

## CHAM-CAL ENGINEERING



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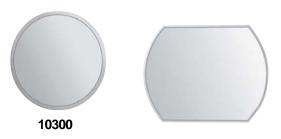
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### **CONVEX MIRRORS**





#### 10400



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

10100	(S2)	2" Round Mirror
10103	(S2-3)	2" Round Mirror, BULK Pack
10200	(S3)	3" Round Mirror
10203	(S3-3)	3" Round Mirror, BULK Pack
10300	(S16)	3.75" Round Mirror
10303	(S16-3)	3.75" Round Mirror, BULK Pack
10400	(S160)	4" x 5.5" Rectangular Mirror
10403	(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	(S2S)	Stainless Steel
10503	(S2B)	Painted Black
10504	(S2W)	Painted White

#### 5" Flat Glass Mirrors

11501	(S2FS)	Stainless Steel
11503	(S2FB)	Painted Black
11504	(S2FW)	Painted White

#### 6" Convex Mirrors

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

10601	(S4S)	Stainless Steel
10603	(S4B)	Painted Black
10604	(S4W)	Painted White
12601		Offset, Stainless Steel

#### 6" Flat Glass Mirrors

11601	(S4FS)	Stainless Steel
11603	(S4FB)	Painted Black
11604	(S4FW)	Painted White
12671		Offset, Stainless Steel



10501



10601

### **CONVEX MIRRORS**



#### 7.5" Convex Mirrors

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

10701	(20S)	Stainless Steel
10703	(20B)	Painted Black
10704	(20W)	Painted White

#### 7.5" Offset Convex Mirrors

12701	(20SOS)	Stainless Steel
12703	(20BOS)	Painted Black
12704	(20WOS)	Painted White

### 7.5" Heated Convex Mirrors

10711	(20SH)	Heated, Stainless Steel
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12711 (20SOSH) Offset Stud, Heated, Stainless Steel

#### 8.5" Convex Mirrors

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

10801	(19S)	Stainless Steel
10803	(19B)	Painted Black
10804	(19W)	Painted White

### 8.5" Offset Convex Mirrors

12801	(19SOS)	Stainless Steel
12803	(19BOS)	Painted Black
12804	(19WOS)	Painted White

### 8.5" Heated Convex Mirrors

(19SH)	Stainless Steel
(19BH)	Painted Black
(19SOSH)	Offset Stud, Stainless Steel
(19BOSH)	Offset Stud, Painted Black
	,



10701

12701



12801







### **SPECIALTY CONVEX MIRRORS**



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

### 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

10681H Heated, Stainless Steel

10683 Painted Black10684 Painted White



10681

#### 8.5" "Semi-Bubble" Convex Mirrors

- Increases visibilty 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 Steel10853 Painted Black10854 Painted White

12851 Offset Stud, Stainless Steel12853 Offset Stud, Painted Black12854 Offset Stud, Painted White



### 8.5" "Full Bubble" Wide Angle Convex Mirror

- Increases visibilty 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 Steel10893(19DB)Painted Black10894Painted White

12891 Offset, Stainless Steel
12893 Offset, Painted Black
12894 Offset, Painted White



### **SPECIALTY CONVEX MIRRORS**



#### 10.5" Cross Over Convex Mirror

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

10901	(V910S)	Stainless Steel
10903	(V910B)	Painted Black
10904	(V910W)	Painted White

10911 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

11103 Painted Black11104 Painted White11105 Painted Gray

11113 Heated, Painted Black11115 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

13501	(S402S)	5" Kit, Stainless Steel
13503	(S402B)	5" Kit, Painted Black
13504	(S402W)	5" Kit, Painted White
13601	(S404S)	6" Kit, Stainless Steel
13603	(S404B)	6" Kit, Painted Black
13604	(S404W)	6" Kit, Painted White
13701 13703 13704 13721	(420S) (420B) (420W) (420S)	7.5" Kit, Stainless Steel 7.5" Kit, Painted Black 7.5" Kit, Painted White 7.5" Kit, Offset, Stainless Steel
13801 13803		8.5" Kit, Stainless Steel 8.5" Kit, Painted Black



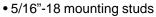
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20100

### **WEST COAST MIRRORS**

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



- Rod through construction
- Steel End caps for strength
- Full vinyl gasketed insulated mirror glass
- Heated/Lighted mirrors wired for 12 volt systems with 72" leads

20100	(13A)	Best Quality, Aluminum
20101	(13S)	Stainless Steel
20103	(13B)	Painted Black
20104	(13W)	Painted White
20110	(13AH)	Heated, Aluminum
20111	(13SH)	Heated, Stainless Steel
20113	(13BH)	Heated, Painted Black
20114	(13WH)	Heated, Painted White
20121	(14L)	Lighted, Stainless Steel
20123	(14BL)	Lighted, Painted Black
20130		Heated & Lighted, Aluminum
20131	(14HL)	Heated & Lighted, Stainless Steel
20133	(14BHL)	Heated & Lighted, Painted Black



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

20200	(D200A)	Aluminum
20203	(D200AB)	Painted Black
20204	(D200AW)	Painted White
20210	(D200AH)	Heated Economy Mirror, Aluminum
20230	(D200AHL)	Heated & Pod Lighted Mirror, Aluminum



### **Combination West Coast Mirrors**

• Includes convex spot mirror inside of single head

20250	(D200AC)	6"x 16" Mirror with 6"x 4" Convex, Aluminum
20251	(700)	6"x 16" Mirror with 6"x 4" Convex, Stn. Steel
20253	(D200ABC)	6"x 16" Mirror with 6"x 4" Convex, Black
20351	(850)	7"x 16" Mirror with 7"x 5" Convex, Stn. Steel

26200C 6"x 11" Jr. WC Combo Mirror w/ 6"x 4" Convex, Aluminum



20131





### **WEST COAST MIRRORS**

### OPEN ROAD

### 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
20005	Flange Mounted West Coast Mirror, Painted Gray
20080	Heated, Aluminum, with International Plug, Driver Side
20090	Heated, Aluminum, with International Plug, Passenger Side

[see list on pg 26 for LED lighted options]

### 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 72" leads

20301	(800)	Stainless Steel
20303	(800B)	Painted Black

20311 (1100) Heated, Stainless Steel

20311-24V Heated, Stainless Steel, for 24 volt systems

20313 Heated, Painted Black
20321 (900L) Lighted, Stainless Steel
20371 LED Lighted, Stainless Steel
20323 Lighted, Painted Black

20331 (900HL) Heated & Lighted, Stainless Steel
 20381 Heated & LED Lighted, Stainless Steel
 20333 (900X) Heated & Lighted, Painted Black

### 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 72" leads

20601	(716S)	Stainless Steel
20603	(716B)	Painted Black
20604	(716W)	Painted White
20605		Painted Gray

20611 (716SH) Heated, Stainless Steel20613 Heated, Painted Black

20641 Heated & Pod Lighted, Stainless Steel, Driver Side
 20651 Heated & Pod Lighted, Stainless Steel, Pass. Side
 20631L Heated & LED Lighted, Stainless Steel, Driver Side
 20631R Heated & LED Lighted, Stainless Steel, Pass. Side



20651



### **WEST COAST MIRRORS**





20731

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

- 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 72" leads

20700		Economy, Aluminum
20701	(916S)	Stainless Steel
20703		Painted Black
20704		Painted White
20710		Heated, Aluminum
20711		Heated, Stainless Steel
20713		Heated, Painted Black
20721		LED Lighted, Stainless Steel
20730		Heated & Lighted, Aluminum
20731		Heated & Lighted, Stainless Steel
20771		Heated & LED Lighted, Stainless Steel
20733		Heated & Lighted, Painted Black



24403



24401

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

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

24401	(18S)	Stainless Steel
24403	(17B)	Painted Black
24404	(17W)	Painted White
24411	(18SH)	Heated, Stainless Steel
24413	(17RBH)	Heated, Painted Black
24414	(17RWH)	Heated Painted White





7" x 16" Bubble Back West Coast Mirrors

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

25501	(22S)	Stainless Steel
25503	(21B)	Painted Black
25504	(21W)	Painted White

25504



### "TRACKER"

#### **Motorized West Coast Mirror**

- OEM style 7" x 16" mirror head
- Easily fits most West Coast brackets
- Designed for 12 volt systems
- · Bright stainless steel finish
- Light 5 lbs in weight is less than 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 96" leads

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

Non-motorized units w/ 72" leads and no switches **20311** (1100) Non-Motorized, Heated, Stainless Steel **20313** Non-Motorized, Heated, Painted Black

Lens position on Lighted Non-motorized matches motorized unit:

21231 (1011) Non-Motorized, Heated & Lighted, Stn. Steel

21233 Non-Motorized, Heated & Lighted, Black



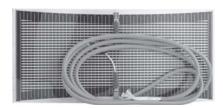
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### Replacement Heaters & Lens Kits

• Heater kits nclude 2 conductor pigtail leads

70601 (TB575) West Coast Heating Element, 12 Volt
 70602 (TB550) Small Jr. WC Heating Element, 12 Volt
 70603 West Coast Heating Element, 24 Volt

**70605** West Coast Amber Lens & Gasket Kit



70601

### West Coast Replacement Glass Kits

• Includes applied heater element and vinyl gasket

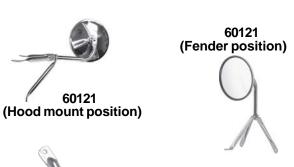
70609 Glass Kit for Motorized Mirrors (211 series)
70109 Glass Kit for 6" x 16" Mirrors (201 series)
70309 Glass Kit for 7" x 16" OE Mirrors (203 series)
70509 Glass Kit for 7" x 16" Pyramid Mirrors (206 series)
70708 Glass Kit for 7" x 16" Flange Mount Mirrors (200 series)
70709 Glass Kit for 7" x 16" Box Mirrors (207 series)





### **HEAVY DUTY SAFETY ASSEMBLIES**









### **Fender Mounted Assembly Kits**

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

60111 60113	(5022-19S) (5022-19B)	Tripod Assembly w/8.5" Convex, Stainless Steel Tripod Assembly w/8.5" Convex, Painted Black
60121 60161	(5012-19S)	Deluxe Mini-Assembly w/8.5" Convex, Stn. Steel Deluxe Mini-Assembly w/Offset 8.5" Convex, SS
60131 60133	(5022-19SH) (5022-19BH)	Heated Tripod Kit w/8.5" Convex, Stn. Steel Heated Tripod Kit w/8.5" Convex, Black
60141 60143	(5022-19DS) (5022-19DB)	Tripod Assembly w/Wide Angle Convex, Stn. Stl. Tripod Assembly w/Wide Angle Convex, Black
60151	(5016-19S)	Shortened Tripod Assembly w/8.5" Convex, SS (fits 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
- Base Arm Slide tube with compression nut & ring

#### Extendable assemblies (include both straight and curved arms):

**60171** Heavy Duty Hood Mounted Assembly, Adjustable arms, with 8.5" convex, Stainless Steel

**60181** Heavy Duty Hood Mounted Assembly, Adjustable arms, with Heated 8.5" convex, Stainless Steel

**60191** Heavy Duty Hood Mounted Assembly, Adjustable arms, with 8.5" wide angle convex, Stainless Steel

Non-extendable (comes with fixed straight arm only):

**69171** Heavy Duty Hood Mounted Assembly, Fixed straight arm, with 8.5" convex, Stainless Steel

### **HEAVY DUTY MIRROR BRACKETS**



#### Fender & Hood Mounted Brackets

- Slide tubes with compression nuts & rings
- Stainless steel units have stainless steel fasteners

60001 (5016) Shortened Tripod Bracket, Stainless Steel
 60101 (5020) Heavy Duty Tripod Bracket, Stainless Steel
 60103 (5021) Heavy Duty Tripod Bracket, Painted Black

**60011** Hood Mounted Bracket with straight & curved extensions, Stainless Steel

### Single Arm Mounting Brackets

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

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



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

**60301** (5030) Stainless Steel (used in 60401)

60303 (5031) Painted Black

60311 With adjustable 3rd leg, Stainless Steel

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

### 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 Steel60501 (5033-19DS) With Wide Angle 8.5" Convex, Stainless Steel

### **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

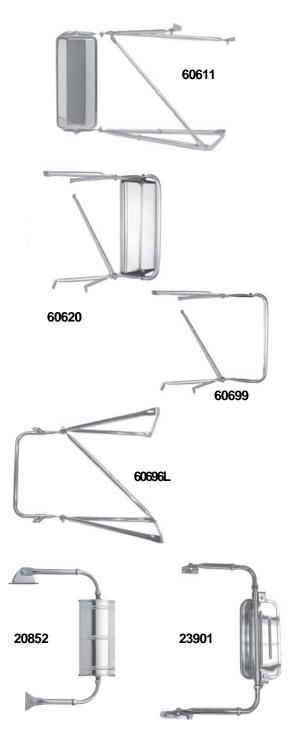








### **SPECIAL WEST COAST KITS**





- Bracket extends from cab 18"-23" as needed
- Includes mirror head, brackets, 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)

## West Coast Assembly Kits & Bracket Components for International S-Series (4000-4700)

60620 Complete Assembly Kit, Aluminum (60699 + 20000)
 60680 Heated Assembly Kit, Driver Side (60699 + 20080)
 60690 Heated, Assembly Kit, Pass Side (60699 + 20090)

60699 Complete Bracket-Only Kit (mirror head not included)

Replacement bracket components:

6010 Diagonal Brace, Aluminum
6020 West Coast Yoke, Aluminum
6030 Lower Mounting Bracket, Aluminum
6040 Upper Mounting Bracket, Aluminum

## West Coast Bracket-Only Kits for Mack R-Series

Kits include brackets, outer yoke, clamps & hardware
 60696L Mack Trucks, Stainless Steel, Driver Side
 60696R Mack Trucks, Stainless Steel, Passenger Side

### Jr. West Coast Mirrors and Assemblies

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

26200 26200C 20801 20811 (725) 20851	6"x 11" Jr. West Coast Mirror, Aluminum 6"x 11" Jr. WC Combo Mirror w/ 6"x 4" Convex, Alum. 5"x 10" Jr. West Coast Mirror, Stainless Steel 5"x 10" Heated, Stainless Steel 5"x 10" Jr. West Coast "Tube Through" Mirror, SS
20852	5"x 10" "Tube Through", Jr. WC Assembly, SS
20901 (516S) 20903 20904	6"x 10" Rib Back Mirror, Stainless Steel 6"x 10" Rib Back Mirror, Painted Black 6"x 10" Rib Back Mirror, Painted White

6"x 10" Jr. West Coast Assembly, Stn. SteelJr. West Coast Yoke, Adjustable, Stn. Steel



### West Coast Adjustable Brackets

- Adjusts from 18" to 23" as necessary
- Fits most conventional style trucks
- Slide tubes with compression nuts & rings
- Includes mounting hardware and instructions

60601 (100S) Stainless Steel60603 (100B) Painted Black60604 (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"

70701 (5050) Stainless Steel
 70703 (5051) Painted Black
 70704 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"

70711 (5052) Stainless Steel
 70713 (5053) Painted Black
 70714 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"

**70721** (5060) Stainless Steel

### **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"

70781 Stainless Steel70784 Painted White





### **MIRROR BRACKETS**



### **Mounting Brackets**

70308	(8710)	65 degree, Zinc Plated Steel
70311	(8680)	Small 90 degree, Stainless Steel
70318	(8720)	Small 90 degree, Zinc Plated Steel



### **Adjustable Mounting Brackets**

70321 "Swing-A-Way", Stainless Steel



70511

### "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



### **EXTENSION ARMS AND CLAMPS**



#### **Extension Arms**

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

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

### **Mirror Clamps**

70901	(8630)	Clamp, 3/4" Tube, 3/8" Holes, Stainless Steel
70907 70908	(8060)	Clamp, 2 Piece, Stainless Steel Clamp, 2 Piece, Zinc Plated Steel
70921	(8610)	Clamp, 5/8" Tube, 1/4" Holes, Stainless Steel
70931	(8620)	Clamp, 3/4" Tube, 1/4" Holes, Stainless Steel
70941 70948	(8615)	Clamp, 3/4" Tube, 3/8" Slot, Stainless Steel Clamp, 3/4" Tube, 3/8" Slot, Zinc Plated Steel
70961		3/4" clamp, w/bolt and washer for step van mirrors







70961



### STEP VAN MIRRORS & ASSEMBLIES



### 10.5" Cross View Mirror Assembly Kits

- Kit includes large 10.5" convex mirror head (# 1090X)
- Brackets fit most step, cargo and delivery vans
- 5/16" Adjustable female ball stud and bolt

40104 10.5" Cross View Convex Mirror Assembly, White 46101 10.5" Cross View Assembly, w/down bend bracket, SS 46104 10.5" Cross View Assembly, w/down bend bracket, White 40251 10.5" Cross View Assembly, w/60931 tri-bracket, SS



#### **Cross View Mirror Brackets**

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

60901 (V911S) Standard 11" Cross View Bracket, Stainless Steel 60904 (V911W) Standard 11" Cross View Bracket, Painted White 60911 Cross View Bracket, with down bend, Stainless Steel 60921 13" long Cross View Bracket, Stainless Steel 60814 Mounting Kit for Cross View Bracket, Painted White



### 12" Convex Mirror Assembly Kit

- Reinforced 3/4" tubing arms and heavy duty brackets
- Bracket fit most step, cargo and delivery vans
- Kit incluse 12" gray convex mirror 11105

40305 12" Gray Convex, w/ 60901 Stainless Steel Bracket



40201

### 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

40201 (V8-S) 8.5" Cross View Convex Mirror Assembly, Stn. Steel 40203 (V8-B) 8.5" Cross View Convex Mirror Assembly, Black 40204 (V8-W) 8.5" Cross View Convex Mirror Assembly, White 40241 8.5" Wide Angle Cross View Assembly, w/10891, SS

60931 Van Rear Cross View Tri-bracket, Stainless Steel 60934 Van Rear Cross View Tri-bracket, Painted White

### **STEP VAN MIRRORS & ASSEMBLIES**



### **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

### **Step Van Mirrors**

40601	6.5"x 6" Step Van Mirror, Convex Glass, Stainless Steel
40603	6.5"x 6" Step Van Mirror, Convex Glass, Black
40604	6.5"x 6" Step Van Mirror, Convex Glass, White
41301	6.5"x 10" Step Van Mirror, Flat Glass, Stainless Steel
41303	6.5"x 10" Step Van Mirror, Flat Glass, Black
41304	6.5"x 10" Step Van Mirror, Flat Glass, White
41601	6.5"x 6" Step Van Mirror, Flat Glass, Stainless Steel
41603	6.5"x 6" Step Van Mirror, Flat Glass, Black
41604	6.5"x 6" Step Van Mirror, Flat Glass, White

### Step Van Replacement Glass

40000	Replacement Convex Glass, 6.5"x 6"
41000	Replacement Flat Glass, 6.5"x 6"
42000	Replacement Flat Glass, 6.5"x 10"

**70791** Step Van Yoke, Adjustable, Stainless Steel

### Step Van Yokes

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







4000





### **LIGHT & MEDIUM DUTY MIRRORS**





#### 30151



### 30201



#### 30301





### 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

### 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 Steel30153 Painted Black30154 Painted White

### 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

### 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 Steel30303 Painted Black30304 Painted White

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

- Universal 6" x 9" replacement head
- Fits # 50203 (MV-1B) Maxi-Vu mirror assemblies
- Ozone resistant vinyl gasket

30403 (MV-1HB) Matte Black Finish

### **LIGHT & MEDIUM DUTY MIRRORS**



### 7.5" x 10.5" Medium Duty Truck Mirror

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

30501 (MT-3H) Stainless Steel

30503 (MT-3HB) Painted Black

30504 (MT-3HW) Painted White

30511 (MT-3HSH) Heated, Stainless Steel







30504

### 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

30603 Center Mount w/ 5/16" Ball Stud, Painted Black



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

30701 4" long elbow, Stainless Steel30704 4" long elbow, Painted White

31701 5" long elbow, Stainless Steel32701 6" long elbow, Stainless Steel







### **LIGHT & MEDIUM DUTY ASSEMBLIES**







70841

### **Light Duty Tripod Assembly**

- Includes 5.5" x 7.5" mirror head (# 30201), elbow (# 70101), tripod base brackets, 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

### Maxi-Vu Light Duty Truck Assembly

- Includes 6" x 9" mirror head (# 30403), 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

**50203** (MV-1B) 6"x 9" Maxi-Vu Mirror Assembly, Matte Black **70800** (8750) Extension Arm for MV, Aluminum, 4 3/8" long

### **Medium Duty Tripod Assembly**

- Includes 7.5" x 10.5" mirror head (# 3050X), elbow (# 70111), tripod base brackets, 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" Medium Duty Tripod Assembly, Stn. Steel
50303 (MT-3B) 7.5"x 10.5" Medium Duty Tripod Assembly, Black
50304 (MT-3W) 7.5"x 10.5" Medium Duty Tripod Assembly, White

### **Extension Brackets for Tripod Assemblies**

Extends mirror head out for added visibility when towing

70841 (7924) 4" Stainless Steel Extension, Coarse Threads (for Cham-Cal elbows and mirrors)

70101 (3078) 4.5" Offset Elbow Extension, Stainless Steel
70104 (307W) 4.5" Offset Elbow Extension, Painted White
70111 (3108) 7.5" Offset Elbow Extension, Stainless Steel
70121 (3128) 11.5" Offset Elbow Extension, Stainless Steel



### **Medium Duty Large Tripod Assembly**

- Includes 7.5" x 10.5" mirror head (# 305XX), elbow (# 70111), tripod base brackets, 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" Medium Duty Large Assy, Stn. Steel

50411 7.5"x 10.5" Heated MD Large Assy, Stn. Steel

Bracket-Only Kit:

50501 Medium Duty Large Tripod Bracket Kit, Stainless Steel (includes 50811 base bracket kit & 70111 elbow bracket; Mirror Head 305XX not included)

# **Medium Duty Internal Elbow Tripod Assemblies**

- Includes 7.5" x 10.5" mirror head (# 3170X), tripod base brackets, 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 Tripod Assembly, Stainless Steel

**50704** 7.5"x 10.5" Internal Elbow Tripod Assembly, White

50801 7.5"x 10.5" Internal Elbow Large Assembly, Stainless Steel

Base Bracket-Only Kit (to mount internal elbow mirrors):

50811 Medium Duty Large Base Bracket Kit, Stainless Steel (internal elbow mirror head 3X70X not included)

### **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







### **SCHOOL BUS MIRRORS & BRACKETS**



#### **Convex Mirrors**

10703	(20B)	7.5" Convex Mirror, Painted Black
10803	(19B)	8.5" Convex Mirror, 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
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



• Includes 8.5" black painted convex mirror

**40203** (V8-B) 8.5" Cross View Convex Mirror Assembly, 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 20603 20613 20703 20713	(900X) (716B)	7" x 16" OEM Heated & Lighted Mirror, Black 7" x 16" Pyramid Back West Coast Mirror, Black 7" x 16" Heated Pyramid Back Mirror, Black 7" x 16" Box Back West Coast Mirror, Black 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**

40301		School Bus Fender Bracketry, Stainless Steel
40303	(119B)	School Bus Fender Bracketry, Painted Black
60103	(5021)	Heavy Duty Tripod Fender Bracketry, Black
60303 60603 70703	(5031) (100B) (5051)	Blind Side Bracket, Painted Black West Coast Bracketry, Painted Black Safety Yoke, Painted Black

### **LIGHT BRACKETS & PANEL MIRRORS**



### **Oval Light Brackets**

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

90011 Single Light Bracket90012 Dual Light Bracket90013 Triple Light Bracket90014 Quad Light Bracket



### **Oval Light Safety Assemblies**

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

90001 Single Oval Light Assembly, Stainless Steel
 90002 Dual Oval Light Assembly, Stainless Steel
 90003 Triple Oval Light Assembly, Stainless Steel
 90004 Quad Oval Light Assembly, Stainless Steel



#### **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" deep39553 5 panel mirror, 35" long, 2.75" high, 1.875" deep





### SPECIAL PACKAGING









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.



(see page 26 for additional items)

90501 5" Convex Mirror, Stainless Steel90503 5" Convex Mirror, Painted Black

93501 5" Convex with Universal Mounting Bracket, Stn. Steel

90601 6" Convex Mirror, Stainless Steel90603 6" Convex Mirror, Painted Black

93601 6" Convex with Universal Mounting Bracket, Stn. Steel

90701 7.5" Convex Mirror, Stainless Steel90703 7.5" Convex Mirror, Painted Black

**90711** 7.5" Convex Mirror, Heated, Stainless Steel

92701 7.5" Convex Mirror, Offset Stud, Stainless Steel
92703 7.5" Convex Mirror, Offset Stud, Painted Black
92711 7.5" Convex. Offset Stud. Heated. Stainless Steel

90801 8.5" Convex Mirror, Stainless Steel90803 8.5" Convex Mirror, Painted Black

90811 8.5" Convex Mirror, Heated, Stainless Steel90851 8.5" Semi-Bubble Convex Mirror. Stainless Steel

92801 8.5" Convex Mirror, Offset Stud, Stainless Steel
92803 8.5" Convex Mirror, Offset Stud, Painted Black
92811 8.5" Convex, Offset Stud, Heated, Stainless Steel
92851 8.5" Offset Semi-Bubble Convex Mirror, Stainless Steel



### **Bulk Fleet Packaging**

("L" brackets not included)

7.5" Convex Mirror, Stainless Steel

BULK PACK (10 piece minimum)

**80703** 7.5" Convex Mirror, Painted Black

BULK PACK (10 piece minimum)

**82701** 7.5" Offset Convex Mirror, Stainless Steel

**BULK PACK (10 piece minimum)** 

**82703** 7.5" Offset Convex Mirror, Painted Black

**BULK PACK (10 piece minimum)** 

**80801** 8.5" Convex Mirror, Stainless Steel

**BULK PACK (10 piece minimum)** 80803 8.5" Convex Mirror, Painted Black

BULK PACK (10 piece minimum)

82801 8.5" Offset Convex Mirror, Stainless Steel

BULK PACK (10 piece minimum)

82803 8.5" Offset Convex Mirror, Painted Black

**BULK PACK (10 piece minimum)** 

Bulk packaged products are perfect for your large fleet customers.

Bulk packaged products do not include "L" brackets.

### **POPULAR PART NUMBERS**



### **GREAT SELLERS**

		OILE/II OLLELIIO	
NEW	OLD	4 DESCRIPTION	
PARI	<u># PART#</u>	<u>DESCRIPTION</u>	
10501	(S2S)	5" Convex Mirror, Stainless Steel	
10503	(S2B)	5" Convex Mirror, Painted Black	
10601	(S4S)	6" Convex Mirror, Stainless Steel	
10603	(S4B)	6" Convex Mirror, Painted Black	
10701	(20S)	7.5" Convex Mirror, Stainless Steel	
10703	(20B)	7.5" Convex Mirror, Painted Black	100
10801	(19S)	8.5" Convex Mirror, Stainless Steel	
10803	(19B)	8.5" Convex Mirror, Painted Black	
10811	(19SH)	8.5" Heated Convex Mirror, Stainless Steel	
10891	(19DS)	8.5" Wide Angle Convex Mirror, Stainless Steel	1
12701	(20SOS)	7.5" Convex Mirror, Offset Stud, Stainless Steel	
12703	(20BOS)	7.5" Convex Mirror, Painted Black	
12801	(19SOS)	8.5" Convex Mirror, Offset Stud, Stainless Steel	
12811	(19SOSH)	8.5" Heated Convex Mirror, Offset Stud, Stainless Steel	•
20000		7" x 16" Flange Mount Mirror, Aluminum (Int'l S-series)	
20100	(13A)	6" x 16" West Coast Mirror, Aluminum	
20101	` '	6" x 16" West Coast Mirror, Stainless Steel	
20301	(800)	7" x 16" OEM West Coast Mirror, Stainless Steel	
20311	(1100)	7" x 16" OEM Heated West Coast Mirror, Stainless Steel	
20331	(900HL)	7" x 16" OEM Heated & Lighted WC Mirror, Stn. Steel	
20601	(716S)	7" x 16" Pyramid Back West Coast Mirror, Stn. Steel	
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	
21101	(1000)	7" x 16" Heated Motorized West Coast Mirror, Stn. Steel	
24401	(18S)	7" x 16" Rib Back West Coast Mirror, Stainless Steel	
24403	(17B)	7" x 16" Rib Back West Coast Mirror, Painted Black	
60111	(5022-19S)	Heavy Duty Tripod Assembly with 8.5" Convex, Stn. Stl.	
60151	(5016-19S)	Shortened Tripod Assembly with 8.5" Convex, Stn. Stl.	
60171		Hood Mount Assembly w/8.5" convex, Stainless Steel	
		A	

60171 (straight arm)





### OPEN ROAD

### **ADDITIONAL ITEMS**

### **Spot Mirrors**

10681HL2 6" x 8" Rectangular Convex Mirror, Heated, LED (2) Lighted, Stainless Steel

Additional Spot Mirrors in clamshell display packaging:

90821-1 8.5" Convex Mirror, w/ 1 LED Light, Stainless Steel

90821-2L 8.5" Convex Mirror, w/ 2 LED Lights (driver side), Stainless Steel 90821-2R 8.5" Convex Mirror, w/ 2 LED Lights (pass side), Stainless Steel

90821-3 8.5" Convex Mirror, w/ 3 LED Lights, Stainless Steel

90831-1 8.5" Convex Mirror, Heated & w/ 1 LED Light, Stainless Steel

90831-2L 8.5" Convex Mirror, Heated & w/ 2 LED Lights (driver side), Stainless Steel 90831-2R 8.5" Convex Mirror, Heated & w/ 2 LED Lights (pass side), Stainless Steel

90831-3 8.5" Convex Mirror, Heated & w/ 3 LED Lights, Stainless Steel

91501 5" Flat Glass Round Mirror, Stainless Steel 91503 5" Flat Glass Round Mirror, Painted Black 91504 5" Flat Glass Round Mirror, Painted White 91601 6" Flat Glass Round Mirror, Stainless Steel 91603 6" Flat Glass Round Mirror, Painted Black 91604 6" Flat Glass Round Mirror, Painted White 92601 6" Convex Mirror, Offset Stud, Stainless Steel

92671 6" Flat Glass Round Mirror, Offset Stud, Stainless Steel





#### **West Coast Mirrors & Items**

20020L 7"x 16" LED Lighted Flange Mounted Mirror, w/International Plug, Alum, Driver Side 7"x 16" LED Lighted Flange Mounted Mirror, w/International Plug, Alum, Pass Side 7"x 16" Heated & LED Lighted Flange Mounted Mirror, w/Int'l Plug, Alum, Driver Side 7"x 16" Heated & LED Lighted Flange Mounted Mirror, w/Int'l Plug, Alum, Pass Side 7"x 16" Heated & CEM Style West Coast Mirror, SS, w/International plug.

7"x 16" Heated OEM Style West Coast Mirror, SS, w/International plug
 7"x 16" LED Lighted Pyramid Back Mirror, Stainless Steel, Driver Side
 7"x 16" LED Lighted Pyramid Back Mirror, Stainless Steel, Pass Side

21131-SP Socket with ~ 6" Pigtails and Bulb (for Lighted WC Mirrors)

21131-SW On-Off Toggle Switch for Heater or Light Control

21131-SWM On-Off-On Toggle Switch for Motor Control

70607 Frosted Lens & Gasket Kit

70731 Jr. West Coast Brackets Only (No Mirror)

for 20852, Stainless Steel

71001 Yoke Kit (for Peterbilt cab mount applications)

79773 Yoke, 25.5" x 9" w/cab feet, Painted Black

79774 Yoke, 25.5" x 9" w/cab feet, Painted White

### Open Road Triangle Display Rack Kits

Augment your POP sales with attractive display racks: SP535 5 ft Triangle Display rack (product not included) SP635 6 ft Triangle Display rack (product not included)





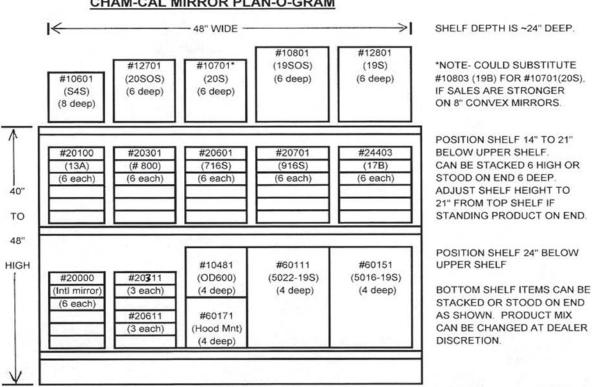


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### CHAM-CAL PART NUMBERING LEGEND

12811 FIRST DIGIT SECOND DIGIT THIRD DIGIT FOURTH DIGIT (WEST COAST MIRRORS) FIFTH DIGIT (SPOT MIRRORS) (SPOT MIRRORS) 1 = HEATED 0 = ALUMINUM 1 = CONVEX 1 = FLAT GLASS 1 = 2" ROUND CONVEX 2 = WEST COAST 2 = OFFSET BALL STUD 3" ROUND CONVEX = STAINLESS STEEL 3 = HEATED & LIGHTED 3 = LGHT/MED DUTY MIRRORS 3 = INCLUDES UNIVERSAL MOUNTING KIT 3 = 3.75" ROUND CONVEX 2 = CHROME PLATED 4 = SPECIAL MIRROR DESIGN 5 = COMBO OR SPECIAL DESIGN 4 = STEP VAN MIRRORS 4 = 4" RECTANGLE CONVEX 3 = BLACK PAINTED 4 = WHITE PAINTED EXCEPTION - 12" CONVEX -5 = LGHT/MED ASSEMBLIES 5 = 5" ROUND 6 = HEAVY DUTY ASSEMBLIES USES "11" IN 2ND & 3RD DIGIT 6 = 6" ROUND 6 = FIRST SURFACE GLASS 5 = GRAY PAINTED 7 = 7.5" ROUND 7 = OPEN 6 = UPS BROWN 7 = YOKES, BRACKETS, CLAMPS (WEST COAST MIRRORS) 8 = OPEN 8 = 8.5" ROUND 8 = OPEN 7 = OPEN 9 = 10.5" ROUND 9 = INTERNATIONAL PLUG 8 = ZINC PLATED 9 = LIGHT BRACKETS AND MIRROR GLASS 1 = MOTORIZED 2 = OPEN 0 = OPEN 0 = OPEN9 = SPECIAL FINISH 3 = JR. WC ASSEMBLY (LIGHT BRACKETS) 4 = HEAVY DUTY RIB BACK WC MIRROR (WEST COAST MIRRORS) (SPOT MIRRORS) 5 = HEAVY DUTY BUBBLE BACK WC MIRROR 1 = 6"x 16" MIRROR 1 = HEATED SINGLE LIGHT 6-9 = OPEN 2 = D200A -6"x 16" MIRROR 2 = OPEN 2 = TWO LIGHTS 3 = OEM - 7"x 16" MIRROR 3 = THREE LIGHTS 4 = RIB - 7"x 16" MIRROR 4 = SEMI BUBBLE CONVEX MIRROR 4 = FOUR LIGHTS 5 = BUBBLE - 7"x 16" MIRROR 6 = PYRAMID - 7"x 16" MIRROR 5 = OPEN 6 = BULK PACKAGE 7 = BOX - 7"x 16" MIRROR 7 = CLAM SHELL PACKAGE 8 = 4"x 8" OVER DOOR MIRROR 8 = 5"x 10" MIRROR JR. WEST COAST 9 = 6"x 10" MIRROR JR. WEST COAST 0 = FLANGE - 7"x 16" MIRROR 9 = FULL BUBBLE CONVEX MIRROR (SAFETY ASSEMBLIES) (LIGHT/MEDIUM DUTY MIRRORS) 1 = FULL SIZE TRIPOD ASSEMBLY 1 = 5.5"x 7.5" MIRROR 2 = WING BACK 5.5"x 7.5" 2 = DELUXE HOOD/FENDER TRI-MOUNT 3 = FULL SIZE TRIPOD W/HEATED MIRROR 3 = 5.5"x 8.5" MIRROR 4 = FULL SIZE TRIPODWFULL BUBBLE CONVEX 5 = SHORTENED TRIPOD ASSEMBLY 4 = 6"x 9" MIRROR 5 = WING BACK 7.5"x 10.5" 6 = DELUXE TRI-MOUNT W/BELL WASHERS & GASKETS 6 = BALLSTUD 7.5'x 10.5' 7 = HOOD MOUNT ASSEMBLY 8 = HOOD MOUNT ASSEMBLY W/HEATED MIRROR 7 = INNER ELBOW 7.5"x 10.5" 9 = HOOD MOUNT ASSEMBLY W/FULL BUBBLE CONVEX 8, 9, 0 = OPEN (LIGHT BRACKETS) 0 = NO LIGHT - BRACKET ONLY

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



1 = COMPLETE LIGHT ASSEMBLY