

## Selecting a Switch

There are three important features to consider when selecting a switch:

- 1. Contacts** - e.g. single pole, double throw.
- 2. Ratings** - maximum voltage and current.
- 3. Method of Operation** - toggle, slide, key, etc.

## Glossary of Terms for Switch Contacts

**S.P.S.T.** - Single Pole, Single Throw.

**S.P.D.T.** - Single Pole, Double Throw.

**D.P.S.T.** - Double Pole, Single Throw.

**D.P.D.T.** - Double Pole, Double Throw.

**Pole** - number of switch contact sets.

**Throw** - number of conducting positions, single or double.

**Way** - number of conducting positions, three or more.

**Momentary** - switch returns to its normal position when released.

**Open** - off position, contacts not conducting.

**Closed** - on position, contacts conducting, there may be several on positions.

**For example:** the simplest on-off switch has one set of contacts (single pole) and one switching position which conducts (single throw). The switch mechanism has two positions: open (off) and closed (on), but it is called 'single throw' because only one position conducts.

## Switch Contact Ratings

Switch contacts are rated with a maximum voltage and current, and there may be different ratings for AC and DC. The AC values are higher because the current falls to zero many times each second and an arc is less likely to form across the switch contacts.

*This information is courtesy of [www.ElectronicsClub.com](http://www.ElectronicsClub.com).*

## Switch Specifications

### S.P.S.T. On/Off

**Has two positions:** Closed (on) and open (off). Only closed (on) position can power the load.



### S.P.D.T. On/On

Only one of the loads can be powered at a time. Moves from one contact to the other without a center position.



### S.P.D.T. On/Off/On

Only one of the loads can be powered at a time. Has off as the center position.



### D.P.S.T. On/Off

Both load terminals can be powered at the same time. They are independent of each other and could be of different voltages.



### D.P.D.T. On/On

Functions like two separate S.P.D.T. switches operated by the same actuator. Two loads can be powered at a time. Moves from one contact to the other without a center position.



### D.P.D.T. On/Off/On

Functions like two separate S.P.D.T. switches operated by the same actuator. Two loads can be powered at a time. Has off as the center position.



**Illuminated Toggles (S.P.S.T 20A @ 12 Volt)**

- Fits 1/2" hole. • Fits 2650E & 2950F Panel Mounts.

Part#	Description
2612J	Red, On/Off, 3 terminals, .250 Tabs
2615J	Green, On/Off, 3 terminals, .250 Tabs
2616J	Blue, On/Off, 3 terminals, .250 Tabs
2617J	Amber, On/Off, 3 terminals, .250 Tabs
2620F	Black, On/Off/On, S.P.D.T. (non-illum), 3 terminals, .250 Tabs
2630F	Black, Mom.On/Off (non-illum), 2 terminals, .250 Tabs
2640H	Black, On/Off (non-illum), 2 terminals, .250 Tabs

Mom. = momentary (see glossary on opposite page)

**Illuminated Duckbill Switches (S.P.S.T 20A @ 12 Volt)**

- Fits 1/2" hole. • Fits 2650E & 2950F Panel Mounts.

Part#	Description
2622J	Red, On/Off, 3 terminals, .250 Tabs
2625J	Green, On/Off, 3 terminals, .250 Tabs
2626J	Blue, On/Off, 3 terminals, .250 Tabs
2627J	Amber, On/Off, 3 terminals, .250 Tabs
2610H	Black, On/Off (non-illum), 2 terminals, .250 Tabs

**Heavy-Duty Toggles (12 Volt)**

- Fits 1/2" hole. • Fits 2650E & 2950F Panel Mounts.

Part#	Poles	Rated	Description
2642F	S.P.S.T.	25A	On/Off, 2 screw terminals
2643F	S.P.D.T.	25A	On/On, marine, 3 screw terminals
2644F	S.P.D.T.	25A	On/Off/On, marine, 3 screw terminals
2645F	D.P.S.T.	30A	On/Off, 4 screw terminals
2646F	D.P.D.T.	25A	On/On, 6 screw terminals
2647F	D.P.D.T.	30A	On/Off/On, 6 screw terminals
2648F	D.P.D.T.	30A	Mom.On/Off/Mom.On, 6 screw terminals
2649F	S.P.S.T.	20A	On/Off, 1-1/4" long handle, 2 screw terminals

Mom. = momentary (see glossary on opposite page)

**Miniature Toggles (12 Volt)**

- Fits 1/2" hole. • Fits 2650E & 2950F Panel Mounts.

Part#	Poles	Rated	Description
2641-1F	S.P.S.T.	15A	On/Off, 2 screw terminals
2644-1F	S.P.D.T.	15A	On/Off/On, 3 screw terminals

**Euro Style Push-Pull Switch (12 Volt)**

- Fits 1/2" hole. • Fits 2650E & 2950F Panel Mounts.

Part#	Rated	Description
2910F	16A	Push/Pull, On/Off

**Heavy-Duty (All-Metal) Toggles (12 Volt)**

Part#	Poles	Rated	Description
2913F	S.P.S.T.	50A	On/Off, 2 screw terminals
2918F	S.P.D.T.	50A	On/Off/On, 3 screw terminals
2653J	S.P.S.T.	20A	On/Off 2, screw terminals
2919F	S.P.D.T.	50A	Mom.On/Off/Mom.On, 3 screw terminals

**Bakelite Toggles (15A @ 12 Volt)**

- Fits 1/2" hole. • Fits 2650E & 2950F Panel Mounts.

Part#	Poles	Description
2641F	S.P.S.T.	On/Off, 2 screw terminals
2941F	S.P.S.T.	On/Off, Pre-Wired with (2) 5.5" leads

**All Weather Toggles (25A @ 12 Volt) (15A @ 24 Volt)**

- Fits 1/2" hole. • Fits 2650E & 2950F Panel Mounts.

Part#	Poles	Description
2654F	S.P.S.T.	On/Off, 2 terminals, .250 Tabs
2655F	S.P.S.T.	Mom.On/Off, 2 terminals, .250 Tabs
2656F	D.P.S.T.	On/Off, 4 terminals, .250 Tabs
2657F	D.P.D.T.	On/On, 6 terminals, .250 Tabs
2658F	D.P.D.T.	Mom.On/Off/Mom.On, 6 terminals, .250 Tabs

Mom. = momentary (see glossary on opposite page)

**Illuminated Rockers (S.P.S.T. 12 Volt)**

- Fits 7/16" x 1-1/8" slot. • Fits 2651E & 2953F Panel Mounts.

Part#	Rated	Description
2602J	20A	Red, On/Off, 3 terminals, .250 Tabs
2605J	20A	Green, On/Off, 3 terminals, .250 Tabs
2606J	20A	Blue, On/Off, 3 terminals, .250 Tabs
2607J	20A	Amber, On/Off, 3 terminals, .250 Tabs
2600J	16A	Black, On/Off (non-illum), 2 terminals, .250 Tabs

# Switches

## Red LED Rockers (S.P.S.T. 12 Volts)



Part#	Rated	Description
2609F	16A	Black standard, On/Off, fits 7/8" x 1-1/2" slot, 4 terminals, .250 Tabs
2618F	15A	Black miniature, On/Off, fits 1/2" x 3/4" slot, 3 terminals, .187 Tabs

## Illuminated Jumbo Rockers (S.P.S.T. 16A @ 12 Volt)

- Fits 1/2" hole. • Fits 2650E & 2950F Panel Mounts.



Part#	Description
2902F	Red, On/Off, 3 terminals, .250 Tabs
2905F	Green, On/Off, 3 terminals, .250 Tabs
2906F	Blue, On/Off, 3 terminals, .250 Tabs
2907F	Amber, On/Off, 3 terminals, .250 Tabs
2900F	Black (non-illum), On/Off, 2 terminals, .250 Tabs

## Light & Rocker Combinations (S.P.S.T. 16A @ 12 Volt)



Part#	Description
2603F	Amber light & On/Off rocker, 4 terminals, .250 Tabs
2604F	Red light & On/Off rocker, 4 terminals, .250 Tabs

## Illuminated Push-Pull Switches (S.P.S.T. 15A @ 12 Volt)

- Fits 1/2" hole. • Fits 2650E & 2950F Panel Mounts.



Part#	Description
2670F	Red, On/Off, 2 terminals, .250 Tabs
2965F	Green, On/Off, 2 terminals, .250 Tabs
2966F	Blue, On/Off, 2 terminals, .250 Tabs
2967F	Amber, On/Off, 2 terminals, .250 Tabs

## Horn Buttons (S.P.S.T. 15A @ 12 Volt)



Part#	Description
2689F	Flush mount
2689-1F	Column mount includes bracket & 2 screws

## Warning Lights with Lucar Terminals (16A @ 12 Volt)

- Fits 1/2" hole. • Fits 2650E & 2950F Panel Mounts.



Part#	Description
2632H	Red, 2 terminals, .250 Tabs
2635H	Green, 2 terminals, .250 Tabs
2636H	Blue, 2 terminals, .250 Tabs
2637H	Amber, 2 terminals, .250 Tabs

## Warning Lights with Leads (16A @ 12 Volt)

- Fits 2650E & 2950F Panel Mounts.



Part#	Description
2672F	Red, fits 1/2" hole, (2) 6" leads
2673F	Green, fits 1/2" hole, (2) 6" leads
2676F	Blue, fits 1/2" hole, (2) 6" leads
2677F	Amber, fits 1/2" hole, (2) 6" leads
2633F	Red, fits 1/4" hole, (2) 9" leads

## Heavy-Duty Switches



Part#	Description
2690F	<b>Push-Pull Switch.</b> 16A @ 12V On/Off (2 position) universal push-pull switch with 3/8" mounting stem, fits 1/2" panel mount, 2 terminals, .320" Tabs.



2691F	<b>Push-Pull Switch.</b> 16A @ 12V Off/On/On (3 position) universal fused push-pull switch. Ideal for headlamp operation, 3/8" mounting stem, fits 1/2" panel mount. Include glass fuse, 5 terminals, .320" Tabs.
-------	---



2694F	<b>Push-Pull Switch.</b> 75A @ 6-28V, On/Off (2 position), die cast with chrome plated knob, ideal as truck & tractor (industrial) switch. 3/8" mounting stem, fits 1/2" panel mount. 2 screw terminals, .380 Tabs
-------	--



2695F	<b>Ignition Switch.</b> 4 screw terminals. Die-cast housing and molded base. 4 position lock tumbler: park Off/On starter. Fits 3/4" to 1" panel hole. Includes (2) detachable keys & hardware for mounting.
-------	--



2699F	<b>Battery Isolator Switch.</b> 100A @ 12V continuous 500A @ 12V momentary (5 sec.). Single circuit battery master switch. Includes (2) detachable keys for anti-theft protection. 3/8" studs & 3/16" mounting holes.
-------	---

## Starter Switches



2680F	10A @ 12V - Momentary On. All brass with nickel plate facing. 5/8" mounting stem, fits 1" panel mount. 2 screw terminals, .320 Tabs.
-------	--



2682F	15A @ 12V - Momentary On. All brass with neoprene push button. 5/8" mounting stem, fits 1" panel mount. 2 screw terminals, .320 Tabs.
-------	---



2681F	60A @ 12V-40A @ 24V - Momentary On. Die cast chrome plated. Extra heavy-duty dust and moisture proof neoprene cap. 5/8" mounting stem, fits 1" panel mount. 2 screw terminals.
-------	--



2683F	10A @ 12V Momentary On/Off red push starter switch with 2 terminals, .250" Tabs. Fits 1/2" hole and 2650E & 2950F panel mounts.
-------	---



2684F	16A @ 12V - Momentary On. Euro style push button. 7/8" mounting stem, fits 1" panel mount. 2 screw terminals.
-------	---

**Switch/Panel Combinations**

Part#	Description
2980F	20A @ 12V. S.P.S.T. On/Off illuminated red rocker mounted on panel 2651E.
2982F	20A @ 12V. S.P.S.T. On/Off illuminated red duckbill mounted on panel 2650E.
2984F	20A @ 12V. S.P.S.T. On/Off black duckbill and red warning light mounted on panel 2950F.
2986F	20A @ 12V. S.P.S.T. On/Off illuminated red and blue duckbills, mounted on panel 2950F.
2987F	Three-hole chrome ignition start panel. Includes (mounted): (1) Toggle switch. S.P.S.T. On/Off, 2 terminals, .250 Tabs. (1) 2652F Red toggle switch cover. (1) 2632H Red warning light. (1) 2681F Starter switch.
2988F	Five-hole chrome ignition start panel. Includes (mounted): (2) Toggle switch. S.P.S.T. On/Off, 2 terminals, .250 Tabs. (1) 2652F Red toggle switch cover. (1) 2632H Red warning light. (1) 2635H Green warning light. (1) 2681F Starter switch.

**LED Toggle (S.P.S.T. 15A @ 12 Volt)**

• Fits 1/2" hole. • Fits 2650E & 2950F Panel Mounts.

Part#	Description
2653-1J	Red LED, On/Off, 3 terminals, .250 Tabs

**Oval Illuminated Rockers (S.P.S.T. 16A @ 12 Volt)**

• Fits 1/2" hole. • Fits 2650E & 2950F Panel Mounts.

Part#	Description
2702-2J	Red, On/Off, 3 terminals, .250 Tabs
2702-4J	Amber, On/Off, 3 terminals, .250 Tabs
2702-5J	Green, On/Off, 3 terminals, .250 Tabs

**Oval LED Rockers (S.P.S.T. 16A @ 12 Volt)**

• Fits 1/2" hole. • Fits 2650E & 2950F Panel Mounts.

Part#	Description
2703-2J	Red, On/Off, 3 terminals, .250 Tabs
2703-4J	Amber, On/Off, 3 terminals, .250 Tabs
2703-5J	Green, On/Off, 3 terminals, .250 Tabs

**Cigarette Lighter Power Adapter**

Part#	Description	Quantity
2675H	12 Volt. Includes 2 terminals to complete connection.	1 Set

**Round Illuminated Rockers (S.P.S.T. 16A @ 12 Volt)**

• Fits 5/8" hole.

Part#	Description
2700-2J	Red, On/Off, 3 terminals, .250 Tabs
2700-4J	Amber, On/Off, 3 terminals, .250 Tabs
2700-5J	Green, On/Off, 3 terminals, .250 Tabs
2700-6J	Blue, On/Off, 3 terminals, .250 Tabs
2700J	Black, (non-illum), On/Off, 2 terminals, .250 Tabs

**Round LED Rockers (S.P.S.T. 16A @ 12 Volt)**

• Fits 5/8" hole.

Part#	Description
2701-2J	Red, On/Off, 3 terminals, .187 Tabs
2701-4J	Amber, On/Off, 3 terminals, .187 Tabs
2701-5J	Green, On/Off, 3 terminals, .187 Tabs

**Toggle Switch Covers (Fits standard 1/2" to 3/4" stem)**

- Aircraft style switch position indication cover, prevents accidental switch operation.
- When cover is up power is on.
- When cover is down power is off.

Part#	Description
2652F	Red
2652-5F	Green
2652-6F	Blue
2652-7F	Yellow

**Toggle Switch Boot (Fits standard 1/2" to 3/4" stem)**

Part#	Description
2659F	Weatherproof switch boot for dust and moisture protection. Install over handle.

**Round Panel Mounts (1/2" hole)**

Part#	Description
2650E	1 - Round hole
2950F	2 - Round holes

**Rectangular Panel Mounts (7/16" x 1-1/8" slot)**

Part#	Description
2651E	1 - Slot
2953F	2 - Slots

# Fuses & Accessories

## AGC Glass Fuses

- Use with 2463F, 2464F, 2465F & 2524F fuse holders - see pg. 89
- Use with 1212H fuse power tap - see pg. 90

Automotive Glass Cartridge (AGC) Fuse is fast-acting for maximum protection. AGC fuses are all 1/4" in diameter and 1-1/4" in length the amperage rating is stamped on the iron end cap to ensure accurate fuse replacement. Wide amperage and voltage ratings allow versatility of protecting electronic circuits. This barrel style, glass tube fuse is easy to replace and standard for automotive (domestic or foreign), electronic & marine applications. Meets or exceeds S.A.E. & O.E.M. standards.

Part#	Pcs	Type	Color	Rating
2403E	2	AGC	Iron-Head	3 Amp
2403	25			
2406F	2	AGC	Iron-Head	5 Amp
2406	25			
2408F	2	AGC	Iron-Head	7.5 Amp
2408	25			
2409E	2	AGC	Iron-Head	10 Amp
2409	25			
2410E	2	AGC	Iron-Head	15 Amp
2410	25			
2411E	2	AGC	Iron-Head	20 Amp
2411	25			
2412E	2	AGC	Iron-Head	25 Amp
2412	25			
2413F	2	AGC	Iron-Head	30 Amp
2413	25			



## SFE Glass Fuses

- Use with 2463F, 2464F, 2465F & 2524F fuse holders - see pg. 89
- Use with 1212H fuse power tap - see pg. 90

SFE Glass Fuse is fast-acting for maximum protection. SFE Glass fuses are designed to specifications set by the Society of Fuse Engineers. Voltage rating is 32 Volts. All are 1/4" in diameter, but vary in length according to the ampere rating. Amperage rating is stamped on iron end cap to ensure accurate fuse replacement. This barrel style, glass tube fuse is easy to replace and standard for automotive (domestic or foreign) and electronic & marine applications. Meets or exceeds S.A.E. & O.E.M. standards.

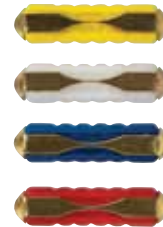
Part#	Pcs	Type	Color	Rating
2418E	2	SFE	Iron-Head	9 Amp
2418	25			
2419E	2	SFE	Iron-Head	14 Amp
2419	25			
2420E	2	SFE	Iron-Head	20 Amp
2420	25			
2421F	2	SFE	Iron-Head	30 Amp
2421	25			



## GBC Bakelite Fuses

GBC Bakelite/Ceramic Fuses have the advantage of a higher breaking capacity than glass, facilitating their use in circuits with higher current and voltage. The high breaking capacity helps to protect the surrounding circuit from molten material. Consisting of a heat resistant body, the fuse element stretches over the exterior of the body from end to end. Spring insulates the body which varies in color to assist in proper replacement. These Bosch type fuses (also known as torpedo type fuses) are used in older automobiles (often European). The physical dimension of the GBC fuse is 1/4" width and 31/32" length with conical ends. Voltage rating is 32 Volts. Meets or exceeds S.A.E. & O.E.M. standards.

Part#	Pcs	Type	Color	Rating
2424F	2	GBC	Yellow	5 Amp
2424	25			
2425F	2	GBC	White	8 Amp
2425	25			
2427F	2	GBC	Red	16 Amp
2427	25			
2428F	2	GBC	Blue	25 Amp
2428	25			

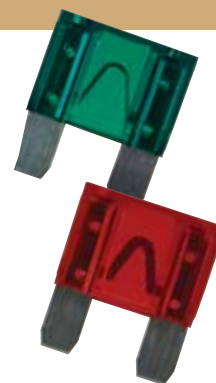


## Maxi Fuses

- Use with 2461F fuse holder - see pg. 89

Maxi-Fuse is a fast-acting blade type fuse, standard for foreign and domestic vehicle circuit protection. The maxi-fuse is designed to provide predictable time delay and low heat dissipation. Plastic housing is color-coded for easy identification of fuse ratings. Temperature rating of 105°C (221°F). Voltage rating of 32 Volts. Meets or exceeds S.A.E. & O.E.M. standards.

Part#	Pcs	Color	Rating
20310F	1	Yellow	20 Amp
20310J	10		
20311F	1	Green	30 Amp
20311J	10		
20312F	1	Orange	40 Amp
20312J	10		
20313F	1	Red	50 Amp
20313J	10		
20314F	1	Blue	60 Amp
20314J	10		
20315F	1	Clear	80 Amp
20315J	10		



**Call for discounted price on bulk orders!**

### ATC/ATO Fuses

- Use with 2528H, 2529H, 1232H, 2470H & 20325F fuse holders - see pg. 90
- Use with 1208H fuse power tap - see pg. 90

ATC/ATO Fuse is a fast-acting blade fuse, standard for vehicle circuit protection. Developed for the automotive industry, the ATC/ATO fuse has become the original equipment circuit protection standard for foreign and domestic automobiles and trucks. Readily identifiable and easily replaced, this fuse can be specified for a variety of low voltage electronic applications. Plastic housing is color-coded for easy identification of fuse ratings. Temperature rating of 105°C (221°F). Voltage rating of 32 Volts. Meets or exceeds S.A.E. & O.E.M. standards.

Part#	Pcs	Type	Color	Rating
2430F	2	ATC/ATO	Purple	3 Amp
2430	25			
2431E	2	ATC/ATO	Orange	5 Amp
2431	25			
2432E	2	ATC/ATO	Brown	7.5 Amp
2432	25			
2433E	2	ATC/ATO	Red	10 Amp
2433	25			
2434E	2	ATC/ATO	Blue	15 Amp
2434	25			
2435E	2	ATC/ATO	Yellow	20 Amp
2435	25			
2436F	2	ATC/ATO	Clear	25 Amp
2436	25			
2437E	2	ATC/ATO	Green	30 Amp
2437	25			

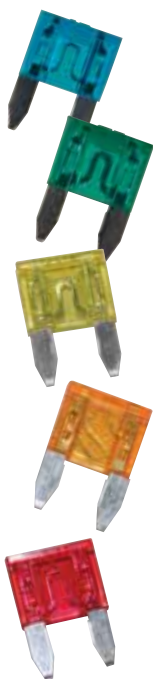


### Mini Fuses

- Use with 2460H fuse holder - see pg. 89
- Use with 1210H fuse power tap - see pg. 90

Mini-Fuse is a fast-acting blade type fuse, standard for foreign and domestic vehicle circuit protection. Its miniature design meets the need for more circuits to be protected while utilizing less space and its ability to cope with high temperatures in adverse environments make the Mini-Fuse the recommended choice for protection. Plastic housing is color-coded for easy identification of fuse ratings. Temperature rating of 105°C (221°F). Voltage rating of 32 Volts. Meets or exceeds S.A.E. & O.E.M. standards.

Part#	Pcs	Color	Rating
20300F	2	Gray	2 Amp
20300	25		
20301F	2	Purple	3 Amp
20301	25		
20302F	2	Pink	4 Amp
20302	25		
20303F	2	Orange	5 Amp
20303	25		
20304F	2	Brown	7.5 Amp
20304	25		
20305F	2	Red	10 Amp
20305	25		
20306F	2	Blue	15 Amp
20306	25		
20307F	2	Yellow	20 Amp
20307	25		
20308F	2	Clear	25 Amp
20308	25		
20309F	2	Green	30 Amp
20309	25		



To order 100 Pc. Packs put 'C' after the part number - for example 20300C

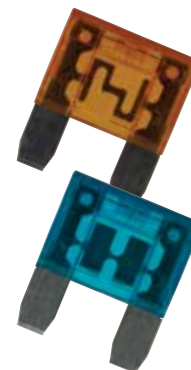
### Smart Glow Fuses

Day or Night when a fuse blows Smart Glow Fuses indicate immediately which fuse needs replacing. "They Glow when They Blow." Smart Glow fuses are innovative automotive style fuses (Maxi, Mini & ATC/ATO) that feature an indicator light located at the top of the fuse that glows when the fuse is blown, saving time to troubleshoot an open circuit. Snaps into place without the use of tools. Easy identification of blown fuses in hard to reach locations. Color-coded fuses instantly let you know the right amperage of the fuse to be replaced. Temperature rating of 105°C (221°F). Voltage rating of 32 Volts. Meets or exceeds S.A.E. & O.E.M. standards.

### Smart Glow - Maxi Fuses

- Use with 2461F fuse holder - see pg. 89

Part#	Pcs	Color	Rating
30-1020	1	Yellow	20 Amp
30-1020J	10		
30-1030	1	Green	30 Amp
30-1030J	10		
30-1040	1	Orange	40 Amp
30-1040J	10		
30-1050	1	Red	50 Amp
30-1050J	10		
30-1060	1	Blue	60 Amp
30-1060J	10		
30-1070	1	Brown	70 Amp
30-1070J	10		
30-1080	1	Natural	80 Amp
30-1080J	10		
30-1100	1	Gray	100 Amp
30-1100J	10		



### Smart Glow - ATC/ATO Fuses

- Use with 2528H, 2529H, 1232H, 2470H & 20325F fuse holders - see pg. 90

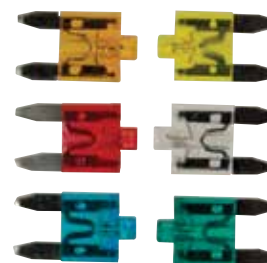
Part#	Pcs	Color	Rating
10-0003	2	Purple	3 Amp
10-0003F	25		
10-1000	2	Orange	5 Amp
10-1000F	25		
10-0007	2	Brown	7.5 Amp
10-0007F	25		
10-1001	2	Red	10 Amp
10-1001F	25		
10-1002	2	Blue	15 Amp
10-1002F	25		
10-1003	2	Yellow	20 Amp
10-1003F	25		
10-1004	2	Clear	25 Amp
10-1004F	25		
10-1005	2	Green	30 Amp
10-1005F	25		



### Smart Glow - Mini Fuses

- Use with 2460H fuse holder - see pg. 89

Part#	Pcs	Color	Rating
11-1000	2	Orange	5 Amp
11-1000F	25		
11-0007	2	Brown	7.5 Amp
11-0007F	25		
11-1001	2	Red	10 Amp
11-1001F	25		
11-1002	2	Blue	15 Amp
11-1002F	25		
11-1003	2	Yellow	20 Amp
11-1003F	25		
11-1004	2	Clear	25 Amp
11-1004F	25		
11-1005	2	Green	30 Amp
11-1005F	25		



# Fuses & Accessories

## PAL Fuses

The PAL fuse series is used primarily in foreign and domestic vehicle models to provide wiring harness protection. This fuse is a direct factory replacement for fusible link. Currently available in three styles: PAL Bent Male (bolts into fuse block), PAL Straight Male & PAL Female Terminations. Equipped with visual window to inspect for blown fuse. Color-coded for easy identification of fuse ratings. Voltage rating of 32 Volts.

## PAL Female Fuses

Part#	Pcs	Color	Rating
20326F	1	White	20 Amp
20326J	10		
20316F	1	Pink	30 Amp
20316J	10		
20317F	1	Green	40 Amp
20317J	10		
20318F	1	Yellow	60 Amp
20318J	10		



## PAL Straight Male Fuses

Part#	Pcs	Color	Rating
20319F	1	Pink	30 Amp
20319J	10		
20320F	1	Yellow	60 Amp
20320J	10		
20321F	1	Black	80 Amp
20321J	10		



## PAL Bent Male Fuses

Part#	Pcs	Color	Rating
20322F	1	Pink	30 Amp
20322J	10		
20323F	1	Green	40 Amp
20323J	10		
20324F	1	Brown	70 Amp
20324J	10		



## Mini In-line Fuse Holder

Part#	Pc	Gauge	Description
2460H	1	12	1-30 Amp Watertight mini fuse holder with protective cap. 11" 12 AWG orange wire.



## Maxi In-line Fuse Holder

Part#	Pc	Gauge	Description
2461F	1	10	1-80 Amp Watertight maxi fuse holder with protective cap. 10" 10 AWG red wire.



## Glass In-line Fuse Holders

### Part# Pcs Gauge Description

2463F 1 10 1-30 Amp AGC or SFE glass fuse holder. 6.5" 10 AWG black wire.



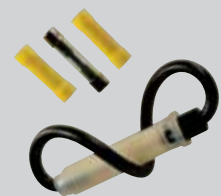
2464F 1 12 1-30 Amp AGC or SFE glass fuse holder. 6.5" 12 AWG green wire.



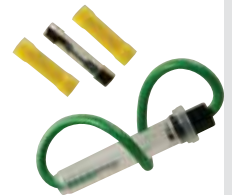
2465F 2 16 1-30 Amp AGC or SFE glass fuse holder. 6" 16 AWG black wire.



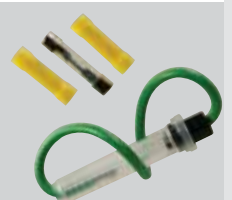
2468F 1 Set 10 1-30 Amp AGC or SFE glass fuse holder with (1) 30 Amp AGC fuse & (2) 12-10 AWG vinyl butt connectors. 6.5" 10 AWG black wire.



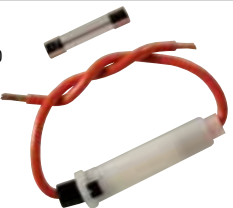
2466F 1 Set 12 1-30 Amp AGC or SFE glass fuse holder with (1) 15 Amp AGC fuse & (2) 12-10 AWG vinyl butt connectors. 6.5" 12 AWG green wire.



2467F 1 Set 12 1-30 Amp AGC or SFE glass fuse holder with (1) 20 Amp AGC fuse & (2) 12-10 AWG vinyl butt connectors. 6.5" 12 AWG green wire.



2527F 1 Set 12 1-30 Amp AGC or SFE glass fuse holder with (1) 30 Amp AGC fuse. 7" 12 AWG orange wire.



2526H 1 Set 16 1-30 Amp AGC or SFE glass fuse holder with (1) 14 Amp SFE fuse. 6" 16 AWG black wire.



2524F 1 Set 18-12 1-30 Amp AGC or SFE glass fuse holder with (2) non-insulated crimp connectors. Accepts between 18-12 AWG wire.



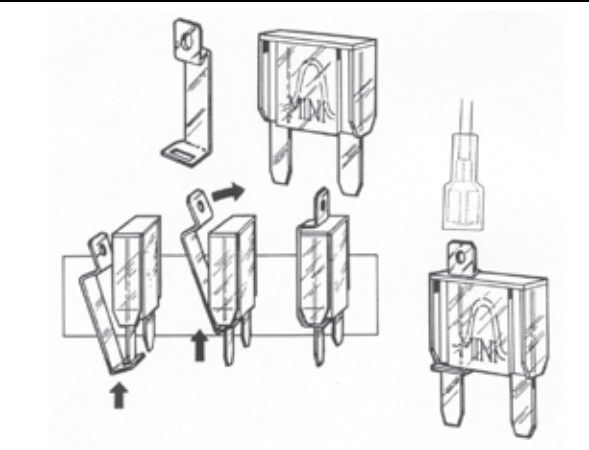
**ATC/ATO In-line Fuse Holders**

Part#	Pcs	Gauge	Description
1232H	2	18-14	1-20 Amp ATC/ATO self-stripping fuse holder. Accepts between 18-14 AWG wire.
2528H	1	16	1-20 Amp ATC/ATO fuse holder. 7" 16 AWG black wire.
2529H	1	12	1-30 Amp ATC/ATO fuse holder. 7" 12 AWG orange wire.
2470H	1	12	1-30 Amp Watertight ATC/ATO fuse holder with protective cap. 10" 12 AWG red wire.
20325F	1	12	1-30 Amp H.D. Waterproof ATC/ATO fuse holder with protective/latching cap & silicone rubber seal. (2) 8" 12 AWG orange GXL wire leads.

**Fuse Adapters**

Part#	Pcs
<b>ATC/ATO Fuse Power Tap - .250 Tab</b>	
1208H	10
1208L	50
1208C	100
<b>Mini Fuse Power Tap - .187 Tab</b>	
1210H	10
1210L	50
1210C	100
<b>Glass Fuse Power Tap - .250 Tab</b>	
1212H	19
1212L	50
1212C	100

**Using a Fuse Adapter**



**Universal Fuse Puller**

- Pulls glass & blade type fuses

Part#	Pc
2490F	1



**ATC/ATO & Mini Fuse Puller & Tester**

- To use tester touch the two contacts to the two fuse blades - green light will glow if fuse has power. Other side is used as a fuse puller.
- Comes installed with two LR41 alkaline batteries.

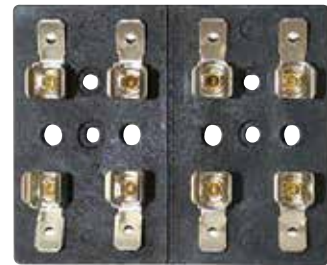
Part#	Pc
2489F	1



Testing a fuse is now quick, accurate and easy with the Mini Fuse Puller and Tester. An LED light tells you instantly if the fuse you're testing has power. The reverse side functions as a convenient fuse puller. Includes two LR41 alkaline batteries.

**2450F 4 Position - Glass Fuse Block**

- 4 Position
- 30 AMP
- 32 Volts
- Each holder has two .250 Tabs for connection.



**2452F 4 Position - Junction Block**

- 4 Position
- 30 AMP
- 300 Volts
- Each position has two screws for connection.





# Fuses & Accessories

## 2453F 6 Position - Junction Block

- 6 Position
- 30 AMP
- 600 Volts
- Each position has two screws for connection.



## 2454F 6 Position - ATC/ATO Fuse Block

- 6 Position
- 30 AMP
- 600 Volts
- Each position has two screws for connection.



## 2457F 2 Terminal - Thermal Automotive Flasher

• Bussmann (552)

- 12 Volts
- Up to 12.8 AMP
- 2-6 Bulbs - 32CP Max
- Thermal design uses heat build-up to flash circuit on & off.
- Features an audible click, alerting that a directional signal is engaged.
- Operates correctly under variable load-flashing the designated vehicle bulbs only; or additional bulbs when a trailer is in tow.
- Meets or exceeds S.A.E. & O.E.M. standards.



## 2458F 3 Terminal - Thermal Automotive Flasher

• Bussmann (550)

- 12 Volts
- Up to 12.8 AMP
- 2-6 Bulbs - 32CP Max
- Thermal design uses heat build-up to flash circuit on & off.
- Features an audible click, alerting that a directional signal is engaged.
- Operates correctly under variable load-flashing the designated vehicle bulbs only; or additional bulbs when a trailer is in tow.
- Meets or exceeds S.A.E. & O.E.M. standards.



## 7785F Rectangular - Distribution Block

• Use with speaker wire, primary wire &/or starter cable - see pgs. 55-60

- Rectangular distribution block has 24K hard gold-plated hardware.
- Durable injection molded, heat resistant, clear acrylic base & cover.
- One input - accepts up to 4 AWG wire.
- Four outputs - accepts up to 8 AWG wire.
- Perfect for stereo systems.



## 7786F Triangular - Distribution Block

• Use with speaker wire, primary wire &/or starter cable - see pgs. 55-60

- Triangular distribution block has 24K hard gold-plated hardware.
- Durable injection molded, corrosion resistant, black base & clear acrylic cover.
- One input - accepts up to 4 AWG wire.
- Four outputs - accepts up to 8 AWG wire.
- Perfect for stereo systems.



## 7930F Power Tap - For Glass Fuses | 4 Pcs.

- 12 Volt hook-up for stereos, CBs & other accessories.
- Provides direct power connection at the fuse block.
- Comes with two adapters & two matching fully insulated female disconnects.

Part#	Description	Pcs
1212	.250 Tab Glass Fuse Power Tap Adapters	2
2116	16-14 AWG .250 FI Nylon FM Disconnects	2

Kit is in a re-closable container



## 7931F Power Tap - For ATC/ATO Fuses | 4 Pcs.

- 12 Volt hook-up for stereos, CBs & other accessories.
- Provides direct power connection at the fuse block.
- Comes with two adapters & two matching fully insulated female disconnects.

Part#	Description	Pcs
1208	.250 Tab ATC/ATO Fuse Power Tap Adapters	2
2116	16-14 AWG .250 FI Nylon FM Disconnects	2

Kit is in a re-closable container



## 2414F AGC Glass Fuse Kit | 8 Pcs.

Part#	Description	Pcs
2403	3 Amp AGC Glass Fuses	1
2406	5 Amp AGC Glass Fuses	1
2408	7.5 Amp AGC Glass Fuses	1
2409	10 Amp AGC Glass Fuses	1
2410	15 Amp AGC Glass Fuses	1
2411	20 Amp AGC Glass Fuses	1
2412	25 Amp AGC Glass Fuses	1
2413	30 Amp AGC Glass Fuses	1

Kit is in a re-closable container



**2422F SFE Glass Fuse Kit | 8 Pcs.**

Part#	Description	Pcs
2418	9 Amp SFE Glass Fuses	2
2419	14 Amp SFE Glass Fuses	2
2420	20 Amp SFE Glass Fuses	2
2421	30 Amp SFE Glass Fuses	2



Kit is in a re-closable container

**20328F 20 thru 80 Amp MAXI Fuse Kit | 6 Pcs.**

Part#	Description	Pcs
20310	20 Amp Yellow Fuses	1
20311	30 Amp Green Fuses	1
20312	40 Amp Orange Fuses	1
20313	50 Amp Red Fuses	1
20314	60 Amp Blue Fuses	1
20315	80 Amp Clear Fuses	1



Kit is in a re-closable container

**2474H 5 thru 30 Amp Mini Fuse Kit | 6 Pcs.**

Part#	Description	Pcs
20303	5 Amp Orange Fuses	1
20305	10 Amp Red Fuses	1
20306	15 Amp Blue Fuses	1
20307	20 Amp Yellow Fuses	1
20308	25 Amp Clear Fuses	1
20309	30 Amp Green Fuses	1



Kit is in a re-closable container

**2475F 5 thru 30 Amp ATC/ATO Fuse Kit | 6 Pcs.**

Part#	Description	Pcs
2431	5 Amp Orange Fuses	1
2433	10 Amp Red Fuses	1
2434	15 Amp Blue Fuses	1
2435	20 Amp Yellow Fuses	1
2436	25 Amp Clear Fuses	1
2437	30 Amp Green Fuses	1



Kit is in a re-closable container

**11-1008 5 thru 30 Amp Smart Glow-Mini Fuse Kit | 6 Pcs.**

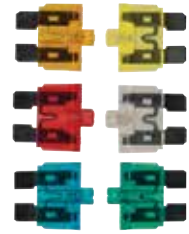
Part#	Description	Pcs
11-1000	5 Amp Orange Fuses	1
11-1001	10 Amp Red Fuses	1
11-1002	15 Amp Blue Fuses	1
11-1003	20 Amp Yellow Fuses	1
11-1004	25 Amp Clear Fuses	1
11-1005	30 Amp Green Fuses	1



Kit is in a re-closable container

**10-1008 5 thru 30 Amp Smart Glow-ATC/ATO Fuse Kit | 6 Pcs.**

Part#	Description	Pcs
10-1000	5 Amp Orange Fuses	1
10-1001	10 Amp Red Fuses	1
10-1002	15 Amp Blue Fuses	1
10-1003	20 Amp Yellow Fuses	1
10-1004	25 Amp Clear Fuses	1
10-1005	30 Amp Green Fuses	1



Kit is in a re-closable container

**2476H American Vehicle Fuse Kit | 6 Pcs.**

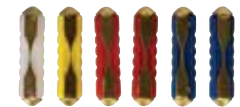
Part#	Description	Pcs
2406	5 Amp AGC Glass Fuses	1
2418	9 Amp SFE Glass Fuses	1
2419	14 Amp SFE Glass Fuses	1
2410	15 Amp AGC Glass Fuses	1
2420	20 Amp SFE Glass Fuses	1
2413	30 Amp AGC Glass Fuses	1



Kit is in a re-closable container

**2477H German Vehicle Fuse Kit | 6 Pcs.**

Part#	Description	Pcs
2424	5 Amp Yellow GBC Bakelite Fuses	1
2425	8 Amp White GBC Bakelite Fuses	1
2427	16 Amp Red GBC Bakelite Fuses	2
2428	25 Amp Blue GBC Bakelite Fuses	2



Kit is in a re-closable container

**2478H British & Japanese Vehicle Fuse Kit | 6 Pcs.**

Part#	Description	Pcs
2406	5 Amp AGC Glass Fuses	1
2408	7.5 Amp AGC Glass Fuses	1
2409	10 Amp AGC Glass Fuses	1
2410	15 Amp AGC Glass Fuses	1
2411	20 Amp AGC Glass Fuses	1
2413	30 Amp AGC Glass Fuses	1



Kit is in a re-closable container

**6973F 3 thru 30 Amp ATC/ATO Fuse Kit w/ Tester Tool | 203 Pcs.**  
Kit also includes disconnects & adapter clips that provide direct power connection at the fuse block & 1-30 Amp ATC/ATO Fuse Holders that make solid, safe, quick & easy connections

Part#	Description	Pcs
2430	3 Amp Purple Fuses	20
2431	5 Amp Orange Fuses	20
2432	7.5 Amp Brown Fuses	20
2433	10 Amp Red Fuses	20
2434	15 Amp Blue Fuses	20
2435	20 Amp Yellow Fuses	20
2436	25 Amp Clear Fuses	20
2437	30 Amp Green Fuses	20
1208	.250Tab ATC/ATO Fuse Power Tap Adapters	20
2116	16-14 AWG .250 FI Nylon FM Disconnects	20
2529H	1-30 Amp ATC/ATO Fuse Holders-12 AWG 7" Wire	2
2489	Fuse Puller/Tester Tool	1
SP12	12 Compartment Lockable Plastic Box	

