Installation Instructions

M-284 SERIES

Part Number: M-284, M-284-01, M-284-01-BP, M-284-01-BX, M-284-02, M-284-02-BX, M-284-09-BP, M-284-A, M-284-BX, M-284-BP, M-284-BX

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M-284-01

M-284-02

M-284-09-BP

Description

The M-284 Series 36V 175A Marine Battery Disconnect Switch is a marine-grade, brass-body master battery disconnect switch for boat and commercial vehicle applications that features single-pole, single-throw (SPST) circuitry.

Disconnecting a boat or vehicle battery from the electrical system with a master battery disconnect switch prevents potential thermal events and ensures the system is shut down during maintenance or an emergency. In addition, using a manual battery disconnect switch during periods of inactivity, such as when a boat or vehicle is stored, prevents parasitic loads from draining the battery.

This Cole Hersee brand disconnect switch is available in a variety of configurations, including UL Listed models and sealed models.

Web Resources

Download 2D print, installation guide and technical resources at: **littelfuse.com/M-284**

Order Information:

PART NUMBER	DESCRIPTION
M-284	Battery Disconnect Switch with Copper Studs
M-284-01	Battery Disconnect Switch with Silver-Plated Brass Studs - UL Listed
M-284-01-BP	Battery Disconnect Switch with Silver-Plated Brass Studs - UL Listed - Blister Pack
M-284-01-BX	Battery Disconnect Switch with Silver-Plated Brass Studs - UL Listed - Boxed
M-284-02	Battery Disconnect Switch with Silver-Plated Brass Studs - Sealed
M-284-02-BX	Battery Disconnect Switch with Silver-Plated Brass Studs- Sealed - Boxed
M-284-09-BP	Battery Disconnect Switch with Copper Studs & Faceplate - Blister Pack
M-284-A	Battery Disconnect Switch with Silver-Plated Brass Studs
M-284-BX	Battery Disconnect Switch with Silver-Plated Brass Studs - Boxed
M-284-BP	Battery Disconnect Switch with Copper Studs - Blister Pack
M-284-BX	Battery Disconnect Switch with Copper Studs Boxed

Installation

Assemble the Fuse Holder in the following sequence:

Step 1: Ensure that switch M-284 includes all required components: knob, shaft, ¾" hex nut, lock washer, #8-32 screw, lower studs, and bushing body.
Visually inspect the switch to confirm there are no damages, loose parts, or deformations.

Step 2: Carefully remove the #8-32 screw and lock washer located on the top of the switch using a flat-head screwdriver.
Gently pull the knob off the shaft, avoiding excessive force that could damage the shaft or internal mechanism.

Step 3: Unscrew the ¾" nut and lock washer that secure the switch to the mounting panel.
Keep these parts for later reassembly.

Step 4: Select a panel with a 20.62 mm diameter hole and a thickness within the range of 0.032" to 0.450". Ensure the panel surface is clean, flat, and free of burrs to guarantee a proper fit.

Step 5: Insert the bushing body of the switch into the panel hole. Position the panel so that it covers at least half of the bushing length. Place the lock washer and ¾" nut over the panel and tighten to a maximum torque of 24 Nm.
Note: Do not fully bottom the nut onto the bushing, as this may compromise fixation. Reinstall the knob on the upper shaft and secure it with the lock washer and #8-32 screw.

Step 6: Install the terminals onto the lower studs. Terminals must have a minimum hole diameter of 3/8" to ensure proper seating.
Place the terminal on the first nut-and-washer set, then secure it with the second nut-and-washer set. Tighten the stud nuts to the manufacturer's specified torque (10–12 Nm).
Verify that terminals are properly aligned and seated

Step 7: Operate the switch to ensure smooth movement and no excessive play in the knob. Confirm that the installation is firm and that all components are securely fastened.

Step by step images shown in Figure 2 on page 2.

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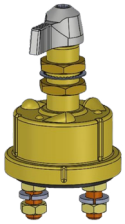
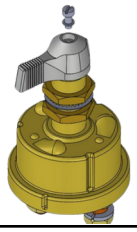
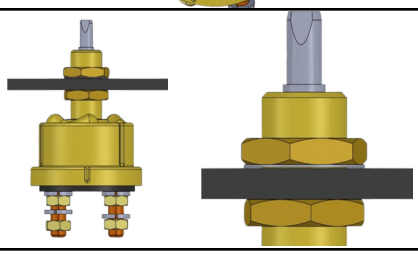
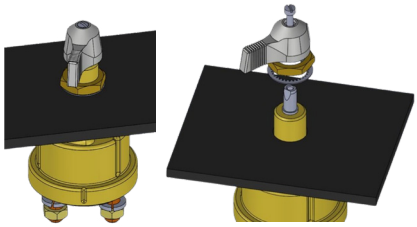
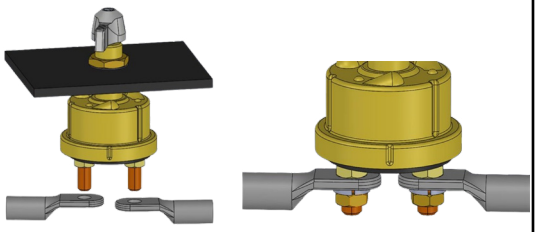
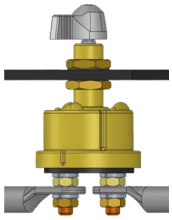
STEP 1		Ensure that switch M-284 includes all required components: knob, shaft, ¾" hex nut, lock washer, #8-32 screw, lower studs, and bushing body. Visually inspect the switch to confirm there are no damages, loose parts, or deformations.
STEP 2		Carefully remove the #8-32 screw and lock washer located on the top of the switch using a flat-head screwdriver. Gently pull the knob off the shaft, avoiding excessive force that could damage the shaft or internal mechanism.
STEP 3		Unscrew the ¾" nut and lock washer that secure the switch to the mounting panel. Keep these parts for later reassembly.
STEP 4		Select a panel with a 20.62 mm diameter hole and a thickness within the range of 0.032" to 0.450". Ensure the panel surface is clean, flat, and free of burrs to guarantee a proper fit.
STEP 5		Insert the bushing body of the switch into the panel hole. Position the panel so that it covers at least half of the bushing length. Place the lock washer and ¾" nut over the panel and tighten to a maximum torque of 24 Nm. Note: Do not fully bottom the nut onto the bushing, as this may compromise fixation. Reinstall the knob on the upper shaft and secure it with the lock washer and #8-32 screw.
STEP 6		Install the terminals onto the lower studs. Terminals must have a minimum hole diameter of 3/8" to ensure proper seating. Place the terminal on the first nut-and-washer set, then secure it with the second nut-and-washer set. Tighten the stud nuts to the manufacturer's specified torque (10–12 Nm). Verify that terminals are properly aligned and seated
STEP 7		Operate the switch to ensure smooth movement and no excessive play in the knob. Confirm that the installation is firm and that all components are securely fastened.

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