

# PRODUCT CATALOG



 **VELVAC**<sup>®</sup>  
*In the Passing Lane Since 1934*

## QUALITY DRIVEN COMPONENTS SINCE 1934



### WHATEVER YOU DRIVE, WE'VE GOT YOU COVERED.

Velvac products support a wide range of medium and heavy duty commercial vehicles, from Class 8 over the road haulers to RVs, buses, fire trucks, ambulances, walk-in vans, refuse and fleet vehicles.

Our mission is to improve driver safety and well being by offering superior products and solutions that fully satisfy our customers needs, making us better, faster and easier to do business with.

Our ability to design and produce cost effective, differentiated vision systems and components to automotive quality and appearance levels sets us apart from other companies in the industry, keeping us... *in the passing lane.*

### HELPFUL HINTS

*Throughout this catalog, there are many useful tips and tricks to assist you in selecting the right products for your vehicle, as well as ensuring that you're compliant with important specifications and regulations.*

**NOTE: Part numbers listed in RED are NEW!**

### THE VELVAC STORY

The Vacuum Power Equipment Company opened for business in 1934, beginning a long tradition of quality manufacturing and focused customer service. In 1940 the corporate name was changed to "Velvac" to encompass its popular *Velvet Vacuum Brakes* brand. Today, our product line has expanded considerably to over 4,500 vehicle components.

As a leading supplier to the heavy truck aftermarket, medium and heavy duty truck OEMs, recreational vehicle and specialty vehicle markets, Velvac continually upgrades and expands its operations. Consistently improving our quality systems helps us exceed our customers' expectations while developing and manufacturing innovative new products that remain in front of an ever-changing market place.

We strive to make doing business with us easy. Experienced, friendly customer and technical solutions personnel team up with knowledgeable sales staff to answer questions and simplify your ordering process. Our B2B website allows customers access to account information 24/7, including order tracking details and order upload capabilities. EDI, data file transfers, advanced ship notices and a host of other services round out the technological support Velvac provides to meet a wide variety of customer requirements.

Velvac is a TS 16949 and ISO 14001 certified, multi-national company with corporate offices and primary warehouse in New Berlin, Wisconsin and a full-line manufacturing and assembly facility in Reynosa, Mexico. Well-stocked remote warehouses strategically located in California, Texas and Ontario, Canada ensure fast delivery of popular items anywhere in North America.



New Berlin headquarters



Reynosa facility

- Founded in 1934
- Leading supplier of heavy truck aftermarket products
- TS 16949 & ISO 14001 certified
- LIKE us on Facebook   
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#### NOTE:

The information and photographs in this catalog are believed to be accurate and factual as of the print date. Velvac assumes no responsibility for information that may be incorrect or has changed since press time. Product specifications and offerings subject to change without notice.

**SMARTER. SAFER. CONNECTED.**

## Road-iQ



### Blind Spot Detection

Change lanes confidently with a camera-based alert system, notifying you of objects in your blind spots.



### 360° Active Safety

Increase driver awareness to help prevent accidents through up to 7 real-time camera views on a tablet or monitor.



### Vehicle Recording

Continuously record all of your trucks' cameras for easy viewing and sharing on an iPad.



### Remote Video Access

Live stream your vehicle cameras from anywhere, via your Road-iQ Fleet Management Portal.



### Vehicle Diagnostics

Specific fault descriptions alert driver and fleet managers of potential vehicle problems.

Visit  
**road-iq.com**  
for more info

**Safer  
Smarter  
Connected**



See V14 for more info on the Road-iQ System



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**OUR PARTS PUT YOU IN THE PASSING LANE**

# MIRRORS

## See clearly.

A combination of quality, styling and performance make Velvac mirrors the benchmark for medium and heavy duty commercial, recreational and specialty vehicles. Our mirrors reduce blind spots and provide clear views of passing lanes, making you a safer, more efficient driver.

- **West coast and mini-LEM mirrors**
- **Blind spot, accessory, chassis mirrors**
- **OEM replacement mirrors**



## ALL MAKES

### West Coast Mirrors

- Velvac's 2010 west coast mirror offers the widest viewing area available!
- Larger glass 2010 mirrors feature over 106 square inch viewing area
- Designed to fit any standard 17½" span loop
- Replaceable ⅛" FSC mirror glass
- 4 amp, temperature-controlled heating element provides quick, even defrosting and prevents mirror glass from overheating
- Polished 300 series stainless steel outer shell and heavy-duty ABS plastic inner housing combine to ensure durability and good looks
- Optional marker light provides additional safety by indicating the widest point of the vehicle to oncoming drivers
- Mounting hardware included



- Remote models also include a momentary motor switch

### Remote 2010 Mirror Features

- Heavy-duty, 1.5 RPM motor for fast, smooth adjustments
- Sealed motor housing for protection against moisture and contaminants
- Automatic slip clutch for manual adjustments without gear damage
- Interchangeable wire harness allows for convenient retrofitting



### Mirrors with 10' Wire Harness and Heater Switch

Left Part #	Right Part #	M/R	Heat	Light
708209	708210	Manual	•	-
708211	708212	Remote	•	-
708369	708368	Remote	•	•

### Mirrors without Harness or Switches

Left Part #	Right Part #	M/R	Heat
708209-4	-	Manual	•
708211-4	708212-4	Remote	•

### Replacement Parts

Part #	Description
709309	Heated glass w/ bezel
709329	Motor
747386	Lighted heater switch
747387	Momentary motor switch
747451	4 Conductor harness, 124"



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## 7" x 16" V-back Mirrors

- Popular V-back design available in three different versions to meet any requirement or price point
- Over 96 square inches of viewing area
- Comes as stainless steel or painted versions, all with 5/16" hardware



### Good

- Cost effective mirror for high replacement application
- Gasket surrounds silvered glass for durability and edge shock protection
- Glass not replaceable
- Standard painted finish
- Plated hardware
- Individually packaged in display box



### Better

- Cost effective version of OEM mirror
- Gasket surrounds silvered glass for durability and edge shock protection
- Front surface chrome glass used on heated mirrors
- Replaceable glass
- Housing is powder coated to meet OEM requirements
- Plated hardware
- Individually packaged in display box



### Best

- Popular replacement mirror for several OE applications
- HD support bands and gasket surround the front surface chrome glass for added strength and durability
- Replaceable glass
- Housing is powder coated to meet OEM requirements
- All stainless steel hardware
- Individually packaged

Part #	Color	Heat
705114	Black	-
705115	Black	•
705116	White	-
705112	Stainless steel	-
705113	Stainless steel	•

Part #	Color	Heat
708001	Black	-
708005	Stainless steel	-
708008	Stainless steel	•

Part #	Color	Heat
708020	White	-
708022	Stainless steel	-
708046	Stainless steel	•

### Flat Glass Kit

Part #	Heat
702044	-
702045	•

### Flat Glass Kit

Part #	Heat
702042	-
702047	•

# MIRRORS

## ALL MAKES

### West Coast Mirrors

- Designed with 1/8" silvered glass and 5/16" - 18 plated hardware. Mounting fasteners are included
- All west coast mirrors are packaged in a display box except the economy angle back mirrors



Angle back round corner - full flat or split glass

Angle back square corner

### Angle Back - Round Corner

Part #	Size	Description	Color	Flat Glass / Convex Glass Area (in <sup>2</sup> )
705333	7" x 16"	Standard glass	Stainless steel	93
705335	7" x 16"	Heated glass	Stainless steel	93
708331	7" x 16"	Heated w/ marker light	Stainless steel	93
705334	7" x 16"	Split glass	Stainless steel	64 Flat / 36 Convex

### Angle Back - Square Corner

Part #	Size	Description	Color	Flat Glass / Convex Glass Area (in <sup>2</sup> )
708526	7" x 16"	Standard glass	Stainless steel	99
708525	7" x 16"	Heated glass	Stainless steel	99
705332	7" x 16"	Heated w/ marker light	Stainless steel	99
705108	6 1/2" x 16"	Heated w/ marker light	Stainless steel	84

### Pillow Back

Part #	Size	Description	Color	Flat Glass / Convex Glass Area (in <sup>2</sup> )
705101	6 1/2" x 16"	Standard glass	Black	81
705102	6 1/2" x 16"	Standard glass	Stainless steel	81
705103	6 1/2" x 16"	Standard glass	White	81



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#### Rib Back

Part #	Size	Description	Color	Flat Glass / Convex Glass Area (in <sup>2</sup> )
705104	6½" x 16"	Standard glass	Black	88
705117	6½" x 16"	Heated glass	Black	88
705105	6½" x 16"	Standard glass	White	88

#### Aluminum Economy Angle Back

Part #	Size	Description	Color	Flat Glass / Convex Glass Area (in <sup>2</sup> )
705038 <sup>1</sup>	6"w x 16"h	Standard glass	Aluminum	94
705107 <sup>1</sup>	6"w x 16"h	Split glass	Aluminum	66 Flat / 21 Convex
705111 <sup>2</sup>	6"w x 16"h	Standard glass	Aluminum	94

#### NOTES

<sup>1</sup> Includes black plastic end caps

<sup>2</sup> Includes heavy duty metal end caps



*Pillow back*



*Rib back*



*Aluminum economy angle back - full flat or split glass*

# MIRRORS

## ALL MAKES

### West Coast Mirrors



Flat Glass Head

Flat Glass Kit

- 5/16-18 UNC Thread both ends

#### Head Size

7 $\frac{1}{4}$ "w x 15 $\frac{7}{8}$ "h x 3"d

#### Accessories

- **Maker Light Kit**

Model 421 | Part # V614210001

#### NOTES

**M/R** Manual / remote

#### Flat Glass Head Head adjustable

Model	Part #	Glass Size	Side	Color	M/R	Heat	Light
438	V514380014	6 $\frac{7}{8}$ "w x 16"h	Right	Stainless	Remote	•	•
438	V514380013	6 $\frac{7}{8}$ "w x 16"h	Left	Stainless	Remote	•	•
438	V514380012	6 $\frac{7}{8}$ "w x 16"h	Right	Stainless	Remote	•	-
438	V514380011	6 $\frac{7}{8}$ "w x 16"h	Left	Stainless	Remote	•	-
438	V514380008	6 $\frac{7}{8}$ "w x 16"h	Right	Stainless	Manual	•	•
438	V514380007	6 $\frac{7}{8}$ "w x 16"h	Left	Stainless	Manual	•	•
438	V514380006	6 $\frac{7}{8}$ "w x 16"h	Right	Stainless	Manual	•	-
438	V514380005	6 $\frac{7}{8}$ "w x 16"h	Left	Stainless	Manual	•	-
438	V514380004	6 $\frac{7}{8}$ "w x 16"h	Right	Stainless	Manual	-	•
438	V514380003	6 $\frac{7}{8}$ "w x 16"h	Left	Stainless	Manual	-	•
438	V514380001	6 $\frac{7}{8}$ "w x 16"h	Both	Stainless	Manual	-	-

#### Flat Glass Kit

Model	Part #	Glass Size	Side	Color	M/R	Heat
438	V154382117	6 $\frac{7}{8}$ "w x 16"h	Both	Black	Remote	•



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### West Coast Mirrors



Actuator

Flat Glass Kit

- 1- 1 $\frac{1}{8}$ " tube

#### Head Size

7 $\frac{5}{16}$ "w x 16 $\frac{3}{8}$ "h x 4 $\frac{5}{8}$ "d

#### Accessories

- **CB Bracket Parts Kit**

Model 409 | Part # V614090029

- **Head Clamp & Screws Kit**

Model 405 | Part # V624059999

**Flat Glass Housing** Head adjustable. Order glass to make complete head

Model	Part #	Glass Size	Side	Color	M/R	Heat	Light
409	V614090024	6 $\frac{3}{4}$ "w x 15 $\frac{7}{8}$ "h	Right	Chrome	Remote	•	-
409	V614090023	6 $\frac{3}{4}$ "w x 15 $\frac{7}{8}$ "h	Left	Chrome	Remote	•	-
409	V614090022	6 $\frac{3}{4}$ "w x 15 $\frac{7}{8}$ "h	Both	Chrome	Manual	•	-
409	V614090021	6 $\frac{3}{4}$ "w x 15 $\frac{7}{8}$ "h	Both	Chrome	Manual	-	-
409	V614090033	6 $\frac{3}{4}$ "w x 15 $\frac{7}{8}$ "h	Right	Black	Remote	•	-
409	V614090032	6 $\frac{3}{4}$ "w x 15 $\frac{7}{8}$ "h	Left	Black	Remote	•	-
409	V614090031	6 $\frac{3}{4}$ "w x 15 $\frac{7}{8}$ "h	Both	Black	Manual	•	-
409	V614090030	6 $\frac{3}{4}$ "w x 15 $\frac{7}{8}$ "h	Both	Black	Manual	-	-
409	V614090028	6 $\frac{3}{4}$ "w x 15 $\frac{7}{8}$ "h	Right	Gray	Remote	•	-
409	V614090027	6 $\frac{3}{4}$ "w x 15 $\frac{7}{8}$ "h	Left	Gray	Remote	•	-
409	V614090026	6 $\frac{3}{4}$ "w x 15 $\frac{7}{8}$ "h	Both	Gray	Manual	•	-
409	V614090025	6 $\frac{3}{4}$ "w x 15 $\frac{7}{8}$ "h	Both	Gray	Manual	-	-

#### Flat Glass Kit

Model	Part #	Glass Size	Side	Color	M/R	Heat
383	V153832107	6 $\frac{3}{4}$ "w x 15 $\frac{7}{8}$ "h	Both	Black	Both	•
383	V153832003	6 $\frac{3}{4}$ "w x 15 $\frac{7}{8}$ "h	Both	Gray	Both	•
383	V153832000	6 $\frac{3}{4}$ "w x 15 $\frac{7}{8}$ "h	Both	Gray	Both	-

#### Flat Mirror Actuators

Model	Part #	Side
409	V084090002	Right
409	V084090001	Left

#### NOTES

**M/R** Manual / remote

# MIRRORS

## ALL MAKES

### West Coast Mirrors



Flat Glass Head

Flat Glass Kit

Mirror Cover

- 1- 1 $\frac{1}{8}$ " tube

#### Head Size

8 $\frac{1}{16}$ "w x 15 $\frac{1}{16}$ "h x 5 $\frac{1}{4}$ "d

#### Accessories

- **Marker Light Kit w/ Bezel**  
Model 427 | Part # V114272001
- **Head Clamp & Screws Kit**  
Model 400 | Part # V614000010

#### NOTES

**M/R** Manual / remote

<sup>1</sup> Chrome backcover with black housing

<sup>2</sup> Chrome backcover with chrome housing

### Flat Glass Head Glass adjustable

Model	Part #	Glass Size	Side	Color	M/R	Heat	Light
427	V514271108 <sup>1</sup>	7 $\frac{1}{4}$ "w x 14 $\frac{1}{4}$ "h	Right	Chrome	Remote	•	•
427	V514271107 <sup>1</sup>	7 $\frac{1}{4}$ "w x 14 $\frac{1}{4}$ "h	Left	Chrome	Remote	•	•
427	V514271008 <sup>1</sup>	7 $\frac{1}{4}$ "w x 14 $\frac{1}{4}$ "h	Right	Chrome	Manual	•	•
427	V514271007 <sup>1</sup>	7 $\frac{1}{4}$ "w x 14 $\frac{1}{4}$ "h	Left	Chrome	Manual	•	•
427	V514271006 <sup>1</sup>	7 $\frac{1}{4}$ "w x 14 $\frac{1}{4}$ "h	Right	Chrome	Manual	-	-
427	V514271005 <sup>1</sup>	7 $\frac{1}{4}$ "w x 14 $\frac{1}{4}$ "h	Left	Chrome	Manual	-	-
427	V514270018 <sup>2</sup>	7 $\frac{1}{4}$ "w x 14 $\frac{1}{4}$ "h	Right	Chrome	Remote	•	•
427	V514270017 <sup>2</sup>	7 $\frac{1}{4}$ "w x 14 $\frac{1}{4}$ "h	Left	Chrome	Remote	•	•
427	V514270016 <sup>2</sup>	7 $\frac{1}{4}$ "w x 14 $\frac{1}{4}$ "h	Right	Chrome	Remote	•	-
427	V514270015 <sup>2</sup>	7 $\frac{1}{4}$ "w x 14 $\frac{1}{4}$ "h	Left	Chrome	Remote	•	-
427	V514270019 <sup>2</sup>	7 $\frac{1}{4}$ "w x 14 $\frac{1}{4}$ "h	Both	Chrome	Manual	-	-
427	V514270104	7 $\frac{1}{4}$ "w x 14 $\frac{1}{4}$ "h	Right	Black	Remote	•	•
427	V514270103	7 $\frac{1}{4}$ "w x 14 $\frac{1}{4}$ "h	Left	Black	Remote	•	•
427	V514270122	7 $\frac{1}{4}$ "w x 14 $\frac{1}{4}$ "h	Right	Black	Remote	•	-
427	V514270121	7 $\frac{1}{4}$ "w x 14 $\frac{1}{4}$ "h	Left	Black	Remote	•	-
427	V514270004	7 $\frac{1}{4}$ "w x 14 $\frac{1}{4}$ "h	Right	Black	Manual	•	•
427	V514270003	7 $\frac{1}{4}$ "w x 14 $\frac{1}{4}$ "h	Left	Black	Manual	•	•
427	V514270014	7 $\frac{1}{4}$ "w x 14 $\frac{1}{4}$ "h	Right	Black	Manual	•	-
427	V514270013	7 $\frac{1}{4}$ "w x 14 $\frac{1}{4}$ "h	Left	Black	Manual	•	-
427	V514270002	7 $\frac{1}{4}$ "w x 14 $\frac{1}{4}$ "h	Right	Black	Manual	-	-
427	V514270001	7 $\frac{1}{4}$ "w x 14 $\frac{1}{4}$ "h	Left	Black	Manual	-	-



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#### Flat Glass Kit

Model	Part #	Glass Size	Side	Color	M/R	Heat
427	V154270011	7¼"w x 14¼"h	Both	Black	Manual / Remote	•
427	V154270010	7¼"w x 14¼"h	Both	Black	Manual / Remote	-
427	V614270004 <sup>3</sup>	7¼"w x 14¼"h	Right	Black	Manual / Remote	•
427	V614270005 <sup>3</sup>	7¼"w x 14¼"h	Left	Black	Manual / Remote	•
427	V614270002 <sup>3</sup>	7¼"w x 14¼"h	Right	Black	Manual / Remote	-
427	V614270003 <sup>3</sup>	7¼"w x 14¼"h	Left	Black	Manual / Remote	-

#### Mirror Cover

Model	Part #	Side	Color	Light
427	V134271009 <sup>4</sup>	Both	Chrome	•
427	V134271008	Both	Chrome	-
427	V614271007 <sup>4, 5</sup>	Both	Chrome	•
427	V134271001 <sup>4</sup>	Both	Black	•
427	V134271000	Both	Black	-
427	V614270006 <sup>4, 5</sup>	Both	Black	•

#### NOTES

<sup>3</sup> Includes housing

<sup>4</sup> Furnished with punched holes

<sup>5</sup> Kit furnished with marker light

#### Flat Mirror Actuator

Model	Part #	Side
427	V084270006	Both

## ALL MAKES

### West Coast Mirrors



Actuator

- Fits 1- 1 1/8" tube

#### Head Size

8 13/16" w x 19" h x 5 1/4" d

#### Accessories

- **Head Clamp & Screws Kit**  
Model 400 | Part # V614000010

#### NOTES

<sup>1</sup> Furnished with heated flat and convex glass

<sup>2</sup> Flat glass only

**M/R** Manual / remote

#### Flat Mirror Actuator

Model	Part #	Side
480	V084803997	Both



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### Blind Spot Convex Mirrors

#### DuraBall® Convex

- Velvac's DuraBall® mirror and pivot system features a HD nylon inner and outer ball with stainless bolt and locking "L" bracket for easy mounting and operation
- Heavy gauge stainless steel or powder coated galvanized steel construction protects mirrors against corrosion
- Rolled edge on 5" and 8½" diameter mirrors - outer gasket on 6" diameter mirrors
- Available in popular 10", 8½", 6" and 5" diameters with several lens options. The 8½" is also available with center mount or offset mount
- DuraBall mirrors guaranteed against shell cracking and breaking for 5 years
- Mirrors other than wide view include mounting "L" bracket or tube bracket, mounting hardware and display box



5" diameter



8½" diameter



8½" diameter



Wide view  
8½" diameter



Wide view  
10" diameter

#### Three Screw and Specialty Convex Mirror

- Three screw ball stud offers secure mounting and easy adjustment
- Available in high luster stainless steel, chrome plated steel or painted steel finishes
- 8½", 7½", 6" and 5" diameters with standard convex and heated options. The 8½" and 7½" are also available either center mount or offset mount
- Includes mounting "L" bracket, mounting hardware and comes in a display box
- 708558 convex features high luster chrome plated stainless steel shell and heavy duty nylon ball stud; bracket not included



7½" diameter



7½" diameter



8½" diameter



8½" diameter  
chrome plated  
stainless

# MIRRORS

## ALL MAKES

### Blind Spot Convex Mirrors

Continued

Description	ROC
10" Wide view	8½"
8½" Wide view	5½"
6" DuraBall	14"
5" DuraBall	10"
All other convex	13"

#### Helpful hint:

Mirror head diameter and ROC (radius of curvature) help determine field of view coverage and image size provided by the convex mirror. Wide view convex mirrors are typically used for front and rear cross view applications where a wide field of view is desired. Standard convex mirrors are used for viewing targeted blind spots or passing lanes around the vehicle



5" and 6" diameter

#### NOTES

<sup>1</sup> For heavy duty nylon ball stud see page M11

<sup>2</sup> Stainless steel tube bracket and clamp kit 723057 also shown on page M128

Plexiglas® is shatter resistant

DuraBall®, Eyeball® and K-10® are registered trademarks of Velvac, Inc. Plexiglas® is a registered trademark of Evonik Industries

Description	DuraBall Convex Lens			Three Screw and Specialty Lens	
	Standard Glass	Heated Glass	Wide View Convex	Standard Glass	Heated Glass
<b>10" Center Mount</b>					
Stainless Steel	-	-	709218 (Plexiglas®)	-	-
Black	-	-	709216	-	-
White	-	-	709217	-	-
Post Office White	-	-	709226	-	-
<b>8½" Center Mount</b>					
Stainless Steel	708441	708453	708448	708501	708559
Black	708442	-	708449	708503	-
White	-	-	708450	-	-
Post Office White	-	-	708463	-	-
Chrome	-	-	-	708556	-
Chrome Plated Stainless	-	-	-	708558 <sup>1</sup>	-
<b>8½" Offset Mount</b>					
Stainless Steel	708444	708457	-	708502	708560
Black	708446	-	-	708504	-
Chrome	-	-	-	708557	-
<b>7½" Center Mount</b>					
Stainless Steel	-	-	-	708508	-
Black	-	-	-	708510	-
Chrome	-	-	-	708554	-
<b>7½" Offset Mount</b>					
Stainless Steel	-	-	-	708509	-
Black	-	-	-	708511	-
Chrome	-	-	-	708555	-
<b>6" Center Mount</b>					
Stainless Steel	708478	-	-	708515	-
Stainless Steel w/ Tube Bracket <sup>2</sup>	708476	-	-	-	-
Black	708479	-	-	708516	-
Chrome	-	-	-	708553	-
<b>5" Center Mount</b>					
Stainless Steel	-	-	-	708520	-
Stainless Steel - Flat Glass	708473	-	-	708514	-
Black	-	-	-	708521	-
Black - Flat Glass	-	-	-	708513	-
Chrome	-	-	-	708552	-
Chrome ABS	-	-	-	708551	-



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### Standard K-10 Convex Lens

#### Convex Glass Head

Part #	Color	Diameter	ROC
708602	Stainless steel	10"	13"
708615	Black ABS	10"	13"
708601	Stainless steel - center mount	8.5"	13"
708609	Stainless steel - offset mount	8.5"	13"

#### Convex Glass Kit

Part #	Diameter	ROC
702149	10"	13"
702148	8.5"	13"

### Eyeball Convex Lens

#### Convex Glass Head

Part #	Color	Diameter	ROC
708605	Stainless steel	10"	8.5"
708604	Black ABS	10"	8.5"
708608	Stainless steel	8.5"	5.5"
708610	Black ABS	8.5"	5.5"
708606	Black	8.5"	5.5"
708603	Black ABS	6"	5.5"

#### Convex Glass Kit

Part #	Diameter	ROC
702159	10"	8.5"
702158	8.5"	5.5"

### 8" Polypropylene Convex Mirrors

Part #	Color
723103	Post Office White
723104	Black

#### NOTES

For replaceable front crossview for USPS LLV and CRV, see page M122

### Blind Spot Convex Mirrors



Back view  
Eyeball convex

- Provides outstanding views of troublesome and dangerous blind spots around the vehicle
- Choose from 10", 8½" and 6" diameter in stainless steel, powder coat steel or ABS plastic with standard K-10 convex and Eyeball® convex lens options
- HD inner and outer nylon ball stud with stainless steel mounting hardware for durable, smooth and long lasting operation
- Use as a supplement to west coast mirrors, side blind spots or front and rear cross view applications
- Heavy duty outer gasket protects mirrors from edge shock and allows mirror lens to be easily replaced



8"  
Polypropylene  
convex mirror

- 12" radius of curvature
- Light weight one piece non-corrosive plastic shell
- Adjustable stud mount ball socket
- 5/16" mounting hardware included

## ALL MAKES

### Convex Mirror Heads



Convex Glass Kit



Convex Mirror Cover

- Fits 1- 1 $\frac{1}{8}$ " tube

#### Convex Head Size

8"w x 7 $\frac{1}{16}$ "h x 5 $\frac{3}{8}$ "d

#### Accessories

- **Head Clamp & Screws Kit**  
Model 400 | Part # V614000010

#### NOTES

**M/R** Manual / remote

### Convex Glass Housing Glass adjustable. Order glass to make complete head

Model	Part #	Glass Size	Side	Color	M/R	Heat	Light
458	V144580001	7 $\frac{3}{4}$ "w x 7 $\frac{3}{8}$ "h	Both	Black	Manual	-	-

### Convex Glass Kit

Model	Part #	Glass Size	Side	Color	M/R	Heat
458	V154580003	7 $\frac{3}{4}$ "w x 7 $\frac{3}{8}$ "h	Both	Black	Manual	-

### Convex Mirror Cover

Model	Part #	Side	Color	Light
458	V134580001	Both	Black	-



- Fits  $\frac{9}{16}$  -  $\frac{3}{4}$ " tube

#### Convex Head Size

7 $\frac{7}{8}$ "w x 6 $\frac{1}{8}$ "h x 3 $\frac{3}{4}$ "d

#### NOTES

**M/R** Manual / remote

### Convex Glass Head Head adjustable

Model	Part #	Glass Size	Side	Color	M/R	Heat	Light
260	V562601127	7 $\frac{1}{2}$ "w x 5 $\frac{5}{8}$ "h	Both	Black	Manual	-	-



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**ALL MAKES**

## Convex Mirror Heads



*Convex Glass Head*

*Convex Glass Kit*

- Fits 1- 1 1/8" tube

### Convex Head Size

7 1/4" w x 7 1/4" h x 3" d

### NOTES

**M/R** Manual / remote

### Convex Glass Head *Head adjustable*

Model	Part #	Glass Size	Side	Color	M/R	Heat	Light
388	V563882218	6 3/4" w x 6 3/4" h	Both	Chrome	Manual	•	-
388	V563882208	6 3/4" w x 6 3/4" h	Both	Chrome	Manual	-	-

### Convex Glass Kit

Model	Part #	Glass Size	Side	Color	M/R	Heat
388	V153882117	6 3/4" w x 6 3/4" h	Both	Black	Manual	•
388	V153882213	6 3/4" w x 6 3/4" h	Both	Gray	Manual	•

## ALL MAKES

### Convex Mirror Heads



Convex Glass Kit



Head Clamp & Screw Kit

- Fits 1- 1 1/8" tube

#### Convex Head Size

7 1/4" w x 7 1/4" h x 5 1/8" d

#### Accessories

- **Mirror Head Clamp**  
Model 387 | Part # V113870510B
- **Head Clamp & Screws Kit**  
Model 405 | Part # V624059999

#### NOTES

**M/R** Manual / remote

### Convex Glass Housing Head adjustable. Order glass to make complete head

Model	Part #	Glass Size	Side	Color	M/R	Heat	Light
409	V614090018	6 3/4" w x 6 3/4" h	Both	Chrome	Manual	•	-
409	V614090017	6 3/4" w x 6 3/4" h	Both	Chrome	Manual	-	-
409	V614090035	6 3/4" w x 6 3/4" h	Both	Black	Manual	•	-
409	V614090034	6 3/4" w x 6 3/4" h	Both	Black	Manual	-	-
409	V614090020	6 3/4" w x 6 3/4" h	Both	Gray	Manual	•	-
409	V614090019	6 3/4" w x 6 3/4" h	Both	Gray	Manual	-	-

### Convex Glass Kit

Model	Part #	Glass Size	Side	Color	M/R	Heat
388	V153882117	6 3/4" w x 6 3/4" h	Both	Black	Manual	•
388	V153882120	6 3/4" w x 6 3/4" h	Both	Black	Manual	-
388	V153882213	6 3/4" w x 6 3/4" h	Both	Gray	Manual	•
388	V153882210	6 3/4" w x 6 3/4" h	Both	Gray	Manual	-



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### Convex Mirror Heads



Convex Glass Head

Convex Mirror Cover

- Fits 1- 1 1/8" tube

#### Convex Head Size

8 7/16" w x 6 5/8" h x 4 1/2" d

#### Accessories

- **Head Clamp & Screws Kit**  
Model 400 | Part # V614000010

#### NOTES

**M/R** Manual / remote

<sup>1</sup> Chrome backcover with black housing

<sup>2</sup> Chrome backcover with chrome housing

<sup>3</sup> Furnished with turn signal

<sup>4</sup> Includes housing

### Convex Glass Head *Glass adjustable*

Model	Part #	Glass Size	Side	Color	M/R	Heat	Light
428	V564281005 <sup>1</sup>	7 3/4" w x 5 3/4" h	Both	Chrome	Manual	-	-
428	V564281014 <sup>2</sup>	7 3/4" w x 5 3/4" h	Both	Chrome	Manual	•	-
428	V564281015 <sup>2, 3</sup>	7 3/4" w x 5 3/4" h	Both	Chrome	Manual	•	-
428	V564281013 <sup>2</sup>	7 3/4" w x 5 3/4" h	Both	Chrome	Manual	-	-
428	V564281002	7 3/4" w x 5 3/4" h	Both	Black	Manual	•	-
428	V564281001	7 3/4" w x 5 3/4" h	Both	Black	Manual	-	-

### Convex Glass Kit

Model	Part #	Glass Size	Side	Color	M/R	Heat
428	V154280002	7 3/4" w x 5 3/4" h	Both	Black	Manual	•
428	V154280003 <sup>3</sup>	7 3/4" w x 5 3/4" h	Both	Black	Manual	•
428	V154280001	7 3/4" w x 5 3/4" h	Both	Black	Manual	-
428	V614280008 <sup>4</sup>	7 3/4" w x 5 3/4" h	Both	Black	Manual	-

### Convex Mirror Cover

Model	Part #	Side	Color	Light
428	V134281015	Both	Chrome	-
428	V134281011	Both	Black	-

# MIRRORS

## ALL MAKES

### Accessory Mirrors

#### Over Door Convex Mirror



- Mounts above exterior passenger side window for greater blind spot visibility
- Used as an accessory mirror on heavy trucks for better viewing directly below "peek-a-boo" window
- 4" x 8" convex mirror, 12" ROC
- Assembly includes stainless steel mirror head with mounting bracket

Part #	Description
715198	Over door convex mirror

#### Long Arm Over Door Convex Mirror



- Over 1" longer than standard over door mirrors
- All stainless steel construction and hardware

Part #	Description
716872	Over door convex mirror

#### Interior Rearview Mirror



- Glass measures 9"w x 2"h
- Day/night feature reduces night driving glare
- Dual ball joint adjustment
- Textured black housing
- Mounting pad and adhesive sold separately as mirror mounting kit
- Rear view mirror will fit on flange type mounting pads up to .90" wide

Part #	Description
723095	Rear view mirror
723097	Mirror mounting kit

#### Universal Strap-On/Off Mirror



- Universal design fits either driver or passenger side mirrors on most vehicles
- Durable black mirror quickly and securely straps to existing mirror for extended view around wide loads
- No tools required

Part #	Description
715203	Strap-on towing mirror 5" x 7½" mirror head

The Wedge™ is a trademark of Velvac, Inc

#### 7½" X 10½" Center Bracket Flat Glass Mirror Heads



- Over 63 sq. in. viewing area
- ⅛" FSC glass
- Rolled edge design holds glass and gasket securely in place
- Mirror glass not replaceable

Part #	Description
709002	Stainless steel
709006	Stainless / heated
709275	Flat black
709276	White

#### HHR Spotter Mirror



- Reduce blind spots on GM HHR
- Mounts directly to OE side mirrors\*
- Lower portion of flat glass is open for passing lane viewing
- Size is approx 2½" x 3¼" with 7.3 sq. in. viewing area and 8½" ROC

Part #	Description
718394-5	Pair - right & left side

\* Other applications include van, pickup and SUV mirrors



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### Accessory Mirrors

#### The Wedge™ Stick-On Convex Mirror



- Unique wedge design provides more usable viewing area/larger image size than conventional stick on mirrors
- Universal design permits use on both driver and passenger mirrors
- Black plastic shell with rounded corners gives mirror a "built-in" look
- 3¼" overall size with 8½ ROC
- Mounts easily and securely using attached adhesive pad

Part #	Description
723068	Wedge stick-on mirror
723068-6	50 Pack wedge mirror

#### Stick-On Convex Spot Mirrors



- Lightweight aluminum shell
- Mount easily and securely using attached adhesive pad
- Attractive packaging displays easily on pegboards or wire display racks (See Retail section for wire display rack Part No. 091256)

Part #	Description	ROC
723050	2" Round	4½"
723060	3" Round	4½"
723065	3¾" Round	4½"
723075	4" x 5½" Rectangle	8½"

#### Convex Fork Lift Mirror



- Mirror used on many OEM fork lift applications
- 4½"w x 7½"h overall size
- Acrylic spherical convex lens provides wide view and resists cracking or breaking
- Durable black textured ABS mirror back with black PVC outer gasket
- ⅜" plated mounting stud, nut and washer
- Individually boxed

Part #	Description
708611	Convex fork lift mirror

#### Convex Look Down Mirror



Convex Glass Kit

#### Bracket Mount Convex Head Size

11⅜"w x 6⅞"h x 2⅞"d

#### Bracket Hole Location

Width Between Holes: 3⅛"

Hole Size: 1¼"

#### NOTES

**M/R** Manual / remote

<sup>1</sup> Furnished with black arm, chrome back cover, black bezel and black holder

<sup>2</sup> Furnished with black arm, black back cover, black bezel and black holder

<sup>3</sup> Includes bezel

#### Convex Look Down Mirror

Model	Part #	Glass Size	Color	M/R	Heat	Light
360	V593605228 <sup>1</sup>	10⅝"w x 6¼"h	Chrome	Manual	-	-
360	V593601152 <sup>2</sup>	10⅝"w x 6¼"h	Black	Manual	-	-

#### Convex Glass Kit

Model	Part #	Glass Size	Side	Color	M/R	Heat
360	V613600001 <sup>3</sup>	10⅝"w x 6¼"h	Both	Black	Manual	-

## ALL MAKES

### Wide Angle Mirrors

#### Stud Mount Mirror Heads



- Center mount wide angle mirror heads feature Velvac's DuraBall nylon ball stud for superior strength and durability (see page M11 for DuraBall information)
- 5/16" - 18 mounting stud. Use with mounting clamp 704068 on page M131
- 1/8" replaceable FSC glass on flat glass models; 1/8" silvered glass on convex glass

#### 6 1/2" x 6" Convex Glass

- Viewing area 32 sq. in.
- 21" ROC



#### 6 1/2" x 10" Flat Glass

- Viewing area 55 sq. in.



#### Shatter Resistant 6 1/2" x 10" Convex Glass

- Viewing area 55 sq. in.
- 40" ROC; shatter resistant backing on glass



Color	6 1/2" x 6" Convex Glass			6 1/2" x 10" Flat Glass			Shatter Resistant 6 1/2" x 10" Convex Glass		
	Part #	Glass #	Gasket #	Part #	Glass #	Gasket #	Part #	Glass #	Gasket #
Stainless	708156	702023	703006	708181	702076	703008	708198-5	702098-5	703008
White	-	-	-	-	-	-	708176-5	702098-5	703007
Ford White	704280	702023	703005	704268	702076	703007	-	-	-
Black	-	-	-	-	-	-	708197-5	702098-5	703008



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### Wide Angle Mirrors

#### Side Mount Angle Mirror Heads



#### 6½" x 6" Flat Glass

- Viewing area 32 sq. in.



#### 6½" x 6" Convex Glass

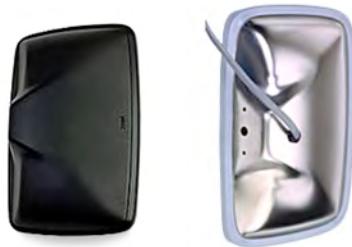
- Viewing area 32 sq. in.
- 21" ROC



- The original Velvac wide angle mirror head is used on walk-in van, cutaway van, cab chassis and a variety of other applications
- 5/16" - 18 threaded mounting port for a clean, easy installation. Use with mounting clamp 704068 on page M131
- 1/8" replaceable FSC glass on all flat glass models except UPS brown which is silvered. All convex glass is silvered glass

#### 6½" x 10" Flat Glass

- Viewing area 55 sq. in.



	6½" x 6" Flat Glass			6½" x 10" Flat Glass			6½" x 6" Convex		
Color	Part #	Glass #	Gasket #	Part #	Glass #	Gasket #	Part #	Glass #	Gasket #
<b>Steel</b>									
Stainless	704093	702051	703005	704091	702076	703007	704095	702023	703005
Stainless <sup>1</sup>	-	-	-	704325	702076	703007	704315	704335	703005
White	704078	702051	703005	704032	702076	703007	704077	702023	703005
<b>Plastic</b>									
White	704178-5	702051	703101	704132-5	702076	703102	704177-5	702057	703101
PO White	-	-	-	704122	702076	703102	704120	704121	703101
UPS Brown	704158	702051	703103	704154	702076	703104	704155	702057	703103
Black	704159	-	703103	704152-5	702076	703104	704153-5	702057	703103

NOTES  
<sup>1</sup> Heated

# MIRRORS

## ALL MAKES

### Class A RV, Bus and Truck Mirrors

- Velvac's line of side mount and corner mount mirrors are designed with a focus on safety, quality and styling. Typical applications include Class A motorhomes, motorcoach, fire truck and rescue vehicles. Produced from high quality materials, these mirrors can be configured to meet specific customer and application requirements

#### Available Features/Options

- Deluxe, V-MAX™ or V-MAX III™ mirror heads
- Top Hat™ add-on convex for Deluxe head
- Chrome plated or powder coated finish

- Easily replaceable manual or heated remote glass
- Lower marker lamp on arm or signal arrow in the flat glass
- Lower LEM camera with LED marker lamp

#### Model 2025 Mirror System

- Mirror system mounts to the flat side of the vehicle, allowing the mirror to be viewed through the side window



Shown with Deluxe head

#### Revolution™ Mirror System

- Mirror base pivot system mounts to flat side of vehicle and allows mirror to be folded forward or back for vehicle storage



Shown with V-MAX™ head

#### Model 2030 Mirror System

- Corner mounting base available with 9", 10", 11", 12" or 15" radius. Contact Velvac for custom applications
- Mirror arm lengths available from 10", 12", 14" or 17". This allows mirrors to be viewed through the windshield or side windows



Shown with Deluxe head and add-on Top Hat™ convex

#### Top Hat Add-On Convex Mirror

Part #	Color
715372	Black
715373	White
715374	Chrome

- Installs easily on top of Deluxe head for added visibility of blind spots or other vision targets
- Fits on either driver side or passenger side mirror



Deluxe Revolution™, V-Max™, V-MaxIII™ and Top Hat™ are trademarks of Velvac, Inc.

#### NOTES

Top Hat fits either driver side or passenger side  
All heads shown are heated remote flat glass

Camera not included with replacement LEM heads  
See RV make/model information at [www.velvac.com](http://www.velvac.com) by clicking Where to Buy / Order RV Mirrors



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**ALL MAKES**

## Class A RV, Bus and Truck Mirrors

### Mirror Heads



Mirror Head	Flat Glass		Lower Convex Glass			Upper Convex Glass		
	Square Inch	Size	Square Inch	Size	Radius	Square Inch	Size	Radius
Deluxe	62.3	8" x 8"	30	8" x 4"	12"	N/A	N/A	N/A
V-MAX	98.7	8" x 13"	30	8" x 4"	21"	N/A	N/A	N/A
V-MAX III	72.5	8" x 9"	30	8" x 4"	21"	26.4	8" x 3.3"	21"
Top Hat	N/A	N/A	N/A	N/A	N/A	17.8	6" x 3.5"	12.5"

### Mirror Heads

Color	Side	Deluxe	V-MAX	V-MAX III	V-MAX LEM	V-MAX LEM	V-MAX III LEM
					2025 Base	2030 Base	2030 Base
White	Right	714590	714946	-	-	-	-
White	Left	714589	714947	-	-	-	-
Black	Right	714582	714944	717192	716208	716190	716154
Black	Left	714581	714945	717193	716207	716189	716155
Chrome	Right	714608	714942	717180	716206	716188	716152
Chrome	Left	714607	714943	717179	716205	716187	716153

### Glass Kits

Description	Deluxe	V-MAX	V-MAX III	V-MAX LEM	V-MAX LEM	V-MAX III LEM
				2025 Base	2030 Base	2030 Base
Heated flat right or left	709448	709450	709732	709450	709450	709732
Heated flat with blinker RS	709674	709624	709702	709624	709624	709702
Heated flat with blinker LS	709673	709623	709701	709623	709623	709701
Lower convex RS/LS	709449	709650	709650	709650	709650	709650
Upper convex glass	-	-	709733	-	-	709733
Lower convex housing RS/LS	709589	709651	709651	709651	709651	709651

#### NOTES

**RS** Right side

**LS** Left side

## ALL MAKES

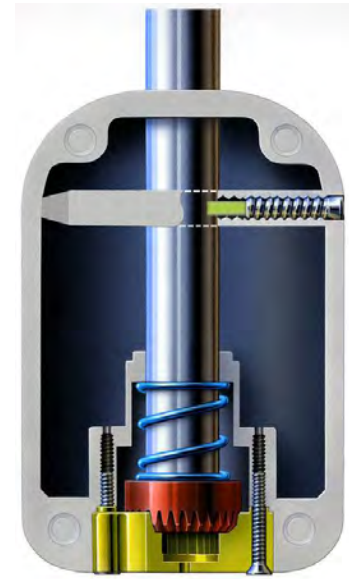
### Hood Mount Mirrors

#### Velvac's Mod Pod™ and K-10 Version-2 Hood Mount Assemblies

**Helpful hint:**

The popular Velvac Mod Pod and K-10 Version-2 (V-2) mirror systems incorporate a lock down feature that offers superior stability and easy adjustments. To position the mirror, simply loosen the set screw with a 5/32" allen wrench, lift and rotate the mirror arm into proper viewing or fold back position then retighten the set screw. Precision gears set at 12 degree intervals ensures a perfect view every time!

- Aerodynamic design features corrosion resistant stainless steel tubing brackets with chrome-plated die cast mounting base for long lasting attractive appearance
- (4) 1/4" - 20 mounting studs are factory assembled to the base for easy installation on either conventional or COE trucks
- Velvac Mod Pod mirror kits features Velvac's 8 1/2" DuraBall with nylon ball joint system, guaranteed for five years against cracking or breaking (see page M11 and M12 for details)
- K-10 V-2 mirror kits feature an 8 1/2" Eyeball convex mirror (see page M13 for details)



Mod Pod™ is a trademark of Velvac, Inc

	Velvac			K-10		
	Bracket Only #	Kit w/ 8 1/2" DuraBall Convex #	Kit w/ 8 1/2" DuraBall Wide View #	Bracket Only #	Kit w/ 8 1/2" Eyeball Mirror #	Kit w/ 8 1/2" K-10 Convex #
<b>Universal Adjustable</b>						
Kit with Bent & Straight Arms	714622	714620	714621	-	-	-
Kit with Straight Arm Only	-	-	-	714646	-	-
Kit with Bent Arm Only	-	-	-	714647	716915	716914
<b>Fixed Arm Dual View</b>						
Right Side	714630	714626	714628	714648	716913	-
Left Side	714631	714627	714629	715529	716922	-
<b>Fixed Arm Side View</b>						
Lane Change	714625	714623	714624	-	-	-
K-10 Slant Arm	-	-	-	714649	716917	716916
K-10 Angle Arm	-	-	-	715620	716919	716918



Bent arm



Straight arm



Fixed arm dual view



Lane change



Slant arm



Angle arm



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### Hood Mount Mirrors

- Velvac offers a full line of standard and short arm adjustable tripod mirror models to meet the needs of any vehicle or application

#### Aero-Bell™ Tripod

- Stylized single piece chrome plated ABS bells and molded nylon clamps help conceal hardware, giving the mirror a clean, aerodynamic appearance
- Corrosion resistant materials eliminate rust

#### Velvac Tripod

- All stainless steel construction and hardware
- Standard tripod for use on traditional hood styles; use short tripod for slope nosed vehicles with shorter hoods

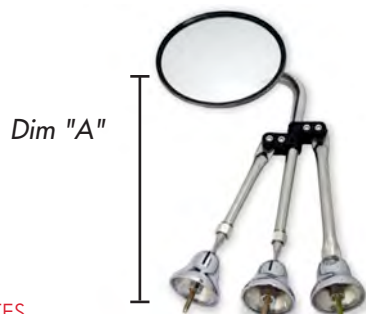
#### Value Tripod

- All stainless steel construction with plated hardware
- Adjustable tripod fits most hood / fender applications

	Aero-Bell Tripod	Velvac Tripod	Value Tripod
Tubing Braces	Stainless steel	Stainless steel	Stainless steel
Convex Mirror Head	8½" Stainless steel DuraBall	8½" Stainless steel DuraBall	8½" Stainless steel three screw
Mounting Bells	Molded/chrome plate ABS	Stainless steel	Stainless steel
Tube Clamps	Molded black nylon	Stainless steel	Stainless steel
Hardware	Stainless steel	Stainless steel	Plated
Packaging	Display box	Display box	Plain box

Standard Tripod	Aero-Bell Tripod		Velvac Tripod		Value Tripod	
	Part #	Dim "A"	Part #	Dim "A"	Part #	Dim "A"
Mirror & Bracket Kit	715150	21" to 32¾"	713444	21" to 32¾"	715779	26" to 35"
Bracket Only	-	-	713445	-	715778	-
Short Tripod						
Mirror & Bracket Kit	715148	17½" to 24½"	714721	17½" to 24½"	717845	17½" to 26"
Bracket Only	-	-	714720	-	717844	-

Aero-Bell™ is a trademark of Velvac, Inc



**NOTES**  
See Make section of this catalog for specific applications



Aero-Bell tripod



Velvac tripod

## ALL MAKES

### Hood Mount Mirrors

#### Velvac's LaneOptics Hood Mount Mirrors

- Two new hood mounted blind spot mirrors now available from Velvac



LaneOptics Mirror

LaneOptics MirrorCam

#### LaneOptics Mirror

Our new stylized aerodynamic convex mirror system combines the look and quality of a proprietary OEM hood mirror, with a universal mounting base that allows the mirror to be installed on almost any truck hood. The head can be rotated to mount to either the right or left side of the vehicle.

- Glass size – 50 square inches, 17" ROC



#### LaneOptics MirrorCam

Combines the LaneOptics mirror with an integrated color camera for blind spot visibility and ability to record events \*\*

- Glass size – 50 square inches - 17" ROC
- 73.7° FOV camera provides clear color images of passing lanes and side blind spots
- Camera angle is pre-positioned – simply adjust the mirror head to the proper viewing angle and camera is automatically oriented
- Includes five pin (B) type cable connector



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### Hood Mount Mirrors

#### Mirror

- Molded black, OEM approved ABS mirror housing – overall head size is 9" x 7"
- 1" O.D. stainless steel tubing arms – two lengths available for proper mirror positioning
- Black powder coated four stud universal mounting base uses same hole pattern as Velvac Pod or Mod Pod mirrors. Mounts to almost any truck hood for easy installation or retrofit
- Universal mounting hardware correctly orients mirror on the hood

Part #	Application	Arm	Side
720306	Universal	Short	Both
720308	T700	Short	Both
720310	Universal	Long	Both

#### MirrorCam

Left Side#	Right Side #	Application	Arm	Connector
720301	720300	Universal	Short	5 pin
720303	720302	T700	Short	5 pin
720305	720304	Universal	Long	5 pin

#### MODELS THAT REQUIRE LONG ARMS

Kenworth T300, T370, T660, T270

Mack CV713, CXN613

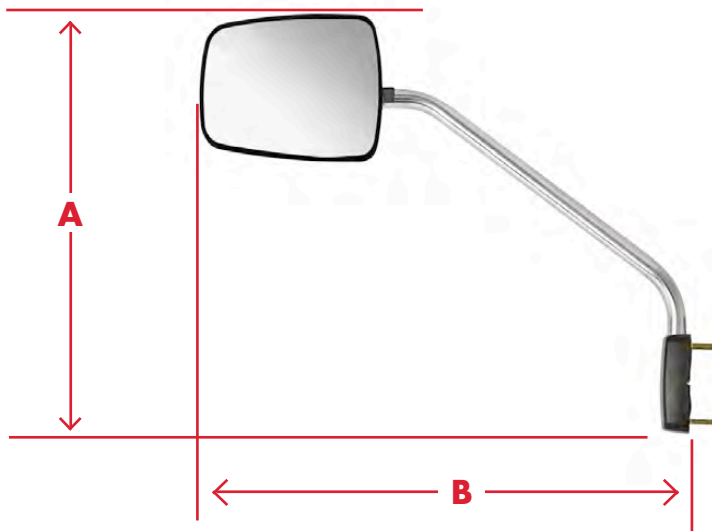
International 4300, 4400, 9200i, 4200 BX, 4300BX

Freightliner M2 106, 9335, C9218, 9336

Sterling AT9513

Hino 258ALP

Description	Dim A	Dim B
Long Arm	21.81"	31.16"
Short Arm	19.81"	25.15"



#### NOTES

\*\* Camera can be used in conjunction with any B connector monitor shown on page V6. For recording, contact us for more information on our Road IQ Video Data Server.

**NOTE: Part numbers listed in RED are NEW!**

# MIRRORS

## ALL MAKES

### Hood Mount Mirrors



Fender Bracket Assembly

Convex Glass Head

- Fender Mount

#### Side Support Range

11<sup>7</sup>/<sub>16</sub>" to 15<sup>5</sup>/<sub>16</sub>"

#### Main Support Range

17<sup>3</sup>/<sub>4</sub>" to 26<sup>3</sup>/<sub>8</sub>"

#### NOTES

**M/R** Manual / remote

See Make section of this catalog for specific applications

<sup>1</sup> Convex spot mirror with tripod assembly, fender mount

<sup>2</sup> Mirror only, fender mount

### Fender Bracket Assembly

Model	Part #	Side	Color	Material	Heat
445	V594450100 <sup>1</sup>	Both	Stainless	Stainless	-

### Convex Glass Head

Model	Part #	Glass Size	Side	Color	M/R	Heat	Light
445	V564450350 <sup>2</sup>	8"	Both	Stainless	Manual	-	-

### Rear Cross View Mirror Systems

#### RVX™/Corner Rotator



- Designed to easily mount to structural rear corner of walk-in van or high cube bodies. Fits on 90° corner with up to 1<sup>1</sup>/<sub>2</sub>" radius

- Includes factory assembled spring loaded bracket with Velvac 10" wide view or K-10 Eyeball convex mirror head
- Mirrors are designed to fold away and rotate

Kit #	Bracket Only #	Color	Head	Rear Door Style
715213	-	White	Velvac	A, B or C
715212	-	Stainless steel	Velvac	A, B or C
716901	714403	Stainless steel	K-10	A, B or C
716900	714403	Stainless steel w/ black ABS head	K-10	A, B or C

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### Rear Cross View Mirror Systems

#### Walk-In Van Bodies

Kit #	Bracket Only #	Color	Head	Rear Door Style	Panel Mount
712644	712642	White	Velvac	A or C	Rear standard
712643	712641	Stainless steel	Velvac	A or C	Rear standard
716906	712647	Stainless steel	K-10	A or C	Rear standard
716907	713752	Stainless steel	K-10	A or C	Rear breakaway
716903	715101	Stainless steel	K-10	D	Side
716902	715101	Stainless steel w/ black ABS	K-10	D	Side

#### Rear Van Door Styles



Roll-up narrow



Roll-up full



Hinged narrow



Hinged full

#### Panel Mount Styles



Rear standard



Rear breakaway



Side mount

- Universal mounting bracket fits walk-in vans and vehicles with flat mounting surfaces
- Kits include mirror head, reinforced 3/4" O.D. tubing arm, heavy-duty mounting brackets and stainless steel hardware
- Assemblies include either a 10" Velvac wide view convex or a 10" K-10 Eyeball roll-up narrow convex mirror



#### Straight Van Chassis

Kit #	Bracket Only #	Color	Head
712640	712638	Stainless steel	Velvac

#### Vehicle:

Dodge and older GM and Ford Vans

- Kits include mirror head, bracket and stainless steel mounting hardware
- Assembly includes a Velvac 8 1/2" wide view convex

#### NOTES

See Make section of this catalog for specific applications

## ALL MAKES

### Walk-In Van Mirrors

- Universal mirrors include an adjustable loop mounting bracket that will fit most walk-in van applications
- Fixed custom mirrors include a fixed loop bracket for specific mounting applications
- All mirrors include 6½" w x 10" h upper flat glass head and 6½" w x 6" h lower convex



Fixed custom



Universal adjustable loop

Part #	Application	Description	Color	Mounting Centers	Loop Leg Length
<b>Universal</b>					
721090	Various	Complete pair	Stainless steel	22" to 36.5"	8"
721092	Various	Loop and brackets	Stainless steel	22" to 36.5"	8"
<b>Fixed Custom</b>					
712323	Grumman (Morgan) Utilimaster	Complete pair	Stainless steel	30.57"	10.5"
713404	Utilimaster	Complete pair	Stainless steel	33.33"	11.69"
724007	Various	Complete pair	Stainless steel	30.37"	10.42"
724008	Various	Complete pair	Stainless steel	33"	8"
727067	Various	Complete pair	Stainless steel	33"	8"

### Van and Cab Chassis Mirrors

#### Universal Low Mount Mirror System and Accessories

- Low mount mirror kit includes stainless steel bracket system, solid stainless steel elbow and 7½" x 10½" mirror head
- Wide angle conversion kit includes 6½" x 6" convex and stainless steel tube support for blind spot viewing
- Mirror heads provide over 63 square inches of flat viewing area (See page M18 for more information)



Low mount mirror kit



712245

Part #	Description	Color
712479	Low mount mirror kit: bracket, head elbow - pair	Stainless steel
748216	Replacement elbow	Stainless steel
712245	Wide angle conversion kit - one side	Stainless steel



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### Truck and Tractor Mirrors

- Versatile head and loop assembly for flat side mounting on fire trucks and other specialty vehicles
- Bracket mounting span of 31 1/2" x 8.18" from body leg length
- All stainless steel construction with preset pivot breakaway system

Part #	Description	Color	Upper Head	Lower Head
713760	Complete pair	Stainless steel	8" x 16" Remote heated west coast mirror	6 1/2" x 6" Convex
713769	Complete pair	Stainless steel	7" x 16" OE V-back west coast mirror	6 1/2" x 6" Convex
713759	Replacement loop bracket, mounting feet and hardware	Stainless steel	N/A	N/A

#### NOTES

See page M2 for more information on remote mirror head

See page M3 for OE V-back West Coast



West coast <sup>2</sup>

Split head <sup>1</sup>

- All kits shown below are packaged as pairs. Loop and clamp kits include both short clamps for use with split wide angle heads and long clamps for west coast heads



Conventional tractor bracket kit

### Universal Bracket Kit and Head/Loop System

- Universal stainless steel bracket kit is fully adjustable to fit a variety of conventional straight truck and tractor doors; it extends out a maximum of 20" from door
- Use head and loop assemblies in combination with universal bracket kit to produce a complete major system for conventional truck and tractors; loop span is 17.56"

Part #	Description	Color	Upper Head	Lower Head
700064	Universal conventional tractor bracket kit	Stainless steel	N/A	N/A
701001	Head and loop - split head	White	6 1/2" x 10"	6 1/2" x 6"
701006	Head and loop - split head	Stainless steel	6 1/2" x 10"	6 1/2" x 6"
701050	Head and loop - west coast	White	7" x 16"	N/A
701054	Head and loop - west coast	Stainless steel	7" x 16"	N/A
701071	Loop and clamp kit	White	N/A	N/A
701072	Loop and clamp kit	Stainless steel	N/A	N/A

#### NOTES

<sup>1</sup> See page M20 and M21 for replacement mirror heads

<sup>2</sup> See page M4 and M5 for replacement mirror heads

## CATERPILLAR

461 System | CT660



Actuator

### Vehicle:

CT660 (2011-Present)

- Fits 1 1/8" tube

### Head Size

8 1/8" w x 20 5/16" h x 5" d

### NOTES

<sup>1</sup> Furnished with cable assembly without turn signal

<sup>2</sup> Furnished with cable assembly for turn signal

Bracket, head and glass not available.  
Contact OE to purchase.

### Flat Mirror Actuators

Model	Part #	O.E.M.	Side
461	V614610002 <sup>1</sup>	2609911C91	Both
461	V614610003 <sup>2</sup>	2609912C91	Both



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Cyclone® & Typhoon® Aerials, Custom Chassis, Custom Pumps, Rescue  
| **407 System**



Flat Glass Head



2-Mirror Switch



Actuator

### Vehicle:

Cyclone® & Typhoon® Aerials,  
Custom Chassis, Custom Pumps,  
Rescue (2004-Present)

- Fits 1-1½" tube

### Head Size

8⅞" w x 15⅞" h x 5¼" d

### Accessories

- **Marker Light Kit w/ Bezel**  
Model 427 | Part # V114272001
- **Head Clamp & Screws Kit**  
Model 400 | Part # V614000010
- **2-Mirror Switch**  
Part # V083200233  
(OEM 687993)

### NOTES

**M/R** Manual / remote

<sup>1</sup> Furnished with wiring harness for flat remote, flat/convex heat, marker light and turn signal

<sup>2</sup> Chrome backcover with chrome housing

- For Commercial Pumps, Tankers, Emax, Tradition™, Watermaster™ and Rescue consult specific make/model section of this catalog.

### Side Mount Bracket

Model	Part #	Dimension "A"	Dimension "B"	Side	Color	Material
407	V584070500 <sup>1</sup>	31¾"	8⅞"	Both	Stainless	Stainless

- Dimension A: Distance between upper and lower bracket holder mounting holes
- Dimension B: Distance between the outside edge of the mirror bracket and the mounting surface

### Flat Glass Head *Glass adjustable*

Model	Part #	Glass Size	Side	Color	M/R	Heat	Light
427	V514270018 <sup>2</sup>	7¼" w x 14¼" h	Right	Chrome	Remote	•	•
427	V514270017 <sup>2</sup>	7¼" w x 14¼" h	Left	Chrome	Remote	•	•

### Flat Glass Kit

Model	Part #	O.E.M.	Glass Size	Side	Color	M/R	Heat
427	V154270011	687992003	7½" w x 14¼" h	Both	Black	Both	•

## E-ONE

### 407 System

Continued

#### Mirror Cover

Model	Part #	Side	Color	Light
427	V134271009 <sup>3</sup>	Both	Chrome	•
427	V614271007 <sup>3,4</sup>	Both	Chrome	•

#### Convex Glass Head *Glass adjustable*

Model	Part #	Glass Size	Side	Color	M/R	Heat	Light
428	V564281015 <sup>5,6</sup>	7 <sup>3</sup> / <sub>4</sub> " x 5 <sup>3</sup> / <sub>4</sub> "	Both	Chrome	Manual	•	-

#### Convex Glass Kit

Model	Part #	O.E.M.	Glass Size	Side	Color	M/R	Heat
428	V154280003 <sup>5</sup>	687992004	7 <sup>3</sup> / <sub>4</sub> " x 5 <sup>3</sup> / <sub>4</sub> "	Both	Black	Manual	•

#### Convex Mirror Cover

Model	Part #	Side	Color	Light
428	V134281015	Both	Chrome	-

#### NOTES

<sup>3</sup> Furnished with punched holes

<sup>4</sup> Kit furnished with marker light

<sup>5</sup> Furnished with turn signal

<sup>6</sup> Chrome backcover with chrome housing

#### Flat Mirror Actuator

Model	Part #	Side
427	V084270006	Both



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## FERRARA FIRE APPARATUS

FD-100, HD-57, HD-77, HD-107, LP-102 Ladders. Mid & Rear Mount Platforms. Ember, Igniter, Infer-, Intruder 2, Ultra Pumpers. Custom Tankers. Heavy Rescues. Type I Wildland | **407 System**



Flat Glass Head



Mirror Cover



Convex Glass Head

### Vehicle:

FD-100, HD-57, HD-77, HD-107, LP-102 Ladders. Mid & Rear Mount Platforms. Ember, Igniter, Infer-, Intruder 2, Ultra Pumpers. Custom Tankers. Heavy Rescues. Type I Wildland (2006-Present)

- Fits 1-1 $\frac{1}{8}$ " tube

### Head Size

8 $\frac{1}{16}$ "w x 15 $\frac{1}{16}$ "h x 5 $\frac{1}{4}$ "d

### NOTES

**M/R** Manual / remote

<sup>1</sup> Furnished less electrical harness. Contact Velvac for specific part numbers and availability

<sup>2</sup> Chrome backcover with chrome housing

- For Commercial 2/4 Door Pumpers, Tankers, Medium Rescue and Wildlands Type III, consult specific vehicle make/model section of this catalog.

### Side Mount Bracket

Model	Part #	Dimension "A"	Dimension "B"	Side	Color	Material
407	V584070330 <sup>1</sup>	35"	8 $\frac{7}{16}$ "	Both	Stainless	Stainless
407	V584070340 <sup>1</sup>	35"	6 $\frac{7}{16}$ "	Both	Stainless	Stainless

- Dimension A: Distance between upper and lower bracket holder mounting holes
- Dimension B: Distance between the outside edge of the mirror bracket and the mounting surface

### Flat Glass Head *Glass adjustable*

Model	Part #	O.E.M.	Glass Size	Side	Color	M/R	Heat	Light
427	V514270016 <sup>2</sup>	-	7 $\frac{1}{4}$ "w x 14 $\frac{1}{4}$ "h	Right	Chrome	Remote	•	-
427	V514270015 <sup>2</sup>	-	7 $\frac{1}{4}$ "w x 14 $\frac{1}{4}$ "h	Left	Chrome	Remote	•	-
427	V514270122	DS514270122	7 $\frac{1}{4}$ "w x 14 $\frac{1}{4}$ "h	Right	Black	Remote	•	-
427	V514270121	DS514270121	7 $\frac{1}{4}$ "w x 14 $\frac{1}{4}$ "h	Left	Black	Remote	•	-

### Flat Glass Kit

Model	Part #	O.E.M.	Glass Size	Side	Color	M/R	Heat
427	V154270011	101445027	7 $\frac{1}{4}$ "w x 14 $\frac{1}{4}$ "h	Both	Black	Both	•

## FERRARA FIRE APPARATUS

### 407 System

Continued

#### Mirror Cover

Model	Part #	O.E.M.	Side	Color	Light
427	V134271008	-	Both	Chrome	-
427	V134271000	DS134271000 101445029	Both	Black	-

#### Accessories

- **Head Clamp & Screws Kit**  
Model 400 | Part # V614000010

#### NOTES

<sup>2</sup> Chrome backcover with chrome housing

#### Convex Glass Head *Glass adjustable*

Model	Part #	O.E.M.	Glass Size	Side	Color	M/R	Heat	Light
428	V564281014 <sup>2</sup>	-	7¾"w x 5¾"h	Both	Chrome	Manual	•	-
428	V564281002	DS564281002	7¾"w x 5¾"h	Both	Black	Manual	•	-

#### Convex Glass Kit

Model	Part #	O.E.M.	Glass Size	Side	Color	M/R	Heat
428	V154280002	101445028	7¾"w x 5¾"h	Both	Black	Manual	•

#### Convex Mirror Cover

Model	Part #	O.E.M.	Side	Color	Light
428	V134281015	-	Both	Chrome	-
428	V134281011	DS134281011	Both	Black	-

#### Flat Mirror Actuator

Model	Part #	Side
427	V084270006	Both



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## FORD & GM 2020 VAN AND CAB CHASSIS MIRRORS

- Velvac's 2020 and 2020XG family of mirrors feature OE fit and styling, and provide outstanding visibility of passing lanes and blind spots around the vehicle, making them the industry standard for wide body cutaway van and truck cab chassis applications. These mirrors mount directly to the OE sail area on the door for clean and easy installation. The modular design allows a single mirror style to be used across multiple van and truck platforms, making them perfect for all OE and fleet applications. In addition to the original 2020 mirrors, Velvac now offers a new 2020 Mini-LEM system with integrated camera options and our new 2020XG, the next generation in wide body mirror technology

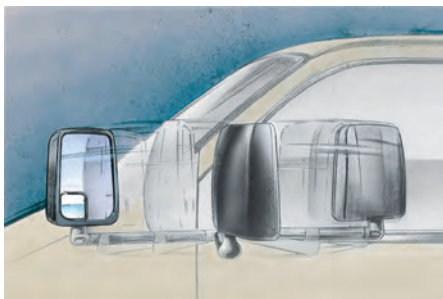


Standard

Deluxe

### Model 2020 Mirror System

- Model 2020 mirrors are designed specifically for wide body applications such as high cube cutaway vans, rental trucks, Class C RV's and ambulances. The fixed length arms are designed to position the mirror beyond the body providing the driver with an unobstructed view of blind spots and passing lanes around the vehicle. These versatile mirrors are available in several body widths and finishes as well as manual or heated remote glass
- Mirrors available for 86", 96" and 102" wide bodies
- Die cast arms and bases are e-coated and powder coated for corrosion resistance
- Available in black, white and black base/arm with chrome head
- Two mirror head options:
  - Standard head with lower wedge convex
  - Deluxe head with full width lower convex
- Fold away feature allows mirrors to fold forward and back for easy vehicle storage and protection against impact



Unique pivot design



### Model 2020 Mini-LEM Mirror System

- Velvac has added the exclusive pre-positioned lower camera option to the 2020 mirror, providing even greater coverage of the blind spot areas around the vehicle. These mirrors are available with either a black and white CCD camera or the featured CMOS color camera for even greater clarity and object detection
- Camera image is reversed to provide a picture in the same orientation as the mirror image for seamless observation of blind spots and passing lanes
- CMOS color camera with infrared LED's provide greater image definition, truer colors and anti-blooming technology, allowing drivers to quickly identify objects in a variety of light conditions
- Systems can be designed to integrate with back-up cameras for complete vehicle blind spot coverage. See [Vision Systems](#) section for more information on Velvac's back-up cameras and CMOS camera technology



Mini-LEM Camera

2020 Mini-LEM with turn signal option in flat glass

## FORD & GM 2020XG VAN AND CAB CHASSIS MIRRORS

### Model 2020XG Mirror Systems

- A combination of styling, quality and performance make the 2020XG the new benchmark for wide body mirror systems. The fully integrated arm, base and mirror head look stylish, and together reduce vibration and provide large, clear views of the blind spots and passing lanes. Since these mirrors are designed specifically for 96" and 102" wide bodies, they provide a complete vision solution with no compromising



### Style/Value

- Fully integrated base, arm and mirror head for a clean OE look
- "Swept back" design prepositions the mirror in the optimal location; no head adjustment necessary
- Stylized mirror base fits directly in the OE "sail area" mounting holes
- Rigid design for better stability and image clarity
- Easily replaceable mirror head, glass and arm components help reduce downtime and service costs

### Quality

- Die cast aluminum mounting base and upper arm are e-coated and powder coated for corrosion protection
- OEM-approved plastic mirror shell and lower arm deliver durability and UV resistance
- Pivot system allows the mirror to be folded forward or back upon impact and returned easily to the normal driving position

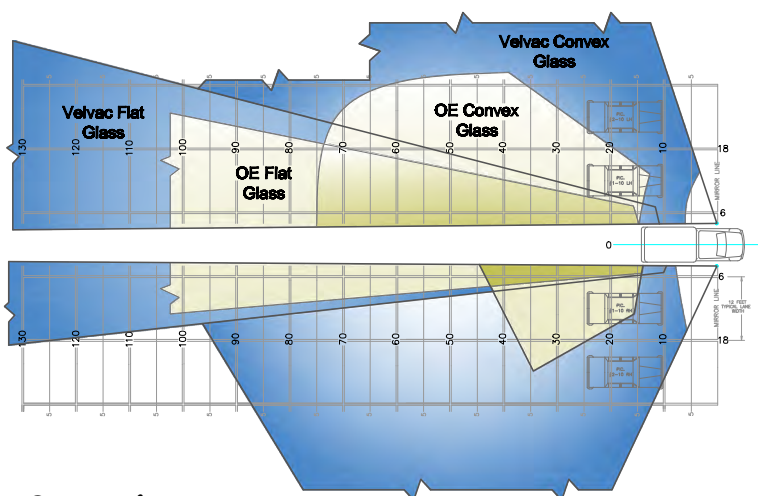
### Increased safety

- Advanced vibration dampening in mirror head keeps image steady even on rough road surfaces
- 63 sq. in. flat glass and 29½ sq. in. convex glass with 18" ROC provides great visibility of the passing lanes and blind spots around the vehicle

### Field of View Coverage

- Field of view diagram below shows the superior vision and blind spot coverage provided by Velvac 2020 and 2020XG mirrors relative to typical OE mirrors used on a wide body applications. Velvac's 2020 and 2020XG mirrors can help to reduce blind spots and provide visibility of multiple passing lanes around the vehicle leading to better driving decisions and the reduction of costly accidents

Field of View Comparison



### Field of View Comparison

OV coverage: Velvac (blue), OE (green)

Information shown above represents a typical vision pattern when using Velvac 2020 or 2020XG mirrors compared to a typical OE option mirror

### Helpful hint:

Most cutaway van and cab chassis OE mirrors are not designed for body widths that extend beyond 96 & 102 inches. Misuse of these narrow OE mirrors leads to obstructed views and dangerous blind spots and may not fully meet all DOT mirror requirements based on these applications.

Be confident that your wide body vehicle meets or exceeds FMVSS 111 requirements for Rear View Mirrors with Velvac's mirrors



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E-Series Cutaway Van | **2020 System**



Standard

Deluxe

- **Flat Glass**

Standard 57 sq. in.  
Deluxe 62 sq. in

- **Convex Glass**

Standard wedge 10 sq. in. | 8" ROC  
Deluxe full 30 sq. in. | 12" ROC

**Vehicle:**

E-Series Cutaway Van Mirrors  
(2003-Present)

### 86" Body Width

Model	Pair Part #	Left Side #	Right Side #	Color	Head	Flat Glass	Convex Glass	Options
2020	715401	715403	715402	Black	Standard	Manual	-	-
2020	715419	715421	715420	Black	Standard	Heat / Remote	-	-
2020	715410	715411	715412	White	Standard	Manual	-	-
2020	715428	715429	715430	White	Standard	Heat / Remote	-	-

### 96" Body Width

Model	Pair Part #	Left Side #	Right Side #	Color	Head	Flat Glass	Convex Glass	Options
2020	715404	715405	715406	Black	Standard	Manual	-	-
2020	715422	715423	715424	Black	Standard	Heat / Remote	-	-
2020	715455	715457	715456	Black	Standard	Heat / Remote	-	Light
2020	715449	715451	715450	Black	Deluxe	Manual	Manual	-
2020	715437	715439	715438	Black	Deluxe	Heat / Remote	Heat / Manual	Light
2020	715413	715415	715414	White	Standard	Manual	-	-
2020	715431	715433	715432	White	Standard	Heat / Remote	-	-
2020	715443	715445	715444	White	Deluxe	Heat / Remote	H/M	Light

### 102" Body Width

Model	Pair Part #	Left Side #	Right Side #	Color	Head	Flat Glass	Convex Glass	Options
2020	715407	715409	715408	Black	Standard	Manual	-	-
2020	715425	715427	715426	Black	Standard	Heat / Remote	-	-
2020	715458	715459	715460	Black	Standard	Heat / Remote	-	Light
2020	715452	715453	715454	Black	Deluxe	Manual	Manual	-
2020	715440	715441	715442	Black	Deluxe	Heat / Remote	Heat / Manual	Light
2020	715416	715417	715418	White	Standard	Manual	-	-
2020	715434	715435	715436	White	Standard	Heat / Remote	-	-
2020	715446	715447	715448	White	Deluxe	Heat / Remote	Heat / Manual	Light

**NOTES**

**Light** Lighted arm

\*All remote mirror PAIRS include switches and wire harnesses. These items are NOT included when remote mirrors are sold as sides

Pre-2003 mirror service parts can be found on [www.velvac.com](http://www.velvac.com) by searching with a keyword "1992-2002 Ford"

# MIRRORS

## FORD

### 2020 Mini-LEM System w/ Color Camera | E-Series Cutaway Van



- **Flat Glass**  
62 sq. in
- **Convex Glass**  
30 sq. in. | 12" ROC

#### Vehicle:

E-Series Cutaway Van Mirrors  
(2003-Present)

#### 96" Body Width

Model	Pair Part #	Left Side #	Right Side #	Color	Head	Flat Glass	Convex Glass	Options
2020	719311	719313	719312	Black	Deluxe	Manual	Manual	-
2020	719317	719319	719318	Black	Deluxe	Heat / Remote	Heat / Manual	-
2020	719326	719327	719328	Black	Deluxe	Heat / Remote	Heat / Manual	Light
2020	719335	719337	719336	Black	Deluxe	Heat / Remote	Heat / Manual	Signal
2020	719344	719345	719346	Black	Deluxe	Heat / Remote	Heat / Manual	Signal / Light
2020	719314	719315	719316	White	Deluxe	Manual	Manual	-
2020	719320	719321	719322	White	Deluxe	Heat / Remote	Heat / Manual	-
2020	719329	719331	719330	White	Deluxe	Heat / Remote	Heat / Manual	Light
2020	719338	719339	719340	White	Deluxe	Heat / Remote	Heat / Manual	Signal
2020	719347	719349	719348	White	Deluxe	Heat / Remote	Heat / Manual	Signal / Light
2020	719323	719325	719324	Chrome	Deluxe	Heat / Remote	Heat / Manual	-
2020	719332	719333	719334	Chrome	Deluxe	Heat / Remote	Heat / Manual	Light
2020	719341	719343	719342	Chrome	Deluxe	Heat / Remote	Heat / Manual	Signal
2020	719350	719351	719352	Chrome	Deluxe	Heat / Remote	Heat / Manual	Signal / Light

#### 102" Body Width

Model	Pair Part #	Left Side #	Right Side #	Color	Head	Flat Glass	Convex Glass	Options
2020	719353	719355	719354	Black	Deluxe	Manual	Manual	-
2020	-	719361	719360	Black	Deluxe	Heat / Remote	Heat / Manual	-
2020	719368	719369	719370	Black	Deluxe	Heat / Remote	Heat / Manual	Light
2020	719379	719381	719380	Black	Deluxe	Heat / Remote	Heat / Manual	Signal
2020	719388	719389	719390	Black	Deluxe	Heat / Remote	Heat / Manual	Signal / Light
2020	719356	719357	719358	White	Deluxe	Manual	Manual	-
2020	719362	719363	719364	White	Deluxe	Heat / Remote	Heat / Manual	-
2020	719371	719373	719372	White	Deluxe	Heat / Remote	Heat / Manual	Light
2020	719382	719383	719384	White	Deluxe	Heat / Remote	Heat / Manual	Signal
2020	719391	719393	719392	White	Deluxe	Heat / Remote	Heat / Manual	Signal / Light
2020	719365	719367	719366	Chrome	Deluxe	Heat / Remote	Heat / Manual	-
2020	719374	719375	719376	Chrome	Deluxe	Heat / Remote	Heat / Manual	Light
2020	719385	719387	719386	Chrome	Deluxe	Heat / Remote	Heat / Manual	Signal
2020	719394	719395	719396	Chrome	Deluxe	Heat / Remote	Heat / Manual	Signal / Light

#### NOTES

**Light** Lighted arm  
**Signal** Signal arrow in glass

\*All remote mirror PAIRS include switches and wire harnesses. These items are NOT included when remote mirrors are sold as sides

Pre-2003 mirror service parts can be found on [www.velvac.com](http://www.velvac.com) by searching with a keyword "1992-2002 Ford"



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E-Series Cutaway Van | **2020XG System**



### Vehicle:

E-Series Cutaway Van Mirrors  
(2003-Present)

- **Flat Glass**  
64 sq. in
- **Convex Glass**  
29 sq. in. | 18" ROC

### 96" Body Width

Model	Pair Part #	Left Side #	Right Side #	Color	Flat Glass	Convex Glass	Options
2020XG	715899	715901	715900	Black	Manual	Manual	-
2020XG	715905	715907	715906	Black	Heat / Remote	Heat / Manual	-
2020XG	716346	716347	716348	Black	Heat / Remote	Heat / Manual	Light
2020XG	716343	716345	716344	Black	Heat / Remote	Heat / Manual	Signal
2020XG	715902	715903	715904	White	Manual	Manual	-
2020XG	715908	715909	715910	White	Heat / Remote	Heat / Manual	-
2020XG	716382	716383	716384	White	Heat / Remote	Heat / Manual	Light
2020XG	716379	716381	716380	White	Heat / Remote	Heat / Manual	Signal
2020XG	715953	715955	715954	Chrome	Heat / Remote	Heat / Manual	-
2020XG	716414	716415	716416	Chrome	Heat / Remote	Heat / Manual	Light
2020XG	716411	716413	716412	Chrome	Heat / Remote	Heat / Manual	Signal

### 102" Body Width

Model	Pair Part #	Left Side #	Right Side #	Color	Flat Glass	Convex Glass	Options
2020XG	715923	715925	715924	Black	Manual	Manual	-
2020XG	715929	715931	715930	Black	Heat / Remote	Heat / Manual	-
2020XG	716322	716323	716324	Black	Heat / Remote	Heat / Manual	Light
2020XG	716319	716321	716320	Black	Heat / Remote	Heat / Manual	Signal
2020XG	715926	715927	715928	White	Manual	Manual	-
2020XG	715932	715933	715934	White	Heat / Remote	Heat / Manual	-
2020XG	716370	716371	716372	White	Heat / Remote	Heat / Manual	Light
2020XG	716367	716369	716368	White	Heat / Remote	Heat / Manual	Signal
2020XG	715971	715973	715972	Chrome	Heat / Remote	Heat / Manual	-
2020XG	716394	716395	716396	Chrome	Heat / Remote	Heat / Manual	Light
2020XG	716391	716393	716392	Chrome	Heat / Remote	Heat / Manual	Signal

#### NOTES

**Light** Lighted head

**Signal** Signal arrow in glass

**Chrome** Chrome head with black arm and base

\*All remote mirror PAIRS include switches and wire harnesses. These items are NOT included when remote mirrors are sold as sides

Pre-2003 mirror service parts can be found on [www.velvac.com](http://www.velvac.com) by searching with a keyword "1992-2002 Ford"

# MIRRORS

## FORD

### 2020XG System | Ford F Series



#### Vehicle:

Ford 250-550 (Up to 2016)

Ford 650-750

- **Flat Glass**  
64 sq. in
- **Convex Glass**  
29 sq. in. | 18" ROC

#### 96" Body Width

Model	Pair Part #	Left Side #	Right Side #	Color	Head	Flat Glass	Convex Glass	Options
2020XG	716355	716357	716356	Black	Deluxe	Manual	Manual	-
2020XG	716358	716359	716360	Black	Deluxe	Heat / Remote	Heat / Manual	-
2020XG	716364	716365	716366	Black	Deluxe	Heat / Remote	Heat / Manual	Light
2020XG	716361	716363	716362	Black	Deluxe	Heat / Remote	Heat / Manual	Signal
2020XG	716423	716425	716424	Chrome	Deluxe	Heat / Remote	Heat / Manual	-
2020XG	716429	716431	716430	Chrome	Deluxe	Heat / Remote	Heat / Manual	Light
2020XG	716426	716427	716428	Chrome	Deluxe	Heat / Remote	Heat / Manual	Signal

#### 102" Body Width

Model	Pair Part #	Left Side #	Right Side #	Color	Head	Flat Glass	Convex Glass	Options
2020XG	716331	716333	716332	Black	Deluxe	Manual	Manual	-
2020XG	716334	716335	716336	Black	Deluxe	Heat / Remote	Heat / Manual	-
2020XG	716340	716341	716342	Black	Deluxe	Heat / Remote	Heat / Manual	Light
2020XG	716337	716339	716338	Black	Deluxe	Heat / Remote	Heat / Manual	Signal
2020XG	716402	716403	716404	Chrome	Deluxe	Heat / Remote	Heat / Manual	-
2020XG	716408	716409	716410	Chrome	Deluxe	Heat / Remote	Heat / Manual	Light
2020XG	716405	716407	716406	Chrome	Deluxe	Heat / Remote	Heat / Manual	Signal

#### NOTES

**Light** Lighted head

**Signal** Signal arrow in glass

**Chrome** Chrome head with black arm and base

\*All remote mirror PAIRS include switches and wire harnesses. These items are NOT included when remote mirrors are sold as sides

Pre-2003 mirror service parts can be found on [www.velvac.com](http://www.velvac.com) by searching with a keyword "1992-2002 Ford"



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E-Series Cutaway Van | **2020XG Mini-LEM System**

**Vehicle:**

 E-Series Cutaway Van Mirrors  
(2003-Present)

- **Flat Glass**  
64 sq. in
- **Convex Glass**  
29 sq. in. | 18" ROC

**96" Body Width**

Model	Pair Part #	Left Side #	Right Side #	Color	Head	Flat Glass	Convex Glass	Options
2020XG	717516	717517	717518	Black	Deluxe	Heat / Remote	Heat / Manual	-
2020XG	717523	717525	717524	Black	Deluxe	Heat / Remote	Heat / Manual	Signal
2020XG	718612	718613	718614	White	Deluxe	Heat / Remote	Heat / Manual	-
2020XG	717541	717543	717542	Chrome	Deluxe	Heat / Remote	Heat / Manual	-
2020XG	717544	717545	717546	Chrome	Deluxe	Heat / Remote	Heat / Manual	Signal

**102" Body Width**

Model	Pair Part #	Left Side #	Right Side #	Color	Head	Flat Glass	Convex Glass	Options
2020XG	717504	717505	717506	Black	Deluxe	Heat / Remote	Heat / Manual	-
2020XG	717526	717527	717528	Black	Deluxe	Heat / Remote	Heat / Manual	Signal
2020XG	718615	718617	718616	White	Deluxe	Heat / Remote	Heat / Manual	-
2020XG	717507	717509	717508	Chrome	Deluxe	Heat / Remote	Heat / Manual	-
2020XG	717547	717549	717548	Chrome	Deluxe	Heat / Remote	Heat / Manual	Signal

**NOTES**
**Signal** Signal arrow in glass

**Chrome** Chrome head with black arm and base

\*All remote mirror PAIRS include switches and wire harnesses. These items are NOT included when remote mirrors are sold as sides

Pre-2003 mirror service parts can be found on [www.velvac.com](http://www.velvac.com) by searching with a keyword "1992-2002 Ford"

# MIRRORS

## FORD

### 2020XG Mini-LEM System | Ford F Series



#### Vehicle:

Ford 250-550 (Up to 2016)  
Ford 650-750

- **Flat Glass**  
64 sq. in
- **Convex Glass**  
29 sq. in | 18" ROC

#### 96" Body Width

Model	Pair Part #	Left Side #	Right Side #	Color	Head	Flat Glass	Convex Glass	Options
2020XG	717586	717587	717588	Black	Deluxe	Heat / Remote	Heat / Manual	-
2020XG	717589	717591	717590	Black	Deluxe	Heat / Remote	Heat / Manual	Signal
2020XG	717598	717599	717600	Chrome	Deluxe	Heat / Remote	Heat / Manual	-
2020XG	717601	717603	717602	Chrome	Deluxe	Heat / Remote	Heat / Manual	Signal

#### 102" Body Width

Model	Pair Part #	Left Side #	Right Side #	Color	Head	Flat Glass	Convex Glass	Options
2020XG	717592	717593	717594	Black	Deluxe	Heat / Remote	Heat / Manual	-
2020XG	717595	717597	717596	Black	Deluxe	Heat / Remote	Heat / Manual	Signal
2020XG	717607	717609	717608	Chrome	Deluxe	Heat / Remote	Heat / Manual	Signal

#### NOTES

**Signal** Signal arrow in glass

**Chrome** Chrome head with black arm and base

\*All remote mirror PAIRS include switches and wire harnesses. These items are NOT included when remote mirrors are sold as sides

Pre-2003 mirror service parts can be found on [www.velvac.com](http://www.velvac.com) by searching with a keyword "1992-2002 Ford"

### 2020XG Mini LEM System w/ OAT | Ford F450 - F550



#### Vehicle:

Ford F450 - F550 Series (Up to 2016)

- **Flat Glass**  
64 sq. in
- **Convex Glass**  
29 sq. in | 18" ROC

#### 102" Body Width

Model	Pair Part #	Left Side #	Right Side #	Color	Head	Flat Glass	Convex Glass	Options
2020XG	717866	717867	717868	Chrome	Deluxe	Heat / Remote	Heat / Manual	-

#### NOTES

\*All remote mirror PAIRS include switches and harnesses - except new mirrors with OAT

\*\* New mirrors with OAT (outside air temperature) connect directly to OE harness and are controlled by Ford heat,

power and light controls for fast and easy installation



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### Ford F450 - F550 | 2020XG System w/ OAT



#### Vehicle:

Ford F450 - F550 Series (Up to 2016)

- **Flat Glass**  
64 sq. in
- **Convex Glass**  
29 sq. in | 18" ROC

#### 96" Body Width

Model	Pair Part #	Left Side #	Right Side #	Color	Head	Flat Glass	Convex Glass	Options
2020XG	717379	717381	717380	Black	Deluxe	Manual	Manual	-
2020XG	717181	717183	717182	Black	Deluxe	Heat / Remote	Heat / Manual	-
2020XG	717174	717175	717176	Black	Deluxe	Heat / Remote	Heat / Manual	Light
2020XG	717513	717515	717514	Chrome	Deluxe	Heat / Remote	Heat / Manual	-

#### 102" Body Width

Model	Pair Part #	Left Side #	Right Side #	Color	Head	Flat Glass	Convex Glass	Options
2020XG	717382	717383	717384	Black	Deluxe	Manual	Manual	-
2020XG	717187	717189	717188	Black	Deluxe	Heat / Remote	Heat / Manual	-
2020XG	717184	717185	717186	Black	Deluxe	Heat / Remote	Heat / Manual	Light
2020XG	717501	717503	717502	Chrome	Deluxe	Heat / Remote	Heat / Manual	-

#### Vehicle:

Ford F450 - F550 Series (2017 - Present)

**NOTE:** Newer vehicles require an adapter kit; PNs include necessary electrical connectors, adapter kit, mounting hardware and install instructions

#### 96" Body Width

Model	Pair Part #	Left Side #	Right Side #	Color	Head	Flat Glass	Convex Glass	Options
2020XG	719748	719749	719750	Black	Deluxe	Heat / Remote	Heat / Manual	Light
2020XG	719751	719753	719752	Black	Deluxe	Heat / Remote	Heat / Manual	-

#### 102" Body Width

Model	Pair Part #	Left Side #	Right Side #	Color	Head	Flat Glass	Convex Glass	Options
2020XG	719754	719755	719756	Black	Deluxe	Heat / Remote	Heat / Manual	Light
2020XG	719757	719759	719758	Black	Deluxe	Heat / Remote	Heat / Manual	-
2020XG	719760	719761	719762	Chrome	Deluxe	Heat / Remote	Heat / Manual	-

#### NOTES

**Light** Lighted arm

**Chrome** Chrome head with black arm and base

\*All remote mirror PAIRS include switches and harnesses - except new mirrors with OAT

\*\* New mirrors with OAT (outside air temperature) connect directly to OE harness and are controlled by Ford heat, power and light controls for fast and easy installation

**NOTE: Part numbers listed in RED are NEW!**

# MIRRORS

## FORD

### 2020 System | Ford F Series



Standard



Deluxe

#### Vehicle:

Ford 250-550 (Up to 2016)

Ford 650-750

- **Flat Glass**

Standard 57 sq. in.

Deluxe 62 sq. in

- **Convex Glass**

Standard wedge 10 sq. in. | 8" ROC

Deluxe full 30 sq. in. | 12" ROC

### 86" Body Width

Model	Pair Part #	Left Side #	Right Side #	Color	Head	Flat Glass	Convex Glass	Options
2020	715141	715154	715153	Black	Standard	Manual	-	-

### 96" Body Width

Model	Pair Part #	Left Side #	Right Side #	Color	Head	Flat Glass	Convex Glass	Options
2020	714527	714529	714528	Black	Standard	Manual	-	-
2020	714533	714535	714534	Black	Standard	Heat / Remote	-	-
2020	714539	714541	714540	Black	Standard	Heat / Remote	-	Light
2020	714515	714517	714516	Black	Deluxe	Manual	Manual	-
2020	714521	714523	714522	Black	Deluxe	Heat / Remote	Heat / Manual	Light
2020	715859	715861	715860	Chrome	Deluxe	Heat / Remote	Heat / Manual	Light

### 102" Body Width

Model	Pair Part #	Left Side #	Right Side #	Color	Head	Flat Glass	Convex Glass	Options
2020	714530	714531	714532	Black	Standard	Manual	-	-
2020	714536	714537	714538	Black	Standard	Heat / Remote	-	-
2020	714542	714543	714544	Black	Standard	Heat / Remote	-	Light
2020	714518	714519	714520	Black	Deluxe	Manual	Manual	-
2020	714524	714525	714526	Black	Deluxe	Heat / Remote	Heat / Manual	Light
2020	715131	715133	715132	White	Deluxe	Heat / Remote	Heat / Manual	Light

#### NOTES

**Light** Lighted arm

\*All remote mirror PAIRS include switches and harnesses



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### Ford E Van | 2020SS Shuttle Mirror System



#### Vehicle:

Ford E Van

- **Flat Glass**  
Superstar 51½ sq in  
Deluxe 63.3 sq in
- **Convex Glass**  
Superstar 23½ sq. in.  
Deluxe 30 sq. in.

**96" Body Width** Velvac also offers the 96" 2020SS mirrors in a 93" configuration for when the bus configuration or customer specifications require it. Please contact Velvac for 93" mirror part numbers.

Model	Pair Part #	Left Side #	Right Side #	Head	Flat Glass	Convex Glass	Options
2020SS	728525	728527	728526	Deluxe	Manual	Manual	-
2020SS	728515	728513	728514	Deluxe	Heat / Remote	Heat / Manual	-
2020SS	728555	728557	728556	Deluxe	Heat / Remote	Heat / Manual	Light
2020SS	728561	728563	728562	Deluxe	Heat / Remote	Heat / Manual	Signal
2020SS	728521	728519	728520	Deluxe	Heat / Remote	Heat / Remote	-
2020SS	728534	728535	728536	Deluxe	Heat / Remote	Heat / Remote	Light
2020SS	728573	728575	728574	Deluxe	Heat / Remote	Heat / Remote	Signal

#### 102" Body Width

Model	Pair Part #	Left Side #	Right Side #	Head	Flat Glass	Convex Glass	Options
2020SS	728754	728755	728756	Superstar	Manual	Manual	-
2020SS	728757	728759	728758	Deluxe	Manual	Manual	-
2020SS	728766	728767	728768	Deluxe	Heat / Remote	Heat	-

### 2020SS Shuttle Mini LEM System

#### 96" Body Width

Model	Pair Part #	Left Side #	Right Side #	Head	Flat Glass	Convex Glass	Options
2020SS	719305	719307	719306	Deluxe	Heat / Remote	Heat / Manual	-
2020SS	719515	719517	719516	Deluxe	Heat / Remote	Heat / Remote	-

#### 102" Body Width

Model	Pair Part #	Left Side #	Right Side #	Head	Flat Glass	Convex Glass	Options
2020SS	728778	728779	728780	Deluxe	Heat / Remote	Heat	-

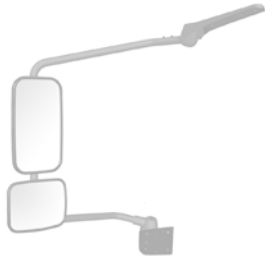
#### NOTES

- Light** Lighted arm
- Signal** Signal arrow in glass

# MIRRORS

## FORD

### 408 System | LCF L45, L55



Flat Glass Head



Convex Glass Kit



Head Clamp & Screw Kit

#### Vehicle:

LCF L45, L55 (2004-2009)

- Fits 1 - 1 1/8" tube

#### Flat Head Size

7 1/4"w x 12 3/8"h x 3 1/2"d

#### Convex Head Size

8 7/8"w x 6 7/8"h x 4 1/8"d

#### Accessories

- **Head Clamp & Screw Kit**

Model 405 | Part # V624059999  
(OEM 2507274C1)

#### NOTES

**M/R** Manual / remote

<sup>1</sup> Includes bezel kit

Bracket not available. Contact OE to purchase.

#### Flat Glass Head *Head adjustable*

Model	Part #	O.E.M.	Glass Size	Side	Color	M/R	Heat	Light
408	V514080002	2588800C2	6 3/4"w x 12"h	Both	Black	Manual	-	-

#### Flat Glass Kit

Model	Part #	O.E.M.	Glass Size	Side	Color	M/R	Heat
408	V614080001 <sup>1</sup>	25589155C1 25589155C2	6 3/4"w x 12"h	Both	Black	Manual	-

#### Convex Glass Head *Head adjustable*

Model	Part #	O.E.M.	Glass Size	Side	Color	M/R	Heat	Light
408	V564080002	2588801C2	8 1/8"w x 6 1/8"h	Both	Black	Manual	-	-

#### Convex Glass Kit

Model	Part #	O.E.M.	Glass Size	Side	Color	M/R	Heat
408	V614080002 <sup>1</sup>	2589156C91	8 1/8"w x 6 1/8"h	Both	Black	Manual	•



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### Ford E-Van | Rear Cross View Mirror System



#### Straight Van Chassis

Kit #	Bracket Only #	Color	Head
713120	713118	White	Velvac
713121	713119	Stainless steel	Velvac
716908	713204	Stainless steel	K-10

#### Vehicle:

Ford E-Van (1992-Present)

- Kits include mirror head, bracket and stainless steel mounting hardware
- Assemblies include either a Velvac 8½" wide view convex or an 8½" K-10 Eyeball convex mirror

### Ford E-Van | Door / Fender Mirror System



#### Vehicle:

Ford E-Van (1992-Present)

- Complete kit includes one door mount head / bracket and one fender mount head / bracket
- All stainless steel construction

Pair Part #	Description
713154	Door / fender - complete pair

# MIRRORS

## FORD

### West Coast System | F650/ F750



#### Vehicle:

F650 / F750 (Up to 2015)

#### NOTES

**M/R** Manual / remote

Order head and bracket to make complete mirror system

#### Bracket Assembly

Part #	Side
719267	Left
719268	Right



#### West Coast Head

Part #	Glass Size	Side	Color	M/R	Heat	Light
705148	7"w x 16"h	Both	Stainless steel	Manual	•	•
705150	7"w x 16"h	Both	Stainless steel	Manual	-	-

#### Convex Glass Head

Part #	Glass Size	Side	Color	M/R	Heat	Light
708685	8½"	Both	Stainless steel	Manual	-	-



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Columbia, Century, FLD | **Hood Mount Mirrors**

### Aero-Bell™ Tripod

- Stylized single piece chrome plated ABS bells and molded nylon clamps help conceal hardware giving the mirror a clean, aerodynamic appearance
- Corrosion resistant materials eliminate rust



tubing Brace	Convex Mirror Head	Mounting Bells	Tube Clamps	Hardware	Packaging
Stainless steel	8½" Stainless steel DuraBall	Molded/chrome plate ABS	Molded black nylon	Stainless steel	Display box

### Fixed Arm Mirror/Bracket

Part #	Dim A
715168	20.35"

### Vehicle:

Columbia and Century

### Fixed Arm Mirror/Bracket

Part #	Dim A
715166	23.55"

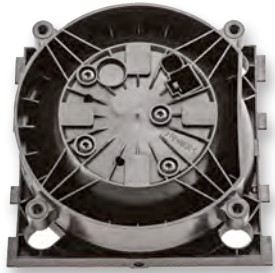
### Vehicle:

FLD

Aero-Bell™ is a trademark of Velvac, Inc

## FREIGHTLINER

384 System | Century



Actuator



RAMI CB Insulator Kit

### Vehicle:

Century (1995-2003)

- Fits 1 1/8" tube

### Head Size

9 1/16" w x 23 5/8" h x 5 3/8" d

### Accessories

- **CB Antenna Holder**  
Model 384 | Part # V083840200  
(OEM MEK083840200L)
- **Replacement CB Harness**  
Model 384 | Part # V093841100  
(OEM MEK093841100)
- **RAMI CB Insulator Kit**  
Model 387 | Part # V613871900  
(OEM MEK613871900)

### NOTES

<sup>1</sup> Single actuator, horizontal movement only

<sup>2</sup> Single actuator, vertical movement only

Bracket, head and glass not available.  
Contact OE to purchase.

### Flat Mirror Actuators

Model	Part #	O.E.M.	Side
384	V613846012 <sup>1</sup>	MEK613846012	Both
384	V613846022 <sup>2</sup>	MEK613846022	Both



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Flat Glass Kit



RAMI CB Insulator Kit



Convex Glass Kit

### Vehicle:

Columbia (1999-2002)

- Fits 1 - 1 1/8" tube

### Flat Head Size

7 5/16" w x 16 3/8" h x 4 5/8" d

### Convex Head Size

7 1/4" w x 7 1/4" h x 5 1/8" d

### Accessories

- **CB Bracket Parts Kit**

Model 409 | Part # V614090029  
(OEM MEK614090029)

- **RAMI CB Insulator Kit**

Model 387 | Part # V613871900  
(OEM MEK613871900)

- **Head Clamp & Screw Kit**

Model 405 | Part # V624059999  
(OEM MEK624059999)

### NOTES

**M/R** Manual / remote

Bracket not available. Contact OE to purchase.

**Flat Glass Housing** Head adjustable. Order glass to make complete head

Model	Part #	O.E.M.	Glass Size	Side	Color	M/R	Heat <sup>2</sup>	Light
409	V614090024	A2254884005	6 3/4" w x 15 7/8" h	Right	Chrome	Remote <sup>1</sup>	•	-
409	V614090023	A2254884004	6 3/4" w x 15 7/8" h	Left	Chrome	Remote <sup>1</sup>	•	-
409	V614090022	A2254884002 A2254884003	6 3/4" w x 15 7/8" h	Both	Chrome	Manual	•	-
409	V614090021	A2254884001	6 3/4" w x 15 7/8" h	Both	Chrome	Manual	-	-
409	V614090033	A2254884012	6 3/4" w x 15 7/8" h	Right	Black	Remote <sup>1</sup>	•	-
409	V614090032	A2254884013	6 3/4" w x 15 7/8" h	Left	Black	Remote <sup>1</sup>	•	-
409	V614090031	A2254884014	6 3/4" w x 15 7/8" h	Both	Black	Manual	•	-
409	V614090030	A2254884015	6 3/4" w x 15 7/8" h	Both	Black	Manual	-	-
409	V614090028	A2254884011	6 3/4" w x 15 7/8" h	Right	Gray	Remote <sup>1</sup>	•	-
409	V614090027	A2254884010	6 3/4" w x 15 7/8" h	Left	Gray	Remote <sup>1</sup>	•	-
409	V614090026	A2254884009	6 3/4" w x 15 7/8" h	Both	Gray	Manual	•	-
409	V614090025	A2254884007	6 3/4" w x 15 7/8" h	Both	Gray	Manual	-	-

### Flat Glass Kit

Model	Part #	O.E.M.	Glass Size	Side	Color	M/R	Heat
383	V153832107	A2254882002	6 3/4" w x 15 7/8" h	Both	Black	Both	•
383	V153832003	A2254882001	6 3/4" w x 15 7/8" h	Both	Gray	Both	•

<sup>1</sup> Flat glass only

<sup>2</sup> Flat and convex glass are heated

## FREIGHTLINER

### 409 System

Continued

#### Convex Glass Housing Head adjustable. Order glass to make complete head

Model	Part #	O.E.M.	Glass Size	Side	Color	M/R	Heat	Light
409	V614090018	A2254885003	6¾" w x 6¾" h	Both	Chrome	Manual	•	-
409	V614090017	A2254885001	6¾" w x 6¾" h	Both	Chrome	Manual	-	-
409	V614090035	A2254885013	6¾" w x 6¾" h	Both	Black	Manual	•	-
409	V614090034	A2254885012	6¾" w x 6¾" h	Both	Black	Manual	-	-
409	V614090020	A2254885009	6¾" w x 6¾" h	Both	Gray	Manual	•	-
409	V614090019	A2254885007	6¾" w x 6¾" h	Both	Gray	Manual	-	-

#### Convex Glass Kit

Model	Part #	O.E.M.	Glass Size	Side	Color	M/R	Heat
388	V153882117	A2251339002 A2254883002	6¾" w x 6¾" h	Both	Black	Manual	•
388	V153882120	-	6¾" w x 6¾" h	Both	Black	Manual	-
388	V153882213	A2254883001	6¾" w x 6¾" h	Both	Gray	Manual	•
388	V153882210	A2251339000	6¾" w x 6¾" h	Both	Gray	Manual	-

#### Flat Mirror Actuators

Model	Part #	O.E.M.	Side
409	V084090002	MEK084090002	Right
409	V084090001	MEK084090001	Left

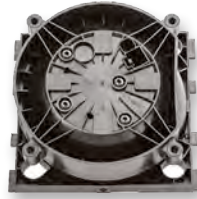


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Columbia | **410 System**



Flat Glass Kit



Actuator



Convex Glass Kit

### Vehicle:

Columbia (2003-2006)

- Fits 1 1/8" tube

### Flat Head Size

7 13/16" w x 16 3/4" h x 4 3/4" d

### Convex Head Size

7 13/16" w x 8 7/16" h x 5 3/8" d

### Accessories

- **RAMI CB Insulator Kit**  
Model 387 | Part # V613871900  
(OEM MEK613871900)
- **Head Clamp & Screw Kit**  
Model 405 | Part # V624059999  
(OEM MEK624059999)

### NOTES

**M/R** Manual / remote

Bracket and head not available. Contact OE to purchase.

### Flat Glass Kit

Model	Part #	O.E.M.	Glass Size	Side	Color	M/R	Heat
414	V154148002	A2258516001	6 7/8" w x 15 3/4" h	Both	Black	Both	•
414	V154148001	A2258516000	6 7/8" w x 15 3/4" h	Both	Black	Both	-

### Convex Glass Kit

Model	Part #	O.E.M.	Glass Size	Side	Color	M/R	Heat
415	V154158002	A2259713001	7 1/2" w x 7" h	Both	Black	Manual	•
415	V154158001	A2259713000	7 1/2" w x 7" h	Both	Black	Manual	-

### Flat Mirror Actuators

Model	Part #	O.E.M.	Side
414	V084143112	MEK084143112	Right
414	V084143012	MEK084143012	Left

# MIRRORS

## FREIGHTLINER

### 433 System | Condor



Flat Glass Kit



Actuator



Convex Glass Kit

#### Vehicle:

Condor (2005-2007)

- Fits 1 - 1 1/8" tube

#### Flat Head Size

7 13/16" w x 16 3/4" h x 4 3/4" d

#### Convex Head Size

7 13/16" w x 8 7/16" h x 5 3/8" d

#### Accessories

##### • CB Kit

Model 433 | Part # V614330001  
(OEM MEK614330001)

##### • Head Clamp & Screw Kit

Model 405 | Part # V624059999  
(OEM MEK624059999)

#### NOTES

**M/R** Manual / remote

Bracket and head not available. Contact OE to purchase.

#### Flat Glass Kit

Model	Part #	O.E.M.	Glass Size	Side	Color	M/R	Heat
414	V154148002	A2258516001	6 7/8" w x 15 3/4" h	Both	Black	Both	•
414	V154148001	A2258516000	6 7/8" w x 15 3/4" h	Both	Black	Both	-

#### Convex Glass Kit

Model	Part #	O.E.M.	Glass Size	Side	Color	M/R	Heat
415	V154158002	A2259713001	7 1/2" w x 7" h	Both	Black	Manual	•
415	V154158001	A2259713000	7 1/2" w x 7" h	Both	Black	Manual	-

#### Flat Mirror Actuators

Model	Part #	O.E.M.	Side
414	V084143112	MEK084143112	Right
414	V084143012	MEK084143012	Left



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106, 106V, 108SD, M2 112, M2 112V, M2 114SD | **414 System**



Flat Glass Kit



Actuator



Convex Glass Kit

### Vehicle:

M2 106, M2 106V, 108SD,  
M2 112, M2 112V, M2 114SD  
(2003-Present)

- Fits 1 1/8" tube

### Flat Head Size

7 13/16" w x 16 3/4" h x 4 3/4" d

### Convex Head Size

7 13/16" w x 8 7/16" h x 5 3/8" d

### NOTES

**M/R** Manual / remote

Bracket and head not available. Contact  
OE to purchase.

### Flat Glass Kit

Model	Part #	O.E.M.	Glass Size	Side	Color	M/R	Heat
414	V154148002	A2258516001	6 7/8" w x 15 3/4" h	Both	Black	Both	•
414	V154148001	A2258516000	6 7/8" w x 15 3/4" h	Both	Black	Both	-

### Convex Glass Kit

Model	Part #	O.E.M.	Glass Size	Side	Color	M/R	Heat
415	V154158002	A2259713001	7 1/2" w x 7" h	Both	Black	Manual	•
415	V154158001	A2259713000	7 1/2" w x 7" h	Both	Black	Manual	-

### Flat Mirror Actuators

Model	Part #	O.E.M.	Side
414	V084143112	MEK084143112	Right
414	V084143012	MEK084143012	Left

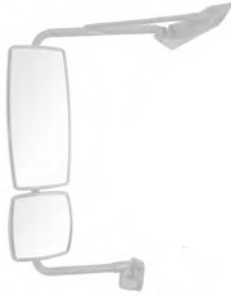
### Accessories

- **Marker Light Assembly - Amber**  
Model 401 | Part # V084010001  
(OEM MEK084010001)
- **Marker Light Bezel**  
Model 414 | Part # V084142400
- **RAMI CB Insulator Kit**  
Model 387 | Part # V613871900  
(OEM MEK613871900)
- **Head Clamp & Screw Kit**  
Model 405 | Part # V624059999  
(OEM MEK624059999)

# MIRRORS

## FREIGHTLINER

382 System | Sterling



Flat Glass Kit



Actuator



Convex Glass Kit

### Vehicle:

Sterling (2002-2009)

- Fits 1 1/8" tube

### Flat Head Size

7 3/16"w x 16 3/4"h x 4 3/4"d

### Convex Head Size

7 3/16"w x 8 7/16"h x 5 3/8"d

### Accessories

- **RAMI CB Insulator Kit**  
Model 387 | Part # V613871900  
(OEM MEK613871900)
- **Head Clamp & Screw Kit**  
Model 405 | Part # V624059999  
(OEM MEK624059999)

### NOTES

**M/R** Manual / remote

Bracket and head not available. Contact OE to purchase.

### Flat Glass Kit

Model	Part #	O.E.M.	Glass Size	Side	Color	M/R	Heat
414	V154148002	A2258516001	6 7/8"w x 15 3/4"h	Both	Black	Both	•

### Convex Glass Kit

Model	Part #	O.E.M.	Glass Size	Side	Color	M/R	Heat
415	V154158002	A2259713001	7 1/2"w x 7"h	Both	Black	Manual	•
415	V154158001	A2259713000	7 1/2"w x 7"h	Both	Black	Manual	-

### Flat Mirror Actuators

Model	Part #	O.E.M.	Side
414	V084143112	MEK084143112	Right
414	V084143012	MEK084143012	Left



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Various | **Look Down Mirrors**

**Vehicle:**

Various (2003-Present)

**Bracket Mount**

**Convex Head Size**

11<sup>3</sup>/<sub>16</sub>"w x 6<sup>7</sup>/<sub>8</sub>"h x 2<sup>7</sup>/<sub>16</sub>"d

**Bracket Hole Location**

**Width Between Holes:**

3<sup>15</sup>/<sub>16</sub>"

**Hole Size:** 1<sup>1</sup>/<sub>64</sub>"

NOTES

**M/R** Manual / remote

- <sup>1</sup> Furnished with black arm, chrome back cover, black bezel and black holder
- <sup>2</sup> Furnished with black arm, black back cover, black bezel and black holder
- <sup>3</sup> Furnished with gray arm, gray back cover, gray bezel and gray holder
- <sup>4</sup> Includes bezel kit



Convex Look Down Mirror

Convex Glass Kit

**Convex Look Down Mirror**

Model	Part #	O.E.M.	Glass Size	Side	Color	M/R	Heat	Light
360	V593605228 <sup>1</sup>	A2248560003	10 <sup>5</sup> / <sub>8</sub> "w x 6 <sup>1</sup> / <sub>4</sub> "h	Right	Chrome	Manual	-	-
360	V593601152 <sup>2</sup>	A2248560000	10 <sup>5</sup> / <sub>8</sub> "w x 6 <sup>1</sup> / <sub>4</sub> "h	Right	Black	Manual	-	-
360	V593601428 <sup>3</sup>	A2248560002	10 <sup>5</sup> / <sub>8</sub> "w x 6 <sup>1</sup> / <sub>4</sub> "h	Right	Gray	Manual	-	-

**Convex Glass Kit**

Model	Part #	O.E.M.	Glass Size	Side	Color	M/R	Heat
360	V613600001 <sup>4</sup>	MEK613600001F	10 <sup>5</sup> / <sub>8</sub> "w x 6 <sup>1</sup> / <sub>4</sub> "h	Both	Black	Manual	-
360	V613600002 <sup>4</sup>	MEK613600002	10 <sup>5</sup> / <sub>8</sub> "w x 6 <sup>1</sup> / <sub>4</sub> "h	Both	Gray	Manual	-

# MIRRORS

## FREIGHTLINER

### Look Down Mirrors | Various Continued



#### Vehicle:

Various (2003-Present)

#### Bracket Mount

#### Convex Head Size

11<sup>1</sup>/<sub>16</sub>"w x 6<sup>3</sup>/<sub>4</sub>"h x 2<sup>5</sup>/<sub>8</sub>"d

#### Bracket Hole Location

#### Width Between Holes:

3<sup>15</sup>/<sub>16</sub>" or 2<sup>3</sup>/<sub>4</sub>"

#### Hole Size: 1<sup>1</sup>/<sub>64</sub>"

#### NOTES

**M/R** Manual / remote

<sup>1</sup> Furnished with black mounting bracket, black housing and stainless steel shroud

<sup>2</sup> Furnished with black mounting bracket and black housing

<sup>3</sup> Furnished with gray mounting bracket and gray housing

### Convex Look Down Mirror

Model	Part #	O.E.M.	Glass Size	Side	Color	M/R	Heat	Light
412	V594121261 <sup>1</sup>	A2258773002	10 <sup>3</sup> / <sub>4</sub> "w x 6 <sup>3</sup> / <sub>8</sub> "h	Right	Stainless	Manual	-	-
412	V594121161 <sup>2</sup>	A2258773000	10 <sup>3</sup> / <sub>4</sub> "w x 6 <sup>3</sup> / <sub>8</sub> "h	Right	Black	Manual	-	-
412	V594121461 <sup>3</sup>	A2258773001	10 <sup>3</sup> / <sub>4</sub> "w x 6 <sup>3</sup> / <sub>8</sub> "h	Right	Gray	Manual	-	-

### Fender Mount Mirrors | Various



#### Vehicle:

Various

- Fender Mount

#### Side Support Range

11<sup>7</sup>/<sub>16</sub>" to 15<sup>5</sup>/<sub>16</sub>"

#### Main Support Range

17<sup>3</sup>/<sub>4</sub>" to 26<sup>3</sup>/<sub>8</sub>"

#### NOTES

**M/R** Manual / remote

<sup>1</sup> Convex spot mirror with tripod assembly, fender mount

<sup>2</sup> Mirror only, fender mount

### Fender Bracket Assembly

Model	Part #	O.E.M.	Side	Color	Material	Heat
445	V594450100 <sup>1</sup>	A2259733000	Both	Stainless	Stainless	-

### Convex Glass Head

Model	Part #	O.E.M.	Glass Size	Side	Color	M/R	Heat	Light
445	V564450350 <sup>2</sup>	MEK564450350	8"	Both	Stainless	Manual	-	-



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GM Cutaway Van | **2020 System**



Standard

Deluxe

### 78" Body Width

- **Flat Glass**  
Standard 57 sq. in.  
Deluxe 62 sq. in.
- **Convex Glass**  
Standard wedge 10 sq. in. | 8" ROC  
Deluxe full 30 sq. in. | 12" ROC

**NOTE: See pages M37 & M38 for product information**

### Vehicle:

GM Cutaway Van Mirrors



Model	Pair Part #	Left Side #	Right Side #	Color	Head	Flat Glass	Convex Glass	Options
2020	718389-5	718391-5	718390-5	Black	Deluxe	Manual	Manual	-

### 86" Body Width

Model	Pair Part #	Left Side #	Right Side #	Color	Head	Flat Glass	Convex Glass	Options
2020	714601	714603	714602	Black	Standard	Manual	-	-
2020	714604	714605	714606	Black	Standard	Heat / Remote	-	-
2020	714591	714593	714592	Black	Deluxe	Manual	Manual	-

### 96" Body Width

Model	Pair Part #	Left Side #	Right Side #	Color	Head	Flat Glass	Convex Glass	Options
2020	714557	714559	714558	Black	Standard	Manual	-	-
2020	714563	714565	714564	Black	Standard	Heat / Remote	-	-
2020	714569	714571	714570	Black	Standard	Heat / Remote	-	Light
2020	714545	714547	714546	Black	Deluxe	Manual	Manual	-
2020	714551	714553	714552	Black	Deluxe	Heat / Remote	Heat / Manual	Light
2020	714916	714917	714918	White	Standard	Heat / Remote	-	-
2020	714910	714911	714912	White	Standard	Manual	-	-
2020	714904	714905	714906	White	Deluxe	Heat / Remote	Heat / Manual	Light

### 102" Body Width

Model	Pair Part #	Left Side #	Right Side #	Color	Head	Flat Glass	Convex Glass	Options
2020	714560	714561	714562	Black	Standard	Manual	-	-
2020	714566	714567	714568	Black	Standard	Heat / Remote	-	-
2020	714572	714573	714574	Black	Standard	Heat / Remote	-	Light
2020	714548	714549	714550	Black	Deluxe	Manual	Manual	-
2020	714554	714555	714556	Black	Deluxe	Heat / Remote	Heat / Manual	Light
2020	714913	714915	714914	White	Standard	Manual	-	-
2020	714919	714921	714920	White	Standard	Heat / Remote	-	-
2020	714907	714909	714908	White	Deluxe	Heat / Remote	Heat / Manual	Light

**NOTES**  
**Light** Lighted arm

\*All remote mirror PAIRS include switches and wire harnesses. These items are NOT included when remote mirrors are sold as sides

NOTE: GMC Silverado mirror assemblies can be found on [www.velvac.com](http://www.velvac.com) by searching with a keyword "Silverado"

# MIRRORS

**GM**

## 2020 Mini LEM System | GM Cutaway Van



- **Flat Glass**  
62 sq. in
- **Convex Glass**  
30 sq. in. | 12" ROC

**Vehicle:**

GM Cutaway Van Mirrors

### 96" Body Width

Model	Pair Part #	Left Side #	Right Side #	Color	Head	Flat Glass	Convex Glass	Options
2020	719397	719399	719398	Black	Deluxe	Manual	Manual	-
2020	719403	719405	719404	Black	Deluxe	Heat / Remote	Heat / Manual	-
2020	719412	719413	719414	Black	Deluxe	Heat / Remote	Heat / Manual	Light
2020	719421	719423	719422	Black	Deluxe	Heat / Remote	Heat / Manual	Signal
2020	719430	719431	719432	Black	Deluxe	Heat / Remote	Heat / Manual	Signal / Light
2020	719400	719401	719402	White	Deluxe	Manual	Manual	-
2020	719406	719407	719408	White	Deluxe	Heat / Remote	Heat / Manual	-
2020	719415	719417	719416	White	Deluxe	Heat / Remote	Heat / Manual	Light
2020	719424	719425	719426	White	Deluxe	Heat / Remote	Heat / Manual	Signal
2020	719433	719435	719434	White	Deluxe	Heat / Remote	Heat / Manual	Signal / Light
2020	719409	719411	719410	Chrome	Deluxe	Heat / Remote	Heat / Manual	-
2020	719418	719419	719420	Chrome	Deluxe	Heat / Remote	Heat / Manual	Light
2020	719427	719429	719428	Chrome	Deluxe	Heat / Remote	Heat / Manual	Signal
2020	719436	719437	719438	Chrome	Deluxe	Heat / Remote	Heat / Manual	Signal / Light

### 102" Body Width

Model	Pair Part #	Left Side #	Right Side #	Color	Head	Flat Glass	Convex Glass	Options
2020	719439	719441	719440	Black	Deluxe	Manual	Manual	-
2020	719445	719447	719446	Black	Deluxe	Heat / Remote	Heat / Manual	-
2020	719454	719455	719456	Black	Deluxe	Heat / Remote	Heat / Manual	Light
2020	719463	719465	719464	Black	Deluxe	Heat / Remote	Heat / Manual	Signal
2020	719472	719474	719473	Black	Deluxe	Heat / Remote	Heat / Manual	Signal / Light
2020	719442	719443	719444	White	Deluxe	Manual	Manual	-
2020	719448	719449	719450	White	Deluxe	Heat / Remote	Heat / Manual	-
2020	719457	719459	719458	White	Deluxe	Heat / Remote	Heat / Manual	Light
2020	719466	719467	719468	White	Deluxe	Heat / Remote	Heat / Manual	Signal
2020	719475	719477	719476	White	Deluxe	Heat / Remote	Heat / Manual	Signal / Light
2020	719451	719453	719452	Chrome	Deluxe	Heat / Remote	Heat / Manual	-
2020	719460	719461	719462	Chrome	Deluxe	Heat / Remote	Heat / Manual	Light
2020	719469	719471	719470	Chrome	Deluxe	Heat / Remote	Heat / Manual	Signal
2020	719478	719479	719480	Chrome	Deluxe	Heat / Remote	Heat / Manual	Signal / Light

**NOTES**

**Light** Lighted arm  
**Signal** Signal arrow in glass

\*All remote mirror PAIRS include switches and wire harnesses. These items are NOT included when remote mirrors are sold as sides



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## GM Cutaway Van | 2020XG System



### Vehicle:

GM Cutaway Van Mirrors

- **Flat Glass**  
64 sq. in
- **Convex Glass**  
29 sq. in. | 18" ROC

### 96" Body Width

Model	Pair Part #	Left Side #	Right Side #	Color	Flat Glass	Convex Glass	Options
2020XG	715911	715913	715912	Black	Manual	Manual	-
2020XG	715917	715919	715918	Black	Heat / Remote	Heat / Manual	-
2020XG	716352	716353	716354	Black	Heat / Remote	Heat / Manual	Light
2020XG	716349	716351	716350	Black	Heat / Remote	Heat / Manual	Signal
2020XG	715914	715915	715916	White	Manual	Manual	-
2020XG	715920	715921	715922	White	Heat / Remote	Heat / Manual	-
2020XG	716388	716389	716390	White	Heat / Remote	Heat / Manual	Light
2020XG	716385	716387	716386	White	Heat / Remote	Heat / Manual	Signal
2020XG	715962	715963	715964	Chrome	Heat / Remote	Heat / Manual	-
2020XG	716420	716421	716422	Chrome	Heat / Remote	Heat / Manual	Light
2020XG	716417	716419	716418	Chrome	Heat / Remote	Heat / Manual	Signal

### 102" Body Width

Model	Pair Part #	Left Side #	Right Side #	Color	Flat Glass	Convex Glass	Options
2020XG	715935	715937	715936	Black	Manual	Manual	-
2020XG	715941	715943	715942	Black	Heat / Remote	Heat / Manual	-
2020XG	716328	716329	716330	Black	Heat / Remote	Heat / Manual	Light
2020XG	716325	716327	716326	Black	Heat / Remote	Heat / Manual	Signal
2020XG	715938	715939	715940	White	Manual	Manual	-
2020XG	715944	715945	715946	White	Heat / Remote	Heat / Manual	-
2020XG	716376	716377	716378	White	Heat / Remote	Heat / Manual	Light
2020XG	716373	716375	716374	White	Heat / Remote	Heat / Manual	Signal
2020XG	715980	715981	715982	Chrome	Heat / Remote	Heat / Manual	-
2020XG	716435	716437	716436	Chrome	Heat / Remote	Heat / Manual	Light
2020XG	716397	716399	716398	Chrome	Heat / Remote	Heat / Manual	Signal

#### NOTES

**Light** Lighted head

**Signal** Signal arrow in glass

**Chrome** Chrome head with black arm and base

\*All remote mirror PAIRS include switches and wire harnesses. These items are NOT included when remote mirrors are sold as sides

NOTE: GMC Silverado mirror assemblies can be found on [www.velvac.com](http://www.velvac.com) by searching with a keyword "Silverado"

# MIRRORS

**GM**

## 2020XG System for GM Cut w/ 8D8 Option | GM Cutaway Van



### Vehicle:

GM Cutaway Van Mirrors

- **Flat Glass**  
64 sq. in
- **Convex Glass**  
29 sq. in. | 18" ROC
- Mirrors connect directly to OE door harness and are controlled by OE switches, making installation fast and easy

### 96" Body Width

Model	Pair Part #	Left Side #	Right Side #	Color	Head	Flat Glass	Convex Glass	Options
2020XG	718416	718417	718418	Black	Deluxe	Heat / Remote	Heat / Manual	-
2020XG	718419	718421	718420	Black	Deluxe	Heat / Remote	Heat / Manual	Light
2020XG	718422	718423	718424	Black	Deluxe	Heat / Remote	Heat / Manual	Signal
2020XG	718434	718435	718436	Chrome	Deluxe	Heat / Remote	Heat / Manual	-
2020XG	718437	718439	718438	Chrome	Deluxe	Heat / Remote	Heat / Manual	Light
2020XG	718440	718441	718442	Chrome	Deluxe	Heat / Remote	Heat / Manual	Signal

### 102" Body Width

Model	Pair Part #	Left Side #	Right Side #	Color	Head	Flat Glass	Convex Glass	Options
2020XG	718425	718427	718426	Black	Deluxe	Heat / Remote	Heat / Manual	-
2020XG	718428	718429	718430	Black	Deluxe	Heat / Remote	Heat / Manual	Light
2020XG	718431	718433	718432	Black	Deluxe	Heat / Remote	Heat / Manual	Signal
2020XG	718443	718445	718444	Chrome	Deluxe	Heat / Remote	Heat / Manual	-
2020XG	718446	718447	718448	Chrome	Deluxe	Heat / Remote	Heat / Manual	Light
2020XG	718449	718451	718450	Chrome	Deluxe	Heat / Remote	Heat / Manual	Signal

#### NOTES

**Light** Lighted arm

**Signal** Signal arrow in glass

Mirrors shown above are used on GM cutaway van chassis with 8D8 option. This option provides OE door harness and control switches with the chassis. Velvac switch and harness not included, and are not required for installation



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## GM Cutaway Van | 2020XG Mini-LEM System



### Vehicle:

GM Cutaway Van

- **Flat Glass**  
64 sq. in
- **Convex Glass**  
29 sq. in. | 18" ROC

### 96" Body Width

Model	Pair Part #	Left Side #	Right Side #	Color	Head	Flat Glass	Convex Glass	Options
2020XG	717550	717551	717552	Black	Deluxe	Heat / Remote	Heat / Manual	-
2020XG	717553	717555	717554	Black	Deluxe	Heat / Remote	Heat / Manual	Signal
2020XG	718618	718619	718620	White	Deluxe	Heat / Remote	Heat / Manual	-
2020XG	717574	717575	717576	Chrome	Deluxe	Heat / Remote	Heat / Manual	-
2020XG	717577	717579	717578	Chrome	Deluxe	Heat / Remote	Heat / Manual	Signal

### 102" Body Width

Model	Pair Part #	Left Side #	Right Side #	Color	Head	Flat Glass	Convex Glass	Options
2020XG	717556	717557	717558	Black	Deluxe	Heat / Remote	Heat / Manual	-
2020XG	717559	717561	717560	Black	Deluxe	Heat / Remote	Heat / Manual	Signal
2020XG	718621	718623	718622	White	Deluxe	Heat / Remote	Heat / Manual	-
2020XG	717580	717581	717582	Chrome	Deluxe	Heat / Remote	Heat / Manual	-
2020XG	717583	717585	717584	Chrome	Deluxe	Heat / Remote	Heat / Manual	Signal

#### NOTES

**Signal** Signal arrow in glass

**Chrome** Chrome head with black arm and base

\*All remote mirror PAIRS include switches and wire harnesses. These items are NOT included when remote mirrors are sold as sides

NOTE: GMC Silverado mirror assemblies can be found on [www.velvac.com](http://www.velvac.com) by searching with a keyword "Silverado"

# MIRRORS

**GM**

## 2020SS Shuttle Mirror System | GM G Van



### Vehicle:

GM G Van

- **Flat Glass**

Superstar 51½ sq in

Deluxe 63.3 sq in

- **Convex Glass**

Superstar 23½ sq. in.

Deluxe 30 sq. in.

### NOTES

**Light** Lighted arm

**Signal** Signal arrow in glass

**96" Body Width** Velvac also offers the 96" 2020SS mirrors in a 93" configuration for when the bus configuration or customer specifications require it. Please contact Velvac for 93" mirror part numbers.

Model	Pair Part #	Left Side #	Right Side #	Head	Flat Glass	Convex Glass	Options
2020SS	718525	718527	718526	Deluxe	Manual	Manual	-
2020SS	718515	718513	718514	Deluxe	Heat / Remote	Heat / Manual	-
2020SS	718555	718557	718556	Deluxe	Heat / Remote	Heat / Manual	Light
2020SS	718561	718563	718562	Deluxe	Heat / Remote	Heat / Manual	Signal
2020SS	718521	718519	718520	Deluxe	Heat / Remote	Heat / Remote	-
2020SS	718534	718535	718536	Deluxe	Heat / Remote	Heat / Remote	Light
2020SS	718573	718575	718574	Deluxe	Heat / Remote	Heat / Remote	Signal

### 102" Body Width

Model	Pair Part #	Left Side #	Right Side #	Head	Flat Glass	Convex Glass	Options
2020SS	718754	718755	718756	Superstar	Manual	Manual	-
2020SS	718757	718759	718758	Deluxe	Manual	Manual	-
2020SS	718763	718765	718764	Deluxe	Heat / Remote	Heat	Light
2020SS	718766	718767	718768	Deluxe	Heat / Remote	Heat	-

## 2020SS Shuttle Mini LEM System

### 96" Body Width

Model	Pair Part #	Left Side #	Right Side #	Head	Flat Glass	Convex Glass	Options
2020SS	719301-7	719303	719302	Deluxe	Heat / Remote	Heat / Manual	-
2020SS	719295	719297	719296	Deluxe	Heat / Remote	Heat / Remote	-



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## GM G Van | Door / Fender Mirror System



Fender mount assembly



Door mount assembly

### Vehicle:

GM G Van (1997-Present)

- Complete kit includes one door mount head / bracket and one fender mount head / bracket
- All stainless steel construction

Pair Part #	Description
713883	Door/fender - complete pair

## GM G Van | Rear Cross View Mirror Systems



### Vehicle:

GM G Van (1997-Present)

- Kits include mirror head, bracket and stainless steel mounting hardware
- Assemblies include either a Velvac 8½" wide view convex or an 8½" K-10 Eyeball convex mirror

### Straight Van Chassis Applications

Kit #	Bracket Only #	Color	Head
713796	-	White	Velvac
713798	-	Stainless steel	Velvac
716909	713993	Stainless steel	K-10

## GM Low Mount Cab and Cutaway | Camper Style



### Vehicle:

GM Low Mount Cab and Cutaway Mirror Systems

- Complete with ⅜" - 16 x 2¼" mounting bolt and hardware

### Camper Style Mirror Head

Part #	Delbar Part #	Glass Size	Head Size	Material
716138-5	HR-1164	63 sq. in.	7½"w x 10½"h	Stainless steel

# MIRRORS

## GMC

### Colorado Canyon Pickup Mirrors | Canyon Pickup Truck

Part #	Description
715885	Complete pair
715886	Right side mirror
715887	Left side mirror
715888	Right side mirror head w/ convex
715889	Left side mirror head w/ convex
723106	Right side convex
723107	Left side convex
702086	Flat glass kit



#### Vehicle:

GMC Canyon Pickup Truck Chassis

- Provides views around 78" bodies to increase driver safety with enhanced view of passing lanes and blind spots
- Large 11.10 square inch convex with 12½" ROC targets blind spots
- 56.62 square inch flat glass area
- Mirrors fold forward and back for easy storage
- Black finish for OE appearance

## HINO

### 260 System | Various



#### Vehicle:

Various (2005-2006)

- Fits ⅞-¾" tube

#### Convex Head Size

7⅞" w x 6⅛" h x 3¼" d

#### NOTES

**M/R** Manual / remote

### Convex Glass Head Head adjustable

Model	Part #	O.E.M.	Glass Size	Side	Color	M/R	Heat	Light
260	V562601127	S8790E0010	7½" w x 5⅝" h	Both	Black	Manual	-	-



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145, 165, 185, 238, 258ALP, 258LP, 268, 268A, 338, 338CT | **428 System**



Convex Glass Head



Convex Mirror Cover

### Vehicle:

145, 165, 185, 238, 258ALP, 258LP, 268, 268A, 338, 338CT (2005-Present)

- Fits 1 - 1 1/8" tube

### Convex Head Size

8 7/16" w x 6 5/8" h x 4 1/2" d

### NOTES

**M/R** Manual / remote  
Bracket not available. Contact OE to purchase.

<sup>1</sup> Chrome backcover with black housing

<sup>2</sup> Includes housing

### Convex Glass Head *Glass adjustable*

Model	Part #	O.E.M.	Glass Size	Side	Color	M/R	Heat	Light
428	V564281005 <sup>1</sup>	S8790E0033	7 3/4" w x 5 3/4" h	Both	Chrome	Manual	-	-
428	V564281001	S8790E0021	7 3/4" w x 5 3/4" h	Both	Black	Manual	-	-

### Convex Glass Kit

Model	Part #	O.E.M.	Glass Size	Side	Color	M/R	Heat
428	V154280001	87931E0010	7 3/4" w x 5 3/4" h	Both	Black	Manual	-
428	V614280008 <sup>2</sup>	S8702E0030	7 3/4" w x 5 3/4" h	Both	Black	Manual	-

### Convex Mirror Cover

Model	Part #	O.E.M.	Side	Color	Light
428	V134281015	S8791E0060	Both	Chrome	-
428	V134281011	S8791E0050	Both	Black	-

### Accessories

- **Head Clamp & Screw Kit**

Model 400 | Part # V614000010  
(OEM 87919E0101)

# MIRRORS

## HINO

**427 System** | 145, 165, 185, 238, 258ALP, 258LP, 268, 268A, 338, 338CT



Flat Glass Head

Flat Glass Kit

Mirror Cover

### Vehicle:

145, 165, 185, 238, 258ALP,  
258LP, 268, 268A, 338, 338CT  
(2005-Present)

- Fits 1 - 1 1/8" tube

### Head Size

8 1/16" w x 15 1/16" h x 5 1/4" d

### Accessories

- **Marker Light Kit w/ Bezel**  
Model 427 | Part # V114272001
- **Head Clamp & Screw Kit**  
Model 400 | Part # V614000010  
(OEM 87919E0101)

### NOTES

**M/R** Manual / remote

<sup>1</sup> Chrome backcover with black housing  
Bracket not available. Contact OE to  
purchase.

### Flat Glass Head *Glass adjustable*

Model	Part #	O.E.M.	Glass Size	Side	Color	M/R	Heat	Light
427	V514271108 <sup>1</sup>	87903E0260	7 1/4" w x 14 1/4" h	Right	Chrome	Remote	•	•
427	V514271107 <sup>1</sup>	87906E0170	7 1/4" w x 14 1/4" h	Left	Chrome	Remote	•	•
427	V514271008 <sup>1</sup>	87903E0043 87903E0042	7 1/4" w x 14 1/4" h	Right	Chrome	Manual	•	•
427	V514271007 <sup>1</sup>	87906E0043 87906E0042	7 1/4" w x 14 1/4" h	Left	Chrome	Manual	•	•
427	V514271006 <sup>1</sup>	87903E0103 87903E0102	7 1/4" w x 14 1/4" h	Right	Chrome	Manual	-	-
427	V514271005 <sup>1</sup>	87906E0063 87906E0062	7 1/4" w x 14 1/4" h	Left	Chrome	Manual	-	-
427	V514270104	87903E0250	7 1/4" w x 14 1/4" h	Right	Black	Remote	•	•
427	V514270103	87906E0160	7 1/4" w x 14 1/4" h	Left	Black	Remote	•	•
427	V514270004	87903E0030 87903E0031	7 1/4" w x 14 1/4" h	Right	Black	Manual	•	•
427	V514270003	87906E0030 87906E0031	7 1/4" w x 14 1/4" h	Left	Black	Manual	•	•
427	V514270014	879010W051	7 1/4" w x 14 1/4" h	Right	Black	Manual	•	-
427	V514270013	879060W010 879060W011	7 1/4" w x 14 1/4" h	Left	Black	Manual	•	-
427	V514270002	87903E0090 87903E0091	7 1/4" w x 14 1/4" h	Right	Black	Manual	-	-
427	V514270001	87906E0051	7 1/4" w x 14 1/4" h	Left	Black	Manual	-	-



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**427 System**  
*Continued*
**Flat Glass Kit**

Model	Part #	O.E.M.	Glass Size	Side	Color	M/R	Heat
427	V154270011	87961E0020	7¼"w x 14¼"h	Both	Black	Both	•
427	V154270010	87961E0010	7¼"w x 14¼"h	Both	Black	Both	-
427	V614270004 <sup>2</sup>	87903E0170 87903E0171	7¼"w x 14¼"h	Right	Black	Both	•
427	V614270005 <sup>2</sup>	87906E0110	7¼"w x 14¼"h	Left	Black	Both	•
427	V614270002 <sup>2</sup>	87903E0160 87903E0161	7¼"w x 14¼"h	Right	Black	Both	-
427	V614270003 <sup>2</sup>	87906E0100	7¼"w x 14¼"h	Left	Black	Both	-

**Mirror Cover**

Model	Part #	O.E.M.	Side	Light	Color
427	V134271009 <sup>3</sup>	-	Both	•	Chrome
427	V134271008	S8791E0030	Both	-	Chrome
427	V614271007 <sup>3,4</sup>	S8791E0040	Both	•	Chrome
427	V134271001 <sup>3</sup>	-	Both	•	Black
427	V134271000	S8791E0010	Both	-	Black
427	V614270006 <sup>3,4</sup>	S8791E0020	Both	•	Black

**NOTES**

- <sup>2</sup> Includes housing
- <sup>3</sup> Furnished with punched holes
- <sup>4</sup> Furnished with marker light

**Flat Mirror Actuator**

Model	Part #	Side
427	V084270006	Both

# MIRRORS

## HME FIRE TRUCK CHASSIS GROUP

**407 System** | Custom Pumper, Tanker, Rescue. Platform. Scorpion™. Silverfox®



Flat Glass Head



Convex Glass Head

### Vehicle:

Custom Pumper, Tanker, Rescue.  
Platform. Scorpion™. Silverfox®  
(2004-Present)

- Fits 1- 1 1/8" tube

### Head Size

8 1/16" w x 15 1/16" h x 5 1/4" d

### NOTES

**M/R** Manual / remote

<sup>1</sup> Furnished less electrical harness. Contact Velvac for specific part numbers and availability

<sup>2</sup> Chrome backcover with chrome housing

- For Commercial Pumper, Tanker, Wolf, Wildland and Redfox, consult specific vehicle make/model section of this catalog.

### Side Mount Bracket

Model	Part #	Dimension "A"	Dimension "B"	Side	Color	Material
407	V584070310 <sup>1</sup>	31 3/4"	7 5/16"	Both	Stainless	Stainless

- Dimension A: Distance between upper and lower bracket holder mounting holes
- Dimension B: Distance between the outside edge of the mirror bracket and the mounting surface

### Flat Glass Head *Glass adjustable*

Model	Part #	Glass Size	Side	Color	M/R	Heat	Light
427	V514270016 <sup>2</sup>	7 1/4" w x 14 1/4" h	Right	Chrome	Remote	•	-
427	V514270015 <sup>2</sup>	7 1/4" w x 14 1/4" h	Left	Chrome	Remote	•	-

### Flat Glass Kit

Model	Part #	Glass Size	Side	Color	M/R	Heat
427	V154270011	7 1/4" w x 14 1/4" h	Both	Black	Both	•

### Mirror Cover

Model	Part #	Side	Color	Light
427	V134271008	Both	Chrome	-



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## HME FIRE TRUCK CHASSIS GROUP

**407 System**  
Continued

### Convex Glass Head *Glass adjustable*

Model	Part #	Glass Size	Side	Color	M/R	Heat	Light
428	V564281014 <sup>2</sup>	7¾"w x 5¾"h	Both	Chrome	Manual	•	-
428	V564281015 <sup>2,3</sup>	7¾"w x 5¾"h	Both	Chrome	Manual	•	-

### Convex Glass Kit

Model	Part #	Glass Size	Side	Color	M/R	Heat
428	V154280002	7¾"w x 5¾"h	Both	Black	Manual	•
428	V154280003 <sup>3</sup>	7¾"w x 5¾"h	Both	Black	Manual	•

### Convex Mirror Cover

Model	Part #	Side	Color	Light
428	V134281015	Both	Chrome	-

### Flat Mirror Actuator

Model	Part #	Side
427	V084270006	Both

### Accessories

- **Head Clamp & Screws Kit**  
Model 400 | Part # V614000010
- **2-Mirror Switch**  
Part # V083200233  
(OEM 79885145)

### NOTES

- <sup>2</sup> Chrome backcover with chrome housing  
<sup>3</sup> Furnished with turn signal

# MIRRORS

## INTERNATIONAL

**405 System | Standard Mirror |** DuraStar, WorkStar, TranStar



Bracket Assemblies

Flat Glass

Convex Glass

### Vehicle:

DuraStar 4100, 4200, 4200LP, 4300, 4300LP, 4400, 4400LP, 4700, 4700LP, 4700LPX, 4800, 4900, Hybrid, Mid-Cab. WorkStar 7300, 7400, 7500, 7600, 7700, Hybrid. TranStar 8100, 8100CH, 8200, 8500, 8600 (2002-Present)

- Fits 1 - 1½" tube

### NOTES

**CB** Bracket assembly furnished with wiring harness for CB

**Look Down** Bracket assembly furnished with black look down mirror

**U/L** Bracket assembly furnished with wiring harness for heated flat (upper) and convex (lower) mirrors

**M/R** Manual / remote

### Bracket Assemblies

Model	Part #	O.E.M.	Side	Color	M/R	Heat	CB	Look Down	U/L
405	V584004001	2505274C3	Left	Black	Manual	-	-	-	-
405	V584004002	2505275C3	Right	Black	Manual	-	-	-	-
405	V584004004	2505278C3	Right	Black	Manual	-	-	•	-
405	V584004005	2505276C4	Left	Black	Manual	-	•	-	-
405	V584004006	2505277C4	Right	Black	Manual	-	•	-	-
405	V584005009	2589149C2	Left	Black	Manual	•	-	-	•
405	V584005010	2589150C2	Right	Black	Manual	•	-	-	•
405	V584005012	2589153C2	Right	Black	Manual	•	-	•	•
405	V584005013	2589151C2	Left	Black	Manual	•	•	-	•
405	V584005014	2589152C2	Right	Black	Manual	•	•	-	•
405	V584005016	2589154C2	Right	Black	Manual	•	•	•	•
405	V584004046	2595651C1	Right	Black	Remote	•	-	-	•
405	V584004048	2595652C1	Right	Black	Remote	•	-	•	•
405	V584004033	2589844C1	Left	Black	Remote	•	•	-	•
405	V584004034	2589847C1	Right	Black	Remote	•	•	-	•



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### 405 System

Continued

#### Flat Glass *Glass only*

Model	Part #	O.E.M.	Glass Size	Side	Color	M/R	Heat
405	V404055800	2505814C2	7 <sup>5</sup> / <sub>8</sub> "w x 16 <sup>3</sup> / <sub>4</sub> "h	Both	n/a	Both	•
405	V404055700	2505813C2	7 <sup>5</sup> / <sub>8</sub> "w x 16 <sup>3</sup> / <sub>4</sub> "h	Both	n/a	Both	-

#### Convex Glass *Glass only*

Model	Part #	O.E.M.	Glass Size	Side	Color	M/R	Heat
406	V404065304	2505816C2	7 <sup>5</sup> / <sub>8</sub> "w x 7 <sup>5</sup> / <sub>8</sub> "h	Both	n/a	Manual	•
406	V404065204	2505815C2	7 <sup>5</sup> / <sub>8</sub> "w x 7 <sup>5</sup> / <sub>8</sub> "h	Both	n/a	Manual	-

#### Convex Look Down Mirror (Optional) *No mirror holder provided*

Model	Part #	O.E.M.	Glass Size	Side	Color	M/R	Heat	Light
360	V563600260	2506220C91 2506220C92	10 <sup>5</sup> / <sub>8</sub> "w x 6 <sup>1</sup> / <sub>4</sub> "h	Right	Chrome	Manual	-	-
360	V563600160	-	10 <sup>5</sup> / <sub>8</sub> "w x 6 <sup>1</sup> / <sub>4</sub> "h	Right	Black	Manual	-	-

#### Flat Head Size

8<sup>3</sup>/<sub>16</sub>"w x 17<sup>3</sup>/<sub>8</sub>"h x 4<sup>3</sup>/<sub>8</sub>"d

#### Convex Head Size

8<sup>1</sup>/<sub>8</sub>"w x 8<sup>1</sup>/<sub>8</sub>"h x 4<sup>9</sup>/<sub>16</sub>"d

#### Accessories

- **Head Clamp & Screw Kit**

Model 405 | Part # V624059999  
(OEM 2507274C1)

# MIRRORS

## INTERNATIONAL

### 400 System | Premium Mirror | DuraStar, WorkStar, TranStar



Flat Glass Kit



CB Antenna  
Holder Assembly



Convex Glass Kit

#### Vehicle:

DuraStar 4100, 4200, 4200LP, 4300, 4300LP, 4400, 4400LP, 4700, 4700LP, 4700LPX, 4800, 4900, Hybrid, Mid-Cab. WorkStar 7300, 7400, 7500, 7600, 7700, Hybrid. TranStar 8100, 8100CH, 8200, 8500, 8600 (2002-Present)

- Fits 1 - 1½" tube

#### NOTES

- CB** Bracket assembly furnished with wiring harness for CB
- Look Down** Bracket assembly furnished with black or chrome look down mirror
- U** Bracket assembly furnished with wiring harness for lighted flat (upper) mirror
- U/L** Bracket assembly furnished with wiring harness for heated flat (upper) and convex (lower) mirrors

### 102 Inch Wide Bracket Assemblies

Model	Part #	O.E.M.	Side	Color	M/R	Heat	CB	Look Down	U	U/L
400	V584004025	2506299C3	Left	Black	Remote	•	-	-	•	•
400	V584004026	2505324C3	Right	Black	Remote	•	-	-	•	•
400	V584004028	2505811C3	Right	Black	Remote	•	-	Black	•	•
400	V584004029	2506300C4	Left	Black	Remote	•	•	-	•	•
400	V584004030	2505302C4	Right	Black	Remote	•	•	-	•	•
400	V584004032	2505812C3	Right	Black	Remote	•	•	Black	•	•
400	V584004501	2505320C3	Left	Stainless	Manual	-	-	-	-	-
400	V584004502	2505321C3	Right	Stainless	Manual	-	-	-	-	-
400	V584004504	2505301C3	Right	Stainless	Manual	-	-	Chrome	-	-
400	V584004505	2505296C4	Left	Stainless	Manual	-	•	-	-	-
400	V584004506	2505298C4	Right	Stainless	Manual	-	•	-	-	-
400	V584004509	2509017C3	Left	Stainless	Manual	•	-	-	•	•
400	V584004526	2599424C1	Right	Stainless	Manual	•	-	-	•	•
400	V584004528	2599423C1	Right	Stainless	Manual	•	-	Chrome	•	•
400	V584004513	2505304C4	Left	Stainless	Manual	•	•	-	•	•
400	V584004530	2599426C1	Right	Stainless	Manual	•	•	-	•	•
400	V584004532	2599427C1	Right	Stainless	Manual	•	•	Chrome	•	•
400	V584004517	2505325C3	Left	Stainless	Remote	•	-	-	•	•
400	V584004518	2505326C3	Right	Stainless	Remote	•	-	-	•	•
400	V584004520	2505303C3	Right	Stainless	Remote	•	-	Chrome	•	•
400	V584004521	2506298C4	Left	Stainless	Remote	•	•	-	•	•
400	V584004522	2505305C4	Right	Stainless	Remote	•	•	-	•	•
400	V584004524	2505810C3	Right	Stainless	Remote	•	•	Chrome	•	•

**M/R** Manual / remote



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#### 96 Inch Wide Bracket Assemblies

Model	Part #	O.E.M.	Side	Color	M/R	Heat	U	U/L
400	V584004535	2596626C1	Left	Stainless	Remote	•	•	•
400	V584004536	2589850C1	Right	Stainless	Remote	•	•	•

#### Flat Glass Kit

Model	Part #	O.E.M.	Glass Size	Side	Color	M/R	Heat
400	V154003107	2505818C1 2505818C2	7¼" w x 14⅞" h	Both	Black	Both	•
400	V154003100	2505817C1 2505817C2	7¼" w x 14⅞" h	Both	Black	Both	-

#### Convex Glass Kit

Model	Part #	O.E.M.	Glass Size	Side	Color	M/R	Heat
400	V154003117	2505820C1 2505820C2 2505820C3	7" w x 6⅜" h	Both	Black	Manual	•
400	V154003110	2505819C1 2505819C2	7" w x 6⅜" h	Both	Black	Manual	-
400	V154004002 <sup>1</sup>	2594622C91	7" w x 6⅜" h	Right	Black	Manual	•
400	V154004001 <sup>1</sup>	2594621C91	7" w x 6⅜" h	Left	Black	Manual	•

#### Flat Mirror Actuators

Model	Part #	O.E.M.	Side
400	V094002590 <sup>2</sup>	2592422C1	Both
425	V094252591 <sup>3</sup>	2595653C1	Both

#### Head Size

8¾" w x 24¾" h x 5⅜" d

#### NOTES

- <sup>1</sup> Furnished with turn signal
- <sup>2</sup> Furnished with cable assembly without turn signal
- <sup>5</sup> Furnished with cable assembly for turn signal

#### Convex Look Down Mirror (Optional) *No mirror holder provided*

Model	Part #	O.E.M.	Glass Size	Side	Color	M/R	Heat	Light
360	V563600260	2506220C91 2506220C92	10⅝" w x 6¼" h	Right	Chrome	Manual	-	-
360	V563600160	-	10⅝" w x 6¼" h	Right	Black	Manual	-	-

#### Accessories

- **CB Antenna Holder Assembly**  
Model 400 | Part # V084002002  
(OEM 2506242C92)
- **Replacement CB Harness**  
Model 400 | Part # V084000100  
(OEM 2506241C91)
- **Head Clamp & Screw Kit**  
Model 400 | Part # V614000010  
(OEM 2506236C91)

# MIRRORS

## INTERNATIONAL

**466 System | Universal Mirror | DuraStar, WorkStar, TranStar**

### Vehicle:

DuraStar 4100, 4200, 4200LP, 4300, 4300LP, 4400, 4400LP, 4700, 4700LP, 4700LPX, 4800, 4900, Hybrid, Mid-Cab. WorkStar 7300, 7400, 7500, 7600, 7700, Hybrid. TranStar 8100, 8100CH, 8200, 8500, 8600 (2015-Present)

- Fits 1 - 1 1/8" tube

### NOTES

- CB** Bracket assembly furnished with wiring harness for CB
- Look Down** Bracket assembly furnished with black or chrome look down mirror
- U** Bracket assembly furnished with wiring harness for lighted flat (upper) mirror
- U/L** Bracket assembly furnished with wiring harness for heated flat (upper) mirror and convex (lower) mirror
- AAT** Bracket assembly furnished with wiring harness for AAT sensor



### Bracket Assemblies

Model	Part #	O.E.M.	Side	Color	M/R	Heat	CB	Look Down	U	U/L	AAT
466	V584660019	2514650C1	Left	Stainless	Remote	•	•	-	•	•	•
466	V584660120	2514652C1	Right	Stainless	Remote	•	•	Chrome	•	•	-
466	V584660020	2514651C1	Right	Stainless	Remote	•	•	-	•	•	-
466	V584660017	2514647C1	Left	Stainless	Remote	•	-	-	•	•	•
466	V584660118	2514649C1	Right	Stainless	Remote	•	-	Chrome	•	•	-
466	V584660018	2514648C1	Right	Stainless	Remote	•	-	-	•	•	-
466	V584660009	2514408C1	Left	Black	Remote	•	•	-	-	•	•
466	V584660110	2514645C1	Right	Black	Remote	•	•	Black	-	•	-
466	V584660010	2514409C1	Right	Black	Remote	•	•	-	-	•	-
466	V584660007	2514405C1	Left	Black	Remote	•	-	-	-	•	•
466	V584660108	2514407C1	Right	Black	Remote	•	-	Black	-	•	-
466	V584660008	2514406C1	Right	Black	Remote	•	-	-	-	•	-
466	V584660005	2514396C1	Left	Black	Manual	•	•	-	-	•	•
466	V584660106	2514398C1	Right	Black	Manual	•	•	Black	-	•	-
466	V584660006	2514397C1	Right	Black	Manual	•	•	-	-	•	-
466	V584660104	2514395C1	Right	Black	Manual	•	-	Black	-	•	-
466	V584660003	2514393C1	Left	Black	Manual	•	-	-	-	•	•
466	V584660004	2514394C1	Right	Black	Manual	•	-	-	-	•	-
466	V584660001	2514390C1	Left	Black	Manual	-	-	-	-	-	•
466	V584660102	2514392C1	Right	Black	Manual	-	-	Black	-	-	-
466	V584660023	2514654C1	Left	Black	Manual	-	-	-	-	-	-
466	V584660002	2514391C1	Right	Black	Manual	-	-	-	-	-	-

**M/R** Manual / remote



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### 466 System Continued

#### Flat Glass Housing Head adjustable. Order glass to make complete head

Model	Part #	O.E.M.	Glass Size	Side	Color	M/R	Heat	Light
466	V614660009	2514663C91	7½"w x 14"h	Left	Chrome	Remote	•	•
466	V614660008	2514662C91	7½"w x 14"h	Right	Chrome	Remote	•	•
466	V614660007	2514661C91	7½"w x 14"h	Both	Chrome	Manual	-	-
466	V614660006	2514660C91	7½"w x 14"h	Both	Black	Remote	-	-
466	V614660005	2514659C91	7½"w x 14"h	Both	Black	Manual	-	-

#### Flat Glass Kit

Model	Part #	O.E.M.	Glass Size	Side	Color	M/R	Heat
466	V614660001	2514655C91	7½"w x 14"h	Both	n/a	Both	•

#### Convex Glass Housing Head adjustable. Order glass to make complete head

Model	Part #	O.E.M.	Glass Size	Side	Color	M/R	Heat	Light
466	V614660011	2514665C91	7¾"w x 6¾"h	Both	Chrome	Manual	•	-
466	V614660010	2514664C91	7¾"w x 6¾"h	Both	Black	Manual	•	-

#### Convex Glass Kit

Model	Part #	O.E.M.	Glass Size	Side	Color	M/R	Heat
466	V614660002	2514656C91	7¾"w x 6¾"h	Both	n/a	Both	•

#### Flat Mirror Actuator

Model	Part #	O.E.M.	Side
466	V614660004	2514658C91	Both

#### Flat Head Size

7⅞"w x 14⅜"h x 2¾"d

#### Convex Head Size

7¾"w x 7"h x 2¾"d

#### Convex Look Down Mirror (Optional) No mirror holder provided

Model	Part #	O.E.M.	Glass Size	Side	Color	M/R	Heat	Light
360	V563600260	2506220C91 2506220C92	10⅝"w x 6¼"h	Right	Chrome	Manual	-	-
360	V563600160	-	10⅝"w x 6¼"h	Right	Black	Manual	-	-

#### Accessories

##### • Marker Light Kit

Model 466 | Part # V614660003  
(OEM 2514657C91)

# MIRRORS

## INTERNATIONAL

### 404 System | DuraStar



#### Vehicle:

DuraStar 4100, 4200, 4200LP, 4300, 4300LP, 4400, 4400LP, 4700, 4700LP, 4700LPX, 4800, 4900, Hybrid, Mid-Cab (2002-Present)

- 1 1/8" tube

#### Head Adjustable

- Convex head size: 7 1/4" w x 7 1/4" h x 3" d

#### Glass Adjustable

- Convex head size: 8 7/16" w x 6 5/8" h x 4 1/2" d

#### Fender Bracket Assembly No head provided

Model	Left Bracket #	Right Bracket #	Color	Material	Heat
404	V584049201	V584049202	Stainless	Stainless	-
404	V584049211	V584049212	Black	Steel	-

#### Accessories

- **Head Clamp & Screw Kit**  
Model 405 | Part # V624059999 (OEM 2507274C1)

#### Convex Glass Head Head adjustable

Model	Part #	O.E.M.	Glass size	Side	Color	M/R	Heat	Light
388	V563882208	2507272C1	6 3/4" w x 6 3/4" h	Both	Chrome	Manual	-	-
409	V564090013	-	6 3/4" w x 6 3/4" h	Both	Black	Manual	-	-

#### Convex Glass Head Glass adjustable

Model	Part #	Glass size	Side	Color	M/R	Heat	Light
428	V564281013 <sup>1</sup>	7 3/4" w x 5 3/4" h	Both	Chrome	Manual	-	-
428	V564281001	7 3/4" w x 5 3/4" h	Both	Black	Manual	-	-

#### Convex Glass Kit

Model	Part #	O.E.M.	Glass Size	Side	Color	M/R	Heat
388/409	V153882120	2507273C1	6 3/4" w x 6 3/4" h	Both	Black	Manual	-
428	V154280001	-	7 3/4" w x 5 3/4" h	Both	Black	Manual	-
428	V614280008 <sup>2</sup>	-	7 3/4" w x 5 3/4" h	Both	Black	Manual	-

#### Convex Mirror Cover

Model	Part #	Side	Color	Light
428	V134281015	Both	Chrome	-
428	V134281011	Both	Black	-

#### NOTES

**M/R** Manual / remote

\* Vertical bracket on Bracket Assembly is 3 13/16" longer (taller) than OEM standard bracket in order to accommodate either Head Adjustable or Glass Adjustable mirror options

<sup>1</sup> Chrome backcover with chrome housing

<sup>2</sup> Includes housing



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LoneStar | **Standard Mirror** | **454 System**



Flat Glass Kit



Convex Glass Kit

### Vehicle:

LoneStar Daycab, Sleeper Cab, Harley (2008-Present)

- 5/16-18 UNC Thread both ends

### Flat Head Size

7¼" w x 15⅞" h x 3" d

### Convex Head Size

7¼" w x 7¼" h x 3" d

### Accessories

- **Marker Light Assembly**

Model 438 | Part # V084380005  
(OEM 2596753C91)

- **Marker Light Kit w/ Chrome Bezel**

Model 438 | Part # V614380005  
(OEM 2602168C1)

### Flat Glass Mirror Housing Head adjustable. Order glass to make complete head

Model	Part #	O.E.M.	Glass Size	Side	Color	M/R	Heat	Light
438	V514384544	2598604C1	6⅞" w x 16" h	Right	Stainless	Remote	•	•
438	V514384543	2598606C1	6⅞" w x 16" h	Left	Stainless	Remote	•	•

### Flat Glass Kit

Model	Part #	O.E.M.	Glass Size	Side	Color	M/R	Heat
438	V154382117	2595727C1	6⅞" w x 16" h	Both	Black	Both	•

### Convex Glass Housing Head adjustable. Order glass to make complete head

Model	Part #	O.E.M.	Glass Size	Color	M/R	Heat	Light
388	V563882218	2598602C1	6¾" w x 6¾" h	Chrome	Manual	•	-

### Convex Glass Kit

Model	Part #	O.E.M.	Glass Size	Side	Color	M/R	Heat
388	V153882117	2598603C1	6¾" w x 6¾" h	Both	Black	Manual	•

### Convex Look Down Mirror (Optional) No mirror holder provided

Model	Part #	O.E.M.	Glass Size	Side	Color	M/R	Heat	Light
360	V563600260	2506220C91 2506220C92	10⅝" w x 6¼" h	Right	Chrome	Manual	-	-

### NOTES

**M/R** Manual / remote

Bracket not available. Contact OE to purchase.

# MIRRORS

## INTERNATIONAL

425 System | Premium Mirror | LoneStar



Flat Glass Kit



Convex Glass Kit

### Head Size

9 1/8" w x 23 3/4" h x 6 1/8" d

### Vehicle:

LoneStar Daycab, Sleeper Cab,  
Harley (2008-Present)

- Fits 1 1/8" tube

### NOTES

- CB** Bracket assembly furnished with wiring harness for CB
- Look Down** Bracket assembly furnished with black or chrome look down mirror
- L** Bracket assembly furnished with wiring harness for convex (lower) mirror turn signal
- U** Bracket assembly furnished with wiring harness for lighted flat (upper) mirror
- U/L** Bracket assembly furnished with wiring harness for heated flat (upper) mirror and convex (lower) mirror
- M/R** Manual / remote

### Bracket Assemblies

Model	Part #	O.E.M.	Side	Color	M/R	Heat	CB	Look Down	L	U	U/L
425	V584004021	2505300C4	Left	Black	Manual	•	•	-	-	•	•
425	V584004630	2604799C1	Right	Black	Manual	•	•	-	-	•	•
425	V584004025	-	Left	Black	Remote	•	-	-	-	•	•
425	V584004026	2506299C3	Right	Black	Remote	•	-	-	-	•	•
425	V584004028	2505324C3	Right	Black	Remote	•	-	Black	-	•	•
425	V584004029	2505811C3	Left	Black	Remote	•	•	-	-	•	•
425	V584004030	2506300C4	Right	Black	Remote	•	•	-	-	•	•
425	V584004032	2505302C4	Right	Black	Remote	•	•	Black	-	•	•
425	V584004624	2505812C3	Right	Black	Remote	•	•	Chrome	-	•	•
425	V584004525	-	Left	Stainless	Manual	•	-	-	-	•	•
425	V584004526	2599424C1	Right	Stainless	Manual	•	-	-	-	•	•
425	V584004528	2599423C1	Right	Stainless	Manual	•	-	Chrome	-	•	•
425	V584004529	2599422C1	Left	Stainless	Manual	•	•	-	-	•	•
425	V584004530	2599426C1	Right	Stainless	Manual	•	•	-	-	•	•
425	V584004532	2599427C1	Right	Stainless	Manual	•	•	Chrome	-	•	•
425	V584004517	2505325C3	Left	Stainless	Remote	•	-	-	-	•	•
425	V584004518	2505326C3	Right	Stainless	Remote	•	-	-	-	•	•
425	V584004520	2505303C3	Right	Stainless	Remote	•	-	Chrome	-	•	•
425	V584004521	2506298C4	Left	Stainless	Remote	•	•	-	-	•	•
425	V584004522	2505305C4	Right	Stainless	Remote	•	•	-	-	•	•
425	V584250544	2595636C1	Right	Stainless	Remote	•	•	Black	-	•	•
425	V584004524	2505810C3	Right	Stainless	Remote	•	•	Chrome	-	•	•
425	V584250541	2595634C1	Left	Stainless	Remote	•	•	-	•	•	•
425	V584250542	2595635C1	Right	Stainless	Remote	•	•	-	•	•	•
425	V584250574	2595647C1	Right	Stainless	Remote	•	•	Black	•	•	•
425	V584250554	2595644C1	Right	Stainless	Remote	•	•	Chrome	•	•	•



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#### Flat Glass Kit

Model	Part #	O.E.M.	Glass Size	Side	Color	M/R	Heat
400	V154003107	2505818C1 2505818C2	7¼"w x 14⅞"h	Both	Black	Both	•
400	V154003100	2505817C1 2505817C2	7¼"w x 14⅞"h	Both	Black	Both	-

#### Convex Glass Kit

Model	Part #	O.E.M.	Glass Size	Side	Color	Heat
400	V154003117	2505820C1 2505820C2 2505820C3	7"w x 6⅜"h	Both	Black	•
400	V154003110	2505819C1 2505819C2	7"w x 6⅜"h	Both	Black	-
400	V154004002 <sup>1</sup>	2594622C91	7"w x 6⅜"h	Right	Black	•
400	V154004001 <sup>1</sup>	2594621C91	7"w x 6⅜"h	Left	Black	•

#### Accessories

- **Clamp Kit, 3 EA**

Model 425 | Part # V614250010  
(OEM 2595657C91)

#### NOTES

<sup>1</sup> Furnished with turn signal

<sup>2</sup> Furnished with cable assembly for turn signal

<sup>3</sup> Furnished with cable assembly without turn signal

#### Flat Mirror Actuator

Model	Part #	O.E.M.	Side
425	V094252591 <sup>2</sup>	2595653C1	Both
425	V094002590 <sup>3</sup>	2592422C1	Both

#### Convex Look Down Mirror (Optional) *No mirror holder provided*

Model	Part #	O.E.M.	Glass Size	Side	Color	M/R	Heat	Light
360	V563600260	2506220C91 2506220C92	10⅝"w x 6¼"h	Right	Chrome	Manual	-	-
360	V563600160	-	10⅝"w x 6¼"h	Right	Black	Manual	-	-

## INTERNATIONAL

420 System | Aero Mirror | PayStar



Actuator

### Vehicle:

PayStar 5000, 5070, 5500, 5600, 5900SFA, 5900SBA, 9100, 9100i, 9200, 9200i, 9300, 9400, 9400i, 9600, 9700, 9800, 9900, 9900i, 9900ix (2005-Present)

- Fits 1 $\frac{1}{8}$ " tube

### Head Size

10 $\frac{1}{8}$ "w x 24 $\frac{1}{8}$ "h x 4 $\frac{1}{2}$ "d

### NOTES

Bracket, head and glass not available.  
Contact OE to purchase.

### Flat Mirror Actuator

Model	Part #	Side
420	V084200101	Both



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Flat Glass Head



Flat Glass Kit

### Vehicle:

PayStar 5000, 5070, 5500, 5600, 5900SFA, 5900SBA. 9100, 9100i, 9200, 9200i, 9300, 9400, 9400i, 9600, 9700, 9800, 9900, 9900i, 9900ix (2004-Present)

- 5/16-18 UNC Thread both ends

### Flat Head Size

7¼"w x 15⅞"h x 3"d

### Accessories

- **Marker Light Kit**

Model 421 | Part # V614210001  
(OEM 2596752C91)

### Flat Glass Head Head adjustable

Model	Part #	O.E.M.	Glass Size	Side	Color	M/R	Heat	Light
438	V514380014 <sup>1</sup>	2503919C92	6⅞"w x 16"h	Right	Stainless	Remote	•	•
438	V514380013 <sup>1</sup>	2596749C91	6⅞"w x 16"h	Left	Stainless	Remote	•	•
438	V514380012 <sup>1</sup>	2503923C92	6⅞"w x 16"h	Right	Stainless	Remote	•	-
438	V514380011 <sup>1</sup>	2596747C91	6⅞"w x 16"h	Left	Stainless	Remote	•	-
438	V514380008	2596746C91	6⅞"w x 16"h	Right	Stainless	Manual	•	•
438	V514380007	2503920C92 2596745C91	6⅞"w x 16"h	Left	Stainless	Manual	•	•
438	V514380006	2503924C92	6⅞"w x 16"h	Right	Stainless	Manual	•	-
438	V514380005	2503925C92 2596743C91	6⅞"w x 16"h	Left	Stainless	Manual	•	-

### Flat Glass Kit

Model	Part #	O.E.M.	Glass Size	Side	Color	M/R	Heat
438	V154382117	2595727C1	6⅞"w x 16"h	Both	Black	Both	•

### 8" Convex Mirror Assemblies Head adjustable

Model	Part #	O.E.M.	Glass Size	Side	Color	M/R	Heat	Light
445	V564451101	2507752C3	8⅞"	Both	Stainless	Manual	-	-

### NOTES

**M/R** Manual / remote

<sup>1</sup> Two-way adjustment

Bracket not available. Contact OE to purchase.

# MIRRORS

## INTERNATIONAL

405 System | Standard Mirror | ProStar



### Vehicle:

ProStar (2006-Present)

- Fits 1 - 1 1/8" tube

### Flat Head Size

8 3/16" w x 17 3/8" h x 4 3/8" d

### Convex Head Size

8 1/8" w x 8 1/8" h x 4 7/16" d

### NOTES

**CB** Bracket assembly furnished with wiring harness for CB

**Look Down** Bracket assembly furnished with black look down mirror

**U/L** Bracket assembly furnished with wiring harness for heated flat (upper) and convex (lower) mirrors

**M/R** Manual / remote

### Bracket Assemblies

Model	Part #	O.E.M.	Side	Color	M/R	Heat	CB	Look Down	U/L
405	V584004001	2505274C3	Left	Black	Manual	-	-	-	-
405	V584004002	2505275C3	Right	Black	Manual	-	-	-	-
405	V584004004	2505278C3	Right	Black	Manual	-	-	•	-
405	V584004005	2505276C4	Left	Black	Manual	-	•	-	-
405	V584004006	2505277C4	Right	Black	Manual	-	•	-	-
405	V584005009	2589149C2	Left	Black	Manual	•	-	-	•
405	V584005010	2589150C2	Right	Black	Manual	•	-	-	•
405	V584005012	2589153C2	Right	Black	Manual	•	-	•	•
405	V584005013	2589151C2	Left	Black	Manual	•	•	-	•
405	V584005014	2589152C2	Right	Black	Manual	•	•	-	•
405	V584005016	2589154C2	Right	Black	Manual	•	•	•	•
405	V584004046	2595651C1	Right	Black	Remote	•	-	-	•
405	V584004048	2595652C1	Right	Black	Remote	•	-	•	•
405	V584004033	2589844C1	Left	Black	Remote	•	•	-	•
405	V584004034	2589847C1	Right	Black	Remote	•	•	-	•



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#### Flat Glass *Glass only*

Model	Part #	O.E.M.	Glass Size	Side	Color	M/R	Heat
405	V404055800	2505814C2	7 <sup>5</sup> / <sub>8</sub> " w x 16 <sup>3</sup> / <sub>4</sub> "h	Both	n/a	Both	•
405	V404055700	2505813C2	7 <sup>5</sup> / <sub>8</sub> " w x 16 <sup>3</sup> / <sub>4</sub> "h	Both	n/a	Both	-

#### Convex Glass *Glass only*

Model	Part #	O.E.M.	Glass Size	Side	Color	M/R	Heat
406	V404065304	2505816C2	7 <sup>5</sup> / <sub>8</sub> "w x 7 <sup>5</sup> / <sub>8</sub> "h	Both	n/a	Manual	•
406	V404065204	2505815C2	7 <sup>5</sup> / <sub>8</sub> "w x 7 <sup>5</sup> / <sub>8</sub> "h	Both	n/a	Manual	-

#### Convex Look Down Mirror (Optional) *No mirror holder provided*

Model	Part #	O.E.M.	Glass Size	Side	Color	M/R	Heat	Light
360	V563600260	2506220C91 2506220C92	10 <sup>5</sup> / <sub>8</sub> "w x 6 <sup>1</sup> / <sub>4</sub> "h	Right	Chrome	Manual	-	-
360	V563600160	-	10 <sup>5</sup> / <sub>8</sub> "w x 6 <sup>1</sup> / <sub>4</sub> "h	Right	Black	Manual	-	-

#### Accessories

- **Head Clamp & Screw Kit**  
Model 405 | Part # V624059999  
(OEM 2507274C1)

# MIRRORS

## INTERNATIONAL

425 System | Premium Mirror | ProStar



Flat Glass Kit



Convex Glass Kit

### Vehicle:

ProStar (2006-Present)

- Fits 1 1/8" tube

### Head Size

9 1/8" w x 23 3/4" h x 6 1/8" d

### NOTES

- CB** Bracket assembly furnished with wiring harness for CB
- Look Down** Bracket assembly furnished with black or chrome look down mirror
- L** Bracket assembly furnished with wiring harness for convex (lower) mirror turn signal
- U** Bracket assembly furnished with wiring harness for lighted flat (upper) mirror
- U/L** Bracket assembly furnished with wiring harness for heated flat (upper) and convex (lower) mirrors
- M/R** Manual / remote

### Bracket Assemblies

Model	Part #	O.E.M.	Side	Color	M/R	Heat	CB	Look Down	L	U	U/L
425	V584004021	2505300C4	Left	Black	Manual	-	•	-	-	•	•
425	V584004630	2604799C1	Right	Black	Manual	-	•	-	-	•	•
425	V584004025	2506299C3	Left	Black	Remote	-	-	-	-	•	•
425	V584004026	2505324C3	Right	Black	Remote	-	-	-	-	•	•
425	V584004028	2505811C3	Right	Black	Remote	-	-	Black	-	•	•
425	V584004029	2506300C4	Left	Black	Remote	•	•	-	-	•	•
425	V584004030	2505302C4	Right	Black	Remote	•	•	-	-	•	•
425	V584004032	2505812C3	Right	Black	Remote	•	•	Black	-	•	•
425	V584004624	2604803C1	Right	Black	Remote	•	•	Chrome	-	•	•
425	V584004525	-	Left	Stainless	Manual	•	-	-	-	•	•
425	V584004526	2599424C1	Right	Stainless	Manual	•	-	-	-	•	•
425	V584004528	2599423C1	Right	Stainless	Manual	•	-	Chrome	-	•	•
425	V584004529	2599422C1	Left	Stainless	Manual	•	•	-	-	•	•
425	V584004530	2599426C1	Right	Stainless	Manual	•	•	-	-	•	•
425	V584004532	2599427C1	Right	Stainless	Manual	•	•	Chrome	-	•	•
425	V584004517	2505325C3	Left	Stainless	Remote	•	-	-	-	•	•
425	V584004518	2505326C3	Right	Stainless	Remote	•	-	-	-	•	•
425	V584004520	2505303C3	Right	Stainless	Remote	•	-	Chrome	-	•	•
425	V584004521	2506298C4	Left	Stainless	Remote	•	•	-	-	•	•
425	V584004522	2505305C4	Right	Stainless	Remote	•	•	-	-	•	•
425	V584250544	2595636C1	Right	Stainless	Remote	•	•	Black	-	•	•
425	V584004524	2505810C3	Right	Stainless	Remote	•	•	Chrome	-	•	•
425	V584250541	2595634C1	Left	Stainless	Remote	•	•	-	•	•	•
425	V584250542	2595635C1	Right	Stainless	Remote	•	•	-	•	•	•
425	V584250574	2595647C1	Right	Stainless	Remote	•	•	Black	•	•	•
425	V584250554	2595644C1	Right	Stainless	Remote	•	•	Chrome	•	•	•



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#### Flat Glass Kit

Model	Part #	O.E.M.	Glass Size	Side	Color	M/R	Heat
400	V154003107	2505818C1 2505818C2	7¼" w x 14⅞"h	Both	Black	Both	•
400	V154003100	2505817C1 2505817C2	7¼" w x 14⅞"h	Both	Black	Both	-

#### Convex Glass Kit

Model	Part #	O.E.M.	Glass Size	Side	Color	M/R	Heat
400	V154003117	2505820C1 2505820C2 2505820C3	7" w x 6⅜"h	Both	Black	Manual	•
400	V154003110	2505819C1 2505819C2	7" w x 6⅜"h	Both	Black	Manual	-
400	V154004002 <sup>1</sup>	2594622C91	7" w x 6⅜"h	Right	Black	Manual	•
400	V154004001 <sup>1</sup>	2594621C91	7" w x 6⅜"h	Left	Black	Manual	•

#### Flat Mirror Actuator

Model	Part #	O.E.M.	Side
425	V094252591 <sup>2</sup>	2595653C1	Both
425	V094002590 <sup>3</sup>	2592422C1	Both

#### Accessories

##### • Clamp Kit, 3 EA

Model 425 | Part # V614250010  
(OEM 2595657C91)

#### Convex Look Down Mirror (Optional) No mirror holder provided

Model	Part #	O.E.M.	Glass Size	Side	Color	M/R	Heat	Light
360	V563600260	2506220C91 2506220C92	10⅝" w x 6¼" h	Right	Chrome	Manual	-	-
360	V563600160	-	10⅝" w x 6¼" h	Right	Black	Manual	-	-

#### NOTES

<sup>1</sup> Furnished with turn signal

<sup>2</sup> Furnished with cable assembly for turn signal

<sup>3</sup> Furnished with cable assembly without turn signal

# MIRRORS

## INTERNATIONAL

### 466 System | Universal Mirror | ProStar



Bracket Assemblies



Flat Glass Kit



Convex Glass Kit

#### Vehicle:

ProStar (2015-Present)

- Fits 1 - 1 1/8" tube

#### Flat Head Size

7 7/8" w x 14 3/8" h x 2 3/4" d

#### Convex Head Size

7 3/4" w x 7" h x 2 3/4" d

#### Bracket Assemblies

Model	Part #	O.E.M.	Side	Color	M/R	Heat	CB	Look Down	U	U/L	AAT
466	V584660019	2514650C1	Left	Stainless	Remote	•	•	-	•	•	•
466	V584660120	2514652C1	Right	Stainless	Remote	•	•	Chrome	•	•	-
466	V584660020	2514651C1	Right	Stainless	Remote	•	•	-	•	•	-
466	V584660017	2514647C1	Left	Stainless	Remote	•	-	-	•	•	•
466	V584660118	2514649C1	Right	Stainless	Remote	•	-	Chrome	•	•	-
466	V584660018	2514648C1	Right	Stainless	Remote	•	-	-	•	•	-
466	V584660009	2514408C1	Left	Black	Remote	•	•	-	-	•	•
466	V584660110	2514645C1	Right	Black	Remote	•	•	Black	-	•	-
466	V584660010	2514409C1	Right	Black	Remote	•	•	-	-	•	-
466	V584660007	2514405C1	Left	Black	Remote	•	-	-	-	•	•
466	V584660108	2514407C1	Right	Black	Remote	•	-	Black	-	•	-
466	V584660008	2514406C1	Right	Black	Remote	•	-	-	-	•	-
466	V584660005	2514396C1	Left	Black	Manual	•	•	-	-	•	•
466	V584660106	2514398C1	Right	Black	Manual	•	•	Black	-	•	-
466	V584660006	2514397C1	Right	Black	Manual	•	•	-	-	•	-
466	V584660104	2514395C1	Right	Black	Manual	•	-	Black	-	•	-
466	V584660003	2514393C1	Left	Black	Manual	•	-	-	-	•	•
466	V584660004	2514394C1	Right	Black	Manual	•	-	-	-	•	-
466	V584660001	2514390C1	Left	Black	Manual	-	-	-	-	-	•
466	V584660102	2514392C1	Right	Black	Manual	-	-	Black	-	-	-
466	V584660023	2514654C1	Left	Black	Manual	-	-	-	-	-	-
466	V584660002	2514391C1	Right	Black	Manual	-	-	-	-	-	-



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#### Flat Glass Housing Head adjustable. Order glass to make complete head

Model	Part #	O.E.M.	Glass Size	Side	Color	M/R	Heat	Light
466	V614660009	2514663C91	7½"w x 14"h	Left	Chrome	Remote	Both	•
466	V614660008	2514662C91	7½"w x 14"h	Right	Chrome	Remote	Both	•
466	V614660007	2514661C91	7½"w x 14"h	Both	Chrome	Manual	Both	-
466	V614660006	2514660C91	7½"w x 14"h	Both	Black	Remote	Both	-
466	V614660005	2514659C91	7½"w x 14"h	Both	Black	Manual	Both	-

#### Flat Glass Kit

Model	Part #	O.E.M.	Glass Size	Side	Color	M/R	Heat
466	V614660001	2514655C91	7½"w x 14" h	Both	n/a	Both	•

#### Convex Glass Housing Head adjustable. Order glass to make complete head

Model	Part #	O.E.M.	Glass Size	Color	M/R	Heat	Light
466	V614660011	2514665C91	7¾"w x 6¾"h	Chrome	Manual	•	-
466	V614660010	2514664C91	7¾"w x 6¾"h	Black	Manual	•	-

#### Convex Glass Kit

Model	Part #	O.E.M.	Glass Size	Side	Color	M/R	Heat
466	V614660002	2514656C91	7¾"w x 6¾"h	Both	n/a	Manual	•

#### Flat Mirror Actuator

Model	Part #	O.E.M.	Side
466	V614660004	2514658C91	Both

#### Accessories

##### • Marker Light Kit

Model 466 | Part # V614660003  
(OEM 2514657C91)

#### Convex Look Down Mirror (Optional) No mirror holder provided

Model	Part #	O.E.M.	Glass Size	Color	M/R	Heat	Light
360	V563600260	2506220C91 2506220C92	10⅝"w x 6¼"h	Chrome	Manual	-	-
360	V563600160	-	10⅝"w x 6¼"h	Black	Manual	-	-

#### NOTES

- CB** Bracket assembly furnished with wiring harness for CB
- Look Down** Bracket assembly furnished with black or chrome look down mirror
- U** Bracket assembly furnished with wiring harness for lighted flat (upper) mirror
- U/L** Bracket assembly furnished with wiring harness for heated flat (upper) and convex (lower) mirrors
- AAT** Bracket assembly furnished with wiring harness for AAT sensor
- M/R** Manual / remote

# MIRRORS

## INTERNATIONAL

### 404 System | ProStar



#### Vehicle:

ProStar (2006-Present)

- 1 1/8" tube

#### Head Adjustable

- Convex head size:  
7 1/4" w x 7 1/4" h x 3" d
- Mirror size: 6 3/4" w x 6 3/4" h

#### Glass Adjustable

- Convex head size:  
8 7/16" w x 6 5/8" h x 4 1/2" d
- Mirror size: 7 3/4" w x 5 3/4" h

#### Accessories

- **Head Clamp & Screw Kit**

Model 405 | Part # V624059999  
(OEM 2507274C1)

#### Fender Bracket Assembly *No head provided*

Model	Left Bracket #	Right Bracket #	Color	Material	Heat
404	V584049001	V584049002	Stainless	Stainless	-
404	V584049011	V584049012	Black	Steel	-

#### Convex Glass Head *Head adjustable*

Model	Part #	O.E.M.	Glass Size	Side	Color	M/R	Heat	Light
388	V563882208	2507272C1	6 3/4" w x 6 3/4" h	Both	Chrome	Manual	-	-
409	V564090013	-	6 3/4" w x 6 3/4" h	Both	Black	Manual	-	-

#### Convex Glass Head *Glass adjustable*

Model	Part #	Glass Size	Side	Color	M/R	Heat	Light
428	V564281013 <sup>1</sup>	7 3/4" w x 5 3/4" h	Both	Chrome	Manual	-	-
428	V564281001	7 3/4" w x 5 3/4" h	Both	Black	Manual	-	-

#### Convex Glass Kit

Model	Part #	O.E.M.	Glass Size	Side	Color	M/R	Heat
388/409	V153882120	2507273C1	6 3/4" w x 6 3/4" h	Both	Black	Manual	-
428	V154280001	-	7 3/4" w x 5 3/4" h	Both	Black	Manual	-
428	V614280008 <sup>2</sup>	-	7 3/4" w x 5 3/4" h	Both	Black	Manual	-

#### Convex Mirror Cover

Model	Part #	Side	Color	Light
428	V134281015	Both	Chrome	-
428	V134281011	Both	Black	-

#### NOTES

**M/R** Manual / remote

\*Vertical bracket on Bracket Assembly is 1 9/16" longer (taller) than OEM standard bracket, in order to accommodate either Head Adjustable or Glass Adjustable mirror options

<sup>1</sup> Chrome backcover with chrome housing

<sup>2</sup> Includes housing



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S-Series | **West Coast Mirrors**



*International plug*

**Vehicle:**

S-series and other trucks

**Housing Size**

- 7" x 16" aluminum head
- Order 713198 loop and bracket kit separately

**West Coast Mirror Head**

Part #	Fletridge Part #	Navistar Part #	Cham-Cal Part #	Side	Heat
708335	MIR4070	1657021C91 1657048C91	20000	Both	-
708336	MIR4071	1667899C91	20090	Right	•
708337	MIR4074	1669515C91	20080	Left	•

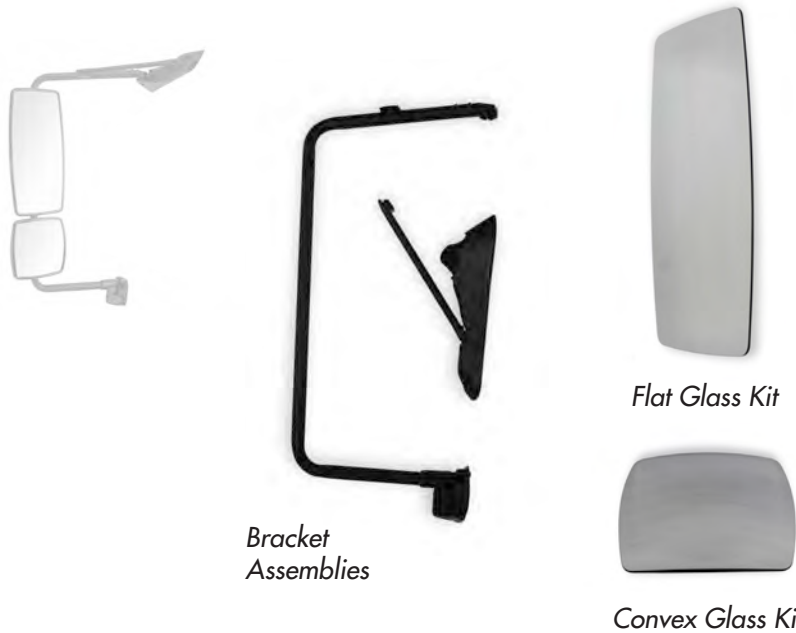
**Loop and Bracket Assembly**

Part #	Description
713198	Loop and bracket assembly

# MIRRORS

## INTERNATIONAL

405 System | Standard Mirror | TerraStar



### Vehicle:

TerraStar Class 4/5 (2010-Present)

- Fits 1 - 1 1/8" tube

### Flat Head Size

8 3/16" w x 17 3/8" h x 4 3/8" d

### Convex Head Size

8 1/8" w x 8 1/8" h x 4 7/16" d

### NOTES

**CB** Bracket assembly furnished with wiring harness for CB

**Look Down** Bracket assembly furnished with black look down mirror

**U/L** Bracket assembly furnished with wiring harness for heated flat (upper) and convex (lower) mirrors

**M/R** Manual / remote

### Bracket Assemblies

Model	Part #	O.E.M.	Side	Color	M/R	Heat	CB	Look Down	U/L
405	V584004001	2505274C3	Left	Black	Manual	-	-	-	-
405	V584004002	2505275C3	Right	Black	Manual	-	-	-	-
405	V584004004	2505278C3	Right	Black	Manual	-	-	•	-
405	V584004005	2505276C4	Left	Black	Manual	-	•	-	-
405	V584004006	2505277C4	Right	Black	Manual	-	•	-	-
405	V584005009	2589149C2	Left	Black	Manual	•	-	-	•
405	V584005010	2589150C2	Right	Black	Manual	•	-	-	•
405	V584005012	2589153C2	Right	Black	Manual	•	-	•	•
405	V584005013	2589151C2	Left	Black	Manual	•	•	-	•
405	V584005014	2589152C2	Right	Black	Manual	•	•	-	•
405	V584005016	2589154C2	Right	Black	Manual	•	•	•	•
405	V584004046	2595651C1	Right	Black	Remote	•	-	-	•
405	V584004048	2595652C1	Right	Black	Remote	•	-	•	•
405	V584004033	2589844C1	Left	Black	Remote	•	•	-	•
405	V584004034	2589847C1	Right	Black	Remote	•	•	-	•



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#### Flat Glass Kit *Glass only*

Model	Part #	O.E.M.	Glass Size	Side	Color	M/R	Heat
405	V404055800	2505814C2	7 <sup>5</sup> / <sub>8</sub> " w x 16 <sup>3</sup> / <sub>4</sub> "h	Both	n/a	Both	•
405	V404055700	2505813C2	7 <sup>5</sup> / <sub>8</sub> " w x 16 <sup>3</sup> / <sub>4</sub> "h	Both	n/a	Both	-

#### Convex Glass Kit *Glass only*

Model	Part #	O.E.M.	Glass Size	Side	Color	M/R	Heat
406	V404065304	2505816C2	7 <sup>5</sup> / <sub>8</sub> " w x 7 <sup>5</sup> / <sub>8</sub> "h	Both	n/a	Manual	•
406	V404065204	2505815C2	7 <sup>5</sup> / <sub>8</sub> " w x 7 <sup>5</sup> / <sub>8</sub> "h	Both	n/a	Manual	-

#### Convex Look Down Mirror (Optional) *No mirror holder provided*

Model	Part #	O.E.M.	Glass Size	Side	Color	M/R	Heat	Light
360	V563600260	2506220C91 2506220C92	10 <sup>5</sup> / <sub>8</sub> " w x 6 <sup>1</sup> / <sub>4</sub> "h	Right	Chrome	Manual	-	-
360	V563600160	-	10 <sup>5</sup> / <sub>8</sub> " w x 6 <sup>1</sup> / <sub>4</sub> "h	Right	Black	Manual	-	-

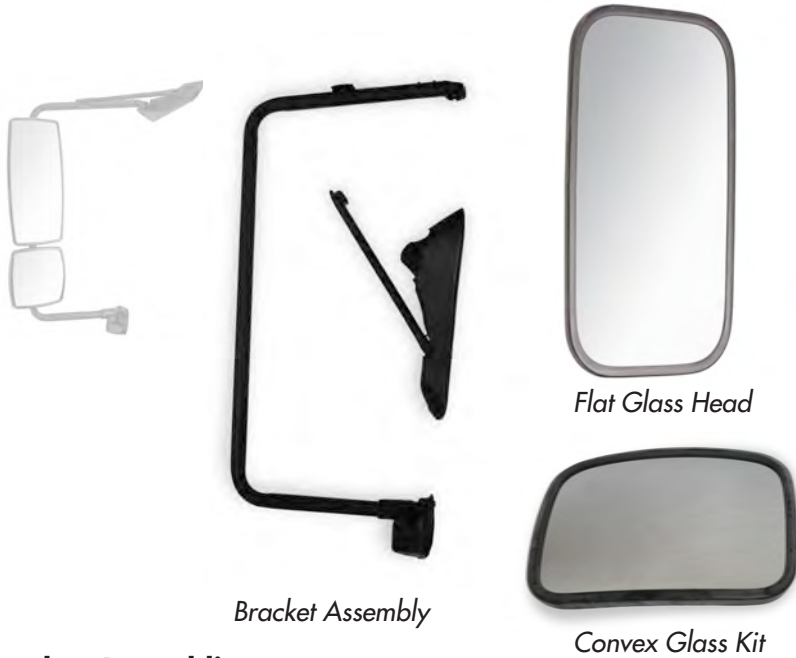
#### Accessories

- **Head Clamp & Screw Kit**  
Model 405 | Part # V624059999  
(OEM 2507274C1)

# MIRRORS

## INTERNATIONAL

463 System | Standard Mirror | TerraStar



### Vehicle:

TerraStar Class 4/5 (2010-Present)

- Fits 1 - 1 1/8" tube

### Flat Head Size

7 1/4"w x 12 3/8"h x 3 1/2"d

### Convex Head Size

8 7/8"w x 6 7/8"h x 4 1/8"d

### Accessories

- **Head Clamp & Screw Kit**

Model 405 | Part # V624059999  
(OEM 2507274C1)

### NOTES

**M/R** Manual / remote

### Bracket Assemblies

Model	Part #	O.E.M.	Side	Color	M/R	Heat
463	V584004001	2505274C3	Left	Black	Manual	-
463	V584004002	2505275C3	Right	Black	Manual	-

### Flat Glass Head Head adjustable

Model	Part #	O.E.M.	Glass Size	Side	Color	M/R	Heat	Light
408	V514080002	2588800C2	6 3/4"w x 12"h	Both	Black	Manual	-	-

### Convex Glass Head Head adjustable

Model	Part #	O.E.M.	Glass Size	Side	Color	M/R	Heat	Light
408	V564080002	2588801C2	8"w x 6"h	Both	Black	Manual	-	-



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TerraStar | Premium Mirror | 400 System



Flat Glass Kit



Convex Glass Kit

### Vehicle:

TerraStar Class 4/5 (2010-Present)

- Fits 1 - 1 1/8" tube

### Head Size

8 3/4" w x 24 3/4" h x 5 3/8" d

### NOTES

- CB** Bracket assembly furnished with wiring harness for CB
- Look Down** Bracket assembly furnished with black or chrome look down mirror
- U** Bracket assembly furnished with wiring harness for lighted flat (upper) mirror
- U/L** Bracket assembly furnished with wiring harness for heated flat (upper) and convex (lower) mirrors

**M/R** Manual / remote

### 102 Inch Wide Bracket Assemblies

Model	Part #	O.E.M.	Side	Color	M/R	Heat	CB	Look Down	U	U/L
400	V584004025	2506299C3	Left	Black	Remote	•	-	-	•	•
400	V584004026	2505324C3	Right	Black	Remote	•	-	-	•	•
400	V584004028	2505811C3	Right	Black	Remote	•	-	Black	•	•
400	V584004029	2506300C4	Left	Black	Remote	•	•	-	•	•
400	V584004030	2505302C4	Right	Black	Remote	•	•	-	•	•
400	V584004032	2505812C3	Right	Black	Remote	•	•	Black	•	•
400	V584004501	2505320C3	Left	Stainless	Manual	-	-	-	-	-
400	V584004502	2505321C3	Right	Stainless	Manual	-	-	-	-	-
400	V584004504	2505301C3	Right	Stainless	Manual	-	-	Chrome	-	-
400	V584004505	2505296C4	Left	Stainless	Manual	-	•	-	-	-
400	V584004506	2505298C4	Right	Stainless	Manual	-	•	-	-	-
400	V584004509	2509017C3	Left	Stainless	Manual	•	-	-	•	•
400	V584004526	2599424C1	Right	Stainless	Manual	•	-	-	•	•
400	V584004528	2599423C1	Right	Stainless	Manual	•	-	Chrome	•	•
400	V584004513	2505304C4	Left	Stainless	Manual	•	•	-	•	•
400	V584004530	2599426C1	Right	Stainless	Manual	•	•	-	•	•
400	V584004532	2599427C1	Right	Stainless	Manual	•	•	Chrome	•	•
400	V584004517	2505325C3	Left	Stainless	Remote	•	-	-	•	•
400	V584004518	2505326C3	Right	Stainless	Remote	•	-	-	•	•
400	V584004520	2505303C3	Right	Stainless	Remote	•	-	Chrome	•	•
400	V584004521	2506298C4	Left	Stainless	Remote	•	•	-	•	•
400	V584004522	2505305C4	Right	Stainless	Remote	•	•	-	•	•
400	V584004524	2505810C3	Right	Stainless	Remote	•	•	Chrome	•	•

## INTERNATIONAL

### 400 System

Continued

#### 96 Inch Wide Bracket Assemblies

Model	Part #	O.E.M.	Side	Color	M/R	Heat	U	U/L
400	V584004535	2596626C1	Left	Stainless	Remote	•	•	•
400	V584004536	2589850C1	Right	Stainless	Remote	•	•	•

#### Flat Glass Kit

Model	Part #	O.E.M.	Glass Size	Side	Color	M/R	Heat
400	V154003107	2505818C1 2505818C2	7¼"w x 14⅞"h	Both	Black	Both	•
400	V154003100	2505817C1 2505817C2	7¼"w x 14⅞"h	Both	Black	Both	-

#### Convex Glass Kit

Model	Part #	O.E.M.	Glass Size	Side	Color	M/R	Heat
400	V154003117	2505820C1 2505820C2 2505820C3	7"w x 6⅜"h	Both	Black	Manual	•
400	V154003110	2505819C1 2505819C2	7"w x 6⅜"h	Both	Black	Manual	-
400	V154004002 <sup>1</sup>	2594622C91	7"w x 6⅜"h	Right	Black	Manual	•
400	V154004001 <sup>1</sup>	2594621C91	7"w x 6⅜"h	Left	Black	Manual	•

#### Flat Mirror Actuators

Model	Part #	O.E.M.	Side
400	V094002590 <sup>2</sup>	2592422C1	Both
425	V094252591 <sup>3</sup>	2595653C1	Both

#### Accessories

- **CB Antenna Holder Assembly**  
Model 400 | Part # V084002002  
(OEM 2506242C92)
- **Replacement CB Harness**  
Model 400 | Part # V084000100  
(OEM 2506241C91)

#### Convex Look Down Mirror (Optional) *No mirror holder provided*

Model	Part #	O.E.M.	Glass Size	Side	Color	M/R	Heat	Light
360	V563600260	2506220C91 2506220C92	10⅝"w x 6¼"h	Right	Chrome	Manual	-	-
360	V563600160	-	10⅝"w x 6¼"h	Right	Black	Manual	-	-

- **Head Clamp & Screw Kit**  
Model 400 | Part # V614000010  
(OEM 2506236C91)

#### NOTES

- <sup>1</sup> Furnished with turn signal
- <sup>2</sup> Furnished with cable assembly without turn signal
- <sup>3</sup> Furnished with cable assembly for turn signal



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TerraStar | Premium Mirror | 466 System



Flat Glass



Convex Glass

Bracket Assemblies

### Vehicle:

TerraStar Class 4/5 (2015-Present)

- Fits 1 - 1 $\frac{1}{8}$ " tube

### Flat Head Size

7 $\frac{7}{8}$ "w x 14 $\frac{3}{8}$ "h x 2 $\frac{3}{4}$ "d

### Convex Head Size

7 $\frac{3}{4}$ "w x 7"h x 2 $\frac{3}{4}$ "d

### Bracket Assemblies

Model	Part #	O.E.M.	Side	Color	M/R	Heat	CB	Look Down	U	U/L	AAT
466	V584660019	2514650C1	Left	Stainless	Remote	•	•	-	•	•	•
466	V584660120	2514652C1	Right	Stainless	Remote	•	•	Chrome	•	•	-
466	V584660020	2514651C1	Right	Stainless	Remote	•	•	-	•	•	-
466	V584660017	2514647C1	Left	Stainless	Remote	•	-	-	•	•	•
466	V584660118	2514649C1	Right	Stainless	Remote	•	-	Chrome	•	•	-
466	V584660018	2514648C1	Right	Stainless	Remote	•	-	-	•	•	-
466	V584660009	2514408C1	Left	Black	Remote	•	•	-	-	•	•
466	V584660110	2514645C1	Right	Black	Remote	•	•	Black	-	•	-
466	V584660010	2514409C1	Right	Black	Remote	•	•	-	-	•	-
466	V584660007	2514405C1	Left	Black	Remote	•	-	-	-	•	•
466	V584660108	2514407C1	Right	Black	Remote	•	-	Black	-	•	-
466	V584660008	2514406C1	Right	Black	Remote	•	-	-	-	•	-
466	V584660005	2514396C1	Left	Black	Manual	•	•	-	-	•	•
466	V584660106	2514398C1	Right	Black	Manual	•	•	Black	-	•	-
466	V584660006	2514397C1	Right	Black	Manual	•	•	-	-	•	-
466	V584660104	2514395C1	Right	Black	Manual	•	-	Black	-	•	-
466	V584660003	2514393C1	Left	Black	Manual	•	-	-	-	•	•
466	V584660004	2514394C1	Right	Black	Manual	•	-	-	-	•	-
466	V584660001	2514390C1	Left	Black	Manual	-	-	-	-	-	•
466	V584660102	2514392C1	Right	Black	Manual	-	-	Black	-	-	-
466	V584660023	2514654C1	Left	Black	Manual	-	-	-	-	-	-
466	V584660002	2514391C1	Right	Black	Manual	-	-	-	-	-	-

### NOTES

- CB** Bracket assembly furnished with wiring harness for CB
- Look Down** Bracket assembly furnished with black or chrome look down mirror
- U** Bracket assembly furnished with wiring harness lighted flat (upper) mirror

- U/L** Bracket assembly furnished with wiring harness for heated flat (upper) and convex (lower) mirrors
- AAT** Bracket assembly furnished with wiring harness for AAT sensor
- M/R** Manual / remote

## INTERNATIONAL

### 466 System

Continued

#### Accessories

##### • Marker Light Kit

Model 466 | Part # V614660003  
(OEM 2514657C91)

#### Flat Glass Housing Head adjustable. Order glass to make complete head

Model	Part #	O.E.M.	Glass Size	Side	Color	M/R	Heat	Light
466	V614660009	2514663C91	7½"w x 14"h	Left	Chrome	Remote	Both	•
466	V614660008	2514662C91	7½"w x 14"h	Right	Chrome	Remote	Both	•
466	V614660007	2514661C91	7½"w x 14"h	Both	Chrome	Manual	Both	-
466	V614660006	2514660C91	7½"w x 14"h	Both	Black	Remote	Both	-
466	V614660005	2514659C91	7½"w x 14"h	Both	Black	Manual	Both	-

#### Flat Glass Kit

Model	Part #	O.E.M.	Glass Size	Side	Color	M/R	Heat
466	V614660001	2514655C91	7½"w x 14"h	Both	n/a	Both	•

#### Convex Glass Housing Head adjustable. Order glass to make complete head

Model	Part #	O.E.M.	Glass Size	Color	M/R	Heat	Light
466	V614660011	2514665C91	7⅜"w x 6¾"h	Chrome	Manual	•	-
466	V614660010	2514664C91	7⅜"w x 6¾"h	Black	Manual	•	-

#### Convex Glass Kit

Model	Part #	O.E.M.	Glass Size	Side	Color	M/R	Heat
466	V614660002	2514656C91	7⅜"w x 6¾"h	Both	n/a	Manual	•

#### Flat Mirror Actuator

Model	Part #	O.E.M.	Side
466	V614660004	2514658C91	Both

#### Convex Look Down Mirror (Optional) No mirror holder provided

Model	Part #	O.E.M.	Glass Size	Side	Color	M/R	Heat	Light
360	V563600260	2506220C91 2506220C92	10⅝"w x 6¼"h	Right	Chrome	Manual	-	-
360	V563600160	-	10⅝"w x 6¼"h	Right	Black	Manual	-	-



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### Vehicle:

TranStar 8100, 8100CH, 8200, 8500, 8600 (2002-Present)

- Fits 1 1/8" tube

### Head Adjustable

- Convex head size: 7 1/4" w x 7 1/4" h x 3" d

### Glass Adjustable

- Convex head size: 8 7/16" w x 6 5/8" h x 4 1/2" d

### Accessories

#### • Head Clamp & Screw Kit

Model 405 | Part # V624059999  
(OEM 2507274C1)

### Fender Bracket Assembly *No head provided*

Model	Left Bracket #	Right Bracket #	Color	Material	Heat
404	V584049101	V584049102	Stainless	Stainless	-
404	V584049111	V584049112	Black	Steel	-

### Convex Glass Head *Head adjustable*

Model	Part #	O.E.M.	Glass Size	Side	Color	M/R	Heat	Light
388	V563882208	2507272C1	6 3/4" w x 6 3/4" h	Both	Chrome	Manual	-	-
409	V564090013	-	6 3/4" w x 6 3/4" h	Both	Black	Manual	-	-

### Convex Glass Head *Glass adjustable*

Model	Part #	Glass Size	Side	Color	M/R	Heat	Light
428	V564281013 <sup>1</sup>	7 3/4" w x 5 3/4" h	Both	Chrome	Manual	-	-
428	V564281001	7 3/4" w x 5 3/4" h	Both	Black	Manual	-	-

### Convex Glass Kit

Model	Part #	O.E.M.	Glass Size	Side	Color	M/R	Heat
388	V153882120	2507273C1	6 3/4" w x 6 3/4" h	Both	Black	Manual	-
428	V154280001	-	7 3/4" w x 5 3/4" h	Both	Black	Manual	-
428	V614280008 <sup>2</sup>	-	7 3/4" w x 5 3/4" h	Both	Black	Manual	-

### Convex Mirror Cover

Model	Part #	Side	Color	Light
428	V134281015	Both	Chrome	-
428	V134281011	Both	Black	-

### NOTES

**M/R** Manual / remote

\*Vertical bracket on Bracket Assembly is 1 15/16" longer (taller) than OEM standard bracket, in order to accommodate either Head Adjustable or Glass Adjustable mirror options

<sup>1</sup> Chrome backcover with chrome housing

<sup>2</sup> Includes housing

# MIRRORS

## INTERNATIONAL

### 404 System | WorkStar



#### Vehicle:

WorkStar 7300, 7400, 7500, 7600, 7700, Hybrid (2002-Present)

- Fits 1 1/8" tube

#### Head Adjustable

- Convex head size: 7 1/4" w x 7 1/4" h x 3" d

#### Glass Adjustable

- Convex head size: 8 7/16" w x 6 5/8" h x 4 1/2" d

#### Accessories

- **Head Clamp & Screw Kit**

Model 405 | Part # V624059999 (OEM 2507274C1)

#### Fender Bracket Assembly No head provided

Model	Left Bracket #	Right Bracket #	Color	Material	Heat
404	V584049301	V584049302	Stainless	Stainless	-
404	V584049311	V584049312	Black	Steel	-

#### Convex Glass Head Head adjustable

Model	Part #	O.E.M.	Glass Size	Side	Color	M/R	Heat	Light
388	V563882208	2507272C1	6 3/4" w x 6 3/4" h	Both	Chrome	Manual	-	-
409	V564090013	-	6 3/4" w x 6 3/4" h	Both	Black	Manual	-	-

#### Convex Glass Head Glass adjustable

Model	Part #	Glass Size	Side	Color	M/R	Heat	Light
428	V564281013 <sup>1</sup>	7 3/4" w x 5 3/4" h	Both	Chrome	Manual	-	-
428	V564281001	7 3/4" w x 5 3/4" h	Both	Black	Manual	-	-

#### Convex Glass Kit

Model	Part #	O.E.M.	Glass Size	Side	Color	M/R	Heat
388	V153882120	2507273C1	6 3/4" w x 6 3/4" h	Both	Black	Manual	-
428	V154280001	-	7 3/4" w x 5 3/4" h	Both	Black	Manual	-
428	V614280008 <sup>2</sup>	-	7 3/4" w x 5 3/4" h	Both	Black	Manual	-

#### Convex Mirror Cover

Model	Part #	Side	Color	Light
428	V134281015	Both	Chrome	-
428	V134281011	Both	Black	-

#### NOTES

**M/R** Manual / remote

\*Vertical bracket on Bracket Assembly is 2 1/16" longer (taller) than OEM standard bracket, in order to accommodate either Head Adjustable or Glass Adjustable mirror options

<sup>1</sup> Chrome backcover with chrome housing

<sup>2</sup> Includes housing



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## INTERNATIONAL

Various | **Look Down Mirrors**



Convex Look Down Mirror

Convex Glass Kit

**Vehicle:**

Various (2001-2005)

**Bracket Mount**

**Convex Head Size**

11<sup>3</sup>/<sub>16</sub>"w x 6<sup>7</sup>/<sub>8</sub>"h x 2<sup>7</sup>/<sub>16</sub>"d

**Bracket Hole Location**

**Width Between Holes:**

3<sup>1</sup>/<sub>16</sub>"

**Hole Size:**

1<sup>1</sup>/<sub>64</sub>"

**NOTES**

**M/R** Manual / remote

<sup>1</sup> Furnished with black arm, chrome back cover, black bezel and black holder

<sup>2</sup> Furnished with black arm, black back cover, black bezel and black holder

<sup>3</sup> Includes bezel kit

### Convex Look Down Mirror

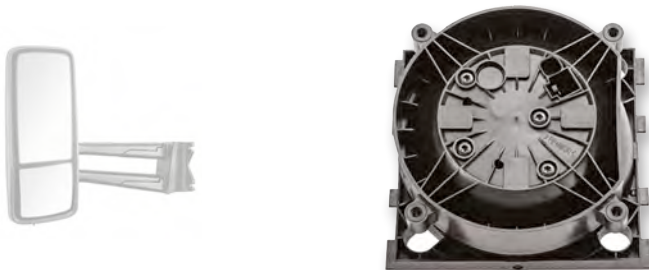
Model	Part #	O.E.M.	Glass Size	Side	Color	M/R	Heat	Light
360	V593605228 <sup>1</sup>	3571502C2	10 <sup>5</sup> / <sub>8</sub> "w x 6 <sup>1</sup> / <sub>4</sub> "h	Right	Chrome	Manual	-	-
360	V593601152 <sup>2</sup>	3571501C1	10 <sup>5</sup> / <sub>8</sub> "w x 6 <sup>1</sup> / <sub>4</sub> "h	Right	Black	Manual	-	-

### Convex Glass Kit

Model	Part #	O.E.M.	Glass Size	Side	Color	M/R	Heat
360	V613600001 <sup>3</sup>	2585911C1 2585911C2	10 <sup>5</sup> / <sub>8</sub> "w x 6 <sup>1</sup> / <sub>4</sub> "h	Both	Black	Manual	-

## KENWORTH

T680, T880 | **481 System**



Actuator

**Vehicle:**

T680, T880 (2012-Present)

**Pedestal Mount**

**Head Size**

9"w x 21<sup>3</sup>/<sub>8</sub>"h

**NOTES**

Bracket, head and glass not available. Contact OE to purchase.

### Flat Mirror Actuator

Model	Part #	O.E.M.	Side
480	V084803997	84803997	Both

# MIRRORS

## KOVATCH MOBILE EQUIPMENT (KME)

**407 System** | Eliminator, Dryside Tanker. Heavy Duty Rescue. Challenger, Legacy, Rearmount Pumper. TDA, Midmount, Rearmount Ladder/Platform. Predator, Severe Service, Panther and Legacy



Side Mount Bracket



Flat Glass Kit



Convex Glass Kit

### Vehicle:

Eliminator, Dryside Tanker. Heavy Duty Rescue. Challenger, Legacy, Rearmount Pumper. TDA, Midmount, Rearmount Ladder/Platform. Predator, Severe Service, Panther and Legacy (2003-Present)

- Fits 1- 1 1/8" tube

### Flat Head Size

7 5/16" w x 16 3/8" h x 4 5/8" d

### Convex Head Size

7 1/4" w x 7 1/4" h x 5 1/8" d

### NOTES

**M/R** Manual / remote

<sup>1</sup> Furnished less electrical harness. Contact Velvac for specific part numbers and availability

- For Airport RIV, Commercial Chassis, Wetside, Elliptical, Wildland Interface, Ridgerunner, Specialty, and Medium Duty Rescue, consult specific vehicle make/model section of this catalog.

### Side Mount Bracket

Model	Part #	Dimension "A"	Dimension "B"	Side	Color	Material
407	V584070300 <sup>1</sup>	28 3/16"	7 6/34"	Both	Stainless	Stainless

- Dimension A: Distance between upper and lower bracket holder mounting holes
- Dimension B: Distance between the outside edge of the mirror bracket and the mounting surface

### Flat Glass Housing Head adjustable. Order glass to make complete head

Model	Part #	Glass Size	Side	Color	M/R	Heat	Light
409	V514090029	6 3/4" w x 15 7/8" h	Right	Chrome	Remote	•	-
409	V514090028	6 3/4" w x 15 7/8" h	Left	Chrome	Remote	•	-

### Flat Glass Kit

Model	Part #	O.E.M.	Glass Size	Side	Color	M/R	Heat
383	V153832107	054627V007	6 3/4" w x 15 7/8" h	Both	Black	Both	•



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## KOVATCH MOBILE EQUIPMENT (KME)

**407 System**  
Continued

### Convex Glass Head Head adjustable

Model	Part #	O.E.M.	Glass Size	Side	Color	M/R	Heat	Light
409	V564090025	K564090025	6¾"w x 6¾"h	Both	Chrome	Manual	•	-

### Convex Glass Kit

Model	Part #	O.E.M.	Glass Size	Side	Color	M/R	Heat
388	V153882117	054627V004	6¾"w x 6¾"h	Both	Black	Manual	•

### Flat Mirror Actuators

Model	Part #	Side
409	V084090002	Right
409	V084090001	Left

### Accessories

- **Mirror Head Clamp**  
Model 387 | Part # V113870510B  
(OEM 005881V177)
- **Head Clamp & Screws Kit**  
Model 405 | Part # V624059999
- **Wire Harness Kit**  
Model 387 | Part # V613871998
- **2-Mirror Switch**  
Part # V083200233  
(OEM 005881V178)

# MIRRORS

## KOVATCH MOBILE EQUIPMENT (KME)

**407 System** | Eliminator, Dryside Tanker. Heavy Duty Rescue. Challenger, Legacy, Rearmount Pumper. TDA, Midmount, Rearmount Ladder/Platform. Predator, Severe Service, Panther and Legacy



Side Mount Bracket

Flat Glass Head

Convex Glass Head

### Vehicle:

Eliminator, Dryside Tanker. Heavy Duty Rescue. Challenger, Legacy, Rearmount Pumper. TDA, Midmount, Rearmount Ladder/Platform. Predator, Severe Service, Panther and Legacy (2003-Present)

- Fits 1- 1 1/8" tube

### Head Size

8 1/16"w x 15 1/16"h x 5 1/4"d

### NOTES

**M/R** Manual / remote

<sup>1</sup> Furnished less electrical harness. Contact Velvac for specific part numbers and availability

<sup>2</sup> Chrome backcover with chrome housing

- For Airport RIV, Commercial Chassis, Wetside, Elliptical, Wildland Interface, Ridgerunner, Specialty, and Medium Duty Rescue, consult specific vehicle make/model section of this catalog.

### Side Mount Bracket

Model	Part #	Dimension "A"	Dimension "B"	Side	Color	Material
407	V584070300 <sup>1</sup>	28 13/16"	7 63/64"	Both	Stainless	Stainless

- Dimension A: Distance between upper and lower bracket holder mounting holes
- Dimension B: Distance between the outside edge of the mirror bracket and the mounting surface

### Flat Glass Head *Glass adjustable*

Model	Part #	Glass Size	Side	Color	M/R	Heat	Light
427	V514270018 <sup>2</sup>	7 1/4"w x 14 1/4"h	Right	Chrome	Remote	•	•
427	V514270017 <sup>2</sup>	7 1/4"w x 14 1/4"h	Left	Chrome	Remote	•	•
427	V514270016 <sup>2</sup>	7 1/4"w x 14 1/4"h	Right	Chrome	Remote	•	-
427	V514270015 <sup>2</sup>	7 1/4"w x 14 1/4"h	Left	Chrome	Remote	•	-

### Flat Glass Kit

Model	Part #	O.E.M.	Glass Size	Side	Color	M/R	Heat
427	V154270011	005881V191 005881V231	7 1/4"w x 14 1/4"h	Both	Black	Both	•



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## KOVATCH MOBILE EQUIPMENT (KME)

**407 System**  
Continued

### Mirror Cover

Model	Part #	Side	Color	Light
427	V134271008	Both	Chrome	-
427	V134271009 <sup>3</sup>	Both	Chrome	•
427	V614271007 <sup>3,4</sup>	Both	Chrome	•

### Accessories

- **Marker Light Kit w/ Bezel**  
Model 427 | Part # V114272001
- **Head Clamp & Screws Kit**  
Model 400 | Part # V614000010
- **2-Mirror Switch**  
Part # V083200233  
(OEM 005881V178)

### Convex Glass Head *Glass adjustable*

Model	Part #	Glass Size	Side	Color	M/R	Heat	Light
428	V564281014 <sup>2</sup>	7¾"w x 5¾"h	Both	Chrome	Manual	•	-
428	V564281015 <sup>2,5</sup>	7¾"w x 5¾"h	Both	Chrome	Manual	•	-

### Convex Glass Kit

Model	Part #	O.E.M.	Glass Size	Side	Color	M/R	Heat
428	V154280002	-	7¾"w x 5¾"h	Both	Black	Manual	•
428	V154280003 <sup>5</sup>	005881V167	7¾"w x 5¾"h	Both	Black	Manual	•

### Convex Mirror Cover

Model	Part #	Side	Color	Light
428	V134281015	Both	Chrome	-

### Flat Mirror Actuator

Model	Part #	Side
427	V084270006	Both

### NOTES

- <sup>2</sup> Chrome backcover with chrome housing  
<sup>3</sup> Furnished with punched holes  
<sup>4</sup> Kit furnished with marker light  
<sup>5</sup> Furnished with turn signal

## PETERBILT

480 System | 567, 579



Actuator

### Vehicle:

567, 579 (2012-Present)

### Pedestal Mount Head Size

9<sup>3</sup>/<sub>8</sub>"w x 22<sup>5</sup>/<sub>8</sub>"h

### NOTES

Bracket, head and glass not available.  
Contact OE to purchase.

### Flat Mirror Actuator

Model	Part #	O.E.M.	Side
480	V084803997	84803997	Both



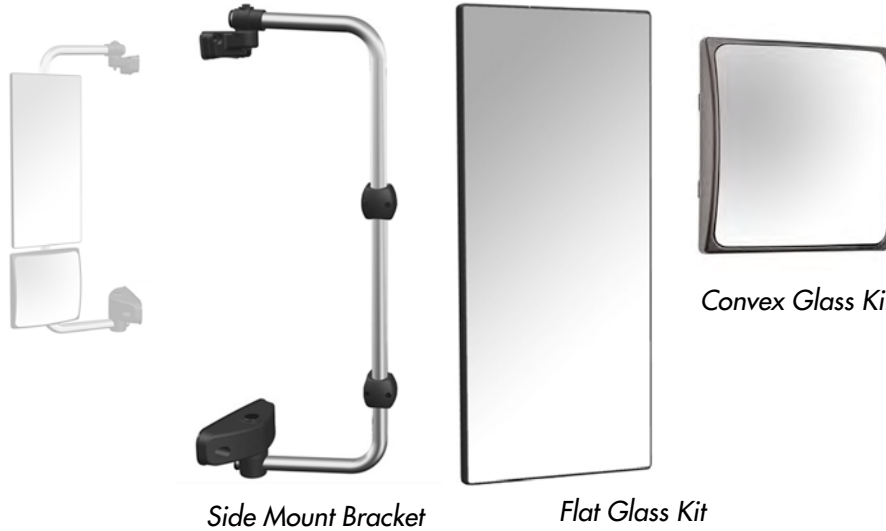
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## PIERCE MANUFACTURING

PUC Ariels, Pumpers, Rescues. Arrow XT™, Impel™, Quantum®, Saber®, Velocity®  
| **407 System**



### Vehicle:

PUC Ariels, Pumpers, Rescues.  
Arrow XT™, Impel™, Quantum®,  
Saber®, Velocity® (2003-Present)

- Fits 1- 1 1/8" tube

### Flat Head Size

7 5/16" w x 16 3/8" h x 4 5/8" d

### Convex Head Size

7 1/4" w x 7 1/4" h x 5 1/8" d

### NOTES

**M/R** Manual / remote

<sup>1</sup> Furnished less electrical harness. Contact Velvac for specific part numbers and availability

- For Commercial Pumpers, Tankers and Rescues, consult specific vehicle make/model section of this catalog

### Side Mount Bracket

Model	Part #	Dimension "A"	Dimension "B"	Side	Color	Material
407	V584070100 <sup>1</sup>	26 1/2"	9 <sup>27</sup> / <sub>32</sub> "	Both	Stainless	Stainless

- Dimension A: Distance between upper and lower bracket holder mounting holes
- Dimension B: Distance between the outside edge of the mirror bracket and the mounting surface

### Flat Glass Housing Head adjustable. Order glass to make complete head

Model	Part #	O.E.M.	Glass Size	Side	Color	M/R	Heat	Light
409	V514090029	1443302	6 3/4" w x 15 7/8" h	Right	Chrome	Remote	•	-
409	V514090028	1964877	6 3/4" w x 15 7/8" h	Left	Chrome	Remote	•	-

### Flat Glass Kit

Model	Part #	O.E.M.	Glass Size	Side	Color	M/R	Heat
383	V153832107	A2254882002	6 3/4" w x 15 7/8" h	Both	Black	Both	•

## PIERCE MANUFACTURING

### 407 System

Continued

#### Convex Glass Head Head adjustable

Model	Part #	Glass Size	Side	Color	M/R	Heat	Light
409	V564090025	6¾"w x 6¾"h	Both	Chrome	Manual	•	•

#### Convex Glass Kit

Model	Part #	O.E.M.	Glass Size	Side	Color	M/R	Heat
388	V153882117	2122881	6¾"w x 6¾"h	Both	Black	Manual	•

#### Flat Mirror Actuators

Model	Part #	Side
409	V084090002	Right
409	V084090001	Left

#### Accessories

- **Mirror Head Clamp**  
Model 387 | Part # V113870510B
- **Head Clamp & Screws Kit**  
Model 405 | Part # V624059999
- **Wire Harness Kit**  
Model 387 | Part # V613871998
- **2-Mirror Switch**  
Part # V084022051



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## PIERCE MANUFACTURING

PUC Ariels, Pumpers, Rescues. Arrow XT™, Impel™, Quantum®, Saber®, Velocity®  
| **407 System**



### Vehicle:

PUC Ariels, Pumpers, Rescues.  
Arrow XT™, Impel™, Quantum®,  
Saber®, Velocity® (2003-Present)

- Fits 1- 1 1/8" tube

### Head Size

8 1/6" w x 15 1/6" h x 5 1/4" d

### NOTES

**M/R** Manual / remote

<sup>1</sup> Furnished less electrical harness. Contact Velvac for specific part numbers and availability

<sup>2</sup> Chrome backcover with chrome housing

- For Commercial Pumpers, Tankers and Rescues, consult specific vehicle make/model section of this catalog

### Side Mount Bracket

Model	Part #	Dimension "A"	Dimension "B"	Side	Color	Material
407	V584070100 <sup>1</sup>	26 1/2"	9 27/32"	Both	Stainless	Stainless

- Dimension A: Distance between upper and lower bracket holder mounting holes
- Dimension B: Distance between the outside edge of the mirror bracket and the mounting surface

### Flat Glass Head *Glass adjustable*

Model	Part #	Glass Size	Side	Color	M/R	Heat	Light
427	V514270018 <sup>2</sup>	7 1/4" w x 14 1/4" h	Right	Chrome	Remote	•	•
427	V514270017 <sup>2</sup>	7 1/4" w x 14 1/4" h	Left	Chrome	Remote	•	•
427	V514270016 <sup>2</sup>	7 1/4" w x 14 1/4" h	Right	Chrome	Remote	•	-
427	V514270015 <sup>2</sup>	7 1/4" w x 14 1/4" h	Left	Chrome	Remote	•	-

### Flat Glass Kit

Model	Part #	Glass Size	Side	Color	M/R	Heat
427	V154270011	7 1/4" w x 14 1/4" h	Both	Black	Both	•

## PIERCE MANUFACTURING

### 407 System

Continued

#### Mirror Cover

Model	Part #	Side	Color	Light
427	V134271008	Both	Chrome	-
427	V134271009 <sup>3</sup>	Both	Chrome	•
427	V614271007 <sup>3,4</sup>	Both	Chrome	•

#### Convex Glass Head *Glass adjustable*

Model	Part #	Glass Size	Side	Color	M/R	Heat	Light
428	V564281014 <sup>2</sup>	7¾" w x 5¾" h	Both	Chrome	Manual	•	-

#### Convex Glass Kit

Model	Part #	Glass Size	Side	Color	M/R	Heat
428	V154280002	7¾" w x 5¾" h	Both	Black	Manual	•

#### Convex Mirror Cover

Model	Part #	Side	Color	Light
428	V134281015	Both	Chrome	-

#### Flat Mirror Actuator

Model	Part #	Side
427	V084270006	Both

#### Accessories

- **Marker Light Kit w/ Bezel**  
Model 427 | Part # V114272001
- **Head Clamp & Screws Kit**  
Model 400 | Part # V614000010
- **2-Mirror Switch**  
Part # V084022051  
(OEM 634860)

#### NOTES

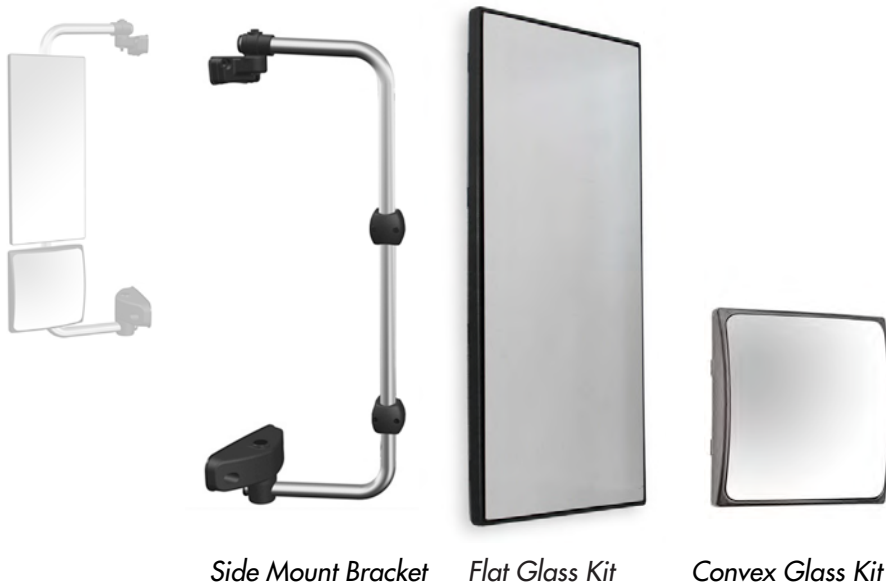
- <sup>2</sup> Chrome backcover with chrome housing
- <sup>3</sup> Furnished with punched holes
- <sup>4</sup> Kit furnished with marker light



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Marauder II, Attacker HD | **407 System**



### Vehicle:

Marauder II, Attacker HD  
(2004-Present)

- Fits 1-1/8" tube

### Flat Head Size

7<sup>5</sup>/<sub>16</sub>"w x 16<sup>3</sup>/<sub>8</sub>"h x 4<sup>5</sup>/<sub>8</sub>"d

### Convex Head Size

7<sup>1</sup>/<sub>4</sub>"w x 7<sup>1</sup>/<sub>4</sub>"h x 5<sup>1</sup>/<sub>8</sub>"d

### NOTES

<sup>1</sup> Furnished less electrical harness. Contact Velvac for specific part numbers and availability

**M/R** Manual / remote

Side Mount Bracket

Flat Glass Kit

Convex Glass Kit

- For Commercial Optimum Series, consult specific vehicle make/model section of this catalog.

### Side Mount Bracket

Model	Part #	O.E.M.	Dimension "A"	Dimension "B"	Side	Color	Material
407	V584070100 <sup>1</sup>	S584070100	26 <sup>1</sup> / <sub>2</sub> "	9 <sup>27</sup> / <sub>32</sub> "	Both	Stainless	Stainless
407	V584070310 <sup>1</sup>	P3207000	31 <sup>3</sup> / <sub>4</sub> "	7 <sup>57</sup> / <sub>64</sub> "	Both	Stainless	Stainless
407	V584070320 <sup>1</sup>	S584070320	32 <sup>2</sup> / <sub>32</sub> "	8 <sup>7</sup> / <sub>16</sub> "	Both	Stainless	Stainless

- Dimension A: Distance between upper and lower bracket holder mounting holes
- Dimension B: Distance between the outside edge of the mirror bracket and the mounting surface

### Flat Glass Housing Head adjustable. Order glass to make complete head

Model	Part #	O.E.M.	Glass Size	Side	Color	M/R	Heat	Light
409	V514090029	P3206800	6 <sup>3</sup> / <sub>4</sub> "w x 15 <sup>7</sup> / <sub>8</sub> "h	Right	Chrome	Remote	•	-
409	V514090028	P3206700	6 <sup>3</sup> / <sub>4</sub> "w x 15 <sup>7</sup> / <sub>8</sub> "h	Left	Chrome	Remote	•	-

### Flat Glass Kit

Model	Part #	O.E.M.	Glass Size	Side	Color	M/R	Heat
383	V153832107	P1680051 P2178761	6 <sup>3</sup> / <sub>4</sub> "w x 15 <sup>7</sup> / <sub>8</sub> "h	Both	Black	Both	•

## SEAGRAVE

### 407 System

Continued

#### Convex Glass Head Head adjustable

Model	Part #	O.E.M.	Glass Size	Side	Color	M/R	Heat	Light
409	V564090025	P3207100	6¾"w x 6¾"h	Both	Chrome	Manual	•	-

#### Convex Glass Kit

Model	Part #	O.E.M.	Glass Size	Side	Color	M/R	Heat
388	V153882117	P1680052 S153882117	6¾"w x 6¾"h	Both	Black	Manual	•

#### Flat Mirror Actuator

Model	Part #	O.E.M.	Side
409	V084090002	P2316501	Right
409	V084090001	-	Left

#### Accessories

- **Mirror Head Clamp**  
Model 387 | Part # V113870510B  
(OEM P3206600)
- **Head Clamp & Screws Kit**  
Model 405 | Part # V624059999
- **Wire Harness Kit**  
Model 387 | Part # V613871998
- **2-Mirror Switch**  
Part # V083200233  
(OEM P2005000)



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Marauder II, Attacker HD | **407 System**



Flat Glass Head



Convex Glass Head

### Vehicle:

Marauder II, Attacker HD  
(2004-Present)

- Fits 1-1/8" tube

### Head Size

8 1/16" w x 15 1/16" h x 5/4" d

### NOTES

**M/R** Manual / remote

<sup>1</sup> Furnished with wiring harness for flat remote, flat/convex heat, marker light and turn signal

<sup>2</sup> Furnished less electrical harness. Contact Velvac for specific part numbers and availability

<sup>3</sup> Chrome backcover with chrome housing

<sup>4</sup> For use with bracket assembly V584070502

<sup>5</sup> For use with bracket assembly V584070310

- For Commercial Optimum Series, consult specific vehicle make/model section of this catalog.

### Side Mount Bracket

Model	Part #	O.E.M.	Dimension "A"	Dimension "B"	Side	Color	Material
407	V584070500 <sup>1</sup>	-	3 1/4"	8 7/16"	Both	Stainless	Stainless
407	V584070310 <sup>2</sup>	P3207000	3 1/4"	7 5/16"	Both	Stainless	Stainless

- Dimension A: Distance between upper and lower bracket holder mounting holes
- Dimension B: Distance between the outside edge of the mirror bracket and the mounting surface

### Flat Glass Head Glass adjustable

Model	Part #	Glass Size	Side	Color	M/R	Heat	Light
427	V514270018 <sup>3, 4</sup>	7 1/4" w x 14 1/4" h	Right	Chrome	Remote	•	•
427	V514270017 <sup>3, 4</sup>	7 1/4" w x 14 1/4" h	Left	Chrome	Remote	•	•
427	V514270016 <sup>3, 5</sup>	7 1/4" w x 14 1/4" h	Right	Chrome	Remote	•	-
427	V514270015 <sup>3, 5</sup>	7 1/4" w x 14 1/4" h	Left	Chrome	Remote	•	-

### Flat Glass Kit

Model	Part #	Glass Size	Side	Color	M/R	Heat
427	V154270011	7 1/4" w x 14 1/4" h	Both	Black	Both	•

## SEAGRAVE

### 407 System

Continued

#### Mirror Cover

Model	Part #	Side	Color	Light
427	V134271009 <sup>6</sup>	Both	Chrome	•
427	V614271007 <sup>6,7</sup>	Both	Chrome	•
427	V134271008	Both	Chrome	-

#### Convex Glass Head *Glass adjustable*

Model	Part #	Glass Size	Side	Color	M/R	Heat	Light
428	V564281015 <sup>8,9</sup>	7 <sup>3</sup> / <sub>4</sub> "w x 5 <sup>3</sup> / <sub>4</sub> "h	Both	Chrome	Manual	•	-
428	V564281014 <sup>3,5</sup>	7 <sup>3</sup> / <sub>4</sub> "w x 5 <sup>3</sup> / <sub>4</sub> "h	Both	Chrome	Manual	•	-

#### Convex Glass Kit

Model	Part #	Glass Size	Side	Color	M/R	Heat
428	V154280003 <sup>8</sup>	7 <sup>3</sup> / <sub>4</sub> "w x 5 <sup>3</sup> / <sub>4</sub> "h	Both	Black	Manual	•
428	V154280002	7 <sup>3</sup> / <sub>4</sub> "w x 5 <sup>3</sup> / <sub>4</sub> "h	Both	Black	Manual	•

#### Convex Mirror Cover

Model	Part #	Side	Color	Light
428	V134281015	Both	Chrome	-

#### Flat Mirror Actuator

Model	Part #	Side
427	V084270006	Both

#### Accessories

- **Marker Light Kit w/ Bezel**  
Model 427 | Part # V114272001
- **Head Clamp & Screws Kit**  
Model 400 | Part # V614000010
- **2-Mirror Switch**  
Part # V083200233  
(OEM 2005000)

#### NOTES

- <sup>3</sup> Chrome backcover with chrome housing
- <sup>5</sup> For use with bracket assembly V584070310
- <sup>6</sup> Furnished with punched holes
- <sup>7</sup> Kit furnished with marker light
- <sup>8</sup> Furnished with turn signal
- <sup>9</sup> For use with bracket assembly V584070502



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## SPARTAN CHASSIS

Gladiator<sup>®</sup>, Metro Star<sup>®</sup>, Metro Star<sup>®</sup> -X, Metro Star<sup>®</sup> - RT | **407 System**



### Vehicle:

Gladiator<sup>®</sup>, Metro Star<sup>®</sup>, Metro Star<sup>®</sup> -X, Metro Star<sup>®</sup> - RT (2004-Present)

- Fits 1- 1 1/8" tube

### Head Size

8 1/16" w x 15 1/16" h x 5 1/4" d

### NOTES

**M/R** Manual / remote

<sup>1</sup> Furnished with wiring harness for flat remote, flat/convex heat, marker light and turn signal

<sup>2</sup> Furnished less electrical harness. Contact Velvac for specific part numbers and availability

<sup>3</sup> Chrome backcover with chrome housing

<sup>4</sup> For use with bracket assembly V584070502

<sup>5</sup> For use with bracket assembly V584070310

<sup>6</sup> For use with bracket assembly V584070312

### Side Mount Bracket

Model	Part #	O.E.M.	Dimension "A"	Dimension "B"	Side	Color	Material
407	V584070500 <sup>1</sup>	-	31 3/4"	8 7/16"	Both	Stainless	Stainless
407	V584070310 <sup>2</sup>	P3207000	31 3/4"	7 57/64"	Both	Stainless	Stainless
407	V584070312 <sup>2</sup>	-	31 3/4"	7 57/64"	Both	Black	Steel

- Dimension A: Distance between upper and lower bracket holder mounting holes
- Dimension B: Distance between the outside edge of the mirror bracket and the mounting surface

### Flat Glass Head Glass adjustable

Model	Part #	Glass Size	Side	Color	M/R	Heat	Light
427	V514270018 <sup>3,4</sup>	7 1/4" w x 14 1/4" h	Right	Chrome	Remote	•	•
427	V514270017 <sup>3,4</sup>	7 1/4" w x 14 1/4" h	Left	Chrome	Remote	•	•
427	V514270016 <sup>3,5</sup>	7 1/4" w x 14 1/4" h	Right	Chrome	Remote	•	-
427	V514270015 <sup>3,5</sup>	7 1/4" w x 14 1/4" h	Left	Chrome	Remote	•	-
427	V514270122 <sup>6</sup>	7 1/4" w x 14 1/4" h	Right	Black	Remote	•	-
427	V514270121 <sup>6</sup>	7 1/4" w x 14 1/4" h	Left	Black	Remote	•	-

## SPARTAN CHASSIS

### 407 System

Continued

#### Flat Glass Kit

Model	Part #	Glass Size	Side	Color	M/R	Heat
427	V154270011	7¼"w x 14¼"h	Both	Black	Both	•
427	V614270004 <sup>7</sup>	7¼"w x 14¼"h	Right	Black	Both	•
427	V614270005 <sup>7</sup>	7¼"w x 14¼"h	Left	Black	Both	•

#### Mirror Cover

Model	Part #	Side	Color	Light
427	V134271009 <sup>10</sup>	Both	Chrome	•
427	V614271007 <sup>8, 10</sup>	Both	Chrome	•
427	V134271008	Both	Chrome	-
427	V134271000	Both	Black	-

#### Accessories

- **Marker Light Kit w/ Bezel**  
Model 427 | Part # V114272001
- **Head Clamp & Screws Kit**  
Model 400 | Part # V614000010
- **2-Mirror Switch**  
Part # V083200233  
(OEM 0497RR8001)

#### Convex Glass Head *Glass adjustable*

Model	Part #	Glass Size	Side	Color	M/R	Heat	Light
428	V564281015 <sup>4, 9</sup>	7¾"w x 5¾"h	Both	Chrome	Manual	•	-
428	V564281014 <sup>3, 5</sup>	7¾"w x 5¾"h	Both	Chrome	Manual	•	-
428	V564281002 <sup>6</sup>	7¾"w x 5¾"h	Both	Black	Manual	•	-

#### Convex Glass Kit

Model	Part #	Glass Size	Side	Color	M/R	Heat
428	V154280003 <sup>9</sup>	7¾"w x 5¾"h	Both	Black	Manual	•
428	V154280002	7¾"w x 5¾"h	Both	Black	Manual	•

#### Convex Mirror Cover

Model	Part #	Side	Color	Light
428	V134281015	Both	Chrome	-
428	V134281011	Both	Black	-

#### NOTES

- <sup>3</sup> Chrome backcover with chrome housing
- <sup>4</sup> For use with bracket assembly V584070502
- <sup>5</sup> For use with bracket assembly V584070310
- <sup>6</sup> For use with bracket assembly V584070312
- <sup>7</sup> Flat glass kit with housing
- <sup>8</sup> Kit furnished with marker light
- <sup>9</sup> Furnished with turn signal
- <sup>10</sup> Furnished with punched holes

#### Flat Mirror Actuator

Model	Part #	Side
427	V084270006	Both



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### Sprinter Vans | Straight Van Chassis Applications



#### Vehicle:

Sprinter Vans

- Kits include mirror head, bracket and stainless steel mounting hardware
- Assemblies include an 8½" K-10 Eyeball convex mirror

Kit #	Color
716902	Stainless bracket w/ black 10" ABS

### Sprinter Vans | Van and Cab Chassis Mirrors



#### Vehicle:

Sprinter Vans

- Powder coated loop and cast mounting ends fit directly into older OE mounting base (not included)
- Includes 6½" x 10" upper flat glass head and 6½" x 6" lower convex
- For use up to 86" wide body applications

Part #	Description	Color
715704	Complete pair	Black

# MIRRORS

## SUTPHEN

**407 System** | Aerial Platforms, Aerial Ladders, Pumpers, Specialty, Wildland, Industrial



Side Mount Bracket

Flat Glass Head

### Vehicle:

Aerial Platforms - SP70, SP95, SPH100, Remount. Aerial Ladders - SA75, SA100. Pumpers - Guardian, Monarch, Shield. Specialty - Heavy Rescue. Wildland - Type I. Industrial - SA|110, SP|112, Pumper (2004-Present)

- Fits 1- 1 1/8" tube

### Head Size

8 1/6" w x 15 1/6" h x 5 1/4" d

### NOTES

**M/R** Manual / remote

<sup>1</sup> Furnished less electrical harness. Contact Velvac for specific part numbers and availability

<sup>2</sup> Chrome backcover with chrome housing

- For Commercial Pumpers and Elliptical or Wetside Tankers, consult the specific vehicle make/model section of this catalog

### Side Mount Bracket w/ Modified Lower Holder

Model	Part #	Dimension "A"	Dimension "B"	Side	Color	Material
407	V584071300 <sup>1</sup>	28 1/6"	7 63/64"	Both	Stainless	Stainless

- Dimension A: Distance between upper and lower bracket holder mounting holes
- Dimension B: Distance between the outside edge of the mirror bracket and the mounting surface

### Flat Glass Head *Glass adjustable*

Model	Part #	O.E.M.	Glass Size	Side	Color	M/R	Heat	Light
427	V514270018 <sup>2</sup>	-	7 1/4" w x 14 1/4" h	Right	Chrome	Remote	•	•
427	V514270017 <sup>2</sup>	-	7 1/4" w x 14 1/4" h	Left	Chrome	Remote	•	•
427	V514270016 <sup>2</sup>	HC21Q23QX	7 1/4" w x 14 1/4" h	Right	Chrome	Remote	•	-
427	V514270015 <sup>2</sup>	-	7 1/4" w x 14 1/4" h	Left	Chrome	Remote	•	-
427	V514270019 <sup>2</sup>	-	7 1/4" w x 14 1/4" h	Both	Chrome	Manual	-	-



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#### Flat Glass Kit

Model	Part #	Glass Size	Side	Color	M/R	Heat
427	V154270011	7¼"w x 14¼"h	Both	Black	Both	•
427	V154270010	7¼"w x 14¼"h	Both	Black	Both	-

#### Mirror Cover

Model	Part #	Side	Color	Light
427	V134271009 <sup>3</sup>	Both	Chrome	•
427	V134271008	Both	Chrome	-
427	V614271007 <sup>3,4</sup>	Both	Chrome	•

#### Accessories

- **Marker Light Kit w/ Bezel**  
Model 427 | Part # V114272001
- **Head Clamp & Screws Kit**  
Model 400 | Part # V614000010

#### Convex Glass Head *Glass adjustable*

Model	Part #	Glass Size	Side	Color	M/R	Heat	Light
428	V564281013 <sup>2</sup>	7¾"w x 5¾"h	Both	Chrome	Manual	-	-
428	V564281015 <sup>2,5</sup>	7¾"w x 5¾"h	Both	Chrome	Manual	•	-

#### Convex Glass Kit

Model	Part #	Glass Size	Side	Color	M/R	Heat
428	V154280001	7¾"w x 5¾"h	Both	Black	Manual	-
428	V614280008 <sup>6</sup>	7¾"w x 5¾"h	Both	Black	Manual	-
428	V154280003 <sup>5</sup>	7¾"w x 5¾"h	Both	Black	Manual	•

#### Convex Mirror Cover

Model	Part #	Side	Color	Light
428	V134281015	Both	Chrome	-

#### NOTES

- M/R** Manual / remote
- <sup>2</sup> Chrome backcover with chrome housing
- <sup>3</sup> Furnished with punched holes
- <sup>4</sup> Kit furnished with marker light
- <sup>5</sup> Furnished with turn signal
- <sup>6</sup> Includes housing

#### Flat Mirror Actuator

Model	Part #	Side
427	V084270006	Both

## USPS

### United States Post Office Mirrors



- All USPS mirrors are manufactured to USPS OE requirements and are USPS White



### Mirror and Bracket Kits

Part #	Body Type	Application	Dimension
712896	LLV	Right side	6½"w x 10"h
712897	LLV	Left side	6½"w x 10"h
712898	LLV	Front cross view	-
712900	LLV	Rear cross view	-
714782	CRV	Right side	6½"w x 10"h
714783	CRV	Left side	6½"w x 10"h
714784	CRV	Front cross view	-
714785	CRV	Rear cross view	-
714146	Ford Aerostar	Rear cross view	-
714147	Ford Windstar	Rear cross view	-
715786	Dodge Caravan	Rear cross view	-

### Replacement Main Head

Part #	Body Type	Application	Dimension
704122	LLV	Both side mirrors	6½"w x 10"h
704122	CRV	Both side mirrors	6½"w x 10"h

### Replacement Convex Head

Part #	Body Type	Application	Dimension
704120	LLV	Both side mirrors	6½"w x 6"h
723103	LLV	Front cross view	8" Diameter
709226	LLV	Rear cross view	10" Diameter
704120	CRV	Both side mirrors	6½"w x 6"h
723103	CRV	Front cross view	8" Diameter
709226	CRV	Rear cross view	10" Diameter
708463	Ford Aerostar	Rear cross view	8½" Diameter
708463	Ford Windstar	Rear cross view	8½" Diameter
708463	Dodge Caravan	Rear cross view	8½" Diameter



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**VOLVO**

Various | **360 System**



**Vehicle:**

Various (2003-2005)

**Bracket Mount  
Convex Head Size**

11<sup>3</sup>/<sub>16</sub>"w x 6<sup>7</sup>/<sub>8</sub>"h x 2<sup>7</sup>/<sub>16</sub>"d

**Bracket Hole Location  
Width Between Holes:**

3<sup>15</sup>/<sub>16</sub>"

**Hole Size:**

1<sup>1</sup>/<sub>64</sub>"

**Look Down Mirror** *Furnished with black flip-out arm*

Model	Part #	O.E.M.	Glass Size	Side	Color	M/R	Heat	Light
360	V593603121	3980815	10 <sup>9</sup> / <sub>8</sub> "x 6 <sup>6</sup> / <sub>8</sub> "	Right	Black	Manual	-	-

**VOLVO**

VNL, VNM | **372 System**



*Actuator*

**Vehicle:**

VNL, VNM (1998-2005)

- Fits 20 mm tube

**Head Size**

9<sup>7</sup>/<sub>8</sub>"w x 26<sup>3</sup>/<sub>16</sub>"h x 4<sup>5</sup>/<sub>8</sub>"h

**Accessories**

- **Back Cover Plug Kit**  
Model 372 | Part # V613724110  
(OEM 3092008)
- **RAMI CB Insulator Kit**  
Model 387 | Part # V613871900

**Flat or Convex Mirror Actuator**

Model	Part #	O.E.M.	Side
372	V613720112	613720112	Both

**NOTES**

Bracket, head and glass not available.  
Contact OE to purchase.

# MIRRORS

## VOLVO

### 412 System | Various



#### Vehicle:

Various (2005-Present)

#### Bracket Mount

#### Convex Head Size

11<sup>1</sup>/<sub>16</sub>"w x 6<sup>3</sup>/<sub>4</sub>"h x 2<sup>5</sup>/<sub>8</sub>"d

#### Bracket Hole Location

#### Width Between Holes:

3<sup>15</sup>/<sub>16</sub>" or 2<sup>3</sup>/<sub>4</sub>"

#### Hole Size:

1<sup>1</sup>/<sub>64</sub>"

**Look Down Mirror** *Furnished with fold-out arm*

Model	Part #	O.E.M.	Glass Size	Side	Color	M/R	Heat	Light
412	V594121171	20701698	10 <sup>3</sup> / <sub>4</sub> " x 6 <sup>1</sup> / <sub>4</sub> "	Right	Black	Manual	-	-

## VOLVO

### 472 System | VNM630, VNL 430, VNL 630, VNL 670, VNL 730, VNL 780, VNX 300, VNM200, VNM430



Actuator

#### Vehicle:

VNM200, VNM430, VNM630, VNL 430, VNL 630, VNL 670, VNL 730, VNL 780, VNX 300 (2008-September 2011)

- Fits 1<sup>1</sup>/<sub>4</sub>" tube

#### Head Size

9<sup>7</sup>/<sub>8</sub>"w x 25<sup>3</sup>/<sub>8</sub>"h x 6<sup>5</sup>/<sub>8</sub>"h

#### Accessories

#### • Standard CB Kit

Model 472 | Part # V614720004 (OEM 85108734)

#### • Premium CB Kit

Model 472 | Part # V614720005 (OEM 85108735)

#### • RAMI CB Insulator Kit

Model 387 | Part # V613871900

#### NOTES

Bracket, head and glass not available. Contact OE to purchase.

### Flat Mirror Actuator

Model	Part #	O.E.M.	Side
472	V614720001	85108732	Both



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### 473 System |

VNM200, VNM430, VNM630, VNL 430, VNL 630, VNL 670, VNL 730, VNL 780, VNX 300



Actuator

#### Vehicle:

VNM200, VNM430, VNM630, VNL 430, VNL 630, VNL 670, VNL 730, VNL 780, VNX 300 (September 2011-Present)

- Fits 1 1/4" tube

#### Head Size

9 7/8" w x 25 3/8" h x 6 5/8" h

#### Accessories

- **Standard CB Kit**  
Model 472 | Part # V614720004 (OEM 85108734)
- **Premium CB Kit**  
Model 472 | Part # V614720005 (OEM 85108735)
- **RAMI CB Insulator Kit**  
Model 387 | Part # V613871900

#### NOTES

Bracket, head and glass not available. Contact OE to purchase.

#### Flat Mirror Actuator

Model	Part #	O.E.M.	Side
473	V614730023	85133991	Both

## WESTERN STAR

### 4900EX, 4900SB | 401 System



Actuator

#### Vehicle:

4900EX, 4900SB (2002-Present)

- Fits 1 1/8" tube

#### Head Size

9 1/16" w x 23 5/8" h x 5 3/8" h

#### Accessories

- **Marker Light Assembly - Amber**  
Model 401 | Part # V084010001 (OEM MEK084010001)
- **Marker Light Bezel**  
Model 414 | Part # V084142400
- **RAMI CB Insulator Kit**  
Model 387 | Part # V613871900 (OEM MEK613871900)

#### NOTES

Bracket, head and glass not available. Contact OE to purchase.

#### Flat Mirror Actuators

Model	Part #	Side
384	V083841400	Right
384	V083841300	Left

# MIRRORS

## 2020 MIRROR REPLACEMENT PARTS

### 2020 and 2020XG Mirror Replacement Parts



2020  
Standard  
head



2020  
Deluxe  
head



2020XG  
Mirror

Mirror Heads					GM Topkick - Kodiak		Ford & GM Van	
	2020 Deluxe Head		2020 Standard Head		2020XG Mirror			
	Right Side	Left Side	Right Side	Left Side	Right Side	Left Side	Right Side	Left Side
White manual	-	-	714576	714576	-	-	715988	715987
White H/R flat, manual convex	714590	714589	714578	714578	-	-	715992	715991
White H/R w/ lower marker lamp	-	-	-	-	-	-	716506	716507
Black manual	714580	714579	714575	714575	715986	715985	715986	715985
Black H/R flat, manual convex	714582	714581	714577	714577	716012	716011	715990	715989
Black H/R flat, remote convex	-	-	-	-	-	-	719274	719275
Black H/R flat, remote convex, signal arrow	-	-	-	-	-	-	719276	719277
Black H/R w/ lower marker lamp	-	-	-	-	-	-	716504	716505
Black H/R w/ signal arrow	716974	716973	-	-	-	-	716498	716499
Chrome H/R flat	714608	714607	-	-	-	-	715988	715997
Chrome H/R w/ lower marker lamp	-	-	-	-	-	-	716508	716509
Chrome H/R w/ signal arrow	716434	716433	-	-	-	-	716502	716503
Black 2015 replacement head <sup>3</sup>	-	-	714256	714256	-	-	-	-
White 2015 replacement head <sup>3</sup>	-	-	714258	714258	-	-	-	-
<b>Glass Kits</b>								
Manual flat glass <sup>1</sup>	-	-	709407	709407	-	-	-	-
Htd flat, manual and htd glass	709448	709448	709748	709748	716104	716103	716104	716103
Heated flat with signal arrow	709674	709673	-	-	709994	709995	709994	709995
Htd convex, manual and htd glass	709449	709449	-	-	709932	709931	716106	716105
Convex repair kit <sup>2</sup>	709589	709589	-	-	-	-	-	-
Wedge stick on convex	-	-	723068	723068	-	-	-	-
Flat glass retaining clip	-	-	-	-	709422	709422	709422	709422
Convex glass retaining clip	-	-	-	-	709855	709855	709855	709855

**NOTES**

**H/R** Heated remote

<sup>1</sup> Includes bezel and wedge convex

<sup>2</sup> Includes glass, inner housing, clip and actuator

<sup>3</sup> Model 2015 replacement head only; same head used for either side



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## 2020 MIRROR REPLACEMENT PARTS

### 2020XG System for GM Cut w/ 8D8 Option Replacement Mirror Heads

**Vehicle:**

GM Cutaway Van Mirrors

Model	Left Side #	Right Side #	Color	Head	Flat Glass	Convex Glass	Options
2020XG	716011	716012	Black	Deluxe	Heat / Remote	Heat / Manual	-
2020XG	716521	716522	Black	Deluxe	Heat / Remote	Heat / Manual	Light
2020XG	716515	716516	Black	Deluxe	Heat / Remote	Heat / Manual	Signal
2020XG	716055	716056	Chrome	Deluxe	Heat / Remote	Heat / Manual	-
2020XG	716525	716526	Chrome	Deluxe	Heat / Remote	Heat / Manual	Light
2020XG	716519	716520	Chrome	Deluxe	Heat / Remote	Heat / Manual	Signal

### 2020 and 2020XG Mirror Replacement Accessories

**2020 Accessories**

- **Switch Kit Ford E Van**  
Model 2020 | Part # 747524
- **Switch Kit GM G Van and C 3500**  
Model 2020 | Part # 747632
- **Switch Kit Ford F Superduty 650-750**  
Model 2020 | Part # 747633
- **12' HR Wire Harness Pass Door to Driver Door**  
Model 2020 | Part # 748304
- **Marker Light Below Elbow**  
Model 2020 | Part # 747551
- **Cover Plate Kit for GMC Topkick**  
Model 2020 | Part # 709785  
(includes plate, gasket and hardware)

**Model 2020XG & 2020SS Accessories**

- **Switch Kit Ford E Van**  
Model 2020XG | Part # 747588
- **Switch Kit GM G Van and C 3500**  
Model 2020XG | Part # 747856
- **Switch Kit Ford F Superduty 650-750**  
Model 2020XG | Part # 747901
- **12' HR Wire Harness Pass Door to Driver Door**  
Model 2020XG | Part # 747863
- **Marker Light**  
Model 2020XG | Part # 709993

**2020XG & 2020SS Accessories**

- **Black 96" Arm Cover Kit\***  
Model 2020XG | Part # 716107
- **Black 102" Arm Cover Kit\***  
Model 2020XG | Part # 716113
- **Black 96" Arm Cover Kit\***  
Model 2020XG | Part # 716109
- **Black 102" Arm Cover Kit\***  
Model 2020XG | Part # 716115

\*Kit is for a pair; includes hardware



Arm covers



Light

Harness

Switch kit

**NOTE: Part numbers listed in RED are NEW!**

# MIRRORS

## BRACKETS, CLAMPS AND ACCESSORIES



### Clamp and Tubing Arm Kits for 6", 8" and 8½" Mirror Heads

- Ideal for adding an auxiliary spot mirror to existing loop or brace
- For ¾" O.D. tubing
- Plastic coated clamp for secure grip and damage resistance
- Overall length 6"

Part #	Description
723057	Stainless steel
748269	UPS brown powder coated galvanized steel



### Clamp and Tubing Arm Kit for 5" and 6" Plastic Mirror Heads

- Stainless steel formed tube arm
- Zinc plated steel clamp
- Ideal for adding an auxiliary spot mirror to existing loop or brace
- For ⅝" and ¾" O.D. tubing
- Overall length 5⅞"

Part #	Description
723049	Stainless steel tubing



### 6" Pivot Bolt Mounting Bracket

- Ideal for adding an auxiliary spot mirror below a west coast mirror head
- Stainless steel construction
- Overall length 4⅞"

Part #	Description
723055	For ⅝" and ¾" pivot bolts

### "L" Style Mounting Bracket



- Sturdy ⅛", 11 gauge construction
- Pivot hole accepts ⅝" and ¾" bolts
- Slotted hole provides additional mirror head adjustment
- Ideal for mounting Velvac DuraBall® convex and all other convex mirrors

Part #	Description
723100	Stainless steel

Replaces Velvac Part No. 723080

### Bracket Mount Mirror

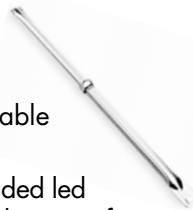


- Attaches easily to west coast mirror bracket on any truck
- All stainless steel construction

Part #	Description
712648	Two arm bracket

Bracket and hardware ONLY - mirror head sold separately

### Adjustable Tubing Arms



- Universal adjustable support
- 10½" long threaded led with extension adjustment from 19" to 25"
- Threaded leg can be cut to reduce minimum overall length
- Available in stainless steel and powder-coated galvanized steel finishes

Part #	Description
747070	Stainless steel
747072	Black

### Fender Mount Extension Bracket



- Adjustable from 13½" to 17½"
- Bell mount base provides extra support
- Stainless steel construction
- Mounting hardware included

Part #	Description
723047	Fender mntd extension bracket

Bracket and hardware ONLY - mirror head sold separately

### Sleeve and Nut Kit



- For conventional and step van brace and adjustable bracket assemblies
- Brass sleeve and chrome nut

Part #	Description
748215	Sleeve and nut kit

### The Stabilizer Heavy-Duty Convex L-Bracket



- Unique two piece L-bracket developed in conjunction with major truck OEs
- Rigid stabilizer bracket improves image stability in convex spot mirror by reducing vibration
- Individually packaged

Part #	Description
723115	Stabilizer L-bracket



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## BRACKETS, CLAMPS AND ACCESSORIES

### Nylon Clamp Kit for 3/4" O.D. Tubing



- Non-corrosive black nylon clamp
- Recessed fasteners provide a custom look
- Kit includes clamp and hardware

Part #	Description
748416	Clamp kit - Includes clamp and hardware for 3/4" O.D. tubing

### Clamp Kit for 1" O.D. Tubing



- Used to mount side and stud mount mirror heads to 1" O.D. tubing
- Plastic coating for secure grip and damage resistance
- Kit includes stainless steel clamp and mounting bolt

Part #	Description
704070	Clamp kit for 1" O.D. tubing

### Standard Mounting Cabfeet Kits

- Used on non-preset style loops
- Heavy-duty 90° bracket permits a variety of mounting applications
- Cabfeet mounting holes are 2" on center
- Available in stainless steel and powder coated galvanized steel finishes
- Kits include cabfeet and hardware to mount one pair of mirrors

Part #	Description
757015	Stainless steel
757016	White

### Tubing Brace Clamp Kit for 3/4" O.D. Tubing



- Used to support tubing arms on loop assemblies; not used for installing mirror heads
- Kit includes stainless steel clamp and mounting hardware

Part #	Description
748029	Tubing brace clamp kit for 3/4" O.D. tubing

### Clamp Kit for 3/4" O.D. Tubing



- Used to mount side and stud mount mirror heads to 3/4" O.D. tubing
- Plastic coating for secure grip and mar resistance
- Kit includes stainless steel clamp and mounting bolt

Part #	Description
704068	Clamp kit for 3/4" O.D. tubing

### Clamp Kit for 1" O.D. Tubing



- Used to add a convex mirror to a 1" O.D. tube
- All stainless steel

Part #	Description
719263	Clamp kit for 1" O.D. tubing



### Flat Clamp Kit for 3/4" O.D. Tubing



- Used to mount West Coast mirror heads to 3/4" O.D. tubing - mounts on horizontal leg of loop
- Plastic coating for secure grip and damage resistance
- Kit includes stainless steel clamp and mounting hardware

Part #	Description
704066	Flat clamp kit for 3/4" O.D. tubing

### Clamp Kit for 5/8" O.D. Tubing



- Used to mount side and center mount mirror heads to 5/8" O.D. tubing
- Kit includes two-piece aluminum clamp and stainless steel mounting hardware

Part #	Description
704069	Clamp kit for 5/8" O.D. tubing

### Twist Clamp Kit for 3/4" O.D. Tubing



- Used to mount West Coast mirror heads to 3/4" O.D. tubing - mounts on vertical leg of loop
- Plastic coating for secure grip and damage resistance
- Kit includes stainless steel clamp and mounting hardware

Part #	Description
704065	Twist clamp kit for 3/4" O.D. tubing

**NOTE: Part numbers listed in RED are NEW!**

# MIRRORS

## BRACKETS, CLAMPS AND ACCESSORIES



### Non-Preset Pivot Kit

- Replacement kit for mirrors with Velvac non-preset pivot end and Velvac mirrors with standard pivot
- 5/16" - 18 x 1" stainless steel bolt
- Kit contains parts for one complete non-preset pivot end

Part #	Description
748012	Non-preset pivot kit



### Rubber Preset Pivot Kit

- Replacement kit for mirrors with Velvac rubber preset pivots and Velvac mirrors with rubber washer style preset
- 5/16" - 18 x 1 1/2" stainless steel bolt
- Kit contains parts for one complete preset pivot end

Part #	Description
748009	Rubber preset pivot kit

### Switch Kit for Heated Mirrors



- Dash mounted kit controls one to two heated mirror heads

Part #	Description
747053	Switch kit for heated mirror

### Clamp, Brace & Bracket Kit

- Ideal for adding auxiliary spot mirrors to existing loop or brace



### Spring Preset Pivot Kit

- Replacement kit for mirrors with standard Velvac spring preset systems and UPS walk-in vans with Velvac mirrors
- Use to upgrade mirrors with rubber washer preset to a spring preset for improved pivot action
- Stainless steel rivet plate extends life of loop and improves pivot action on mirrors with worn preset rivets
- 5/16" - 18 x 2" stainless steel bolt
- Kit contains parts for one complete spring preset pivot end

Part #	Description
712979	Spring preset pivot kit



### Preset Rivet Plate

- Designed for use on all Velvac preset loops except those with tension control stop preset as found in kit Part No. 748371
- Two stainless steel rivet plates extend life of loop and improve pivot action on mirrors with worn preset rivets
- Mounts easily between existing mirror loop and preset lock plate

Part #	Description
748377	Preset rivet plate kit



Part #	Description
723091	Clamp, tubing arm & L bracket



### Heavy-Duty Preset and Pivot Upgrade Kit

- Designed for use on all Velvac preset loops except those with tension control stop preset as found in kit Part No. 748371
- Improves pivot holding force on mirrors with large loops or large / heavy mirror head combinations
- Unique spring / washer combination retains pivot system torque to keep mirror in set viewing position until moved and provides superior detent action for foldaway applications
- Life cycle tested to over 50,000 pivot cycles
- Preset rivet plate fits over existing preset rivets to extend life of loop and improve cycle performance
- Easy retrofit - can be completed without taking mirror assembly off the vehicle
- 5/16" - 18 x 1 3/4" stainless steel pivot bolt and 5/16" - 18 x 2" stainless steel preset bolt
- Kit contains all upper and lower pivot hardware for one mirror assembly

Part #	Description
748355	Heavy-duty preset and pivot upgrade kit

\*Order one Part No. 748355 per side

#### Helpful hint:

Kit can be used to upgrade mirror loops with standard rubber or spring preset systems (similar to Part No. 748009 or 712979 detailed on this page)

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**OUR PARTS PUT YOU IN THE PASSING LANE**

# VISION SYSTEMS

## The future is here.

Velvac has developed some of the most sophisticated vision systems in the industry. With the addition of both Road-iQ and 5th Wheel Dual Camera system to our line-up, you'll find that we're at the forefront in ensuring safety for drivers.

- **AeroCam**
- **Road-iQ**
- **5th Wheel Dual Camera**



Includes:



# VISION SYSTEMS

## CAMERA SYSTEMS

- Velvac offers a variety of camera systems and kits to increase safety and convenience
- Below camera placement can also be for straight trucks, RVs, buses and speciality vehicles

### Helpful hint:

Be mindful of the connection type. The connectors are one of two types: A and B, shown to the right. All pieces must be compatible or will require the use of an adaptor



4-pin  
'A' Connection



5-pin  
'B' Connection



Road-iQ  
System  
Page V14



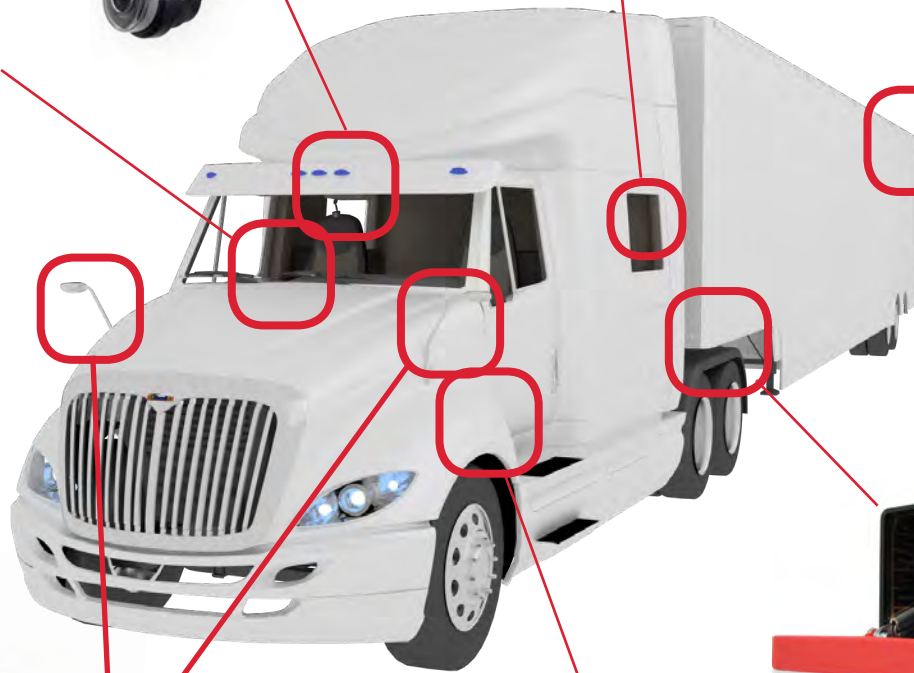
Front View  
Camera  
Page V5



Interior  
Camera  
Page V5



Back-Up  
Camera  
Page V3



AeroCam  
Page V12

Side View  
Camera  
Page V5



5th Wheel  
Dual Camera  
Page V11



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## CAMERAS

### Rear View Cameras



717973



710615

### Flush Mount Rear View Camera

Part #	FOV	Connector	IP Rating	Power
717973	120° H, 90° V	B	IP69K	12 VDC
710615	120° H, 90° V	A	IP69K	12 VDC

- Velvac offers a variety of rear view cameras including the exclusive flush mount back-up camera and adjustable back-up style



710522



710521



710523



710326

### Adjustable Rear View Camera

Part #	Housing	FOV	Connector	IP Rating	Power
710522	White	123° H, 95° V	A	IP69K	12 VDC
710523	Black	112° H, 80° V	A	IP69K	12 VDC
710521	Black	120° H, 90° V	A	IP69K	12 VDC
710326	Black	80° H, 60° V	B	IP69K	12 VDC

- Integrated flush mount provides clean appearance with no exposed wires or hardware
- Camera angle is preset to provide the optimum visibility with no needed adjustments
- IR-LED
- CMOS technology reduces blooming
- Includes durable backing plate, gasket and mounting hardware

#### 710522, 710521, 710523

- Built-in microphone for enhanced safety with audio output (through the monitor) while backing up
- Waterproof housing
- IR-LED
- CMOS image technology (710522 uses CCD technology)
- Aluminum bracket and stainless steel mounting hardware included

#### 710326

- IR-LED
- CMOS technology reduces blooming
- Mounting bracket and hardware included

#### NOTES

#### CMOS

Complimentary metal oxide semiconductor

#### CCD

Charged couple device

#### Blooming

Glare due to sunlight, headlight conditions, etc.

**NOTE: Part numbers listed in RED are NEW!**

## CAMERAS

### Side View Cameras

- Velvac offers both traditional mount side view cameras and hood mount AeroCams, as well as side view CMOS cameras integrated into the Velvac 2020 Mini-LEM and V-MAX and V-MAX III LEM mirror systems (see page M37). Also featuring an integrated camera is the MirrorCam, part of the LaneOptics hood mount mirror series (see page M26).



AeroCam  
Post Cam



Short Arm  
AeroCam

### AeroCam Post Cams

Right Side #	Left Side #	FOV	Connector	IP Rating	Power
717994	717993	73.7° H, 61° V	B	IP69K	12 VDC
717994-5	717993-5	73.7° H, 61° V	A	IP69K	12 VDC

#### AeroCam Post Cam

- Post Cam kits include both ¾" O.D. and 1" O.D. SS tube clamps for unlimited mounting options
- 1" clamp wraps around camera post for easy mounting to almost any surface
- ¾" and 1" clamps can be nested together to allow Post Cam to mount to ¾" tubular hood or side mount mirrors
- Includes (2) 15' camera cables for routing to monitor or recording device
- Note: Camera must be mounted horizontally for proper camera view

### Short Arm AeroCams

Right Side #	Left Side #	FOV	Connector	IP Rating	Power
717870	717869	73.7° H, 61° V	B	IP69K	12 VDC
717992	717991	73.7° H, 61° V	A	IP69K	12 VDC

#### Short Arm AeroCam

- Easily attaches to any flat vertical surface
- Applications include: walk in van, refuse truck, yard tractor, fire truck
- Black powder coated tube arm and mounting base
- Includes mounting hardware and universal backing plates
- Base mounting pattern is 2" x 3.75"



### AeroCam

#### NOTES

For complete AeroCam kits with monitors see pages V12 - V13

#### AeroCam

- AeroCam pair includes right and left side AeroCams, cables and hardware

Pair #	Vehicle Model	FOV	Connector	IP Rating	Power
717971	Volvo VNL	81° H, 61° V	B	IP69K	12 VDC
717901	Volvo VNM	81° H, 61° V	B	IP69K	12 VDC
717878	Kenworth T700	81° H, 61° V	B	IP69K	12 VDC
717897	All other PACCAR vehicles	81° H, 61° V	B	IP69K	12 VDC
717953	Freightliner Cascadia	81° H, 61° V	B	IP69K	12 VDC



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## CAMERAS



Rear & Side View Camera



Rear View Camera

### Rear & Side View Cameras

- Sleek design protects camera from dirt and contamination
- IR-LED
- CMOS technology reduces blooming
- Mounting bracket and hardware included

Part #	Side	Housing	FOV	Connector	IP Rating	Power
709941	Left	Gray primer	95° H, 75° V	A	IPX7	12 VDC
709942	Right	Gray primer	95° H, 75° V	A	IPX7	12 VDC
709949	Left	Chrome	95° H, 75° V	A	IPX7	12 VDC
709948	Right	Chrome	95° H, 75° V	A	IPX7	12 VDC
710325	Rear	Black	80° H, 60° V	B	IP69K	12 VDC

### Rear View Camera

- High resolution color
- Waterproof housing
- Cylindrical 3/4" through hole mount
- IR-LED
- CMOS technology reduces blooming



### Front Facing Cameras

- High resolution color
- Waterproof housing
- Mounts on top or bottom of windshield
- CMOS technology reduces blooming

Part #	FOV	Connector	IP Rating	Power
717871	120° H, 90° V	B	IP69K	12 VDC



### Interior Cameras

- High resolution color
- IR-LED
- CCD image technology
- Mounting hardware included

Part #	FOV	Connector	IP Rating	Power
710589	120° H, 90° V	B	N/A	12 VDC

#### NOTES

**CMOS** Complimentary metal oxide semiconductor

**CCD** Charged couple device

**NOTE: Part numbers listed in RED are NEW!**

## MONITORS

- Velvac's color 5.6" and 7" LCD monitors are designed for heavy duty and commercial truck applications - built and tested to withstand extreme road conditions such as vibrations, electrostatic discharge, humidity and temperature changes and to deliver high quality images to the driver
- 5.6" and 7" monitors include audio speaker with volume
- 5" monitor has full camera views
- 7" monitor has 8 different view modes; view 1 to 4 cameras at a time
- Velvac's 3.5" color monitor in a rear view mirror provides the ultimate in safety and convenience. The image is invisible while in drive and only activates when the camera trigger is engaged



709915



710723



716314



710323



710324

### NOTES

- <sup>1</sup> Requires the addition of mounting brackets shown on page V7
- <sup>2</sup> Includes multi-image view modes: split screen (2-way), tri-view (3-way), and quad view (4-way); all other monitors have single screen viewing

Part #	Screen	Camera Inputs	Triggers	Mounting	Connector	Power
709915 <sup>1</sup>	5.6" Color LCD	2	2	4-hole amps pattern	A	12VDC
710723	7" Color LCD	4	4 + 1 split	T-slot	A	12VDC
716314	3.5" Color LCD	3	3	Universal windshield	A	12VDC
710323	5" Color LCD	3	3	Bracket included	B	12VDC
710324	7" Color LCD	4	4	Bracket included	B	12VDC

### Three Camera Controller

- Allows 716314 camera input monitor to be converted to accept (3) cameras simultaneously
- This controller allows different views to automatically engage based on triggers for left / right turn signals or reverse
- This flexible control box can be wired for full time viewing of the rear camera if needed



Part #	Description	Connector
716318	Three camera controller	A



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## MONITOR MOUNTS

Part #	Description
790563	4" Single knuckle monitor mount (4-hole amps pattern) bracket with thumbscrew
790564	6" Double knuckle monitor mount (4-hole amps pattern) bracket with thumbscrew
790576	Double knuckle monitor mount for 1" ball (4-hole amps pattern)
790605	Double knuckle monitor mount (T slot)



790563



790564



790576



790605

## CABLES

- Cables can be connected together to create various lengths
- Cable quantity and length will vary based on number of cameras and distance from camera to monitor
- Tractor to trailer camera cable kit includes all necessary straight and coiled cables to connect truck monitor to back up camera on top of trailer – the coiled cable is designed to safely span area between tractor and trailer

Part #	Description	Connector
747850	15' Camera to monitor cable	A
745243	15' Camera to monitor cable	B
747864	25' Camera to monitor cable	A
745244	25' Camera to monitor cable	B
747865	34' Camera to monitor cable	A
745245	34' Camera to monitor cable	B
747866	50' Camera to monitor cable	A
747867	75' Camera to monitor cable	A
745142	Camera splitter / Y-cable	B
745137	12" DVR adapter cable, B male / BNC	B
745138	12" DVR to camera cable	B
745252	Tractor to trailer camera cable kit*	B

\*Kit includes coiled cable assembly with plug connectors, mating sockets for truck and tractor, 33' of camera cable for routing to truck monitor and 65' of camera cable for routing to back of trailer / back up camera



'A' connector cable



'B' connector cable



Tractor to trailer camera cable

### Adaptor

- Use adaptor to connect A cameras to the B monitors (page V6)

Part #	Description	Connector
747894	Adaptor	A ---> B

**NOTE: Part numbers listed in RED are NEW!**

## CAMERA KITS

### Back-Up Camera Kits

- CMOS / IR-LED camera
- 5" Monitor with 3 camera inputs



Kit Part #	Camera	Monitor	Cables Included	Total Cable Length
719598	710326	710323	1 - 34'	34'
719599	710326	710323	2 - 25'	50'
719600	710326	710323	2 - 34'	68'

- CMOS / IR-LED camera
- 7" monitor has 8 different view modes; view 1 to 4 cameras at a time
- 4 Camera inputs



Kit Part #	Camera	Monitor	Cables Included	Total Cable Length
719601	710326	710324	1 - 34'	34'
719602	710326	710324	2 - 25'	50'
719603	710326	710324	2 - 34'	68'



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## CAMERA KITS



- For use with PACCAR SmartNav and NavPlus systems
- CMOS / IR-LED camera

Kit Part #	Camera	Cables Included	Total Cable Length
719612	710326	2 - 25'	50'

## Side View Camera Kits



- CMOS / IR-LED camera
- 5" Monitor with 3 camera inputs

Kit Part #	Camera	Monitor	Cables Included	Total Cable Length
719592	710325	710323	1 - 34'	34'
719593	710325	710323	2 - 25'	50'
719594	710325	710323	2 - 34'	68'

## CAMERA KITS

### Side View Camera Kits



- CMOS / IR-LED camera
- 7" monitor has 8 different view modes; view 1 to 4 cameras at a time
- 4 Camera inputs



Kit Part #	Camera	Monitor	Cables Included	Total Cable Length
719595	710325	710324	1 - 34'	34'
719596	710325	710324	2 - 25'	50'
719597	710325	710324	2 - 34'	68'



- CCD / IR-LED camera
- 7" monitor
- 4 Camera inputs
- 4" Single knuckle monitor mount

Kit Part #	Camera	Monitor	Monitor Mount	Cables Included	Total Cable Length
709954	710522	710723	790563	1 - 34'	34'



- CCD / IR-LED camera
- 7" monitor
- 3 Camera inputs
- 4" Single knuckle monitor mount

Kit Part #	Camera	Monitor	Monitor Mount	Cables Included	Total Cable Length
709921	710522	709915	790563	1 - 34'	34'



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## 5TH WHEEL DUAL CAMERA SYSTEM



The 5th Wheel Dual Camera System allows drivers to properly line up the king pin and fifth wheel, making coupling easier and preventing costly damage to the tractor or trailer

- Doors open automatically when vehicle is placed in reverse
- Dual cross hair cameras provide the driver with a clear view of king pin and fifth wheel alignment
- Heavy duty aluminum housing and reinforced molded doors help protect cameras from rain, snow and debris
- Integrated heating system allows for cold weather operation
- IR camera assists backing in low or no light conditions
- Mounting brackets are designed to fit a wide variety of vehicle applications
- Kits include dual camera, cables, hardware and installation information



### 5th Wheel Dual Camera Kit

Part #	Monitor	Mounting Bracket	Vehicle
710640	•	-	All
710640-1	•	•	All
710640-3	•	•	Kenworth
710640-4	•	•	Kenworth*
710651	-	-	All
710651-1	-	•	All
710651-3	-	•	Kenworth

### Service Parts

Part #	Description
710641	Camera enclosure
745241	Wire harness
710649	Control module
710324	7" Monitor
351108**	Mounting bracket
351109	Mounting bracket (Kenworth only)
745245	34' Camera cable

- Velvac offers kits with two different mounting brackets for easy installation
- Kenworth brackets are for use on Kenworth trucks only
- Universal bracket fits all other vehicle applications except for Paccar trucks\*\*

### NOTES

\* Compatible with Kenworth drop wire option package 8700919

\*\* Contact Velvac for information on Paccar mounting brackets

# VISION SYSTEMS

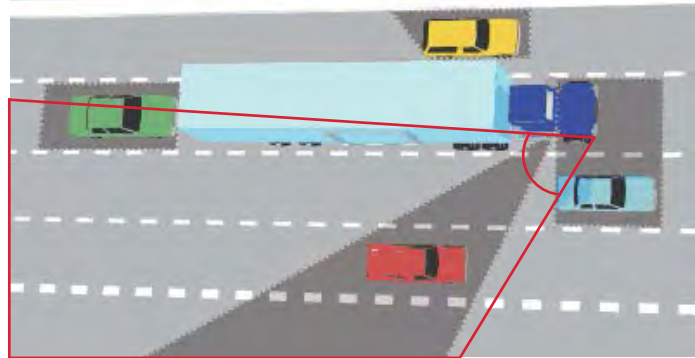
## AEROCAM VISION SYSTEM

### AeroCam Vision System

- Blind spot elimination system for heavy duty trucks
- The Velvac AeroCam is a camera-based vision system that provides the driver with clear views of blind spots and passing lanes around the vehicle, resulting in improved safety and reduced potential for costly and dangerous accidents
- According to National Highway Transportation Safety Administration (NHTSA), depth perception and object recognition are the keys to safe vehicle operation. With an optimal 65° viewing angle, CMOS vision processor and camera positioned above the splash zone, the AeroCam system clearly displays the most critical vision targets, allowing the driver to make faster and safer driving decisions. With its smaller profile in relation to conventional convex mirrors, the AeroCam is also designed to reduce drag, resulting in improved vehicle aerodynamics, a major contributor to improving fuel economy and reducing fuel consumption



**AeroCam Optimized  
65° Horizontal FOV**



Custom kits for PACCAR and Volvo vehicles are designed for specific hood geometry and wire routing



1" OD stainless steel tubing arm can be rotated for fine camera angle adjustment. Also rotates upon impact to reduce the potential damage



Available with right side and left side dedicated dash mounted monitors as shown above



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## AEROCAM VISION SYSTEM

Vehicle Model	Pair #	Right Side #	Left Side #	5" Monitor	7" Monitor
Volvo VNL	717823	-	-	2	-
	717825	-	-	-	1
	717824	717826	717827	1	-
	-	717812	717811	AeroCam Only	
Volvo VNM	717828	-	-	2	-
	717830	-	-	-	1
	717829	717832	717831	1	-
	-	717812	717811	AeroCam Only	
Kenworth T700	717813	-	-	2	-
	717815	-	-	-	1
	717814	717816	717817	1	-
	-	717810	717809	AeroCam Only	
Kenworth T700 w/ Nav	719635	719636	719637	-	-
	-	717810	717809	AeroCam Only	
All other PACCAR vehicles	717818	-	-	2	-
	717820	-	-	-	1
	717819	717822	717821	1	-
	-	717810	717809	AeroCam Only	
All other PACCAR vehicles w/ Nav	719632	719634	719633	-	-
	-	717810	717809	AeroCam Only	

### AeroCam Features

- Provides a clear view along the side of the truck and trailer to reduce blindspots and improve driver safety
- Optimized camera field of view provides better depth perception with less distortion: objects in blind spots appear larger and are easier to recognize on the color monitor
- Chrome plated aluminum mounting base with four hole mounting pattern for fast and easy installation. The same hole pattern as Velvac Pod and Mod Pod mirrors makes for easy retro-fits
- CMOS camera technology produces superior imaging and accurate colors even in extreme light conditions and harsh weather
  - » 40° to 85°C / -40° to 185°F
  - » Built-in anti-blooming protection to maintain visibility under sunlight, glare and headlight conditions
  - » Superior depth perception
  - » Vibrant colors and clarity
  - » Integrates seamlessly into the Kenworth NavPlus® and Peterbilt SmartNav™ monitors
- For a complete solution, Road-iQ and additional cameras can be integrated for full coverage
- FOV: 65° Horizontal, 55° Vertical
- IP Rating: IP69K

- Pair include right and left side AeroCams, monitor(s), cables and hardware
- Sides include right side or left side AeroCams, monitor, cables and hardware
- AeroCam Only is right side or left side AeroCam only; no monitor or hardware is included



NavPlus with Image from AeroCam



## Road-iQ Vision System



Road-iQ is a connected vehicle technology that integrates a powerful video processor, up to 7 cameras, a unique telematics server platform and a tablet with the Road-iQ Connect app to provide a range of features to help you drive safer and smarter.

### Components

#### 1. Video Data Server (VDS)

The heart of the Road-iQ system. It collects and manages videos, tagged events and vehicle data for display and recording/playback of notable events. The VDS supports the most powerful range of vehicle monitoring capabilities available including J1939, OBD II, CAN, ethernet, USB, GPIO and LIN for control and recording of vehicle functions.

#### Camera Configuration Example

**2. Forward/Driver Facing Camera** See page V5

**3. Rear Facing Camera** See page V3

**4. Hood Mount Cameras**

a. **MirrorCam** See page M26

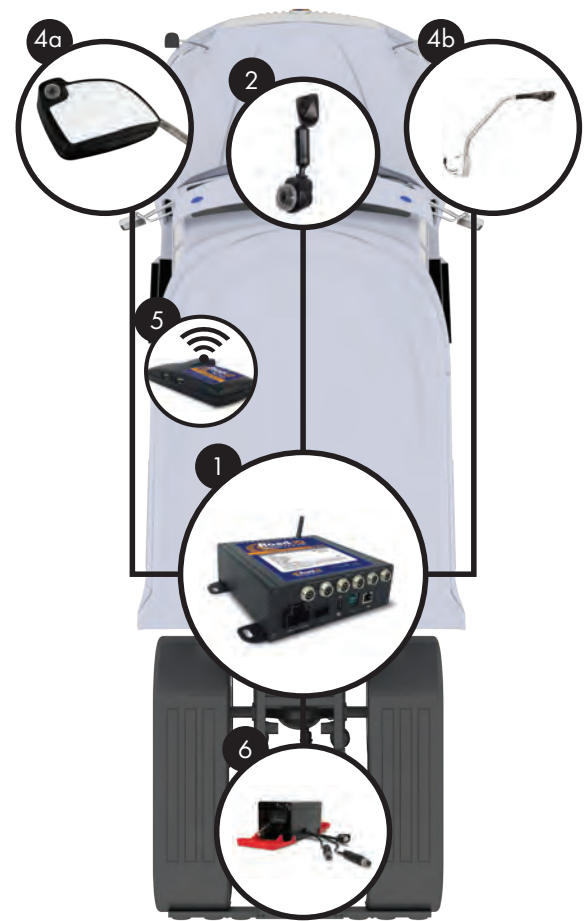
b. **AeroCam** See page V4

#### Optional Add-Ons

#### 5. NetHub

Enables cellular and Wi-Fi connection from the VDS to the cloud for access to the Road-iQ portal for live stream video analysis, recorded event viewing, data archiving, vehicle diagnostics and trip reporting.

**6. 5th Wheel Dual Camera System** See page V11



### Features



#### 360° Views

Coverage of your blind spots in any driving conditions.



#### Vehicle Recording

Capture all events from any of your vehicles' cameras.



#### Remote Video Access

Check on your vehicle from anywhere via the Road-iQ portal.



#### Vehicle Diagnostics

Specific fault descriptions alert driver and fleet managers of potential vehicle problems.



#### Flexible Display

Connect to an iPad or iPhone for viewing in cab by the driver.



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## Road-iQ Vision System



### How It Works



Connect any 6 cameras



VDS connects to J1939 or OBD II on vehicle



NetHub provides Wi-Fi hotspot and 4G LTE connection to the cloud



Display live camera views on a tablet or monitor for safer driving, along with local recording and playback of video

### Remote Viewing: The Portal

The NetHub (pictured above) allows for 4G LTE connectivity and a Wi-Fi hotspot for uploading video from all cameras. Simply log on to the online portal to remotely view a vehicle's real time footage, events, location and diagnostics.

### Live Viewing



## Road-iQ Vision System



### The Portal

#### Event Browsing

Event Description	Vehicle	Speed (Mph)	Event Date (US/Central)	Transfer Date (US/Central)
Hard Braking	101953		Mar 21, 2018, 7:55:05 AM	Mar 22, 2018, 3:07:51 AM
Hard Acceleration	161953		Mar 19, 2018, 5:42:15 PM	
Hard Braking	325403		Mar 19, 2018, 5:33:53 PM	Mar 22, 2018, 3:07:56 AM

#### Geotracking

#### Fleet Monitoring

Last Connection Time	Name	Sub Company	Recent Events	Active DTCs
1 month	325164	-	0	1
1 month	325246	-	0	0
1 month	325247	-	0	0
1 month	325248	-	0	0
1 month	325401	-	0	0
1 month	325403	-	0	0
1 month	325718	-	0	0
1 month	325719	-	0	0

For more information, contact our sales team



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**OUR PARTS PUT YOU IN THE PASSING LANE**

# HOSE SUPPORT

## **Hose and cable support accessories.**

Velvac has the pogo sticks and suspenders you need to organize your hoses and cables to get maximum life from these vital components.

- Pogo sticks
- Springs & handles
- Hose & cable accessories



# HOSE SUPPORT

## HOSE AND CABLE SUPPORT ACCESSORIES



### Hose & Cable Suspenders

- Molded of durable rubber components which remain flexible to -40°F
- Will not stretch out or corrode like traditional steel support springs
- Reduce damage to cab body paint
- 3/4" diameter holes
- For use with hose brackets, pogo sticks and slide bars

Part #	Overall Length
580081	5"
580082	12"
580086	16"
580094	24"



580037, 580043



580038



580039



### Slide Bar & Hose Suspenders Kit

- Slide bar is 3/4" O.D. stainless steel tubing with 42-1/2" mounting centers
- Kit includes slide bar, 24" hose and cable sponder, nylon ring and zinc-plated steel "S" hook

Part #	Description
580066	Complete kit
580078	Replacement ring with "S" hook
580067	Replacement slide bar
580076	"S" hook



580040

### Hose Holders & Separators

- ABS plastic construction

Part #	I.D.	Description
580043	1/2"	2 Hose separator
580037	3/8"	2 Hose separator
580038	3/8"	4 Hose separator
580039	3/4"	2 Hose separator
580040	.62"	3 Hose separator
580041	.62"	4 Hose separator



Replacement tracker bar kit

### Replacement Tracker Bar Kits

Tracker bar tender kits are designed to hold air lines and electrical cables to prevent kinks and abrasions during normal highway use.

#### KIT INCLUDES:

- **16" or 20" Spring:** plated for added corrosion resistance and double looped ends for additional strength
- **Snap clip:** rust resistant stainless steel which clips easily onto a tracker bar or pogo stick
- **3 Hose holder assembly:** neatly holds two air hoses and an electrical cable
- **Velvac woven mesh jacket:** protects spring from the elements while giving a clean look

Part #	Description
580111	Kit with 16" spring
580112	Kit with 20" spring
580107	Stainless steel snap clip



580041

**NOTE: Part numbers listed in RED are NEW!**



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# HOSE SUPPORT

## HOSE AND CABLE SUPPORT ACCESSORIES



### Replacement Clamp

- Replaces hanger clamp for 3-in-1 or 4-in-1 air/electrical combo

Part #	Description
580044	Replacement clamp



### Hose Support Springs

- Springs support either air or vacuum lines
- Heat-treated and zinc plated spring steel construction provides corrosion resistance
- Double wire loop ends add extra strength

Part #	Description
038001	3/4" O.D. x 13" long
038003	1" O.D. x 13" long
038008	1-1/8" O.D. x 8" long
038005	1-1/8" O.D. x 28" long



### Grab Handles

- 3/4" O.D. heavy gauge stainless steel tubing
- 5/16" diameter mounting holes

Part #	Description	Grabbing Width
690021	12" Span	3"
690022	18" Span	2"
690023	24" Span	2"

NOTE: Span measurement taken between mounting holes

## POGO STICKS



Part #	Description	Size
581100	Zinc and yellow dichromate	24"
581100-5	Zinc and yellow dichromate w/ holder	24"
581101	Zinc and yellow dichromate	40"
581101-5	Zinc and yellow dichromate w/ holder	40"
581106	Zinc and yellow dichromate	50"
581106-5	Zinc and yellow dichromate w/ holder	50"
581102	Chrome	24"
581102-5	Chrome w/ holder	24"
581103	Chrome	40"
581103-5	Chrome w/ holder	40"
581107	Chrome	50"
581107-5	Chrome w/ holder	50"
581104	Stainless steel	24"
581104-5	Stainless steel w/ holder	24"
581105	Stainless steel	40"
581105-5	Stainless steel w/ holder	40"

# HOSE SUPPORT

## POGO STICKS

- Durable, powder coated steel bodies provide excellent support for air, vacuum and electrical lines
- Snubber chain assembly helps prevent pogo stick from coming in contact with cab
- Heavy-duty, e-coated, oil-tempered steel springs can withstand 90° from vertical bends
- 5/8" - 11 stud and nut for extra support
- Heavy fabric hose holder strap included where pictured



Hose and cable suspender  
US Patent No. 4,358,082



*NO SNUBBER CHAIN  
for use only when  
pogo stick is at  
least 24" away  
from cab*

- Combines popular 40" pogo stick with 5" rubber hose and cable suspender
- Adapter kit retrofits 5" hose and cable suspender on existing pogo sticks and includes "S" hook and eyebolt hardware (9/32" hole is required for installation of eyebolt)

Part #	Description
581001	40" Pogo stick with snubber chain
581005	40" Pogo stick with gladhand holder and snubber chain
581006	Gladhand holder kit

Part #	Description
581011	40" Pogo stick
581015	40" Pogo stick with gladhand holder
581006	Gladhand holder kit

Part #	Description
581040	Pogo stick and hose suspender assembly with snubber chain
581038	Hose and cable adapter kit



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**OUR PARTS PUT YOU IN THE PASSING LANE**

# AIR

## High quality air components.

From gladhands to slack adjusters to seat valves, Velvac is your full system provider for critical and convenient air components for your commercial vehicle.

- Extensive line-up of air products
- TS-certified manufacturers
- Exceeds industry specifications



## GLADHANDS

### Iron Gladhands with Polyurethane Seals



- Solid, one-piece construction
- Service and emergency gladhand color-coated for easy identification
- Color-coded polyurethane seal
- Positive, spring loaded locking mechanism keeps gladhand properly positioned
- 1/2" FPT port
- Meets SAE J318 specs including breakaway requirement

**Lifetime guarantee covers both gladhands and seals!**

Part #	Description
035031	Universal gladhand w/ black polyurethane seal
035032	Emergency gladhand w/ red polyurethane seal
035033	Service gladhand w/ blue polyurethane seal

### Shutoff Gladhands

- Lightweight die cast aluminum bodies
- Clamp plates are color-coded for easy identification
- Polyurethane seal included
- 1/2" or 3/8" nylon air tube fitting
- Emergency gladhand with 1/4" - 18NPT port for pindle hook air line fitting
- Meets SAE J318 requirements



Part #	Description
035094	3/8" Service gladhand
035095	3/8" Emergency gladhand
035173	1/2" Service gladhand
035174	1/2" Emergency gladhand

### Premium Powder Coated Gladhand



- Available in service and emergency color coding
- Powder coated aluminum improves corrosion resistance
- Polyurethane seals improve resistance to oil and chemicals
- Bright color coding allows for easy brake line identification
- Stainless steel wear plates are resistant to corrosion and improve service life
- Meets SAE J318 requirements
- 1/2" FPT port

Part #	Description
035169	Powder coated service gladhand w/ polyurethane seal
035170	Powder coated emergency gladhand w/ polyurethane seal

### Shutoff Gladhands

- Lightweight die cast aluminum bodies
- Clamp plates are color-coded for easy identification
- Rubber seal included
- Includes mounting seal to prevent corrosion between gladhand and trailer
- Metal inner ball for increased wear ability
- Meets SAE J318 requirements
- 3/8" - 18 port



035152

Part #	Description
035152	Emergency shutoff
035151	Service shutoff

### 37° Bracket Mount Gladhand



- Lightweight die cast aluminum bodies
- Clamp plates are color-coded for easy identification
- Color-coded polyurethane seal included
- (2) 3/8" FPT ports (one plugged)
- (2) 11/32" diameter mounting holes
- Meets SAE J318 requirements

Part #	Description
035092	Service gladhand
035093	Emergency gladhand

### Aluminum Gladhands

- Velvac's most economical gladhand
- Clamp plates are color-coded for easy identification
- All include flat rubber coupling seal
- 1/2" FPT port
- Meets SAE J318 requirements



035038



035181



035180

Part #	Description
035038	Universal gladhand
035042	Emergency gladhand
035045	Service gladhand
035179	Aluminum emergency gladhand w/ screen filter
035180	Aluminum service gladhand w/ screen filter
035181	Aluminum emergency gladhand w/ guardian seal and flap
035182	Aluminum service gladhand w/ guardian seal and flap



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## GLADHANDS

### Pivoting Gladhands



- Spring loaded to safely swing out of the way when not in use
- Seals out contaminants when not in use
- 3/8" - 18 NPTF ports

Part #	Description
035167	Blue - service
035168	Red - emergency

### Polyurethane Gladhand Seals



- Color-coded seals will not crack or tear, reducing maintenance time and cost associated with rubber seal replacement
- Available in attractive display box with 25 sets of seals (set consists of 4 seals per bag, 2 red and 2 blue). See RETAIL section

Part #	Description
035009	Red polyurethane seals
035010	Blue polyurethane seals
035011	Black polyurethane seals
035012	Display box with seals

### "Pacifier" Gladhand Seal

- Reusable gladhand sealing device protects air lines from dust, debris and moisture



Part #	Description
035142	"Pacifier" gladhand seal

### Plated Aluminum Gladhands (with E-Coating)

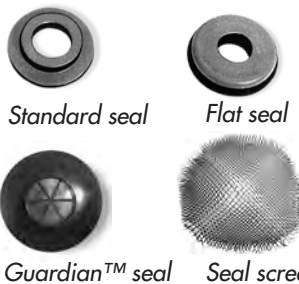
- E-Coated aluminum gladhand body with a full face plate
- E-Coated aluminum improves corrosion resistance and provides better protection than typical zinc plating
- Service and emergency gladhands have a powder coated face plate for increased corrosion resistance
- Universal gladhand has a zinc plated face plate for increased corrosion resistance
- Rubber seal
- Meets SAE J318 requirements

- Color coded for easy hose identification
- Emergency is polarized to eliminate incorrect hose connections
- Cost saving angle mount eliminates the need for extra mounting hardware



Part #	Description	Replaces Haldex-Midland Number	Connection Thread
035143	Plated - service	11452	1/2" Pipe thread
035144	Plated - emergency	11451	1/2" Pipe thread
035145	Plated - universal	11450	1/2" Pipe thread
035146	Plated - 37° service	11444	1/2" Pipe thread
035147	Plated - 37° emergency	11441	3/8" Pipe thread

### Rubber Gladhand Seals



- Seals constructed of durable black Buna N compound
- "Guardian" seal with rubber flap and metal seal screen help protect air lines from debris

Part #	Description
035005	Standard seals
035007	Flat seals
035140	Seal screen
035141	Guardian seal with flap

Guardian™ is a trademark of Velvac, Inc

### Energy Suspension® Seals



- Could be the last seal you buy!
- Designed to fit all SAE approved gladhands
- Polyurethane seals improve resistance to oil and chemicals, increasing service life and decreasing down time
- Will not crack, dry out or tear like the conventional rubber seals
- Rated to -40°F
- 50 seals per bag

Part #	Description
035165	Blue service seal
035164	Red emergency seal
035166	Black universal seal

Energy Suspension® is a registered trademark of Energy Suspension

## GLADHANDS

### Gladhand Seals with Built-in Screens



- Polyurethane seals with stainless steel screens built in
- Traps harmful contaminants before they can cause an air break system failure
- Keeps bugs out of the air lines
- Available in blue, black and red

Part #	Description
035175	Blue service seal with screen
035176	Red emergency service seal with screen
035177	Black universal service seal with screen

### Stow-A-Way™ Gladhand and Plug Holder



580042

- Holds gladhand and electrical hook ups at a 45° angle for easy insertion and extraction
- When properly placed, allows cable and air line storage with both feet firmly on the ground
- Designed for heavier ABS cables
- Standard mounting holes make it easy to replace older designs
- Glass-filled nylon, non-corrosive construction

Part #	Description
580042	Stow-A-Way gladhand & plug holder
580123	Stow-A-Way single plug holder & (2) gladhands

#### Helpful hint:

Improve leverage and reduce air hose kinks by using one of the two styles of gladhand grips

### GladhandL™ Gladhand Grips



035070



035178

- 1/2" NPTF
- Sold in pairs in an attractive display package with information header
- Part No. 035070 polyurethane style features a soft grip with a machined steel core
- Part No. 035178 solid aluminum style features an anodized body with a diamond knurl

Part #	Description
035070	(1) red and (1) blue polyurethane GladhandL™ grip with hardware
035178	(1) red and (1) blue solid aluminum gladhand grip, hardware not needed

### Gladhand Holder Kit



- Designed to mount on all Velvac pogo sticks
- Holds and seals gladhands when tractor is disconnected from trailer
- Durable zinc-plated steel construction
- Single gladhand holder can be mounted directly to cab using 5/16" bolt holes
- Kit includes two gladhand holders and mounting hardware

Part #	Description
581006	Gladhand holder kit
580009	Gladhand holder only

### Dummy Coupling



035036



035100

- Durable zinc-plated steel construction for corrosion resistance
- 6-1/2" Coupling length
- 8-1/2" Chain Length, 18" cable

Part #	Description
035036	Vented dummy coupling
035037	Non-vented dummy coupling
035100	Dummy shut-off gladhand

### Glad-Lock™



- Rugged polypropylene gladhand lock helps prevent unwanted connections to tractors and trailers
- Universal design for use on many types of aluminum or iron gladhands
- Two keys furnished with each lock

Part #	Description
035150	Glad-Lock w/ matching keys
035150-6	Glad-Lock w/ random keys

### Line Identification Tags

- 22 gauge aluminum construction with bright red enamel lettering
- 7/8" diameter hole



Part #	Description
035025	Emergency tag
035026	Service tag

GladhandL™, Glad-Lock™ and Stow-A-Way™ are trademarks of Velvac, Inc



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## AIR BRAKE HOSE AND TUBING

### Air Brake Hose

- Manufactured to a minimum burst pressure of 870 psi
- Conforms to SAE J1402 and DOT -106 standards
- Performs within an operating temperature range of -40° to +200°F



Part #	Hose I.D.	Hose O.D.	Coil Length
022011	3/8"	3/4"	50'
022011-7	3/8"	3/4"	250'
022047	1/2"	7/8"	50'
022047-7	1/2"	7/8"	250'

\*See pages FH8 & FH9 for applicable reusable fittings

### Slider Air Hose Assemblies with Spring Guard



Part #	Length	Tube O.D.	Tube I.D.
149119	72"	3/8"	3/8"
149120	96"	3/8"	3/8"
149121	108"	3/8"	3/8"
149122	102"	3/8"	3/8"
149123	120"	3/8"	3/8"
149124	102"	1/2"	3/8"
149125	108"	1/2"	3/8"

### Air Brake Hose Assemblies



- Brake hose assemblies meet SAEJ1402 requirements
- Fittings are permanently swaged

Length (Inches)	3/8" I.D. Hose 1/4" Ends One End Fixed One End Swivel	3/8" I.D. Hose 3/8" Ends One End Fixed One End Swivel	3/8" I.D. Hose 3/8" Ends Both Ends Swivel	1/2" I.D. Hose 3/8" Ends One End Fixed One End Swivel	1/2" I.D. Hose 3/8" Ends Both Ends Swivel	1/2" I.D. Hose 1/2" & 3/8" Ends, One End Fixed-1/2", One End Swivel-3/8"
9	147009	-	-	-	-	-
12	147012	-	-	148012	-	-
16	147016	-	-	148016	-	-
18	147018	146018	146518	148018	148518	149018
20	147020	146020	146520	148020	148520	149020
22	147022	146022	146522	148022	148522	-
24	147024	146024	146524	148024	148524	149024
26	147026	146026	146526	148026	148526	149026
28	147028	146028	146528	148028	148528	149028
30	147030	146030	146530	148030	148530	149030
32	147032	146032	146532	148032	148532	149032
34	147034	146034	146534	148034	148534	149034
36	147036	146036	146536	148036	148536	149036
38	147038	146038	146538	148038	148538	-
40	147040	146040	146540	148040	148540	-
42	147042	146042	146542	148042	148542	149042
44	147044	146044	146544	148044	148544	-
46	147046	146046	146546	148046	148546	149046
48	147048	146048	146548	148048	148548	149048
52	-	146052	-	-	-	-
54	147054	146054	146554	148054	148554	-
60	147060	146060	146560	148060	148560	149060
66	-	-	-	148066	-	-
72	147072	146072	146572	148072	148572	149072
84	-	146084	146584	148084	148584	-
96	-	-	146596	148096	148596	-

## AIR BRAKE HOSE AND TUBING

### Air Compressor Discharge Hose



- Stainless steel braided outer jacket
- Extruded inner Teflon® tube prevents carbon buildup
- Withstands extreme temperatures of -100° to +450°F

- Hose and reusable fittings can be assembled to produce air compressor discharge hose assemblies

\*See pages FH10 & FH11 for applicable reusable fittings

Part #	I.D.	O.D.	Coil Length	Recommended Working Pressure (psi)	Minimum Bursting Pressure (psi)	Minimum Bend Radius
142113	1/2"	5/8"	25'	1500	8500	6-1/2"
142113-7	1/2"	5/8"	100'	1500	8500	6-1/2"
142114	5/8"	3/4"	25'	1200	6000	7-3/4"

### Air Compressor Discharge Hose Assemblies



- 5/8" straight tube x 5/8" compression fitting
- Hose measures 5/8" O.D., 1/2" I.D.

Part #	Length
142118	18"
142124	24"
142130	30"
142136	36"
142148	48"



- 3/4" straight tube both ends
- Hose measures 3/4" O.D., 5/8" I.D.

Part #	Length
142436	36"



- 5/8" straight tube both ends
- Hose measures 5/8" O.D., 1/2" I.D.

Part #	Length
142324	24"
142336	36"

### Rubber Air Line Hose

- Tractor to trailer air line hose assembly
- Hose measures 3/8" O.D., 1/2" I.D.



- Female swivel both ends
- Hose measures 5/8" O.D., 1/2" I.D.

Part #	Length
142518	18"
142524	24"
142536	36"
142552	52"
142554	54"
142572	72"
142584	84"



- 5/8" compression fitting both ends
- Hose measures 5/8" O.D. 1/2" I.D.

Part #	Length
142618	18"
142624	24"

Part #	Description
140139	10' Black
140140	12' Black
140141	15' Black
140142	20' Black
140133	12' Blue
140135	15' Blue
140134	12' Red
140136	15' Red

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## AIR BRAKE HOSE AND TUBING

### Air Brake Hose Repair Fitting

- Kit for easy repair of 3/8" rubber air brake hose
- One package contains two fittings and one hex installation tool, all in a clamshell for retail display

- One package will repair two 3/8" rubber air brake hoses
- Male fittings feature pre-applied sealant
- Meets DOT 106 SAE J1402 requirements



### Trailer Nose Box Hose Assembly



- Fits conventional and recessed trailer nose boxes
- Manufactured with 3/8" I.D., SAE Type A four spiral air brake hose
- 1-1/2" swaged end fitting, 1-1/2" reusable end fitting with spring
- 5-3/4" length
- Assembly meets SAE J1402 and FMVSS 106 requirements

Part #	Fitting Size	Sloan #	Tectran #	Tramec #
500007	3/8"	431402	70-31402	31402
500008	1/2"	431403	70-31403	31403

### Nylon Tubing

- SAE Type A tubing is single wall extruded non-reinforced nylon
- SAE Type B tubing has seamless extruded nylon core with fiber reinforced protective nylon cover
- Can be used with either air brake or nylon tube fittings
- 150 psi maximum working pressure
- Withstands temperatures of -40° to +200°F
- Tubing meets SAE J844 and FMVSS 106 requirements



**For air brake systems only,  
NOT for fuel line applications**

Part #	Description
140079	Trailer nose box hose assembly

NOTE: Replacement fitting assembly with spring available - see Part No. 500019 on page FH9

NOTE See pages FH2-FH9 for applicable fittings  
\*Does not meet DOT or SAE specifications

Black Part #	Blue Part #	Green Part #	Red Part #	Yellow Part #	Tube O.D.	SAE Type	Coil Length
020062	020132	020142	-	-	1/8"	A	100'
020062-7	-	-	-	-	1/8"	A	1000'
020065	-	-	-	-	5/32"	A	100'
020066	-	-	-	-	3/16"	A	100'
020064	020134	020144	020154	020164	1/4"	A	100'
020064-6	020134-6	020144-6	020154-6	020164-6	1/4"	A	1000'
020052*	-	-	-	-	5/16"	A	100'
020053	020136	020146	020156	020166	3/8"	B	100'
020053-7	020136-7	020146-7	020156-7	020166-7	3/8"	B	500'
020055	020138	-	020158	020168	1/2"	B	100'
020055-7	020138-7	-	020158-7	020168-7	1/2"	B	500'
020057	-	020157	-	-	5/8"	B	100'
020057-7	-	-	-	-	5/8"	B	250'
020059	-	-	-	-	3/4"	B	100'
020059-7	-	-	-	-	3/4"	B	250'

## AIR BRAKE HOSE AND TUBING

### Fifth Wheel Slider Coil



- Continuously returns to original shape
- Flexes from 10" to 54"
- Includes (2) 1/4" tube 1/4" MPT fittings
- Temp range from -40° to 208°F
- Max. pressure rating of 150 psi
- Meets SAE J844 requirements

Part #	Description
022028	Fifth wheel slider coil

### Cab Blower Kit

- Designed for truck cab or low pressure shop use
- Air hose rated at 200 psi max recommended operating pressure
- Kit includes 50' hose, economy air nozzle, tire inflator and gladhand



Part #	Description
149001	Cab blower kit - rubber
149002	Air blow gun



### Air Cab Blow Gun Kit

Kit includes:

- Pre-installed DOT nylon tube fittings
- SAE J844 coiled nylon tube that extends from 10" to 54"
- Two nozzle fittings and lever-type air gun



Part #	Description
149126	Air cab blow gun kit

### Tube Cutter

Part #	Description
090028	Nylon tube cutter

## 3-IN-1 AIR/ELECTRICAL ASSEMBLIES



Part #	Length
145110	10'
145112	12'
145115	15'
145120	20'

- Contains a service air line, emergency air line and an ABS power line (green)
- Enclosed in a heavy duty, beveled edge, spiral wrap
- The spiral wrap keeps the unit neat and compact and provides protective covering
- Air hose assemblies conforms to SAE J1402 / FMVSS 107
- ABS cable assembly conforms to SAE J2394 and the 7-way plug to SAE J560

## 4-IN-1 AIR/ELECTRICAL ASSEMBLIES



Part #	Length
145212	12'
145215	15'

- Contains a service air line, emergency air line, ABS power line (green) and ISO power line (yellow)
- Air hose assemblies conforms to SAE J1402 / FMVSS 107
- ABS cable assembly conforms to SAE J2394 and the 7-way plugs to SAE J560 and ISO 3731, respectively



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## COILED NYLON TUBING

### Coiled Nylon Tubing Assembly Kits

- Assemblies include permanently swaged 1/2" - 14 NPTF end fittings with heavy gauge spring for extra support



12' Assembly kit

- Each standard kit contains one emergency (red) and one service (blue) 1/2" O.D. nylon tubing assembly



15' and 20' Assembly kit

- Assemblies meet SAE J844 and FMVSS 106 requirements



15' Assembly kit with long lead

- 6" lead on both ends

Part #	Description
022002	Standard kit
022004	Emergency only
022009	Service only

- 12" lead on both ends

Part #	Length	Description
022025	15'	Standard kit
022026	15'	Emergency only
022027	15'	Service only
022030	20'	Standard kit
022031	20'	Emergency only
022032	20'	Service only

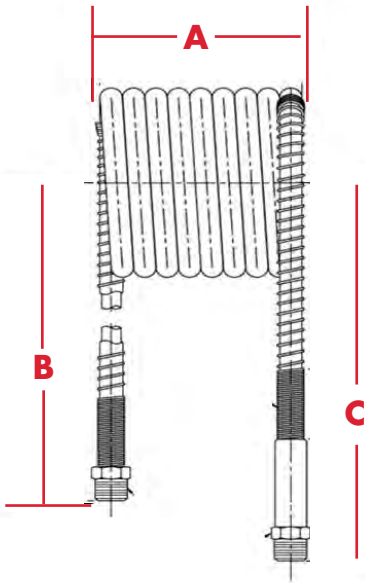
- One 40" lead, one 12" lead

Part #	Description
022001	Standard kit
022005	Emergency only
022008	Service only



## GLACIER AIR LINES

### Glacier Air Coils



- Larger 5.5" coil O.D. prevents kinking and provides superior recoil and coil memory
- Meets or exceeds applicable requirements of SAE J844, J1131 and FMVSS 571.106
- Durable heavy duty jacketing means coils remain flexible at -85°F (-65°C)
- Permanently swaged 1/2-14 NPTF end fittings with thread sealer simplifies assembly
- 2.5" integrated brass handle allows for easier coupling and uncoupling of gladhands

Part #	Description	Working Length - A	Leg Length - B	Leg Length - C
022633	Glacier coil set			
022634	Red	12'	9.25"	11.5"
022635	Blue			
022636	Glacier coil set			
022637	Red	15'	9.25"	11.5"
022638	Blue			
022639	Glacier coil set			
022640	Red	15' Long lead	41.25"	11.5"
022641	Blue			
022642	Glacier coil set			
022643	Red	20'	9.25"	11.5"
022644	Blue			



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## AIR BRAKE VALVES

### Dash Control Valves (PP-1, PP-2, PP-3, PP-7, and PP-8 Styles)



- PP-1 Style
- Automatic pressure release at 40 psi
- 1/8" NPT supply port
- Knob and mounting nut sold separately (see page A12)



034015  
(as shown; top portion only is different)

- Direct replacement for Bendix 275250, 276462
- PP-2 Style
- Automatic pressure release at 40 psi
- 1/8" NPT supply port
- (2) 1/8" NPT delivery ports
- 1/8" NPT brake valve port
- Knob and mounting nut sold separately (see page A12)



034017



034018

- PP-3 Style
- Tripper exhausts at 30 psi and charges above 50 psi
- Plunger trips at 40 psi and charges manually
- 1/8" NPT supply port
- 1/4" NPT delivery port
- 1/4" NPT exhaust port
- Knob and mounting nut sold separately (see page A12)

Part #	Delivery Ports	Replaces
034013	(2) 1/8" NPT	Bendix 275175, 276566, 276567 & Midland KN20021
034015*	(2) 1/8" NPT	Bendix 279786, 281587
034014	(2) 1/4" NPT	Bendix 287417, 287600

Part #	Description
034016	Pressure balanced dash control valve



034080  
(as shown; top portion only is different)

- PP-7 style
- Automatic pressure release at 40 psi
- Non-override at 25 psi
- 1/8" NPT supply and control ports
- 1/4" NPT delivery port
- 1/4" threaded exhaust port on Part No. 034079
- Knob and mounting nut sold separately (see page A12)

Part #	Description	Replaces
034017	Automatic tripper dash control valve	Bendix 288746
034018*	Automatic tripper dash control valve	Bendix 279787

\*Remote controlled - 1/4" - 20 female thread for knob or cable

\*Remote controlled - 1/4" - 20 female thread for knob or cable



- Direct replacement for Bendix 287238 & Midland KN20035
- PP-8 style
- Automatic pressure release at 20 psi
- 1/8" NPT supply, delivery (2) and exhaust ports

Part #	Description
034019	Dash control valve

Part #	Shaft Diameter	Replaces
034051	3/8"	Bendix 288239, 288721 & Midland KN20025
034079	5/16"	Bendix 106113, 288241
034080*	1/2"	Bendix 288242

\*Remote controlled - 1/4" - 20 female thread for knob or cable

### Push-Pull Dash Control Valve

- Direct replacement for Midland KN20030, KN20031
- Automatic pressure release at 25-35 psi
- All ports 1/4" NPT
- 1/4" - 28 thread size



Part #	Description
034055	Dash control valve

## AIR BRAKE VALVES

### Pressure Reducing Valve (RV-1 Style)

- Direct replacement for Bendix 283590
- Used where a constant set pressure lower than supply pressure is required
- Adjustable-factory preset at 70 psi
- 1/4"-18 NPT supply and delivery ports



Part #	Description
034085	Pressure reducing valve

### Tractor Protection Valve (TP-3 Style)

- Direct replacement for Bendix 279000 & Midland KN34060
- 1/4" NPT tractor emergency port
- 3/8" NPT tractor service port
- 1/2" NPT trailer emergency and trailer service ports



Part #	Description
034068	Tractor protection valve

NOTE: Always use this valve in conjunction with a PP-1, PP-3 or PP-7 style dash control valve (see page A11)

### Knob and Pin Kits



034049



034054



034053



034050



034052

Part #	Description	Replaces
034049	Trailer air supply knob and pin kit for PP-7 style dash control valve	Bendix 290655 & Midland KN20900
034050	Parking brake knob and pin kit for PP-1 style dash control valves	Bendix 248433 & Midland KN20903
034052	Plain black knob and pin	Bendix 241866
034053	Pull to Park/ Push to release parking brake knob and pin kit for PP-1, PP-2 and PP-3 style dash control valve	Bendix 240302
034054	Dash control valve mounting nut	Bendix 239357

NOTE: All knob kits include roll pin for securing valve

### Tractor Protection Valve (TP-5 Style)

- Direct replacement for Bendix 288605
- Formerly VM-2 style control valve manifold
- 3/8" NPT service and trailer / emergency supply ports (rear)
- 1/4" NPT stop light switch port
- 3/8" NPT trailer control port
- 1/2" NPT trailer service and trailer emergency supply ports



Part #	Description
034082	Tractor protection valve

### Dash Control Valve (MV-3 Style)

- Direct replacement for Bendix 065157, 800516
- Combination PP-1 and PP-7 valve
- 1/4" diameter horizontal mounting holes at 4-7/32" O.C.
- 1/4" diameter vertical mounting at 3" O.C. mounting holes



Part #	Description
034081	Dash control valve
034148	Trailer air supply and parking brake knob and pin kit for MV-3 style valve



034148



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## AIR BRAKE VALVES

### Modulating Relay Valve (R-7 Style)

- Direct replacement for Bendix 103081, 283932
- 3/8" NPT supply and (2) delivery ports
- 1/4" NPT control and balance ports
- Spring brake release pressure of 95 psi



Part #	Description
034023	Modulating relay valve

### Double Check Valve (DC-4 Style)

- Direct replacement for Bendix 278614 & Midland KN25060
- All ports 3/8" NPT
- May be mounted in any position



Part #	Description
034062	Double check valve

### Relay Valve

- Direct replacement for Midland KN28060
- 3/8" NPT control port
- (2) 1/2" NPT supply (reservoir) ports
- Crack pressure 4.6 psi
- (2) 3/8" delivery ports



Part #	Description
034059	Relay valve

**NOTE: Part numbers listed in RED are NEW!**

### Relay Valves (R-6 Style)

- 1/4" NPT service port
- (4) 3/8" NPT delivery ports



Part #	Supply Port(s)	Replaces
034020	(1) 1/2" NPT	Bendix 279180, 280375
034021	(1) 3/4" NPT (in mounting flange) (1) 3/8" NPT	Bendix 279952

### Relay Valve (R-8 Style)

- Direct replacement for Bendix 286370, 286371
- 1/4" NPT service port
- (2) 3/4" NPT supply ports
- (2) 1/2" NPT, (1) 1/4" NPT delivery ports
- 1/8" NPT balance port located under exhaust cover
- Cracking pressure 3 psi



Part #	Description
034024	Relay valve

### Relay Valves (R-12 and R-14 Styles)



R-12 Style



R-14 Style 1/2" NPT



R-14 1/8" NPT balance port located under exhaust cover

Part #	Style	Supply Port(s)	Delivery Ports	Replaces
034025	R-12	1/2" NPT	Verticle (4) 1/2" NPT	Bendix 102166, 102626
034026	R-12	(2) 3/4" NPT	Horizontal (2) 1/2" NPT	Bendix 103009
034027	R-14	(2) 3/4" NPT	Horizontal (2) 1/2" NPT	Bendix 103010
034028	R-14	1/2" NPT	Verticle (4) 1/2" NPT	Bendix 103028

### Relay Valves (RG-2 Style)

- Fast, low cracking pressure - 5 psi
- 1/4" NPT control port



Part #	Reservoir Ports	Delivery Ports	Replaces
034056	(2) 3/8"	(2) 3/8"	Midland KN28500
034057	(1) 3/8", (1) 1/2"	(2) 3/8"	Midland KN28510
034058	(2) 1/2"	(2) 1/2"	Midland KN28520

## AIR BRAKE VALVES

### Relay Emergency Valve (RE-6 Style)

- Direct replacement for Bendix 281865
- 1/4" NPT service and emergency ports
- (1) 3/4" NPT, (1) 3/8" NPT supply ports
- (2) 3/8" NPT, (2) 1/4" NPT delivery ports



Part #	Description
034029	Relay emergency

### Multi-Function Trailer (RT-4 Style)

- Direct replacement for Midland KN26000
- 3/8" NPT trailer supply and control ports
- 1/2" NPT and 3/8" NPT reservoir ports
- (4) 3/8" NPT delivery ports
- PPV closing pressure at 55 psi



Part #	Description
034063	Multi-function trailer valve

### Relay Emergency Valves



034066

- 1/4" NPT delivery and service control ports
- 1/2" NPT supply port



034067

- 1/4" NPT service and emergency inlets
- (4) 3/8" NPT delivery ports
- 3/4" NPT reservoir
- Crack pressure 3 psi



034069  
(w/ratio feature)

- 1/4" NPT emergency and service ports
- (4) 3/8" NPT delivery ports
- 3/4" NPT reservoir port

Part #	Description	Replaces
034066	Relay emergency valve	Sealco A-1000
034067	Relay emergency valve	Midland KN30400 & Wagner A99036
034069	Relay emergency valve	Sealco 110200

### Air Governors (D-2 Style)

- Factory preset opening and closing pressures of 100 to 120 psi
- (6) 1/8" NPT ports and two mounting holes
- Mounting gasket and (4) 1/8" socket head pipe plugs included
- High temperature governor designed with high temperature withstanding O-rings
- Individually boxed



Part #	Description	Replaces
032131	Air governor	Bendix 275491 & Midland KN18530
034083	High temperature air governor	Bendix 284358 & Midland KN18534



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## AIR BRAKE VALVES

### Foot Valves (E-3, E-6, and E-7 Styles)

- Direct replacement for Bendix 277863 & Midland KN22100
- E-3 style
- 1/2" NPT supply and delivery ports
- (2) 1/4" NPT auxiliary supply ports



- Direct replacement for Bendix 286171 & Midland KN22140 and KN22150
- E-6 style
- 3/8" NPT supply and delivery ports



### Spring Brake Valve (SR-1 Style)

- Direct replacement for Bendix 286364
- 1/4" NPT reservoir, control, supply and delivery ports
- 55 psi reservoir trip pressure
- Bracket mounted



Part #	Description
034038	Single circuit brake valve

Part #	Description
034039	Dual circuit brake valve

Part #	Description
034030	Spring brake valve



034040



034077

- E-7 Style
- Dual circuit valves
- 1/2" exhaust port with diaphragm
- Three mounting holes - firewall mounted
- O-rings included

### Trailer Spring Brake (SR-5 Style)

- Direct replacement for Bendix 065437
- 3/4" NPT reservoir mounting port
- 1/4" NPT service/spring brake reservoir, service, trailer supply and trailer service ports
- (4) 3/8" NPT delivery ports
- Anti-compounding



Part #	Side Ports	Rear Ports	Application	Replaces
034040	(2) 1/4" Supply	No threads	Ford	Bendix 284760
034077	(4) 1/4" Supply (4) 1/4" Delivery (Threaded)	1/8" Supply (2) 1/2" Supply (2) 1/2" Delivery	Navistar	Bendix 288383

### Trailer Spring Brake Valves (SR-2 and SR-4 Styles)



034031



034032



- SR-2 style valves
- 1/4" NPT service reservoir (2) and trailer supply ports
- (4) 3/8" NPT delivery ports
- 1/4" NPT trailer service port on Part No. 034031

- SR-4 style valves
- 1/4" NPT reservoir charging (2), trailer supply and trailer serviceports
- (4) 3/8" NPT delivery ports

Part #	Reservoir Port	Replaces
034031	1/2" MPT	Bendix 103061
034032*	3/4" MPT	Bendix 287376

Part #	Reservoir Port	Replaces
034033	3/4" MPT	Bendix 101112
034034	1/2" MPT	Bendix 101622

Part #	Description
034035	Trailer spring brake valve

\*Does NOT have trailer service port for anti-compound

## AIR BRAKE VALVES

### In-Line Quick Release Valves



032019

032020

- Speeds up release of trailer service brakes when installed on service side gladhand
- Speeds up application of trailer parking brakes when installed on emergency side gladhand
- Suitable for use on double or triple trailers
- Durable zinc die cast bodies
- Flow Rate: Forward - 9.0 SCFM at 2 psi; Exhaust - 8.0 SCFM at 2 psi
- 1/2" - 14 MPT with Vibraseal thread sealer one end, 1/2" - 14 FPT other end
- 1-1/2" diameter x 3-1/2" long

Part #	Description
032019	Mounts between tractor protection valve and air lines
032020	Mounts at tractor gladhand

### Quick Release / Double Check Valve (QR-1C Style)



- Direct replacement for Bendix 289714 & Midland KN32041
- 1/4" NPT supply and balance ports
- (2) 3/8" NPT delivery ports
- (2) 1 1/32" diameter mounting holes at 1-1/2" on center
- Supply and delivery differential is 1 psi max

Part #	Description
034012	Quick release valve

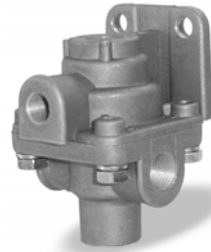
### Quick Release Valves (QR-1 Style)

- 3/8" NPT exhaust port
- (2) 1 1/32" mounting holes at 1-1/2" on center
- Cracking pressure of 1 psi



Part #	Delivery Ports	Supply Ports	Replaces
032015	3/8" NPT	3/8" NPT	Bendix 229859, 288251 & Midland KN32005
032018	3/8" NPT	1/2" NPT	Bendix 229860 & Midland KN32011
034078	1/4" NPT	3/8" NPT	Bendix 229813

### Limiting and Quick Release Valves (LQ-2 and LQ-4 Styles)



- Direct replacement for Bendix 229505
- LQ-2 style
- Limits front axle service brake application by 50% and serves as a quick release valve for that axle - commonly found on pre-121 (pre-1985) vehicles
- 3/8" NPT supply, delivery and exhaust ports
- 1/4" NPT control port
- 19/32" diameter mounting holes at 1-1/2" on center

Part #	Description
034084	Limiting and quick release valve

- Direct replacement for Bendix 289144
- LQ-4 style
- For limiting front axle pressure
- 3/8" NPT supply and delivery ports
- (2) 19/32" diameter mounting holes at 1-1/2" on center
- Nominal hold off pressure of 4 psi
- Nominal equalizing pressure of 60 psi



Part #	Description
034036	Limiting and quick release valve



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## AIR BRAKE VALVES

### Air Tractor Control Kits

- Kits add hand and foot control to trucks with pre-FMVSS 121 air brakes hauling an air brake trailer (for trucks with FMVSS 121 air brakes, consult the truck manufacturer)
- Hose assembly jumper lines and support springs included with kit (kit No. 131012 only)
- Hand control valve included (except for Part No. 131016). This normally closed valve has 1/4" FPT inlet/ outlet/exhaust ports and an 1/8" FPT pressure gauge port

(180 psi maximum supply pressure)  
- hand control valve also sold separately

- NOT FOR ABS APPLICATIONS



131012

Part #	Description
131012	Kit for tractor installations
131014	Kit for dump truck installations
131016	Kit for dump truck installations without hand valve
032051	Hand control valve

## AIR ACCESSORY VALVES

### Universal Fan Clutch Drive Solenoid Kit



Five year guarantee against failure under normal operating conditions!

- Nominal voltages: 12 VDC
- Working voltage: 11-16 VDC
- Maximum operating pressure: 150 psi
- Max exposure temperature: 200°F
- Mounting hole: 3/8"
- Ports: (3) 1/8" - 27 FPT
- Universal kit replaces existing solenoids found on Kysor, Bendix and Horton fan clutches
- Kit includes valve, wire harness with Weather-Pack sealed connectors, exhaust shield, in-line filter and butt connectors

Part #	Description
032192	Universal solenoid kit
032194*	Replacement solenoid
032190	Replacement in-line filter
032191	Replacement 1/8" NPT exhaust vent

\*Valve may also be used for shutter stat solenoid applications. Replaces Navistar numbers 450284C91 and 1692761C91 for this use

### Three-Way Solenoid

- Provides On/Off exhaust function
- Inlet port normally closed - for intermittent use only
- (2) 1/4" FPT ports
- 12 VDC
- 100 - 120 psi operating pressure
- 2-9/32" diameter mounting holes on 2-1/2" centers



Part #	Description
320051	Three-way solenoid

### Air Solenoid Valve

- Direct replacement for Neway 90054075 (normally open)
- 12 VDC, 10 watts
- Intermittent use only
- 100psi maximum operating pressure
- 1/4" threads



Part #	Description
034075	Air solenoid valve

NOTE: Always use in conjunction with a momentary contact switch (see Part No. 090202 on page E14)

## AIR ACCESSORY VALVES

### Power Take-off and Dump Pump Control Valve Kit



- Replaces Chelsea 328388-79X
- Kit includes combo control valve with 1/4" built-in push-to-connect fittings, in-line fuse holder with 9 amp fuse, cable, pressure protection valve 1/4" nylon tubing (50') and fittings-control valve assembly also sold separately

Part #	Description
032144	PTO and dump pump control valve kit
032142	Combo control valve (feathering valve)
034073	PTO cable
032086	Pressure protection valve

### Power Take-Off Air Shift Kit



- Power take-off kit controls add-on air-controlled accessories
- Kit includes control valve, indicator light, 1/4" nylon tubing (50') and fittings, cable, bracket and pressure protection valve. Control valve assembly, indicator light and cable sold separately

Part #	Description
034070	Power take-off air shift kit
034071	Air shift valve assembly
034072	Indicator light
034073	PTO cable
032086	Pressure protection valve

### Power Take-Off Four-Way Control Valve



- Replaces Chelsea 328865X
- Panel-mounted, three position valve
- 1/8" - 27 NPTF
- 150 psi maximum operating pressure
- Operating temperature range from -20° to +200°F

Part #	Description
032145	PTO four-way control valve assembly

### Power Take-Off Combo Control Valve with Shift Tower

- Combo valve controls PTO and dump pump operations
- 1/4" brass push-to-connect fittings included on valve assembly
- Shift tower measures 4-5/8" x 3-5/8" x 8" H overall with 2" access hole and mounting holes 4-1/4" on center



Part #	Description	Replaces
032143	PTO combo valve with shift tower	-
032142	Combo control valve (feathering valve)	Chelsea 329358X
032146	Control valve shift tower	Chelsea 329219X



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## AIR ACCESSORY VALVES

### In-Line Quick Release Valves

- Push-connect fittings mate easily with 1/4" nylon tubing for easy installation
- 150 psi maximum operating pressure
- On/Off faceplate Part No. 032039 fits air-electric and flipper valves Part Nos. 032232, 032233, 032234 and 032236 and installs using 10-24 x 1/4" screw
- Air-Electric Valves  
Technical Information:
  - » Switch Off Position: No air flow, electrical contacts open
  - » Switch On Position: Air flows through valve, electrical contacts closed
  - » Amperage: 5 amp resistive current load at 12 VDC
  - » Terminal Size: 1/4" blade
  - » Pressure Switch: Open below 10 psi, closed above 35 psi



Part #	Photo	Description	Toggle Style	Lever Position	Primary Vehicle Application
032225	A	Air-electric toggle valve	Paddle	-	Kenworth, Volvo
032227	B	Air-electric toggle valve	Blade	-	Mack
032228	C	Air-electric toggle valve	Bat	-	Peterbilt
032229	D	Air toggle valve	Paddle	-	Kenworth, Volvo
032231	E	Air toggle valve	Blade	-	Mack
032232	F	Air-electric flipper valve	-	Right off	Freightliner
032234	F	Air-electric flipper valve	-	Right off	Navistar
032235	F	Air-electric flipper valve	-	Right off	Navistar
032233	G	Air flipper valve	-	Right off	Freightliner
032236	G	Air flipper valve	-	Right off	Navistar

\*These are only primary listings-valves are universal and suitable for a variety of applications

### Transmission Selectors



Part #	Description
032400	Trans selector A4487
032401	Trans selector A4490
032402	Trans selector A4491

### Transmission Range



Part #	Description
032403	Range value A-6909
032404	Range value A-6913
032405	Range value A-6915
032406	Range Value A-6918

### Universal Three-Way Toggle Valve



- 1/8" NPT supply and delivery (2) ports
- Includes chrome-plated flip handle
- Faceplate sold separately - install using a 10-24 x 1/4" screw

Part #	Description
032037	Universal three-way toggle valve
032039	Faceplate - On/Off

## AIR ACCESSORY VALVES

### Universal Air Accessory Dash Valves

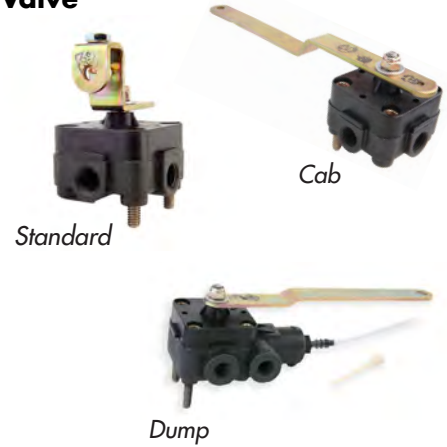


- Two position, three-way air valves
- Include DOT compliant (FMVSS 106) push-to-connect fittings for 1/4" tubing
- Built-in standard four pin electrical connector for backlit function
- Additional rear port used to easily jumper air lines between valves
- Fit standard 22 mm x 44 mm openings, easily replacing valves found on many current model trucks
- Operating Temperature: -10° to +160°F
- Rated Pressure: 150 psi maximum
- Rated Current Load: 1 amp at 14 VDC (max.)
- Electric Connector: Valve connector mates with Metri-Pack 150 Series connector Part No. 12045813 with female terminals (for reference only - not available from Velvac and not included)

Part #	Description
032247	Inter-axle differential lock dash valve
032248	Fifth wheel slide dash valve
032249	Air suspension dump dash valve
032250	Power take off dash valve
032253	Universal dash valve
032022	Inter-axle differential lock dash valve
032023	Differential lock dash valve

### Height Control Valves: Standard Leveling Valve, Cab Leveling Valve and a Rapid Dump Feature Valve

- Valves feature patent Shear-Seal® design technology
- Superior performance in high cycle and contaminated air conditions
- Precision machined metal sealing surface creates a zero leak\* seal
- Increased life expectancy and lower air consumption
- Direct replacement for many OE valve installations



Part #	Description	Ports	Replaces	Used with Vehicles
034101	Cab valve	1/4" NPT	WABCO S464 007 004-0 Barksdale KD2483	International cab, Peterbilt cab
034111	Standard chassis valve	1/4" NPT	WABCO S464 002 443-0 Barksdale KD2484 Midland KN 27000	International chassis
034112	Standard chassis valve	1/4" NPT	Hadley/Neway 90054007, Barksdale KD2485	Kenworth chassis
034113	Standard chassis valve	1/4" NPT	Delco King of the Road 12C-1 (KOR 5549705) & 12-6-2 (KOR 5549706), Barksdale KD2489	Volvo chassis
034114	Standard chassis valve	1/4" NPT	Hadley H00450CE Barksdale KD2482	Volvo / Mack chassis
034122	Dump valve	1/4" NPT	Hadley H00500RS Barksdale KD2486	International chassis
034123	Dump valve	1/4" NPT	WABCO 464 008 115-0 Barksdale KD2487	Volvo chassis
034124	Dump valve	1/4" NPT	International 2506169C91 Hadley HAD500NS, Barksdale KD2488	International chassis w/dump, Peterbilt chassis w/dump
034126	Dump valve	1/4" NPT	Haldex PR 90554950 & 90554945, Barksdale KD2490	Kenworth chassis w/dump, Volvo chassis
034137	Standard chassis valve	1/4" NPT	Barksdale KD2481, Volvo 85112638, Volvo 85108667, Volvo 85112623, Mack 99QK148M	Volvo / Mack chassis

NOTE: See photos on next page.  
\*Zero-leak is less than 4CC per minute

Shear-Seal® is a registered trademark of Barksdale Control Products



034137



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### Shear-Seal® Height Control Valve



034122



034123



034124



034112



034101



034126



034113



034114



034111

### Shear-Seal® Height Control Valve Linkage and Hardware

#### Adjustable Linkage

- Adjusts for 8-3/4" to 14-1/2"
- 1/4" diameter mounting bolts
- Zinc plated steel rods
- Elastomer ends



Adjustable linkage



034135



034136



034134

Part #	Description
034130	Adjustable Linkage - adjustment range 6.9-9.6 inches
034131	Adjustable Linkage - adjustment range 9.8-11.5 inches
034132	Adjustable Linkage - adjustment range 10.9-13.6 inches
034133	Adjustable Linkage - adjustment range 12.8-19.0 inches
034134	Linkage Hardware - 5/16-18 thread
034135	Linkage Hardware - 1/4-20 thread
034136	Linkage Hardware - 8 mm course thread



## AIR ACCESSORY VALVES

### Height Control Valves



032139



034065  
Delayed response\*\*



034064  
Immediate response



032140



032141  
Immediate response\*

Part #	Ports	Description	Replaces
032139	1/8" NPT	Includes linkage and brackets	Hadley H600
032140	1/4" NPT	Valve only	Midland/Haldex & Neway 90554241
032141*	1/4" NPT	Includes built-in dump valve	Midland/Haldex & Neway 90554271
034064	1/4" NPT	Includes linkage kit	Midland KN27000
034065**	1/8" NPT	Includes fitting package	Neway 90054007

\* Normally open dump feature; needs air pressure to dump from air spring

\*\*7-12 seconds prior to releasing air to air bags; also known as self-leveling

### Air Horn Actuator Valves

- Direct replacements for air horn valves found on many trucks
- Replace similar valves from both Grover and Hadley
- Molded mounting bracket and push-connect fittings provide easy installation



Part #	Photo	Description	Ports	Vehicle Application
032240	A	Single outlet	(3) 1/4"	Kenworth
032241	A	Dual outlet	(3) 1/4"	Kenworth
032242	B	Dual outlet	(3) 1/4", (1) 3/8"	Freightliner
032243	B	Single outlet	(3) 1/4", (1) 3/8"	Freightliner
032244	C	Medium-duty	(2) 3/8"	Navistar
032245	D	Conventional cab	(2) 3/8"	Navistar
032246	E	Cab over	(2) 3/8"	Navistar

### Rapid Dump Air Suspension Valve



- Replaces Humphrey 250A N/O valves
- Pilot operated
- Dual delivery design allows for in-line plumbing of air spring lines and eliminates need for tee fittings
- (4) 1/8" FPT ports
- Mounts on either right or left frame rail using 1/4" mounting holes

Part #	Description
032195	Rapid dump air suspension valve



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## AIR ACCESSORY VALVES

### Pressure Protection Valves

- Nominally closed
- Nominal closing pressure 65-75 psi
- (2) 1/4" FPT ports
- 150 psi maximum operating pressure



- Designed for convenient in-tank mounting on tanks with dual outlet ports
- All valves except Part No. 032221 include Vibraseal sealant on mounting thread for easy installation

Part #	Description
032086	Pressure protection valve

- Direct replacement for Bendix 286500
- 1/4" NPT supply and delivery ports
- 85 psi nominal closing pressure
- Non-adjustable



PR-4 Style

Part #	Description
034037	Pressure protection valve

### Three-Way Pilot Valve

- Direct replacement for Neway 90054079
- For Neway suspension systems
- 1/4" NPT supply / delivery / exhaust ports



Part #	Description
034074	Three-way pilot valve

Part #	Inlet Port (NPTM)	Outlet Ports (NPTF)	Nominal Opening Pressure (psi)	Nominal Closing Pressure (psi)	Primary Vehicle Application
032216	3/8"	3/8"	55	45	Freightliner
032217	3/8"	3/8"	85	67	Ford
032218	1/2"	3/8"	55	45	Freightliner
032219	1/2"	3/8"	85	67	Freightliner
032220	1/2"	1/4"	65	55	Peterbilt
032221	1/2"	1/4"	100 (max)	70 (min)	Kenworth
032222	1/4" Hex nipple	1/4"	100 (max)	70 (min)	Mack*

NOTE These are only primary listings-valves are universal and suitable for a variety of applications

\* Replaces Mack number 20QE2326A

### Height and Lumbar Control Seat Valves



- Valves control air ride truck seats and lumbar supports
- Available in push/pull and paddle type configurations
- Spring-loaded, three-way function

- Electro-pneumatic combination valve designed to operate air seats using an electric air compressor
- Designed to replace valves on seats by major manufacturers such as Bostrom, National and Sears

Part #	Photo	Description	Ports	Primary Seat Application
032110	A	End and side ported with removable chrome knob	(2) 1/8" FPT	Various
032205	B	End ported with removable chrome knob	(2) 1/8" FPT	Various
032206	C	Electro-pneumatic with removable black knob & (2) 1/4" blade terminals	(1) 1/8" FPT	Various
032201	D	Paddle type	(2) 3/16" Barbs	Bostrom

NOTE These are only primary listings-valves are universal and suitable for a variety of applications

## PRESSURE SWITCHES AND INDICATORS

### Air Pressure Gauge

- 1-1/2" diameter dial
- Accommodates a 1/8" FPT port
- Pressure range of 0 - 160 psi



Part #	Description
035065	Air pressure gauge

### Brake Light Switch (SL-4 Style)

- Direct replacement for Bendix 228600
- 1/4" NPT supply
- Actuates at 3-5 psi



Part #	Description
036036	Stop light switch

### Low Pressure Indicators (LP-3 Style)

- 1/4" NPT supply
- Automatic pressure release at 60 +/- 6 psi



Part #	Description	Replaces
034041	Single terminal	Bendix 279416
034042	Double terminal	Bendix 228750

NOTE: Use in conjunction with either warning buzzer Part No. 036043 or warning light Part No. 036049

### Pressure Regulator Valve

- A compact, high quality in-line pressure regulator with gauge and bracket kit, rated to 125 psi with 1/4" NPT ports



Part #	Description
320149	Pressure regulator valve

### Low Air Warning Buzzer

- 12 volt buzzer
- 9/32" diameter mounting holes



Part #	Description
036043	Low air warning buzzer

NOTE: Use in conjunction with a low pressure switch, Part No. 034041 or 034042

### Low Air Pressure Warning Light

- 12 volt red light
- Uses #57, 1895 or 293 bulb
- Mounts through 3/4" hole
- Complete with low air face plates



Part #	Description
036049	Low air pressure warning light assembly
002063	Replacement red pilot light
036045	Replacement faceplate

NOTE: Use in conjunction with a low pressure switch Part Nos. 0304041, 034042 or 175043

### Pressure Regulator Valve

- Direct replacement for Bendix 217380 & Midland KN31070
- Non-exhaust type regulator
- 3/8" NPTF delivery and supply ports
- 10-125 psi adjustable pressure gauge



Part #	Description
032060	Pressure regulator valve



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## AIR TANK ACCESSORIES

### Air Dryer Replacement Cartridges



- All include seal rings

Part #	Description	Replaces
034046	Fits AD-SP type air dryers	Bendix 109994, Bosch 1-487-434-901 & WABCO 432-410-020-2, 432-420-220-2 (also fits System Saver 1200)
034047	Fits AD-4 air dryers	Bendix 103981, 104358
034048	Fits AD-9 air dryers	Bendix 107794, 107796


### AD-9 Air Dryer Rebuild Purge Kits



- Installation instructions and all necessary lubricants included
- 12 and 24 VDC heater/thermostat kits also sold separately. These include the heater/thermostat assembly, seal rings and mounting hardware

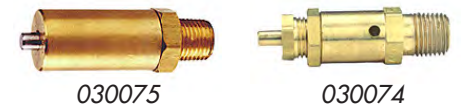
Part #	Description	Replaces
034087	Purge valve kit w/ purge piston assembly	Bendix 5005037, 5004336, 5004337, 107798
034088	Purge assembly kit - 12V (includes aluminum purge housing, purge valve kit and 12V heater/thermostat kit)	Bendix 800405
034089	Purge assembly kit - 24 Volt (includes aluminum purge housing, purge valve kit and 24V heater/thermostat kit)	Bendix 5004338
034092	Heater/thermostat kit only - 12V	Bendix 109578

### Air Dryer Wiring Harness

- Direct replacement for Bendix 109869, 109871, 298948 
- Fits both 12 and 24 volt AD-9, AD-SP, AD-IP and System Saver 1200 units
- 22" leads

Part #	Description
034091	Air dryer wiring harness

### Safety Valves (ST-3 and ST-4 Styles)



- ST-3 Style
- Automatic pressure release at 150 psi
- 1/4" NPT
- Adjustable valve preset to 125 psi by factory; adjustable from 41-149 psi

Part #	Description	Replaces
030075	Safety valve	Bendix 284142 & Midland KN31200, KN31400
030074	Adjustable safety valve	Bendix 205105

- ST-4 Style 
- 1/4" NPT 034090
- Automatic pressure release at 150 psi
- Low profile valve fits AD-9, AD-SP, AD-IP, and System Saver 1200 air dryers

Part #	Description	Replaces
034090	Safety valve	Bendix 800350

## AIR TANK ACCESSORIES

### Single Check Valves



034044



320014



320001



034045



320003

Part #	Description	Replaces
034044	1/4" Threads	Bendix 229603, 800375
320014	3/8" Threads	Bendix 227870, 800373 & Midland KN23010
320001	1/2" Threads	Bendix 227717, 227788, 227871, 800372 & Midland KN23000
034045	1/2" Female threads	Bendix 800370
320003	3/4" Threads	Midland KN23040

### Air Tank Drain Cocks



036003



036019,  
036020



036021

- 1/4" MPT (except 036020)

Part #	Description
036003	Lever handle drain cock
036019	Back seating drain cock - 1/4" MPT
036020	Back seating drain cock - 3/8" MPT
036021	Wing handle drain cock

### Drain Pull Valves



- Attached vinyl coated aircraft cable
- .075" diameter cable
- 1/4" MPT
- 120 psi maximum pressure

Part #	Description
032135	Valve with 3' cable
032058	Valve with 4' cable
032082	Valve with 5' cable
032160	Valve with 5' cable uncrimped on free end - includes one extra sleeve
032081	Valve without cable
032170	100' Bulk cable
032083	Replacement 5' cable & sleeves
032185	Replacement cable sleeve

### Automatic Reservoir Drain Valve (DV-2 Style)



Non-heated

- Direct replacement for Bendix 281923 & Midland KN24000
- All ports 3/8" NPT

Part #	Description
034043	Automatic reservoir drain valve

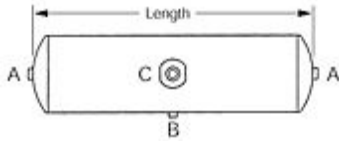
**NOTE: Part numbers listed in RED are NEW!**



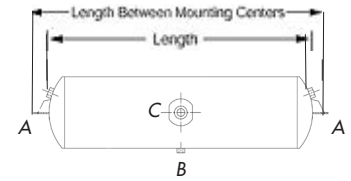
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## AIR TANKS, BRAKE CHAMBERS AND DIAPHRAGMS

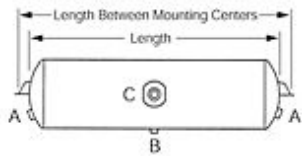
### Air Tanks



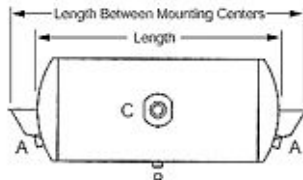
Type 1 - Bracket Mounted



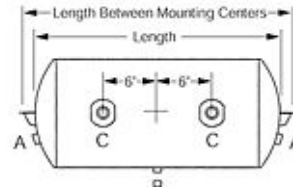
Type 2 - Flange Mounted



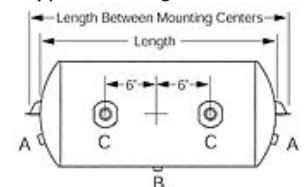
Type 3 - Flange Mounted



Type 4 - Flange Mounted



Type 5 - Flange Mounted



Type 6 - Flange Mounted

- All tanks feature dual main ports except Part No 035103
- All steel construction
- All tanks are water tested prior to shipping
- Dipped tanks are rust resistant and primer sealed
- Internally corrosion resistant
- Tanks meet SAE J10 requirements

### Air Tank Check Valve Kit

- Provides a second dry air reservoir
- Kit includes 1425 cu. in. air tank, mounting brackets, one-way check valve, reducer bushing and 1/4" drain plug

Part #	Description
131045	Air tank check valve kit

### Air Tank Mounting Brackets



- For tanks up to 8-3/16" in diameter

Part #	Description
501051	Air tank mounting brackets

Part #	Tank Type	Diameter	Length	A	B	C	Cu. in. Capacity	Mounting Centers
035103*	1	8"	29-1/4"	1/2"	1/4"	3/4"	1425	-
035101	2	8"	29-1/4"	3/8"	1/4"	3/4"	1425	32"
035102	3	8"	29-1/4"	3/8"	1/4"	3/4"	1425	32"
035106	3	9-1/2"	22-1/2"	3/8"	1/4"	3/4"	1488	27-1/2"
035104	4	9-1/2"	22-1/2"	3/8"	1/4"	3/4"	1488	27-1/2"
035105	4	9-1/2"	22-1/2"	1/2"	1/4"	3/4"	1488	27-1/2"
035108	3	12"	27"	3/8"	1/4"	3/4"	2850	29-1/2"
035107**	5	12"	27"	3/8"	1/4"	3/4"	2850	29-1/2"
035109**	6	12"	27"	3/8"	1/4"	3/4"	2850	29-1/2"

\* This tank can also be used for vacuum applications - also see mounting brackets Part No. 501051

\*\* Dual main ports on same side of tank-ports are 12" apart on center

### Air Brake Chambers



- Direct replacement for all popular service brake chambers
- Fully threaded shaft for maximum adjustability
- Mounting hardware, clevis and cotter pin included

Part #	Dia.	Type	Working Stroke
030013	5.785"	12	1-3/4"
030015	6.5"	16	2-1/4"
030017	7"	20	2-1/4"
030019	7.5"	24	2-1/2"
030021	8.25"	30	2-1/2"

### Air Brake Diaphragm



- Gas and oil resistant
- Rubber/neoprene blend
- Fabric reinforced for extra strength and long life

Part #	Diameter	Type
031021	6"	9
031023	5.5"	12
031025	6"	16
031027	6.5"	20
031031	7"	24
031033	8"	30
031035	9"	36

## AIR CYLINDER CONTROL VALVES

- Anodized aluminum black bodies
- Nitrile seals for long cycle life
- High impact knobs
- Balanced spool design
- Operating temperature range from -40° F to +180°F
- Stainless steel hardware
- Normal operating pressure 100 psi

### Four-Way Push/Pull Valves



- Aluminum shaft with delrin detent ring provides easy ID of valve position
- Threaded aluminum mounting boss for 1" diameter through hole mounting (nuts included)
- (3) 9/32" dia. body mounting holes
- (5) 1/4" - 18 FPT ports
- Normal operating pressure 100 psi
- Includes two faceplates:
  - » Pull to open/Push to close
  - » Pull to raise/Push to lower

### Applications for valves:

- Two position valve operates any double acting air cylinder
- Three position valve operates systems where full air or vacuum pressure must be isolated

Part #	Description
320175	2-position valve
320176	3-pos, holding type valve
320125	Replacement knob, faceplates and nuts

### Viper™ Four-Way Push/Pull



- One piece stainless steel shaft
- Can be mounted using (2) 3/16" diameter body mounting holes or through a 1/2" diameter through hole
- (3) 1/8" NPT ports, (2) 10-32 exhaust ports
- Includes faceplate

Part #	Description
320177	"Viper" four-way valve

Viper™ is a trademark of Velvac, Inc.

### Four-Way Rotary Handle Valve



- Three position valve
- (3) 1/4" - 18 FPT ports
- 1/4" NPT threaded exhaust ports
- (2) 1/4" diameter body mounting holes at 1-15/16" on center
- Operating pressure to 150 psi
- Includes solid one-piece handle and two faceplates (Raise/Lower and Open/Close)

Part #	Description
320179	Rotary handle valve
321034	Raise/Lower faceplate
030092	1/4" Cone filter

### Four-Way Push/Pull Compact Design Valve

- The compact design fits into today's small dash board designs
- Pneumatic valve is designed to control the operations of a typical air cylinder
- 150 psi max air pressure
- 0.4 Cv air flow
- Aluminum body and end caps
- 40 micron filtration

### Four-Way Electronic Solenoid Valve



- Operates any single acting or pressure double acting air cylinder
- Actuated with a std On/Off switch
- Air-piloted assist
- (5) 1/4" -18 FPT port
- (3) 9/32" dia valve body mtg holes
- Normal operating pressure 100psi
- Exhaust cone filters included

Part #	Description
320178	4-way solenoid
320132	Electrical coil
320133	Solenoid mounting nut
030092	1/4" Cone filter
030084	1/8" Cone filter

### Four-Way Mini Electronic Solenoid Valve



- Compact design - 4" overall length
- Air-piloted assist
- 1/8" supply and delivery ports
- 10-32 exhaust ports
- 12VDC coil with low 2 watt draw
- Normal operation pressure
- 100 psi

Part #	Description
320180	4-way mini solenoid
030093	10-32 Cone filter

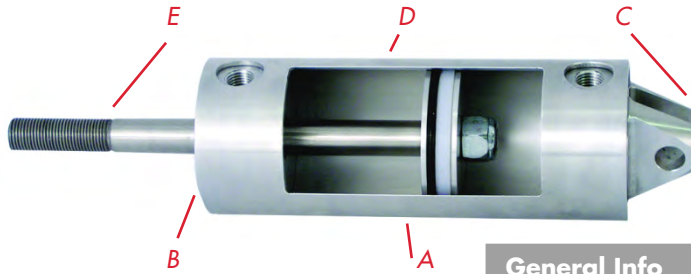


Part #	Description	Parker #
320187	Four-way valve	410939002



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## AIR CYLINDERS



Backed by a 3 year warranty

Velvac's heavy-duty Enforcer™ series of air cylinders are built tough for long life and made from some of the strongest materials available today!

- Machined from 6061 series aluminum, 303 stainless steel, with Nitrile "O" rings and a UHMW polyethylene wear band
- Cycle tested into the millions. The solid construction means the cylinders will keep on working even in extreme conditions where other air cylinders fail. These cylinders are available in push/pull, solenoid operated and spring return versions

General Info	Feature	Type
Cylinder Construction	A	Aluminum cylinder tubing with a 16 RMS finish, lock ring construction secures end caps to tube
Front Cover	B	Solid aluminum with oilight bronze bushing, Delrin seal and 1/4" NPT port
Rear Cover	C	Solid aluminum with mounting hole for 1/2" clevis pin and 1/4" NPT port
Piston Cup	D	Solid aluminum with Nitrile "O" ring rated at -40° to +185°F and UHMW polyethylene wear band
Piston Rod	E	5/8" diameter 303 series stainless steel with 5/8" - 18 thread
Temp Rating	-	-40° to +185°F
Pressure Rating	-	10 psi minimum to 150 psi maximum Standard operating pressure 100 psi

### 2-1/2" Air Cylinder



Part #	Cylinder Type	Stroke	Retracted Length	Extended Length	Thrust at 100 psi	Draw at 100 psi
100204	Push/Pull	4"	9.89"	13.89"	491 lb	460 lb
100226	Spring Return	6"	13.75"	19.75"	251 lb	460 lb
100206	Push/Pull	6"	11.89"	17.89"	491 lb	460 lb
100208	Push/Pull	8"	13.89"	21.89"	491 lb	460 lb

### 3-1/2" Air Cylinder

Part #	Cylinder Type	Stroke	Retracted Length	Extended Length	Thrust at 100 psi	Draw at 100 psi
100308	Push/Pull	8.68"	15.60"	24.28"	962 lb	930 lb
100310	Bullet Type	10"	16.92"	26.95"	962 lb	930 lb

## AIR CYLINDER CONTROL VALVES

### Cone Filters



Part #	Description
030093	10-32 Cone filter
030084	1/8" Cone filter
030092	1/4" Cone filter
030094	3/8" Cone filter

NOTE: Air cylinders and tailgate kits are designed to operate the locking linkage on dump bodies and are NOT to be used as a means of mechanically holding the tailgate shut. Custom kits are available - contact Velvac for more information

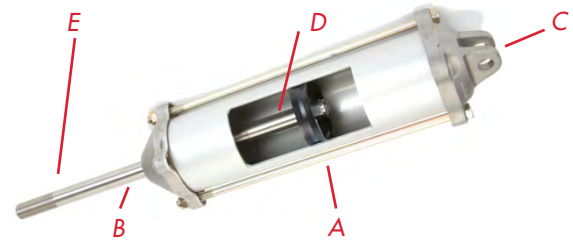
Enforcer™ is a trademark of Velvac, Inc.

## AIR CYLINDERS



Velvac's standard series of air cylinders are built for durability with a reputation for quality and affordability!

- Used in a wide variety of applications and conditions and can take the daily abuse associated with typical tailgate applications
- Backed with a 1 year warranty and 100% tested
- Available in push/pull, solenoid operated and spring return versions



General Info	Feature	Feature/Benefit
Cylinder Construction	A	Smooth cylinder grade aluminum tubing with a 32 RMS finish, tie rod construction secures end caps to tube
Front Cover	B	Die cast aluminum with Nitrile dirt wiper and pressure seal and oil impregnated bronze bushing and 1/4" NPT port
Rear Cover	C	Die cast aluminum with mounting hole for 1/2" clevis pin and 1/4" NPT port
Piston Cup	D	Emralon-coated, single piece, molded piston cup
Piston Rod	E	5/8" diameter 300 series stainless steel with 5/8" - 18 thread
Temp Rating	-	-20° to +185°F
Pressure Rating	-	10 psi minimum to 120 psi maximum Standard operating pressure 100 psi

### 2-1/2" Air Cylinder

At 100 psi:

- Thrust: 483 lb
- Draw: 452 lb

Part #	Cylinder Type	Stroke	Retracted Length	Extended Length
100122	Push/Pull	4"	9.89"	13.89"
100125	Spring Return Norm. Ext.	4"	10.62"	14.62"
100123	Push/Pull	6"	11.89"	17.89"
100126	Spring Return Norm. Ext.	6"	13.89"	19.89"
100124	Push/Pull	8"	13.89"	21.89"

### 3-1/2" Air Cylinder

At 100 psi:

- Thrust: 962 lb
- Draw 918 lb

\*Kit contains air cylinder Part No. 100132 and extended clevis kit #019051. Use this kit when replacing previous cylinder Part No. 101028

Part #	Cylinder Type	Stroke	Retracted Length	Extended Length
100131	Push/Pull	6.68"	13.60"	20.28"
100132	Push/Pull	8.68"	15.60"	24.28"
100136	Push/Pull	8.68"	18.43"	27.12"
100137*	Push/Pull	8.68"	15.60"	24.28"

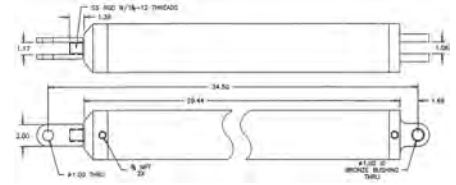
NOTE: Air cylinders and tailgate kits are designed to operate the locking linkage on dump bodies and are NOT to be used as a

means of mechanically holding the tailgate shut. For tailgate kits see page A33. Custom kits are also available - contact Velvac for information



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Backed by a 3 year warranty

### High Lift Cylinder

General Information		Type
Cylinder Tube	Aluminum cylinder tubing with a 16 RMS finish	
Front Cover	Solid aluminum with oil tight bronze brushing, Delrin seal and 3/8" NPT port	
Rear Cover	Solid aluminum with mounting hole for 1" clevis pin and 3/8" NPT port	
Piston Cup	Solid aluminum with Nitrile "O" ring rated at -40° to +185°F and UHMW polyethylene wear band	
Temp Rating	-40° to +185°F	
Pressure Rating	Standard operating pressure 100 psi, 10 psi minimum to 150 psi maximum	

Part #	Bore	Cylinder Type	Stroke	Retracted Length	Extended Length	Thrust at 100 psi	Draw at 100 psi
100424	4"	Push/Pull	24"	34.5"	58.5"	1,275 lb	1,158 lb

### Tailgate Cylinders

- Velvac's Enforcer series of tailgate cylinders is the best choice for any tailgate
- Machined from 6061 series aluminum, 5/8" diameter 303 stainless steel shaft with 5/8" - 18 threads, Nitrile "O" rings and a UHMW polyethylene wear band
- Direct replacements to

Haldex and MGM

- Standard operating pressure 100 psi, 90 psi minimum to 150 psi maximum



Part #	Bore	Cylinder Type	Stroke	Retracted Length	Extended Length	Thrust at 100 psi	Draw at 100 psi
100603	6"	Spring return	3"	16.18"	19.18"	400 lb	2,400 lb
100613	6"	Spring return	4.38"	18.62"	23"	1,417 lb	1,400 lb
100614	-	*Bracket kit for 100613	-	-	-	-	-
100615	-	*Spacer kit for 100613	-	-	-	-	-

NOTE: Extended/retracted lengths are measured from the tip of the shaft to the end of the cylinder

\*The bracket kit is used for new MGM installations, while the spacer kit is used when replacing the existing MGM cylinder

## AIR CYLINDER TAILGATE LOCK KITS

### Velvac Original



Part #	Cylinder Diameter/Stroke
100022	2-1/2" x 8" Kit, contents as shown
100028	2-1/2" x 8" Kit, contents as shown, plus 50' of 3/8" black nylon tubing and clips
101002	3-1/2" x 8" Kit, contents as shown, plus 50' of 3/8" black nylon tubing and clips and extended clevis kit Part No. 019051 (see FITTINGS & HARDWARE section)

Part #	Cylinder Diameter/Stroke
101054	2-1/2" x 8" Kit, contents as shown
101058	3-1/2" x 8" Kit, contents as shown

Part #	Cylinder Diameter/Stroke
101055	2-1/2" x 8" Kit, contents as shown
101059	3-1/2" x 8" Kit, contents as shown

Part #	Cylinder Diameter/Stroke
100144-7	3-1/2" x 8" Kit, contents as shown - designed to fit Ox bodies

Part #	Cylinder Diameter/Stroke
100036	2-1/2" x 6" Kit
100037	2-1/2" x 8" Kit
101003	3-1/2" x 8" Kit with extended clevis, Part No. 019051
101004	3-1/2" x 6" Kit
101078	3-1/2" x 8" Kit with clevis Part No. 019049

- Solenoid operated cylinder kits allow the operator to electronically unlock tailgate without leaving the cab
- All kits include clevis and pins, electrical switch part No. 090177, cylinder with four-way solenoid attached

### FIFTH WHEEL AIR CYLINDERS



- Cast aluminum front and rear cover with 1/4" FTP port
- 100 psi operating pressure
- Mounting hole for 17/32" clevis, front and rear
- Gold anodized tube for corrosion resistance

Part #	Bore	Stroke	Replaces	Retracted Length	Extended Length
100101	2-1/2"	6-3/4"	Holland XA-2524-R	12-5/8"	19-13/32"
100102	3-1/2"	2"	Holland XA-2524-R-13-1	7-21/32"	9-21/32"



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## LIFT AXLE AND SUSPENSION VALVES

### Manual Push/Pull Valves

- High flow dual pressure air valves for lift axles, suspension dump systems and tailgate control
- Solid aluminum construction
- Nitrile seals for long cycle life
- High impact knobs with face plates
- Balanced stainless steel and aluminum spool design
- Operating temperature range from -40° to +180°F
- Stainless steel hardware
- Normal operating pressure 100 psi



320188



320184



320192



320146

Part #	Description	Valve Type	Ports	Air Flow	Applications	Schematic
320188	"Mini" valve w/ built in exhaust filter	3 Way	1/4" NPT	1.5 Cv	Single acting air cylinders, lift axles or suspension systems	
320184	Valve w/ remote 1/4" NPT exhaust air pilot reset option	3 Way	3/8" NPT	2.2 Cv	Single acting air cylinders, lift axles or suspension systems	
320192	3 position valve with center exhaust feature	4 Way	1/4" NPT	1.5 Cv	Single or double acting air cylinders	
320146	2 position with soft 4 way detent and 1/8" NPT remote air pilot reset option	4 Way	3/8" NPT	2.2 Cv	Single acting air cylinders, lift axles or suspension systems	

### Lift Axle Control Valve

- Designed for the heavy duty truck and trailer industry
- Includes two industry-proven brake-style relay valves integrated into a single unit for compactness and ease of installation
- Excellent flow capability for rapid axle actuation
- Optional control solenoid for electric control operating system

Part #	Description
034139	Lift axle control valve

**NOTE:**  
Part numbers listed in RED are NEW!



### Silicone Lubricant

- Specially formulated silicone lubricant protects and extends the life of air valves and air brake valves. Helps repair the drying effects caused by alcohol and antifreeze
- Light oil can be added directly into the air lines and the heavy oil can be added directly into the valves.



Part #	Description
320170	Light weight oil - 4 oz bottle
320171	Light weight oil - 5 pack of 4 oz bottles
320172	Heavy weight oil - 4 oz bottle
320173	Heavy weight oil - 5 pack of 4 oz bottles

#### Helpful hint:

To prevent damage to seals, premature air product failures,

### Brass Electric Coil Air Converter

- Solenoid override adapter mounts on the coil and allows the conversion of the electrical signal into an air signal
- 1/8" NPT ports
- Solid brass construction



Part #	Description
320148	Brass electric coil air converter

and possible warranty claim rejection, many OE manufacturers instruct customers to avoid the use of petroleum based products and de-icing agents in their air systems. It is recommended to change the air dryer filters regularly and use silicone valve oils to help repair seal damage and extend the life of air valves

## LIFT AXLE AND SUSPENSION VALVES

### Solenoid Valves

- Solenoid valves allow the driver to operate single or double acting cylinders, lift axles or suspension dump systems electronically
- Constructed with the same materials as Velvac's air accessory valves
- Normal operating pressure 100 psi
- The solenoid valves have a 12-volt power consumption coil that uses only 4.8 watts



Part #	Description	Valve Type	Ports	Air Flow	Applications	Schematic
320185	Spring return valve with 1/8" NPT external pilot	4 Way	3/8" NPT	2.2 Cv	Lift axles or suspension systems	
320181	Spring return valve with internal pilot assist	4 Way	3/8" NPT	2.2 Cv	Lift axles or suspension systems	
320186	Spring return valve with internal manual override	4 Way	3/8" NPT	2.2 Cv	Lift axles	
320189	Spring return valve with air operated external manual override	4 Way	3/8" NPT	2.2 Cv	Lift axles	
320190	Push-pull valve with solenoid air pilot return	4 Way	3/8" NPT	2.2 Cv	Single or double acting air cylinders and lift axles	

### Air-Pilot Valves



Part #	Description	Valve Type	Ports	Air Flow	Applications	Schematic
320191	Air pilot spring return with 1/4" NPT air pilot supply support	3 Way	3/8" NPT	2.2 Cv	Suspension systems	
320183	Shuttle air pilot spring return valve	4 Way	3/8" NPT	2.2 Cv	Lift axles	
320182	Air pilot spring return valve with 1/8" external pilot port	4 Way	3/8" NPT	2.2 Cv	Lift axles	



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**OUR PARTS PUT YOU IN THE PASSING LANE**

# **ELECTRICAL**

**The only source you need.**

From our ISO and ABS coiled cables to plugs, fuses, sockets, terminals and switches, Velvac offers a full line of electrical components to keep drivers doing what they do best - driving.

- **Cable and plug assemblies**
- **Fuses, sockets, terminals and connectors**
- **Battery lugs and terminals**
- **And more**



## CABLE AND PLUG ASSEMBLIES

### Six-Way Coiled Cable Assembly



- 12' working length
- Durable black outer jacket resists abrasion and has excellent coil memory
- Heavy-duty zinc die cast plugs with spring guards included

Part #	Working length	Description
590061	12'	6/14 Gauge
050029	12'	Replacement cable

### Two Pole Coiled Cable Assemblies



- Rated at 200 amps for lift gate applications at 12 VDC
- 4 gauge cable
- Internally grounded
- Withstand temperatures of -85° to +185°F
- Durable black polyethylene outer jacket resists abrasions and chemical damage while offering excellent coil retention
- Heavy-duty zinc die cast plugs with springs guards included

### Single Pole Coiled Cable Assemblies



#### Tailgate Lift Power Cable

For applications that require direct electrical power to trailer lift gates; BLUE JACKETED

- Rated at 265 amps intermittent service (30 seconds on/50 seconds off)
- Heavy-duty zinc die cast plugs with spring guards included
- 2 gauge cable

Part #	Description
590135	12' Tailgate lift power cable assembly
590136	15' Tailgate lift power cable assembly

#### Tailgate Lift

##### Battery Charging Cable

For applications where cables are used to charge trailer lift gate batteries; GREEN JACKETED, heavy-duty zinc die cast plugs with spring guards included

- 200 amp max for intermittent lift gate applications at 12 VDC
- 110 amp max for continuous applications at 12 VDC
- External ground option
- 4 gauge cable

Part #	Description
590263	12' Tailgate lift battery charging 4 gauge cable assembly
590264	15' Tailgate lift battery charging 4 gauge cable assembly

Part #	Description
590171	12' Two pole coiled cable assembly
590172	15' Two pole coiled cable assembly
590181	12' Vertical two pole coiled cable assembly
590182	15' Vertical two pole coiled cable assembly

**NOTE: Part numbers listed in RED are NEW!**



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## SEVEN-WAY COILED CABLE ASSEMBLIES



### Seven-Way ISO Coiled Cable Assemblies

- Used in tractor/trailer systems requiring ISO 3731 style connectors; ISO pin prevents connections with non-ISO sockets
- 1/8, 2/10, 4/12 gauge cable
- Durable yellow outer jacket resists abrasion, provides excellent coil retention and offers quick identification of auxiliary circuit lines
- Heavy-duty zinc die cast plugs with spring guards included

Part #	Working Length	Description
590251	12'	2-12" Leads
590252	15'	2-12" Leads
590253	15'	1-48" Lead 1-12" Lead
590254	15'	1-72" Lead 1-12" Lead



### Seven-Way ABS Coiled Cable Assemblies

- Assemblies include heavy gauge wire commonly used to power trailer and dolly ABS
- 1/8, 2/10, 4/12 gauge cable
- Durable green outer jacket resists abrasion, provides excellent coil retention and offers quick identification of ABS lines
- Heavy-duty zinc die cast plugs with spring guards included
- Cable meets SAE J2394 June 1998 Type F requirements

Part #	Working Length	Description
590160	12'	2-12" Leads
590161	15'	2-12" Leads
590163	15'	1-40" Lead 1-12" Lead
590080	20'	2-12" Leads
590081	20'	1-12" Lead 1-40" Lead

NOTE: See page E8 for ABS color code chart



### Seven-Way Coiled Cable Assemblies

- Durable black outer jacket resists abrasion and provides excellent coil retention
- Heavy-duty zinc die cast plugs with spring guards included
- Operating temperature range of -55° to +185°F

Part #	Working Length	Description
590154	12'	6/12, 1/10 Gauge (2-12" Leads)
590156	12'	6/14, 1/12 Gauge (2-12" Leads)
590155	15'	6/12, 1/10 Gauge (2-12" Leads)
590157	15'	6/14, 1/12 Gauge (2-12" Leads)
590159	15'	6/12, 1/10 Gauge (1-72" Lead, 1-12" Lead)



- ISO assemblies used in tractor/trailer systems requiring ISO 3731 style connectors

Part #	Working Length	Description
590255	12'	1/8, 2/10, 4/12 Gauge
590256	15'	1/8, 2/10, 4/12 Gauge

### Seven-Way ABS & ISO Straight Cable Assemblies

- ABS assemblies include heavy gauge wire commonly used to power trailer and dolly ABS - ABS cable meets SAE J2394 June 1998 Type F requirements

Part #	Working Length	Description
590165	12'	1/8, 2/10, 4/12 Gauge
590166	15'	1/8, 2/10, 4/12 Gauge
590179	20'	1/8, 2/10, 4/12 Gauge

- Heavy-duty zinc die cast plugs with spring guards included

Part #	Working Length	Description
590180	5'	6/12, 1/10 Gauge
590036	8'	6/12, 1/10 Gauge
590046	12'	6/12, 1/10 Gauge
590177	10'	6/12, 1/10 Gauge
590178	15'	6/12, 1/10 Gauge

## ELECTRICAL PLUGS

ISO plug



T-grip

Plastic plug with weather guard



### Seven-Way Plugs

- Heavy-duty nickel-plated zinc die cast housings on all except plastic plug, which has an unbreakable nylon housing
- Easy to remove interiors make for quick replacements
- ATA color-coded wire terminals
- Internal clamp holds cable securely in place
- Standard seven-way plugs meet ATA and SAE J560 requirements; ISO plugs meet ISO 3731: 1997 requirements

### T-Grip Seven-Way Plugs

Part #	Description
593057	Plug with spring guard
593101	ISO plug with spring guard
593111	Plastic plug with weather guard
593019	Replacement interior for 593057, 593111
593060	Replacement spring guard

### Single Grip Seven-Way Plugs

Part #	Description
593022	Plug with spring guard
593024	Plug without spring guard
593019	Replacement interior
593029	Replacement spring guard



591161



591105

### Single Pole Plugs

- Used to provide power to heavy draw auxiliary trailer equipment
- Heavy-duty zinc die cast housings
- Power and ground terminals hold up to 1/0 gauge wire

Part #	Description
591161	T-grip plug with spring guard
591105	Single grip plug without spring guard



### Seven-Way Blade Type Plug

- Primarily used in RV applications
- Constructed of molded PVC for impact resistance

Part #	Description
054001	Seven-way blade type plug

NOTE: See page E6 for seven-way blade type socket



593116



593123

### Two Pole Plug

- 200 amp, 4 gauge wire capacity
- Heavy-duty zinc die cast housings
- Internal ground
- Spring guard supports and protects cable

Part #	Description
593116	T-grip plug with spring guard
593123	Vertical T-grip plug w/ guard

Plug with spring guard



Plug without spring guard



### Four-Way and Six Way Plugs

- Heavy-duty zinc die cast housings
- Plug locking system works with socket door to ensure proper hookup and prevent unintentional disconnections
- Spring guard 055049 supports and protects cable

Part #	Description
055059	Four-way plug with spring guard
055054	Four-way plug without spring guard
055049	Six-way plug with spring guard
055050	Six-way plug without spring guard
055051	Replacement interior for six-way plug



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## PLUG ADAPTERS AND ACCESSORIES

Female Pins



591009

Male Pins



591010



591116

### Truck Tractor to Trailer Adapters

- Heavy-duty zinc die cast housing on part nos. 591009 and 591010; also includes split brass pins and terminals and a spring clip to lock adapter and plug together
- Part no. 591116 constructed of molded PVC for impact resistance

Part #	Description
591009	Seven-way pin to six-way adapter
591010	Six-way round to seven-way adapter
591116	Seven-way round to four-way flat adapter



057118



057119



057120



057121

### Continuity Testers

- LED indicators quickly identify complete circuits by glowing red; no light means problem circuit
- Fits standard seven-way blade type, four-way flat connectors and seven-way round
- Constructed of molded PVC for impact resistance
- Internally grounded

Part #	Description
057118	Seven-way plug circuit tester
057119	Seven-way socket circuit tester
057120	Seven-way blade circuit tester
057121	Four-way flat circuit tester



### Four-Way Flat Set

- Set: 48" lead (female) side and 12" lead (male) side
- Single: 48" leads
- Constructed of molded PVC for impact resistance
- ATA color-coded:  
White: Ground  
Green: Right turn and brake lights  
Yellow: Left turn and brake lights  
Brown: Tail lights

Part #	Description
090226*	Four-way flat - female
090227*	Four-way flat - male
	*Together these replace Velvac part no. 054003
054003	Four-way flat set



### Seven-Way Plug Cleaner

- Stainless steel brushes quickly clean electrical contacts for improved conductivity
- Durable plastic body

Part #	Description
055034	Seven-way plug cleaner

**NOTE: Part numbers listed in RED are NEW!**

## ELECTRICAL SOCKETS AND ACCESSORIES

### Seven-Way Circuit Breaker Sockets and Adapter Boxes

- Non-corrosive, reinforced nylon housing for added durability
- Designed for #8 ring terminals (see page E27)
- ATA color-coded contacts (see page E8 for ATA color code chart)
- Solid brass split pins are zinc-plated for corrosion resistance

- Each socket includes automatic reset circuit breakers with positive snap open/snap closed action to eliminate arcing (unless noted)
- Mounting holes are 4-1/2" on center and include steel bushings for added housing protection
- Adhesive-backed mounting gasket included
- Circuit breaker sockets meet SAE J560 requirements



- Durable zinc die cast housings
- Solid brass split pin socket offers replaceable circuit breakers for circuit protection of trailer wiring systems
- Slanted door front for plug support
- Replaceable thermoplastic base plate with ATA color codes for quick identification
- Each socket includes automatic reset circuit breakers with positive snap open/snap closed action to eliminate arcing

Part #	Description
055037	Socket with 20 amp circuit breakers
055038	Socket with 30 amp circuit breakers
055040	Socket without circuit breakers
055039	Replacement cover kit (includes cover, shaft retainer, steel hinge pin and stainless steel spring)
055041*	Deep adapter box with bottom entry
055045*	Deep adapter box with back entry



Deep adapter box with back entry



Deep adapter box with bottom entry

\*5/16" - 18" UNC cover plate studs and 2" inside depth

Part #	Description
593052	Socket with 20 amp circuit breakers
593054	Socket with 30 amp circuit breakers

### Single and Two Pole Sockets

- Durable zinc die cast housings
- Power and ground terminals on single pole socket hold up to 1/0 gauge wire
- 200 amp, 4 gauge wire capacity on two pole socket
- Two pole socket has internal ground
- Single pole socket may be soldered or crimped

- Mounting holes 3" on center
- Rear housing 1-3/4" O.D.

Part #	Description
591113	Single pole socket
593121	Two pole socket
593124	Vertical two pole socket
591090	Replacement interior for single pole socket



593113



593124



593121

### Seven-Way Blade Type Socket

- Screw-type socket primarily used in RV applications
- 6-24 VDC
- Mounting holes are 2-1/4" on center
- Constructed of molded PVC for impact resistance

Part #	Description
054002	Seven-way blade type socket
090216	Mounting bracket

NOTE: See page E4 for seven-way blade type plug



Optional mounting bracket



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## ELECTRICAL SOCKETS AND ACCESSORIES

Two hole socket with screw terminals



Two hole socket with push terminals



Optional terminal protector boot



593083



Optional terminal protector boot



### ISO Seven-Way Socket

- Used in tractor/trailer systems requiring ISO 3731 style connectors - ISO socket prevents connections with non-ISO plugs
- ISO color-coded yellow, non-corrosive, reinforced nylon housing
- Wires secured by set screws
- Mounting holes are 2-15/16" on center

Part #	Description
593106	ISO socket
054017	Terminal protector boot

### Seven-Way Sockets

- Non-corrosive, reinforced nylon housing for added durability
- Screw type socket with split pins designed for #8 ring terminals (see page E27)
- Push type socket with solid pins designed for 180° snap receptacles (see Part No. 056079 on page E26)
- Mounting holes are 3" on center
- Screw type socket includes screws and washers
- Gasket included on each socket
- Sockets meet SAE J560 requirements
- Protective rubber boot seals out moisture and contaminants - sold separately

Part #	Description
055043	Two hole socket with screw terminals
055062	Two hole socket with push terminals
055063	Rubber terminal protector boot

- Durable zinc die cast housings
- ABS plastic interior with ATA color codes for quick identification
- Solid brass pins
- Wires attached by set screw retainers
- Slanted door front for plug support
- Tongue and groove door design protects socket interior from dirt and moisture
- Mounting holes are 2-15/16" on center
- 1-13/16" rear housing length
- Terminal protector boot keeps terminals free from moisture and contaminants - sold separately
- Sockets meet SAE J560 requirements (SAE applies only to solid pins)

Part #	Description
593083	Socket with solid pins
593084	Socket with split pins
054017	Terminal protector boot
591022	Replacement solid pin interior
591019	Replacement cover kit (includes door, hinge pin & spring)



Optional terminal protector boot

### Four-Way and Six-Way Sockets

- Durable zinc die cast housings
- Solid brass split pins
- Locking system on door works with plug to ensure proper hook-up and prevent unintentional disconnections
- Optional protector boot keeps terminals free of moisture and contaminants - sold separately

Part #	Description
055052	Six-way socket
055056	Four-way socket
090217	Mounting bracket
090218	Terminal protector boot
055053	Replacement six-way interior

**NOTE: Part numbers listed in RED are NEW!**

## ELECTRICAL CABLE



### Battery and Starter Cable

- Durable thermoplastic outer jacket keeps cable flexible at low temperatures and resists abrasion, ozone, oil and road salts
- Soft annealed stranded copper
- Cable meets SAE J1127 Type SGT requirements

#### Red Jacketed

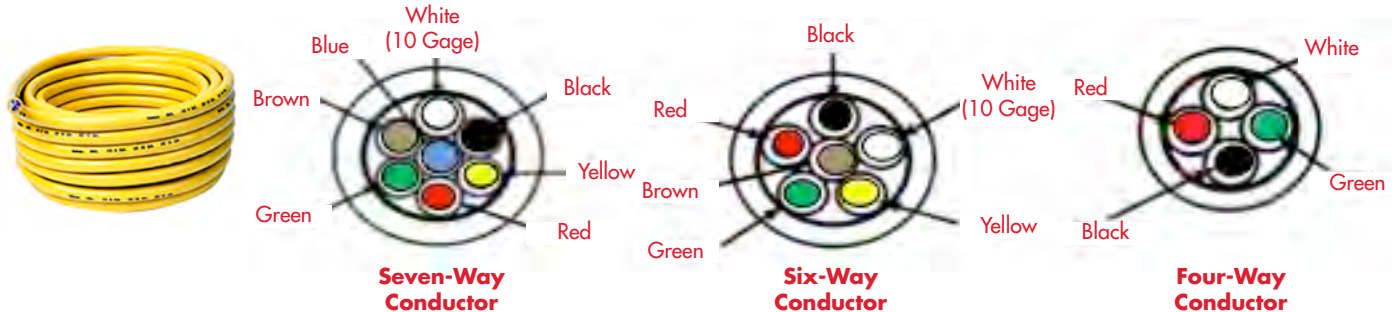
Part #	Coil Length	Wire Gauge
058033	25'	6
058033-7	100'	6
058035	25'	4
058035-7	100'	4
058037	25'	2
058037-7	100'	2
058039	25'	1
058039-7	100'	1
058241	25'	1/0
058241-7	100'	1/0
058243	25'	2/0
058243-7	100'	2/0
058245	25'	3/0
058247	25'	4/0

#### Black Jacketed

Part #	Coil Length	Wire Gauge
058233	25'	6
058233-7	100'	6
058235	25'	4
058235-7	100'	4
058237	25'	2
058237-7	100'	2
058239	25'	1
058239-7	100'	1
058041	25'	1/0
058041-7	100'	1/0
058043	25'	2/0
058043-7	100'	2/0
058045	25'	3/0
058047	25'	4/0

NOTE: Battery terminals and lugs sold separately (see pages E10-12)

### Multiple Conductor Cable



- ABS cable meets SAE J2394 June 1998 Type F requirements

#### ADA Color Code Chart

White	Ground return to towing vehicle
Black	ICC required marker and clearance light
Yellow	Left-hand directional signal
Red	Stoplights
Green	Right-hand directional signal
Brown	Tall lamps, 3-bar marker lamps
Blue	Auxiliary

Part #	Jacket Color	Coil Length	Conductor	Gauge
050019	Black	100'	Seven	6/12, 1/10
050019-7	Black	500'	Seven	6/12, 1/10
050042	Black	100'	Seven	14
050042-7	Black	500'	Seven	14
050037	Green (ABS)	100'	Seven	1/8, 2/10, 4/12
050051	Yellow (ISO)	50'	Seven	1/8, 2/10, 4/12
050052	Yellow (ISO)	100'	Seven	1/8, 2/10, 4/12
050007	Black	100'	Six	14
050007-7	Black	500'	Six	14
050001	Black	100'	Four	14
050001-7	Black	500'	Four	14



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## BATTERY CABLE



### Battery-to-Battery Crossover Cable

- 2/0 gauge wire
- Molded lead terminals and black neoprene outer jacket

Part #	Description
058212	12" Battery crossover cable



### Ground Strap

- 4 gauge wire
- Molded zinc-plated steel lugs and tin-plated copper stranding
- 7/16" diameter bolt hole

Part #	Description
058116	Ground strap (12" - 14")



### Switch-to-Starter Cable

- 4 gauge wire
- Molded zinc-plated steel lugs and red PVC outer jacket

Part #	Description
058115	18" Switch-to-starter cable



### Battery Cable

- 2/0 gauge wire
- Molded copper lug and lead terminal
- Black PVC outer jacket

Part #	Description
058117	12" Battery cable



### Battery Booster Cables

- Copper stranded, 4 gauge wire
- Rated at 400 amps
- Black PVC outer jacket
- Red and black vinyl coated clamps feature solid copper contacts and heavy springs for positive clamping

Part #	Description
058152	16' Battery booster cable



### 800A Booster Cable

These heavy duty battery cables are rated at 800 amps and are designed to handle jump starting heavy duty equipment

- Solid copper parrot clamps for increased conductivity
- Tangle proof design
- Braided copper wire remains flexible even in subzero temperatures
- Includes strong plastic storage container to protect cables from damage when not in use

Part #	Description
058151	800A Booster cable

### Stud Top Battery Cable

- 2/0 gauge wire
- Molded tin-plated copper lugs and black PVC outer jacket

Part #	Color	Description
058118	Black	8" Stud top battery cable
058128	Red	8" Stud top battery cable
058119	Black	12" Stud top battery cable
058129	Red	12" Stud top battery cable



## BATTERY LUGS

- Fully annealed electrolytic copper construction provides excellent conductivity
- Wire gauge identification marked on lug barrels
- Heat-shrink tubing should be used over all battery terminal connections (see pages E33-E35)

### Standard Battery Lugs

- Unique flared barrel design eliminates wire strand hang-ups
- Unplated
- Crimpable



Part #	Wire Gauge	Stud Size
056033	6	1/4"
058073	6	5/16"
058074	6	3/8"
056034	4	1/4"
058076	4	5/16"
058077	4	3/8"
058078	4	1/2"
058079	2	5/16"
056035	2	3/8"
058081	1	5/16"
056036	1	3/8"

Part #	Wire Gauge	Stud Size
058082	1	1/2"
058083	1/0	5/16"
056037	1/0	3/8"
056038	1/0	1/2"
058084	2/0	5/16"
056039	2/0	3/8"
056040	2/0	1/2"
058086	3/0	3/8"
056041	3/0	1/2"
058088	4/0	3/8"
056042	4/0	1/2"

### Heavy-Duty Battery Lugs

- Tin-plated for corrosion resistance
- Crimpable



Part #	Wire Gauge	Stud Size
058325	1/0	3/8"
058326	1/0	1/2"
058327	2/0	3/8"
058328	2/0	1/2"

Part #	Wire Gauge	Stud Size
058329	3/0	3/8"
058330	3/0	1/2"
058331	4/0	3/8"
058332	4/0	1/2"

### Heavy-Duty Flared Lug Maintenance Kit



- Kit includes 50 lugs in ten varieties ranging from 6 to 4/0 gauge with stud sized of 1/4", 3/8" and 1/2"
- Packaged in a durable plastic case with product information shown on inside label for easy identification

Part #	Description
057002	Heavy-duty flared lug maintenance kit

Part #	Qty	Part #	Qty
056033	6	056038	4
056034	6	056039	4
056035	6	056040	4
056036	6	056041	4
056037	6	056042	4

### Flared Butt Connectors

- Seamless construction
- Tin-plated for corrosion resistance



Part #	Wire Gauge
058020	1
058021	1/0
058022	2/0
058023	3/0
058024	4/0



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## BATTERY TERMINALS

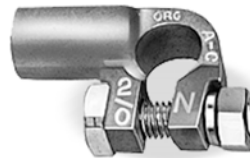
### Crimpable or Solderable Battery Terminals

- One-piece, cast copper construction
- Lead-plated for corrosion resistance
- Cable size clearly designated on terminals for correct size selection
- Polarity shown on terminals to avoid mixing positive and negative connections
- Tool die and letter codes permanently marked on terminals to simplify installation with other manufacturers' tools
- Uniform wall thickness assures high reliability when connector is crimped on cable
- Long barrels for added strength and vibration resistance
- Heat-shrink tubing should be used over all battery terminal connections (See page E33)



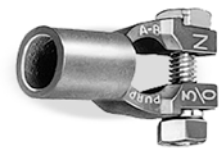
**Right Angle Barrel Terminals**

Part #	Wire Gauge	Polarity
057056	2/0	Positive
057057	2/0	Negative
058055	3/0	Positive
058056	3/0	Negative
058011	Replacement nut and bolt	



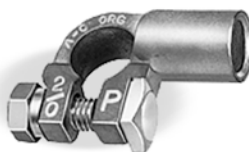
**Right Elbow Terminals**

Part #	Wire Gauge	Polarity
058052	1/0	Positive
058051	1/0	Negative
058005	2/0	Positive
058006	2/0	Negative
058009	3/0	Positive
058010	3/0	Negative
058011	Replacement nut and bolt	



**Straight Barrel Terminals**

Part #	Wire Gauge	Polarity
058050	4	Universal
057050	1	Positive
057051	1	Negative
058001	1/0	Positive
058002	1/0	Negative
057052	2/0	Positive
057053	2/0	Negative
057054	3/0	Positive
057055	3/0	Negative
058057	4/0	Positive
058058	4/0	Negative
058011	Replacement nut and bolt	



**Left Elbow Terminals**

Part #	Wire Gauge	Polarity
058054	1/0	Positive
058053	1/0	Negative
058003	2/0	Positive
058004	2/0	Negative
058007	3/0	Positive
058008	3/0	Negative
058011	Replacement nut and bolt	



**Marine Terminal**

- 5/16" post

Part #	Description
058019	Marine terminal

**Helpful hint:**

Most Velvac terminals are colorcoded according to wire gauge specifications:

- 4 - Green    1/0 - Black
- 2 - Pink    2/0 - Orange
- 1 - Pink    3/0 - Purple
- 4/0 - Yellow

## BATTERY TERMINALS

### ECO-MAX Battery Terminals

- ECO-MAX is the first environmentally friendly, 100% copper battery terminal
- The post top design is manufactured with the highest quality C11000 ETP (Electrolytic Tough Pitch) copper and is completely lead free
- RoHS compliant and therefore exempt from CA Proposition 65 requirements
- C11000 ETP copper battery terminals provide the highest conductivity rating compared to any competing copper design
- Maximum electrical conductivity is 101% IACS at 68°F. Typical designs fall at 20% and 32% IACS at 68°F
- Tin plated for corrosion resistance
- Provided with nut and bolt installed
- Has a beveled barrel for facilitating cable insertion
- Color-coded for polarity identification and color and die coded for crimp settings
- Exceeds SAE Standard J-1811



ECO-Max right elbow



ECO-Max left elbow



ECO-Max flag



ECO-Max straight

Part #	Cable Gauge	Gage ID Color	Polarity	Terminal Style
058416	4	Gray	Negative	Straight
058417	4	Gray	Positive	Straight
058418	4	Gray	Universal	Straight
058419	1-2	Pink	Negative	Straight
058420	1-2	Pink	Positive	Straight
058421	1/0	Black	Negative	Straight
058422	1/0	Black	Positive	Straight
058423	2/0	Orange	Negative	Straight
058424	2/0	Orange	Positive	Straight
058425	3/0	Purple	Negative	Straight
058426	3/0	Purple	Positive	Straight
058427	4/0	Yellow	Negative	Straight
058428	4/0	Yellow	Positive	Straight
058445	1/0	Black	Negative	Flag
058446	1/0	Black	Positive	Flag
058447	2/0	Orange	Negative	Flag
058448	2/0	Orange	Positive	Flag
058449	3/0	Purple	Negative	Flag
058450	3/0	Purple	Positive	Flag
058451	4/0	Yellow	Negative	Flag
058452	4/0	Yellow	Positive	Flag
058437	1/0	Black	Negative	Left elbow
058438	1/0	Black	Positive	Left elbow
058439	2/0	Orange	Negative	Left elbow
058440	2/0	Orange	Positive	Left elbow
058441	3/0	Purple	Negative	Left elbow
058442	3/0	Purple	Positive	Left elbow
058443	4/0	Yellow	Negative	Left elbow
058444	4/0	Yellow	Positive	Left elbow
058429	1/0	Black	Negative	Right elbow
058430	1/0	Black	Positive	Right elbow
058431	2/0	Orange	Negative	Right elbow
058432	2/0	Orange	Positive	Right elbow
058433	3/0	Purple	Negative	Right elbow
058434	3/0	Purple	Positive	Right elbow
058435	4/0	Yellow	Negative	Right elbow
058436	4/0	Yellow	Positive	Right elbow



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## BATTERY TERMINALS

### Battery Stud Nut

- Stainless steel construction



Part #	Description
058068	3/8" Battery stud nut

### Heavy-Duty Terminal

- For 1" 4/0 gauge wire



Part #	Description
058016	Heavy duty terminal

### Crimpable or Solderable Terminals for Stud Top Batteries



Base terminal

Part #	Wire Gauge	Polarity
058090	1/0	Universal
058091	2/0	Universal
058092	3/0	Universal
058093	4/0	Universal



Flag terminal

Part #	Wire Gauge	Polarity
058251	1/0	Universal
058252	2/0	Universal
058253	3/0	Universal
058254	4/0	Universal

### Medium-Duty Terminal

- For 6 to 2 gauge wire



Part #	Description
058012	Medium-duty terminal

### Three-Way Battery Terminals

- For 1 to 2/0 gauge wire
- Lead construction with zinc-plated steel bolts and nuts
- Positive and negative terminals included



Part #	Description
058071	Three-way battery terminals

### OEM Battery Bolt

- Recessed groove permits attachment of battery charger or jumper cables
- Zinc-plated steel construction
- 3/8" - 16" UNC
- 1-3/16" long



Part #	Description
058296	OEM battery bolt



### Battery Post and Terminal Cleaner

Part #	Description
058046	Battery post and terminal cleaner

### Side Post Terminal

- For 6 to 2 gauge wire



Part #	Description
058013	Side post terminal

### Stud Mount To-Post Mount Conversion Terminals

- All lead construction
- Both positive and negative posts included



Part #	Description
058017	Stud mount-to-post mount conversion terminals

### Protective Battery Washers

- Washers seal out acid fumes protecting terminals from corrosion
- Packaged in convenient plastic screw top jars



Part #	Description
058094	Protective battery washers - red
058095	Protective battery washers - black

## SWITCHES AND SOLENOIDS



### Indicator Lights

- Chrome housing and nylon base
- LED's rated for 15mA at 12 VDC
- 100,000 hours estimated bulb life expectancy
- Temperature rating up to +185°F (85°C)
- 20 AWG lead wires
- 7/16" diameter recommended mounting hole

Part #	Color
090213	Red
090214	Amber
090215	Green



### Wiper Control Switch

- Operating temperature: -20° to +160°F
- Washer motor: 6 amps max. current draw
- Nominal voltage: 12 VDC (9 VDC min., 16VDC max.)
- Terminal configuration: 8 pin amp connector-mates with amp connector 770579-1 and 171639-1 socket terminals (not included and not available from Velvac)
- Integrates multi-speed wiper and washer functions into a single dashboard device
- Backlit for easy identification
- Fits standard 22 mm x 44 mm opening

Part #	Description
090120	Wiper control switch



### Toggle Accessories

- Protect toggle switches from moisture, dust and dirt
- UV-resistant, black silicon construction
- Built-in hex nut base screws on to most Velvac toggle switches
- Rated for -40° to +350°F (+180°C)

Part #	Description
090210	Full boot
090211	Half boot



### License / Utility Lights

- 12 VDC
- Weather-proof gasket
- 31" wire lead with .250" male disconnect
- 89 bulb
- Fits 1-1/4" mounting hole

Part #	Description
090173	Twist-in license / utility light

- Fits GM/GMC trucks with step bumper
- 12 VDC
- 7-7/8" wire lead with protective boot where wire attaches to light and self-grounding single post adapter
- 67 bulb
- Mounting holes approx. 2-11/16" on center



Part #	Description
090174	Bumper mount license / utility light

- Rugged, spring-loaded design provides protection against accident actuation
- Mounting hole accepts all standard Velvac toggles with 15/32" mounting stems



Part #	Description
090212	Safety cover

### Battery Disconnect Switch

- Two position: on/off
- Continuous rating 180 amps (max)
- Momentary rating 1000 amps (max)
- Momentary use only: 15 sec. on/5 min. off
- Heavy gauge, plated steel casing
- Die cast lever
- 3/4" diameter mounting stem
- UL approved for 6 to 36 VDC



090104



090233, 090234

Part #	Description
090104*	Battery disconnect switch SPST
090233	Battery disconnect switch DPST
090234	Battery disconnect switch DPST w/ anti-rotation indexing post

\*Not UL approved

### Push Button Switch

- Rated for 50 amps at 12VDC
- 5/8" - 32 UNS mounting bushing for panels up to 1/2" thick
- Push for momentary-on action
- Die cast with silver/copper contacts and two screw terminals
- Dust and moisture resistant
- Boot nut included



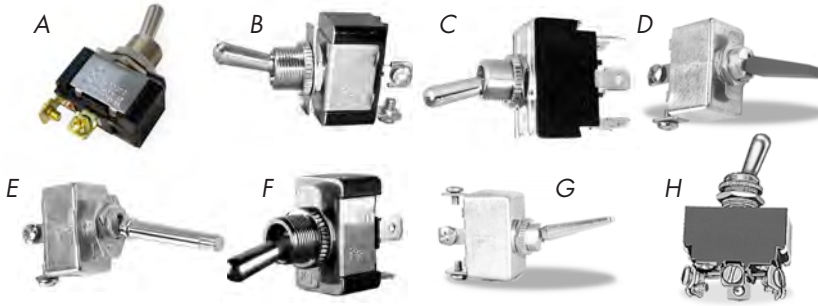
Part #	Description
090190	Momentary push button switch



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## SWITCHES AND SOLENOIDS

### Heavy Duty Toggle Switches



• Frame and support constructed from steel with zinc chromate, brass terminals

• Neoprene-sealed toggles are moisture and dust resistant

- Fully assembled with locating ring/tongue nut (and On/Off faceplate on single pole switches only)
- 1/2" diameter recommended mounting hole- all toggles must be installed with provided hex nut behind panel to prevent damage during installation

Photo	Part #	Poles	Amp	VDC	Circuitry	Terminals	Miscellaneous
Single Pole							
B	090176	SPST	21A	14	On / Off	(2) 0.250" Flat blade	-
A	090177	SPST	21A	14	On / Off	(2) Screw	-
B	090199	SPDT	21A	14	On / Off / On	(3) 0.250" Flat blade	-
A	090200	SPDT	21A	14	On / Off / On	(3) Screw	-
A	090201	SPDT	21A	14	(On) / Off / (On)	(3) Screw	-
A	090202	SPDT	21A	14	On / Off / (On)	(3) Screw	-
F	090191	SPST	30A	12	On / Off	(3) 0.250" Flat blade	Red LED handle****
F	090192	SPST	30A	12	On / Off	(3) 0.250" Flat blade	Green LED handle****
F	090193	SPST	30A	12	On / Off	(3) 0.250" Flat blade	Blue LED handle****
D	090186	SPST	50A	12	On / Off	(2) Screw	Black handle**
D	090187	SPST	50A	12	On / Off	(2) Screw	Red handle**
D	090188	SPST	50A	12	On / Off	(2) Screw	Chrome handle**
E	090189	SPST	50A	6/12/24	On / Off	(2) Screw	1-5/8" Chrome handle
G	090184	SPDT	50A	6/12/24	On / Off / On	(3) Screw	Chrome plated***
-	090040	SPDT	50A	6-24	On / On	(3) Screw	
-	090043	SPDT	50A	6-24	(On) / Off / (On)	(3) Screw	
Double Pole							
A	090203	DPST	21A	14	On / Off	(4) Screw	
C	090204	DPST	21A	14	On / Off	(4) 0.250" Flat blade	
H	090048	DPDT	21A	14	On / On	(6) Screw	
C	090205	DPDT	21A	14	On / On	(6) 0.250" Flat blade	
C	090206	DPDT	21A	14	On / Off / On	(6) 0.250" Flat blade	
A	090208	DPDT	21A	14	(On) / Off / (On)	(6) Screw	
C	090209	DPDT	21A	14	(On) / Off / (On)	(6) 0.250" Flat blade	
"O" Ring Sealed							
A	090179	SPST	21A	14	On / Off	(2) Screw	
A	090194	SPST	21A	14	(On) / Off	(2) Screw	
A	090196	SPDT	21A	14	On / On	(3) Screw	
A	090197	SPDT	21A	14	On / Off / On	(3) Screw	
B	090198	SPDT	21A	14	On / Off / On	(3) 0.250" Flat blade	
A	090207	DPDT	21A	14	On / Off / On	(6) Screw	

( ) indicates MOMENTARY ACTION

\*\* Die cast housing with silver-plated contacts, heavy copper terminals, stems measure 15/32" dia. X 15/32" long

\*\*\* Paddle type handle

\*\*\*\*Black toggle handles tipped with LED, min draw requirements for LED is 20 mA at 12 VDC

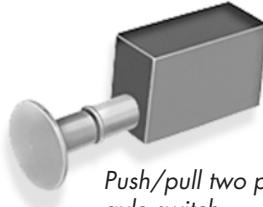
## SWITCHES AND SOLENOIDS

### Two-Speed Axle Switch and Automatic Terminal Block Switch

- Terminal block switch used in conjunction with axle switch to control two-speed electric axle shift
- Axle switch has red knob and uses (3) .156" female snap plugs (see page E25)



Terminal block switch



Push/pull two position axle switch

Part #	Description
090078	Two-speed axle switch
090079	Automatic terminal block switch



090225



090085

### Three Wire Connector

- Use as a flasher socket or any other three wire application (see page E19 for flashers)
- 18 gauge 12" leads

Part #	Description
090225	Three wire connector
090085	Three wire socket

### Dimmer Switches and Socket Assemblies



#### Application

- Chrysler floor mounted (1841895, 1881938, 2097628, 2291202, CH-2437)  
Year: 1959-83
- Dodge Trucks  
Year: 1959-79
- AMC (3156124, 3160926)  
Year: 1959-83

Part #	Description
090073	Dimmer switch
090083	Dimmer switch socket assembly



#### Application

- All Ford floor mounted  
Year: 1959-83 (COTF-130A024A; COTZ-13A024A, SW-263)

Part #	Description
090081	Dimmer switch
090083	Dimmer switch socket assembly



#### Application

- Vehicles without auto dimmer
- All GM floor mounted (1997028, 1997037, 3841892, D808)  
Year: 1961-83
- All Jeep floor mounted (5461816)  
Year: 1974-82

Part #	Description
090080	Dimmer switch
090082	Dimmer switch socket assembly

### Universal Solenoids

- Designed to operate a minimum of 50,000 cycles
- 125 amps at 12 VDC
- Continuous voltage
- SPST, normally Off, one circuit Off/On
- 5/16" side studs, #10 top stud/s
- Both include hardware

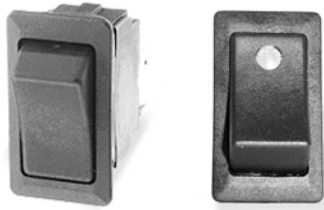
Part #	Description
090054	Three stud universal solenoid
090056	Four stud universal solenoid



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## SWITCHES AND SOLENOIDS

### Full Size Rocker Switches (Standard)



Standard

Lighted

- 21 amps at 14 VDC
- .830" x 1.450" recommended mounting hole
- Universal, snap-in design allows for easy installation
- Moisture and dust resistant
- Packaging for all new switches displays easily on pegboards or wire display rack (see Retail section)

Part #	Poles	Circuitry	Terminals
090109	SPST	On / Off	(2) .250" Flat blade
090150	SPST	(On) / Off	(2) .250" Flat blade
090147	SPST	On / (Off)	(2) Screw
090153	SPDT	On / (On)	(3) Screw
090111	DPST	On / Off	(4) .250" Flat blade
090149	DPST	On / (Off)	(4) Screw
090136	DPDT	On / On	(6) .250" Flat blade
090110	DPDT	On / Off / On	(6) .250" Flat blade
090158	DPDT	On / Off / (On)	(6) .250" Flat blade

( ) indicates MOMENTARY ACTION

### Accessories

Part #	Description
090219	End bracket
090220	Middle bracket
090221	Single bracket
090222	Panel plug



Accessories

### Full Size Rocker Switches (Lighted)

Part #	Poles	Circuitry	Terminals	Light Color
090123	SPST	On / Off	(3) Screw	Red
090124	SPST	On / Off	(3) Screw	Green
090125	SPST	On / Off	(3) Screw	Amber
090128	SPST	On / Off	(3) .250" Flat blade	Red

### On / Off Round Rocker Switch

- Single pole switches rated for 10 amps at 12 VDC
- 12 VDC illumination voltage
- Snap-in mounting design for easy installation in .79" diameter mounting hole
- (3) .187" flat blade terminals
- Two positions (SPST) with two .187" silver-plated brass blade terminals
- On/Off designation permanently etched on rocker switch
- Snap-in mounting design for easy installation in .79" diameter mounting hole

Part #	Poles	Light Color
090167	SPST	Red
090168	SPST	Amber
090169	SPST	Green

Part #	Description
090166	Round rocker switch with On/Off markings



090166

## SWITCHES AND SOLENOIDS



Keys included

### Universal Ignition Switch

- Single throw ignition
- 6 to 24 VDC
- 3/4" diameter mounting stem with two terminals

Part #	Description
090076	Universal ignition switch

### Push / Pull Switches

- Rated for 15 amps at 12 VDC, 25 amps at 6 VDC
- Heavy-duty, two position (SPST) push/pull switch with two brass screw terminals
- Brass and chrome construction
- 3-1/8" overall length x 7/8" wide
- Mounting stem measures 3/8" in diameter and 1-1/4" long
- Accommodates 1" panel with stainless steel springs

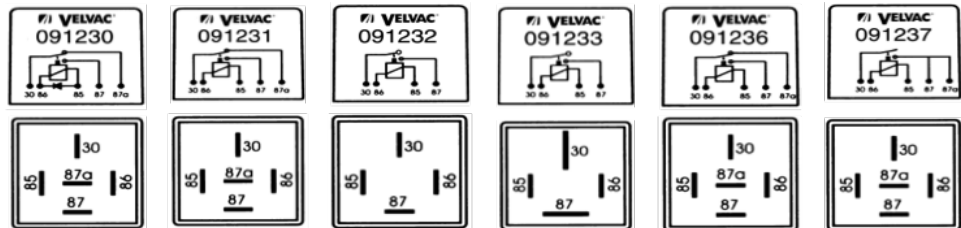
Part #	Description
090181	Push / pull switch



- Rated for 75 amps at 6 to 28 VDC
- Heavy-duty, two position (SPST) push/pull switch with two brass screw terminals
- Chrome-plated metal knob
- Mounting stem measures 15/32" in diameter and 5/8" long

Part #	Description
090180	Push / pull switch

## RELAYS



### Heavy-Duty Relay Kit

- Ideal for powering accessories with high voltage draws such as fog lights, power windows and fans
- Help ensure maximum power available to accessories and lights
- Kit includes heavy-duty relay, switch, switch mounting plate, 20' of 14 gauge wire and terminals

Part #	Description	Voltage	Amp	Terminals	Mounting Tab
091230	Relay with diode	12	40	5	No
Application for 091230: Diode eliminates voltage spikes that can occur when the relay is shut off; it can be used to run up to 30 amps continuously					
091231	Relay	12	40	5	Yes
091232	Relay	12	40	4	Yes
Application for 091232: Used to run up to 30 amps continuously					
091236	Relay	24	20	5	Yes
091237	Dual relay	12	40	5	Yes
Application for 091237: Controls two separate 20 amp accessories; also used as a single 40 amp relay					
091233	Heavy-duty relay	12	70	4	Yes
Application for 091233: Ideal for controlling larger devices; can run up to 50 amps continuously					
091235	Heavy-duty relay kit	12	70	4	Yes
In addition to standard package of one, all relays may also be ordered in bulk shop packs of 25 by adding a -7 to the part number shown					



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## SIGNAL FLASHERS

### Electro-Mechanical and Electronic Flashers

- Designed and tested to perform in excess of one million cycles
- Audible signal indicates that flasher is activated
- Non-polarity sensitive
- 12 VDC operating range



Style A  
electro-mechanical



Style B  
electronic



### Solid State LED Flasher

- 6 amp flasher provides constant flash rate of 90 FPM for new LED lights
- Compact size fits standard two terminal flasher footprint - includes remote mount 36" long ground wire

Part #	Description
091225	Solid state LED flasher



Part #	Style	Terminals	Color	Lamp Rating	Flash Rate FPM	Amp Rating
091215	A	2	Clear smoke	1-10	60-120	25
091216	A	3	Clear smoke	1-10	60-120	25
Applications for 091216: Fits most American cars, older import cars and light trucks						
091208	B	2	Red	2-12	70-120	25
091209	B	3	Clear smoke	2-12	70-120	25
Applications for 091209: Straight truck, single trailer, high flasher usage						
091210	B	2	Clear smoke	2-16	70-120	35
091211	B	3	Clear smoke	2-16	70-120	35
Applications for 091211: Straight truck, single or double trailer or any vehicle with high flasher usage						
091212	B	2	Clear smoke	2-20	70-120	45
091213	B	3	Black	2-20	70-120	45
Applications for 091213: Severe duty, double or triple trailers or vehicles where flasher is frequently used						
091214	B	3	Clear smoke	10 Lamps / Side*	60-120	25
Application for 091214: Alternating "Wig-Wag" headlight application for emergency vehicles and school buses						

\*10 lamps per side (1156, 1157) or 4 (H4651) sealed beams  
See page E16 for three wire flasher socket Part No. 090225

### Thermal Flashers

- Flash two to three lamps for turn signals, two to six lamps for hazard warning

Part #	Description
091203	Two terminal
091204	Three terminal



### Heavy-Duty Flashers

- 12 lamp and 25 amp rating
- Last five times longer than thermal flashers
- Three-terminal flasher for vehicles equipped with flashing dash lights
- Operate at voltages as low as 7 VDC

Part #	Description
091201	Two terminal
091202	Three terminal

#### NOTES

A thermal flasher (fixed load) is NOT recommended for use when a trailer is connected to a car or truck. A heavy-duty flasher (variable load) is recommended duty for this type of application

Dash "- xx" indicates package quantity

## CIRCUIT BREAKERS

### Standard Circuit Breakers



- Copper colored battery stud provides easy identification
- "Waterproof" sealant and insert molded studs on waterproof breakers make them suitable for marine applications and trailer connections
- 12 VDC
- Meets applicable SAE J553 requirements
- Each circuit breaker includes two #10-32 nuts

Part # w/o mounting strap	Part # w/ mounting Strap	Amp
091011	091051	10
091015	091052	15
091020	091053	20
091025	091054	25
091030	091055	30
091040	091056	40
091050	091057	50

### ATM and MAXI™ Circuit Breaker



- Replacement for ATM/MINI® and MAXI™ blade type fuses
- 12 VDC, rated 5 to 30 amps
- -40°F (-40°C) to 185°F (85°C) operating temperature range
- ATM/MINI® Type II Modified Reset type breakers and MAXI™ Type I Automatic Reset type breakers meet applicable SAE J553 requirements

ATM/Mini® Part #	Maxi™ Part #	Amp
091500-3	-	5
091501	091510-10	10
091502	091511-10	15
091503	091512-10	20
091504	091513-10	25
091505	091514-10	30

### Fuse Clip Circuit Breakers



- Replacement for 1/4" x 1-1/4" glass fuses
- 12 VDC
- -25°F (-32°C) to 180°F (82°C) operating temperature range
- Type II Modified Reset type breakers meet SAE J553 requirements

Part #	Amp
091080	10
091081	15
091082	20
091083	30

### High Amp Circuit Breaker



- Type III switchable breaker typically used in auxiliary and accessory circuits for trucks, buses, RVs and marine applications
- Flush mount with sems nut installed
- 30 VDC
- -25°F (-32°C) to 180°F (82°C) operating temperature range
- Measures 2" x 3" overall
- Meets SAE J1625 requirements

Part #	Description
091005	60 High amp
091006	80 High amp
091007	100 High amp
091008	120 High amp
091003	150 High amp
091004	Economic 150 amp
091009	200 High amp



### Universal Snap-off Blade Type Circuit Breakers

- Replacement for ATC/ATO® blade type fuses
- Color-coded for easy identification
- 12 VDC
- -40°F (-40°C) to 185°F (85°C) operating temperature range
- Type I Automatic Reset type breakers meet applicable SAE J553 requirements

Part #	Amp	Color
091076	6	Silver
091071	10	Red
091072	15	Blue
091073	20	Yellow
091074	25	Silver
091075	30	Green

### Fuse and Fuse Block

- Isolates faults in equipment such as lift trucks and other battery operated systems
- Silver plated copper link visible through a mica window



Part #	Description
091351	ANL style fuse, 300 amp
091350	Fuse block for ANL style fuses



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## FUSES AND ACCESSORIES

### AGC, AGX and SFE Fuses

AGC Part #	AGX Part #	SFE Part #	Amp
091131-5	-	-	1
091132-5	-	-	2
091133-5	-	-	3
091135-5	-	-	5
091137-5	-	-	7 1/2
091140-5	-	-	10
091141-5	-	-	15
091142-5	See below	091171-5	20
091143-5	-	-	25
091144-5	See below	091172-5	30

### AGX Fuse Assortments

Part #	Description
091251	AGX 20-30 amp assortment

Includes (2) 20 amp, (2) 25 amp and (2) 30 amp AGX fuses

#### NOTES

Dash "- xx" indicates package quantity

\* In addition to display card packaging, fuses may also be ordered in bulk packs of 25 by adding a -25 to the part number



### Electrical Junction Box

- Measures 6-9/16" x 3-1/4"
- Includes all fasteners and grommets

Part #	Description
055060	Electrical junction box



AGC 1-30 / SFE 20, 30  
AGC 20, 30



ATC/  
ATO®



ATM/  
MINI®



MAXI™

### ATC/ATO®, ATM/MINI® and MAXI™ Fuses

ATC/ATO®	ATM/MINI®	MAXI™	Amp	Color
-	091300-5	-	2	Gray
091173-5	091301-5	-	3	Violet
091174-5	091302-5	-	4	Pink
091175-5	091303-5	-	5	Tan
091177-5	091304-5	-	7-1/2	Brown
091180-5*	091305-5*	-	10	Red
091181-5*	091306-5*	-	15	Blue
091182-5	091307-5*	091400-5	20	Yellow
091183-5*	091308-5*	-	25	Clear
091184-5*	091309-5*	091401-5	30	Green
-	-	091402-5	40	Orange
-	-	091403-5	50	Red
-	-	091404-5	60	Blue
-	-	091406-3	80	Natural



### ATC/ATO® Fuse Panel

- Accepts blade-type fuses, auto or manual reset circuit breakers
- 6 circuits, 30 amps per circuit with quick connect terminals
- No top cover needed; recessed fuse contacts provide touch-safe protection
- Black thermoplastic construction - temperature rating of -20°F (29°C) to +150°F (65°C)
- Fuses/circuit breakers sold separately

Part #	Description
091427	ATC/ATO® fuse panel



### ATC/ATO® Fuse Assortment with Combination Fuse Tester/Puller

- Assortment contains 42 ATC fuses - seven each of the six most popular fuses from 5 to 30 amps
- Combination fuse tester/puller tests and removes blade type and a variety of glass fuses
- Reclosable heavy-duty display pkg.

Part #	Description
091254	Fuse assortment with tester

## FUSES AND ACCESSORIES



### Universal In-Line Fuse Holder

- Universal nylon twist-lock fuse holder for 1/4" x 1-1/4" AGC, AGA, AGW, AGX and SFE fuses
- 20 amp maximum load
- 14 gauge lead wire
- Fuse sold separately

Part #	Description
091188	Universal in-line fuse holder



### Heavy Duty In-Line Fuse Holder

- Nylon heavy duty fuse holder for 1/4" x 1-1/4" glass fuses
- 30 amp maximum load
- 12 gauge lead wire
- Includes one 30 amp AGC fuse installed

Part #	Description
091189	Heavy duty in-line fuse holder w/ 30 amp AGC fuse



### Heavy Duty ATC/ATO® In-Line Fuse Holders

- Fits blade type fuses from 3 to 30 amps
- 12 gauge lead wire
- Part No. 091130 includes one 30 amp ATC fuse

Part #	Description
091190	Heavy duty ATC/ATO® in-line fuse holder w/o fuse
091130	Heavy duty ATC/ATO® in-line fuse holder w/ 30 amp ATC Fuse



### ATM/MINI® In-Line Fuse Holder with Cover

- Fits ATM/MINI® blade type fuses from 2 to 30 amps
- 12 gauge lead wire
- Cover provides protection from harsh under-the-hood environmental elements
- Fuse sold separately

Part #	Description
091426	ATM/MINI® In-line fuse holder with cover



### MAXI™ In-Line Fuse Holder with Cover

- Fits MAXI blade type fuses from 20 to 60 amps
- 8 gauge lead wire
- Cover provides protection from harsh under-the-hood environmental elements
- Fuse sold separately

Part #	Description
091425	MAXI In-line fuse holder with cover



091325

091326

### Add-A-Circuits

- Converts one circuit into two fuse protected circuits; plugs into fuse-block and accepts two fuses to provide protection for the existing circuit and the add-on circuit
- 10 amp maximum circuit load
- Fuse sold separately

Part #	Description
091325	ATM/MINI® Add-a-circuit
091326	ATC/ATO® Add-a-circuit

### Self-Stripping ATC/ATO® Fuse Holder

- For use with ATC/ATO® blade type fuses up to 30 amps
- Easily attaches to wires ranging from 18 to 14 gauge
- Fuse sold separately



Part #	Description
057003	Self-stripping ATC/ATO® fuse holder

In-line fuse holders (except MAXI) and add-a-circuits are display carded to fit on display rack in Retail section



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## FUSES AND ACCESSORIES

### Fuse Kits



Part #	Description
091001	ATM/MINI® and MAXI fuse kit
091002	ATC/ATO®, AGC and ATM/MINI® fuse kit

- Convenient, pre-packaged fuse assortments save time by keeping popular sized fuses close at hand
- Durable, see-through plastic cases with handy "locator" cards are easy to refill for using over and over
- Multi-functional kits can be displayed on the front counter to attract the impulse sale of single fuses or used as mini storage systems to save time and money by eliminating multiple trips to the shop for additional parts

### ATM/MINI® and MAXI™ Fuse Kit

ATM/MINI®	MAXI™	Qty	Amp
091300	-	10	2
091301	-	10	3
091303	-	10	5
091304	-	10	7-1/2
091305	-	10	10
091306	-	10	15
091307	-	10	20
091308	-	10	25
091309	-	10	30
-	091400	5	20
-	091401	5	30
-	091402	5	40
-	091403	5	50
-	091404	5	60
-	091406	3	80

### ATC/ATO®, AGC and ATM/MINI® Fuse Kit

AGC	ATM/MINI®	AGC	Qty	Amp
091133	-	-	10	3
091135	-	-	10	5
091140	-	-	10	10
091141	-	-	10	15
091142	-	-	10	20
091144	-	-	10	30
-	091303	-	10	5
-	091305	-	10	10
-	091306	-	10	15
-	091307	-	10	20
-	091308	-	10	25
-	091309	-	10	30
-	-	091175	10	5
-	-	091180	10	10
-	-	091181	10	15
-	-	091182	10	20
-	-	091183	10	25
-	-	091184	10	30

#### Did you know...

Federal Motor Carrier Safety Regulation 393.95 requires every bus, truck, truck tractor and a drive-away towaway operation to carry a replacement fuse for each kind and size in the vehicle?

## TERMINALS AND CONNECTORS

### Crimp Terminals and Connectors

- One-piece construction assures maximum electrical conductivity
- Electro bright, tin-plated annealed copper construction for maximum corrosion resistance
- Injection-molded insulation allows a funnel barrel construction for easy installation and ensures a consistent wall thickness for maximum reliability after crimping
- Crimp ridge on each terminal for positive location of crimp tool on terminal barrel means fewer mis-crimps
- Open end terminal design permits easy inspection of wire
- Designed to withstand temps of -40° to +221°F (+105°C)
- Heat-shrink tubing and electrical tape available and sold separately (see pages E32, E33 and E38)



**Velvac offers a wide variety of terminals and connectors. For the same application the following terminals may be available: crimp, crimp and seal, crimp/solder/seal, snap or heatless connectors**

### Crimp and Seal Terminals and Connectors

Simple three step installation reduces wiring time and costs



- Heat-shrink terminals combine color-coded, heat-shrink tubing with one-piece solderless terminals to produce fast, watertight, corrosion resistance cutwire connections
- UL approved
- Improved mechanical performance provides improved pull-out strength and strain relief
- Designed to withstand temperatures of -67°F (-55°C) to +221°F (+150°C)
- Electrical tape and heat gun available and sold separately (see page E38)
- Resist abrasion, scoring, cut-through and the effects of long term aging



STEP 1: STRIP copper wire

STEP 2: INSERT wire into sealing gel. Rotate to coat wire

STEP 3: RE-INSERT wire until insulation contacts connector. CRIMP connector



### Crimp/Solder/Seal Terminals and Connectors

- Pre-inserted solder terminals reduce installation time and increase efficiency, while achieving the benefits of both crimp terminals and solder terminals
- Each terminal contains solder for increased strength and conductivity
- Adhesive-lined heat shrink tubing seals out moisture and contaminants
- Wire gauge is printed on each connector for easy ID

### Heatless Terminals and Connectors-Revolutionary New Product

- A heatless, solder-less terminal utilizing a revolutionary anaerobic sealing technology requires NO HEAT
- Simply strip the wire and crimp, activating the sealant that reacts when the copper wire is inserted into the connector to create an environmentally sealed connection
- Easily installs in a fraction of the time of comparable heat seal connectors



- Prevents the ingress of moisture and air that can result in corrosion
- Nylon insulation provides maximum abrasion and puncture resistance while remaining seamless
- Reduces overall installation costs by eliminating the need for torches or heat guns, reducing the installation time and improving productivity



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## TERMINALS AND CONNECTORS

### Butt Splices



#### Crimps

Part #	Wire Gauge	Insulation
056051-50*	22-18	Vinyl-butted
057085-50	22-18	Nylon-smls**
056052-50*	16-14	Vinyl-butted
057086-50*	16-14	Nylon-smls**
056053-50*	12-10	Vinyl-butted
057087-50*	12-10	Nylon-smls**



Part #	Wire Gauge	Insulation
058362-50*	22-18	None
058028-50*	16-14	None
058029-50*	12-10	None

#### Brazed seam



Part #	Wire Gauge	Insulation
056054-10	8	Vinyl
056055-10	6	Vinyl
056056-10	4	Vinyl

Part #	Wire Gauge	Insulation
055106-10	22-18	Nylon
055107-10	16-14	Nylon
055108-10	12-10	Nylon

#### Helpful hint:

Terminal insulation is color-coded according to wire gauge specifications:

Red 22 - 18 AWG, 8 AWG  
 Blue 16 - 14 AWG, 6 AWG  
 Yellow 12 - 10 AWG, 4 AWG

#### Crimp/Seal

Part #	Wire Gauge	Insulation
055067-10	26-22	Nylon
058312-50*	22-18	Heat shrink
055075-10	22-18	Nylon & copper
055075-50	22-18	Nylon & copper
058313-40*	16-14	Heat shrink
055076-10	16-14	Nylon & copper
055076-50	16-14	Nylon & copper
058314-40*	12-10	Heat shrink
055077-10	12-10	Nylon & copper
055077-50	12-10	Nylon & copper
055068-10	8	Nylon

#### NOTES

Dash - "x" indicates package qty

\* Clam shell with quantity of ten (10) also available by adding "-10" to the base six digit number

\*\* Seamless



#### Step Down Splices

Part #	Wire Gauge	Tube Color
055069-10	22-18/16-14	Blue
055070-10	16-14/12-10	Yellow
055071-10	12-10/8	Pink

#### Crimp/Solder/Seal

Part #	Wire Gauge	Insulation
056144-25	22-18	Heat shrink
056145-25	16-14	Heat shrink
056146-25	12-10	Heat shrink



#### Heatless

Part #	Wire Gauge	Insulation
056111-5	22-18	Nylon
056111-100	22-18	Nylon
056112-5	16-14	Nylon
056112-100	16-14	Nylon
056113-5	12-10	Nylon
056113-100	12-10	Nylon

## TERMINALS AND CONNECTORS

### Spade Connectors



Block spade



#### Crimp

Wire Gauge	Crimp Part #	Stud Size, Insulation	Crimp Part #	Stud Size, Insulation
22-18	056043-50	8-10, Vinyl	056046-50	4-6, Vinyl
22-18	-	-	058345-50	6, Nylon
22-18	-	-	055114-10	6, Nylon
22-18	-	-	055115-10	10, Nylon
16-14	056044-50	8-10, Vinyl	056047-50*	4-6, Vinyl
16-14	057082-50	8-10, Nylon	057084-50	4-6, Nylon
16-14	-	-	055125-10	10, Nylon
12-10	056045-50	8-10, Vinyl	055135-10	10, Nylon
12-10	057083-50	8-10, Nylon	-	-

#### Crimp/Seal

Part #	Wire Gauge	Stud Size
058309-50	22-18	8-10
055078-10	22-18	6
055079-10	22-18	10
058335-50	16-14	6
058310-50	16-14	8-10
058336-50	16-14	1/4"
055080-10	16-14	6
055081-10	16-14	10
058311-50	12-10	8-10
058337-50	12-10	1/4"
055082-10	12-10	10
055083-10	12-10	1/4"

#### Crimp/Solder/Seal

Part #	Wire Gauge	Stud Size
056155-25	22-18	10
056156-25	16-14	10
056157-25	12-10	10



### Snap Terminals and Connectors

Plugs -  
butted seam



Receptacles -  
butted



Spades -  
butted



Receptacles -  
double



Wire Gauge	Part #	Snap Dia. Insulation	Part #	Snap Dia. Insulation	Part #	Stud Size Insulation	Part #	Snap Dia. Insulation
22-18	058338-50	0.156", Nylon	056076-50	0.156", Nylon	-	-	056080-50	0.157", Vinyl
16-14	058340-50*	0.156", Nylon	056078-50	0.156", Nylon	057092-50	8, Vinyl	-	-

### Male/Female Bullet Connections

Part #	Wire Gauge	Type	Insulation
055104-10	16-14	Male	Nylon
055105-10	16-14	Female	Nylon
055116-10	22-18	Male	Nylon
055117-10	22-18	Female	Nylon
055126-10	16-14	Male	Nylon
055127-10	16-14	Female	Nylon



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## TERMINALS AND CONNECTORS

### Ring Tongue Connectors

#### Crimp



Butted seam



Hooked tongue - butted seam

Wire Gauge	Crimp Part #	Stud Size, Insulation
22-18	056001-50	4-6, Vinyl
22-18	056002-50	8-10, Vinyl
22-18	056003-50	12-1/4", Vinyl
22-18	055109-10	6, Nylon
22-18	055110-10	10, Nylon
22-18	055111-10	1/4", Nylon
22-18	055112-10	5/16", Nylon
22-18	055113-10	3/8", Nylon
16-14	056004-50	4-6, Vinyl
16-14	057075-50	4-6, Nylon
16-14	057076-50*	8-10, Nylon
16-14	056006-50*	12-1/4", Vinyl
16-14	057077-50	12-1/4", Nylon
16-14	056007-50*	5/16"-3/8", Vinyl
16-14	057078-50	5/16"-3/8", Nylon
16-14	055120-10	6, Nylon
16-14	055121-10	10, Nylon
16-14	055122-10	1/4", Nylon
16-14	055123-10	5/16", Nylon
16-14	055124-10	3/8", Nylon
12-10	056008-50*	8-10, Vinyl
12-10	057079-50	8-10, Nylon
12-10	056009-50*	12-1/4", Vinyl
12-10	057080-50	12-1/4", Nylon
12-10	056010-50	5/16", Vinyl
12-10	057081-50	5/16", Nylon
12-10	056011-50*	3/8", Vinyl
12-10	056012-50	7/16"-1/2", Vinyl
12-10	055130-10	10, Nylon
12-10	055131-10	1/4", Nylon
12-10	055132-10	5/16", Nylon
12-10	055133-10	3/8", Nylon
12-10	055134-10	1/2", Nylon

Wire Gauge	Crimp Part #	Stud Size, Insulation
16-14	056049-50	4-6, Vinyl



Brazed seam

Wire Gauge	Crimp Part #	Stud Size, Insulation
8	058349-50	8-10, Nylon
8	058350-50	12-1/4", Nylon
8	058351-50	5/16"-3/8", Nylon
8	058352-50	7/16"-1/2", Nylon
6	058353-50	12-1/4", Nylon
6	058354-50	5/16"-3/8", Nylon
6	058355-50	7/16"-1/2", Nylon
4	058356-50	12-1/4", Nylon
4	058357-50	5/16"-3/8", Nylon
4	058358-50	7/16"-1/2", Nylon

#### NOTES

Dash - "x" indicates package qty

\* Clam shell with quantity of ten (10) also available by adding "-10" to the base six digit number

## TERMINALS AND CONNECTORS

### Ring Tongue Connectors

Continued

#### Crimp/Seal



Part #	Wire Gauge	Stud Size
058334-50	22-18	6
058301-50	22-18	8-10
055064-10	22-18	6, 8, 10
055084-10	22-18	6
055085-10	22-18	8
055086-10	22-18	10
055087-10	22-18	1/4"
055088-10	22-18	5/16"
058302-50	16-14	4-6
058303-50	16-14	8-10
058304-50	16-14	1/4"
058305-50	16-14	5/16"-3/8"
055065-10	16-14	6, 8, 10
055089-10	16-14	8
055090-10	16-14	10
055091-10	16-14	1/4"
055092-10	16-14	5/16"
055093-10	16-14	3/8"
058306-50	12-10	8-10
058307-50	12-10	1/4"
058308-50	12-10	5/16"-3/8"
055066-10	12-10	6, 8, 10
055094-10	12-10	10
055095-10	12-10	1/4"
055096-10	12-10	5/16"
055097-10	12-10	3/8"

#### Crimp/Solder/Seal



Part #	Wire Gauge	Stud Size
056147-25	22-18	10
056149-25	16-14	1/4"
056150-25	16-14	3/8"
056151-25	12-10	10
056152-25	12-10	1/4"
056153-25	12-10	3/8"
056154-25	12-10	1/2"

#### NOTES

Dash - "x" indicates package quantity

\*Clam shell with quantity of ten (10) also available by adding "-10" to the base six digit number

### Three and Four Way Connectors



Wire Gauge	Four-Way #	Insulation	Three-Way #	Insulation
22 - 18	058346-10	Vinyl	058363-10	Vinyl
16 - 14	056084-10	Vinyl	056082-10	Vinyl
12 - 10	-	-	056083-10	Vinyl

### Pig Tails



Wire Gauge	Part #	Insulation
22 - 18	056184-50*	Nylon
16 - 14	056185-50*	Nylon
12 - 10	056186-50*	Nylon

### Wire Nuts



Part #	Size	Color
058364-50	71B	Grey
058365-50	72B	Blue
058366-40	73B	Orange
058367-10	74B	Yellow



Self strip connector

Part #	Wire Gauge
056093-50*	18-14
056094-10	12-10 Run, 18-14 Tap



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## TERMINALS AND CONNECTORS

### Male Quick Slide Terminals And Connectors - Tab Width .250"

#### Crimp



Butted seam - fully insulated



Butted seam

Wire Gauge	Part #	Insulation	Part #	Insulation
22-18	056069-50	Nylon	056063-50	Vinyl
22-18	055098-10	Nylon	-	-
16-14	056070-50	Nylon	056064-50*	Vinyl
16-14	-	-	057090-50	Nylon
16-14	055100-10	Nylon	-	-
12-10	056071-50	Nylon	056065-50*	Vinyl
12-10	-	-	057091-50	Nylon
12-10	055102-10	Nylon	-	-



Double male to female

056088-50	None	056086-50	None
-----------	------	-----------	------



90° Flag butted seam

#### Crimp/Seal



Fully insulated

Wire Gauge	Part #	Insulation
22-18	058315-40	Ht Shrink
16-14	058316-40	Ht Shrink
12-10	058317-10	Ht Shrink
22-18	055118-10	Nylon
16-14	055128-10	Nylon
12-10	055136-10	Nylon

#### Crimp/Solder/Seal



Fully insulated

Wire Gauge	Part #	Insulation
22-18	056169-25	Vinyl
16-14	056159-25	Vinyl
12-10	056164-25	Vinyl

### Female Quick Slide Terminals And Connectors - Tab Width .250"

#### Crimp



Butted seam - fully insulated



T-tap self stripping



Butted Seam

Wire Gauge	Part #	Insulation	Part #	Insulation	Part #	Insulation
22-18	056066-50	Nylon	058347-40	Nylon	056060-50	Vinyl
22-18	055099-10	Nylon	-	-	-	-
16-14	056067-50*	Nylon	057096-40	Nylon	056061-50*	Vinyl
16-14	055101-10	Nylon	-	-	057088-50*	Nylon
12-10	056068-50*	Nylon	058348-40	Nylon	056062-50*	Vinyl
12-10	055103-10	Nylon	-	-	057089-50	Nylon



Fully insulated

#### Crimp/Seal

Wire Gauge	Part #	Insulation
22-18	058318-50	Ht Shrink
22-18	055119-10	Nylon
16-14	058319-50	Ht Shrink
16-14	055129-10	Nylon
12-10	058320-10	Ht Shrink
12-10	055137-10	Nylon

#### Crimp/Solder/Seal



Fully insulated



Butted Seam

Wire Gauge	Part #	Insulation	Part #	Insulation
22-18	056165-25	Ht Shrink	056168-25	Vinyl
16-14	056166-25	Ht Shrink	056158-25	Vinyl
12-10	056167-25	Ht Shrink	056160-25	Vinyl

#### NOTES

Dash- "x" indicates package qty

\* Clam shell with quantity of ten (10) also available by adding "-10" to the base six digit number

## TERMINALS AND CONNECTORS

### Terminal Kits

- Convenient, pre-packaged terminal assortments
- Durable, see-through plastic cases with handy "locator" cards are easy to identify and refill
- Multi-functional kits can be displayed on the front counter to attract the impulse sale of single terminals or used as mini storage system

Part #	Description
056107	Solderless terminal kit
056108	Heat-shrink terminal kit
056109	Electrical connector kit



### Solderless Terminal Kit

- 195 total fittings

Part #	Description	Qty.
057085	22-18 ga. Butt conn	12
057086	16-14 ga. Butt conn	12
057087	12-10 ga. Butt conn	12
056002	22-18 ga. Ring tongue	12
056005	16-14 ga. Ring tongue	12
056011	12-10 ga. Ring tongue	12
056043	22-18 ga. Spade tubing	12
056044	16-14 ga. Spade	12
056045	12-10 ga. Spade	12
057061	16-14 ga. Shrink tubing	5
057062	12-10 ga. Shrink tubing	5
057149	22-18 ga. Shrink tubing	5
056061	16-14 ga. F. quick	12
056062	12-10 ga. F. quick	12
056064	16-14 ga. M. quick	12
056065	12-10 ga. M. quick	12
058340	16-14 ga. Snap plug	12
056078	16-14 ga. Snap plug	12

### Heat Shrink Terminal Kit

- 132 total fittings

Part #	Description	Qty.
058312	22-18 ga. Butt conn	8
058313	16-14 ga. Butt conn	8
058314	12-10 ga. Butt conn	8
058309	22-18 ga. spade	8
058310	16-14 ga. spade	8
058311	12-10 ga. spade	8
058302	16-14 ga. Ring tongue	8
058303	16-14 ga. Ring tongue	8
058304	16-14 ga. Ring tongue	8
058305	16-14 ga. Ring tongue	8
058306	12-10 ga. Ring tongue	8
058308	12-10 ga. Ring tongue	8
058315	22-18 ga. F. quick slide	6
058316	16-14 ga. F. quick slide	6
058317	12-10 ga. F. quick slide	6
058318	22-18 ga. F. quick slide	12
058319	16-14 ga. F. quick slide	6
058320	12-10 ga. F. quick slide	6

### Electrical Connector Kit

- 170 total fittings

Part #	Description	Qty.
056051	22-18 ga. Butt conn	12
056052	16-14 ga. Butt conn	12
056053	12-10 ga. Butt conn	12
021007	3/8" tube O.D. clip	6
056091	22-14 ga. Pigtail	15
056093	18-14 Tap	10
056002	22-18 Ring tongue	12
056005	16-14 Ring tongue	12
056008	12-10 Ring tongue	12
021009	1/2" tube O.D. tube clip	6
056092	18-10 ga. Pigtail	15
056094	12-10 run 18-14 tap	10
056043	22-18 Spade	12
056044	16-14 ga. Spade	12
056045	12-10 ga. Spade	12

### Solderless Terminal Fleet Maintenance Kit

- Packaged in a heavy-duty steel box with 20 popular styles of solderless terminals and nylon tie straps

Part #	Description
056096	Kit with crimping tool
056097	Kit without crimping tool



NOTE: Terminals also sold separately on pages E24-E28. Tie straps sold separately on page E35. Crimping tool sold separately on page E37

Part #	Qty.	Part #	Qty.
056002	20	056044	20
056004	20	056047	20
056005	20	058340	20
056006	20	056078	20
056061	20	056093	20
056064	20	056050	20
056067	20	056051	20
056070	20	056052	20
056009	20	056053	20
056011	20	056186	20
056014	20		



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## PRIMARY WIRE AND ACCESSORIES

### General Purpose Primary Wire

- Soft annealed copper strands
- PVC outer jacket
- Designed to withstand temperatures up to +250°F
- Wire meets SAE J1128 Type GPT requirements



Part #	Wire Gauge	Spool Size	Color
051101	18	100'	Black
051103	18	100'	Red
051105	18	100'	White
051117-6	16	1000'	Black
051121-6	16	1000'	Red
051123-6	16	1000'	White
051119-6	16	1000'	Green
051117	16	100'	Black
051121	16	100'	Red
051123	16	100'	White
051125	16	100'	Yellow
051127	16	100'	Blue
051129	16	100'	Brown
051119	16	100'	Green
051135-6	14	1000'	Black
051139-6	14	1000'	Red
051141-6	14	1000'	White
051143-6	14	1000'	Yellow
051145-6	14	1000'	Blue
051147-6	14	1000'	Brown
051137-6	14	1000'	Green
051135	14	100'	Black
051139	14	100'	Red
051141	14	100'	White

Part #	Wire Gauge	Spool Size	Color
051143	14	100'	Yellow
051145	14	100'	Blue
051147	14	100'	Brown
051137	14	100'	Green
051157-7	12	500'	Red
051159-7	12	500'	White
051161-7	12	500'	Yellow
051163-7	12	500'	Blue
051155-7	12	500'	Green
051153	12	100'	Black
051157	12	100'	Red
051159	12	100'	White
051161	12	100'	Yellow
051163	12	100'	Blue
051165	12	100'	Brown
051155	12	100'	Green
051175-7	10	500'	Black
051171-7	10	500'	Red
051177-7	10	500'	White
051175	10	100'	Black
051171	10	100'	Red
051177	10	100'	White
051173	10	100'	Blue

### Primary Wire Rack

- Holds (12) 100' spools, (8) 100' and (2) 1000' spools or (4) 1000' spools
- Heavy gauge plated steel construction
- Wire spools sold separately

Part #	Description
691015	Primary wire rack



## SPIRAL WRAP

- Replace worn or damaged 3-in-1 or 4-in-1 air/electrical assembly wrap
- Use to protect or bundle jumper lines, slider hoses, ABS lines, hydraulic hoses and more
- Prevents tangling and potential damage to lines
- Various sizes allow for customized bundle combinations

100' Coil	Diameter
020078	1.25"
020079	1.50"
020080	2"



## SPLIT LOOM

### Convuluted Split Loom

- High temperature loom suitable for engine compartment use
- Split seam permits easy insertion and repair of wire, tubing, cable, etc.
- Convuluted black nylon allows for excellent pinch and abrasion resistance
- Designed to withstand temperatures from -40° to +200°F
- Meets FMVSS 302 requirements

100' Coil	250' Coil	Loom I.D.
020104-7	020104	1/4"
020106-7	020106	3/8"
020108-7	020108	1/2"
020110-7	020110	5/8"
020112-7	020112	3/4"
020116-7	-	1"
020117-7	-	1-1/4"
020118-7	-	1-1/2"
020119-7	-	1-7/8"



**NOTE: Part numbers listed in RED are NEW!**



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## PRIMARY WIRE AND ACCESSORIES

### Gray Jacketed Parallel Wire

Part #	Wire Gauge	Spool Size
051050	16	100'
051058	14	100'
051066	12	100'
051050-7	16	500'
051058-7	14	500'



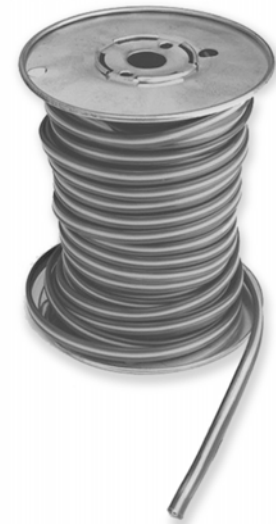
### Three-Way and Four-Way Bonded Parallel Wire\*

Part #	Wire Gauge	Conductor	Wire Color	Spool Size
051052	16	Three	Brown-Green-Yellow	100'
051060	16	Three	Brown-Green-Yellow	100'
051054	14	Four	Brown-Green Yellow-White	100'
051062	14	Four	Brown-Green Yellow-White	100'

#### NOTES

See page E8 for ATA color code description

\* Round wire glued together



## HEAT-SHRINK TUBING

### Heavy Wall Heat-Shrink Tubing With Liner



Part #	Wire Gauge	Length	I.D. Pre-Shrink	I.D. After
057146-10	18-14	6"	.300"	.100"
057148-5	18-14	48"	.300"	.100"
057058-10	14-6	6"	.400"	.150"
057159-5	14-6	48"	.400"	.150"
057059-10	8-1	6"	.750"	.200"
057150-25	8-1	1-1/2"	.750"	.200"
057152-2	8-1	48"	.750"	.200"
057060-10	2-4/0	6"	1.100"	.375"
057097-25	2-4/0	1-1/2"	1.100"	.375"
057160-2	2-4/0	48"	1.100"	.375"

- Durable polyolefin construction
- Inner liner melts to produce a flexible, waterproof seal for the life of the connection
- UL Listed/CSA certified in direct buried applications
- Flame retardant
- 3:1 shrink ratio
- See page E38 for heat gun - recommended heat range is 250°F (120°C) to 485°F (250°C)

#### NOTES

See next page for more heavy wall heat-shrink tubing with liner

## HEAT-SHRINK TUBING

### Heavy Wall Heat-Shrink Tubing With Liner

- Durable polyolefin construction
- Inner liner melts to produce a flexible, waterproof seal for the life of the connection
- UL Listed/CSA certified in direct buried applications
- Flame retardant
- 3:1 shrink ratio
- See page E38 for heat gun - recommended heat range is 250°F (120°C) to 485°F (250°C)

Part #	Wire Gauge	Length	I.D. Pre-Shrink	I.D. After
057147-10	18-14	6"	.300"	.100"
057158-10	14-6	6"	.400"	.150"
057073-10	8-1	6"	.750"	.220"
057151-25	8-1	1-1/2"	.750"	.220"
057153-2	8-1	48"	.750"	.220"
057074-10	2-4/0	6"	1.100"	.375"
057098-25	2-4/0	1-1/2"	1.100"	.375"
057174-2	2-4/0	48"	1.100"	.375"



### Thin Wall Heat-Shrink Tubing Without Liner

- Durable polyolefin construction
- UL recognized and flame retardant
- Continuous operating temperature: -67°F (-55°C) to 275°F (135°C)
- Recommended heat range is 250°F (120°C) to 485°F (250°C)
- 2:1 shrink ration

Part #	Wire Gauge	Length	Color	I.D. Pre-Shrink	I.D. After
057061-25	16-14	2"	Blue	.250"	.125"
057062-25	12-10	2"	Yellow	.375"	.187"
057149-25	22-18	6"	Red	.125"	.062"
057112-10	-	6"	Black	.190"	.093"
057113-10	-	6"	White	.250"	.125"
057114-10	-	6"	Red	.375"	.187"
057115-10	-	6"	Black	.500"	.250"
057116-10	-	6"	White	.750"	.370"
057117-10	-	6"	Red	1.00"	.500"

#### NOTES

Dash - "x" indicates package quantity



### Thin Wall Heat-Shrink Tubing

- Disk packaging for convenient storage and waste reduction
- Packaged for showroom display and impulse buying
- Available in three colors corresponding to NEMA color-codes
- Easily fits in toolbox

Part #	Description
057131	3/16" I.D., Red
057132	1/4" I.D., Blue
057133	5/16" I.D., Yellow

Packaged in 8' rolls - one roll per disk pack



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## HEAT-SHRINK TUBING

- Convenient, pre-packaged tubing assortments save time by keeping popular sized tubing in 6" lengths close at hand
- Durable, see-through plastic cases with handy "locator" cards are easy to find items and refill

Part #	Description
057110	Heavy wall heat-shrink tubing kit
057111	Thin wall heat-shrink

### Heat-Shrink Tubing Kits



057110

#### Heavy Wall Heat-Shrink Tubing Kit

- 36 total fittings

Part #	Pieces	Description
057060	4 pcs	1.10" Black
057059	4 pcs	.750" Black
057058	10 pcs	.400" Black
057074	4 pcs	1.10" Red
057073	4 pcs	.750" Red
057158	10 pcs	.400" Red

#### Thin Wall Heat-Shrink Tubing Kit

- 86 total fittings

Part #	Pieces	Description
057112	36 pcs	3/16" Black
057113	24 pcs	1/4" White
057114	12 pcs	3/8" Red
057115	6 pcs	1/2" Black
057116	4 pcs	3/4" White
057117	4 pcs	1" Red



057111

## TIE STRAPS, GROMMETS AND WIRE CLIPS

### Cable Tie Straps

Stand. Part #	BK UV Tie Part #	Length	Min. Diam	Max. Diam	Min Ten. Strength	Stud Size
090002-100	090064-100	5"	1/16"	1-1/4"	30 lb	-
090004-100	090067-100	7"	1/16"	1-3/4"	50 lb	10
090006-25	090070-25	14"	3/16"	4"	120 lb	-
090010-25	090071-25	14"	3/16"	4"	120 lb	14
090014-100	090066-100	7"	1/16"	1-3/4"	50 lb	-
090016-100	090068-100	14"	1/16"	4"	50 lb	-
-	090030-50	24"	-	-	175 lb	-
-	090029-50	36"	-	-	175 lb	-



090002, 090064



090004, 090067



090006, 090070



090010, 090071



090014, 090066

090016, 090068

090030, 090029

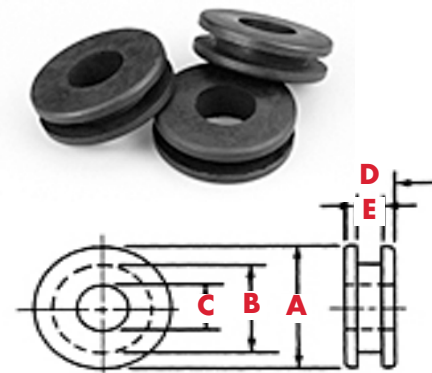
#### NOTES

Dash "-xxx" indicates package quantity

## TIE STRAPS, GROMMETS AND WIRE CLIPS

### Rubber Grommets

Part #	A	B	C	D	E
021059	9/16"	7/16"	5/16"	3/16"	1/16"
021061	1-3/8"	1"	1/2"	1/2"	1/8"
021063	1-1/4"	31/32"	5/8"	3/8"	1/8"
021065	1-3/4"	1-3/16"	3/4"	1/2"	7/32"



### Nylon Grommet



- Provides protection for 16, 14 and 12 gauge wires
- Fits into a 3/8" diameter mounting hole with wall thickness up to 1/8"

Part #	Description
021070	Nylon grommet

### Tube Clips



- Zinc-plated steel construction for corrosion resistance
- Rubber coating protects tubing and wires

Part #	Tube O.D.	Mounting Bolt Size
021001	3/16"	1/4"
021003	1/4"	1/4"
021005	5/16"	1/4"
021007	3/8"	1/4"
021009	1/2"	1/4"
021011	5/8"	1/4"
021013	3/4"	3/8"
021015	7/8"	1/4"
021017	1"	1/4"
021019	1-1/4"	5/16"

### Wire Clips



- Spring tension clips are ideal for holding primary wire to truck frame
- Tips are vinyl coated for wire protection

Part #	Description
021021	1/4" Wire clip
021023	1/2" Wire clip

### Rubber Cushioned Clamps



Clamp Diam.	3/8" Mount Screw, 5/8" Wide Part #	1/4" Mount Screw, 1/2" Wide Part #
1/4"	021102	021114
3/8"	021103	021115
1/2"	021104	021116
5/8"	021100	021117

Clamp Diam.	3/8" Mount Screw, 5/8" Wide Part #	1/4" Mount Screw, 1/2" Wide Part #
3/4"	021105	021118
1"	021106	021119
1-1/4"	021107	-
1-1/2"	021108	-
2"	021109	-
2-1/2"	021110	-
3"	021111	-
4"	021112	-
5"	021113	-



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### Work Lights

- Incandescent light includes grounded metal swing-open bulb guard and 25' 16/3 outdoor all-weather power cord (cord remains flexible in sub-zero temperatures to -20°F)
- On/Off switch, grounded three prong outlet and 13 amp resettable circuit breaker built into handle
- Metal hanging hook
- For use with up to 75 watt standard incandescent bulb (not included)

Part #	Description
057123	Work light



### Deluxe Crimping Tool

- Crimps terminals ranging in size from 26 to 6 gauge
- Five popular sized bolt cutting stations cleanly cut mild steel and nonferrous material

Part #	Description
058026	Deluxe crimping tool



### Economy Crimping Tool

- Accepts 8 through 4/0 gauge terminals, connectors, lugs
- Hammer required for operation

Part #	Description
058030	Economy crimping tool



### Short Tube Work Light 13 Watt

- Fluorescent light features new ergonomic handle, shatter resistant housing and 25' 16/3 attached cord
- Ballast, On/Off switch and three prong tool outlet built into bottom end of handle
- Handle accepts 360° adjustable magnet mounting clip allowing lamp to adhere to metal surface
- Shatter resistant polycarbonate lens with 270° arc of light
- 360° adjustable swivel hanging hook
- No tools needed for easy bulb replacement means it's cool and energy efficient
- Includes 13 watt fluorescent twin tube

Part #	Description
057125	Light - 13 Watt



### Heavy-Duty Crimping Tool

- For crimp-type terminals from 6 to 4/0 gauge
- Rotating, letter-coded crimping die
- Reference guides on handles for proper die settings

Part #	Description
058171	Heavy-duty crimping tool
058172	Replacement left jaw
058173	Replacement right jaw



### Long Tube Work Light 15 Watt

- Fluorescent light features shatter resistant lamp housing an 25' 18/2 attached power cord
- On/Off switch built into handle
- Plug-in ballast built into power cord plug
- Non-glare reflector
- 360° adjustable swivel hanging hook

Part #	Description
057124	Light - 15 Watt



### Copper Cable Cutter

- Capable of cutting up to 1" diameter copper stranded electrical cable
- 13" long steel handles with vinyl hand grips

Part #	Description
057072	Copper cable cutter



### Compact Cable Cutter

- Designed to cut copper wire and cable up to 4/0 gauge

Part #	Description
057071	Compact cable cutter

## SHOP TOOLS AND ACCESSORIES



### Heat Gun

- Produces temperatures from 750° to 1100°F
- Built-in circuit breaker and three position switch (Hot/Off/Fan only)

Part #	Description
058160	Heat gun



### Triple Outlet All-Weather Extension Cord

- 50' 12/3 high visibility yellow cord rated at 15 amps, 125 VDC
- Heavy duty power block at female end with resettable 15 amp circuit breaker and three grounded outlets

Part #	Description
057128	50' Extension cord



### General Purpose Vinyl Electrical Tape

- Rated to 176°F (80°C)
- Meets UL510 requirements for UV resistance
- UL listed 539H and meets Canadian Standards Association LR48769

Part #	Tape Thickness	Roll Size
058382	7 mil	3/4" x 60'



### 25' Cord Reel

- Retractable 25' 16/3 cord rated at 10 amps, 125 VDC
- Housing constructed of high impact plastic with 4 built-in grounded outlets, 10 amp resettable circuit breaker and a convenient wind-up knob
- When completely wound, reel fits easily into tool box or drawer
- Carrying handle attached for convenient portability

Part #	Description
057126	25' Cord reel



### 50' Cord Reel

- Retractable 50' 14/3 yellow cord rated at 13 amps, 125 VDC to -40°
- Heavy duty cord includes heavy duty power block with built-in resettable 13 amp circuit breaker and three grounded outlets
- Industrial/commercial grade auto ratcheting plastic alloy reel housing with built-in carrying handle
- Includes quick release wall/ceiling mounting bracket for portability
- All hardware included

Part #	Description
057127	50' Cord reel



### Silicon Self-Fusing Tape

- Tape self fuses and cures in 24 hours to form a permanent moisture tight seal
- Has no adhesive lining leaving the application clean with no sticky residue
- Provides high tech alternative to heat shrink tubing
- Ideal for high temperature applications such as battery terminals
- High dielectric strength
- Temperature range: -85° to +500°F
- Packaged in clamshell, 1" wide, 20' long rolls (qty 1 per clamshell)

Part #	Color	Description
058380*	Black	Self-fusing tape
058381*	Red	Self-fusing tape

\*Add -4 to the part number for 10 piece bucket display in Retail section



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**OUR PARTS PUT YOU IN THE PASSING LANE**

# **FITTINGS & HARDWARE**

## **Precision engineered.**

Velvac offers one of the most comprehensive fittings lines in the industry. From push-lock fittings with an engineered tube retention system and seal design for superior holding and side-load retention capabilities, to more traditional brass male and female fittings, Velvac has you covered.

- **Corrosion resistant**
- **Heavy gauge to exceed SAE torque requirements**
- **Extended diameter range**



# FITTINGS & HARDWARE

## PUSH-LOCK AIR BRAKE FITTINGS

- Designed for use with SAE J844 nylon tubing
- DOT 49CFR 571.106 compliant high strength composite fittings offer weight savings over all brass style fittings currently being used by many OE vehicle manufacturers
- Fittings meet performance requirements as stated in SAE J1131\*
- Operating temperatures from -45°F to +140°F
- Maximum operating pressure 145 psi
- Elbows and male branch fittings with built-in swivel for positioning
- Engineered tube retention system and seal design for superior holding and side load retention
- Positive release bushing for easy insertion and removal of tubing
- Thread sealant applied to all male pipe threads to reduce installation time and expense

\* Indicates parts that DO NOT meet DOT or SAE specification for air brake applications

### WARNING!

Velvac's line of push-lock brake fittings and tubing are designed only for use in vehicles where air is utilized as the operating fluid. As such, Velvac's push-lock air brake fittings should only be used in a manner consistent with the manufacturer's specifications.

Using Velvac's push-lock fittings or tubing improperly or in a manner inconsistent with the manufacturer's specifications may result in serious injury or property damage. For example, Velvac's push-lock fittings and tubing are not intended for use in environments exceeding 145 psi and only for temperatures between -45°F and +140°F. Velvac push-lock fittings and tubing are intended for use only as defined in 49CFR571.106.

Further, the U.S. Department of Transportation prohibits the use of push-lock fittings and nylon tubing as a connection between (I) a semi-tractor & trailer, or (II) a drive shaft and chassis.

**NOTE: 1/8" push-lock fittings DO NOT meet DOT or SAE specifications for air brake applications.**

### 90° Male Swivel Elbows (Sealant applied)

- Composite body with brass pipe-fitting end



Part #	Tube Size	Pipe Size
016212*	1/8"	1/8"
016214*	1/8"	1/4"
016222	5/32"	1/8"
016270	5/32"	1/4"
016271	3/16"	1/8"
016242	1/4"	1/8"
016244	1/4"	1/4"
016246	1/4"	3/8"
016254	1/4"	1/2"
016262	3/8"	1/8"
016264	3/8"	1/4"
016266	3/8"	3/8"
016268	3/8"	1/2"
016284	1/2"	1/4"
016286	1/2"	3/8"
016288	1/2"	1/2"
016278	5/8"	3/4"
016279	5/8"	3/8"
016281	5/8"	1/2"
016276	3/4"	1/2"
016277	3/4"	3/4"

### Union 'Y'

- Composite body



Part #	Tube Size
016289	1/4 x 1/4 x 1/4"
016291	1/4 x 1/4 x 3/8"
016290	3/8 x 3/8 x 3/8"

### 45° Male Swivel Elbows (Sealant applied)

- Composite body with brass pipe-fitting end



Part #	Tube Size	Pipe Size
016412*	1/8"	1/8"
016451	5/32"	1/8"
016442	1/4"	1/8"
016444	1/4"	1/4"
016446	1/4"	3/8"
016452	3/8"	1/8"
016464	3/8"	1/4"
016466	3/8"	3/8"
016947	3/8"	1/2"
016453	1/2"	1/4"
016486	1/2"	3/8"
016950	1/2"	1/2"
016454	5/8"	3/8"
016450	5/8"	1/2"
016455	5/8"	3/4"
016456	3/4"	3/8"
016457	3/4"	1/2"

### Union Tees

- Composite body



Part #	Tube Size
016910*	1/8"
016920	5/32"
016930*	3/16"
016940	1/4"
016960	3/8"
016980	1/2"
016985	1/2 x 1/2 x 3/8"
016982	5/8"



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# FITTINGS & HARDWARE

## PUSH-LOCK AIR BRAKE FITTINGS

### Bulkhead Unions

- Brass construction



Part #	Tube Size
016810*	1/8"
016840	1/4"
016860	3/8"
016880	1/2"

### Female Bulkhead Connectors



Part #	Tube Size	Thread Size
016814	1/4"	1/8"
016812	1/4"	1/4"
016813	3/8"	1/4"
016815	3/8"	3/8"
016816	1/2"	3/8"

### Full Unions

- Composite body



Part #	Tube Size A	Tube Size B
016610*	1/8"	1/8"
016620	5/32"	5/32"
016630*	3/16"	3/16"
016640	1/4"	1/4"
016660	3/8"	3/8"
016680	1/2"	1/2"
016670	5/8"	5/8"
016621	3/4"	3/4"
016623*	5/32"	1/4"
016622	1/4"	3/8"
016624	3/8"	1/2"

### 'Y' Male Branches

- Composite body



Part #	Tube Size	Thread Size
016294	1/4"	1/4"
016295	3/8"	1/4"

### Male Run Tees

- Brass/composite



Part #	Tube Size	Pipe Size
016400	1/4"	1/8"
016401	1/4"	1/4"
016402	3/8"	1/4"
016403	3/8"	3/8"
016404	3/8"	1/2"
016405	1/2"	3/8"
016406	1/2"	1/2"
016407	5/8"	1/2"
016409	1/4"	3/8"

### Female Elbows



Part #	Tube Size	Thread Size
016247	1/4"	1/8"
016248	1/4"	1/4"
016249	3/8"	1/4"
016250	3/8"	3/8"

### Plug In 90° Elbows



Part #	Tube Size
016348	1/4"

### Male Connectors

(Sealant supplied)



Part #	Tube Size	Pipe Size
016110*	1/8"	1/16"
016112*	1/8"	1/8"
016114*	1/8"	1/4"
016120	5/32"	1/16"
016122	5/32"	1/8"
016124	5/32"	1/4"
016121*	3/16"	1/8"
016142	1/4"	1/8"
016144	1/4"	1/4"
016146	1/4"	3/8"
016162	3/8"	1/8"
016164	3/8"	1/4"
016166	3/8"	3/8"
016168	3/8"	1/2"
016184	1/2"	1/4"
016186	1/2"	3/8"
016188	1/2"	1/2"
016951	3/4"	1/2"
016161	3/4"	3/4"
016163	5/8"	3/8"
016189	5/8"	1/2"
016187	3/4"	3/8"

### Female Connectors

(Sealant applied)



Part #	Tube Size	Pipe Size
016102	1/4"	1/8"
016103	1/4"	1/4"
016104	3/8"	1/4"
016105	3/8"	3/8"

\* Indicates parts that DO NOT meet DOT or SAE specification for air brake applications

# FITTINGS & HARDWARE

## PUSH-LOCK AIR BRAKE FITTINGS

### Union 90° Elbows

- Composite body



Part #	Tube Size
016282	5/32"
016305*	3/16"
016283	1/4"

\* Indicates parts that DO NOT meet DOT or SAE specification for air brake applications

### Male Branch Swivel Tees

- (Sealant applied)
- Composite body



Part #	Tube Size	Pipe Size
016312*	1/8"	1/8"
016314*	1/8"	1/4"
016342	1/4"	1/8"
016344	1/4"	1/4"
016343	1/4 x 1/4"	3/8"
016364	3/8"	1/4"
016366	3/8"	3/8"
016368	3/8"	1/2"
016386	1/2"	3/8"
016388	1/2"	1/2"
016408	5/8"	1/2"

### Female Branch Tees



Part #	Tube Size	Pipe Size
016415	1/4"	1/4"
016416	3/8"	1/8"
016417	3/8"	1/4"

### Composite Plugs



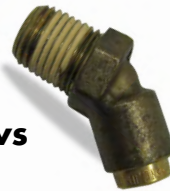
Part #	Tube Size
016115	1/4" (Pkg. of 5)
016116	3/8" (Pkg. of 5)
016117	1/2"

## BRASS PUSH-LOCK AIR BRAKE FITTINGS

- Designed for use with SAE J844 nylon tubing
- DOT 49CFR 571.106 compliant
- Fittings complies with worldwide Standard and Legislation including SAE J1131 "Hot Pull" requirements
- Operating temperatures from -40°F to +212°F
- Maximum operating pressure 0 to 150 psi
- Elbows and male branch fittings with built-in swivel for positioning
- Collet with multiple teeth for high grip on the tube
- Side load retention capabilities
- Positive release bushing for easy insertion and removal of tubing
- Thread sealant applied to all male pipe threads to reduce installation time and expense

### 45° Male Fixed Elbows

(Sealant applied)



Part #	Tube Size	Pipe Size
017980	1/4"	1/8"
017981	1/4"	1/4"
017982	3/8"	1/4"
017983	3/8"	3/8"
017984	1/2"	3/8"
017985	1/2"	1/2"

### 45° Male Swivel Elbows

(Sealant applied)



Part #	Tube Size	Pipe Size
017991	1/4"	1/8"
017992	1/4"	1/4"
017993	3/8"	1/4"
017994	3/8"	3/8"
017995	1/2"	3/8"
017996	1/2"	1/2"

### Male Run Tees

(Sealant applied)



Part #	Tube Size	Pipe Size
017900	1/4"	1/4"
017901	3/8"	1/4"
017902	3/8"	3/8"

### Male Branch Swivel Tees



Part #	Tube Size	Pipe Size
017970	1/4"	1/8"
017972	3/8"	1/4"
017973	3/8"	3/8"
017974	1/2"	3/8"



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# FITTINGS & HARDWARE

## BRASS PUSH-LOCK AIR BRAKE FITTINGS

### Union Connectors



Part #	Tube A	Tube B
017910	1/4"	1/4"
017911	3/8"	3/8"
017912	1/2"	1/2"
017913	5/8"	5/8"
017914	3/4"	3/4"

### 90° Male Swivel Elbows

(Sealant applied)



Part #	Tube Size	Pipe Size
017950	1/4"	1/8"
017951	1/4"	1/4"
017952	1/4"	3/8"
017953	3/8"	1/8"
017954	3/8"	1/4"
017955	3/8"	3/8"
017956	3/8"	1/2"
017957	1/2"	1/4"
017958	1/2"	3/8"
017959	1/2"	1/2"

### Male Connectors

(Sealant applied)



Part #	Tube Size	Pipe Size
017940	1/4"	1/8"
017941	1/4"	1/4"
017942	1/4"	3/8"
017943	3/8"	1/8"
017944	3/8"	1/4"
017945	3/8"	3/8"
017946	1/2"	3/8"
017947	1/2"	1/2"

### Union Tees



Part #	Tube Size
017920	1/4"
017921	3/8"
017922	1/2"

### Union Elbows



Part #	Tube Size
017931	3/8"
017932	1/2"

### 90° Male Non-Swivel Elbows

(Sealant applied)



Part #	Tube Size	Pipe Size
017960	1/4"	1/8"
017961	1/4"	1/4"
017966	3/8"	1/8"
017962	3/8"	1/4"
017963	3/8"	3/8"
017967	1/2"	1/4"
017964	1/2"	3/8"
017965	1/2"	1/2"

### WARNING!

Velvac's line of push-lock brake fittings and tubing are designed only for use in vehicles where air is utilized as the operating fluid. As such, Velvac's push-lock air brake fittings should only be used in a manner consistent with the manufacturer's specifications.

Using Velvac's push-lock fittings or tubing improperly or in a manner inconsistent with the manufacturer's specifications may result in serious injury or property damage. For example, Velvac's push-lock fittings and tubing are not intended for use in environments exceeding 145 psi and only for temperatures between -45°F and +140°F. Velvac push-lock fittings and tubing are intended for use only as defined in 49CFR571.106.

Further, the U.S. Department of Transportation prohibits the use of push-lock fittings and nylon tubing as a connection between (I) a semi-tractor & trailer, or (II) a drive shaft and chassis.

## NYLON AIR BRAKE TUBE FITTINGS

- Designed for use with nylon air brake tubing
- DOT compliant. Fittings meet SAE J246 requirements
- Brass construction with internal stainless steel tube supports
- Pipe thread sealant featured on several fitting styles

- This pre-applied sealant offers many benefits:
  - » Provides no-leak assembly instantly. Saves application time and expense
  - » Will not contaminate systems such as tape shredding or liquid sealant washout
  - » Can be reused up to five times
  - » Provides excellent thread

### Bulkhead Unions



Part #	Tube Size
016204	1/4"
016206	3/8"
016208	1/2"

**NOTE: Part numbers listed in RED are NEW!**

# FITTINGS & HARDWARE

## NYLON AIR BRAKE TUBE FITTINGS

### 45° Elbows (Sealant applied)



Part #	Tube Size	Pipe Size
017842	1/4"	1/8"
017844	1/4"	1/4"
017862	3/8"	1/8"
017864	3/8"	1/4"
017866	3/8"	3/8"
017868	3/8"	1/2"
017886	1/2"	3/8"
017888	1/2"	1/2"
017884	1/2"	3/4"
017816	5/8"	3/8"
017808	5/8"	1/2"

### Female Connectors



Part #	Tube Size	Pipe Size
016642	1/4"	1/8"
016644	1/4"	1/4"
016662	3/8"	1/8"
016664	3/8"	1/4"
016666	3/8"	3/8"
016686	1/2"	3/8"
016688	1/2"	1/2"
016618	5/8"	1/2"
017816	5/8"	3/8"
017808	5/8"	1/2"

### Tee Thread Branches (Sealant applied)



Part #	Tube Size	Pipe Size
017242	1/4"	1/8"
017244	1/4"	1/4"
017262	3/8"	1/8"
017264	3/8"	1/4"
017266	3/8"	3/8"
017286	1/2"	3/8"
017288	1/2"	1/2"
017218	5/8"	1/2"

### Male Elbows



Part #	Tube Size	Pipe Size
016942	1/4"	1/8"
016944	1/4"	1/4"
016946	1/4"	3/8"
016962	3/8"	1/8"
016964	3/8"	1/4"
016966	3/8"	3/8"
016968	3/8"	1/2"
016984	1/2"	1/4"
016986	1/2"	3/8"
016988	1/2"	1/2"
016916	5/8"	3/8"
016908	5/8"	1/2"
016912	5/8"	3/4"
016918	3/4"	1/2"
016922	3/4"	3/4"

### Elbow End Tubes



Part #	Tube Size
016540	1/4"
016560	3/8"
016580	1/2"
016510	5/8"

### Male Connectors (Sealant applied)



Part #	Tube Size	Pipe Size
016842	1/4"	1/8"
016844	1/4"	1/4"
016846	1/4"	3/8"
016862	3/8"	1/8"
016864	3/8"	1/4"
016866	3/8"	3/8"
016868	3/8"	1/2"
016884	1/2"	1/4"
016886	1/2"	3/8"
016888	1/2"	1/2"
016890	1/2"	3/4"
016806	5/8"	3/8"
016808	5/8"	1/2"
016809	5/8"	3/4"
016818	3/4"	1/2"
016811	3/4"	3/4"

#### Helpful hint

Air brake hose repair fitting kits are part numbers 500007 and 500008



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# FITTINGS & HARDWARE

## NYLON AIR BRAKE TUBE FITTINGS

### Female Elbows



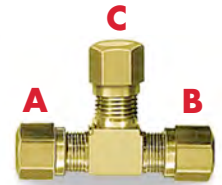
Part #	Tube Size	Pipe Size
017043	1/4"	1/8"
017046	1/4"	1/4"
017064	3/8"	1/4"
017066	3/8"	3/8"
017086	1/2"	3/8"

### Tee Thread Runs



Part #	Tube Size	Pipe Size
017142	1/4"	1/8"
017144	1/4"	1/4"
017164	3/8"	1/4"
017166	3/8"	3/8"
017186	1/2"	3/8"
017188	1/2"	1/2"

### Tee End Tubes



Part #	Tube Size
016440	1/4"
016460	3/8"
016482	A, B: 3/8" C: 1/4"
016480	1/2"
016481	5/8"

### Full Unions



Part #	Tube Size
016240	1/4"
016260	3/8"
016280	1/2"
016200	5/8"
016201	3/4"

### Sleeves



Part #	Tube Size
016340	1/4"
016360	3/8"
016380	1/2"
016300	5/8"
016301	3/4"

### Nuts



Part #	Tube Size
016140	1/4"
016160	3/8"
016180	1/2"
016100	5/8"
016101	3/4"

## AIR BRAKE COMPRESSION FITTINGS

- Designed for use with nylon or copper air brake tubing
- DOT compliant. Fittings meet SAE J246 requirements
- All brass construction
- Pipe thread sealant featured on several fitting styles. This pre-applied sealant offers many benefits:
  - » Provides no-leak assembly instantly. Saves application time and expense
  - » Will not contaminate systems such as tape shredding or liquid sealant
  - » Can be reused up to five times
  - » Provides excellent thread lubrication to prevent galling

### 45° Male Elbows

(Sealant applied)



Part #	Tube Size	Pipe Size
013075	3/8"	1/4"
013076	3/8"	3/8"
013077	1/2"	3/8"

### Male Elbows

(Sealant applied)



Part #	Tube Size	Pipe Size
012067	1/4"	1/8"
012071	1/4"	1/4"
012073	1/4"	3/8"
012087	3/8"	1/8"
012091	3/8"	1/4"
012093	3/8"	3/8"
012095	3/8"	1/2"
012097	1/2"	1/4"
013001	1/2"	3/8"
013003	1/2"	1/2"
013011	5/8"	1/2"

### Compression Nuts



Part #	Tube Size
011013	1/4"
011023	3/8"
011025	1/2"
011027	5/8"

# FITTINGS & HARDWARE

## AIR BRAKE COMPRESSION FITTINGS

### Full Unions



Part #	Tube Size
011033	1/4"
011041	3/8"
011043	1/2"
011045	5/8"
011047	3/4"

### Nylon Tubing Inserts



Part #	Tube Size
010087	1/4"
010089	3/8"
010094	1/2"
010096	5/8"
010098	3/4"

### Female Connectors



Part #	Tube Size	Pipe Size
011093	3/8"	1/4"

### Tee Thread Branches



Part #	Tube Size
011051	1/4"
011057	3/8"
011059	1/2"

### Tee Thread Runs



Part #	Tube Size	Pipe Size
013041	3/8"	1/4"

### Spherical Sleeves



Part #	Tube Size
011001	1/4"
011003	3/8"
011005	1/2"
011007	5/8"
011009	3/4"

Fitting sleeves should NEVER be reused

### Male Connectors (Sealant applied)



Part #	Tube Size	Pipe Size
012017	1/4"	1/8"
012021	1/4"	1/4"
012023	1/4"	3/8"
012035	3/8"	1/8"
012037	3/8"	1/4"
012041	3/8"	3/8"
012043	3/8"	1/2"
012045	1/2"	1/4"
012047	1/2"	3/8"
012049	1/2"	1/2"
012053	5/8"	3/8"
012055	5/8"	1/2"
012061	3/4"	1/2"

### Tee Thread Branches (Sealant applied)



Part #	Tube Size	Pipe Size
013049	1/4"	1/8"
013057	3/8"	1/4"
013060	3/8"	3/8"

## RE-USABLE AIR HOSE FITTINGS

- Designed for use with rubber air brake hose
- Bodies, sleeves and nuts are all brass construction for durability and corrosion resistance
- Zinc-plated steel springs have rounded ends to protect air hose

### Fitting Assemblies



Part #	Hose I.D.	Pipe Size
500001	3/8"	1/2"
500009	3/8"	3/8"
500015	3/8"	1/4"
500050	1/2"	1/2"
500051	1/2"	3/8"

### Swivel Fitting Assemblies



Part #	Hose I.D.	Pipe Size
500039	3/8"	1/4"
500046	3/8"	3/8"
500044	3/8"	1/2"
500094	1/2"	3/8"



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# FITTINGS & HARDWARE

## RE-USABLE AIR HOSE FITTINGS

### Nuts (w/ or w/o spring)



Part #	Type	Hose I.D.
500021	Spring & Nut	3/8"
500071	Spring & Nut	1/2"
500037	Nut Only	1/2"
500022	Nut Only	3/8"
500030	Spring Only	1/2"
500024	Spring Only	3/8"

### Nuts



Part #	Hose I.D.
500004	3/8"
500054	1/2"

### Union Assemblies



Part #	Hose I.D.
500031	3/8"
500088	1/2"

### Fitting Sleeves



Part #	Hose I.D.
500005	3/8"
500055	1/2"

Fitting sleeves should NEVER be reused

### Union Bodies



Part #	Tube Size
500033	3/8"
500041	1/2"

### Fitting Assemblies (w/ spring)



Part #	Hose I.D.	Pipe Size
500019	3/8"	1/2"
500025	3/8"	3/8"
500027	3/8"	1/4"
500070	1/2"	1/2"
500078	1/2"	3/8"

### Swivel Body Adaptors



Part #	Hose I.D.	Pipe Size	Straight Thread
140000	3/8"	1/4"	3/4" - 20
142001	3/8"	3/8"	3/4" - 20
500059	3/8"	1/2"	3/4" - 20
500052	1/2"	3/8"	7/8" - 20
500060	1/2"	1/2"	7/8" - 20

### Dual Barb Male Fitting (Sealant applied)



Part #	Hose Size	Tube Size
500079	1/4"	1/8"
500080	1/4"	1/4"
500081	5/16"	1/4"
500082	3/8"	1/4"
500083	3/8"	3/8"
500084	5/8"	1/2"
500085	3/4"	3/4"

### Firewall Couplings

- Zinc-plated steel construction
- 1/4" FPT both ends
- 3/16" diameter mounting holes on 1-3/8" centers



Part #	Description
501071	Firewall coupling

### Swivel Fitting Assemblies (w/ spring)



Part #	Hose I.D.	Pipe Size
500035	3/8"	1/4"
500042	3/8"	3/8"

### Hose Splicers



Part #	Hose Size
500063	3/8"
500064	1/2"
500065	5/8"
500066	3/4"

### Fitting Bodies



Part #	Hose I.D.	Pipe Size
500003	3/8"	1/2"
500011	3/8"	3/8"
500017	3/8"	1/4"
500053	1/2"	1/2"
500061	1/2"	3/8"

### Frame Couplings

- Zinc-plated steel construction
- FPT both ends

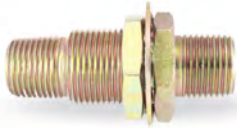


Part #	Frame	Overall Length	Thread
035081	1/4"	1-1/2"	3/4" - 16
035087	3/8"	1-3/8"	1" - 14

# FITTINGS & HARDWARE

## CLAMPING STUDS

### Male Clamping Studs



- Zinc-plated steel construction
- 1/2" MPT each end, 1/4" FPT one end
- 1" - 14 mounting thread
- 2-3/8" overall length

Part #	Description
035021	Male clamping stud

### Female Clamping Studs



- Zinc-plated steel construction
- 1/2" MPT, 1/4" FPT one end and 1/2" FPT other end
- 1-1/4" mounting thread
- 2-1/4" overall length

Part #	Description
035029	Female clamping stud

### Frame Clamping Studs



- Zinc-plated steel construction
- 1/2" MPT one end, 3/8" FPT one end
- 1-1/4" mounting thread
- 1-7/8" overall length

Part #	Description
035079	Male clamping stud

### Bulkhead Fittings: Female to Nylon Tubing

- 3/8" NPTF thread



Part #	Tube Size
017098	1/2"
017099	3/8"

### Bulkhead Fittings with Spring



Part #	Tube Size
500096	3/8"

## VACUUM HOSE FITTINGS

### Nipples



Part #	Hose Size	Tube Size
149005	1/2"	1/2"
149006	3/4"	1/2"

## DISCHARGE HOSE FITTINGS

- Designed for use with stainless steel braided discharge hose
- All brass bodies with brass sleeves and steel nuts

### Fitting Sleeves



5/8" O.D. Part #	3/4" O.D. Part #	Type
142104	-	Sleeve
142108	142109	Nut

### Straight Tubes



Part #	Hose O.D.
142102	5/8"
142103	3/4"

### Male Pipe Fittings



Part #	Hose O.D.	Pipe Thread
142101	5/8"	1/2" - 14

### Compression Fittings



Part #	Hose O.D.	Male Thread
142106	5/8"	13/16" - 18
142107	3/4"	1" - 18

### Female Swivel Fittings



Part #	Hose O.D.	Female Thread
142110	5/8"	7/8" - 14
142111	3/4"	1-1/16" - 14



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# FITTINGS & HARDWARE

## FULLER TRANSMISSION COMPRESSION FITTINGS

- Designed for use with polyethylene nylon and plastic tubing  
NOT FOR AIR BRAKE USE

- All brass construction

### Sleeves



Part #	Tube Size
010093	3/16"

### Male Connectors



Part #	Tube Size	Pipe Size
012016	1/8"	1/16"
012015	3/16"	1/8"
012012	5/32"	1/16"
012014	5/32"	1/8"
012022	1/8"	1/8"

### Male Elbows



Part #	Tube Size	Pipe Size
012069	1/8"	1/8"
012064	5/32"	1/8"
012066	1/8"	1/8"
012068	3/16"	1/8"

### Nuts



Part #	Tube Size
011012	1/8"
011014	3/16"
011016	5/32"

### Slotted Collets



Part #	Tube Size
011000	1/8"
011020	5/32"

### Insert



Part #	Tube Size
010085	3/16"

### Full Unions



Part #	Tube Size
011032	1/8"
011034	5/32"

## INVERTED FLARE FITTINGS

- Designed for use with flareable copper, brass, aluminum and welded steel hydraulic tubing
- All brass construction (unless otherwise noted)
- UL compliant for flammable liquid and gas
- Fittings meet SAE J246 requirements
- DOT compliant

### Male Connectors



Part #	Tube Size	Pipe Size	Straight Thread
006842	1/4"	1/8"	7/16" - 24
006852	5/16"	1/8"	1/2" - 20
006854	5/16"	1/4"	1/2" - 20
006864	3/8"	1/4"	5/8" - 18
006866	3/8"	3/8"	5/8" - 18
006886	1/2"	3/8"	3/4" - 18

### Male Elbows



Part #	Tube Size	Pipe Size	Straight Thread
006942	1/4"	1/8"	7/16" - 24

### Nuts



- Brass construction

Part #	Tube Size	Straight Thread
006103	3/16"	3/8" - 24
006104	1/4"	7/16" - 24
006106	3/8"	5/8" - 10

- Plated steel construction

Part #	Tube Size	Straight Thread
006304	1/4"	7/16" - 24
006305	5/16"	1/2" - 24

### Female Connectors



Part #	Tube Size	Pipe Size	Straight Thread
006642	1/4"	1/8"	7/16" - 24
006664	3/8"	1/4"	5/8" - 18

### Unions



Part #	Tube Size	Straight Thread
006203	3/16"	3/8" - 24
006204	1/4"	7/16" - 24
006205	5/16"	1/2" - 20
006206	3/8"	5/8" - 18

# FITTINGS & HARDWARE

## PIPE FITTINGS

### Pipe Crosses



Part #	Pipe Size	Material
017075	1/4"	Brass
017077	3/8"	Brass
017078	1/2"	Brass

### Close Nipples



Part #	Pipe Size	Material
016051	1/8"	Brass
016052	1/4"	Brass
016053	3/8"	Brass
016054	1/2"	Brass
016065	3/4"	Malleable iron

### Caps

(Female Pipe Fittings)



Part #	Pipe Size
017223	1/8"
017224	1/4"
017225	3/8"
017226	1/2"
017227	3/4"

### Hex Nipples



Part #	Pipe Size	Material
018009	1/8"	Brass
018010	1/4"	Brass
018011	3/8"	Brass
018012	1/2"	Brass
018023	3/4"	Plated steel

### Male Branch Tees



Part #	Pipe Size	Material
016014	1/8"	Brass
016015	1/4"	Brass
016016	3/8"	Brass
016017	1/2"	Brass

### Pipe Elbows



Part #	Pipe Size	Material
017003	1/8"	Brass
017004	1/4"	Brass
017005	3/8"	Brass
017006	1/2"	Brass

### 45° Street Elbows



Part #	Pipe Size	Material
017023	1/8"	Brass
017025	1/4"	Brass
017027	3/8"	Brass
017029	1/2"	Brass

### Pipe Tees



Part #	Pipe Size	Material
016001	1/8"	Brass
016002	1/4"	Brass
016003	3/8"	Brass
016004	1/2"	Brass
016005	3/4"	Brass

### Pipe Nipples



• Brass

Part #	Pipe Size	Length
016021	1/8"	1-1/2"
016025	1/4"	1-1/2"
016029	3/8"	1-1/2"
016033	1/2"	1-1/2"
016044	1/4"	2 1/2"
016045	3/8"	2 1/2"
016046	3/8"	3"
016047	3/4"	2 1/2"

• Malleable Iron

Part #	Pipe Size	Length
016037	1/8"	2"
016038	1/4"	2"
016039	3/8"	2"
016040	1/2"	2"
016041	1/2"	3"
016042	3/4"	2"
016043	3/4"	3"

### Reducer Bushings



• Brass

Part #	Pipe Size	Material
016079	1/4" x 1/8"	Brass
016089	1/4" x 1"	Brass
016080	3/8" x 1/8"	Brass
016081	3/8" x 1/4"	Brass
016082	1/2" x 1/8"	Brass
016083	1/2" x 1/4"	Brass
016084	1/2" x 3/8"	Brass
016088	1/2" x 1"	Brass
016085	3/4" x 1/4"	Brass
016086	3/4" x 3/8"	Brass
016087	3/4" x 1/2"	Brass
017000	1" x 3/4"	Malleable iron



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# FITTINGS & HARDWARE

## PIPE FITTINGS

### Street Tees



Part #	Pipe Size	Material
017091	1/8"	Brass
017093	1/4"	Malleable iron
017095	3/8"	Malleable iron
017096	1/2"	Malleable iron
017094	3/4"	Brass

### Street Elbows

- Brass construction



Part #	Pipe Size	Material
017015	1/8"	Brass
017039	1/4" x 1/8"	Brass
017017	1/4"	Brass
017019	3/8"	Brass
017021	1/2"	Brass
017031	3/4"	Brass

### Hex Head Plugs



Part #	Pipe Size	Material
017051	1/8"	Brass
017053	1/4"	Brass
017055	3/8"	Brass
017057	1/2"	Brass
017056	3/4"	Brass
017058	1"	Brass

### Square Head Plugs



Part #	Pipe Size	Material
017061	1/8"	Brass
017063	1/4"	Brass
017065	3/8"	Brass
017067	1/2"	Brass
017069	3/4"	Brass
017059	3/4"	Brass
017072	1"	Brass

### Reducer Couplings



Part #	Pipe Size	Material
017081	1/4" x 1/8"	Brass
017083	3/8" x 1/4"	Brass
017089	1/2" x 1/4"	Brass
017085	1/2" x 3/8"	Brass
017090	3/4" x 1/2"	Brass

### Reducer Hex Nipples



Part #	Pipe Size	Material
018013	1/4" x 1/8"	Brass
018030	3/8" x 1/8"	Brass
018025	3/8" x 1/4"	Plated steel
018026	1/2" x 1/4"	NPTF
018027	1/2" x 3/8"	Plated steel
018029	3/4" x 1/2"	Plated steel

### Counter-Sunk Plugs



Part #	Pipe Size	Material
017106	1/8"	Brass
017107	1/4"	Brass
017108	3/8"	Brass
017109	1/2"	Brass
017110	3/4"	Brass

### Couplings



Part #	Pipe Size	Material
016067	1/8"	Brass
016068	1/4"	Brass
016069	3/8"	Brass
016070	1/2"	Brass
016077	3/4"	Malleable iron

### Adapters



Part #	Pipe Size	Material
018034	1/8" x 1/8"	Brass
018006	1/4" x 1/8"	Brass
018035	1/4" x 1/4"	Brass
018007	3/8" x 1/4"	Brass
018036	3/8" x 1/8"	Brass
018037	3/8" x 3/8"	Brass
018008	1/2" x 3/8"	Brass
018038	3/4" x 1/2"	Brass

### Slotted Plugs



Part #	Pipe Size	Material
017101	1/8"	Brass
017102	1/4"	Brass
017103	3/8"	Brass

# FITTINGS & HARDWARE

## SAE 45° FLARE FITTINGS

- Designed for use with flareable copper, brass, aluminum and welded steel hydraulic tubing
- All brass construction
- UL compliant for flammable liquid and gas
- Fittings meet SAE J246 requirements

### Hose Barb to Female Flare Swivels



Part #	Tube Size	Hose Size
016945	3/8"	3/8"
016948	1/4"	1/4"

### Male Connectors



Part #	Tube Size	Pipe Size	Straight Thread
014822	1/8"	1/8"	5/16" - 24
014832	3/16"	1/8"	3/8" - 24
014842	1/4"	1/8"	7/16" - 20
014844	1/4"	1/4"	7/16" - 20
014210	1/4"	3/8"	7/16" - 20
014211	3/8"	3/4"	5/8" - 18
014852	5/16"	1/8"	1/2" - 20
014854	5/16"	1/4"	1/2" - 20
014862	3/8"	1/8"	5/8" - 18
014864	3/8"	1/4"	5/8" - 18
014866	3/8"	3/8"	5/8" - 18
014868	3/8"	1/2"	5/8" - 18
014884	1/2"	1/4"	3/4" - 16
014886	1/2"	3/8"	3/4" - 16
014212	5/8"	3/4"	7/8" - 14
014888	1/2"	1/2"	3/4" - 16
014806	5/8"	3/8"	7/8" - 14
014808	5/8"	1/2"	7/8" - 14
014818	3/4"	1/2"	1-1/16"-14
014811	3/4"	3/4"	1-1/16"-14

### Unions



Part #	Tube Size	Straight Thread
014204	1/4"	7/16" - 20
014206	3/8"	5/8" - 18
014208	1/2"	3/4" - 16
014200	5/8"	7/8" - 14
014209	3/4"	1 1/16" - 14

### Male Elbows



Part #	Tube Size	Pipe Size	Straight Thread
014942	1/4"	1/8"	7/16" - 20
014944	1/4"	1/4"	7/16" - 20
014946	1/4"	3/8"	7/16" - 20
014952	5/16"	1/8"	1/2" - 20
014962	3/8"	1/8"	5/8" - 18
014964	3/8"	1/4"	5/8" - 18
014966	3/8"	3/8"	5/8" - 18
014968	3/8"	1/2"	5/8" - 18
014984	1/2"	1/4"	3/4" - 16
014986	1/2"	3/8"	3/4" - 16
014988	1/2"	1/2"	3/4" - 16
014906	5/8"	3/8"	7/8" - 14
014908	5/8"	1/2"	7/8" - 14
014918	3/4"	1/2"	1-1/16"-14
014911	3/4"	3/4"	1-1/16"-14

### 45° Elbows



Part #	Tube Size	Pipe Size	Straight Thread
015942	1/4"	1/8"	7/16" - 20
015944	1/4"	1/4"	7/16" - 20
015964	3/8"	1/4"	5/8" - 18
015966	3/8"	3/8"	5/8" - 18
015986	1/2"	3/8"	3/4" - 16
015988	1/2"	1/2"	3/4" - 16
015906	5/8"	3/8"	7/8" - 14
015908	5/8"	1/2"	7/8" - 14

### Long Nuts



Part #	Tube Size	Straight Thread
014106	3/8"	5/8" - 18

### Cap Nuts



Part #	Tube Size	Straight Thread
014216	3/8"	5/8" - 18
014217	1/2"	3/4" - 16
014218	5/8"	7/8" - 14



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# FITTINGS & HARDWARE

## INVERTED FLARE FITTINGS

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- All brass construction (unless otherwise noted)
- UL compliant for flammable liquid and gas
- Fittings meet SAE J246 requirements
- DOT compliant

### Male Connectors



Part #	Tube Size	Pipe Size	Straight Thread
006842	1/4"	1/8"	7/16" - 24
006852	5/16"	1/8"	1/2" - 20
006854	5/16"	1/4"	1/2" - 20
006864	3/8"	1/4"	5/8" - 18
006866	3/8"	3/8"	5/8" - 18
006886	1/2"	3/8"	3/4" - 18

### Female Connectors



Part #	Tube Size	Pipe Size	Straight Thread
006642	1/4"	1/8"	7/16" - 24
006664	3/8"	1/4"	5/8" - 18

### Nuts



Part #	Tube Size	Straight Thread	Material
006103	3/16"	3/8" - 24	Brass
006104	1/4"	7/16" - 24	Brass
006106	3/8"	5/8" - 10	Brass
006304	1/4"	7/16" - 24	Plated steel
006305	5/16"	5/16" - 24	Plated steel

### Unions



Part #	Tube Size	Straight Thread
006203	3/16"	3/8" - 24
006204	1/4"	7/16" - 24
006205	5/16"	1/2" - 20
006206	3/8"	5/8" - 18

### Male Elbows



Part #	Tube Size	Pipe Size	Straight Thread
006942	1/4"	1/8"	7/16" - 24

## TRUCK & TRAILER REPAIR KITS

### Transmission Air Line Repair Kit

- 11 total fittings

Part #	Description	Qty.
016112	1/8 x 1/8" Male connector	1
016120	5/32 x 1/16" Male connector	2
016122	5/32 x 1/8" Male connector	2
016212	1/8 x 1/8" Male connector	1
016222	5/32 x 1/8" Male connector	1
016610	1/8" Union	1
016620	5/32" Union	1
016630	3/16" Union	1
090028	Nylon tube cutter	1

### Nylon Air Brake Tube Fitting Kit

- 33 total fittings

Part #	Description	Qty.
016240	1/4" Full union	2
016260	3/8" Full union	2
016280	1/2" Full union	2
016200	5/8" Full union	2
016842	1/4 x 1/8" Male connector	2
016844	1/4 x 1/4" Male connector	3
016864	3/8 x 1/4" Male connector	2
016866	3/8 x 3/8" Male connector	1

**NOTE:** See next page for kit part numbers

Part #	Description	Qty.
016886	1/2 x 3/8" Male connector	1
016942	1/4 x 1/8" Male elbow	2
016944	1/4 x 1/4" Male elbow	3
016964	3/8 x 1/4" Male elbow	2
016966	3/8 x 3/8" Male elbow	3
016986	1/2 x 3/8" Male elbow	2
016988	1/2 x 1/2" Male elbow	2

# FITTINGS & HARDWARE

## TRUCK & TRAILER REPAIR KITS



Part #	Description
690031	In-Cab Air Line Repair Kit - Push Lock
690033	Air Brake Line Repair Kit - Push Lock
690035	Nylon Tubing Repair Kit - Push Lock
690037	Transmission Air Line Repair Kit - Push Lock
690050	NTA Fitting Kit

### In-Cab Air Line Repair Kit

- 24 total fittings

Part #	Description	Qty.
016112	1/8 x 1/8" Male connector	2
016114	1/8 x 1/4" Male connector	2
016142	1/4 x 1/8" Male connector	2
016144	1/4 x 1/4" Male connector	2
016162	3/8 x 1/8" Male connector	1
016164	3/8 x 1/4" Male connector	1
016242	1/4 x 1/8" Elbow	1
016244	1/4 x 1/4" Elbow	1
016264	3/8 x 1/4" Elbow	1
016610	1/8" Union	2
016630	3/16" Union	2
016640	1/4" Union	2
016660	3/8" Union	1
016910	1/8" Tee	1
016930	3/16" Tee	1
016940	1/4" Tee	1
016960	3/8" Tee	1

### Air Brake Line Repair Kit

- 24 total fittings

Part #	Description	Qty.
016166	3/8 x 3/8" Male connector	2
016168	3/8 x 1/2" Male connector	1
016184	1/2 x 1/4" Male connector	1
016268	3/8 x 1/2" Male connector	1
016284	1/2 x 1/4" Male connector	1
016286	1/2 x 3/8" Male connector	1
016186	1/2 x 3/8" Male connector	2
016188	1/2 x 1/2" Male connector	1
016660	3/8" Union	2
016680	1/2" Union	2
016266	3/8 x 3/8" Elbow	2
016288	1/2 x 1/2" Elbow	1
016960	3/8" Tee	2
016980	1/2" Tee	2

### Nylon Tubing Repair Kit

Part #	Description	Qty.
020132	1/8" Blue nylon tubing	2'
020065	5/32" Black nylon tubing	2'
020066	3/16" Black nylon tubing	2'
020164	1/4" Yellow nylon tubing	2'
020156	3/8" Red nylon tubing	2'
020168	1/2" Yellow nylon tubing	2'
016610	1/8" Union	2
016620	5/32" Union	2
016630	3/16" Union	2
016640	1/4" Union	2
016660	3/8" Union	2
016680	1/2" Union	2
090014	7" Nylon tie straps	12
090028	Nylon tube cutter	1



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## FITTING ASSORTMENTS

### Large Air Brake Fitting Assortment

- Assortment includes the following part numbers and quantities plus rack 690090 (in [RETAIL](#) section)

Part #	Total Fittings
690059	583

Part #	Quantity
010087	50
010089	50
010094	25
010096	25
010098	25
011001	25
011003	50
011005	25
011007	10
011009	10
011013	25
011023	15
011025	5
011027	3
011029	3
011033	10

Part #	Quantity
011041	15
011043	10
011045	3
011047	2
011057	5
011059	3
011073	5
012017	10
012021	10
012035	5
012037	20
012041	10
012043	5
012045	10
012047	10
012049	5

**NOTE**  
See previous pages for fitting photos and descriptions.

Part #	Quantity
012053	3
012055	3
012067	10
012071	10
012087	5
012091	20
012093	5
012095	5
012097	5
013001	10
013003	5
013011	3
013041	5
013057	5
013075	5
690090	1

### Push-Lock Fitting Assortment

- Assortment includes the following part numbers and quantities plus rack 690090 (in [RETAIL](#) section)

Part #	Total Fittings
690072	155



Part #	Quantity
016112	5
016114	5
016120	5
016122	5
016142	5
016144	5
016162	5
016164	5
016166	5
016168	5

Part #	Quantity
016184	5
016186	5
016188	5
016242	5
016244	5
016264	5
016266	5
016268	5
016284	5
016286	5
016288	5

Part #	Quantity
016610	5
016620	5
016630	5
016640	5
016660	5
016680	5
016930	5
016940	5
016960	5
016980	5
690090	1

# FITTINGS & HARDWARE

## FITTING ASSORTMENTS

### Nylon Air Brake Tube Fitting Assortment

- Assortment includes the following part numbers and quantities plus rack 690090 (in RETAIL section)

Part #	Total Fittings
690071	304



Part #	Quantity
016100	3
016101	3
016140	25
016160	10
016180	5
016200	3
016201	2
016240	10
016260	5
016280	5
016300	10
016301	10
016340	25
016360	25

Part #	Quantity
016380	25
016808	3
016818	2
016842	10
016844	10
016862	5
016864	5
016866	5
016884	5
016886	5
016888	5
016908	3
016916	5
016918	2

Part #	Quantity
016922	5
016942	10
016944	10
016962	5
016964	5
016966	5
016968	5
016984	5
016986	5
016988	5
017264	5
017266	5
017286	3
690090	1

### Brass Pipe Fitting Assortment

- Assortment includes the following part numbers and quantities plus rack 690090 (in RETAIL section)

Part #	Total Fittings
690064	340



Part #	Quantity
016001	5
016002	5
016003	5
016004	5
016051	10
016052	20
016053	20
016054	5
016067	10
016068	10
016069	5
016070	5

Part #	Quantity
016079	10
016080	10
016081	30
016083	5
016084	5
016087	5
017015	5
017017	5
017019	5
017021	5
017023	5
017025	5
017027	5

Part #	Quantity
017029	5
017051	10
017053	20
017055	20
017057	5
018006	10
018007	10
018008	10
018009	10
018010	20
018011	10
018012	5
690090	1



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# FITTINGS & HARDWARE

## HOSE CLAMPS AND COOLANT VALVES

### Miniature/General Purpose Slotted/Liner/EuroSeal® Clamps

- All clamps feature 300 series stainless steel bands
- Miniature, general purpose and liner clamps include yellow dichromate slotted hex head screws. Euro-Seal® clamps feature 300 series stainless steel screws



Miniature clamps ideal for use on air and fuel lines



General purpose slotted clamps meet applicable SAE J1508 requirements

Miniature Clamps	General Purpose Slotted Clamps	Liner Clamps	Euro-Seal® Clamps	SAE Size	Clamping Range (in.)
022204	-	-	-	4	7/32 – 5/8
022206	022306	022106	022506	6	5/16 – 5/8
-	022308	022108	022508	8	1/2 – 55/64
-	022310	022110	022510	10	5/8 – 1-1/16
-	022312	022112	022512	12	3/4 – 1-1/4
-	022316	022116	022516	16	1 – 1-5/8
-	022320	022120	022520	20	1-11/64 – 1-3/4
-	022324	022124	022524	24	1-1/4 – 2
-	022328	022128	022528	28	1-5/8 – 2-3/8
-	022332	022132	022532	32	1-3/4 – 2-1/2
-	022336	022136	022536	36	2 – 2-3/4
-	022340	022140	022540	40	2-5/32 – 2-15/16
-	022344	022144	022544	44	2-3/8 – 3-1/8
-	022348	022148	022548	48	2-3/4 – 3-1/2
-	022352	-	-	52	2-13/16 – 3-3/4
-	022356	-	022556	56	3-1/8 – 4
-	022360	-	-	60	3-1/2 – 4-3/8
-	022364	-	022564	64	4 – 4-3/4
-	022372*	-	022572	72	4-3/8 – 5-1/8
-	022380*	-	022680	80	4-3/4 – 5-1/2
-	022388*	-	022688	88	5-1/8 – 5-7/8
-	022396*	-	-	96	5-9/16 – 6-1/2
-	022404*	-	022574	104	6-1/4 – 7-5/64

\*These clamps may be made smaller than the clamping range shows in the table. Following are the smallest diameters for each of these clamps in the order shown on the chart: 1-7/8", 2-1/2", 3-1/8", 3-5/8", 4-1/8"



Euro-Seal® clamps with embossed threads and rounded band edge help eliminate hose abrasion and damage. Clamps meet or exceed international specifications for material, corrosion resistance, sizing and torque



Liner clamps designed with inner liner to protect silicone hose from extruding through band slots; unique construction allows more tightening torque to the perforations while maximizing vibration resistance

Euro-Seal® is a registered trademark of Breeze Industrial Products

# FITTINGS & HARDWARE

## HOSE CLAMPS AND COOLANT VALVES

### Spring Loaded T-Bolt Clamps

- Eliminates "cold flow hose leaks" by automatically adjusting diameter for hose compression set or expansion/contraction of hose and fittings due to temperature changes
- Recommended for bus, truck and heavy-duty equipment air intake and coolant connectors
- 300 series stainless steel band, floating bridge liner and trunion
- Yellow dichromate plated steel bolt, spring, washer and 1/2" lock-nut
- Clamps meet applicable SAE J1508 requirements



Part #	Clamping Range (mm)	Clamping Range (in.)
022580	57 - 65	2-1/4 - 2-9/16
022581	67 - 77	2-3/4 - 3-1/16
022582*	78 - 86	3-1/16 - 3-3/8
022583	87 - 95	3-7/16 - 3-3/4
022584*	90 - 98	3-9/16 - 3-7/8
022585	98 - 106	3-7/8 - 4-3/16
022626*	103 - 111	4-1/16 - 4-3/8
022586	106 - 114	4-3/16 - 4-1/2
022627*	116 - 124	4-9/16 - 4-7/8

\* Designed for change-air cooling

### T-Bolt Clamps

- Applications include engine air intake, exhaust, hoses, filters and low pressure hydraulic connections
- 300 series stainless steel band, floating bridge liner and trunion
- Yellow dichromate plated steel bolt and 7/16" locknut
- Clamps meet applicable SAE J1508 requirements



Part #	Clamping Range (mm)	Clamping Range (in.)
022550	63 - 71	2-1/2 - 2-13/16
022551	67 - 77	2-3/4 - 3-1/16
022587	76 - 84	3 - 3-5/16
022588	83 - 90	3-1/4 - 3-9/16
022589	87 - 98	3-7/16 - 3-7/8
022591	95 - 103	3-3/4 - 4-1/16
022592	108 - 116	4-1/4 - 4-9/16
022593	121 - 128	4-3/4 - 5-1/16
022557	133 - 141	5-1/4 - 5-9/16
022594	146 - 154	5-3/4 - 6-1/16
022596	159 - 166	6-1/4 - 6-9/16
022597	184 - 192	7-1/4 - 7-9/16
022598	216 - 223	8-1/2 - 8-13/16



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## HOSE CLAMPS AND COOLANT VALVES

### Constant-Torque® Clamps

- Patented Belleville spring design eliminates "cold flow hose leaks" by automatically adjusting diameter for hose compression set or expansion/contraction of hose and fittings due to temperature changes
- Specified by many top fleets for new vehicle installations
- Recommended for bus, truck and heavy-duty equipment air intake and coolant connections
- Extended inner liner covers worm gear slots to protect against extrusions and damage
- All stainless steel construction
- Extended adjustment range permits fewer stocked parts

**NOTE:** For proper installation, the Belleville spring washer stacks should be nearly collapsed flat and the screw tip should extend beyond 1/4". Using a torque wrench, tighten to recommended torque range

Part #	Clamping Range (mm)	Clamping Range (in.)
Torque rated at 30-70 in./lb.		
022410	14 – 27	9/16 – 1-1/16
022412	17 – 32	11/16 – 1-1/4
022416	21 – 38	13/16 – 1-1/2
022420	21 – 44	13/16 – 1-3/4
022424	27 – 51	1-1/16 – 2
Torque rated at 40-125 in./lb.		
022400	32 – 54	1-1/4 – 2-1/8
022425	45 – 67	1-3/4 – 2-5/8
022430	57 – 79	2-1/4 – 3-1/8
022435	70 – 92	2-3/4 – 3-5/8
022440	83 – 105	3-1/4 – 4-1/8
022445	95 – 118	3-3/4 – 4-5/8
022450	108 – 130	4-1/4 – 5-1/8

### Hi-Torque® Clamps

- Heavy gauge housing engineered so eight screw threads are simultaneously engaged to provide over four times the recommended SAE torque requirements of standard worm drive clamps
- All stainless steel construction
- Extended diameter ranges allow coverage from 1-1/4" to 9-1/8" with only four clamps
- Clamps exceed applicable SAE J1508 requirements

Part #	Clamping Range (mm)	Clamping Range (in.)
022462	32 – 67	1-1/4 – 2-5/8
022463	54 – 105	2-1/8 – 4-1/8
022464	102 – 156	4 – 6-1/8
022465	156 – 232	6-1/8 – 9-1/8



Constant-Torque® clamp



Hi-Torque® clamp

Constant-Torque® and Hi-Torque® are registered trademarks of Breeze Industrial Products

# FITTINGS & HARDWARE

## HOSE CLAMPS AND COOLANT VALVES

### Muffler Clamps/Saddle Clamps

- Heavy duty clamp with round 3/8-16
- Zinc plated for corrosion protection
- Complete with grade 2 serrated flange nuts
- Individually packaged

Part #	Size
022048	1.75"
022049	2"
022050	2.5"
022051	3"
022052	3.5"
022053	4"
022054	4.5"
022055	5"



Muffler/saddler clamp

### Flat Band Clamp

- Manufactured with a stainless steel band for corrosion protection
- Clamp assembly consists of a stainless steel band with one spacer, two bolts and one reaction block pre-attached to band with one spacer and two nuts packaged with the band

Part #	Size
022059	4"
022060	5"



Flat band clamp

### Guillotine Style Clamp

- Heavy-duty guillotine clamps are manufactured with a round 3/8 - 16 u-bolt and are zinc plated for corrosion protection
- Clamp contains a reinforced rib design for enhanced strength
- Packaged individually in a poly bag
- Complete with grade 2 serrated flange nuts

Part #	Size
022056	4"
022057	4.5"
022058	5"



Guillotine style clamp



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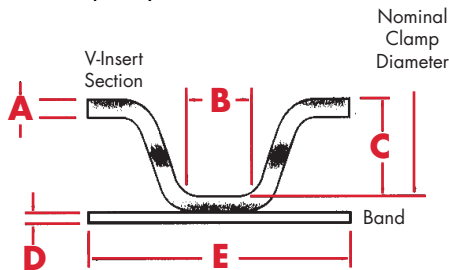


## HOSE CLAMPS AND COOLANT VALVES

### Turbo V-Band Clamp

Part #	Nominal (in.)	Clamp Dimensions (in.)					Application
		A	B	C	D	E	
022470	3.82	.077	.207	.281	.040	.875	CAT, DDC, Ford, GMC, Navistar
022471	3.88	.050	.400	.281	.040	.875	Cummins, Ford, Volvo
022472	4.50	.077	.207	.281	.040	.875	DDC, GMC, Navistar
022473	4.61	.050	.156	.218	.035	.750	Mack, Switzer
022474	4.75	.077	.158	.310	.040	.875	Cummins, CAT, Freightliner, GMC, Navistar, Volvo, Western Star
022475	5.25	.050	.262	.141	.035	.750	DDC, Navistar, Freightliner
022476	5.88	.050	.400	.281	.040	.875	Cummins, DDC, CAT
022477	4.50	.050	.262	.141	.035	.750	Navistar
022478	3.21	.050	.262	.141	.035	.750	Cummins, Freightliner, Blue Bird bus, Ford, Oshkosh

- Clamps connect vehicle exhaust pipe flange to turbo or engine manifold
- Built to withstand high temperatures produced by heavy-duty engines and turbos
- All stainless steel construction
- Clamps meet or exceed OEM standards for material and quality



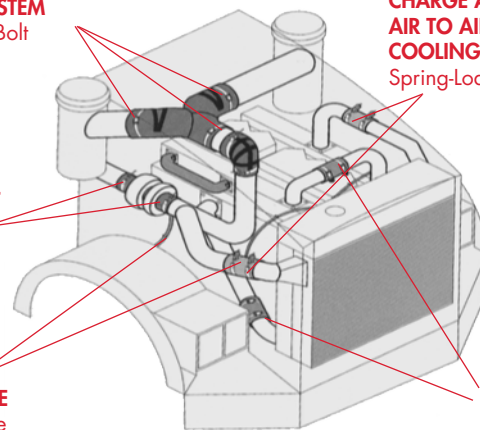
**AIR INTAKE SYSTEM**  
Hi-Torque or T-Bolt

**TURBO EXHAUST MANIFOLD**  
V-Bolt

**FUEL LINE**  
Miniature

**CHARGE AIR COOLING, AIR TO AIR AFTER-COOLING SYSTEM**  
Spring-Loaded T-Bolt

**COOLANT SYSTEM**  
Constant Torque or Hi-Torque



### Coolant Shutoff Valves

- All brass construction

Part #	O.D.	Pipe Size
023066	3/8"	3/8"
023106	5/8"	3/8"
023108	5/8"	1/2"
023126	3/4"	3/8"
023128	3/4"	1/2"

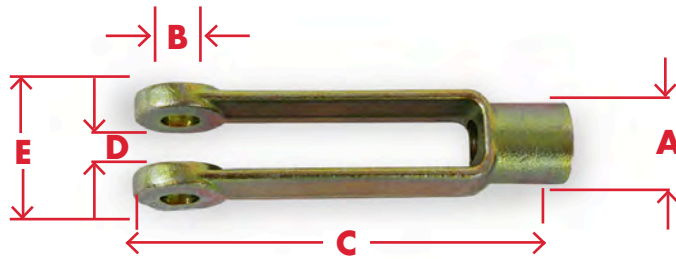


# FITTINGS & HARDWARE

## CLEVIS AND CLEVIS PINS

### Clevis

- Forged steel construction
- Zinc-plated for corrosion resistance



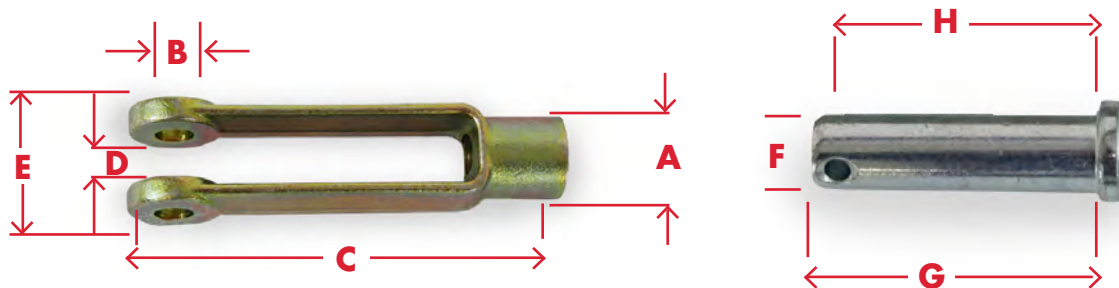
Part #	A	B	C	D	E
019003	5/16" - 24	5/16"	2-1/4"	11/32"	3/4"
019004	3/8" - 24	3/8"	2-1/2"	7/16"	7/8"
019006	1/2" - 20	1/2"	3"	9/16"	1-1/8"
019009	1/2" - 20	1/2"	1-7/8"	9/16"	1-1/4"
019011	5/8" - 18	1/2"	1-7/8"	9/16"	1-1/4"
019013	5/8" - 18	1/2"	2-5/16"	9/16"	1-1/2"
019015	5/8" - 18	5/8"	4-15/16"	11/16"	1-3/8"
019017	5/8" - 18	5/8"	2-5/16"	9/16"	1-1/2"

### Clevis and Clevis Pin Kits

- Each kit includes one yoke, clevis pin and cotter pin
- Forged steel construction
- Zinc-plated for corrosion resistance

Part #	A	B	C	D	E	F	G	H
019049	5/8" - 18	1/2"	1-7/8"	9/16"	1-1/4"	1/2"	1-1/2"	1-3/8"
019050	1/2" - 20	1/2"	1-7/8"	9/16"	1-1/4"	1/2"	1-1/2"	1-3/8"
019051	5/8" - 18	1/2"	4-15/16"	9/16"	1-1/4"	1/2"	1-5/8"	1-3/8"
019088*	5/8" - 18	1/2"	1-7/8"	9/16"	1-1/4"	1/2"	1-1/2"	1-11/32"

\*Includes 3/8" x 1/4" reducer bushing and 5/8" - 18 hex nut

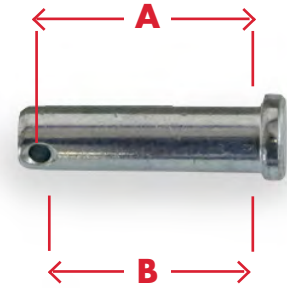


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### Standard Clevis Pin

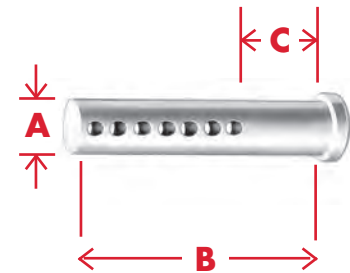
Part #	Nominal Size	A	B
019057	1/4	0.672"	0.633"
019059	5/16	0.812"	0.757"
019061	3/8	0.938"	0.883"
019065	1/2	1.203"	1.133"
019067	1/2	1.343"	1.273"
019069	1/2	1.593"	1.523"
019071	5/8	1.453"	1.383"
019073	5/8	1.593"	1.523"



### Universal Clevis Pin

- Each includes cotter pin

Part #	A	B	C
019058	1/4"	2"	17/32"
019060	5/16"	2"	9/16"
019062	3/8"	2"	17/32"
019064	7/16"	2"	9/16"
019070	1/2"	2"	9/16"
019072	5/8"	3"	9/32"



\*Holes are spaced at 1/4" intervals

## THE VELVAC DIFFERENCE

In the passing  
lane since 1934.



Velvac is TS 16949 &  
ISO 14001 certified.



For over 80 years **Velvac** has been providing high quality, innovative products with a focus on safety, value and great customer service. We stay out in front to help you stay ahead of your competition — that's what being in the passing lane is all about.



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**OUR PARTS PUT YOU IN THE PASSING LANE**

# FUEL SYSTEMS

## Protect your fuel system.

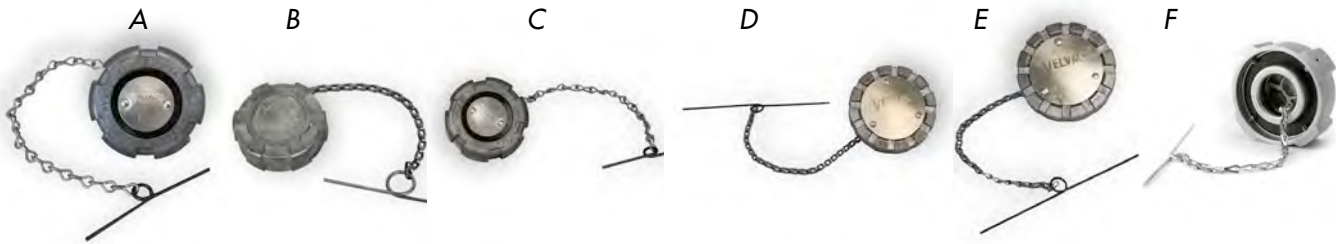
Velvac offers a wide range of locking fuel caps and anti-siphon tubes to keep unlawful occurrences at bay. With OEM approved designs and patented locking features, Velvac has your back.

- Fuel caps
- Anti-siphon tubes
- Tank valves

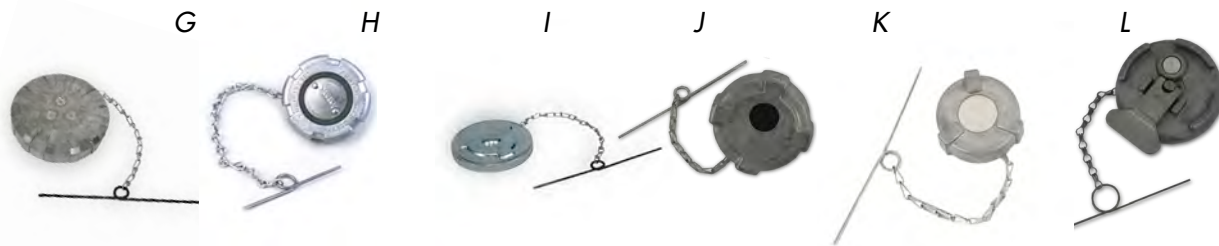


# FUEL SYSTEMS

## ALUMINUM NON-LOCKING FUEL CAPS — Designed for Diesel Fuel Applications



Part #	Photo	Type	V	T/R	P/R	Nominal Size	Threads Per Inch	Across Cap	Threads Filler Neck
600135	A	Female	•	•	•	2"	11-1/2 NPSH	2-1/4"	2-1/4"
600198	B	Female	-	•	-	2"	11-1/2 NPSH	2-1/4"	2-1/4"
600136	C	Female	•	•	•	2"	8 UN 2B	2-1/4"	2-1/4"
600186	D	Female Replaces Freightliner A03-12927-4 and Kenworth K071-398**	•	•	•	3-1/2"	5-1/2	3-3/8"	3-1/2"
600184	E	Female Replaces Freightliner A03-15682-4 and Western Star 43301-3401*	•	•	•	3"	8 NPSL	3.37"	3.37"
600148	F	Female, 1/4 Turn Replaces Freightliner 03-37017-000	-	•	-	3"	CAM CAP	N/A	N/A
600168	G	Female	-	•	-	3"	8 NPSL	4.35"	4.35"
600180	H	Female	•	•	•	4"	8 NPSM	4.35"	4.35"
601065	I	Bayonet	•	-	-	4"	N/A	3-7/8"	3-7/8"
600260	J	Female, Kenworth	•	•	•	3"	5-1/2 NS	3.35"	3.35"
600264	K	Female, Reefer & International	-	•	-	2"	11-1/2 NPSH	2-1/4"	2-1/4"
600211	L	Lever, Peterbilt	-	-	•	4"	-	N/A	N/A



### Fuel Caps

- Comes in attractive clamshell packaging
- All locks have a single key available
- All locks are direct replacement of OEM caps

### NOTES

\* Freightliners after 1983 and Western Star after 1982 both with diesel fuel tanks with 3" male pipe filler necks

\*\* Freightliners prior to 1984 and Kenworth after 1984, Peterbilt prior to 1980 and Western Stars prior to 1983 all with diesel fuel tanks with 3" male pipe filler necks

**V** Vented

**T/R** Thermal relief

**P/R** Pressure relief



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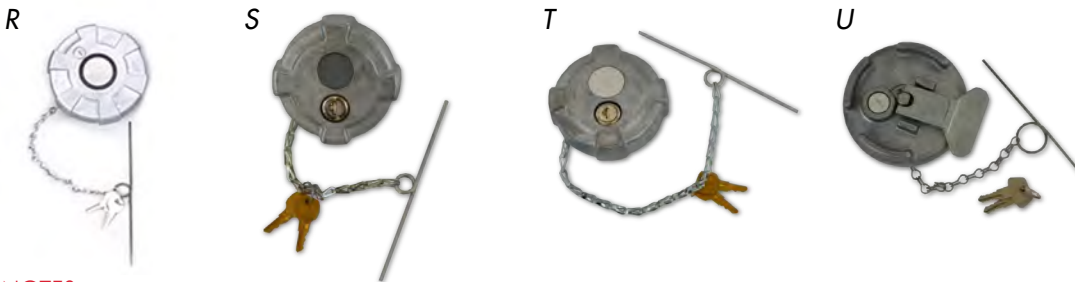
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# FUEL SYSTEMS

## ALUMINUM LOCKING FUEL CAPS



Part #	Photo	Type	V	T/R	P/R	Nominal Size	Threads Per Inch	Across Cap	Threads Filler Neck
600150	M	Female, Freightliner M2	-	●	-	2.5"	8 UN	2.38"	2.38"
600185-6***	N	Female Replaces Freightliner A03-12927-6 and Kenworth K071-385-1234**	●	●	●	3"	5-1/2"	3-7/16"	3-1/2"
600183-6***	O	Female Replaces Freightliner A03-15682-6 and Western Star 43301-3403*	●	●	●	3"	8 NPSL	3.37"	3.37"
600149	P	Female, 1/4 Turn Replaces Freightliner 03-37017-002	-	●	-	3"	CAM CAP	N/A	N/A
600169-6	Q	Female	-	●	●	4"	8 NPSL	4.35"	4.35"
600181-6	R	Female	●	●	●	4"	8 NPSM	4.35"	4.35"
600259	S	Female, Volvo, Mack & International	-	-	●	3"	8 NPSL	3.37"	3.37"
600263	T	Female, Kenworth w/ Thermo Relief	-	●	-	3-1/2"	5-1/2 NS	3.38"	3.38"
600212	U	Lever, Peterbilt	-	-	●	4"	N/A	N/A	N/A



### NOTES

\*\*\* Keys not available separately

**V** Vented

**T/R** Thermal relief

**P/R** Pressure relief

### NOTE

All caps meet or exceed Federal Motor Carrier Safety Administration (FMCSA) requirements. This product conforms to the relief pressure and leakage rate test as required by 49 CFR 393.67 standards to protect from the inherent dangers associated with fuel leaks

Fuel caps come in attractive retail clamshell packaging

Part No. 600263 shown here >



# FUEL SYSTEMS

## GAS / DIESEL FUEL CAPS

Vented aluminum caps meet 49 CFR 393.67 requirements for vehicles built after October 1985. Vented brass caps are designed for use only on vehicles with non-vented fuel systems built prior to October 1985. Non-vented brass caps are designed for use only on vehicles equipped with properly vented fuel systems. For complete information on current fuel tank system requirements, see Code of Federal Regulations 49 CFR 393.67

- Available as vented or non-vented
- Fusible meltouts on brass fuel caps for thermal relief
- Safety chains and crossbars are standard on all caps except Part No. 600009 which features a 14" exterior cable with an attached 3/16" I.D. ring
- Patented Loc-Gard on locking cap protects against moisture and contaminants (US Patent No. 4,706,841)
- All locking fuel caps are supplied with 2 keys



### Brass Locking Fuel Cap

- Nominal size - 2"
- Threads per inch - 11-1/2
- Cap - 2-1/4"
- Filler neck - 2-5/16"

Part #	Description
600196-6	Female, non-vented



### Aluminum Locking Fuel Cap

- Nominal size - 2"
- Threads per inch - 11-1/2
- Cap - 2-1/4"
- Filler neck - 2-5/16"

Part #	Description
600270	Female, non-vented



### Brass Fuel Cap

- Nominal size - 2"
- Threads per inch - 11-1/2
- Cap - 2-1/4"
- Filler neck - 2-5/16"

Part #	Description
600009	Female, non-vented



### Brass Fuel Cap

- Nominal size - 2"
- Threads per inch - 11-1/2
- Cap - 2-1/4"
- Filler neck - 2-5/16"

Part #	Description
600133	Female, non-vented
600007	Female, vented

### WARNING!

Aluminum fuel caps are designed ONLY for Diesel applications; brass fuel caps are designed for gasoline, diesel and oil applications



### Brass Fuel Cap

- Nominal size - 2-1/8"
- Threads per inch - 12
- Cap - 2-1/8"
- Filler neck - 2-1/16"

Part #	Description
600017	Male, vented

**NOTE: Part numbers listed in RED are NEW!**



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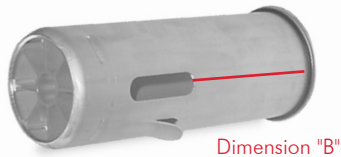


## REPLACEMENT PARTS FOR CAPS



Part #	Replacement Part	Application
600011	2" Gasket	600196-6, 600009, 600133, 600007
600021	2 1/8" Gasket	600017
600081	3" Gasket	600184, 600185-6, 600183-6
601069	4" Gasket	600168, 600169-6, 600172, 600173-6
600041	Lock Cam	600169-6
600053	Lock Cam	600173-6
600175	Loc-Gard cap	600173-6
600176	Loc-Gard cap	600169-6, 600196-6
601063	Chain and bar	600168, 600169-6, 600172, 600173-6, 601065
600040	Chain and bar	600007, 600017, 600133, 600196-6
600631	Key No 31	Lock No 31 - Used on 600169-6 and 600196-6
600632	Key No 32	Lock No 32 - Used on 600169-6 and 600196-6
600633	Key No 33	Lock No 33 - Used on 600169-6 and 600196-6
600219	Key No 19	Lock No 19 - Used on 600169-6 and 600196-6
600220	Key No 20	Lock No 20 - Used on 600169-6 and 600196-6
600221	Key No 21	Lock No 21 - Used on 600169-6 and 600196-6

## ANTI-SIPHON TUBES



### Protect your fuel with Velvac's Anti-Siphon Tube

- Fast and easy installation — tube is designed to lock onto filler neck wall to prevent removal
- Eliminates the potential for fuel theft from syphoning through filler neck
- Durable all aluminum construction
- Vented design allows fueling at 20+ gallons per minute
- OEM approved with sizes to fit most vehicle applications



Part #	Dimension "B" *	Description
600241	3-3/4 inches	Fits heavy duty Volvo, International and Mack trucks
600242	3-3/4 inches	Fits heavy duty Volvo, International and Mack trucks
600243	2-3/4 inches	Fits heavy duty Kenworth
600244	2-3/4 inches	Fits heavy duty Freightliner
600245	2-1/4 inches	Fits medium-duty trucks
600246	3-3/4 inches	Fits medium-duty and Reefer trucks
600258	-	4" Anti-siphon tube
600265	-	2-1/2" Peterbilt anti-siphon tube w/ installation kit

**NOTE**

\* Dimension "B" is from the underside of the top lip to the tip of the last barb

# FUEL SYSTEMS

## FUEL TANK VALVES



### Ball Valve

- Designed for fuel line shutoff in gasoline and diesel vehicles. May also be used for water and air service lines
- Heavy-duty forged brass body provides extended service
- Teflon® seats and seals provide positive sealing with easy opening and closing
- 600 psi water, oil or fuel
- 150 psi on/off saturated steam service lines
- 29 in. Hg vacuum service

Part #	Description
060050	1/2" NPT
060051	3/8" NPT
060053	1/4" NPT



Three-way  
060004



Three-way  
060012

### Tank Cocks

- All brass bodies
- Mounting flanges with 1/4" bolt holes
- Standard 1-1/2" stems



Four-way  
060001, 060007

Part #	Description
060004	Three-way tank cock with 3/8" FPT side ports
060012	Three-way tank cock with 1/4" FPT bottom and side ports
060001	Four-way tank cock with 3/8" FPT bottom and side ports
060007	Four-way tank cock with 1/4" FPT bottom and side ports

## RETURN FLOW SPLITTERS

- Designed for dual draw/dual return diesel fuel system
- Distributes fuel equally to both left and right tanks eliminating the need for crossover lines
- Durable zinc die cast bodies
- Convenient tee configuration for easy plumbing to each tank
- Applicable for marine use
- (3) 1/2" FPT ports
- (2) 1/4" mounting holes



Part #	Description	Vehicle Applications
060070	Standard flow	Fits heavy duty Volvo, International and Mack trucks
060071	High flow	Fits heavy duty Volvo, International and Mack trucks

## DIESEL FUEL VALVES



- All brass bodies provide added durability — both with 1/2" MPT bottom ports
- Neoprene seats make valves compatible with most liquids

Part #	Description
060026	Leveling valve with 1/2" FPT side port
060027	Leveling valve with 5/8" SAE 45° male flare side port



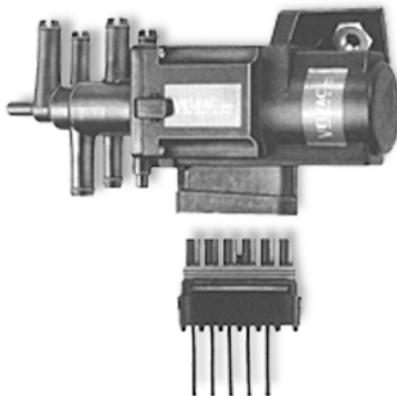
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## ELECTRIC FUEL TANK SELECTOR VALVES

### Six Port Motor-Driven Valve

- Designed for systems with fuel or vapor return lines - not for use with fuel systems operating over 30 psi
- Reduces the possibility of fuel returning to incorrect tank as valve remains in actuated position after power is disconnected
- Permits high closing pressures
- Can be used for biodiesel, vegetable oil and olive oil
- 12 VDC
- Operating temperature range of -40° to 180° F
- 3/8" supply lines, 5/16" return lines
- Weatherproof electrical connector Part No. 060049 is required for all new installations



Part #	Description
060047	Six port motor-driven valve
060049	Electrical connector

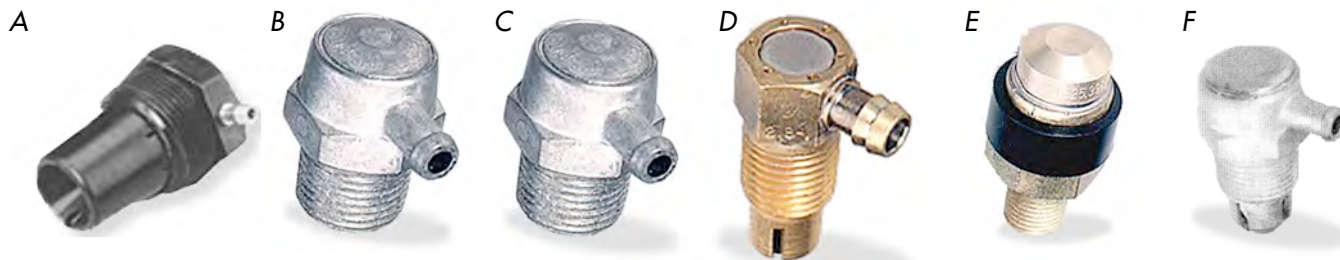
### Fuel Solenoid Shut Off Valve

- 12 VDC
- 3/8" port
- 3" overall height
- Includes seal ring and port plug



Part #	Description
034095	Fuel solenoid valve

## FUEL TANK SAFETY VENTS



- Feature patented anti-spill protection
- Vents meet all applicable DOT requirements

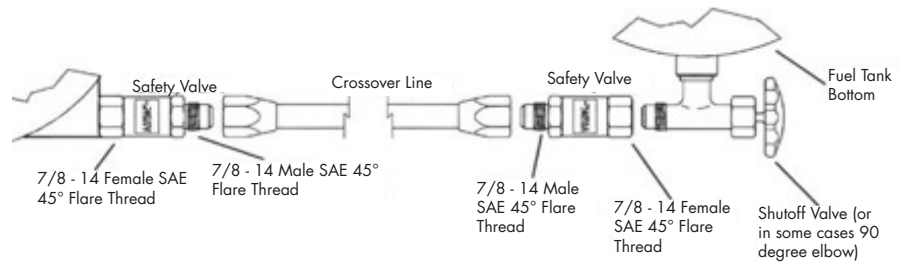
Part #	Photo	Thread Size	Barb Size (I.D. Hose)	Fuel Application	Vehicle Application
060060	A	1-1/4" PTF SAE Short	1/4"	Diesel	Peterbilt
060061	B	1/2"-14 PTF SAE Short	5/16"	Gasoline	Various
060062	C	1/2"-14 PTF SAE Short	5/16"	Diesel	Various
060063	D	1/4"-18" PTF	1/4"	Diesel	Various

### Valves with Pressure and Thermal Relief Features

Part #	Photo	Thread Size	Barb Size (I.D. Hose)	Fuel Application	Pre-1992
060040	E	1/4"-18 PTF	N/A	Diesel	Kenworth
060064	F	1/2"-14 PTF SAE Short	5/16"	Diesel	Kenworth

**NOTE: Part numbers listed in RED are NEW!**

## FUEL TANK VALVES



Fuel tank diagram

### Crossover Fuel Line Safety Valve

- Functions as a "fuse" in the fuel crossover line, automatically shutting off the flow of fuel if the line between a vehicle's main and auxiliary tanks is torn away or obstructed

- Separates before the crossover fuel line ruptures, preventing damage to fuel tank lines, fittings and valves

- Reduces the risk of fire and fuel slick by minimizing fuel loss if crossover fuel line is torn away
- 3-1/8" length, 1-1/4" diameter
- Lightweight aluminum construction

Part #	Description
060056	Crossover fuel line safety valve

## ADAPTER KITS



### Filler Neck Adapter Kit

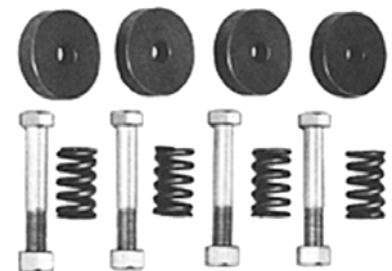
- Part No. 600112 allows 2" female fuel caps to be installed on filler necks with small inside diameters
- Part No. 600191 allows 2" female fuel caps to be installed on 2-1/2" male filler neck with 8 threads per inch
- Include aluminum adapter, installation instructions and adhesive

Part #	Description
600112	Filler neck adapter kit
600191	Filler neck adapter kit

### Saddle Tank Mounting Kit

- Complete kit for mounting one saddle tank

Part #	Description	
602002	Saddle tank mounting kit	
<b>Kit Contents:</b>		
Part #	Description	Qty
060033	Rubber pad	4
	Spring	4
	Lock nut	4
	Hex bolt	4



1/2" center hole

#### NOTE

Replacement rubber pads available; no replacements available for other kit parts.



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**OUR PARTS PUT YOU IN THE PASSING LANE**

# **BACK-UP ALARMS**

## **Alarms, warning devices & switches.**

Velvac back-up alarms meet the needs of almost every vehicle application and environment.

- **Heavy duty OEM style**
- **Patented double-reflex horn**
- **Speaker alarms**



# BACK-UP ALARMS

## Horn Style Alarms

### Double Reflex Horn Style Back-up Alarm

10-Year Warranty

- Features patented double reflex horn speaker, providing efficient, high output sound with less power consumption and reduced heat for greater reliability and performance. 24" long folder horn allows alarm to run cooler by using about half the power consumption of conventional speaker alarms to achieve the same decibel output
- High impact glass filled nylon housing meets high temperature demands of SAE J994 and UL flame testing. Provides durability needed for the toughest work and vehicle environments
- 12-24 VDC polarity and peak voltage protection, temperature range -40° to +85°C



HD STD

- Slotted mounting centers with optional back or bottom mounting for easy installation
- Meets requirements of SAE J994, CE, eMark and UL, OSHA, MSHA, IP67
- 10 year warranty

### External Switch

- Switch will cause alarm to activate when linkage is shifted into reverse
- Operating temperatures of -40°F to +140°F
- 12-24 VDC
- Not for underwater use



Part #	Description
697011	External switch

### Heavy Duty External Switch

- For use on vehicles that do not have back-up lights readily available
- Equiv: Preco SW30



Part #	Voltage	Amps
697012	12-80 V	10

Part #	Decibels	Rated Current mAmps (mA)	Connection Type	Mounting Bracket	Mounting Center	ECCO Equivalent	PRECO Equivalent
<b>HD STD</b>							
697002	107	300	Wire	Integrated nylon	3.25"	575	270



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# BACK-UP ALARMS

## Speaker Style Alarms

- High impact glass filled nylon housing meets high temperature demands of SAE J994 and UL requirements for flame testing
- 12-24 VDC polarity and peak voltage protection
- Temperature range -40° to +85°C
- Epoxy encapsulation protection and 3 year warranty



697103



699287 & 699297

Part #	Decibels	Rated Current mAmps (mA)	Connection Type	ECCO Equivalent	PRECO Equivalent
697287	87	100	Wire	—	—
697297	97	500	Wire	—	—
699287	87	500	Terminal	505	220/240
699297	97	500	Terminal	510/520	230/240



697087, 697097 & 697107



697066 & 697112



699087, 699097 & 699107



699112

Part #	Decibels	Rated Current mAmps (mA)	Connection Type	Mounting Center	ECCO Equivalent	PRECO Equivalent
699087	87	200 - 300	Terminal	3.25	505	220/ELT 278
699097	97	200 - 300	Terminal	3.25	510/520	230/230LV/240
699107	107	200 - 300	Terminal	3.25	—	250
699112	112	200 - 300	Terminal	—	—	—
697087	87	100 - 200	Wire	3.25	—	—
697097	97	100 - 200	Wire	3.25	—	240C5
697107	107	400 - 500	Wire	3.25	575	270
697112	112	400 - 500	Wire	4.12	—	—
697066	87-112*	400 - 500	Wire	4.12	SA901	1020

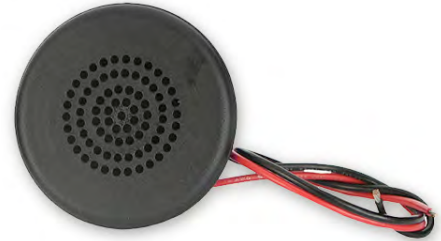
- High impact glass filled nylon housing meets high temperature demands of SAE J994 and provides durability needed for even tough work and vehicle environments
- Epoxy encapsulation protects electronics against moisture, allowing steam cleaning or pressure washing
- Ground strap included on 699 Series terminal alarms - two 9" x 16" gauge wires included
- Temperature range -40° to +85°C
- Slotted mounting centers with optional back or bottom mounting for easy installation - dimensions in table above
- Meets SAE J944 requirements
- 1 year warranty

# BACK-UP ALARMS

## BACK-UP ALARMS & WARNING DEVICES

### Flush Mount Alarms

- High impact glass filled nylon housing meets high temperature demands of SAE J994 and provides durability needed for even tough work and vehicle environments
- 12 - 24 VDC operation, temperature range -40° to +85°C
- 697124 and 697125 alarms are designed to mount flush into standard 4" hole on vehicle body. These alarms include rubber mounting boot and wire harness with mating connector
- 697187 and 697197 feature a compact design for mounting into 1/75" hole in vehicle body - overall unit depth is 1.28"



697187 & 697197

Part #	Decibels	Rated Current mAmps (mA)	Connection Type	Hole Diameter	ECCO Equivalent	PRECO Equivalent
697187	87	250	Wire	1.75"	—	—
697197	97	250	Wire	1.75"	—	—
697124	97	200 - 400	Wire harness w/ connector	4"	410/415	4030
697125	107	200 - 400	Wire harness w/ connector	4"	435	4050

### Warning Devices



696087, 696097 & 696107

Part #	Decibels	Rated Current mAmps (mA)	Connection Type	Mounting Centers	ECCO Equivalent	PRECO Equivalent
696087	87	90 - 400	Terminal	3.25"	-	-
696097	97	150 - 400	Terminal	3.25"	DT500	D5232
696107	107	150 - 500	Terminal	3.25"	-	-

- Yellow colored nylon housings clearly identify as warning devices
- 12 - 24 VDC operation - ground strap included
- Slotted mounting centers with optional back or bottom mounting for easy installation



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**OUR PARTS PUT YOU IN THE PASSING LANE**

# ACCESSORIES

**Yep, it's in here.**

From wiper blades to emergency triangles, if you couldn't find what you were looking for in the other sections of our catalog, it's probably right here.

- **Wiper blades & emergency triangles**
- **Tarp straps & king pin locks**
- **And a whole lot more!**



# ACCESSORIES

## WIPER BLADES



### Universal Winter Heavy Duty

- Heavy duty steel construction is surrounded by a rubber boot to minimize the accumulation of snow and ice on wiper blades

Part #	Length	Anco #	Trico #
W15	15"	30-15	37-151
W16	16"	30-16	37-160
W18	18"	30-18	37-180
W20	20"	30-20	37-205
W22	22"	30-22	37-225
W24	24"	30-24	37-245
W28	28"	-	-



### Heavy Duty Flex Blades

- Designed for heavy duty arms that have less than 48 oz. of load. Can be used on flat or curved windshields with narrow saddle arms

Part #	Length	Anco #	Trico #
72-15	15"	52-15	63-151 64-150
72-16	16"	52-16	63-161 64-160
72-18	18"	52-18	63-18 64-180
72-20	20"	52-20	63-12 64-200



### Premium Universal Wiper Blade

- All makes premium heavy duty wiper blade replaces the Anco 91 Series heavy duty blade. Features a riveted all steel frame and compression molded rubber blade for increased life and durability

Part #	Length	Anco #	Trico #
76-16	16"	91-16	16-1 16-2
76-18	18"	91-18	18-1 18-2
76-19	19"	91-19	19-1 19-2
76-20	20"	91-20	20-1 20-2 20-4 20-9
76-21	21"	91-21	21-1
76-22	22"	91-22	22-1 22-4 22-9
76-24	24"	91-24	24-1 24-4 24-9
76-28	28"	91-28	28-1



### Winter Heavy Duty Narrow

- Heavy duty steel frame for narrow arms is surrounded by a rubber boot to minimize the accumulation of snow and ice

Part #	Length	Anco #	Trico #
WN15	15"	59-15	66-150
WN16	16"	59-16	66-160



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## WIPER BLADES



### Heavy Duty Flat Blade

- Used in flat windshield applications. Stainless steel rail. Typically used on heavy duty trucks, school buses, step vans and RVs

Part #	Length	Anco #	Trico #
71-13	13"	51-13	62-130
71-14	14"	51-14	61-140
71-15	15"	51-15	61-150
71-16	16"	51-16	61-160
71-18	18"	51-18	61-180



### Universal Wiper Blade

- All makes heavy duty wiper blade replaces the Anco 31 Series blade, featuring an all steel frame construction with compression molded-rubber for long life

Part #	Length	Anco #	Trico #
75-14	14"	31-14	-
75-15	15"	31-15	-
75-16	16"	31-16	-
75-17	17"	31-17	-
75-18	18"	31-18	-
75-19	19"	31-19	-
75-20	20"	31-20	-
75-22	22"	31-22	-
75-24	24"	31-24	-

## TARP STRAPS

### Tarp Straps

- Made of molded rubber for ozone resistance and stretch resiliency
- Designed to hold tarp covers on trucks and trailers
- Hooks are crimped to prevent hook disconnection
- Straps will stretch up to twice their original length
- Premium and DPM straps add increased UV protection

Rubber Tarp Part #	Premium EDPM	Description
580113	580118	9" Length
580114	580119	15" Length
580115	580120	21" Length
580116	580121	31" Length
580117	580122	41" Length



**--- WARNING! ---**

Rubber tarp straps can have a strong spring tension and can cause bodily injury if they were to come unhooked or break. Safety glasses are recommended. Tarp straps are not to be used to restrain or secure cargo.

# ACCESSORIES

## EMERGENCY TRIANGLE

### Emergency Triangle Kit

- Kit contains three HD triangles packaged in a red plastic box
- Fluorescent orange plastic and red reflectors is visible day or night
- Snaps together for easy set up
- Heavy weighted sand filled base provides stability
- Meets all applicable FMVSS 125 and SAE/DOT specifications



Part #	Description
090240	Emergency triangle kit

## KING PIN LOCK

### King Pin Lock

- Help deter unwanted trailer hookups
- Made of durable cast iron, it enhances protection against theft, breakage or damage
- Heavy duty zinc plated lock set helps deter rusting and extends service life
- Lock set includes two (2) keys

NOTE: Each King pin lock is randomly keyed  
NOTE: Keyed alike is not available



Part #	Description
019032	King pin lock

## MECHANICS WIRE

### Mechanics Wire

- Heavy-duty black annealed construction

Part #	Wire Size	Roll Weight
090142	14 ga.	2 lb.
090145	14 ga.	5 lb.
090162	16 ga.	2 lb.
090165	16 ga.	5 lb.
090182	18 ga.	2 lb.
090185	18 ga.	5 lb.

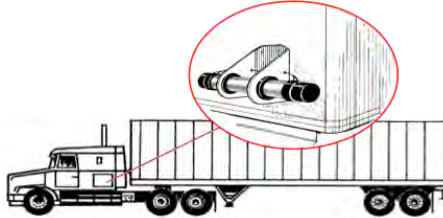


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### Tite-Seal Document Storage Case

- Patented rubber caps create a watertight seal
- Aluminum mounting bracket features cushioned tube supports and pre-drilled mounting holes
- CapKeeper protective cable secures caps to mounting bracket



Case with bracket and CapKeeper™ cable



Light duty



Standard case with bracket

Part #	Description
090113*	Light duty aluminum tube with painted steel cap
090114*	9" Aluminum tube with bracket
090115*	9" Aluminum tube with bracket and CapKeeper cable
090116*	12" Aluminum tube with bracket and CapKeeper cable
090119	Replacement rubber cap

\* Bulk pack available. See price list

CapKeeper™ is a trademark of Velvac, Inc.

### License and Permit Holder

- UV-resistant Lexan®
- Inside dimensions are 3-1/8" to 3-3/4" wide x 5-1/2" high x 1-1/4" deep
- Three 1/4" mounting posts
- Documents secured by a metal spring clip and plate



Part #	Description
090060	License and permit holder
090061	Replacement cover

Lexan® is a registered trademark of SABIC Innovation Plastics

# ACCESSORIES

## RADIATOR CAPS

### Heavy Duty Radiator Caps

- Velvac is now featuring all makes of heavy duty truck radiator caps



10208



10206



10238



10308



10205

Part #	Deep Neck	Pressure (lb.)
10205	1"	4
10206	1"	7
10208	3/4"	4
10238	Threaded filler neck	16
10308	3/4"	4

- For radiator overflow reservoir systems



10227



10228, 10229



10230, 10231



10233



10237



10241, 10242

Part #	I.D. Size	Deep Neck	Pressure (lb.)
10227	32 mm	16 mm	13
10228	-	3/4"	7
10229	-	3/4"	13
10230	-	3/4"	16
10231	-	3/4"	16 vented
10233	32 mm	16 mm	16
10237	-	3/4"	10
10241	31 mm	10 mm	13
10242	31 mm	10 mm	16
10328	-	3/4"	7
10329	-	3/4"	13
10330	-	3/4"	16
10331	-	3/4"	16 vented
10333	32 mm	16 mm	16
10337	-	3/4"	10



10330, 10331



10328, 10329



10333



10337

Manufactured by Stant®, an industry leader

Stant® is a registered trademark of Stant



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## RADIATOR CAPS

### Heavy Duty Radiator Caps (cont.)

Part #	O.D. Size	Deep Neck	Pressure (lb.)
10281	"B" 2-11/16"	3/4"	4
10282	"B" 2-11/16"	3/4"	7
10283	"B" 2-11/16"	3/4"	10
10292*	"B" 2-11/16"	3/4"	7
10293*	"B" 2-11/16"	3/4"	10
10294	"B" 2-11/16"	3/4"	15

Manufactured by Stant®, an industry leader



\*For radiator overflow reservoir systems

## CONSPICUITY TAPE

### Conspicuity Tape

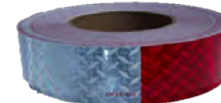
- All the red and white conspicuity tape is DOT-C2 certified and guaranteed to meet or exceed all FMVSS 108 & NHTSA requirements
- The red and white tape comes with a 3, 5 or 10 year warranty
- School bus yellow tape has an enhanced daytime appearance and sight detection for safety. It meets or exceeds FMVSS 131 and FMVSS 217 requirements
- The white is a high performance polyester film that is thin and flexible
- The conspicuity strips are weather, solvent and UV resistant
- The red circles are SAE-A DOT approved
- The latest addition to the line is the diamond plate conspicuity tape. It is thin and flexible, weather resistant and has a distinctive design



058398



058370



058402



058400



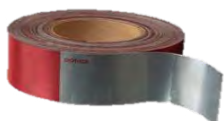
058373, 058374, 058377

Part #	Description	Warranty
058395	2" x 150' Roll of 11" Red / 7" White	3 Year
058370	2" x 150' Roll of 11" Red / 7" White	5 Year
058396	2" x 150' Roll of 11" Red / 7" White	10 Year
058397	2" x 150' Roll of 6" Red / 6" White	5 Year
058402	2" x 150' Roll of 6" Red / 6" White diamond plate	5 Year
058398	2" x 150' Roll of solid white	5 Year
058400	1" x 150' Roll of solid yellow	10 Year
058379	2" x 150' Roll of solid yellow	10 Year

Part #	Description	Warranty
058373	2" x 18" 11" Red / 7" White conspicuity strips	5 Year
058374	2" x 12" White conspicuity strips	5 Year
058377	2-3/4" Diameter red reflective circles	N/A
058399	3-3/4" x 6-1/2" Reflective American flag	5 Year



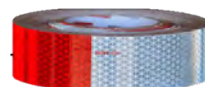
058399



058395



058396



058397

**HDT TOP 20 AWARD WINNER**

**Hooking up  
your trailer just  
got really easy.**

**PATENT  
ISSUED**

U.S. PATENT NO.  
9,357,114 B1



Recognized by  
Heavy Duty Trucking  
as a Top 20  
Product of the Year!

Our **5th Wheel Dual Camera System** makes it so much easier for commercial drivers to make sure that everything is lined up properly. Seeing the kingpin enter the throat of the 5th wheel helps ensure safety and takes the guesswork out of the coupling process. *Now patented!*



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See V11 for more info on the 5th Wheel Dual Camera System

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**OUR PARTS PUT YOU IN THE PASSING LANE**

# RETAIL MERCHANDISING

## **Sell more with POP displays!**

Our attractive custom designed displays help your team organize and position the "high runners" that your customers are looking for.

- **Mirror, electrical & air displays**
- **Fittings & clamp displays**
- **Buckets, boxes & racks**



## DISPLAYS WITH PRODUCT ASSORTMENTS

### Mirror Assortment and Spinner Display



- Velvac now offers a 3-sided spinner display complete with an assortment of popular mirrors that reduce blind spots and improve driver safety.

- Part. No. 690110 includes:
  - » 17 popular mirrors
  - » 150 items total
  - » 3-sided spinner display
  - » Plan-o-gram
  - » 25 4" peg hooks

The assortment of mirrors includes:

- » West coast
- » 8½" convex
- » 5, 6, 7½" convex
- » Stick-on

**Assortment includes the following part numbers and quantities plus spinner display:**

Part #	Quantity
708501	12
708502	12
708556	6
708503	6
708520	10
708521	8
708515	10
708509	10
708508	10
705038	10
705333	8
705107	6
708331	6
705335	6
723050	10
723060	10
723065	10
723075	10
723100	3
690108	25
690104	1
Plan-o-gram	1

Part #	Description
690110	Mirror assortment & display



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## DISPLAYS WITH PRODUCT ASSORTMENTS

### Air and Electrical Display Rack



Part #	Description
690201	Includes rack and bins, air and electrical products, plan-o-gram, header, display and bin label

- Ships with an attractive laminated Velvac header
- Designed for a flexible product set
- Bins are designed to accept dividers to increase storage possibilities
- Display is formed from 16-gauge steel for strength and stability
- Display is designed to hold up to 800 pounds
- Easy to assemble
- Ships with plan-o-gram

**Assortment includes the following part numbers and quantities plus air and electrical display pack:**

Part #	Quantity
035031	40
035032	40
035033	40
035037	5
035092	5
035093	5
035009	100
035010	100
035011	100
035094	5
035095	5
035007	50
035070	4
022002	5
022001	5
022025	5
032082	5
032058	5
590160	4
590161	4
590163	4
590155	4
590157	4
593057	5
593022	5
593083	5
593084	5
038001	5
038003	5
038005	5
580037	10
580039	5
580040	5

## DISPLAYS WITH PRODUCT ASSORTMENTS

### Electrical Component Assortment and Spinner Display



- Assortment of popular, high running electrical components
  - » Butt and ring tongue connectors
  - » Quick slide connectors
  - » Heatless connectors
  - » Fuse holders and fuses
  - » Heat shrink tubing
  - » Silicon self-sealing tape
  - » Electrical tape
  - » Crimping tools
  - » Cable ties
- Includes:
  - » 65 popular, high running part numbers
  - » 226 items total
  - » 3-sided spinner display
  - » Plan-o-gram
  - » 107 4" peg hooks

Part #	Description
690111	Electrical assortment & display

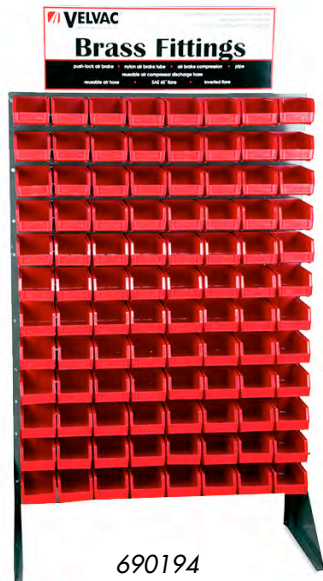
*Assortment includes the following part numbers and quantities plus spinner display:*

Part #	Quantity	Part #	Quantity
058313-10	10	090068-100	9
058313-40	10	091190	4
058314-10	6	091130	4
058314-40	4	091426	2
058312-10	4	091189	2
058312-50	6	091325	2
056052-10	4	091326	2
056052-50	6	091175-5	2
056053-10	4	091180-5	2
056053-50	6	091181-5	2
056051-50	6	091182-5	2
057086-50	4	091183-5	2
058026	2	091184-5	2
090070-25	9	091303-5	2
058303-50	4	091305-5	2
058304-50	4	091306-5	2
058306-50	2	091307-5	2
056005-10	4	091308-5	2
056005-50	4	091309-5	2
056006-50	4	091400-5	2
056008-50	4	091401-5	2
056011-50	2	091402-5	2
058316-40	2	091403-5	2
058319-50	2	091404-5	2
056070-50	2	091131-5	2
056067-50	2	091135-5	2
056111-5	3	091140-5	2
056112-5	3	091142-5	2
056113-5	3	091144-5	2
058382	8	091254	4
058380	2	090066-100	9
057131	2	690104	1
057132	2	Plan-o-gram	1
057133	2		



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### Brass Fitting POP Display



- Designed for more flexibility and storage space
- Attractive header card puts the Velvac name in front of customers
- Bins are designed to accept dividers that increase storage possibilities
- Frame is formed from 16-gauge steel for strength and stability
- Frame is designed to hold up to 800 pounds
- Choose from 3 different bin size layouts to best fit your needs
- Display assembly can be ordered in 3 different pre-designed configurations or by the individual pieces for a more custom display

### Fitting Labels

Part #	Description
409904	Complete set of bin labels for all fittings

\* Packet of peelable sticker labels for use on all brass fittings POP display units

Part #	Cabinet Configurations
690194	Velvac header card, instruction sheet, 96 small bins and 48 small bin dividers
690195	Velvac header card, instruction sheet, 56 small bins, 4 medium bins, 2 large bins, 28 small bin dividers, 2 medium bin dividers and 1 large bin divider
690196	Velvac header card, instruction sheet, 40 small bins, 8 medium bins, 2 large bins, 20 small bin dividers, 4 medium bin dividers and 1 large bin divider



Part #	Type	Specs
690187	Cabinet frame only	54"H x 36"W x 16"D (Header adds 10")
690188	Small storage bin	7 <sup>3</sup> / <sub>8</sub> "L x 4 <sup>1</sup> / <sub>8</sub> "W x 3"H (Holds: 50 seals, 5-10 drain plugs or 4-5 gladhands)
690189	Medium storage bin	10 <sup>3</sup> / <sub>4</sub> "L x 8 <sup>1</sup> / <sub>4</sub> "W x 7"H (Holds: 15 gladhands, 15 7-way plugs or 10 sockets)
690190	Large storage bin	14 <sup>3</sup> / <sub>4</sub> "L x 16 <sup>1</sup> / <sub>2</sub> "W x 7"H (Holds: 2-3 coiled electric sets or 1-2 coiled air sets)
690191	Small bin divider	2 <sup>1</sup> / <sub>2</sub> "H x 6 <sup>3</sup> / <sub>4</sub> "L
690192	Medium bin divider	6 <sup>1</sup> / <sub>2</sub> "H x 10"L
690193	Large bin divider	6 <sup>1</sup> / <sub>2</sub> "H x 13 <sup>3</sup> / <sub>4</sub> "L



## FITTINGS DISPLAY RACKS

### Fitting Assortments



Part #	Pipe Size	Total Fittings
690072	Push-lock fitting assortment	155
690059	Large air brake compression fitting assortment	583
690071	Nylon air brake tube fitting assortment	304
690064	Brass pipe fitting assortment	340
690090	Cabinet only	-
690091	Replacement drawer dividers (Pkg. qty 12)	-

- Steel cabinet with rust-resistant baked enamel finish
- Cabinet includes 18 drawer dividers and 9 large steel drawers with a "positive stop" feature, preventing drawers from being accidentally pulled out
- Dimensions:  
17¼"W x 10⅞"H x 11⅝"D
- Assortments come complete with all specified fittings, cabinet and drawer dividers

## BUCKET AND COUNTER BOXES

### Counter Top Bucket Display



- A convenient way to display new products while increasing your inside store sales
- Round clear canister, 7" diameter x 7½" height
- Sold complete with cover for easy shipping or fleet sales
- Product label includes an area to display your part number, UPC code and price

Part #	Contents
035160	200 Black polyurethane gladhand seals
035161	200 Red polyurethane gladhand seals
035162	200 Blue polyurethane gladhand seals
035163	200 Black rubber gladhand seals
058380-4	10 Rolls black silicon self fusing tape
058381-4	10 Rolls red silicon self fusing tape
690202	Display bucket only



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## BUCKET AND COUNTER BOXES

### Polyurethane Gladhand Seals



- Color-coded seals will not crack or tear, reducing maintenance time and costs associated with rubber seal replacement
- Available in an attractive display box with 25 sets of seals (sets consist of 4 seals per bag, 2 red and 2 blue)

Part #	Description
035012	Display box with seals
035009	Red polyurethane seals
035010	Blue polyurethane seals
035011	Black polyurethane seals

### Display Bin Box



- Manufactured with corrugated cardboard for extra durability
- Great for store merchandising or storage of loose parts
- Fits on standard shelving or display units
- Complete with Velvac logo for store merchandising and branding

Part #	Description
690007	White 4" x 9"
690008	White 6" x 9"

## HOSE CLAMP AND AIR HOSE RACKS

### Slotted Hose Clamp Rack and Assortment



- Assortment includes rack, header and 200 of the fastest moving miniature and general purpose slotted clamps

Part #	Description
022632	Slotted hose clamp rack & assortment

**Assortment includes the following hose clamps:**

Part #	SAE Size	Quantity	Description	Range (in.)
022204	4 Mini	30	Miniature clamp	7/32" - 5/8"
022206	6 Mini	30	Miniature clamp	7/16" - 25/32"
022310	10	20	Slotted clamp	9/16" - 1-1/16"
022312	12	20	Slotted clamp	11/16" - 1-1/4"
022320	20	20	Slotted clamp	13/16" - 1-3/4"
022324	24	20	Slotted clamp	1-1/16" - 2"
022328	28	20	Slotted clamp	1-5/16" - 2-1/4"
022332	32	20	Slotted clamp	1-9/16" - 2-1/2"
022336	36	20	Slotted clamp	1-13/16" - 2"
022565	1	-	Rack & header	-

## HOSE CLAMP AND AIR HOSE RACKS

### Large Hose Clamp Rack



- Attractive freestanding or wall mountable display
- Includes 270 of the most popular clamp offerings
- Rack dimensions: 21 1/2"W x 23"H x 8"D
- Moveable hooks allow for several different configurations

Part #	Description
022628	Rack and header only
022630	Hose clamp assortment with rack and header

#### Assortment includes the following hose clamps:

Part #	Description	Size	Quantity
022204	Mini clamp	7/32" x 5/8"	20
022206	Mini clamp	7/16" x 25/32"	20
022310	Slotted clamp	9/16" x 1 1/16"	20
022312	Slotted clamp	1 1/16" - 1 1/4"	20
022320	Slotted clamp	1 3/16" - 1 3/4"	20
022324	Slotted clamp	1 1/16" - 2"	20
022328	Slotted clamp	1 5/16" - 2 1/4"	20
022332	Slotted clamp	1 9/16" - 2 1/2"	20
022336	Slotted clamp	1 13/16" - 2 3/4"	20
022626	Spring T-bolt clamp	4 1/16" - 4 3/8"	15
022581	Spring T-bolt clamp	2 3/4" - 3 1/16"	15
022430	Constant torq clamp	2 1/4" - 3 1/8"	15
022435	Constant torq clamp	2 3/4" - 3 5/8"	15
022425	Constant torq clamp	1 3/4" - 2 5/8"	15
022445	Constant torq clamp	3 3/4" - 4 5/8"	15

### Air Brake Hose Assembly Display Rack



- For display and organization of 3/8" and 1/2" air hose assemblies
- 12 separate slots hold up to 48 hose assemblies
- Rack measures 21"W x 6"H x 6"D
- Air brake hose assemblies sold separately

Part #	Description
691020	Display rack



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### Three-Sided Spinner Display



Product sold separately

- Increase your sales opportunities by displaying product and letting your customers know what you have available for sale
- Assembles in minutes - no tools required
- Stands 5' tall (5'6" with the 3 Velvac header signs)
- Three 16" pegboard panels
- Rotating display stand

Part #	Description
690104	3-sided spinner display only

#### Peghooks available separately:

Part #	Description
690108	4" Peghooks
690107	2" Peghooks

### Wiper Blade Rack



Product sold separately

- Attractive 16-prong POP display

Part #	Description
690203	Wiper blade display rack

### Primary Wire Rack



- Holds (12) 100' spools, (8) 100' & (2) 1000' spools or (4) 1000' spools

Part #	Description
691015	Primary wire rack

**NOTE: Part numbers listed in RED are NEW!**

## 100+ PAGES OF OE REPLACEMENT MIRROR PARTS



**Broken mirror?  
Today's your lucky day.**

With more than 100 pages of **OE Replacement Mirrors** in our catalog, finding your vehicle's mirror isn't the hard part, it's forgiving the "other guy" for breaking it in the first place. Whether it's just the glass, a part or the whole mirror assembly, we've got you covered — *and that's not luck, it's Velvac.*

 **VELVAC**<sup>®</sup>  
*In the Passing Lane Since 1934*

[velvac.com](http://velvac.com)



*OE Replacement Mirrors and Parts start on page M32*

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# INDEX

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- **Part Numbers**
- **Sectional Page Listings**
- **Visit [velvac.com](http://velvac.com) for more**



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### THE VELVAC SECTIONAL CATALOG

To make finding the part you need easier, all products have been numbered sequentially and listed with their sectional page reference number. For the most up-to-date listing of products, please visit our online catalog at: [velvac.com](http://velvac.com)

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- Founded in 1934
- TS 16949 & ISO 14001



New Berlin headquarters



Reynosa facility



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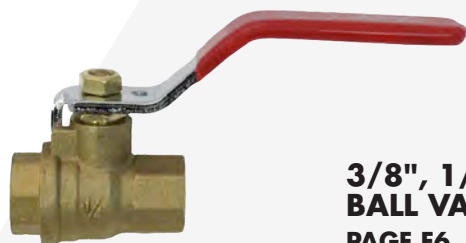
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