

Switches

INFO

SWITCH TYPES:

S.P.S.T. = single pole, single throw switches control a single wire circuit.

S.P.D.T. = single pole, double throw switches control two single wire circuits permitting only one circuit to be energized at a time.

D.P.S.T. = double pole, single throw switches control two circuits simultaneously. Circuits are ON at the same time, OFF at the same time and may be of different voltages from separate sources.

D.P.D.T. = double pole, double throw switches control four circuits, permitting only two circuits to be energized at a time.

S.P.S.T. S.P.D.T.

D.P.S.T. D.P.D.T.



Heavy-duty Toggle Switches

- Typical applications: industrial controls, marine panels, trucks, buses and automotive.
- Materials: brass terminals, frame and support are steel with zinc chromate, case is black phenolic plastic (flammability rating: UL 94 flame class 94V-1) and all other external parts are brass/bright nickel.
- All motor-rated, heavy-duty toggle switches are rated for 20 amp, 277 VAC.
- **Recommended mounting hole: 1/2" diameter.**

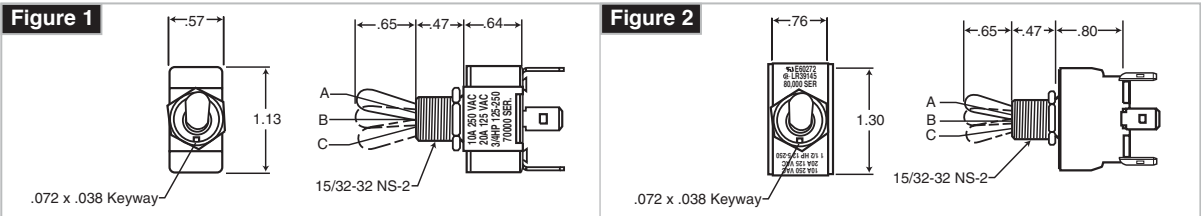
INFO

SPECIFICATIONS:

Single Pole Switches:	Double Pole Switches:
10A/277V AC	10A/277V AC
20A/125V AC	20A/125V AC
21A/14V DC	21A/14V DC
1/2 HP 125-250V AC	1 1/2 HP 125-250V AC

**OEM - back-up nut assembled only,
other hardware poly bagged**

**Assembled - all hardware
assembled**



Note: All toggles must be installed with a hex nut (provided) behind panel to prevent damage during installation.

Single Pole Heavy-duty Toggles

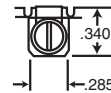
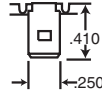


Poles	Circuit Arrangement			.250 Flat Assembled	Screw Assembled
	A	B	C		
S.P.S.T.	ON	—	OFF	55014	5582
S.P.S.T.	(ON)	—	OFF	55037	55020
S.P.S.T.	ON	—	(OFF)	55049-01	—
S.P.D.T.	ON	—	ON	55015	5584
S.P.D.T.	ON	—	(ON)	—	DC7200037
S.P.D.T.	ON	OFF	ON	55016	5586
S.P.D.T.	ON	OFF	(ON)	—	55088
S.P.D.T.	(ON)	OFF	(ON)	55033-01	55021

() Indicates momentary action



Double Pole Heavy-duty Toggles



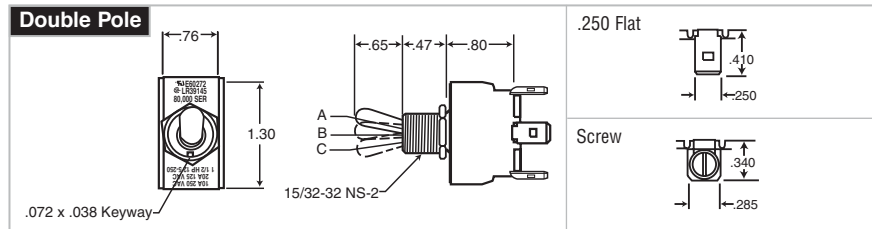
Poles	Circuit Arrangement			.250 Flat	Screw
	A	B	C	Assembled	Assembled
D.P.S.T.	ON	—	OFF	*55017	5588
D.P.S.T.	(ON)	—	OFF	—	DC7300015
D.P.D.T.	ON	—	ON	55018-01	—
D.P.D.T.	ON	—	(ON)	—	DC7300033
D.P.D.T.	ON	OFF	ON	55019	5592
D.P.D.T.	ON	OFF	(ON)	—	—
D.P.D.T.	(ON)	OFF	(ON)	—	—

() Indicates momentary action

* Indicates long handle

Specialty Circuit, Heavy-duty Toggle Switches

- A complete line of heavy-duty reversing and progressive toggle switches.
- Typical applications: tailgate, lift platform, motor controls.
- **Recommended mounting hole: ½" diameter.**



Note: All switches must be installed with a hex nut (provided) behind panel to prevent damage during installation.

Specialty Circuit, Heavy-duty Toggles

Poles	Style	Circuit Arrangement			Part No.	Termination		Ratings	No. of Terminals
		A	B	C		OEM	Assembled		
D.P.D.T.	Reversing	ON	—	ON	55018-01	—	Screw	21 amp, 14 volts DC	6
D.P.D.T.	Reversing	(ON)	OFF	(ON)	*55046	—	.250 Flat	21A, 14V DC	4

* Indicates long handle

Toggle Accessories



- Tough rubber silicone covers are UV-resistant and protect switches from moisture, dust and dirt.
- Built-in hex nut base screws on to most toggle switches.
- Boots are rated for -40°C to 180°C (-40°F to 356°F).
- 7900001 meets NEMA 4 requirements.

Figure 1

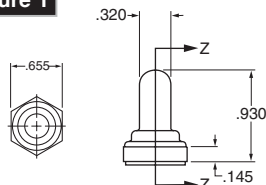
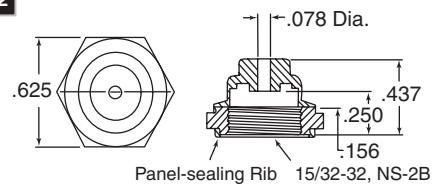


Figure 2

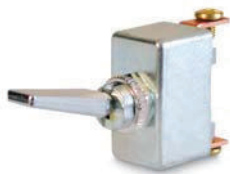


Note: All toggles must be installed with a hex nut (provided) behind panel to prevent damage during installation.

Part No.	Description	Boot Style
81264	Full Boot Toggle	Figure 1
81255	Half (½) Boot Toggle	Figure 2

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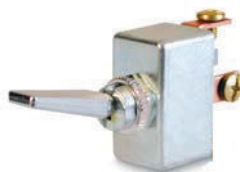




On-Off Toggle Switches

- 50 amps at 12V DC.
- Die cast housing, silver plated contacts and heavy copper terminals.
- Ideal for low voltage, high amp applications.
- $\frac{1}{32}$ " stem diameter x $\frac{1}{32}$ " length.
- Die cast toggles are rated for 50,000 cycles electrical life, 100,000 cycles mechanical life.
- **Recommended mounting hole: $\frac{1}{2}$ " diameter.**

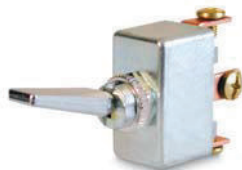
Poles	Handle Color	Termination	
		.250 Flat	Screw
S.P.S.T.	Chrome	34-216	34-212



On-Off Toggle Switch

- Two positions with copper screw terminals.
- Bat handle, $1\frac{1}{8}$ " long.
- Die cast toggles are rated for 50,000 cycles electrical life, 100,000 cycles mechanical life.
- **Recommended mounting hole: $\frac{1}{2}$ " diameter.**

Part No.	Poles	Rated
34-213	S.P.S.T.	50 amps at 6/12/24 volts DC



On-Off-On Toggle Switch

- Three positions with copper screw terminals.
- Chrome plated handle.
- Die cast toggles are rated for 50,000 cycles electrical life, 100,000 cycles mechanical life.
- **Recommended mounting hole: $\frac{1}{2}$ " diameter.**

Part No.	Poles	Rated
34-218	S.P.D.T.	50 amps at 6/12/24 volts DC



On-Off Switch

- All brass, two position toggle switch.
- Furnished with nickel-plated brass face nut and brass back-up nut.
- Mounting stem $\frac{3}{8}$ " long, $\frac{7}{16}$ " diameter with $\frac{7}{16}$ " x 28 threads.
- Perfect for marine use.

Part No.	Poles	Rated
33-300	S.P.S.T.	35 amps at 6 volts AC, 20 amps at 12 volts DC



Ignition Switch

- Starter switch, premium brass construction.
- Three terminals, three positions.
- Mounting stem: $1\frac{1}{16}$ " long, diameter $\frac{1}{16}$ ".
- Rated 25 amps at 6 volts DC, 15 amps at 12 volts DC.
- Two keys are included.

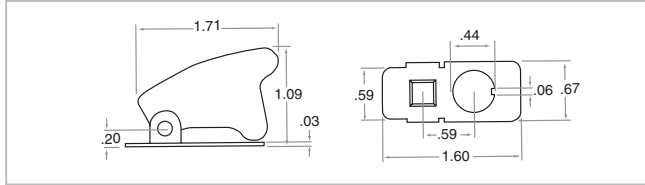
Part No.	Description
DC73450	Ignition Switch





Toggle Safety Cover

- Rugged spring-loaded design provides protection against accidental actuation.
- Perfect for a variety of industry applications, from Racing to Agriculture.
- Materials: Base faceplate is black steel; cover is red urea plastic.
- Mounting hole accepts all standard on-off toggles with $\frac{15}{32}$ " mounting stems.
- Also available in Green, Yellow, & Blue.



Part No.	Description
DC73200	Toggle Safety Cover

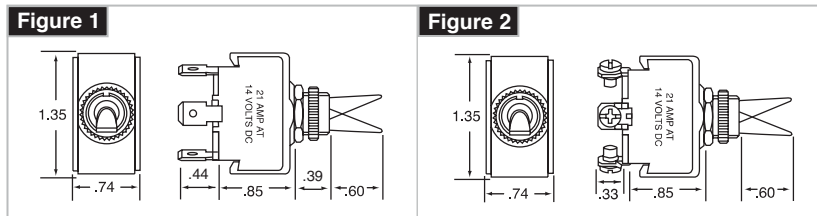


Light-duty Toggle Switch

- Our lighted toggles contain an internal "o" ring seal to protect against dust and moisture.
- Rated for 12 volts, and available in both dependent and independent illumination circuits.
- **Recommended mounting hole: $\frac{1}{2}$ " diameter.**



SPECIFICATIONS:
21A / 14V AC



Part No.	Poles	Circuit Arrangement			Description
		A	B	C	
M54110	S.P.D.T.	ON	—	OFF	red dependent/white independent
M54109	S.P.S.T.	ON	—	OFF	red dependent/white independent



Rocker Switches

- Two position rocker switches with black nylon housing.
- Illuminated "ON" position.
- Three ($\frac{1}{4}$ ") male blade terminals.
- Rated at 20A/12V DC.
- **Recommended mounting hole: $\frac{1}{2}$ " x 1".**

Part No.	Poles	Circuit Arrangement			Color
		A	B	C	
DC73355	S.P.S.T.	ON	—	OFF	Red
DC73365	S.P.S.T.	ON	—	OFF	Green
DC73375	S.P.S.T.	ON	—	OFF	Amber
DC73385	S.P.S.T.	ON	—	OFF	Blue

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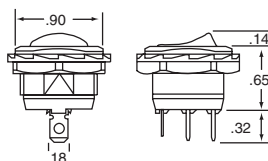




Square Face, Round Hole Rocker Switches

Just resistant nylon housing (UL Flame: 94V-2) with backup nut design.
Available in non-illuminated and illuminated (LED and incandescent) styles.
Recommended mounting hole: .787" diameter.

Figure 1



SPECIFICATIONS:

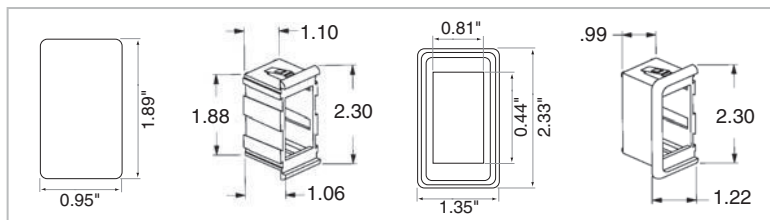
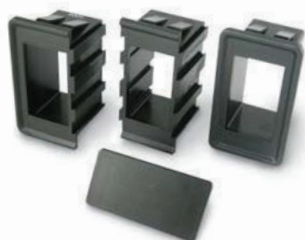
16A/125V AC
10A/250V AC
20A/12V DC
6mm max panel thickness

Non-illuminated

Part No.	Poles	Circuit Arrangement			Description
		A	B	C	
DC7500015	S.P.S.T.	ON	—	OFF	Non-illuminated

Modular Brackets

- Introducing a quick and clean system to mount switches.
- Able to be assembled in countless configurations to meet your switch needs.
- Manufactured to accommodate our Full Size Rocker Series and Surf N' Turf Sealed Rockers.
- Creating your own switch panel has never been easier.



Part No.	Description
98628	Rocker Panel Plug
82159-2	Middle Rocker Panel
82159-1	Single Rocker Bracket
87167-01	End Rocker Panel

Push-Button Switch

- Momentary push-button switch for operating fog horns and sirens.
- Plastic button and chrome-plated brass shell and mounting bracket.
- Mounting center: 2 1/8", overall length: 2", 1 1/2" diameter.
- Rated at 5A/12V DC.



Part No.	Circuit Arrangement		
	A	B	C
52-661	(ON)	—	OFF

() Indicates momentary action

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Full Size Rocker Switches

- Heavy-duty construction.
- Plain and lighted versions.
- Moisture and dust resistant.
- Recommended uses: Commercial appliances, industrial controls, van conversions, marine panels, automotive, motor controls, trucks and buses.
- Materials: terminals are brass, frame and rocker are black glass-filled nylon, case is black nylon (flammability rating: UL 94 flame class 94V-2), gasket is molded elastomer.
- **Recommended mounting hole: .830" (±.015) x 1.450" (±.005).**



SPECIFICATIONS:

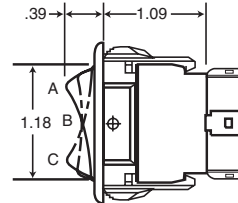
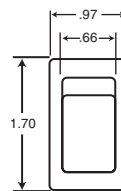
Single Pole Switches:

10A/277V AC
20A/125V AC
¾ HP 125-250V AC

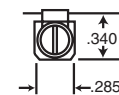
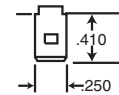
Double Pole Switches:

10A/277V AC
20A/125V AC
1½ HP 125-250V AC

Note: Because panel material will affect mounting performance, all mounting panel cutouts should be tested for suitability prior to manufacture.



Single & Double Pole Non-Illuminated

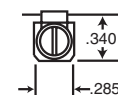
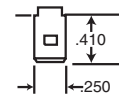


Poles	Circuit Arrangement			Termination	
	A	B	C	.250 Flat	Screw
S.P.S.T.	ON	—	OFF	*34-308	34-301
S.P.S.T.	(ON)	—	OFF	58027-01	—
S.P.D.T.	ON	—	ON	—	—
S.P.D.T.	ON	OFF	ON	58327-06	—
S.P.D.T.	(ON)	OFF	(ON)	58027-04	—
D.P.S.T.	ON	—	OFF	—	—
D.P.D.T.	ON	—	ON	34-359	—
D.P.D.T.	ON	OFF	ON	58027-11	—
D.P.D.T.	ON	OFF	(ON)	—	—
D.P.D.T.	(ON)	OFF	(ON)	—	—

() Indicates momentary action

* also available with special markings on face: -O

Lighted Rocker Switches



Poles	Circuit Arrangement			Termination		Lens Color
	A	B	C	.250 Flat	Screw	
S.P.S.T.	ON	—	OFF	34-360	—	Red
S.P.S.T.	ON	—	OFF	—	34-305	Red
S.P.S.T.	ON	—	OFF	—	34-306	Green
S.P.S.T.	ON	—	OFF	—	34-307	Amber

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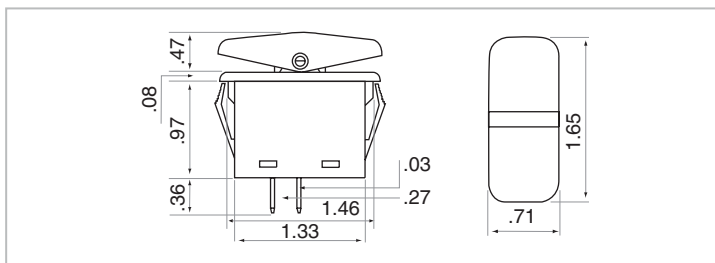
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Surf 'N Turf™ Guardian Series

- Recommended uses: marine panels, trucks, buses, trailer, construction, farm equipment and recreation equipment.
- Moisture and dust resistant.
- Designed to meet or exceed IP56 requirements.
- 20 amps, 14V DC.
- **Recommended mounting hole: .60" (± 0.004) x 1.450" (± .004).**



Poles	Rocker Color or Description	Circuit Arrangement			Part No.	No. of Terminals
		A	B	C		
S.P.S.T.	Black/Black	ON	—	OFF	DC73280	2
S.P.S.T.	Black/Red Dep.	ON	—	OFF	DC73281	3
S.P.S.T.	Black/Red (ON)	—	—	OFF	DC73285	2
S.P.D.T.	Black/Black	ON	OFF	ON	DC73282	3
S.P.D.T.	Black/Black	(ON)	OFF	(ON)	DC73284	3

() Indicates momentary action

* Illuminated, dependent



Round Hole Rocker Switches

- Non-illuminated: 2 (¼") male blade terminals, illuminated: 3 (¼") male blade terminals.
- Rated 30A/12V DC.
- **Recommended mounting hole: ½" diameter.**



Part No.	Poles	Circuit Arrangement			Color	Description
		A	B	C		
DC73310	S.P.S.T.	ON	—	OFF	—	Non-illuminated
DC73312	S.P.S.T.	ON	—	OFF	Red Glo	Illuminated
DC73314	S.P.S.T.	ON	—	OFF	Amber Glo	Illuminated
DC73316	S.P.S.T.	ON	—	OFF	Blue Glo	Illuminated
DC73318	S.P.S.T.	ON	—	OFF	Green Glo	Illuminated



Round Hole Rocker Switch

- Dust resistant black nylon housing (UL Flame: 94V-2) with back-up nut design.
- Rated to 10A/125V AC; 6A/250V AC.
- Connection points are silver plated brass.
- Recommended mounting hole: .708".

Part No.	Poles	Circuit Arrangement			Markings
		A	B	C	
DC7100006	S.P.S.T.	ON	—	OFF	Black, White Dot

KATCO SERVICE PARTS INC.





Push-Button Switch

- Heavy-duty, momentary push-button switch.
- $\frac{5}{8}$ " - 32 UNS mounting bushing for panels up to $\frac{1}{2}$ " thick.
- Die cast with silver/copper contacts for long life.
- Rubber dust and moisture-resistant. Boot nut included.
- Rated at 50A/12V DC.

Part No.	Circuit Arrangement		
	A	B	C
CH90030	(ON)	—	OFF

() Indicates momentary action



Push-Button Starter & Horn Switches

- Insulated type push-button starter and horn switches.
- Moisture-proof switch supplied with a special moisture-proof and dust-proof rubber cap.
- 73485 supplied with chrome-plated brass face nut and back-up nut.
- Mounting bushing: $1\frac{1}{4}$ " long, $\frac{5}{8}$ " diameter.
- Overall length: $2\frac{7}{8}$ ", width $\frac{7}{8}$ ".
- Brass washer and back-up nut, stainless steel springs.
- Accommodates 1" panel.
- Rated at 25A/6V DC, 15A/12V DC.



Part No.	Circuit Arrangement		
	A	B	C
DC73495	(ON)	—	OFF
DC73485	(ON)	—	OFF

() Indicates momentary action



GM Self-adjusting OEM Door Switch

- Self-adjusting dual grounding door switch.
- Requires a $\frac{5}{8}$ " hole size.

Part No.	Description
DC72960	GM Self-adjusting OEM Door Switch



GM/Ford Van Switch

- $\frac{1}{2}$ " grounding self-adjusting switch.
- Will work on GM van doors. Use in Ford cars as a ground switch going directly to alarm or, if (+) dome light activation is needed, use this switch with a relay.

Part No.	Description
DC72962	GM/Ford Van Switch

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Push-Pull Switch

- Extra heavy-duty, 2 position push-pull switch.
- Mounting stem $\frac{5}{8}$ " long, $\frac{1}{2}$ " diameter.
- Chrome-plated metal knob.
- Rated at 75A/6-28V DC.

Part No.	Poles	Circuit Arrangement		
		A	B	C
34-306	S.P.S.T.	ON	—	OFF



Push-Pull Switch

- Heavy-duty, 2 position push-pull switch.
- Made of brass and chrome.
- Mounting stem: $1\frac{1}{4}$ " long, $\frac{3}{8}$ " diameter.
- Overall length: $3\frac{1}{8}$ ", width $\frac{7}{8}$ ".
- Accommodates 1" panel with stainless steel springs.
- Rated at 25A/6V DC, 15A/12V DC.

Part No.	Poles	Circuit Arrangement		
		A	B	C
33-400	S.P.S.T.	ON	—	OFF



Master Disconnecting Switch for Batteries

- Lever operated - 6-36 volt, 180 amps.
- Continuous capacity 1,000 amps in rush S.P.S.T. (On-Off), two stud terminals.
- For battery circuit only.
- Does not disconnect alternator or generator field circuit.
- Conforms to requirements of UL #558.
- Mounting stem $\frac{3}{4}$ " diameter, $\frac{25}{32}$ " long with two hex nuts and lock washer.



NOTE: On vehicles equipped with an alternator, the engine must be shut-off to avoid potential damage to alternator diode. Instructions sheets are included.

Part No.	Description
51-302	Master Disconnect Switch

Battery Master Switch

- Waterproof, single battery master switch.
- Key is detachable, therefore, the switch also serves as an anti-theft device.



NOTE:
Maximum load (10 seconds): 12 volts, 1000 amps; 24 volts, 500 amps.
Maximum continuous rating: 12 volts, 50 amps; 24 volts, 25 amps.

Part No.	Description
MP8373SW	Battery Master Switch

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Pigtail-LED

- 6" wire leads with push-in grommet.
- Rated to 12V DC with a 5/16" mounting hole.

Part No.	Description
DC73581	Red, Non-flashing
DC73582	Amber, Non-flashing
DC73583	Green, Non-flashing
DC73584	Blue, Non-flashing



Indicator Lamps

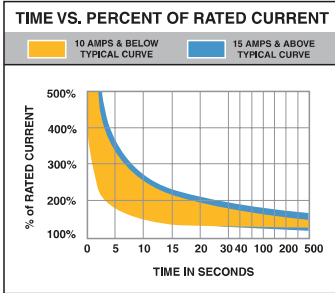
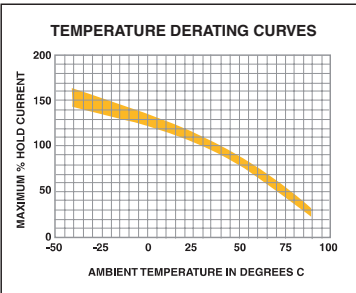
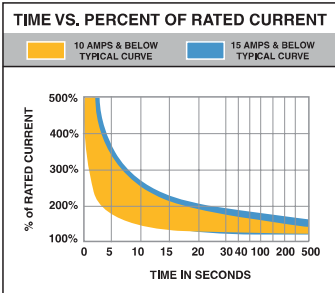
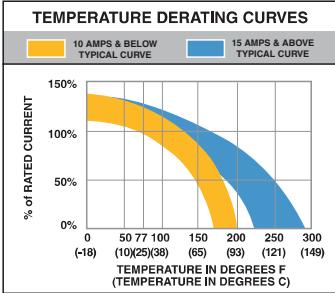
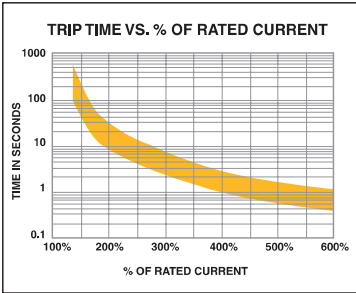
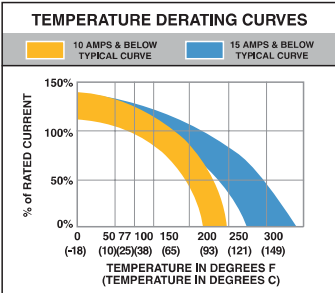
- Indicator lamps with wire leads for easy installation.
- Mounts into 1/2" hole at 12V DC.
- Rated to 3 amps.

Part No.	Poles	Color
DC73415	S.P.S.T.	Red
DC73425	S.P.S.T.	Green
DC73435	S.P.S.T.	Amber
DC73445	S.P.S.T.	Blue

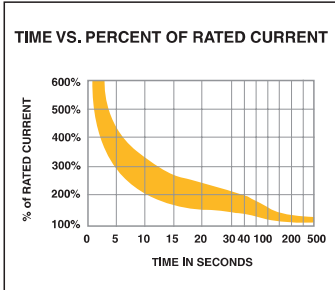
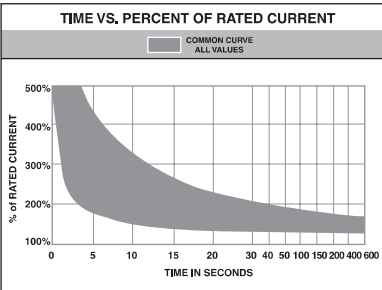
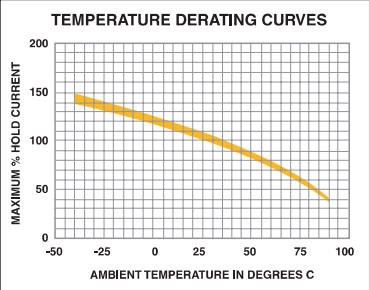
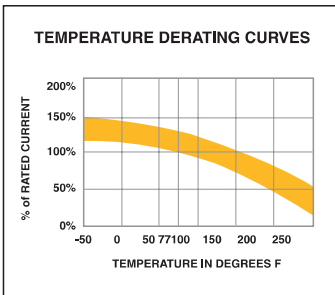
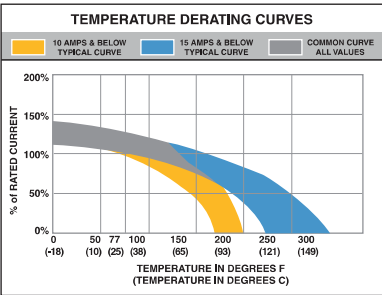
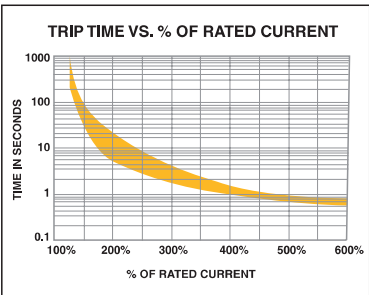


Circuit Breaker Guide

Stud Mount ATC Blade Maxi Blade



Mini Blade Push Button Hi Amp





Circuit Breakers - Stud Mount

Type 1 - 12V DC Automatic Reset

- This series of circuit protectors is comprised of single pole thermal type breakers.
- Used in many diverse applications including multiple power outlet strip, trucks, buses, portable generators, welding equipment and trolling motors.
- Operating temperatures from -23°C to 65°C (-10°F to 150°F).
- Storage temperature -29°C to 93°C (-20°F to 200°F).
- All Type 1, 2 and 3 circuit breakers are engineered for dependability.
- Breakers include nuts and washers.
- Meets S.A.E. J553 specifications.



Stud Terminals: Two 10/32 stud; .66 (AUX) .50 (BATT) Mounting Hole: .196 diameter holes

Metal with Horizontal Mounting Bracket

Part No.	Amp	Part No.	Amp
CBMP5	5	CBMP25	25
CBMP6	6	CBMP30	30
CBMP10	10	CBMP35	35
CBMP15	15	CBMP40	40
CBMP20	20	CBMP50	50

Metal without Mounting Bracket

Part No.	Amp	Part No.	Amp
CB6	6	CB25	25
CB10	10	CB30	30
CB15	15	CB40	40
CB20	20	CB50	50

Type 1 - 24V DC Automatic Reset

Metal with Horizontal Mounting Bracket

Part No.	Amp	Part No.	Amp
CBMP10-24	10	CBMP30-24	30
CBMP20-24	20	CBMP40-24	40

FUNCTIONCODE

TYPE 1 Automatic Reset

- Will recycle continuously during an overcurrent condition.
- The composite alloy material will deflect and separate the contacts when an over-current situation occurs and return to the run mode as it cools. The process will continue until the source of the overcurrent is removed or corrected.

TYPE 2 Modified Reset

- Circuit breaker will remain tripped (in the OFF position) as long as there is power to the circuit.
- Contains internal resistor.
- Reset circuit breaker by turning off the circuit or by turning off the ignition switch.
- Silver in color.

TYPE 3 Manual Reset

- Circuit breaker will remain tripped (in the off position) until indicator button or lever is manually reset to activate circuit.
- Type 3 available in plastic only.

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Type 1 - Maxi Auto Reset

- Temperature range: -29°C to 65°C (-20°F to 150°F).
- Interchangeable with Maxi blade fuse.
- 12V DC.
- Meets SAE J553.

Part No.	Amp	Part No.	Amp
CBMAX10	10	CBMAX30	30
CBMAX15	15	CBMAX40	40
CBMAX20	20	CBMAX50	50

Circuit Breakers - Miscellaneous



Type 1 - Mini

- Single pole thermal-type breakers, 14V DC.
- Cover is grey plastic housing with standard gold cover (Type 1) or silver cover (Type 2).
- Markings include amp/volt ratings.
- Meets SAE J553 specifications for Type 1 and Type 2 circuit breakers.
- Temperature range: operating -40°C to 85°C (-40°F to 185°F).
- .110" blade compatible with 280 fuse blocks.

Type 1			
Part No.	Amp	Part No.	Amp
CBMIN10	10	CBMIN20	20
CBMIN15	15	CBMIN25	25



Type 2 - Universal Circuit Breaker Connectors

- "Snap-off" design of blades allows installer to size the blades for the application.
- Color-coded markings to match the color coding for ATC® fuses (UCB-10-Red, UCB-15-Blue, UCB-20-Gold and UCB-30-Green).
- Fits standard ATC®/ATO® fuse panels.

Part No.	Amp	Part No.	Amp
211-10	10	211-20	20
211-15	15	211-30	30



Snap-in Circuit Breakers

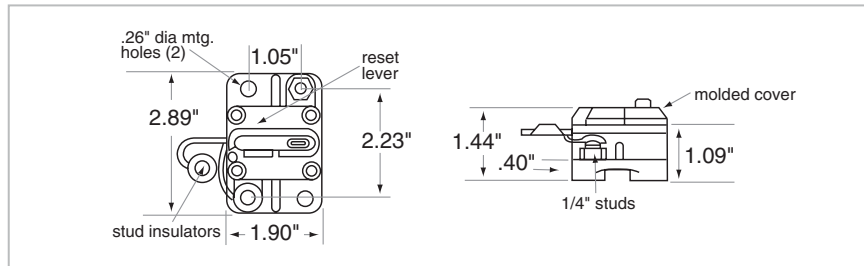
- Remote reset circuit breaker replaces round glass-style fuses in existing fuse blocks.
- Opens automatically on overload.
- Remains open for protection until trouble is corrected.
- Snap-in mounting in standard fuse clips, 1/4" diameter x 1 1/4" long.
- 12V DC.

Part No.	Amp	Part No.	Amp
CBMK10	10	CBMK20	20
CBMK15	15	CBMK30	30

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Surface Mount



FUNCTION CODE

TYPE 1 Automatic Reset

- Will recycle continuously during an overcurrent condition.
- The composite alloy material will deflect and separate the contacts when an overcurrent situation occurs and return to the run mode as it cools. The process will continue until the source of the overcurrent is removed or corrected.

TYPE 3 Manual Reset (switchable)

- Circuit breaker will remain tripped (in the off position) until indicator button or lever is manually reset to activate circuit.
- Unique feature of push-to-trip button to manually disconnect circuit.
- Reset mechanism provides visual indication of tripped condition.



Type 1 - Automatic Reset

- Complies with S.A.E. J1625 specifications.
- Protective stud insulators included.
- Rated to 30V DC.

Part No.	Amp	Part No.	Amp
CBA60	60	CBA80	80
CBA90	90	CBA150	150
CBA100	100		

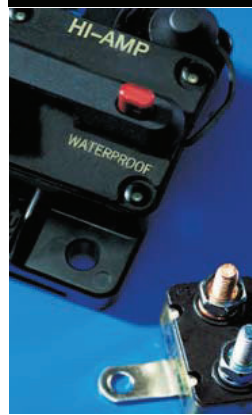


Type 3 - Manual Reset (switchable)

- Protective stud insulators included.
- Rated to 48V DC.

Part No.	Amp	Part No.	Amp
CBM60	60	CBM80	80
CBM90	90	CBM150	150
CBM100	100		

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AGC®, ATO®, Mini® and Maxi™ Fuses

- Used in most domestic and imported cars.
- Meets or exceeds OEM and S.A.E. standards.



IMPORTANT:

- Voltage must match or exceed the fuse being replaced (125V for household current; 12V for auto; 24V for heavy-duty).
- Must match amperage of the old fuse.

Amp Rating	Color	Amp Rating	Color
02	gray	10	red
03	violet	15	lt. blue
04	pink	20	yellow
05	tan	25	natural
7.5	brown	30	green



¼" x 1¼"

Bulk - Min. 100 pcs.



Bulk - Min. 10 pcs.



Bulk
Min. 10 pcs.



Bulk
Min. 10 pcs.

AGC® Fuses

Bulk

Part No.	Amp	Part No.	Amp
AGC3	3	AGC15	15
AGC5	5	AGC20	20
AGC6	6	AGC25	25
AGC7.5	7.5	AGC30	30
AGC8	8	AGC35	35
AGC10	10	AGC40	40

ATO® Fuses

Bulk

Part No.	Amp	Part No.	Amp
ATO3	3	ATO20	20
ATO5	5	ATO25	25
ATO7.5	7.5	ATO30	30
ATO10	10	ATO40	40
ATO15	15		

* Rated to 32 volts.

Maxi Fuse

Bulk

Part No.	Amp	Part No.	Amp
MAXI20	20	MAXI50	50
MAXI30	30	MAXI60	60
MAXI40	40		

* Rated to 32 volts.

Mini® Fuse

Bulk

Part No.	Amp	Part No.	Amp
ATM2	2	ATM10	10
ATM3	3	ATM15	15
ATM4	4	ATM20	20
ATM5	5	ATM25	25
ATM7.5	7.5	ATM30	30

* Rated to 32 volts.

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Cartridge Fuses

- Commonly used to replace fusible link wire in high current applications.
- Female terminated Maxi™ fuses provide increased time delay and low voltage drop protection.
- FLB Series is a 1/8" Bent Male Terminal Fuse with fixed centers at 1.889" (48mm).
- Voltage rating: 32V AC/DC.

PAL Fuses / FLF Series

Part No.	Color	Amp
PAL20	lt. blue	20
PAL30	pink	30
PAL40	green	40
PAL50	red	50
PAL60	yellow	60



PAL Fuses / FLS Series

Part No.	Color	Amp
JCAS30	pink	30
JCAS40	green	40



AGC® Fuse Retainer Panel Mount

- Designed to mount in panel hole of .575" diameter.
- 10A at 250 VAC - CSA.
- Fuse not included.

Part No.	Description
FHHTB26	AGC® Fuse Retainer Panel Mount



ATC®/ATO® Fuse Holder & Accessories

- "Write-in" space available to easily identify the circuits.
- Fuse cover (78370) fits 78365 and 78375.
- Manufactured with standard 3.5" GPT wire.
- Fuses not included.
- Wire color may vary.

Part No.	Description
FHATO-14	14 gauge, 20 amp max.
FHATO-12	12 gauge, 30 amp max.

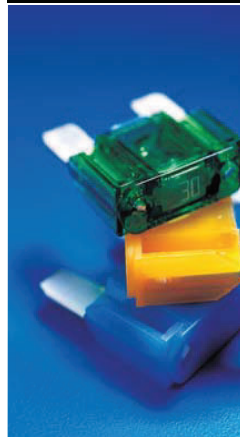


ATC®/ATO® Fuse Holder

- A premium quality, insulated and weatherproof ATC® fuse retainer.
- Manufactured with standard 5" of 12 gauge GPT wire.
- 30 amp max.
- Fuse not included.

Part No.	Description
FHWP-12	ATC® Fuse Holder

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AGC® Nylon In-line Fuse Holders



- Fuse holders with molded nylon bodies are furnished with one fuse (fuse not assembled inside).
- Made with standard 8" GPT wire.
- 6-10 amp = 14 gauge wire leads
- Wire color may vary.

Part No.	Description
FH	Fuse Holder no fuse

AGC® In-line Fuse Holders



- Heavy-duty bakelite in-line fuse retainer.
- Made with standard 6" GPT wire.
- Fuse included.
- Wire color may vary.
- 15-30 amp = 12 gauge wire leads.

Part No.	Description
FH12	Fuse Holder 12ga



AGC® Adjustable Fuse Holder

- For use with 12 through 18 gauge wire.
- Fuse holder snap locks together for AGC® fuse size ¼" diameter x 1¼".
- Made of nylon and bright yellow in color.
- Holder rates 32 volts, 30 amps.
- Pull force: 5 lbs. min. to separate fuse holder housing with fuse installed.
- UL flammability rating 94V2.
- Crimp to hold wire in place.

Part No.	Description
AFH	Adjustable Fuse Holder



AGC® Weather Resistant Fuse Holder

- One piece molded thermoplastic fuse holder accepts wire sizes 18-12 gauge and is not weather resistant if used with other wire sizes.
- -40°C to 150°C (-40°F to 302°F) temperature range applies to the fuse holder only.
- Fuse holder can be written on to indicate circuit.
- The bright yellow color makes the fuse holder easy to locate.
- Holder rated 32 volts, 30 amps.
- For ¼" x 1¼" fuses.
- Fuse not included.
- Crimp to hold wire in place.

Part No.	Description
FH-HHB	Weather Resistant Fuse Holder





Snap-on ATC®/ATO® Fuse Holder

- Self tapping design requires no wire stripping.
- No special tool is necessary; installs with common pliers.
- For use with 18-14 gauge wire.
- 20 amp max.
- Fuse not included.

Part No.	Description
FHATO-TAP	ATC®/ATO® Fuse Holder

Mini® Fuse Holder



- Perfect weather resistant fuse holder designed for applications where moisture is a problem.
- Cap has positive snap action for tight fit.
- Manufactured with 4" 12 gauge UL 1015 wire.
- 30 amp, 32 volt max.
- For Mini® fuse only (fuse not included).
- Wire color may vary.

Part No.	Description
FHATM-12WR	Mini® Fuse Holder



Maxi™ Fuse Holder

- Fire wall mounting hole permits two or more holders to be mounted together.
- Cover comes with a removable strap.
- Manufactured with standard 5" 6 gauge GPT wire.
- Range: 20 to 80 amp, 32 volt max.
- Fuse not included.
- Wire color may vary.

Part No.	Description
FH-MAX	Maxi™ Fuse Holder with cover

ATC®/ATO® Blade-type Fuse Panels



- Compact, lightweight and rugged enough to use in recreational vehicles, trucks, buses and boats.
- The panels will accept ATC®/ATO® blade type fuses or blade type automatic or manual reset circuit breakers.
- Panels range from 6 to 12 branch protected circuits.
- Easy wiring with ¼" quick connect branch circuit terminal and stud common ground or ¼" quick connect, if preferred.
- No top cover is needed, recessed trifurcate fuse contacts.
- Molded of high grade thermoplastic.
- Rated to 0°C to 65°C (-20°F to 100°F), 105°C (221°F) with a UL rated 94V-0 thermoplastic body.
- Recessed mounting holes.

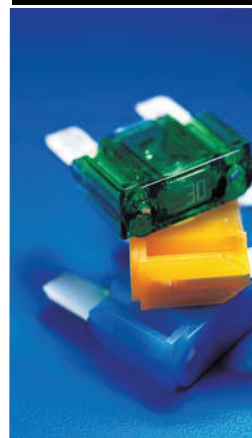


ATO®/ATC® FUSE PANEL:
Common negative bus with "push-on" tabs.
Common positive feed.
Each branch handles up to 30 amps (160 amp max. total).

ATC®/ATO® Blade Type Fuse Panel

Part No.	Position/ Branch	Part No.	Position/ Branch
52-406	6	52-410	10
52-408	8	52-412	12

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Relays

- The best solution for full voltage applicable to head lamps, auxiliary lamps, fog horns, motors for fans, window lifters, air conditioners, heated rear windows, or the myriad of other equipment existing on vehicles today.
- Engineered to deliver superior performance over a long life.



OPERATING CHARACTERISTICS:

Permissible ambient temperature = -40°C to 125°C (-40°F to 257°F)

Mechanical Life-no load = 10,000,000 operations (frequency 18,000 operations/hr)

The following applies for all relays unless otherwise noted:

Operating voltage = 8-16V at 12V; 16-32V at 24V

Contact voltage drop⁽¹⁾ = Typ. 50mV at 10A

Insulation resistance⁽¹⁾ = 20MΩ Min. (DC 500V)

Operate time⁽¹⁾ = 20ms Max.

Release time⁽¹⁾ = 20ms Max.

Resistive load N.O. = 50A at 14V DC

Resistive load N.C. = 30A at 14V DC

Dielectric strength N.O.⁽¹⁾ = AC 500V, 50/60Hz 1 min

Dielectric strength N.C.⁽¹⁾ = AC 500V, 50/60Hz 1 min

Life Expectancy Mechanical = 10,000,000 operations (frequency 18,000 operations/hr)

Life Expectancy Electrical = 100,000 operations (frequency 1,200 operations/hr)

A changeover relay switches current from one user to another. Change-over relays are used for switching from one horn to the fan, from forward to backward movement of the sliding roof, from opening to closing electrically operated windows and for two-stage users such as fans and some rear window heating systems.

Change Over Relays

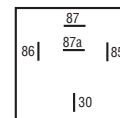
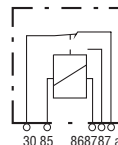
Change Over Relays can be used as: *Change Over Relays,

*Normally Open Relays, *Normally Closed Relays.



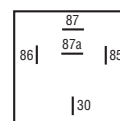
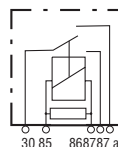
Mounting Bracket

Part No.	Description
V23234A1001X036	12 volt, 30/50 amp



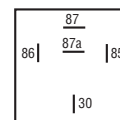
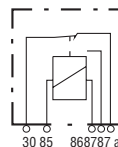
Mounting Bracket with Resistor

Part No.	Description
HE87426	24 volt, 30/50 amp



No Mounting Bracket

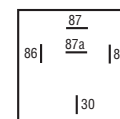
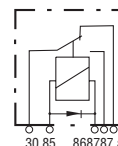
Part No.	Description
V23234A0001X037	12 volt, 30/50 amp



with Diode

Part No.	Description
V23234A0001X030	12 volt, 30/50 amp

The same as above with a diode. Diode eliminates voltage spikes which can damage sensitive electronic equipment.

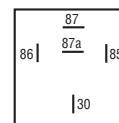
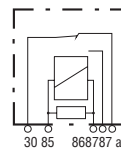


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Potted with Resistor
Perfect for Marine Use

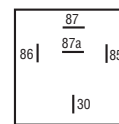
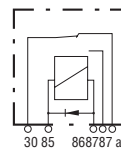
Part No.	Description
HE87429	12 volt, 30/50 amp



Change Over Relay with Diode

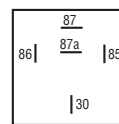
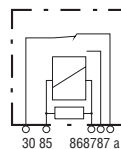
Part No.	Description
V23234A0001X030	12 volt, 30/50 amp

Diode eliminates voltage spikes which can damage sensitive electronic equipment.



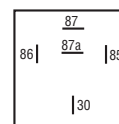
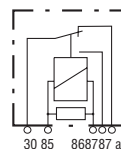
With Resistor

Part No.	Description
V23234A0001X032	12 volt, 30/50 amp



Skirted with Resistor and Bracket

Part No.	Description
HE87411	12 volt, 30/50 amp



Pre-made Relay Harnesses

- Molded base 5-pole socket.
- Manufactured with 12", 14 gauge wire leads.
- Wire: black-power, red-ground, white-switch, blue & green-end device.

Part No.	Description
BRS-3000	Relay socket prewired, 14 gauge

Specialty Relays

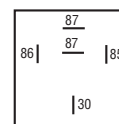
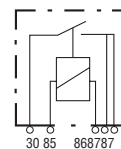


Normally Open Relay w/Dual 87 Contacts

- A popular relay for German and European cars.
- Double relay with two prongs will allow operation of two instruments.

Part No.	Description
V23234C1001X005	12 volt, 30 amp (per 87 contact)

S.P.S.T.

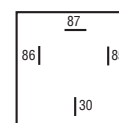
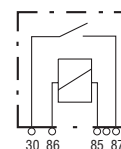


Normally Open 12V Relay

- Relay has 2-.250" and 2-.375" terminals.

Part No.	Description
HE87430	12 volt, 70 amp

S.P.S.T.



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Solenoid Switches

- A current carrying coil of wire, wrapped around an iron core that, when energized, creates a magnetic field which produces a high current and force.
- Solenoids are advantageous because they allow for a low input while generating a larger output, as in the case of a starter solenoid.
- Rated for 12V DC.



Solenoids are similar to a relay, but unlike regular relays, they are used for heavy-duty applications like a motor on-off control. There are five characteristics to choosing a solenoid: intermittent or continuous, insulated or grounded, voltage, number of studs and material housing.

Part No.	Description	Make/Break Rating	Cont.	Stud Count
CH24059	S.P.S.T., Continuous 12V DC	—	85	4
CH24115	S.P.S.T., Continuous 12V DC	—	85	3
CH24063	S.P.S.T., Continuous 24V DC	—	85	4
*CH24117-01	S.P.D.T., Continuous 12V DC	—	85	4

* weatherproof

Screw Type Terminal Blocks



- Rating: 30A, 600V, UL and CSA.
- Center spacing: $\frac{5}{16}$ ".
- Distance between barriers: 0.412".
- Individual gang, not bussed.
- Temperature rating: -40°C to 130°C (-40°F to 260°F).
- Wire size #10 - 22 AWG.
- Mounting: #8 screw.

Screw Type			
Part No.	Gang	Part No.	Gang
—	2	CHM428	8
CHM426	4	CHM429	10
CHM427	6	CHM456	12

ANL Fuse Holder

- Manufactured from a brass core with a gold or silver plating for superior connectivity.
- Snap-on covers help connection points.
- Gold plated Allen and Phillip screws secure wire connection.



Part No.	Description
FH-ANL	ANL Fuse Holder, gold - standard





Stud Type Terminal Blocks

- Premium stud type terminal blocks.
- Rated at 30 amps, 300V UL of 30 amps, 600 volts CSA.
- Studs are on $\frac{1}{2}$ " centers.
- Brass studs with a 10-32 thread are designed with a "dog-point" to easily guide nut on to the thread.
- The studs are directly molded into the base enabling them to withstand 25 inch pound of torque for a solid tight fit.
- Numbers and arrows are molded in the base to allow for positive identification.
- Individual gang, not bussed.
- Temperature rating: 120°C (250°F).
- Hardware is included.

Stud Type			
Part No.	No. of Studs	Part No.	No. of Studs
DC70001	4	DC70004	10
DC70002	6	DC70005	12
DC70003	8	DC70006	14



Stud Type Junction Box

- Molded cover and housing designed to be corrosion resistant.
- Mounting holes $\frac{7}{8}$ " center-on-center.
- Five open, five closed grommets and necessary hardware included.
- Seven independent #10-32 studs.
- 30 Amps max.

Part No.	Description
667-7040	Stud-type Junction Box



Power Distribution Block - .250" Quick-Connect

- Use to reduce the assembly costs of internal wiring.
- 600V: 70A rating; UL/CSA.
- Designed for equipment that requires screw connections in the field.
- Input wire sizes No. 2 to No. 14.
- Four .250" quick-connect terminals per pole. Standard with 2 poles.
- Torque rating of 45 in./lb. max.

Part No.	Description
DC79425	Power Distribution Block - .250" Quick-Connect



Power Distribution Block - 1-way

- Patented feeder bar connector.
- Suitable for field wiring.
- UL rated to General Industrial Class per UL 1059, CSA certified.
- Rating to 600V and 175 amp.
- Line connection: (1) 2/0-#8 CU-AL.
- Load connection: (4) #4-#14 CU-AL.

Part No.	Description
DC79435	Power Distribution Block - 1-way

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Thermal Flashers

- Two and three pin flashers.
- Fits most American cars, light trucks and vans.
- Meet or exceed DOT standards.

Part No.	Description
552	Two pin, 12 volt (552 Type)
550	Three pin, 12 volt (550 Type)



Electro-mechanical Flashers











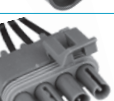







- Meets FMSVSS108-S.A.E. J590b • J945.
- Lasts up to 10 times longer than thermal flashers.
- Variable load-flashes 1 to 10 signaling lamps and 2 indicator lamps.
- Flash rate will not slow down when towing a trailer.
- Precious metal contacts.
- Unique audible click.
- Input lead must be fused at 25 amps.

Part No.	Description
EF-32	Two pin, 12 volt
EF-33	Three pin, 12 volt



GM Service Repair Pigtails

	#5600C (#5600PT) Direct Ignition/Throttle Body Injection 2-18 ga Leads 1987-90 Buick, Chev, Olds, Pontiac	GM 12085496 Delco PT118
	#5601C (#5601PT) A/C Compressor Clutch Pigtail 2-18 ga Leads 1989-91 Buick, Chev, Olds, Cad, Pontiac	GM 12101937 Delco PT209
	#5602C (#5602PT) Idle Air Control & Distributor Module 4-18 ga Leads 1985-90 Module 1987466 for 2.8 Engine	GM 12126487 Delco PT757
	#5603C (#5603PT) Crankshaft Coolant Sensor 3-16 ga Leads Power Steering Pressure Switch Buick & Olds 1986-91, Chev 1990-91, GM 12085483 Cad 1987-90, Pontiac 1987-91	Delco PT105
	#5604C (#5604PT) Horn Connector 2-18 ga Leads Fits Horn 1999160-161 & 10456327-28 Buick, Olds, Pontiac 1988-92, GM 12116958 Chev 1988-91, Cad 1991-92	Delco PT419
	#5605C (#5605PT) Windshield Washer Pump/Low Coolant Sensor Buick & Pontiac 1987-92, Cad 1988-91, 2-16 ga Lead Chev 1987-91, Olds 1988-92, GM 12102747 GMC ST-1 Pickup 1988-91	Delco PT374
	#5606C (#5606PT) Camshaft Sensor Pigtail Buick 1986-90, Olds 1986-89, GM 12085538 Pontiac 1987-88 3-18 ga Leads	Delco PT148
	#5609C (#5609PT) Oil Pressure Switch Connector Fits all GM 3 Pin Switches	GM 12085499 Delco PT121
	#5610C (#5610PT) Exhaust Oxygen Sensor Pigtail 1-18 ga Lead GM 1982-90	GM 12117385 Delco PT517
	#5611C (#5611PT) Mixture Control Solenoid Pigtail 2 & 4 Barrel Rochester Varajet Carbs GM 1980-90	
	#5612C (#5612PT) Idle Air Control Pigtail 4-18 ga Leads GM 1982-90 w/Fuel Injection	GM 12085506 Delco PT127
	#5613C (#5613PT) Manifold Absolute Pressure Pigtail 3-18 ga Leads Green GM 12085502 Fits MAP Sensor #1637039 GM 1982+ Delco PT123	
	#5614C (#5614PT) Air Conditioner Pressure Switch Pigtail GM 12085507 3-18 ga Leads GM 1984-89 Gray Delco PT128	
	#5615C (#5615PT) Coolant Temperature Sensor 2-18 ga Leads GM 1985+	GM 12101899 Delco PT169
	#5616C (#5616PT) Manifold Air Temperature Sensor 2-18 ga Leads Fits Sensor #25036751 GM 1985+	GM 12102620 Delco PT307
	#5617C (#5617PT) Throttle Position Sensor 3-18 ga Leads Black GM 1983+ w/Fuel Injection	GM 12116257 GM 12101923 Delco PT195 Delco PT430
	#5618C (#5618PT) Coolant Temp Sensor 2-18 ga Leads GM 1984+ Fits Sensor #25036628	GM 12085488 Delco PT110

	#5620C (#5620PT) Heater Blower/Cooling Fan Motor 2-12 ga Leads Buick, Cad, Chevy, Olds, Pontiac 1982+ Delco PT189	GM 12101917
	#5621C (#5621PT) Multi Port Fuel Injector Solenoid 2-18 ga Leads Fits Lucas & Bosch Injectors Buick, Chevy, Olds, Pontiac 1986+	GM 12085491 Delco PT113
	#5622C (#5622PT) Alternator w/Internal Voltage Regulator 2-18 ga & 1-12 ga Leads GM 1986-90	GM 12101895 Delco PT494
	#5624C (#5624PT) Throttle Body Injector Connector GM 1978+ 2-18 ga Leads	GM 12102568 Delco PT285
	#5625C (#5625PT) Fuel Injector Connector 2-18 ga Leads Fits Lucas & Bosch Injectors	GM 12004311
	#5626C (#5626PT) Ignition Repair Harness 10 Leads GM CG & P Trucks 1967-93	
	#5631C (#5631PT) Washer Fluid & AC Compressor 2-18 ga Leads GM 1985+	GM 12101903 Delco PT175
	#5632C (#5632PT) Black Ignition Coil Repair Harness 2-18 ga Leads Buick, Cad & Chev 1985-91 Fits Coil #1115315 & 1115317	
	#5633C (#5633PT) Gray Ignition Coil Repair Harness 1-18 ga & 1-12 ga Leads Fits Coil #1115315 & 1115317 Buick, Cad & Chev 1985-91	GM 12101896 Delco PT166
	#5634C (#5634PT) Coolant Temperature & MAT Sensor 2-16 ga Leads GM 1990-93	GM 12085524 Delco PT134
	#5635C (#5635PT) Idle Speed Control Pigtail 4-18 ga Leads Assy #17079129 & #17079121 GM with V6 & V8 Carburetors 1981-87	
	#5636C (#5636PT) AC Compressor Low Pressure Switch 2-18 ga Leads GM w/ V-5 Compressor (3:00 Index)	GM 12085503 Delco PT124
	#5637C (#5637PT) AC Compressor High Pressure Switch 2-18 ga Leads GM w/V-5 Compressor (1:00 Index)	GM 12085521 Delco PT131
	#5638C (#5638PT) Fog/Cornering Lamp & Speed Sensor 2-18 ga Leads GM 1989+ Use w/Halogen Bulbs #881, 894 & 889 Delco PT120	GM 12085498 GM 12043215
	#5639C (#5639PT) Mass Air Flow Sensor 3-20 ga Leads GM Tuned Port Injection 1985-88	GM 12085492 Delco PT114
	#5640C (#5640PT) Coolant Temperature Switch 1-18 ga Lead GM 1980-92	GM 12102621 GM 12051234 Delco PT308
	#5642C (#5642PT) Window Lift Motor Harness 2-14 ga Leads GM 1979+	GM 12101914 Delco PT186
	#5643C (#5643PT) Throttle Position Sensor 3-20 ga Leads Fits Sensor #17112679 Chev, Buick, Olds, Pontiac 1990-94	GM 12102748 Delco PT375




















GM Service Repair Pigtails







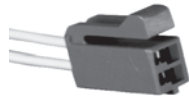









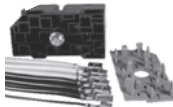


	#5644C (#5644PT) Single Pin Oil Pressure Switch 1-18 ga Lead GM "L", "Y" & "F" Bodies 1987-94	GM 12085500 Delco PT100
	#5645C (#5645PT) 4 Pin Oil Pressure Switch 4-18 ga Leads GM "E", "H" & "W" Bodies 1987-94	GM 12085539 Delco PT149
	#5646C (#5646PT) Fan Speed Switch Harness Switch #16015256 & #16032480 1-18 ga, 1-14 ga, 2-16 ga Leads	GM 1977+
	#5647C (#5647PT) Tail Lamp Repair Harness 4-18 ga Leads GM Full Size Pickups & Heavy Duty Trucks w/Metri-Pak Connection 1988+	
	#5648C (#5648PT) Cooling Fan Relay Harness Switch Relay #10038311 & #10032082 4-18 ga, 2-12 ga Leads GM 1985-88	GM 12101922 Delco PT194
	#5649C (#5649PT) MAP, Mass Air Flow Sensor 5-18 ga Leads GM 2.8 Engines w/Sequential Fuel Injection 1985-88	GM 12085497 Delco PT119
	#5650C (#5650PT) Gray Electric Choke Pigtail 1-18 ga Lead All GM with Carburetors 1982+	
	#5651C (#5651PT) Black Electric Choke Pigtail Trunk Release Switch GM without Fuel Injection 1987+	GM 12085480 Delco PT102
	#5652C (#5652PT) Direct Engine Speed/ Door Lock Actuator 2-18 ga Leads GM 1987-96	GM 12101855 Delco PT247
	#5653C (#5653PT) Heavy Duty Flasher/Mini Relay Thermal & Electronic w/Variable & Fixed Loads 5-14 ga Leads GM & Universal	
	#5654C (#5654PT) Fuel Pump, Instrument Panel, General Use 1-18 ga Lead GM 1990+	GM 12117353 Delco PT486
	#5655C (#5655PT) Clutch Switch Connector 2-18 ga Leads	GM 12101825 Delco PT217
	#5656C (#5656PT) 90° Universal Socket Sensor Temperature & 8 Stud Connections GM 1986+	GM 12112171 Delco PT404
	#5657C (#5657PT) Voltage Regulator w/Internal Regulators 3-18 ga & 1-12 ga Leads GM 1986+	GM 1116408 GM 1116411
	#5658C (#5658PT) Headlamp Switch 5-18 ga & 1-12 ga Leads GM 1968+	Fits Switch #1995217
	#5659C (#5659PT) Ignition Switch 1-5 Position & 1-4 Position Connectors 1-10 ga, 2-12 ga & 2-20 ga Leads GM 1969-92	
	#5660C (#5660PT) Blower Motor Switch Rear Compartment Switch #14040842 4-12 ga Leads GM Suburban 1984-91	GM 12102740 Delco PT367
	#5661C (#5661PT) Radio Lead to Windshield Antenna Chev & GMC Trucks 1973+	GM 6270498
	#5663C (#5663PT) Hook-up from GM HEI Distributor to Ignition 8" lead plugs into Distributor Cap	
	#5664C (#5664PT) HEI Hookup Distributor to Tachometer 16 ga Lead	
	#5665C (#5665PT) Coolant Temperature Sending Unit Late Model - 16 ga Lead	

Ford Service Repair Pigtails

	#5700C (#5700PT) Heater Blower & Radiator Cooling Fan Motor Fan: Ford 4 Cyl Eng 1979 1-14 ga, 1-12 ga Leads Blower: Ford Trucks, Pickups, Vans 1982-86	
	#5701C (#5701PT) Air Conditioner Clutch Coil Pigtail All Ford Products 2-18 ga Leads	
	#5702C (#5702PT) Internal Voltage Regulator Plug Pigtail 2-18 ga, 1-14 ga Leads Ford 1981-90	
	#5703C (#5703PT) Electronic Module E.E.C. IV Ignition Pigtail 6-14 ga Leads (Gray) E5ZZ-12A209A Ford 1981-91	
	#5704C (#5704PT) EEC IV Test Plug Pigtail 8-18 ga Leads Ford 1983+	
	#5705C (#5705PT) EGR Sensor Connector Pigtail 3-18 ga Leads Fits Sensor E6AZ-9J460-A Ford, Mercury 1988-91	
	#5706C (#5706PT) A/C Clutch Cycling Pressure Switch Pigtail 2-16 ga Leads Fits Switch E35Y-19E561-A Ford 1980-93	
	#5710C (#5710PT) Electronic Ignition Module E8TZ12A-297A 6-14 ga Leads (Black) Ford Light Trucks 1988-91	
	#5711C (#5711PT) Alternator Pigtail 2-10 ga & 1-20 ga Leads Ford 1981-89	
	#5712C (#5712PT) Ignition Coil Pigtail 2-18 & 1-16 ga Leads Fits Coil #E73Z-12029A Ford 1986+	
	#5713C (#5713PT) Ignition Coil Pigtail 2-16 ga Leads Fits Coil #F7TZ-12029-CC Ford 1999+	
	#5714C (#5714PT) Fuel Injector Pigtail with Oval Connector 1-18 ga & 1-16 ga Leads 4,6,8 & 10 Cyl Cars & Trucks Ford 1999+	
	#5715C (#5715PT) Alternator Pigtail Fits Alt #F81Z-10346-EARM 2-16 ga Leads Gray Housing Ford 1996+	
	#5716C (#5716PT) Alternator Pigtail Replaces #1U2Z-14S411-TA 3-14 ga Leads Black Housing Ford 1996+	
	#5719C (#5719PT) Fan Speed Switch Pigtail 2-12 ga, 1-14 ga & 1-16 ga Leads Switches E6DZ-19986-A, E9SZ-A, F2DZ-A, F2UZ-A & B Taurus, Cougar, Sable 1983-89, T-Bird 1989-93, E Trucks '92	
	#5720C (#5720PT) Engine Cooling Fan Pigtail 8 & 10 Position Connectors 5-12 ga Leads Ford E4FZ-8C290-A Ford 4 & 6 Cyl 1981-89	
	#5721C (#5721PT) Windshield Washer Pump Pigtail Pumps #EOAZ-17664-A & E3AZ-17664-A 2-18 ga Leads Ford 1968+	
	#5722C (#5722PT) Air Charge Temperature Sensor Pigtail 2-18 ga Leads Fits Sensor #E1AZ-12A697A Ford w/Fuel Injection 1981-86	

Ford Service Repair Pigtails

	#5723C (#5723PT) Engine Cooling Fan Switch Pigtail-Gray 2-14 ga Leads Fits Switch E43Z-8B607-A Ford 1984+
	#5724C (#5724PT) Engine Cooling Fan Switch Pigtail-Black 2-14 ga Leads Ford 1984+ Fits E5SZ-8B607-A & E4FZ-8B607-A
	#5725C (#5725PT) Fuel Pump Relay Connector Pigtail 1-18 ga, 2-16 ga & 1-14 ga Leads Fits Relay E3FZ-9345-B Ford 1982-93
	#5311C (#5311PT) Dash Headlamp Switch 9 Leads Ford "F" Trucks 1987-92
	#5730C (#5730PT) Headlamp Switch Repair Harness 6-18 ga, 1-16 ga & 1-12 ga Leads Fits Switch E6DZ-11654-A & F2DZ-A Taurus 1986-94, Sable 1980-94
	#5731C (#5731PT) Ignition Switch Repair Harness Fits Switch E7DZ-11572-A 4-10 ga Leads Taurus & Sable 1986-94
	#5732C (#5732PT) Door Jam/Master Cylinder/Power Mirror 3-14 ga Leads Ford Master Cylinder 1987 / Door Jam 1992
	#5733C (#5733PT) Ignition Coil Harness 2-18 ga Leads Ford Except Calif. Models 1977-84
	#5734C (#5734PT) AC Blower Motor Resistor Resistor Assembly #E7TZ-19A706-A 4-14 ga Leads Ford Trucks 1983+
	#5735C (#5735PT) Heater & AC Blower Switches 5-12 ga Leads Ford 1973+
	#5736C (#5736PT) Coolant Temperature Sensor Sensor #E1AZ-12A648-A 2-18 ga Leads Ford 1981+
	#5737C (#5737PT) Gray Exhaust Oxygen Sensor 3-18 ga & 1-16 ga Leads Ford Trucks 1989-94
	#5738C (#5738PT) Headlamp Switch Harness Fits Switch #E64Y-11654-A 5-18 ga, 2-14 ga, 1-12 ga Leads Sable 1986-89
	#5739C (#5739PT) Turn Signal Switch Harness Fits Switch #E7FZ-13341-A 5-18 ga Leads Ford 1985+
	#5740C (#5740PT) Turn Signal Switch Harness Fits Switch #E7FZ-13341-A 2-18 ga & 6-16 ga Leads Ford 1980-94
	#5742C (#5742PT) Manifold Absolute Pressure (MAP) Sensor 3-18 ga Leads Ford 1985+
	#5744C (#5744PT) Power Brake Repair Harness 2-18 ga Leads D1AZ-13410-A Ford 1965+
	#5745C (#5745PT) Electronic Ignition Module (3 Pin) 4-18 ga Leads Ford Cars & Light Trucks 1975-85 & 700 Series + Trucks 1975-91
	#5746C (#5746PT) Electronic Ignition Module (4 Pin) 4-16 ga Leads Ford 1975+

	#5747C (#5747PT) Alternator Regulator - A/C Clutch Field 1-16 ga Lead Ford 1994+
	#5748C (#5748PT) Ignition Switch Repair Harness Kit 4-12 ga & 3-10 ga Leads Ford 1981+
	#5749C (#5749PT) Black Exhaust Oxygen Sensor 3-18 ga & 1-16 ga Leads Ford 1989+
	#5750C (#5750PT) Mass Air Flow Sensor 1-16 ga & 3-18 ga Leads Ford 1989-92
	#5751C (#5751PT) EEC Relay Repair Harness 2-18 ga, 2-16 ga & 1-14 ga Leads Relay #E3AZ-12A646-A Ford 1983+
	#5752C (#5752PT) Throttle Position Sensor 3-18 ga Leads Sensor Base #9B989 Ford Taurus & Sable 1990+; Ranger, Explorer, Escort 1991+; Crown Victoria & Marquis 1992+
	#5753C (#5753PT) Idle Air By/Pass Valves / Headlamp Switch 1-18 ga & 1-16 ga Leads By Pass for Ford 1986-89 Headlamps for 1988-93 Mustang w/Fog Lamps
	#5754C (#5754PT) Headlamp Switch 6-18 ga & 2-12 ga Leads Ford Mustang 1987-93
	#5755C (#5755PT) Vehicle Speed & ABS Wheel Speed Sensor 2-18 ga Leads Ford 1993+
	#5756C (#5756PT) Inertia Fuel Shut Off Switch 2-14 ga & 1-18 ga Leads Ford 1990+
	#5757C (#5757PT) Repair Harness for Multi-Function Switches 2-16 ga & 2-12 ga Leads Ford
	#5758C (#5758PT) Repair Harness for Multi-Function Switches 9-16 ga Leads Ford
	#5759C (#5759PT) Repair Harness for Multi-Function Switches 10-16 ga Leads Ford
	#5760C (#5760PT) Repair Harness for Multi-Function Switches 11-18 ga Leads Ford
	#5761C (#5761PT) Repair Harness for Multi-Function Switches 3-20 ga & 4-16 ga Leads Ford
	#5762C (#5762PT) Radiator Cooling Fan Motor 1-12 ga & 2-10 ga Leads Ford Taurus, Sable, Continental & Escort 1990-96 Contour, Mystique w/1 motor 1995-97
	#5763C (#5763PT) Ignition Switch Harness Repair Kit 3-10 ga, 3-12 ga & 1-20 ga Leads Ford Lincoln, Mercury, Lt. Duty Trucks 1990+
	#5764C (#5764PT) Ignition Switch Repair Harness 2-12 ga & 4-14 ga Leads Ford Lt., Med. & Hvy. Duty Trucks 1970+
	#5765C (#5765PT) Horn & Blower Relay Harness Repair Kits 1 Connector & 1 Lock 1-10 ga, 1-12 ga, 1-14 ga, 1-16 ga, 1-18 ga Leads Ford Cars & Trucks

O.E.M. Electronic Terminals

All Items Available in "A" & "G" Bulk Pack Quantities - See Price Sheet

Exact OE Terminal & Housing Replacements For Vehicle Electronics
Eliminates Replacing Entire Wire Harness
Kits Available See Page 5

GM PAK-CON

	Part #	OEM #	GA	Qty	Description
	5800C 5800PT	6294511	20-18	5	Male Mates with 5801
	5801C 5801PT	6294512 12020346	20-18	5	Female Mates with 5800
	5802C 5802PT	12020320	16-14	5	Male Mates with 5803
	5803C 5803PT	12020347	16-14	5	Female Mates with 5802
	5804C 5804PT	12033817	12-10	5	Male Heavy Duty Series
	5805C 5805PT	8905087	16-14	5	Female Heavy Duty Series
	5806C 5806PT	12004996	16-14	5	Female Series II

GM METRI-PACK SERIES

	5810C 5810PT	12103881	20-18	5	Female - 150 Series Mates with 5811
	5811C 5811PT	12047581	20-18	5	Male - 150 Series Mates with 5810
	5812C 5812PT	12047767	20-16	5	Female - 150 Series
	5813C 5813PT	12052466	24	5	Female - 150 Series
	5814C 5814PT	12089340	20-18	5	150-1 Series
	5820C 5820PT	12034046	20-18	5	Female - 280 Series Mates with 5821
	5821C 5821PT	12034047	20-18	5	Male - 280 Series Mates with 5820
	5822C 5822PT	12066214	18-14	5	Female - 280 Series Mates with 5823
	5823C 5823PT	12020116	18-14	5	Male - 280 Series Mates with 5822
	5825C 5825PT	12124304	16-14	5	Female - 480 Series Mates with 5826
	5826C 5826PT	12020120	16-14	5	Male - 480 Series Mates with 5825
	5830C 5830PT	12015870	16-14	5	Female - 630 Series Mates with 5831
	5831C 5831PT	12020126	16-14	5	Male - 630 Series Mates 5830

GM MICRO-PACK SERIES

	5840C 5840PT	12040902	22	5	Male
	5841C 5841PT	12089649	20-18	5	Female
	5842C 5842PT	12020758	16-14	5	Female
	5845C 5845PT	12089507	20-18	5	GM Electronic Control Module

FORD TERMINALS

	5900C 5900PT	D1AB-14488-CA	20-18	5	Female Pin Type
	5902C 5902PT	D8BB-14474-BA D3AB-14474-DA	20-18	5	Female Box Type
	5904C 5904PT	D5AB-14474-FA D3AZ-14474-G	20-18	5	Female Snap-On
	5905C 5905PT	E7EB-14474-CA	20-18	5	1/8" Female - Mini Mates with 5906
	5906C 5906PT	E7EB-14421-EA	20-18	5	1/8" Male - Mini Mates with 5905
	5910C 5910PT	E8EB-14474-AMA	16-14	5	1/8" Female Micro
	5912C 5912PT	E8EB-14421-LA	16-14	5	1/8" Male - Mini Mates with 5911
	5913C 5913PT	E8EB-14474-VA	16-14	5	3/16" Female
	5920C 5920PT	E25B-14488-DA E8EB-14488-AHA	16-14	5	Power Window & Door Lock Terminal

CHRYSLER TERMINALS

	5940C 5940PT	3843601	20-18	5	1/4" Female Mates with 5941
	5941C 5941PT	3843386	20-18	5	1/4" Long Male Mates with 5940
	5942C 5942PT	4368163	20-18	5	3/32" Female Mates with 5943
	5943C 5943PT	7368261	20-18	5	3/32" Male Mates with 5942
	5945C 5945PT	3843601	16-14	5	1/4" Female Mates with 5946
	5946C 5946PT	3843386	16-14	5	1/4" Male Mates with 5945
	5947C 5947PT	4304729	24-18	5	PC Board & General Purpose

UNIVERSAL TERMINALS

	5950C 5950PT	GM 2965580 Chrys 2096467	14-12	5	1/4" Female Ford C1SF-14474-A
	5951C 5951PT	GM 2965470 Chrys 2096466	20-18	5	1/4" Female Ford C5AB-14474-B
	5846C 5846PT	2965880	16-14	5	GM Power Window & Door Lock
	1581A 1581C 1581PT	Ford Fuel Pump Sending Unit	18-20	500 25 25	Terminal For #5310 Housing
	1582A 1582C 1582PT	Ford Fuel Pump Sending Unit	14-16	500 25 25	Terminal For #5310 Housing

Weather Pack Tools



Easy to Repair Weatherpack Connections

#0660T

(#0660PT)

Extractor Tool

Extractor Pick Narrow .05"

Extractor Pick Wide .09"

Releases & Extracts GM, Ford & Chrysler
OEM Terminals From Their Housings



#0663T (#0663PT)

Crimping Tool

Crimps 24-14 GA Open Barrel Terminals
Makes Precision "F" Crimps
5 Different Crimp Nests



#0665T (#0665PT)

Crimping Tool











Crimps 24-14 Gauge Insulated,
Uninsulated, Open Barrel &
Weatherpack Terminals

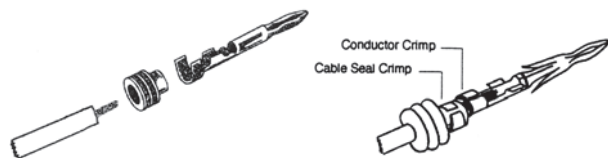


Weatherpack Connectors

All Items Available in "A" & "G" Bulk Pack Quantities - See Price Sheet

GM WEATHERPACK SERIES













	PART #	OEM #	GA	Qty	DESCRIPTION
	5849C 5849PT	12015193	12	5	Silicone Cable Seal Blue
	5850C 5850PT	12010293	16-14	5	Silicone Cable Seal Grey
	5851C 5851PT	12015323	20-18	5	Silicone Cable Seal Green
	5852C 5852PT	12010300	----	5	Silicone Cavity Plug
	5853C 5853PT	12089188	20-18	5	Female Mates with 5854
	5854C 5854PT	12089040	20-18	5	Male Mates with 5853
	5855C 5855PT	12124580	16-14	5	Female Mates with 5856
	5856C 5856PT	12124582	16-14	5	Male Mates with 5855
	5857C 5857PT	12124581	12	5	Female Mates with 5858
	5858C 5858PT	12124587	12	5	Male Mates with 5857



Easy to Repair Weatherpack Connections
 Slip Cable Seal Over Wire & Strip Wire Ends
 Insert Wire Until Insulation Butts Up To Conductor Ears Of Terminal
 Crimp Conductor Ears
 Slide Cable Seal Until It Rests In Middle Of Insulation Ears
 Crimp Insulation Ears

Extractor Picks & Tools See Page 30

UNIVERSAL HOUSINGS FOR GM TERMINALS

	PART #	OEM #	Qty	DESCRIPTION
	5860C 5860PT	12010996	1	1-Cavity Shroud Mates with 5861
	5861C 5861PT	12015791	1	1-Cavity Tower Mates with 5860
	5862C 5862PT	12010973	1	2-Cavity Shroud Mates with 5863
	5863C 5863PT	12015792	1	2-Cavity Tower Mates with 5862
	5864C 5864PT	12010717	1	3-Cavity Shroud Mates with 5865
	5865C 5865PT	12015793	1	3-Cavity Tower Mates with 5864
	5867C 5867PT	12010974	1	4-Cavity Shroud Mates with 5868
	5868C 5868PT	12015797	1	4-Cavity Tower Mates with 5867
	5869C 5869PT	12010975	1	6-Cavity Shroud Mates with 5870
	5870C 5870PT	12015799	1	6-Cavity Tower Mates with 5869
 NEW	5871C 5871PT	12065158	1	5-Cavity Round Shroud Mates with 5872
	5872C 5872PT	12034342	1	5-Cavity Round Tower Mates with 5871

ASSEMBLED WEATHERPACK CONNECTORS

Assembled Connectors with 18 Gauge Crosslink SXL Wire
 Temperature Rating -40°F to 275°F 20 Amps



#5790C (#5790PT)
Single Cavity Tower with Female Terminals



#5791C (#5791PT)
Double Cavity Tower with Female Terminals



#5792C (#5792PT)
Triple Cavity Tower with Female Terminals



#5793C (#5793PT)
Four Cavity Tower with Female Terminals



#5794C (#5794PT)
Four Cavity Square Tower with Female Terminals



#5795C (#5795PT)
Single Cavity Shroud with Male Terminals



#5796C (#5796PT)
Double Cavity Shroud with Male Terminals



#5797C (#5797PT)
Triple Cavity Shroud with Male Terminals



#5798C (#5798PT)
Four Cavity Shroud with Male Terminals



#5799C (#5799PT)
Four Cavity Square Shroud with Male Terminals

Pigtail Assemblies

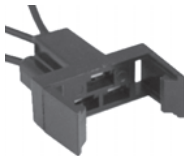
Pigtails Available in Bulk Quantities - See Price Sheet




#5304C
(#5304PT)
AC Blower Motor Relay
2-14 & 1-16 ga Leads
GM-Ford-Chrysler



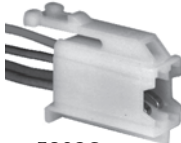
#5306C
(#5306PT)
Dimmer Switch Pigtail
Ford-Chrysler-AMC 1959-83




#5307C **(#5307PT)**
Dimmer Switch Pigtail
GM-Jeep 1960-84



#5308C **(#5308PT)**
A/C Compressor w/Diode
GM 12101907 1983-89
Delco PT179 2-18 ga Leads




#5309C
(#5309PT)
Front Radio Speaker
White 4 Leads
GM 1978-82



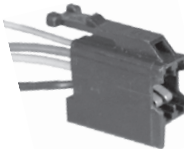
#5310C
(#5310PT)
Fuel Pump Sending Unit
Ford 1985-90
Includes 6 Terminals




#5311C
(#5311PT)
Dash Headlamp Switch
9 Leads
Ford "F" Trucks 1987-93



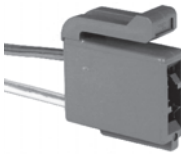
#5312C
(#5312PT)
Rear Radio Speaker
Blue 4 Leads
GM 1978-82




#5313C
(#5313PT)
Radio Power Supply
Black 4 Leads
GM 1978-82




#5314C
(#5314PT)
Radio Speaker
2-18 ga Leads
Ford 1988-89




#5315C
(#5315PT)
Radio Speaker
2-18 ga Leads
Ford 1989+




#5325C **(#5325PT)**
3-Prong Sealed Beam Lamp
with Fiber Optics
3-16 ga Leads
Domestic & Import Vehicles




#5407C **(#5407PT)**
Universal Sealed Beam
3-18 ga Leads
3 Prong Flasher
Bulb 9003 & H-4



#5409C **(#5409PT)**
Universal Sealed Beam
2 wires/2 Prong Flasher




#5435C **(#5435PT)**
Manual A/C & Horn Relay
GM-Chrysler-AMC
GM 2962510 1957-95




#5439C **(#5439PT)**
Universal 2-Wire Relay
Heater-A/C-Wipers
GM & Ford GM 1965-80
Do not replace connectors
with integral diode

ALTERNATOR & VOLTAGE REGULATOR HARNESS




#5327C **(#5327PT)**
Alternator Harness
Adapts SI to CS Series for
Vehicles w/out Alt Warn Light
GM 12102921 1988-95




#5328C **(#5328PT)**
Alternator Harness
Adapts SI to CS Series for
Vehicles with Alt Warn Light
GM 12083462 1988-95



#5329C
(#5329PT)
Electronic Voltage Regulator
Replaces #2983727
Chrysler 1972-87



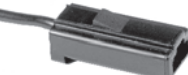
#5330C
(#5330PT)
Voltage Regulator
6 Leads
Ford 1975-89




#5331C
(#5331PT)
Alternator Pigtail
Ford 1975+ 2-16 ga



#5430C
(#5430PT)
Alternator Pigtail
Chrysler 1965-88



#5431C **(#5431PT)**
Accessory Harness for
Voltage Regulator /
Temperature Sending Unit
Chrysler 1965-76



#5432C **(#5432PT)**
Alternator Repair Harness
Transistorized with Internal
Regulator 1-12 ga & 1-16 ga
GM 624493 1971+



#5433C **(#5433PT)**
Alternator Repair Harness
GM Delcat 1962-76
with External Regulator
GM 2977373



#5434C
(#5434PT)
Alternator Extender Harness
With Transistorized Alternator
with Internal Regulator
GM 1971+



#5436C
(#5436PT)
Voltage Regulator
Repair Harness
Ford 1965-81



#5437C
(#5437PT)
Alternator Extender Harness
GM Delcat 1962-78
with External Regulator




#5438C
(#5438PT)
Voltage Regulator Repair
Harness
GM 1961-73 Delco 7700


HALOGEN HEADLAMP ASSEMBLIES



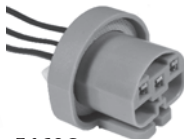
#5301C
(#5301PT)
Sealed Hi Beam
Mini Bulb 4701
2-16 ga Leads GM 86+



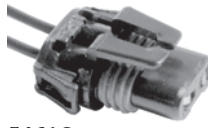
#5302C
(#5302PT)
Sealed Low Beam
Mini Bulb 4703
2-16 ga Leads GM 86+




#5459C
(#5459PT)
Ford 2004 & F150
3-16 ga Leads
Bulb 9008 & H13



#5460C
(#5460PT)
GM-Ford-Chrysler
3-18 ga Leads
Bulb 9007 & 9004



#5461C
(#5461PT)
High Beam
GM 12101898 2-18 ga Leads
Bulb 9005, 9145, H-10



#5462C
(#5462PT)
Low Beam
GM 12101897
Bulb 9006 2-18 ga Leads

Socket Assemblies

Sockets Available in Bulk Quantities - See Price Sheet

#5401C
(#5401PT)
Stop-Tail-Turn-Park
Universal Double Contact
Fits 7/8" to 1-1/8" Hole
Bulb 198, 1016, 1034, 1154, 1157



#5402C
(#5402PT)
3-Wire Universal
GM Double Contact
Stop-Tail-Turn-Park
Bulb 1034, 1154, 1157



#5403C
(#5403PT)
3-Wire Twist Lock
Stop-Tail-Turn-Park
GM 1969+ #8909908 & 8903283
Bulb 1034, 1154, 1157



#5404C
(#5404PT)
Universal Double Contact
Stop-Tail-Turn-Park
GM 1963-77 #8912698
Bulb 98, 1016, 1034, 1154, 1157



#5405C
(#5405PT)
Universal Single Contact
Backup Lamp
GM Exact Replacement
Bulb 67, 81, 1133, 1141, 1156



#5406C
(#5406PT)
GM/Ford Double Contact
Ford Stop & Tail
GM Stop-Tail-Turn-Park
Bulb 1034, 1154, 1157



#5411C
(#5411PT)
90° Double Contact
Stop-Tail-Turn-Park
GM '77, Chrys '88, AMC '79
Bulb 1157 GM 12003759



#5412C
(#5412PT)
90° Single Contact
Tail-Backup-Corner
GM 1977+ #12003758
Bulb 1003, 1073, 1129, 1133, 1141, 1156



#5413C
(#5413PT)
90° Double Contact
Stop-Tail-Turn-Park
GM 1980+ #12003757
Bulb 1034, 1154, 1157



#5421C
(#5421PT)
Universal Double Contact
With Fiber Washer
Bulb 64, 68, 82, 88, 90, 94, 210, 1004, 1034, 1074, 1130, 1154, 1157, 1158, 1176



#5422C
(#5422PT)
Universal Single Contact
With Fiber Washer
Lamp #63, 67, 81, 89, 93, 209, 1003, 1073, 1129, 1133, 1141, 1156



#5423C
(#5423PT)
Single Contact, Phenolic Disc
With Weatherproof Boot
Bulb 63, 67, 81, 87, 89, 93, 97, 1003, 1073, 1129, 1133, 1141, 1156



#5424C
(#5424PT)
Double Contact, Phenolic Disc
With Weatherproof Boot
Bulb 64, 68, 82, 88, 90, 210, 1004, 1034, 1074, 1130, 1154, 1157, 1158, 1176, 1178



#5425C
(#5425PT)
Double Contact Tail & Stop Lamp
GM 1976-95
12013813, 8919916
Bulb 1034, 1154, 1157



#5426C
(#5426PT)
Stop-Tail -Turn-Backup
GM 12083005 1988-95
Wedge Bulb 3057 & 3157



#5427C
(#5427PT)
Stop-Tail-Turn
GM 12083006 1988-95
Wedge Bulb 3057 & 3157



#5428C
(#5428PT)
Stop-Tail-Turn-Park
GM 12076946 1988-1995
Wedge Bulb 3057 & 3157



#5429C
(#5429PT)
Stop-Tail-Turn-Park
GM 12083680 1989-93
Wedge Bulb 3057 & 3157



#5440C **(#5440PT)**
Stop-Tail-Turn -Park
Double Contact Unvl 3/4" hole
Bulb 198, 1016, 1034, 1154, 1157



#5441C **(#5441PT)**
Stop-Tail-Turn -Park
Dbl Contact w/Ground Terminal
Ford 1970-80
D1AZ-13410-B, D2OZ-13410-B
Bulb 1034, 1154 & 1157



#5442C
(#5442PT)
License Plate & Instrument Panel
Unvl Single Contact 7/8" to 1-1/8"
Bulb 63, 67, 87, 89, 93, 209, 1003, 1073, 1129, 1133, 1141, 1156



#5443C
(#5443PT)
License Plate & Instrument Panel
Unvl Single Contact 5/8" Hole
Bulb 51, 53, 55, 57, 57X



#5444C
(#5444PT)
Backup Single Contact 1-1/8" Hole
GM, Ford, Chrysler
Bulb 63, 67, 81, 87, 89, 93, 97, 209, 1003, 1073, 1129, 1133, 1141, 1156



#5445C
(#5445PT)
Stop & Tail
1-1/4" Focal Length
GM 8903203 & 8914823
Bulb 1157



#5446C
(#5446PT)
Backup Lamp
GM 12085330 1990-95
Wedge Bulb 3156



#5447C
(#5447PT)
Stop-Tail-Turn-Park
GM 12083689 1990-92
Wedge Bulb 3057 & 3157



#5450C
(#5450PT)
Ford Single Contact
Backup & Rear 1973+
Bulb 1156 #D3AZ13410A



#5451C
(#5451PT)
Ford Double Contact
Tail Lamps 1973+
Bulb 1157 #D2AB14A553HA



#5452C
(#5452PT)
Ford Double Contact
Tail Lamps 1973+
Bulb 1034, 1157 #D2AB14A553FA



#5454C
(#5454PT)
Ford All Weather Single Contact
Tail-Turn-Park
Bulb 63, 67, 81, 87, 89, 93, 209, 1003, 1073, 1129, 1133, 1141



#5455C **(#5455PT)**
Ford All Weather Double Contact
Stop-Tail-Turn-Park
Bulb 198, 1016, 1034, 1154, 1157



Socket Assemblies

Sockets Available in Bulk Quantities - See Price Sheet

#5457C
(#5457PT)
Instrument Panel Cluster
Bulb 194 1/2" Hole
GM 1955+
Ford 1968+ Chry 1976+



#5458C
(#5458PT)
Instrument Panel Cluster
Bulb 194 5/8" Hole
GM 1957+
Ford 1987+ Chry 1963+



#5463C
(#5463PT)
Side Marker-Corner
Chrysler 1974-88
3764865 & 3843245
Bulb 87, 93, 1156



#5464C
(#5464PT)
Stop-Tail-Turn
Chrysler 1971-93
3764863, 3843431 & 3747831
Bulb 1157



#5465C
(#5465PT)
Turn-Park-Backup
Chrysler 1987-93
4400448, 4400741, 4636358
Wedge Bulb 2456 & 3156



#5466C **(#5466PT)**
Stop-Tail-Park-Turn-Side Marker
Chrysler 1979-92
3843432 & 4362469
Bulb 198, 1016, 1034, 1154, 1157



#5468C **(#5468PT)**
License Plate Lamp
Chrysler 1989-92
Chrysler 4414184
Bulb 194



#5469C **(#5469PT)**
Stop-Tail-Turn
Rear Lamps
Chrysler 4450815



#5470C
(#5470PT)
Turn-Park Lamps
Ford 1974-80
D4OZ-13234-A Bulb 1157



#5471C
(#5471PT)
Turn-Park Lamps
Ford 1973-77
D3MY-13410-A Bulb 1157



#5472C
(#5472PT)
Turn-Park Lamps
Ford 1974-80
D4ZZ-13234-A Bulb 1157



#5473C **(#5473PT)**
Turn-Park Lamps
Ford 1873-80
D3AZ-13410E & D8BZ-13412A
Bulb 1156



#5474C **(#5474PT)**
Stop & Tail Lamps
Ford 1973-80
D3AZ-13410-G Bulb 1157



#5475C **(#5475PT)**
Stop-Tail Lamps
Ford 1974-91
D4LY-13410-A Bulb 1157



#5476C **(#5476PT)**
Parking Lamps
Ford 1975-77
D5AZ-13234-A Bulb 1141



#5477C **(#5477PT)**
Tail-Park Lamps
Ford 1971-92
D5UZ-13410A & D1FZ-13234A
Bulb 1157



#5478C
(#5478PT)
Stop-Tail Lamps
Ford 1977-93
D7OZ-13410A & E25Y-13410-A
Bulb 1157



#5479C **(#5479PT)**
Stop & Tail Lamps
Ford 1983-93
E8PZ-13411-B
Wedge Bulb 3057, 3157, 2458



#5480C **(#5480PT)**
Side Marker & Corner
Ford 1987-93
E9AZ-15A434A & E9DZ-15A434A
Wedge Bulb 3156



#5481C **(#5481PT)**
Park & Turn Lamps
Ford 1981-93
E1FZ-13234A
Bulb 1157



#5482C
(#5482PT)
Park & Rear Lamp
Ford 1980-94
E0TZ-13410A & E2SZ-13410A
Bulb 1157



#5483C **(#5483PT)**
Backup Lamps
Ford Trucks & Bronco 1980-90
Bulb 1156



#5484C
(#5484PT)
90° Socket Base Lamp (Black)
Ford 1991+
Wedge Bulb



#5485C
(#5485PT)
Straight Socket Base (Brown)
Ford Windstar 1995+
Wedge Bulb



SIDE MARKER LAMP SOCKETS

#5408C **(#5408PT)**
Side Marker, License, Corner
Fits most US Mfg Vehicles
Bulb 67, 158, 194, 194A



#5410C **(#5410PT)**
Side Marker -License Plate
GM 12083460 GM 1982-95
Bulb 194



#5414C **(#5414PT)**
Chrysler 1974-92
3588314, 4450821,
4400147
Bulb 194 & 194A



#5415C **(#5415PT)**
Side Marker-Corner-Tail
GM 12001470 1976-92
Ford EOSZ-15A442B 1988-89
Bulb 161, 168, 194, 194A



#5419C **(#5419PT)**
Universal
Tap Trailer Lights Into
Existing Light System



#5416C **(#5416PT)**
Chrysler 1972-88
3513686, 4055028, 4400588
Bulb 67, 158, 194, 194A



#5417C **(#5417PT)**
License-Park-Tail
GM 1973-95
8912750 & 12003896
Bulb 194, 194A



#5418C
(#5418PT)
GM 1968-95
6298892 & 6298886
Bulb 194, 194A



#5630C **(#5630PT)**
GM 12083007
AC/Delco LS13
Wedge Bulb #24



#5420C **(#5420PT)**
Universal Utility Light
1-1/4" Truck Bumper Hole




Wire Color Codes

Recreational Vehicles 7-pole Connectors			
No.	Color	Circuits	Recommended Wire Gauge
1	White	Ground Return	10 Gauge
2	Blue	Electric Brake	12 Gauge
3	Green	Tail, License & Running Lights	14 Gauge
4	Black	Battery Charge	10 Gauge
5	Red	Stop & Left Hand Turn Signal	14 Gauge
6	Brown	Stop & Right Hand Turn Signal	14 Gauge
7	Yellow	Auxiliary Circuit	14 Gauge

Universal 6-pole Connectors		
No.	Color	Circuits
1	White	Ground Return
2	Brown	Tail Lights
3	Yellow	Left Turn
4	Red	Stop
5	Green	Right Turn
6	Blue	Auxiliary Circuit

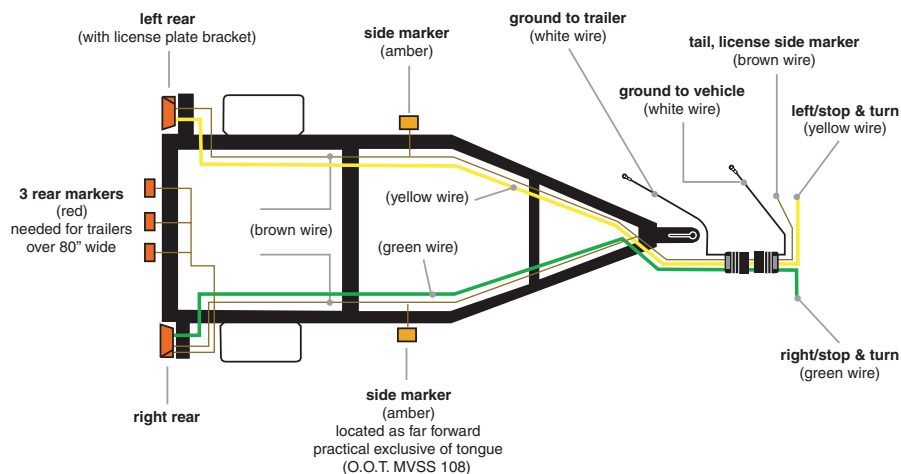
Heavy-duty 7-pole Connectors				
No.	Color	Circuits	Recommended Wire Gauge	FMVSS-121 Anti-lock
1	White	Ground Return	10 Gauge	8 Gauge
2	Black	Clearance, Side Marker & Identification Lamps	12 Gauge	12 Gauge
3	Yellow	Left Turn & Hazard Signal	12 Gauge	12 Gauge
4	Red	Stop Lamps & Anti-lock Devices	12 Gauge	10 Gauge
5	Green	Right Turn Signal & Hazard Signal	12 Gauge	12 Gauge
6	Brown	Tail, Rear Clearance, Marker & License Plate Lamps	12 Gauge	12 Gauge
7	Blue	Auxiliary Circuit	12 Gauge	12 Gauge

Universal 4-pole Connectors		
No.	Color	Circuits
1	White	Ground Return
2	Green	Right Turn & Brake Lights
3	Yellow or Red	Left Turn & Brake Lights
4	Brown	Tail Lights



NOTE: Check all circuits before operating vehicle.

TRAILER WIRING DIAGRAM



KATCO SERVICE PARTS INC.



Molded Connectors

- All molded connectors are manufactured with 16 gauge tinned copper wire, except the 8-contact connector which is manufactured with 3-12 gauge and 5-16 gauge wires.
- All 4-contact flat connectors are molded with an Easy Grip® for fast and easy disconnect.
- Color coding in accordance with S.A.E. recommended practice.

! SPECIAL NOTE !

All *male* connectors are shown on the left and all *female* connectors are shown on the right.
trailer = male tow vehicle = female



1-contact flat connector

1-Contact Flat	
Part No.	Description
AV9900	Male end only with 8" of wire
AV9901	Female end only with 8" of wire



2-contact flat connector

2-Contact Flat	
Part No.	Description
AV8770	Male/Female end with 8" of wire



3-contact flat connector

3-Contact Flat	
Part No.	Description
AV8769	Male end only with 8" of wire
AV8768	Female end only with 8" of wire



4-contact flat connector

4-Contact Flat	
Part No.	Description
AV10222	Male end only with 8" of wire
AV10223	Female end only with 8" of wire

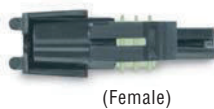
Contacts	Male End	Wire Colors	Female End
1	1	1. blue	1
2	1 2	1. brown 2. red	1 2
3	1 2 3	1. green 2. yellow 3. brown	1 2 3
4 flat	1 2 3 4	1. green 2. yellow 3. brown 4. white	1 2 3 4



Weather Pack Removal Tools

- Designed for the positive crimping of weather pack terminals.
- Quality tools for long-lasting and dependable service.
- Ratchet assembly assures a perfect crimp every time.

Part No.	Description
T3	Removal Tool, 1/8"



(Female)



(Male)
one-way housing



(Female)



(Male)
three-way housing



male terminal



female terminal



cavity seals



cavity plug

Weather Pack Environmental Connectors

- The weather pack is designed for the engine compartment of a vehicle. Also ideal for use in marine, agriculture and other harsh environmental applications.
- Audible snap-action locking for housing and secondary terminal lock helps reduce terminal stress, provide proper terminal positioning and provides access to the terminals for service.
- Stops in cavities to insure proper insertion of terminals.
- Indexed nylon housings are rated to -40°C to 125°C (-40°F to 257°F).
- Housing, terminals, plugs and seals are sold separately.



Three basic environmental seal tests were performed which involved salt, fog, immersion and immersion flex. Between lab tests and millions of miles logged on current vehicles, these connectors have proven reliable and provide a fail-safe environmental connection.

Part No.	Description	Contacts
12015791	Female Housing	1-way
12010996	Male Housing	1-way
12015792	Female Housing	2-way
12010973	Male Housing	2-way
12015793	Female Housing	3-way
12010717	Male Housing	3-way
12010974	Female Housing	4-way flat
12015797	Male Housing	4-way flat
12015798	Female Housing	4-way square
12015024	Male Housing	4-way square
12015799	Female Housing	6-way flat
12010975	Male Housing	6-way flat

Terminals

- Flex-pin and lap-lock design gives these terminals a positive connection rated for a continuous current of 20 amps.
- Dual "tangs" lock terminal into connector cavity.
- Cable seal crimp wings reduce strain on the cable core and assure proper positioning of the cable seal.

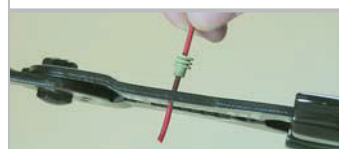
Part No.	Description	Gauge
12089188	Female Terminal, sealed	20-18
12124580	Female Terminal, sealed	16-14
12124581	Female Terminal, sealed	12
12089040	Male Terminal, sealed	20-18
12124582	Male Terminal, sealed	16-14
12124587	Male Terminal, sealed	12

Cavity Seals & Plugs

- Self-lubricating, silicone seals have multiple "ribs" to guard against dust, moisture, engine compartment fluids and chemicals.
- Cavity seals are crimped to the terminal to assure positive position of the seal in the housing cavity.
- The cavity plug is designed to fill and seal unused cavities.

Part No.	Style	Gauge
12015323	Green	20-18
12010293	Grey	16-14
12015193	Blue	12
12010300	Green Cavity Plug	—

Assembly Instructions



1. Apply seal to cable, before stripping insulation.



2. Crimp terminal onto stripped wire and seal and insert into connector housing.



3. Once all terminals are inserted, lock wire and seals as shown above.



4. Once steps 1, 2, and 3 are completed for male and female housings connect together until locked.

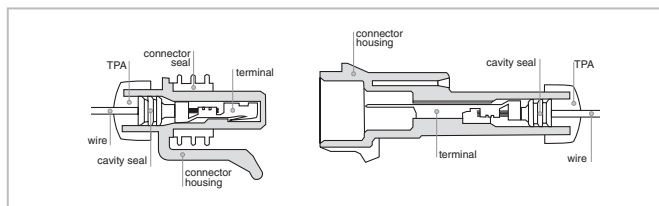
KATCO SERVICE PARTS INC.





Metri-Pack™ Sealed 280 Series Connector Housings

- Positive locking action ensures proper connection between housings.
- Made from heat stabilized, impact modified Polyamide 66 material.
- Tri-ribbed seal on female housing aids in resistance to harsh environments.
- Temperature rating: -40°C to 125°C (-40°F to 257°F).
- Available in 1 through 5 connector housings.



Part No.	Description	Contacts
12065172	Female Housing	1-way
12065171	Male Housing	1-way
15300027	Female Housing	2-way
15300002	Male Housing	2-way
12040977	Female Housing	3-way
15300003	Male Housing	3-way
12129565	Female Housing	4-way
12129600	Male Housing	4-way
12084891	Female Housing	5-way
12186400	Male Housing	5-way

Terminal Position Assurance - TPA

- Firmly holds terminals in connector housings.
- Helps reduce tension between terminal and wire connection.
- Made from heat stabilized, impact modified Polyamide 66 material.
- Temperature rating: -40°C to 125°C (-40°F to 257°F).



Part No.	Description	Contacts
12065249	Male & Female	1-way
15300014	Male & Female	2-way
12034145	Female	3-way
15300015	Male	3-way
15300016	Female	4-way
12092733	Male	4-way
15300017	Female	5-way
12084673	Male	5-way

Terminals

- Terminals are push-to-seat with a continuous current 30 amp rating.
- Singular "tang" locks terminal into housing, ensuring proper insertion.
- Tin-plated for added protection from corrosion.



Part No.	Description	Gauge (mm ²)
12077412	Female Terminal, sealed	12-14 (3.0-2.0)
12077411	Female Terminal, sealed	16-18 (1.0-.80)
12084201	Female Terminal, sealed	20-22 (.50-.35)
12048254	Male Terminal, sealed	12-14 (3.0-2.0)
12040559	Male Terminal, sealed	16-18 (1.0-8.0)
12124977	Male Terminal, sealed	20-22 (.50-.35)



Metri-Pack Removal Tools

- Designed for the positive crimping of Metri-Pack™ terminals.
- Quality tools for long-lasting and dependable service.
- Ratchet assembly assures a perfect crimp every time.

Part No.	Description	Gauge
T4	Metri-Pack™ Removal Tool	—



cavity seals



cavity plug

Cavity Seals & Plugs

- Self-lubricating, silicone seals have multiple "ribs" to guard against dust, moisture, engine compartment fluids and chemicals.
- Cavity seals are crimped to the terminal to assure positive position of the seal in the housing cavity.
- The cavity plug is designed to fill and seal unused cavities.

Part No.	Style	Gauge
12041351	Green	18-20
12015393	Grey	16-14
12015193	Blue	12
12010300	Green Cavity Plug	—



Trailer Connector Adapters

- Innovative 1-piece molded design adapts 7, 6 or 4-way trailer connectors.
- Manufactured to interchange with standard trailer and molded connectors.
- Manufactured from nylon material for corrosion resistance.
- Socket material and molded connector wire lengths may vary, but function remains the same.

Part No.	Description
12-717	6-way round pin to 4 flat molded conn
12-716	7-way mobile home/RV to 4 flat molded conn
12-729	7-way mobile home/RV to 6-way round pin



plug



socket

Small Trailer Connectors

- Two- and four-contact 20 amp connectors.
- Polarized contacts with screw connections protected by rubber boots.
- Length 2 1/8".
- 6, 12 and 24 volt applications.
- Plug and socket supplied as complete unit.

Part No.	Description
11-200	2 contact, complete unit
11-405	4 contact, complete unit

KATCO SERVICE PARTS INC.





7-contact Truck/Trailer Connectors

- 40 amp connector with heavy gauge drawn steel plug and socket.
- Interchanges with most other 7-contact connectors.
- Has a polarized round brass contact.
- Socket cover locks in place and keeps out elements when not in use.
- Mounting holes 2¹⁵/₁₆" on centers.
- Cadmium plated.

Part No.	Description
11-702	Plug
11-721	Socket
11-763	Protector Spring
11-761	Connector boot



7-contact Truck/Trailer Connectors

- Seven-contact plug and socket.
- Nylon material helps eliminate corrosion, rust and poor appearances.
- 6 terminals accept up to 10 gauge, 1 up to 8 gauge.
- Labeled to industry standards.
- Rated to 40A continuous at 6-28V DC.

Part No.	Description
11-710	Nylon Plug
11-724	Nylon Socket, Solid Pin



7-contact Mobile Home/RV Connectors

- Seven contact RV connector and plug.
- Nylon material helps to eliminate corrosion, rust and poor appearance.
- Design incorporates dual handles for ease of insertion and removal.
- Labeled to industry standards.

Part No.	Description
12-706	Nylon Plug
12-707	Nylon Socket
12-7110	Mounting Bracket



OEM Style RV Socket and Harness Kit

- Kit includes socket, 4-ft harness with connector and mounting bracket
- The 7-wire leads are color-coded to RVI standards for ease of installation.
- Assembly is corrosion resistant featuring tin-plated copper alloy terminals and silicone at the rear of the socket to complete a sealed connection.
- Fits many popular OEM truck applications.

Part No.	Description
11-898P	OEM Style RV Socket and Harness Kit

6-contact Metal Connectors & Boots

- 35 amp connector with die cast metal construction and spring-loaded cover.
- Round brass contacts are interchangeable with other popular 6-way connectors.
- Mounting holes 2¹⁵/₁₆" on centers.



Part No.	Description
11-604	Plug
11-607	Socket
11-617	Mounting Bracket
11-616	Boot



4-contact Round Trailer Connector

- Rated to 35 amps at 12-24 volts with a zinc metal construction.
- Spring-loaded cover protects split pin design.
- Extended barrel of socket supports and conceals terminal connection.
- Two ¼" mounting holes 2-7/8" center-on-center.



Part No.	Description
11-402	Plug
11-404	Socket

Single-contact Trailer Connectors

- Ideal for almost all heavy-duty power applications.
- Provides power from battery to auxiliary equipment.
- Interchangeable with competitive brands.
- Rated for 300A continuous duty.
- Pin accepts up to 2/0 cable (solder connection) and grounding lug is 4-2 gauge cable.



Part No.	Description
11-852	Plug
11-851	Socket



LEDLIGHTS

Longer Life LED lamps have a 100,000 hour rated life, which results in lower long-term costs. While traditional incandescent lamps last 1-2 years before replacement is needed, LED lamps can have a life expectancy of up to 20 years.

Brighter Illumination LED lamps are brighter and illuminate faster with a lower current draw. Incandescent bulbs can lose up to 90% of their energy in light blocked by colored lenses; LEDs deliver 100% of their energy as colored light.

Greater Durability LED lamps are shock and vibration resistant. Most circuits are epoxy resin coated to resist moisture and corrosion. For added assurance, polycarbonate lenses and housings are sonically sealed.



4" Round LED Stop, Tail, Turn Lamps

- These low count LED lamps are manufactured with a high impact polycarbonate lens that is sonically sealed to housing.
- The super 10 LED provides superior illumination, lasting up to 100,000 hours.
- They are rated for 8-14 volts DC and are a cost effective retrofit for your current lighting.
- Female receptacles are grease filled and the connections are potted for longevity.
- Use standard 4" grommet and male pigtails for mounting and connection.
- SAE and DOT rated.

Part No.	Description
YA24414R	LED, 4" Red, 10 diode
YA24414A	LED, 4" Amber, 10 diode



4" Round Steel Case LED Stop, Tail, Turn Lamp

YEAR

- This low count 12 diode LED lamp is manufactured with a high impact polycarbonate lens that is sonically sealed and encased within a powder-coated steel housing.
- The theft resistant lamp provides up to 100,000 hours of illumination and is rated for 8-14 volts DC.
- Wire leads are hard-wired directly into lamp for a weather resistant connection.
- SAE and DOT rated.

Part No.	Description
YA24417R	LED, 4" Red, 12 diode



4" Sealed LED Stop, Tail, Turn Lamp

- 100,000 hour rated life.
- High impact polycarbonate lens and housing sonically sealed.
- Wide spectrum illumination 5mm LED.
- Greased filled terminals.
- Uses standard male pigtail and grommet
- DOT and SAE rated.
- FMVSS 108 US / CMVSS 108 Canadian compliant.

Part No.	Description
YA24416R	Red LED Lamp, 40 diode, 4"
YA24416A	Amber LED Lamp, 40 diode, 4"





Oval LED Stop, Tail, Turn Lamps

- These low count LED lamps are manufactured with a high impact polycarbonate lens that is sonically sealed to housing.
- The super 10 LED provides superior illumination, lasting up to 100,000 hours.
- They are rated for 8-14 volts DC and are a cost effective retrofit for your current lighting.
- Female receptacles are grease filled and the connections are potted for longevity.
- Use a standard oval grommet and male pigtails for mounting and connection.
- SAE and DOT rated.

Part No.	Description
YA24419R	LED, Oval Red, 13 diode
YA24419A	LED, Oval Amber, 13 diode



Oval Sealed LED Stop, Tail, Turn Lamp

- 100,000 hour rated life.
- High impact polycarbonate lens for superior light distribution and visibility.
- Epoxy resin sealed electronics are moisture, corrosion and vibration proof.
- Grease filled terminals.
- Uses standard male pigtail, grommet , or bracket.
- DOT and SAE rated.
- FMVSS 108 US / CMVSS 108 Canadian compliant.

Part No.	Description
YA24402R	Red LED Lamp, 40 diode
YA24402A	Amber LED Lamp, 40 diode



Rectangle LED, Stop, Tail, Turn Lamp

- 100,000 hour rated life.
- Can be used as a marker lamp or rear tail lamp.
- High impact polycarbonate lens & housing sonically sealed.
- Moisture, vibration and corrosion proof.
- Uses standard 3-contact male pigtail and grommet.
- Meets DOT and SAE specifications.

Part No.	Description
YA24425R	Red LED Lamp, 56 diode
YA24425A	Amber LED Lamp, 56 diode



Pigtail Plugs

- 3-contact pigtails for use with standard stop, tail, turn lamps.
- Plugs are manufactured to replace existing pigtails or new installation.
- Both have a 11" of lead wire.
- Each includes the grounding wire pre-terminated with a ring terminal.

Part No.	Description
PM431-491	3-contact Plug

KATCO SERVICE PARTS INC.





2" & 2½" Sealed LED Clearance Marker Lamp

- 100,000 hour rated life.
- High impact polycarbonate lens and housing sonically sealed.
- Grease filled terminals.
- Uses standard male pigtail and grommet
- DOT and SAE rated.

Part No.	Description
YA24163R	Red LED Lamp, 13 diode 2½"
YA24163A	Amber LED Lamp, 13 diode 2½"
YA24164R	Red LED Lamp, 9 diode 2"
YA24164A	Amber LED Lamp, 9 diode 2"



2" & 2½" Sealed Beehive LED Clearance Marker Lamp

- 100,000 hour rated life
- Used as rear clearance marker lamps for trailers 30-ft or longer.
- High impact polycarbonate lens & housing sonically sealed.
- Uses 2-contact male pigtail and grommets
- Meets DOT and SAE specifications.

Part No.	Description
YA24166R	Red LED Beehive, 9 diode, 2"
YA24166A	Amber LED Beehive, 9 diode, 2"
YA24165R	Red LED Beehive, 13 diode, 2½"
YA24165A	Amber LED Beehive, 13 diode, 2½"



Rectangle LED Clearance Marker Lamps

- The acrylic, reflector lens of this lamp mounts over high impact plastic housing, using a stainless steel bezel.
- A popular choice found on Peterbilt® trucks, but can also be used to upgrade current cab marker lamp.
- The hard wired connections are sealed in epoxy for added weather resistance and shock absorption.
- Easily mounts with standard 4" center-to-center mounting holes.
- Rated for 8-14 volts DC and up to 100,000 hours of life.
- SAE and DOT rated.

Part No.	Description
YA24170R	LED, Rectangle Red, 12 diode
YA24170A	LED, Rectangle Amber, 12 diode

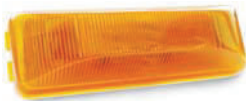




LED Clearance Marker Lamp — Scalloped

- 100,000 hour rated life.
- Epoxy resin sealed circuit board for corrosion and vibration resistance.
- Acrylic lens snap-seals onto ABS housing.
- 7" lead wire and self grounding.
- DOT, S.A.E. and PC rated.

Part No.	Description
YA24168R	Red LED Lamp, scalloped, 13 diode
YA24168A	Amber LED Lamp, scalloped 13 diode



Thin-line Sealed LED Clearance Marker Lamp

- 100,000 hour rated life.
- High impact polycarbonate lens and housing sonically sealed.
- Use pigtail and mounting bracket combo
- DOT, SAE and PC rated.

Part No.	Description
YA24161R	Red LED Lamp, 12 diode
YA24161A	Amber LED Lamp, 12 diode



Mini LED Clearance Marker Lamp

- 100,000 hour rated life.
- Used as an identification marker lamp when space is limited.
- High impact, polycarbonate housing with acrylic lens.
- Uses standard 2-contact male pigtail and bracket
- Meets DOT and SAE specifications.

Part No.	Description
YA24162R	Red, LED Lamp, 1 diode
YA24162A	Amber, LED Lamp, 1 diode



4" Round LED White Backup Lamp

- A high count, white, LED diode lamp that is durable and affordable.
- The polycarbonate lens is sonically sealed to housing.
- A direct replacement for the standard 4" incandescent lamp; can also be used as a back-up light or auxiliary lighting.
- Female receptacle is grease filled and potted for resistance to corrosion.
- Uses standard 4" grommet and male pigtails
- Rated to 8-14 volts DC and up to 100,000 hours of life. SAE and DOT rated.

Part No.	Description
VSM4464W	LED, 4" Crystal, 19 diode

KATCO SERVICE PARTS INC.



INCANDESCENT LIGHTS

Several styles of DOT-certified truck and trailer lamps, lamp accessories, reflectors and replacement mirrors are offered. These products are heavily used in the trucking industry, but can be used by construction equipment and farm implement original equipment manufacturers.

Resistant to shock, vibration, heat, moisture and corrosion, these lighting products provide a lifetime of trouble-free performance.



4" Sealed Stop, Tail, Turn Lamp

- Hermetically sealed lamp.
- Rugged, safe construction able to absorb vibration & road shock.
- Uses all standard 3-contact male pigtail connectors
- Grease filled terminals to prevent corrosion.

Part No.	Description
PM426R	Red Lamp, 4"
PM426A	Amber Lamp, 4"



Oval Stop, Tail, Turn Lamps

- Hermetically sealed polycarbonate housing & lens to resist moisture.
- Compatible with competitive components.
- Uses standard 3-contact male pigtail connector
- Grease filled terminals to prevent corrosion.

Part No.	Description
PM421R	Red Lamp, oval
PM421A	Amber Lamp, oval



Steel Base Stop, Tail, Turn Lamp — Economy Steel Lamp

- Durable black steel construction.
- Easily mountable.
- Manufactured with an acrylic snap-on style lens.
- Pre-wired for fast and easy installation.

Part No.	Description
PM413	Red Lamp, 4"



Universal 3-stud Mount Lamp

- Mounted on back of truck for tail lamp applications.
- High impact, polycarbonate housing with acrylic lens.
- Triangle, three-stud mounting pattern.
- Bulb: 2057 for stop and tail; 1156 for reverse light.

Part No.	Description
PM445	Red, Universal 3-stud Mount Lamp





2" & 2½" Sealed Clearance Marker Lamp

- Constructed to fit all popular standard grommet & bracket mounting systems.
- Hermetically sealed housing and polycarbonate lens.
- Uses all standard two contact male pigtail connectors
- Grease filled terminals to prevent corrosion.
- 2" Lamp fits in smaller places where 2½" will not fit.

Part No.	Description
PM142R	Red Lamp, 2½"
PM142A	Amber Lamp, 2½"
PM146R	Amber Lamp, 2"
PM146A	Red Lamp, 2"



Sealed Side Marker & Turn Signal Lamp

- Placed at mid-trailer for turn signal or rear vehicle applications.
- Shock resistant design for bulb longevity.
- High impact polycarbonate lens and housing sonically sealed.
- Uses standard oval grommet and 3-contact male pigtail
- Meets DOT and SAE AEP2 specifications.

Part No.	Description
PM352R	Red, Marker Lamp
PM352A	Amber, Marker Lamp

Pigtail Plugs

- Choose from a variety of pigtail plugs to hook-up your single or dual function lamps.
- Each includes the grounding wire pre-terminated with a ring terminal.
- The in-line features 6.5" of lead wire, while the others feature 11" of lead wire.



Part No.	Description
PM142-49	2-contact Plug

Pigtail Plugs

- 3-contact pigtails for use with standard stop, tail, turn lamps.
- Plugs are manufactured to replace existing pigtails or new installation.
- Both have a 11" of lead wire.
- Each includes the grounding wire pre-terminated with a ring terminal.



Part No.	Description
PM431-491	3-contact Plug

KATCO SERVICE PARTS INC.





2 Bulb Clearance Marker Lamp — Scalloped

- Manufactured with a scalloped-style lens.
- Lamp is constructed of acrylic lens that snap-seals into the ABS housing.
- Lamp includes pre-attached corrosion-resistant pigtails.
- Socket construction prolongs bulb life.

Part No.	Description
PM138A	Amber Lamp, Scalloped
PM138R	Red Lamp, Scalloped



2 Bulb Clearance Marker Lamp — Oval

- Lamp is constructed of a Duramold plastic housing with snap-on lens.
- Lamp includes pre-attached corrosion-resistant pigtails.
- Socket construction prolongs bulb life.

Part No.	Description
PM135A	Amber Lamp, Oval, 2 bulb
PM135R	Red Lamp, Oval, 2 bulb



Clearance Marker Lamps — Rectangle

- The polycarbonate lens of this lamp is sonically sealed to high impact housing.
- The dual #193 bulbs are sealed in epoxy for added weather and shock resistance.
- Thin construction allows for installation in a variety of places where space is a concern.
- Easily mounts using a standard pigtail and bracket combination
- Rated for 8-14 volts DC.
- SAE, DOT and PC rated.

Part No.	Description
PM154R	Red, Thin-line
PM154A	Amber, Thin-line



Clearance Marker Lamps — Rectangular

- Manufactured with shock absorbing body and designed to resist corrosion.
- Includes built-in reflective lens and lead wire.
- One stud mounting for easy installation.

Part No.	Description
PMV114R	Red Marker Lamp, Rectangle
PMV114A	Amber Marker Lamp, Rectangle





Clearance Marker Lamps — Steel Armored

- Manufactured with a steel housing.
- Equipped with a rubber gasket to ensure proper seal.
- Flat back design enables you to mount without disassembly.
- Also available in Blue & Green

Part No.	Description
PM119R	Red Lamp
PM119A	Amber Lamp



Clearance Marker Lamps — Bar Style

- Mounted on rear of trailers to indicate the presence of wide vehicle.
- Mounted 6" on center.
- Meets DOT and SAE P2, P3 specifications.

Part No.	Description
PM104-3R	Low profile, 2½" Clearance Marker
PM104-3A	Narrow, trim-line Clearance Marker
PM104-3R	Narrow, trim-line Clearance Marker



Square Submersible Boat Trailer Lamps

- Built-in Class "A" reflectors on rear and side lenses.
- Popular square design.
- Designed and manufactured for durability and strength.

Part No.	Description
PM441LW	Submersible Trailer Lamp w/License Window
PM441	Submersible Trailer Lamp



Square Stop, Tail, Turn Lamps

- Built-in Class "A" reflectors on both rear and side lenses.
- Easy insertion points for wire, eliminating need for pigtail connectors.
- Easy installation with 2-stud mounting.

Part No.	Description
PM440	Stop, Tail, Turn Lamp w/Side Marker
PM440L	Stop, Tail, Turn Lamp w/Side Marker & License Window

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3" Stick-on Round Reflectors

- Adhesive backing effortlessly mounts to any flat surface for permanent usage.

Part No.	Description
PM475R	Red Reflector
PM475A	Amber Reflector



3¼" Center Mount Reflectors

- Hermetically sealed center mount reflector.
- Mounts quickly with a #10 screw (not included).

Part No.	Description
PM476R	Red Reflector, 3¼"
PM476A	Amber Reflector, 3¼"



4⅜" Stick-on Rectangle Reflectors

- Versatile mounting option lets you apply the reflector with either the adhesive backing or mounting holes.
- Mounting holes require #8 screws (not included).

Part No.	Description
PM487R	Red Reflector
PM487A	Amber Reflector



3M Scotchlite™ Reflective Tape

- Red/white conspicuous tape is designed to mark the side and rear perimeter of trucks and trailers for enhanced visibility and detection.
- 100% plastic, non-corrosive and edge sealed.
- Alternates 11" red and 7" white, also available in alternating 6" red and 6" white (ideal to sell by the foot, one red and one white = 1-ft).
- Certified to meet the NHTSA standards.

Part No.	Description	Size
3M985-32ES	Red/White Reflective Tape	Bulk Roll- 2" x 150-ft (alternates 6" red, 6" white)



A National Highway Traffic Safety Administration (NHTSA) federal rule effective December 1, 1993 requires new truck trailers to be marked with highly reflective conspicuity material on the trailers sides and rear. Although this new visibility standard does not apply to trailers currently in use or those manufactured prior to 12/1/93 many fleet owners will want to retrofit their trailers. More than ⅔ of heavy-vehicle rear-end fatalities occur at night. Liability claims are 35% higher for night time accidents. The average car into truck accident damages total \$265,000. Drivers rely on what they can see, and reflectorized tape provides faster, more accurate decision-making by providing better visual information.





4" Sealed Reverse Lamp

- Hermetically sealed lamp.
- Rugged, safe construction able to absorb vibration and road shock.
- Uses all standard three contact male pigtail connectors
- Grease filled terminals to prevent corrosion.

Part No.	Description
PM415	Crystal Lamp, 4"



Oval Reverse Lamp

- Hermetically sealed housing and lens to resist moisture.
- Compatible with competitive components.
- Uses standard 3-contact male pigtail connector
- Grease filled terminals to prevent corrosion.

Part No.	Description
PM416	Crystal Lamp, Oval



2" & 2½" Sealed Clearance Marker Lamp

- Constructed to fit all popular standard grommet and bracket mounting systems.
- Hermetically sealed housing and lens.
- Uses all standard two contact male pigtail connectors
- Grease filled terminals to prevent corrosion.
- 2" Lamp fits in smaller places where 2½" will not fit.

Part No.	Description
PM142C	Crystal Lamp, 2½"
PM146C	Crystal Lamp, 2"



Rubber Tractor Light

- All-purpose Par 36 sealed beam tractor with rubber-coated housing.
- Shock absorbing body provides protection.
- 12 volt, sealed beam #4411 light.
- Unit is mounted on swivel base bracket.

Part No.	Description
PM508	Tractor Light

KATCO SERVICE PARTS INC.





Rectangle License Lamp

- Hermetically sealed two-bulb design.
- Direct replacement for competitive units.

Part No.	Description
PM154C	License Lamp



License Illuminator

- Chrome-plated steel construction and flat mounting bracket provide shock-proof durability.
- Equipped with a clear lens.
- Can be used for various applications.

Part No.	Description
PM435	License Illuminator



Chrome License Plate Lamp

- For illumination of license plate.
- Metal base mount with a chrome plastic housing.
- Meets DOT and SAE specifications.

Part No.	Description
PM436SX	Chrome License Plate Lamp



License/Utility Light

- Fits GM/GMC truck with step bumper.
- Bulb: 67
- 12 volt DC.

Part No.	Description
PM394C	License/Utility Light





Back-up Alarms

- Heavy-duty steel housing construction for tough applications.
- Compact design.
- Includes universal mounting brackets for maximum location options.
- Alarms are covered by a 2 year warranty.

Part No.	Description	dB	volts	SAE type
PR1020	Self-adjusting, heavy-duty back-up Alarm	70-102dB	12-24V	B-D
PR240	Light-duty back-up Alarm	97dB	12V	C



Back-up Switches

- Designed and manufactured for vehicles not equipped with back-up circuits.
- Item #9130 has 360° movement and is selectable to normally open or normally closed.
- Single pole, double throw (S.P.D.T.).
- Both are covered by a full 1 year warranty.

Part No.	Description
CH8486	Light-duty back-up Alarm Switch
PRHDS54/SS	Heavy-duty back-up Alarm Switch



SAE J1318 STROBE RATING

CLASS I- Primary warning lamps for authorized emergency vehicles. Four times brighter than CLASS II. Ten times brighter than CLASS III.

CLASS II- Primary warning lamps for authorized maintenance vehicle.

CLASS III- Primary warning lamps for vehicles that are authorized to display warning lamps.



Medium Profile Beacon

- This economical and compact strobe (5.5" x 2.8") operates as a single flash, producing 1.5 joules.
- An integral flange allows for flush or 1" pipe mounting and is pre-wired for ease of installation.
- The polycarbonate lens illuminates 360° and nylon base provides vibration protection.
- It is designed to meet UL 583 for class E, ES and EE industrial trucks and meets SAE J1455, J1318 and is CE certified.
- Reverse polarity and voltage transient protected.

Part No.	Description	Joules	volts	FPM
PR3950	Medium Profile Beacon	1.5	12-80V	85 ± 15



Low Profile Beacon, Permanent & Magnet Mount

- An economical, light-duty strobe (3.9" x 5.1") that features a field replaceable bulb that requires no tools.
- This strobe covers all low intensity applications while operating at 12-80 VDC and 70 FPM producing 1.5 joules.
- A UV stabilized polycarbonate lens with a nylon base provides vibration resistance.
- Designed to meet SAE 1455 (transient protection), J1318 (vibration and corrosion resistance) and tested to UL 583 safety standard for type E, ES and EE for industrial trucks.
- Reverse polarity and voltage transient protected.
- Magnet mount includes a 15-ft straight cord with 12V lighter attachment.



Part No.	Description	Joules	volts	FPM
PR3318	Low Profile Beacon	1.5	12-80V	70 ± 15
PRMK3318	Low Profile Beacon, mag mnt	1.5	12-80V	70 ± 15



Auxiliary 12 Volt Lighter Socket

- Lighter plugs with protective snap-on cover.
- Standard .250" push-on terminals for wire connection.
- 1.100" mounting hole.

Part No.	Description
DC73549	Auxiliary 12 Volt Lighter Socket





Medium-duty Beacon, Permanent & Magnet Mount

- Designed to meet most side-of-the-road warning applications, this low profile beacon (4.9" x 6.5", & 6.7" x 6.5") produces either double or quad flash.
- Integral nylon base allows for flush or 1" pipe mounting and resists vibration.
- The UV stabilized, polycarbonate lens can be removed without the use of tools to make bulb replacement a snap.
- AMECA certified to meet SAE J1318 Class 2 and conforms to CE requirements.
- Vacuum magnet mount includes a 15-ft straight cord with 12V lighter attachment.
- Reverse polarity and voltage transient protected.

Part No.	Description	Joules	volts	FPM
PR4242	dble/quad beacon	7/10	12-48V	80/65
PR4262	med profile dble/quad beacon	7/10	12-48V	80/65



15" Rotating Minibar, Permanent & Magnet Mount

- The rotating minibar (4.48" x 14.75" x 8.27") is a compact, single flash, 15" minibar that is available in either permanent or vacuum mount (rated to 65 MPH).
- It features a UV and heat resistant silicon belt with stainless steel bearings for smooth and quiet operation.
- Also incorporated into the efficient design are two 55-watt halogen bulbs that produce 480 flashes per minute.
- It meets SAE J845 Class 1 output.
- Vacuum mount includes a 15-ft straight cord with 12V lighter attachment for 12V plug.

Part No.	Description	volts	RPM	FPM
PR5211	15" minibar	12V	160	480
PR5211A	15" minibar vac mag	12V	160	480

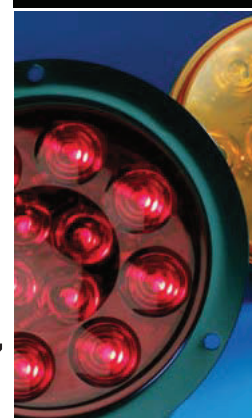


22" Rotating Minibar

- A high visibility warning light available at an economical price.
- An EM/RFI noise suppression helps reduce the sound of the heavy-duty, self-lubricating gear-drive rotator.
- The rugged aluminum base and polycarbonate lens houses two rotating 50-watt halogen bulbs with a fixed center mirror.
- Meets SAE J845 Class 1.

Part No.	Description	volts	RPM	FPM
DC10055	22" Rotating Minibar	12V	—	400

KATCO 
SERVICE PARTS INC.





8" Round Convex Mirror

- Convex 8" mirror is manufactured with a stainless steel housing.
- Equipped with a center mount ¼" adjustable ball stud for easy assembly.

Part No.	Description
DC8650	Convex Round Mirror



2" Rubber Grommet for Clearance Marker Lamps

- This round rubber grommet is manufactured to fit standard 2" LED and incandescent clearance marker lamps.
- New grommets restore shock protection, security and improve vehicle appearance.

Part No.	Description
PM146-18	2" Round Rubber Grommet



2½" Rubber Grommet for Clearance Marker Lamps

- This round rubber grommet is manufactured to fit standard 2½" LED and incandescent clearance marker lamps.
- New grommets restore shock protection, security and improve vehicle appearance.

Part No.	Description
PM142-18	2½" Round Rubber Grommet



4" Rubber Grommet for Stop, Tail, Turn Lamps

- This round rubber grommet is manufactured to fit standard 4" LED and incandescent stop, tail, turn lamps.
- New grommets restore shock protection, security and improve vehicle appearance.

Part No.	Description
PM426-18	4" Round Rubber Grommet



Oval Rubber Grommet

- Grommet is manufactured to fit standard oval LED and incandescent stop, tail, turn lamps.
- New grommets help restore shock protection, security and improve vehicle appearance.

Part No.	Description
PM421-18	Rubber Grommet for Oval Light





Thin-line Chrome Mounting Bracket

- Snap-in lamp design allows for quick installation.
- Mates with Thin Line LED clearance marker lamps
- Includes female pigtail with 6" lead wire.

Part No.	Description
PM154-10K	Mounting Bracket, chrome



Mini Rectangular Chrome Mounting Bracket

- Clearance marker lamp brackets.

Part No.	Description
PM150-102	Mini Chrome Mounting Bracket



Single Contact

- Pigtail wire assembly with terminal attached.
- Socket No. 3432, 3433, 3452, 3453, 3460, 3461, 3463, 3470, 3471.
- Lamp No. 63, 67, 81, 89, 93, 209, 1003, 1073, 1129, 1133, 1141, 1156.
- SMP: S-23; Wells: 201; Borg: PT5, Nieh: LS-102

Part No.	Description
700B	Single Contact



Double Contact

- Pigtail wire assembly with terminals attached.
- Socket Nos. 3422, 3430, 3434, 3435, 3436.
- Lamp Nos. 64, 68, 82, 88, 90, 94, 210, 1004, 1034, 1074, 1130, 1154, 1157, 1158, 1175.
- SMP: S-24; Well: 200; Borg: PT7, Nieh: LS-150.

Part No.	Description
701B	Double Contact



Injector Solenoid Connector

- EV1 style connector.
- Fits multi-port injectors GM 1711799 1993-86 (replaces GM 12085491).
- Bosch & Lucas Injectors on Chrysler, Ford products, AMC/Jeep, Datsun/Nissan, Porsche, Toyota, VW and Volvo.

Part No.	Description
DC73522	Injector Solenoid Connector

KATCO SERVICE PARTS INC.





Halogen Bulbs

- Halogen lights are one of the most widely used illumination devices for forward lighting in recent models for the transportation industry.
- They offer longer life (2 to 3 times as long as an incandescent bulb) and better efficiency (10% to 20% more efficient).
- These halogen lights are offered in two different styles, a single and dual filament.
- The single filament is designed specifically for either the high or low beam while the dual filament functions as both.

Part No.	Description
9005	Halogen Capsule, HI Beam
9006	Halogen Capsule, LO Beam
9007	Halogen Capsule, HI-LO Beam



Halogen- High/Low Beam

- For automotive head lamp applications.
- 65/45 Watt, 12 volts.
- Average life (hours):150/320.
- 1 per box.

Part No.	Description
9004	Halogen - High/Low Beam



Halogen Bulb

- For automotive, motorcycle and auxiliary lighting.
- 55 Watt, 12 volts.
- 12 volts average life (hours): 225.
- H3 bulb.
- 1 per box.

Part No.	Description
H3-55W	Halogen Bulb



Clear Auto Bulb - DC Index Bulb

- 12.8 volts, 2.10 amp.
- Filament shape C-6.
- Average life (hours): 600.
- 10 per box.

Part No.	Description
1157	Clear Auto Bulb - DC Index Bulb





Booster Cables

- Superior quality, tangle free and extremely flexible.
- 100% pure copper cable clamps are color-coded for easy identification.
- Fits top post and side post batteries.

Part No.	Length (ft.)	Gauge	Insul. Color	Clamp (amps)	Package
TL412	12	4	White/Black	400	Retail Box
TL416	16	4	White/Black	400	Retail Box
TL420	20	4	White/Black	400	Retail Box
WTL416	16	4	White/Black	500	Retail Box
WTL220	20	2	Red/Black	500	Retail Box

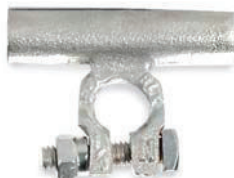
Copper Die Cast Battery Terminals

- Terminals can be crimped or soldered.
- All terminals can be crimped with crimper.
- Includes ½" bolts.
- Bolts and nuts shipped loose piece.



Straight Barrel

Part No.	Cable Size	Polarity	Part No.	Cable Size	Polarity
SBT6U	6 ga.	Pos. & Neg.	SBT2/0P	2/0 ga.	Pos.
SBT4U	4 ga.	Pos. & Neg.	SBT2/0N	2/0 ga.	Neg.
SBT1P	2-1 ga.	Pos.	SBT3/0P	3/0 ga.	Pos.
SBT1N	2-1 ga.	Neg.	SBT3/0N	3/0 ga.	Neg.
SBT1/0P	1/0 ga.	Pos.	SBT4/0P	4/0 ga.	Pos.
SBT1/0N	1/0 ga.	Neg.	SBT4/0N	4/0 ga.	Neg.



Parallel (Flag)

Part No.	Cable Size	Polarity	Part No.	Cable Size	Polarity
SBTF1/0P	1/0 ga.	Pos.	SBTF2/0P	2/0 ga.	Pos.
SBTF1/0N	1/0 ga.	Neg.	SBTF2/0N	2/0 ga.	Neg.



Left Angle

Part No.	Cable Size	Polarity	Part No.	Cable Size	Polarity
SBTL1/0P	1/0 ga.	Pos.	SBTL2/0P	2/0 ga.	Pos.
SBTL1/0N	1/0 ga.	Neg.	SBTL2/0N	2/0 ga.	Neg.



Right Angle

Part No.	Cable Size	Polarity	Part No.	Cable Size	Polarity
SBTR1/0P	1/0 ga.	Pos.	SBTR2/0P	2/0 ga.	Pos.
SBTR1/0N	1/0 ga.	Neg.	SBTR2/0N	2/0 ga.	Neg.

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Lead Battery Terminals

- Manufactured with a lead alloy composed of antimony that ensures the terminal will have the tensile strength and hardness to meet today's heavy electrical demand.
- Terminals are 25-50% more dense than competitive product.
- Bolts ($\frac{1}{2}$ ") and nuts included.



Straight		
Part No.	Cable Size	Type
BTSD2/0	1-4/0 gauge	Positive & Negative

Universal		
Part No.	Cable Size	Type
BTSDL	8-3/0 gauge	Positive & Negative

Truck Battery		
Part No.	Cable Size	Type
BTSD-3P/3N	1-3/0 gauge	Positive & Negative

Battery Bolts and Nuts

- Zinc plated square head bolts.



Part No.	Description	Size
BB	Shoulder Head Nut	$\frac{5}{16}$ " x #18 x $1\frac{1}{2}$ "
SMBA	Side Terminal Bolt	$\frac{3}{8}$ " x #16 x 1"
SMBA-HD	Side Terminal Accessory Power Connection	—
505N	Battery Terminal Fastener for top & side mount batteries	—

Insulators

- Battery terminal insulators provide added protection against corrosion and harmful chemicals on battery and alternator cables.
- Improves appearance and provides prolonged cable life.



Testing Clip Insulators		
Part No.	Amp	Color
26R	25 amp	Red
26B	25 amp	Black



Alligator Clip Insulators	
Part No.	Description
62R	red, Insulator only for alligator clip
62B	black, Insulator only for alligator clip





Standard Bare Copper Lugs

- Crimp or solder.

$\frac{1}{4}$ " Stud (.250) Clearance (.336)

Part No.	Amp	Cable Size
BCL414	70	6/4 gauge
BCL214	90	2 gauge
BCL114	125	1 gauge
BCL1014	150	1/0 gauge
BCL2014	175	2/0 gauge

$\frac{5}{16}$ " Stud (.313) Clearance (.336)

Part No.	Amp	Cable Size
BCL456	70	6/4 gauge
BCL256	90	2 gauge
BCL156	125	1 gauge
BCL1056	150	1/0 gauge
BCL2056	175	2/0 gauge
BCL3056	225	3/0 gauge
BCL4056	225	4/0 gauge

$\frac{3}{8}$ " Stud (.375) Clearance (.405)

Part No.	Amp	Cable Size
BCL438	70	6/4 gauge
BCL238	90	2 gauge
BCL138	125	1 gauge
BCL1038	150	1/0 gauge
BCL2038	175	2/0 gauge
BCL3038	225	3/0 gauge
BCL4038	225	4/0 gauge

$\frac{1}{2}$ " Stud (.500) Clearance (.525)

Part No.	Amp	Cable Size
BCL212	90	2 gauge
BCL112	125	1 gauge
BCL1012	150	1/0 gauge
BCL2012	175	2/0 gauge
BCL3012	225	3/0 gauge
BCL4012	225	4/0 gauge



Heavy-duty Copper Lugs

- A premium tinned copper lug with maximum performance.
- A heavy-duty lug that delivers maximum voltage when needed.
- Rated to 600 Volts.
- Length: $2\frac{3}{16}$ ".

$\frac{5}{16}$ " Stud (.313) Clearance (.336)

Part No.	Cable Size	Color Code
HDL456	4 ga.	Grey
HDL256	2 ga.	Green
HDL156	1 ga.	Pink

$\frac{1}{2}$ " Stud (.500) Clearance (.525)

Part No.	Cable Size	Color Code
HDL112	1 ga.	Pink
HDL1012	1/0 ga.	Black
HDL2012	2/0 ga.	Orange
HDL3012	3/0 ga.	Purple
HDL4012	4/0 ga.	Yellow

$\frac{3}{8}$ " Stud (.375) Clearance (.405)

Part No.	Cable Size	Color Code
HDL438	4 ga.	Grey
HDL238	2 ga.	Green
HDL138	1 ga.	Pink
HDL1038	1/0 ga.	Black
HDL2038	2/0 ga.	Orange
HDL3038	3/0 ga.	Purple
HDL4038	4/0 ga.	Yellow

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Butt Connectors

- Use for standard cable crimp connectors.
- Manufactured from copper alloy with tin plating.

Part No.	Gauge	Style	Stock
BCL8	8 ga.	Brazed Barrel	.050
BCL6	6 ga.	Brazed Barrel	.050
BCL4	4 ga.	Brazed Barrel	.075
G372	2 ga.	Solid Barrel	.075
G372	1 ga.	Solid Barrel	.030
H383	1/0 ga.	Solid Barrel	.030
J388	2/0 ga.	Solid Barrel	.038
K393	3/0 ga.	Solid Barrel	.050



Battery Terminal Solder Slugs

- A fast and economical method for attaching a battery terminal to a cable.
- Rough sealed connection for optimum performance.
- Slugs are color-coded for gauge to industry standards.



HOW TO USE:

- 1.) Strip cable so the exposed copper reaches the battery terminal bottom.
- 2.) Apply several drops of flux to the exposed copper where the battery cable has been stripped back.
- 3.) Place the proper size slug in the battery terminal & secure terminal in vice.
- 4.) Heat the base of the battery terminal with slug inside using a propane torch or similar tool. As the battery terminal is heated, apply gentle downward pressure on the cable. Allow time for the connection to cool.
- 5.) Protective clothing and eye wear should be worn at all times.

Part No.	Slug Size	Color	Part No.	Slug Size	Color
ELA4	4 gauge	Grey	ELA10	1/0 gauge	Black
ELA2	2 gauge	Green	ELA20	2/0 gauge	Orange
ELA1	1 gauge	Pink	ELA30	3/0 gauge	Purple



Rosin Core Solder

- Offers excellent wetting action and the flux is completely non-corrosive.
- Flux is electrically non-conductive, excellent for electrical/electronic work.
- Qualified products listed under specification QQ-S-571 Type Wrap.

Part No.	Tin/Lead	Unit Spool (lb.)	Diameter	Gauge
40/60RC	40/60	1	.093"	13





Dual Power Cable Links™

- Available in 50, 175 and 350 amp ratings for use to 600 volts continuous AC or DC operation.
- Mechanical keys molded into connectors of the same color only will mate.
- Different color housings may be selected to identify other voltages, thus preventing the mismatching of the power supply to the electrical output.
- The single piece housing and modular construction provide industrial quality and durability with minimum inventory.
- Spring-loaded, silver plated, contoured contacts have a self-wiping cleaning action which ensures greater conductivity and longer life.
- Housing does not include connector; pieces sold separately.



Two (2) housings (same color) and four (4) contacts required for complete connection.

50 amp Housing

Part No.	Description	Housing Color
AN134	Housing with Spring	Grey

175 amp Housing

Part No.	Description	Housing Color
AN130A	Housing with Spring	Grey
AN212	Housing with Spring	Blue
AN251	Housing with Spring	Red

175 amp Connector

Part No.	Wire Size
AN199	1/0 gauge

350 amp Housing

Part No.	Description	Housing Color
AN175	Housing with Spring	Red

ASSEMBLY INSTRUCTIONS

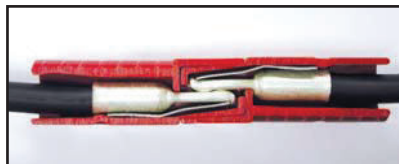


TABLE A

Connector Series	Wire Strip Length (in.)
50	5/16"
175	1 1/8"
350	1 3/8"

Two Dual Power Cable Links™ with single-piece housings. For all models: 50, 175 and 350 amps.

For installation in accordance with national and local electrical codes.

Assemble contacts to the cables according to the equipment manufacturer's assembly instructions. The following instructions are supplied as a reference.

1. Strip cable to dimensions in Table A.
2. Crimp or solder contact to cable. Note: Soldering recommended for cables with solid or minimal conductor stranding (ex. THHN type wire).
3. Observing proper polarity, place contact in housing with notched side of tongue next to spring.
4. Push contact and cable into housing until snaps over end of spring; tug slightly to make sure contact is locked into place.

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Standard 500 Amp Battery Clamp

- 500 amp battery clamp with coated handles.
- Hardware included.

Part No.	Description	Package
BH600R	Red Handled Battery Clamp	bulk
BH600B	Black Handled Battery Clamp	bulk



Pigmy Clip

- 50 amp clip.
- 3" long with 1 1/8" jaw spread.

Part No.	Description	Package
46R	Red Pigmy Clip	bulk
46B	Black Pigmy Clip	bulk



Alligator Clip

- 10 amp steel clip.
- 1 1/8" long with 1/2" jaw spread.

Part No.	Description	Package
605	Alligator Clip	bulk



Testing Clips

- Designed specifically for battery and testing equipment applications, 10-50 amp.
- Available in versatile sizes.

Part No.	Description	Style	Amp
24	Steel-2 7/32" long, 3/4" jaw spread	Positive	25



Battery Brush

- Remove rust and corrosion from posts and terminals with this plastic brush.

Part No.	Description
DC990010	Battery Brush