



# **OPEN ROAD**

**Truck Mirrors & Accessories**  
*by Cham-Cal Engineering*

*Remote Control Mirrors*

*Convex Mirrors*

*West Coast Mirrors*

*Replacement Heads*

*School Bus Mirrors*

*Mirror Assemblies*

*Mounting Brackets*

*Hardware & Accessories*

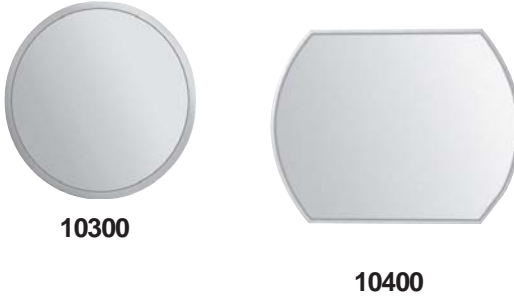




## TABLE OF CONTENTS

CONVEX MIRRORS	Pages	2-3
SPECIALTY CONVEX MIRRORS	Pages	4-5
WEST COAST MIRRORS	Pages	6-8
MOTORIZED MIRRORS	Page	9
HEAVY DUTY ASSEMBLIES	Page	10
HEAVY DUTY MIRROR BRACKETS	Page	11
SPECIAL WEST COAST KITS	Page	12
MIRROR YOKES	Page	13
MIRROR BRACKETS	Page	14
EXTENSION ARMS & CLAMPS	Page	15
STEP VAN MIRRORS & ASSEMBLIES	Pages	16-17
LIGHT & MEDIUM DUTY MIRRORS	Pages	18-21
SCHOOL BUS MIRRORS & BRACKETS	Page	22
LIGHT BRACKETS & DISPLAYS	Pages	23
SPECIAL PACKAGING	Page	24
POPULAR PART NUMBERS	Page	25
INTERIOR MIRRORS	Page	26
MISSION STATEMENT	Page	27
PART NUMBER LEGEND	Page	28
PRODUCT DISPLAYS	Page	27
LIMITED WARRANTY	Page	29



**Stick-On Convex Mirrors**

- Easily attaches to existing mirror to eliminate blind spots
- Corrosion resistant aluminum housing
- Adhesive back tape for quick installation included

<b>10100</b>	(S2)	2" Round Mirror
<b>10103</b>	(S2-3)	2" Round Mirror, BULK Pack
<b>10200</b>	(S3)	3" Round Mirror
<b>10203</b>	(S3-3)	3" Round Mirror, BULK Pack
<b>10300</b>	(S16)	3.75" Round Mirror
<b>10303</b>	(S16-3)	3.75" Round Mirror, BULK Pack
<b>10400</b>	(S160)	4" x 5.5" Rectangular Mirror
<b>10403</b>	(S160-3)	4" x 5.5" Rectangular Mirror, BULK Pack

**5" Convex Mirrors**

- L bracket included
- 5/16" Adjustable female ball stud and bolt
- Glass mounted in ozone resistant vinyl

**10501**

<b>10501</b>	(S2S)	Stainless Steel
<b>10503</b>	(S2B)	Painted Black
<b>10504</b>	(S2W)	Painted White

**5" Flat Glass Mirrors**

<b>11501</b>	(S2FS)	Stainless Steel
<b>11503</b>	(S2FB)	Painted Black
<b>11504</b>	(S2FW)	Painted White

**6" Convex Mirrors**

- L bracket included
- 5/16" Adjustable female ball stud and bolt
- Glass mounted in ozone resistant vinyl

**10601**

<b>10601</b>	(S4S)	Stainless Steel
<b>10603</b>	(S4B)	Painted Black
<b>10604</b>	(S4W)	Painted White

**6" Flat Glass Mirrors**

<b>11601</b>	(S4FS)	Stainless Steel
<b>11603</b>	(S4FB)	Painted Black
<b>11604</b>	(S4FW)	Painted White

## 7.5" Convex Mirrors

- L bracket included
- 5/16" Adjustable female ball stud and bolt
- Glass mounted in ozone resistant vinyl

<b>10701</b>	(20S)	Stainless Steel
<b>10703</b>	(20B)	Painted Black
<b>10704</b>	(20W)	Painted White



10701

## 7.5" Offset Convex Mirrors

<b>12701</b>	(20SOS)	Stainless Steel
<b>12703</b>	(20BOS)	Painted Black
<b>12704</b>	(20WOS)	Painted White



12701

## 7.5" Heated Convex Mirrors

<b>10711</b>	(20SH)	Heated, Stainless Steel
<b>12711</b>	(20SOSH)	Offset Stud, Heated, Stainless Steel
<b>10713</b>	(20BH)	Heated, Painted Black
<b>12713</b>	(20BOSH)	Offset Stud, Heated, Painted Black

## 8.5" Convex Mirrors

- L bracket included
- 5/16" Adjustable female ball stud and bolt
- Glass mounted in ozone resistant vinyl

<b>10801</b>	(19S)	Stainless Steel
<b>10803</b>	(19B)	Painted Black
<b>10804</b>	(19W)	Painted White
<b>10806</b>		Painted UPS Brown



10801

## 8.5" Offset Convex Mirrors

<b>12801</b>	(19SOS)	Stainless Steel
<b>12803</b>	(19BOS)	Painted Black
<b>12804</b>	(19WOS)	Painted White
<b>12806</b>		Painted UPS Brown



12801

## 8.5" Heated Convex Mirrors

<b>10811</b>	(19SH)	Stainless Steel
<b>10813</b>	(19BH)	Painted Black
<b>12811</b>	(19SOSH)	Offset Stud, Stainless Steel
<b>12813</b>	(19BOSH)	Offset Stud, Painted Black



12811

**10481****4" x 8" Over Door Convex Mirror**

- Increases vision along the side of the vehicle
- All stainless steel construction resists rust

**10481** (OD600) Stainless Steel**10681****6" x 8" Rectangular Convex Mirror**

- L bracket included
- 5/16" Adjustable female ball stud and bolt
- Glass mounted in ozone resistant vinyl

**10681** Stainless Steel  
**10683** Painted Black  
**10684** Painted White

**10851****8.5" "Semi-Bubble" Convex Mirrors**

- Increases visibility into blind spots for trucks, vans, and buses
- 5/16" adjustable female ball stud and bolt included
- Acrylic lens mounted in ozone resistant vinyl

**10851** Stainless Steel  
**10853** Painted Black  
**10854** Painted White

**12851** Stainless Steel  
**12853** Painted Black  
**12854** Painted White

**10891****8.5" "Full Bubble" Wide Angle Convex Mirror**

- Increases visibility into blind spots for trucks, vans, and buses
- 5/16" adjustable female ball stud and bolt included
- Acrylic lens mounted in ozone resistant vinyl

**10891** (19DS) Stainless Steel  
**10893** (19DB) Painted Black  
**10894** Painted White

## 10.5" Cross Over Convex Mirror

- 5/16" adjustable female ball stud and bolt included
- Acrylic lens mounted in ozone resistant vinyl
- Increases visibility into blind spots
- Replacement mirror for vans, straight trucks, and parcel trucks

<b>10901</b>	(V910S)	Stainless Steel
<b>10903</b>	(V910B)	Painted Black
<b>10904</b>	(V910W)	Painted White
<b>10906</b>		Painted UPS Brown
<b>10911</b>		Heated, Stainless Steel



10901

## 12" Wide View Convex Mirror



- Extra large steel ball stud for added durability
- Reinforced internal retainers for added strength
- Large glass lens for increased image size

<b>11103</b>		Painted Black
<b>11104</b>		Painted White
<b>11105</b>		Painted Gray
<b>11115</b>		Heated, Painted Gray



11105

## Convex Mirrors with Universal Mounting Kits

- Great for added safety and vision into blind spots
- 5/16" Adjustable female ball stud and bolt
- Glass mounted in ozone resistant vinyl
- Kit includes # 70201 mounting hardware for 5/8" or 3/4" tubing

<b>13501</b>	(S402S)	5" Kit, Stainless Steel
<b>13503</b>	(S402B)	5" Kit, Painted Black
<b>13504</b>	(S402W)	5" Kit, Painted White
<b>13601</b>	(S404S)	6" Kit, Stainless Steel
<b>13603</b>	(S404B)	6" Kit, Painted Black
<b>13604</b>	(S404W)	6" Kit, Painted White
<b>13701</b>	(420S)	7.5" Kit, Stainless Steel
<b>13703</b>	(420B)	7.5" Kit, Painted Black
<b>13704</b>	(420W)	7.5" Kit, Painted White



13601

### 6" x 16" West Coast Mirrors



20100



20131

- 5/16"-18 mounting studs
- Rod through construction
- Steel End caps for strength
- Full vinyl gasketed insulated mirror glass
- Heated/Lighted mirrors wired for 12 volt systems

<b>20100</b>	(13A)	Best Quality, Aluminum
<b>20101</b>	(13S)	Stainless Steel
<b>20103</b>	(13B)	Painted Black
<b>20104</b>	(13W)	Painted White

<b>20110</b>	(13AH)	Heated, Aluminum
<b>20111</b>	(13SH)	Heated, Stainless Steel
<b>20113</b>	(13BH)	Heated, Painted Black
<b>20114</b>	(13WH)	Heated, Painted White

<b>20121</b>	(14L)	Lighted, Stainless Steel
<b>20123</b>	(14BL)	Lighted, Painted Black

<b>20131</b>	(14HL)	Heated & Lighted, Stainless Steel
<b>20133</b>	(14BHL)	Heated & Lighted, Painted Black



20230



20200

### 6" x 16" West Coast Economy Mirrors

- 5/16"-18 mounting studs
- Rod through construction
- Steel End caps for strength
- Full vinyl gasketed insulated mirror glass

<b>20200</b>	(D200A)	Aluminum
<b>20203</b>	(D200AB)	Painted Black
<b>20204</b>	(D200AW)	Painted White

<b>20210</b>	(D200AH)	Heated Economy Mirror, Aluminum
<b>20230</b>	(D200AHL)	Heated & Lighted Mirror, Aluminum

### Combination West Coast Mirrors

- Includes convex spot mirror inside of single head

<b>20250</b>	(700A)	6"x 16" Mirror with 6"x 4" Convex, Aluminum
<b>20251</b>	(700)	6"x 16" Mirror with 6"x 4" Convex, Stn. Steel
<b>20253</b>	(700B)	6"x 16" Mirror with 6"x 4" Convex, Black
<b>20351</b>	(850)	7"x 16" Mirror with 7"x 5" Convex, Stn. Steel



20351



20251

## 7" x 16" Flange Mount West Coast Mirrors



- OEM replacement mirror fits International S-series & other trucks
- Full vinyl gasketed insulated mirror glass
- Heated mirrors feature International "bullet" door plug

- 20000** Flange Mounted West Coast Mirror, Aluminum
- 20001** Flange Mounted West Coast Mirror, Stainless Steel
- 20003** Flange Mounted West Coast Mirror, Painted Black
- 20080** Heated, Aluminum, with International Plug, **Drivers Side**
- 20090** Heated, Aluminum, with International Plug, **Passenger**

20000



20080



## 7" x 16" OEM Style West Coast Mirrors

- OEM replacement mirror fits Peterbilt, Kenworth, Western Star, etc
- 5/16"-18 stainless steel mounting studs
- Full vinyl gasketed insulated mirror glass
- Heated/Lighted mirrors wired for 12 volt systems with 60" leads

- 20301** (800) Stainless Steel
- 20311** (1100) Heated, Stainless Steel
- 20321** (900L) Lighted, Stainless Steel
- 20331** (900HL) Heated & Lighted Mirror, Stainless Steel
- 20333** (900X) Heated & Lighted Mirror, Painted Black
- 20366** Heated, Painted UPS Brown, **1st Surface Glass**
- 20396** Heated, Brown, **1st Surface Glass, w/Int'l plug**



20301



20311



20331

## 7"x 16" Pyramid Back West Coast Mirrors

- OEM replacement mirror fits GM, Ford, Sterling, Mack, International
- 5/16"-18 stainless steel mounting studs
- Full vinyl gasketed insulated mirror glass
- Includes adapters for International 4700-4900 series trucks
- Heated mirrors wired for 12 volt systems with 60" wire leads

- 20601** (716S) Stainless Steel
- 20603** (716B) Painted Black
- 20604** (716W) Painted White
- 20605** Painted Gray
- 20611** (716SH) Heated, Stainless Steel
- 20613** Heated, Painted Black
- 20641** Heated & Lighted, Stainless Steel, **Drivers Side**
- 20651** Heated & Lighted, Stainless Steel, **Pass. Side**



20601



20651



20641

**7" x 16" Box Back West Coast Mirrors****20701****20731**

- OEM replacement mirror head fits Freightliner, Sterling and others
- 5/16"-18 rod through construction
- Full vinyl gasketed insulated mirror glass
- Heated/Lighted mirrors wired for 12 volt systems with 60" leads

<b>20700</b>		Economy, Aluminum
<b>20701</b>	(916S)	Stainless Steel
<b>20703</b>		Painted Black
<b>20704</b>		Painted White

<b>20710</b>		Heated, Aluminum
<b>20711</b>		Heated, Stainless Steel
<b>20713</b>		Heated, Painted Black
<b>20731</b>		Heated & Lighted, Stainless Steel
<b>20733</b>		Heated & Lighted, Painted Black

**7" x 16" Rib Back West Coast Mirrors****24403****24401**

- 5/16"-18 stainless steel mounting studs
- Full vinyl gasketed insulated mirror glass

<b>24401</b>	(18S)	Stainless Steel
<b>24403</b>	(17B)	Painted Black
<b>24404</b>	(17W)	Painted White

<b>24411</b>	(18SH)	Heated, Stainless Steel
<b>24413</b>	(17RBH)	Heated, Painted Black
<b>24414</b>	(17RWH)	Heated, Painted White

<b>24443</b>	(1200RB)	Heavy Duty Rib Back, Painted Black
<b>24444</b>	(1200RW)	Heavy Duty Rib Back, Painted White

**7" x 16" Bubble Back West Coast Mirrors****25501****25504**

- 5/16"-18 stainless steel mounting studs
- Full vinyl gasketed insulated mirror glass

<b>25501</b>	(22S)	Stainless Steel
<b>25503</b>	(21B)	Painted Black
<b>25504</b>	(21W)	Painted White

<b>25511</b>	(22SH)	Heated, Stainless Steel
<b>25513</b>	(21BH)	Heated, Painted Black

<b>25543</b>	(1200BB)	Heavy Duty Bubble Back, Painted Black
<b>25544</b>	(1200BW)	Heavy Duty Bubble Back, Painted White

## “TRACKER”

### Motorized West Coast Mirror

- OEM styled 7" x 16" mirror head
- Easily fits most West Coast brackets
- Designed for 12 volt systems
- Bright stainless steel finish
- Light 5 lbs weight reduces excess weight of competitive mirrors
- Replaceable heater element, vinyl gasket and mirror glass
- Manual adjustment won't strip gear teeth
- Full vinyl gasketed insulated mirror glass
- Toggle switches included with 72" wire leads
- Limited two year warranty
- Lighted version available



- 21101** (1000) Motorized, Heated, Stainless Steel
- 21103** Motorized, Heated, Painted Black
- 21131** (1001) Motorized, Heated & Lighted, Stainless Steel
- 21133** Motorized, Heated & Lighted, Painted Black
- 21181** Motorized, Heated, 12" lead w/male connector
- 21191** Motorized Heated, 10' leads & Packard connectors

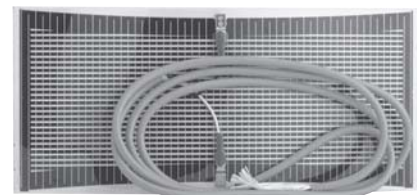


- 20311** (1100) Non-Motorized, Heated, Stainless Steel
- 20313** Non-Motorized, Heated, Painted Black
- 21231** (1011) Non-Motorized, Heated & Lighted, Stn.Steel
- 21233** Non-Motorized, Heated & Lighted, Black

### Replacement Heater Elements

- Includes 2 conductor pigtail leads

- 70601** (TB575) West Coast Heating Element, 5" x 14", 12 Volt
- 70602** (TB550) Small Heating Element, 4" x 6", 12 Volt
- 70603** West Coast Heating Element, 24 Volt



70601

### West Coast Replacement Glass Kits

- Includes applied heater element and vinyl gasket



- 70609** Glass Kit for Motorized Mirrors
- 70109** Glass Kit for 6" x 16" Mirrors (201 series)
- 70309** Glass Kit for 7" x 16" OE Mirrors (203 series)
- 70509** Glass Kit for 7" x 16" Pyramid Mirrors (206 series)
- 70709** Glass Kit for 7" x 16" Box Mirrors (207 series)



70609

## Fender Mounted Assembly Kits

- Fits most fiberglass, steel, and aluminum fenders & hoods
- Assembly kits include convex mirror head
- Heated mirror assemblies have 120" leads
- Assemblies include nickelplated brass compression nuts
- Stainless steel units have stainless steel fasteners



- 60111** (5022-19S) Tripod Assembly w/8.5" Convex, Stainless Steel
- 60113** (5022-19B) Tripod Assembly w/8.5" Convex, Painted Black
- 60121** (5012-19S) Deluxe Mini-Assembly w/8.5" Convex, Stn. Steel
- 60161** Deluxe Mini-Assembly w/Offset 8.5" Convex, SS
- 60131** (5022-19SH) Heated Tripod Kit w/8.5" Convex, Stn. Steel
- 60133** (5022-19BH) Heated Tripod Kit w/8.5" Convex, Black
- 60141** (5022-19DS) Tripod Assembly w/Wide Angle Convex, Stn. Stl.
- 60143** (5022-19DB) Tripod Assembly w/Wide Angle Convex, Black
- 60151** (5016-19S) Shortened Tripod Assembly w/8.5" Convex, SS  
**(fits newer aerodynamic styled trucks)**
- 60153** (5016-19B) Shortened Tripod Assembly w/8.5" Convex, Black

## TRIPOD REPLACEMENT PARTS

- 5009** 5/8" x 15" Stainless Steel Tube
- 5023** "Goose Neck" Arm, 3/4" Tube, Stainless Steel
- 5024** 3/4" non-adjustable Tube, Stainless Steel
- 5026** Bell Mount Assembly

## Hood Mounted Assembly Kits

- Fits most fiberglass, steel, and aluminum fenders & hoods
- Assembly kits include convex mirror head
- Assemblies include nickelplated brass compression nuts
- Pod mounted assemblies include both straight and curved arms



- 60171** Heavy Duty Hood Mounted Assembly with 8.5" convex, Stainless Steel
- 60181** Heavy Duty Hood Mounted Assembly with Heated 8.5" convex, Stainless Steel
- 60191** Heavy Duty Hood Mounted Assembly with 8.5" wide angle convex, Stainless Steel

## Fender & Hood Mounted Brackets

- Brackets include nickelplated brass compression nuts
- Stainless steel units have stainless steel fasteners

- 60001** (5016) Shortened Tripod Bracket, Stainless Steel  
**60011** Hood Mounted Bracket with straight & curved extensions, Stainless Steel  
**60101** (5020) Heavy Duty Tripod Bracket, Stainless Steel  
**60103** (5021) Heavy Duty Tripod Bracket, Painted Black



## Single Arm Mounting Brackets

- Includes bell mount & gaskets
- Arm adjusts from 10" to 15"

- 60201** (5010) Stainless Steel  
**60203** (5011) Painted Black



## C.O.E. Blind Side Mounting Brackets

- Increases driver vision to right side and front of vehicle
- Mounts to existing brackets

- 60301** (5030) Stainless Steel  
**60303** (5031) Painted Black  
**60311** With adjustable 3rd leg, Stainless Steel

60701



- 60701** (5040) 5" Extension Bracket, Stainless Steel  
**60801** (5041) 7" Extension Bracket, Stainless Steel

60801



## C.O.E. Blind Side Assembly Kits

- Assembly kits includes 8.5" convex mirror head
- Increases driver vision to right side and front of vehicle
- Mounts to existing brackets

- 60401** (5032-19S) Stainless Steel  
**60411** With adjustable 3rd leg, Stainless Steel  
**60501** (5033-19DS) With Wide Angle 8.5" Convex, Stainless Steel



60401

## Universal Mirror Mounting Kits

- Mounts to either 5/8" or 3/4" brackets

- 70201** (TB557S) Universal Mounting Kit, Stainless Steel  
**70208** (TB557Z) Universal Mounting Kit, Zinc Plated Steel



70201

**Universal West Coast Mirror Assembly Kits**



60611

- Bracket extends from cab 18"-23" as needed
- Includes mirror head, outer yoke, clamps, & hardware
- Fits most conventional style trucks

- 60610** Economy Assembly (w/20100, 60604, & 70704)
- 60611** Stainless Steel Assembly (w/20301, 60601, & 70701)
- 60613** Painted Black Assembly (w/20603, 60603, & 70703)
- 60614** Painted White Assembly (w/20604, 60604, & 70704)



**NEW**

60699

60696

**Custom West Coast Bracket Kits**

- Brackets fit: International trucks.
- Kits include brackets, outer yoke, clamps, & hardware

- 60699** International Truck S-series (4000-4700) West Coast Kit, Aluminum
- 60696** Mack Trucks, Stainless Steel (R-Series)

**Jr. West Coast Mirrors and Assemblies**

- Easily added to most trucks, vans, or RV's
- Kits include mirror head & mounting hardware



20852

23901

- 26200** 6"x 11" Jr. West Coast Mirror, Aluminum
- 20801** 5"x 10" Jr. West Coast Mirror, Stainless Steel
- 20811** (725) 5"x 10" Heated, Stainless Steel

- 20851** 5"x 10" Jr. West Coast "Tube Through" Mirror, SS
- 20852** 5"x 10" "Tube Through", Jr. WC Assembly, SS

- 20901** (516S) 6"x 10" Rib Back Mirror, Stainless Steel
- 20903** 6"x 10" Rib Back Mirror, Painted Black
- 20904** 6"x 10" Rib Back Mirror, Painted White

- 23901** 6"x 10" Jr. West Coast Assembly, Stn. Steel
- 70751** Jr. West Coast Yoke, Adjustable, Stn. Steel



20801

20901

26200

## West Coast Adjustable Brackets

- Adjusts from 18" to 23" as necessary
- Fits most conventional style trucks
- Brackets include nickelplated brass compression nuts
- Includes mounting hardware and instructions

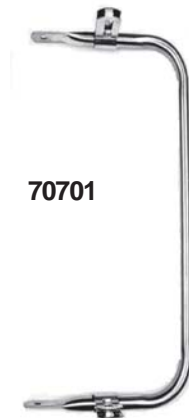
<b>60601</b>	(100S)	Stainless Steel
<b>60603</b>	(100B)	Painted Black
<b>60604</b>	(100W)	Painted White



## Heavy Duty Safety Yokes

- Extends mirror out from brackets
- Fits most conventional style trucks
- Can be used with West Coast Adjustable Brackets
- Extends out 9.75" with a span of 17"

<b>70701</b>	(5050)	Stainless Steel
<b>70703</b>	(5051)	Painted Black
<b>70704</b>		Painted White



## Extra Wide Heavy Duty Safety Yokes

- For use with extra wide trailers (102")
- Fits most conventional style trucks
- Can be used with West Coast Adjustable Brackets
- Extends out 12.75" with a span of 17"

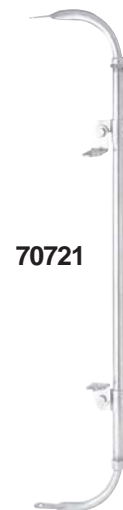
<b>70711</b>	(5052)	Stainless Steel
<b>70713</b>	(5053)	Painted Black
<b>70714</b>		Painted White



## C.O.E. Heavy Duty Adjustable Safety Yoke

- For use with most West Coast Mirrors
- Extends out 6" with an adjustable span of 28" to 42"

<b>70721</b>	(5060)	Stainless Steel
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## Emergency Vehicle Adjustable Safety Yoke

- For use with most West Coast, Step Van and Convex Mirrors
- Extends out 9" with an adjustable span of 28" to 42"

<b>70781</b>		Stainless Steel
<b>70784</b>		Painted White



**70311****70308****70301****Mounting Brackets**

- 70301** (8660) Large 90 degree, Stainless Steel  
**70308** (8710) 65 degree, Zinc Plated Steel  
**70311** (8680) Small 90 degree, Stainless Steel  
**70318** (8720) Small 90 degree, Zinc Plated

**70321****70323****Adjustable Mounting Brackets**

- 70321** "Swing-A-Way", Stainless Steel  
**70323** Adjustable Mounting Bracket, Painted Black

**70401****70501****"L" Mounting Brackets**

- 70401** (TB142S) "L" Bracket, Stainless Steel  
**70408** (TB142Z) "L" Bracket, Zinc Plated Steel

**Universal Steady Brackets**

- Extends from 10" to 15"

- 70501** (TB477S) Stainless Steel  
**70503** (TB477B) Painted Black

**70511****Mounting Kit**

- 70511** (TB559S) Stainless Steel  
**70518** (TB559Z) Zinc Plated Steel

## Extension Arms

- 5/8" inner tube, 3/4" outer tube with compression nut
- All Stainless steel or zinc plated with black powder coat paint

<b>70801</b>	(8003)	Extends 15"- 21" Length, Stainless Steel
<b>70803</b>	(8002)	Extends 15"- 21" Length, Painted Black
<b>70811</b>		Extends 17"- 25" Length, Stainless Steel
<b>70813</b>		Extends 17"- 25" Length, Painted Black
<b>70821</b>		Extends 10"- 15" Length, Stainless Steel
<b>70823</b>	(8001)	Extends 10"- 15" Length, Painted Black



## West Coast Mirror Adapters



- Use to adapt International Trucks mirror brackets to fit most any regular West Coast Mirror head

**70971** West Coast Mirror Adapters, Zinc Plated



**70971**

## Mirror Clamps

<b>70901</b>	(8630)	Clamp, 3/4" Tube, 3/8" Holes, Stainless Steel
<b>70908</b>	(8060)	Clamp, 2 Piece, Zinc Plated Steel
<b>70921</b>	(8610)	Clamp, 5/8" Tube, 1/4" Holes, Stainless Steel
<b>70931</b>	(8620)	Clamp, 3/4" Tube, 1/4" Holes, Stainless Steel
<b>70941</b>	(8615)	Clamp, 3/4" Tube, 3/8" Slot, Stainless Steel
<b>70961</b>		3/4" clamp, w/bolt and washer for step van mirrors
<b>70981</b>		Twist Clamp, fits 5/8" or 3/4" tubing, Stainless Steel



**70901**



**70908**



**70941**



**70981**



**70961**



**10.5" Cross View Mirror Assembly Kits**



- Kit includes large 10.5" convex mirror head
- Brackets fit most step, cargo, and delivery vans
- 5/16" Adjustable female ball stud and bolt

<b>40101</b>	10.5" Cross View Convex Mirror Assembly, Stn. Steel
<b>40104</b>	10.5" Cross View Convex Mirror Assembly, White
<b>40106</b>	10.5" Cross View Convex Mirror Assembly, UPS Brown
<b>46101</b>	10.5" Cross View Assembly, w/down bend bracket, SS
<b>40251</b>	10.5" Cross View Assembly, w/60931 tri-bracket, SS



**NEW**

**Cross View Mirror Brackets**

- Reinforced 3/4" tubing arms and heavy duty brackets
- Brackets fit most step, cargo, and delivery vans

<b>60901</b> (V911S)	Standard 11" Cross View Bracket, Stainless Steel
<b>60904</b> (V911W)	Standard 11" Cross View Bracket, Painted White
<b>60911</b>	Cross View Bracket, with Down Bend, Stainless Steel
<b>60921</b>	13" long Cross View Bracket, Stainless Steel

**NEW**

**12" Convex Mirror Assembly Kits**



- Reinforced 3/4" tubing arms and heavy duty brackets
- Brackets fit most step, cargo, and delivery vans

<b>40305</b>	12" Convex, Gray, w/ 60901 Bracket, Stainless Steel
--------------	-----------------------------------------------------

**8.5" Cross View Mirror Assembly Kits**



- Kit includes 8.5" convex mirror head
- Brackets fit most step, cargo, and delivery vans
- 5/16" Adjustable female ball stud and bolt

<b>40201</b>	8 1/2" Cross View Convex Mirror Assembly, Stn. Steel
<b>40203</b>	8 1/2" Cross View Convex Mirror Assembly, Black
<b>40204</b>	8 1/2" Cross View Convex Mirror Assembly, White
<b>40241</b>	8 1/2" Wide Angle Cross View Assembly, w/10891, SS
<b>60931</b>	Van Rear Cross View Tri-bracket, Stainless Steel
<b>60934</b>	Van Rear Cross View Tri-bracket, Painted White

**40201**

## Step Van Mirror Assemblies

- Fits most step, delivery and package vans
- Fits right or left side
- Assembly includes flat glass 6.5" x 10" head, 6.5" x 6" convex mirror head, cab feet, and mounting hardware
- Bracket span adjusts to from 18" to 33", extends out 9"

- 40401 Step Van Mirror Assembly, Stainless Steel  
 40403 Step Van Mirror Assembly, Painted Black  
 40404 Step Van Mirror Assembly, Painted White  
 40406 Step Van Mirror Assembly, Painted UPS Brown

40401



## Step Van Mirrors

- 40601 6 1/2"x 6" Step Van Mirror, Convex Glass, Strn. Steel  
 40603 6 1/2"x 6" Step Van Mirror, Convex Glass, Black  
 40604 6 1/2"x 6" Step Van Mirror, Convex Glass, White  
 40606 6 1/2"x 6" Step Van Mirror, Convex Glass, UPS Brown
- 41301 6 1/2"x 10" Step Van Mirror, Flat Glass, Stainless Steel  
 41303 6 1/2"x 10" Step Van Mirror, Flat Glass, Black  
 41304 6 1/2"x 10" Step Van Mirror, Flat Glass, White  
 41306 6 1/2"x 10" Step Van Mirror, Flat Glass, UPS Brown
- 41601 6 1/2"x 6" Step Van Mirror, Flat Glass, Stainless Steel  
 41603 6 1/2"x 6" Step Van Mirror, Flat Glass, Black  
 41604 6 1/2"x 6" Step Van Mirror, Flat Glass, White  
 41606 6 1/2"x 6" Step Van Mirror, Flat Glass, UPS Brown



41301



40601

## Step Van Replacement Glass

- 40000 Replacement Convex Glass, 6 1/2"x 6"  
 41000 Replacement Flat Glass, 6 1/2"x 6"  
 42000 Replacement Flat Glass, 6 1/2"x 10"

## Step Van Yokes



- 70791 Step Van Yoke, Adjustable, Stainless Steel  
 70794 Step Van Yoke, Adjustable, Painted White
- 70761 Step Van Yoke, 30"x 9", with Cab Feet, Stainless Steel  
 70763 Step Van Yoke, 30"x 9", with Cab Feet, Painted Black  
 70764 Step Van Yoke, 30"x 9", with Cab Feet, Painted White
- 70771 Step Van Yoke, 35"x 9", with Cab Feet, Stainless Steel  
 70773 Step Van Yoke, 35"x 9", with Cab Feet, Painted Black  
 70774 Step Van Yoke, 35"x 9", with Cab Feet, Painted White



70761  
(Mirror Heads  
not included)



70791

**30104****5.5" x 7.5" Light Duty Truck Mirror**

- General purpose mirror head
- Center mounted 5/16" adjustable female ball stud
- Ozone resistant vinyl gasket

**30101** (7S) Stainless Steel**30103** (7B) Painted Black**30104** (7W) Painted White**30151****NEW****6" x 8" Light Duty "Smooth Back" Mirror**

- General purpose mirror head
- Center mounted 5/16" adjustable female ball stud
- Ozone resistant vinyl gasket

**30151** Stainless Steel**30153** Painted Black**30154** Painted White**30201****5.5" x 7.5" Light Duty Truck Mirror**

- Fits # 50101 (MT-2) small tripod assembly
- Center bracket mount
- Ozone resistant vinyl gasket

**30201** (MT-2H) Stainless Steel**30203** (MT-2HB) Painted Black**30301****5.5" x 8.5" Light & Medium Truck Mirror**

- Perfect for moving & package delivery vehicles
- Offset mounted 5/16" adjustable female ball stud
- Ozone resistant vinyl gasket

**30301** Stainless Steel**30303** Painted Black**30304** Painted White**30401****6" x 9" Light & Medium Duty Truck Mirror**

- Universal 6" x 9" replacement head
- Fits # 50201 (MV-1) Maxi-Vu mirror assemblies
- Ozone resistant vinyl gasket

**30401** (MV-1H) Stainless Steel**30403** (MV-1HB) Matte Black Finish

## 7.5" x 10.5" Medium Duty Truck Mirror

- Fits # 50301 (MT-3) and # 50401 (MT-3WW) assemblies
- Ozone resistant vinyl gasket

<b>30501</b>	(MT-3H)	Stainless Steel
<b>30503</b>	(MT-3HB)	Painted Black
<b>30504</b>	(MT-3HW)	Painted White
<b>30511</b>	(MT-3HSH)	Heated, Stainless Steel
<b>30521</b>		Offset Mount, Stainless Steel



**30501**

## 7.5" x 10.5" Medium Duty Truck Mirror



- Center mounted 5/16" adjustable female ball stud
- Ozone resistant vinyl gasket

**30601** Center Mount w/5/16" Ball Stud, Stainless Steel

**30601**



## 7.5" x 10.5" Medium Duty Truck Mirror with Internal Elbow



- Replacement mirror for Ford, Chevrolet, and Dodge trucks
- Ozone resistant vinyl gasket
- Elbow length is 4"

<b>30701</b>	4" long elbow, Stainless Steel
<b>30704</b>	4" long elbow, Painted White
<b>31701</b>	5" long elbow, Stainless Steel
<b>32701</b>	6" long elbow, Stainless Steel

**30701**



**31701**



**32701**



## 6" x 9" Medium Duty Truck & Van Mirror



- Replacement mirror for Chevrolet trucks and vans
- Ozone resistant vinyl gasket

**30801** Stainless Steel

**30801**



## 5" x 8" OEM Style "Swing-Away" Mirror



- Replacement mirror for many late model pick-up trucks
- Stainless steel finish

<b>30461</b>	LH Mirror Head, Flat Glass
<b>30471</b>	RH Mirror Head, Convex glass

**30461**



**50101****Light Duty Tripod Assembly**

- Includes 5.5" x 7.5" mirror head, hardware & instructions
- Designed for small pick-up trucks
- Below eye level tripod bracket assembly
- Glass mounted in ozone resistant vinyl gasket

**50101** (MT-2) 5.5"x 7.5" Light Duty Tripod Assembly, Stn. Steel**50201****Maxi-Vu Light Duty Truck Assembly**

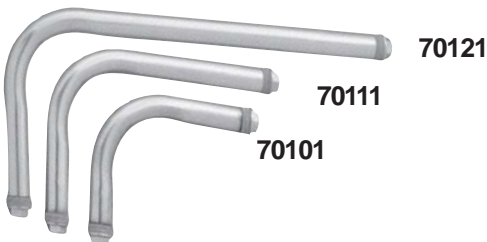
- Includes 6" x 9" mirror head, hardware & instructions
- Swing-a-way brackets give universal fit to most trucks
- Swings back against truck body on impact to ease damage
- Glass mounted in ozone resistant vinyl gasket

**50201** (MV-1) 6"x 9" Maxi-Vu Mirror Assembly, Stainless Steel**50203** (MV-1B) 6"x 9" Maxi-Vu Mirror Assembly, Matte Black**70800** (8750) Extension Arm, Aluminum, 4 3/8" long**50301****Medium Duty Tripod Assembly**

- Includes 7.5" x 10.5" mirror head, hardware & instructions
- Designed for full size pick-up trucks & vans
- Below eye level tripod bracket assembly
- Glass mounted in ozone resistant vinyl gasket

**50301** (MT-3) 7.5"x 10.5" Large Tripod Assembly, Stn. Steel**50303** (MT-3B) 7.5"x 10.5" Large Tripod Assembly, Black**50304** (MT-3W) 7.5"x 10.5" Large Tripod Assembly, White**Extension Brackets for Tripod Assemblies****70841**

- Extends mirror head out for added visibility when towing

**70802** (7925) 4" Stainless Steel Extension, Fine Threads**70841** (7924) 4" Stainless Steel Extension, Coarse Threads  
**(for Cham-Cal elbows and mirrors)****70101** (307S) 4.5" Offset Elbow Extension, Stainless Steel**70104** (307W) 4.5" Offset Elbow Extension, Painted White**70111** (310S) 7.5" Offset Elbow Extension, Stainless Steel**70121** (312S) 11.5" Offset Elbow Extension, Stainless Steel

## Heavy Duty Large Tripod Assembly

- Includes 7.5" x 10.5" mirror head, hardware & instructions
- Designed for full size pick-up trucks
- Extendable for trailer towing by swinging head out & rotating
- Glass mounted in ozone resistant vinyl gasket

- 50401** (MT-3WW) 7.5"x 10.5" Heavy Duty Assembly, Stn. Steel  
**50411** 7.5"x 10.5" Heated HD Assembly, Stn. Steel  
**50501** Heavy Duty Tripod Assembly, Stainless Steel  
 (Mirror Head not included)



**50401**

## Internal Elbow Large Tripod Assemblies



- Includes 7.5" x 10.5" (#31701) mirror head, hardware & instructions
- Designed for full size pick-up trucks
- Extendable for trailer towing by swinging head out
- Glass mounted in ozone resistant vinyl gasket

- 50701** 7.5"x 10.5" Internal Elbow Assembly, Stn. Steel  
**50704** 7.5"x 10.5" Internal Elbow Assembly, White  
**50801** 7.5"x 10.5" Internal Elbow HD Assembly, Stn. Stl.



**50701**



**50801**

## Extension Arm for Tripod Assemblies

- Adds convex or flat glass spot mirror to assemblies

- 70851** (8590) Extension Arm, 9.5" long, 90 degree twist, with 8.25" hole centers, Stainless Steel

**70851**





10803



10893



40203



20303



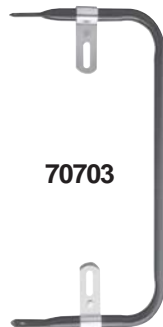
20603



20703



40303



70703

**Convex Mirrors**

- 10703 (20B) 7.5" Convex Mirror, Painted Black
- 10803 (19B) 8.5" Convex Mirror, Painted Black
- 10713 (20BH) 7.5" Convex Mirror, Heated, Painted Black
- 10813 (19BH) 8.5" Convex Mirror, Heated, Painted Black
  
- 12703 (20BOS) 7.5" Convex, Offset Stud, Painted Black
- 12803 (19BOS) 8.5" Convex, Offset Stud, Painted Black
- 12713 (20BOSH) 7.5" Convex, Offset, Heated, Painted Black
- 12813 (19BOSH) 8.5" Convex, Offset, Heated, Painted Black
  
- 10893 (19DB) 8.5" Wide Angle Convex Mirror, Painted Black
- 10903 (V910B) 10.5" Cross Over Convex Mirror, Painted Black

**Mirror Safety Assembly Kits**

- Includes 8.5" black painted convex mirror
  
- 40203 (V8-B) 8.5" Cross View Convex Mirror Assembly, Black
- 60173 Hood Mounted Assembly w/8.5" convex, Black

**West Coast Mirrors**

- 20103 (13B) 6" x 16" West Coast Mirror, Painted Black
- 20113 (13BH) 6" x 16" Heated West Coast Mirror, Painted Black
- 20133 (14BHL) 6" x 16" Heated & Lighted Mirror, Painted Black
  
- 20203 (D200AB) 6" x 16" Economy West Coast Mirror, Black
- 20253 (700B) 6" x 16" Combo Mirror with 6"x 4" Convex, Black
- 20303 (800B) 7" x 16" OEM West Coast Mirror, Black
  
- 20333 (900X) 7" x 16" OEM Heated & Lighted Mirror, Black
- 20603 (716B) 7" x 16" Pyramid Back West Coast Mirror, Black
- 20613 7" x 16" Heated Pyramid Back Mirror, Black
  
- 20703 7" x 16" Box Back West Coast Mirror, Black
- 20713 7" x 16" Heated Box Back West Coast Mirror, Black
  
- 24403 (17B) 7" x 16" Rib Back West Coast Mirror, Painted Black
- 24413 (17RBH) 7" x 16" Heated Rib Back Mirror, Painted Black

**Brackets and Assemblies**

- 40303 (119B) School Bus Fender Bracketry, Painted Black
- 60103 (5021) Heavy Duty Tripod Fender Bracketry, Black
- 60303 (5031) Blind Side Bracket, Painted Black
  
- 60603 (100B) West Coast Bracketry, Painted Black
- 70703 (5051) Safety Yoke, Painted Black

## Oval Light Brackets

- Stainless steel construction
- Fits most oval lights
- 2 per individual box

<b>90011</b>	Single Light Bracket
<b>90012</b>	Dual Light Bracket
<b>90013</b>	Triple Light Bracket
<b>90014</b>	Quad Light Bracket



**90011**



## Oval Light Safety Assemblies

- Stainless steel construction
- Includes gasket, amber light, and pigtail connection
- Individually boxed

<b>90001</b>	Single Oval Light Assembly, Stainless Steel
<b>90002</b>	Dual Oval Light Assembly, Stainless Steel
<b>90003</b>	Triple Oval Light Assembly, Stainless Steel
<b>90004</b>	Quad Oval Light Assembly, Stainless Steel

**90004**



**90003**



**90002**



**90001**



## Free Standing Floor Display

- An attractive way to sell mirrors
- Holds up to twenty mirrors
- Comes in three easily assembled pieces
- A great way to generate impulse sales

<b>SP220</b>	Floor Display Stand
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**SP220**



## Wall Display

- Helps promote and identify your products
- Designed to hold the popular West Coast & Convex Mirrors
- Can be customized to meet your specific needs

<b>SP590</b>	Mirror Wall Display
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**SP590**



**Clamshell features include: resealable packaging, visible product, attractive graphics, hang tabs, and UPC codes.**

**Package can be peg hung or free standing on self service displays for increased impulse sales.**



**Bulk packaged products are perfect for your large fleet customers.**

**Bulk packaged products do not include "L" brackets.**

### Clam Shell Retail Display Packaging

- |       |                                                       |
|-------|-------------------------------------------------------|
| 90501 | 5" Convex Mirror, Stainless Steel                     |
| 90503 | 5" Convex Mirror, Painted Black                       |
| 93501 | 5" Convex with Universal Mounting Bracket, Stn. Steel |
| 90601 | 6" Convex Mirror, Stainless Steel                     |
| 90603 | 6" Convex Mirror, Painted Black                       |
| 93601 | 6" Convex with Universal Mounting Bracket, Stn. Steel |
| 90701 | 7 1/2" Convex Mirror, Stainless Steel                 |
| 90703 | 7 1/2" Convex Mirror, Painted Black                   |
| 90711 | 7 1/2" Convex Mirror, Heated, Stainless Steel         |
| 92701 | 7 1/2" Convex Mirror, Offset Stud, Stainless Steel    |
| 92703 | 7 1/2" Convex Mirror, Offset Stud, Painted Black      |
| 92711 | 7 1/2" Convex, Offset Stud, Heated, Stainless Steel   |
| 90801 | 8 1/2" Convex Mirror, Stainless Steel                 |
| 90803 | 8 1/2" Convex Mirror, Painted Black                   |
| 90811 | 8 1/2" Convex Mirror, Heated, Stainless Steel         |
| 92801 | 8 1/2" Convex Mirror, Offset Stud, Stainless Steel    |
| 92803 | 8 1/2" Convex Mirror, Offset Stud, Painted Black      |
| 92811 | 8 1/2" Convex, Offset Stud, Heated, Stainless Steel   |

### Bulk Fleet Packaging

- |       |                                                                                   |
|-------|-----------------------------------------------------------------------------------|
| 80701 | 7.5" Convex Mirror, Stainless Steel<br><b>BULK PACK (50 piece minimum)</b>        |
| 80703 | 7.5" Convex Mirror, Painted Black<br><b>BULK PACK (50 piece minimum)</b>          |
| 82701 | 7.5" Offset Convex Mirror, Stainless Steel<br><b>BULK PACK (50 piece minimum)</b> |
| 82703 | 7.5" Offset Convex Mirror, Painted Black<br><b>BULK PACK (50 piece minimum)</b>   |
| 80801 | 8.5" Convex Mirror, Stainless Steel<br><b>BULK PACK (50 piece minimum)</b>        |
| 80803 | 8.5" Convex Mirror, Painted Black<br><b>BULK PACK (50 piece minimum)</b>          |
| 82801 | 8.5" Offset Convex Mirror, Stainless Steel<br><b>BULK PACK (50 piece minimum)</b> |
| 82803 | 8.5" Offset Convex Mirror, Painted Black<br><b>BULK PACK (50 piece minimum)</b>   |

## TOP 25 MIRROR PART NUMBERS

<b>NEW PART #</b>	<b>OLD PART #</b>	<b>DESCRIPTION</b>
10801	(19S)	8.5" Convex Mirror, Stainless Steel
20311	(1100)	7" x 16" OEM Heated West Coast Mirror, Stainless Steel
20100	(13A)	6" x 16" West Coast Mirror, Aluminum
12801	(19SOS)	8.5" Convex Mirror, Offset Stud, Stainless Steel
12701	(20SOS)	7.5" Convex Mirror, Offset Stud, Stainless Steel
20301	(800)	7" x 16" OEM West Coast Mirror, Stainless Steel
10601	(S4S)	6" Convex Mirror, Stainless Steel
10701	(20S)	7.5" Convex Mirror, Stainless Steel
21101	(1000)	7" x 16" Heated Motorized West Coast Mirror, Stn. Steel
60111	(5022-19S)	Heavy Duty Tripod Assembly with 8.5" Convex, Stn. Stl.
10803	(19B)	8.5" Convex Mirror, Painted Black
20331	(900HL)	7" x 16" OEM Heated & Lighted WC Mirror, Stn. Steel
10501	(S2S)	5" Convex Mirror, Stainless Steel
10481	(OD600)	4" x 8" Over Door Convex Mirror, Stainless Steel
20601	(716S)	7" x 16" Pyramid Back West Coast Mirror, Stn. Steel
24403	(17B)	7" x 16" Rib Back West Coast Mirror, Painted Black
20611	(716SH)	7" x 16" Heated Pyramid Back Mirror, Stainless Steel
20701	(916S)	7" x 16" Box Back West Coast Mirror, Stainless Steel
20711		7" x 16" Heated Box Back West Coast Mirror, Stn. Steel
60151	(5016-19S)	Shortened Tripod Assembly with 8.5" Convex, Stn. Stl.
60171		Hood Mount Assembly w/8.5" convex, Stainless Steel
20000		7" x 16" Flange Mount Mirror, Aluminum (Int'l S-series)
10300	(S16)	3.75" Round Stick-On Convex Mirror
10400	(S160)	4" x 5.5" Rectangular Stick-On Mirror
12703	(20BOS)	7.5" Convex Mirror, Painted Black



**Panoramic Rearview Panel Mirrors**

- Attractive matte black plastic finish housing
- Mounts easily above windshield - some drilling required
- Adds rearview vision for cars, trucks, vans, and carts

**39443** 4 panel mirror, 28" long, 2.75" high, 1.875" deep  
**39553** 5 panel mirror, 35" long, 2.75" high, 1.875" deep

**Interior Rearview Mirror**

- Attractive matte black plastic finish housing
- Flip-lever control for day/night use
- Includes glass mounting hardware

**39603** 10" wide mirror



## **MISSION STATEMENT**

*To build and provide the finest U.S. made OEM quality mirrors, brackets, and accessories for the commercial vehicle market.*

*To produce, maintain, and ship our standard products on time with a 98% or better first line order fill.*

*To provide fast, accurate, and friendly customer service to our customers.*

*To always strive to become better at what we do, because our best today, may not always meet your needs tomorrow.*

## **FREIGHT**

*Cham-Cal Engineering's prepaid freight policy, for orders shipped within the continental United States to one location, will be \$750.00 minimum per shipment.*

*We thank you for your support and understanding.*

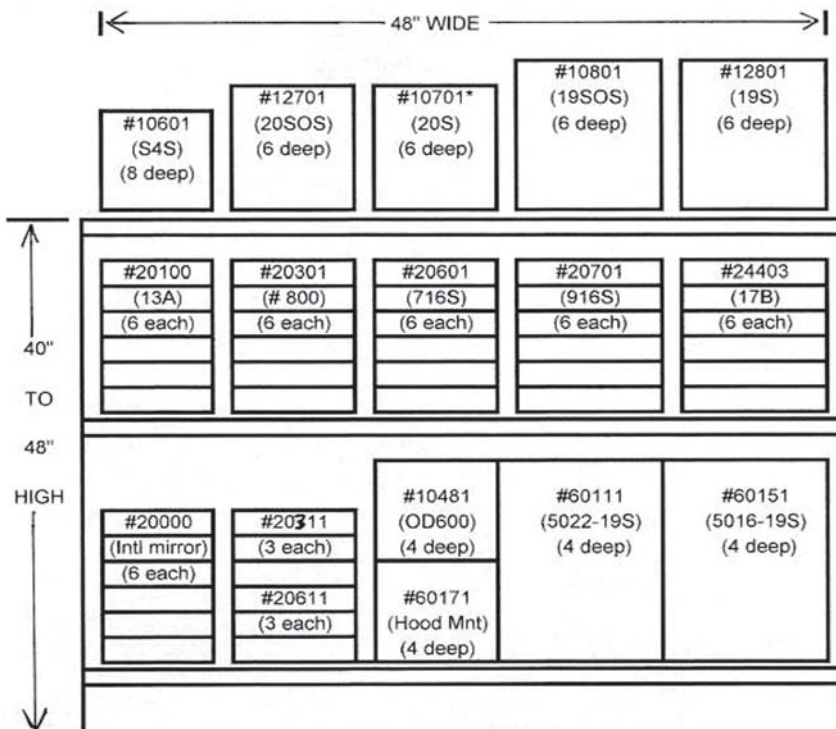
*Cham-Cal Engineering appreciates your business.*

## CHAM-CAL PART NUMBERING LEGEND

**1 2 8 1 1**

FIRST DIGIT (MIRROR TYPE)	SECOND DIGIT (SPOT MIRRORS)	THIRD DIGIT (SPOT MIRRORS)	FOURTH DIGIT (WEST COAST MIRRORS)	FIFTH DIGIT (MIRROR FINISH)
1 = CONVEX 2 = WEST COAST 3 = LGHT/MED DUTY MIRRORS 4 = STEP VAN MIRRORS 5 = LGHT/MED ASSEMBLIES 6 = HEAVY DUTY ASSEMBLIES 7 = YOKES, BRACKETS, CLAMPS 8 = OPEN 9 = LIGHT BRACKETS AND MIRROR GLASS 0 = OPEN	1 = FLAT GLASS 2 = OFFSET BALL STUD 3 = INCLUDES UNIVERSAL MOUNTING KIT 4-9 = OPEN <b>EXCEPTION - 12" CONVEX - USES "11" IN 2ND &amp; 3RD DIGIT</b>  (WEST COAST MIRRORS) 1 = MOTORIZED 2 = OPEN 3 = JR. WC ASSEMBLY 4 = HEAVY DUTY RIB BACK WC MIRROR 5 = HEAVY DUTY BUBBLE BACK WC MIRROR 6-9 = OPEN	1 = 2" ROUND CONVEX 2 = 3" ROUND CONVEX 3 = 3.75" ROUND CONVEX 4 = 4" RECTANGLE CONVEX 5 = 5" ROUND 6 = 6" ROUND 7 = 7.5" ROUND 8 = 8.5" ROUND 9 = 10.5" ROUND 0 = OPEN  (WEST COAST MIRRORS) 1 = 6"x 16" MIRROR 2 = D200A - 6"x 16" MIRROR 3 = OEM - 7"x 16" MIRROR 4 = RIB - 7"x 16" MIRROR 5 = BUBBLE - 7"x 16" MIRROR 6 = PYRAMID - 7"x 16" MIRROR 7 = BOX - 7"x 16" MIRROR 8 = 5"x 10" MIRROR JR. WEST COAST 9 = 6"x 10" MIRROR JR. WEST COAST 0 = FLANGE - 7"x 16" MIRROR  (LIGHT/MEDIUM DUTY MIRRORS) 1 = 5.5"x 7.5" MIRROR 2 = WING BACK 5.5"x 7.5" 3 = 5.5"x 8.5" MIRROR 4 = 6"x 9" MIRROR 5 = WING BACK 7.5"x 10.5" 6 = BALLSTUD 7.5"x 10.5" 7 = INNER ELBOW 7.5"x 10.5" 8, 9, 0 = OPEN	1 = HEATED 2 = LIGHTED 3 = HEATED & LIGHTED 4 = SPECIAL MIRROR DESIGN 5 = COMBO OR SPECIAL DESIGN 6 = FIRST SURFACE GLASS 7 = OPEN 8 = OPEN 9 = INTERNATIONAL PLUG 0 = OPEN  (SPOT MIRRORS) 1 = HEATED 2 = OPEN 3 = OPEN 4 = SEMI BUBBLE CONVEX MIRROR 5 = OPEN 6 = BULK PACKAGE 7 = CLAM SHELL PACKAGE 8 = 4"x 8" OVER DOOR MIRROR 9 = FULL BUBBLE CONVEX MIRROR  (SAFETY ASSEMBLIES) 1 = FULL SIZE TRIPOD ASSEMBLY 2 = DELUXE HOOD/FENDER TRI-MOUNT 3 = FULL SIZE TRIPOD W/HEATED MIRROR 4 = FULL SIZE TRIPODW/FULL BUBBLE CONVEX 5 = SHORTENED TRIPOD ASSEMBLY 6 = DELUXE TRI-MOUNT W/BELL WASHERS & GASKETS 7 = HOOD MOUNT ASSEMBLY 8 = HOOD MOUNT ASSEMBLY W/HEATED MIRROR 9 = HOOD MOUNT ASSEMBLY W/FULL BUBBLE CONVEX  (LIGHT BRACKETS) 0 = NO LIGHT - BRACKET ONLY 1 = COMPLETE LIGHT ASSEMBLY	0 = ALUMINUM 1 = STAINLESS STEEL 2 = CHROME PLATED 3 = BLACK PAINTED 4 = WHITE PAINTED 5 = GRAY PAINTED 6 = UPS BROWN 7 = OPEN 8 = ZINC PLATED 9 = SPECIAL FINISH  (LIGHT BRACKETS) 1 = SINGLE LIGHT 2 = TWO LIGHTS 3 = THREE LIGHTS 4 = FOUR LIGHTS

### CHAM-CAL MIRROR PLAN-O-GRAM



SHELF DEPTH IS ~24" DEEP.

\*NOTE- COULD SUBSTITUTE #10803 (19B) FOR #10701(20S), IF SALES ARE STRONGER ON 8" CONVEX MIRRORS.

POSITION SHELF 14" TO 21" BELOW UPPER SHELF. CAN BE STACKED 6 HIGH OR STOOD ON END 6 DEEP. ADJUST SHELF HEIGHT TO 21" FROM TOP SHELF IF STANDING PRODUCT ON END.

POSITION SHELF 24" BELOW UPPER SHELF

BOTTOM SHELF ITEMS CAN BE STACKED OR STOOD ON END AS SHOWN. PRODUCT MIX CAN BE CHANGED AT DEALER DISCRETION.

## LIMITED WARRANTY

Cham-Cal Engineering warrants that the mirror assemblies, brackets, and hardware shall be free from defects in factory materials and workmanship made or supplied by Cham-Cal Engineering under normal use and service, with the exception of all mirror glass, for a period of one (1) year from date of purchase.

Cham-Cal Engineering at its discretion will repair any defective part or if necessary replace any defective part. The replacement shall be the exclusive remedy under this warranty and Cham-Cal Engineering shall not be responsible for any costs or expenses incidental thereto, including but not limited to transportation, freight, postage, removal/installation charges, sellers profits, and other expenses. The party making a claim under this warranty shall be solely responsible for any such incidental costs or expenses.

### WARRANTY PROVISIONS

This warranty shall not extend to any of Cham-Cal Engineering's products or any parts thereof which defects in equipment have been caused by use of incompatible chemicals or cleaners, misuse, neglect, water damage, unauthorized alterations or repairs, or damage caused during shipment due to inadequate packaging or mishandling.

Cham-Cal Engineering shall not be liable for incidental or consequential damages, including but not limited to: Loss of use of vehicle, Rental of substitute vehicle, Loss of time, Loss of work, Inconvenience, Transportation expenses, Telephone, Lodging, loss of revenue, Loss of and/or damage to personal property for or arising out of breach of any express or implied warranty of its products.

This warranty is expressly in lieu of all other express or implied warranties, including the implied warranty of merchantability and the implied warranty of fitness for a particular purpose, and all the obligations or liabilities on the part of Cham-Cal Engineering. There are no warranties, unless expressed in authorized Cham-Cal Engineering literature, which extend beyond the description of the face hereof. No dealer, distributor, employee, or representative of the company is authorized to change this warranty in any way or to grant any other warranty.

This warranty gives you specific legal rights, and you may have other rights that vary from state to state. Some states do not allow limitations on how long an implied warranty lasts, so the above limitations may not apply to you. Further, some states do not allow the exclusion or limitation of incidental or consequential damages so the above limitation or exclusion may not apply to you.

### WARRANTY APPLICATION

- A) to the first wholesale purchaser of Cham-Cal Engineering/*OPEN ROAD TRUCK MIRRORS* products; and
- B) to the first retail purchaser of Cham-Cal Engineering/*OPEN ROAD TRUCK MIRRORS* products; and not to any subsequent party.

### WARRANTY RETURN AND REPLACEMENT INSTRUCTIONS

To be eligible for limited warranty consideration, either contact Cham-Cal Engineering at (800) 343-7219 or (714) 898-9721. Upon issuance of a return goods authorization number, return the failed product, freight prepaid to Warranty Department at Cham-Cal Engineering, 12722 Western Avenue, Garden Grove, CA 92841. Any product covered under the terms of the respective limited warranty will be replaced directly to the original purchaser only. Items received by Cham-Cal Engineering will not be returned unless accompanied by a specific written request. The product to be returned will be those items not covered under the warranty and will be returned to the sender freight collect.





***Cham-Cal  
Engineering proudly  
offers a complete  
line of top quality  
rear view mirrors  
for the heavy duty  
trucking industry.***

***Cham-Cal warrants  
all mirrors to be  
free of defects in  
materials and  
workmanship up to  
one year from the  
date of delivery.***

***Headquarters  
12722 Western Ave.  
Garden Grove  
California  
92841***

***Tel 714 898 9721  
Fax 714 897 9359  
or  
Call Toll Free***

***1 (800) 343-7219***





**OPEN ROAD TRUCK MIRRORS**  
 by **Cham-Cal Engineering Company**  
 (714) 898-9721 • (800) 343-7219 • FAX (714) 897-9359  
 12722 Western Avenue • Garden Grove, California 92841

**The reprinted version of OPEN ROAD catalog 02CCE is recognized by finding lines for notes inside the front cover. Since the reprinting, the following items have been discontinued:**

<u>P/N</u>	<u>Page Ref</u>	<u>Description</u>
10713	3	7.5" Heated Convex Mirror, Painted Black
12713	3	7.5" Heated Convex Mirror, Offset Stud, Painted Black
10806	3	8.5" Convex Mirror, Painted UPS Brown
12806	3	8.5" Convex Mirror, Offset Stud, Painted UPS Brown
10906	5	10.5" Cross Over Convex Mirror, Painted UPS Brown
20001	7	7" x 16" Flange Mount West Coast Mirror, Stainless Steel
20003	7	7" x 16" Flange Mount West Coast Mirror, Painted Black
20366	7	7" x 16" OEM Style West Coast Mirror, Heated, Painted UPS Brown, 1 <sup>st</sup> Surface Glass
20396	7	7" x 16" OEM Style West Coast Mirror, Heated, Painted UPS Brown, 1 <sup>st</sup> Surface Glass w/ Int'l plug
24443	7	7" x 16" Heavy Duty Rib Back West Coast Mirror, Painted Black
24444	7	7" x 16" Heavy Duty Rib Back West Coast Mirror, Painted White
25511	8	7" x 16" Bubble Back West Coast Mirror, Heated, Stainless Steel
25513	8	7" x 16" Bubble Back West Coast Mirror, Heated, Painted Black
25543	8	7" x 16" Heavy Duty Bubble Back West Coast Mirror, Painted Black
25544	8	7" x 16" Heavy Duty Bubble Back West Coast Mirror, Painted White
70301	14	Large 90 degree Mounting Bracket, Stainless Steel
70981	15	Mirror Twist Clamp for 5/8" or 3/4" Tubing, Stainless Steel
40106	16	10.5" Cross View Convex Mirror Assembly, Painted UPS Brown
40406	17	Step Van Mirror Assembly, Painted UPS Brown
40606	17	6.5" x 6" Step Van Mirror, Convex Glass, Painted UPS Brown
41306	17	6.5" x 10" Step Van Mirror, Flat Glass, Painted UPS Brown
41606	17	6.5" x 6" Step Van Mirror, Flat Glass, Painted UPS Brown
30401	18	6" x 9" Light & Medium Duty Truck Mirror, Stainless Steel
30521	19	7.5" x 10.5" Medium Duty Truck Mirror, Offset Mount, Stainless Steel
30801	19	6" x 9" Medium Duty Truck & Van Mirror, Stainless Steel
30461	19	5" x 8" OEM Style "Swing-Away" Mirror, Left Hand Mirror Head, Flat Glass, Stainless Steel
30471	19	5" x 8" OEM Style "Swing-Away" Mirror, Right Hand Mirror Head, Convex Glass, Stainless Steel
50201	20	6" x 9" Maxi-Vu Mirror Assembly, Stainless Steel
60173	22	Hood Mounted Safety Mirror Assembly, with 8.5" Convex, Painted Black
SP220*	23	[cardboard] Floor Display
39603	26	10" Wide Interior Rear View Mirror

**Other changes:**

The minimum purchase quantity for Bulk Fleet Packaged items listed on page 24 has been reduced from 50 pieces to 10 pieces.

\* Now see our new Open Road 5ft (SP535) and 6ft (SP635) metal triangle display rack solutions.

20250            6            This 6" x 16" combo mirror is now based on D200A style