

# momentary & push-pull switches

# F



|                       |    |
|-----------------------|----|
| Push-Button Switches  | F1 |
| Push-Button Caps      | F2 |
| Push-Pull Switches    | F3 |
| Push-Pull Accessories | F4 |

## F1 PUSH-BUTTON SWITCHES

### Normally Off

*SPST. Off - Momentary On. On with button depressed, spring return to Off. Corrosion-resistant brass case, plunger button and mounting hardware. Moisture-repellent insulators. Chrome-plated buttons and facenuts, except where noted.*

### Extra Heavy Duty

35A at 12V, 20 at 24V, 10A at 36V DC.

#### M-490 BP ★

Two brass screw terminals. Mounting stem; brass 5/8"-32 thread, 1 3/8" (34.9mm) long, fits panels up to 1" (25.4mm) thick. Silver contacts.



#### M-626 With Snap-On Cap BP ★

Same as M-490, but with snap-on black rubber cap 407-03.



#### M-626-02 With Screw-On Cap BP ★

Same as M-490, but with screw-on black rubber cap 83280-03.



#### M-612 With Recessed Button BP

Same as M-490, but with recessed facenut, designed to prevent accidental actuation.



#### M-491 With Large Button BP

Same as M-490, but with large anodized aluminum button, 15/16" (23.8mm) diameter.



★ Rapid ship item. BP Available in retail clamshell pack. ★ Minimum order quantity may apply. Part numbers needed in BOX require a -BX suffix on the purchase order.

## Heavy Duty

10A at 12V DC. For 6-36V DC applications.

### M-492 BP ★

Two brass screw terminals. Brass mounting stem 5/8"-32, 1 3/8" (34.9mm) long. Fits panels up to 1" (25.4mm) thick.



#### M-492-01\*

Same as M-492 except with blade terminals.

### M-485 With 1" Stem, and Gasket BP ★

Two brass screw terminals. Brass mounting stem 5/8"-32, 1" (25.4mm) long. Fits panels up to 3/4" (19.1mm) thick. Gasket-sealed case.



#### M-524 With Snap-On Cap

Same as M-485 except with snap-on black rubber cap 407-03.

#### M-485-01

Same as M-485 except with blade terminals.

#### M-485-02

Same as M-485 except with screw-on black rubber cap 83280-03.

### M-608 PVC-Coated BP ★

PVC-coated body sealed against moisture and dirt, with black rubber snap-on cap 407-03. Two 12" (304.8mm) 18AWG leads. Brass mounting stem 5/8"-32, 15/16" (23.8mm), fits panels up to 1/2" (12.7mm) thick.



## Normally On

*SPST. On - Momentary Off. Off with button depressed, spring return to On. Corrosion-resistant brass case and mounting hardware. Gasket-sealed case. 10A at 12V DC.*

### M-639 With Chrome Plunger

Chrome-plated brass plunger. Two brass screw terminals. Brass mounting stem 5/8"-32 thread, 1" (25.4mm) long. Fits panels up to 3/4" (19.1mm) thick.



### M-914-01 With Nylon Cap Plunger

Two brass screw terminals. Brass mounting stem 3/8"-32 thread, 1" (25.4mm) long. Fits panels up to 3/4" (19.1mm) thick.



## Typical Applications

for push-button & push-pull switches

|                      |   |
|----------------------|---|
| <b>Horn:</b>         | 9187, M-492, M-490, M-608, M-612, M-626, M-626-02 |
| <b>Start:</b>        | 9187, M-492, M-490, M-608, M-612, M-626, M-626-02 |
| <b>Stop:</b>         | M-530   |
| <b>Hatch/Door:</b>   | 9006, 90043-07, 90043, 91126                      |
| <b>Lights:</b>       | M-476, M-482, M-482-01, M-532 (3 circuit)         |
| <b>Windlass:</b>     | 9250  |
| <b>Nav light:</b>    | M-476, M-532                                      |
| <b>Single Wiper:</b> | M-482, M-527, M-606                               |
| <b>Magneto:</b>      | M-530   |

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## Specialized Push-Button Switches

### 90002 Normally On, Sealed

Weather-resistant and dust-resistant. Gasket-sealed case and O-ring in stem. Two screw terminals with lockwashers. Mounting stem: 5/8"-32 thread, 1 1/16" (26.9mm) long.



### 90002-01 Normally On, Sealed, Heavy-Duty

Same as 90002, except with silver contacts for heavy duty applications up to 36V DC.

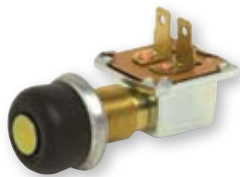
### 91126 Normally On, PVC-Coated

PVC-coated body for moisture and dirt protection. Two 7" (177.8mm) wire leads. Mounting stem: 7/16"-20 thread, .44" (11.2mm) long. Steel button, .38" (9.7mm) diameter.



### 90043 Normally On, Sealed, With Rubber Cap

Two blade terminals accept 2-pole Delphi (Packard) connector 2977647 or equivalent. Mounting stem: 5/8"-32 thread, .625" (15.9mm) long. Gasket seal in the case. Steel plunger protrudes through the snap-on rubber cap. Plated steel case. Solid silver contacts 20A at 12V DC, make and break, 30A continuous.



### 90043-07 PVC-Coated, Sealed, With Rubber Cap

Same as 90043, except with PVC-coated body and two 7" (177.8mm) 18AWG wire leads.



### 9006 Normally On, With Boot

Black rubber boot covers and protects the face of the switch, making it dust-resistant. Plastic button. 4A at 12V DC lamp load. Two 2mm x 5mm blade terminals. 4A at 12V DC.



### 9044 Normally Off

2 screw terminals. Mounting stem: 5/8"-32 thread, 1.06" (26.9mm) long. Gasket seal in the case. Chrome-plated brass button and facenut. Steel case. 10A at 12V DC.



### 9187 Normally Off, Black Button

5A at 12V to 24V DC. Two blade terminals .250" wide (6.4mm). Nickel-plated brass hexnut and facenut. Nylon push-button, .410" diameter (10.4mm). Body size (to top of terminal): .890"L x .560"W x .773"H (22.6 x 14.2 x 19.6mm).

### 9187-01 Normally Off, White Button

Same as 9187, except with white/natural nylon color button.

### 9187-02 Normally Off, Red Button

Same as 9187, except with red button.



**9250 Momentary Windlass Switch**

35A at 12V, 20A at 24V DC. Picture shows typical vertical mounting location. Mounting plate and diaphragm are not supplied. Off-Momentary On, spring return to Off. Brass case and mounting hardware. Silver contacts. Two brass screw terminals. Brass mounting stem 5/8" -32 thread, 7/16" (11.1mm) long, fits panels up to 3/16" (4.8mm) thick. Anodized aluminum button 15/16" (23.8mm) diameter. Plunger button is loose, and must be held in place with rubber diaphragm.



**F2 PUSH-BUTTON CAPS**

**Threaded Caps**

Rubber cap is permanently fastened to the integral mounting nut by a rolled brass bezel. The deep threaded 5/8" -32 aluminum mounting nut assures a positive seal. Durable, resilient rubber, embossed 'PUSH'. Fits Cole Hersee and all other push button switches with a 5/8" -32 thread mounting stem.

**83280 Gray**

**83280-02 Red**

**83280-03 Black** BP



**83280-05 Oil-Resistant**

Resistant to gasoline and diesel fuels. Cap is molded from resilient Hydrin which provides excellent resistance. Brown color.

**Snap-on Caps**

Ribs on the inside of the rubber cap engage with the switch facenut.

**407-01 Gray** BP

**407-02 Red** BP

**407-03 Black** BP



**F3 PUSH-PULL SWITCHES**

**Marine Construction**

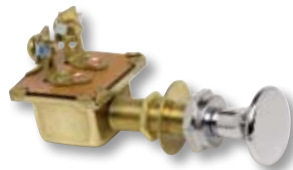
10A at 12V DC, 6-36V DC. Brass mounting hardware included.

**One Circuit**

Brass housing, brass mounting stem 3/8" -32 thread, 1 1/4" (31.8mm) long. Fits panels up to 3/4" (19.1mm) thick.

**M-482 SPST Off-On** BP ★

Normally Off. Two brass screw terminals. Chrome-plated brass knob. Gasket-sealed case.



**M-482-01 SPST Off-On** BP

Normally Off. Two brass blade terminals. Chrome-plated brass knob. Gasket-sealed case.

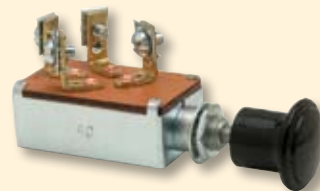


**M-482-02 SPST Off-On**

Normally Off. Two brass screw terminals. Black plastic knob, 10-32 thread, and set screw. Gasket-sealed case.



**Push-Pull Ignition**



Push-pull ignition and start switch 9576. See page 4.

★ Rapid ship item. BP Available in retail clamshell pack. ★ Minimum order quantity may apply. Part numbers needed in BOX require a -BX suffix on the purchase order.

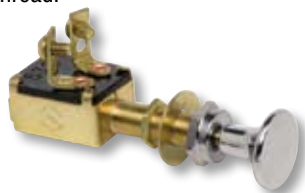
**M-606 SPST Off-On** BP ★

Normally Off. Brass housing, plasticized. Two insulated copper wire leads, 12" (304.8mm) long. Chrome-plated brass knob, 10-32 thread.



**M-628 SPST Off-On** BP ★

Normally Off. Two brass screw terminals. Chrome-plated brass knob, 10-32 thread.



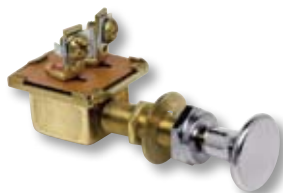
**M-486 SPST Off-On "Pull"**

Normally Off. Brass case and mounting hardware. Two brass screw terminals. Brass mounting stem 3/8" -32, 1 1/4" (31.8mm) long. Fits panels up to 7/8" (22.2mm) thick. Chrome-plated brass knob, embossed 'PULL,' 7/8" (22.2mm) diameter.



**M-530 SPST Off-On**

Normally On. Gasket-sealed brass housing. Two brass screw terminals. Chrome-plated brass knob. Brass mounting stem, 3/8" -32 thread, 1 1/4" (31.8mm) long.



**Two Circuits**

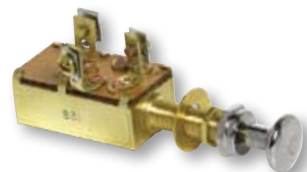
**M-527 SPST Off-On** BP

Normally Off. Brass housing. Three brass screw terminals. Chrome-plated brass knob 10-32 thread. Brass mounting stem, 3/8" -32 thread, 1 1/4" (31.8mm) long, fits panels up to 1" (25.4mm) thick. With brass facenut, washer and hexnut.



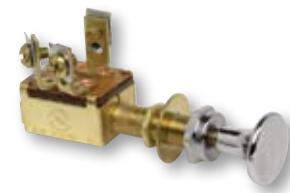
**M-531 SPST Off-On-On** BP

Off - On A&B - On B&H. Brass housing. Three brass screw terminals. Chrome-plated brass knob 10-32 thread. Brass mounting stem, 3/8" -32 thread, 1 1/4" (31.8mm) long, fits panels up to 1" (25.4mm) thick. With brass facenut, washer and hexnut.



**M-630 SPDT On-On**

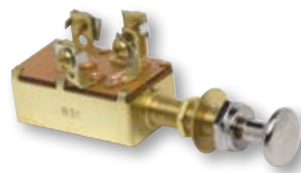
Brass housing. Three screw terminals. Chrome-plated brass knob. Brass mounting stem, 3/8" -32 thread, 1 1/4" (31.8mm) long, fits panels up to 1" (25.4mm) thick. With brass facenut, washer and hexnut.



**Three Circuits**

**M-532 Running lights, Anchor Light, Headlights** BP

SPDT Off-On1-On2. On 1 Battery, running lights, anchor light. On 2 Battery, running lights, headlights. Brass housing. Four brass screw terminals. Chrome-plated brass knob 10-32 thread. Brass mounting stem, 3/8" -32 thread, 1 1/4" (31.8mm) long, fits panels up to 1" (25.4mm) thick. With brass facenut, washer and hexnut.



**M-476 SPDT Off-On-On** BP

Off-On1-On1&2, normally Off. Three screw terminals. Chrome-plated brass knob. Applications include control of lighting circuits, including cabin and running lights.



★ Rapid ship item. BP Available in retail clamshell pack. ★ Minimum order quantity may apply. Part numbers needed in BOX require a -BX suffix on the purchase order.

**F4 PUSH-PULL ACCESSORIES**

**Brass Facenuts**

Chrome-plated brass, or nickel-plated brass.

**8340 To Fit 3/16" Shaft**

5/8" (15.9mm) hex, 1/4" (6.4mm) thickness. 3/8"-24 thread to fit 3/16" (4.8mm) shaft. Chrome-plated brass.



**8343 To Fit 1/4" Shaft**

5/8" (15.9mm) hex, 1/4" (6.4mm) thickness. 7/16"-28 thread to fit 1/4" (6.4mm) shaft. Chrome-plated brass.

**8304**

Round knurl 3/4" (19.0mm) diameter, 1/4" (6.4mm) thickness. 5/8"-32 thread. Chrome-plated brass.



**83307 For Toggle Switches**

Nickel-plated brass. Round knurl 9/16" (14.3mm) diameter, 1/16" (1.6mm) thickness. 15/32"-32 thread.



**Brass Hexnuts**

**For Mounting Of Switches**



**8346 3/8-32**

1/2" (12.7mm) hex, 3/32" (2.4mm) thick.

**8338 5/8-32**

7/8" (22.2mm) hex, 1/8" (3.2mm) thick.

**Plated Brass Knobs**

Chrome-plated solid brass, no imprint.

**8113-10**

Face diameter 7/8" (22.2mm), 10-32 thread.



**8197-10**

Face diameter 3/4" (19.0mm), 10-32 thread.



**Running Lights**

**US Collision regulations (COLREGS)**

|                                  | Vessels under 12 meters length | Vessels 12-21 meters length |
|----------------------------------|--------------------------------|-----------------------------|
| White, Red, Green or Yellow 360° | 2 nautical miles               | 2 nautical miles            |
| Masthead                         | 2                              | 3                           |
| Stern                            | 2                              | 2                           |
| Red & Green                      | 1                              | 2                           |
| Towing                           | 2                              | 2                           |

12 meters = 39.4ft, 20 meters = 65.6ft

Boats under 23ft may carry a 360° lantern or flashlight in lieu of running lights. International regulations allow sailboats under 20 meters to display a single masthead tricolor navigation light while under sail. Suitable Push-Pull light switches – M-476 and M-532.

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