

M-750 BATTERY SELECTOR/MASTER DISCONNECT SWITCH



M-750



M-753 with keys

Features and Benefits

- 500A intermittent, 310A continuous, 6-36V DC.
- Available with enhanced features such as alternator field disconnect circuit.
- Provides a sure and reliable battery disconnection, protecting against electrical fire, tampering or theft, and battery drain.
- For any vehicle using two batteries, such as boats, emergency and rescue vehicles, trucks, RVs, buses, and utility trucks.



Specifications

- Vaporproof, water-resistant, dustproof and corrosion resistant.
- Ignition protected: conforms to USCG safety standard Section 183.410.
- UL and CE certified.
- Body diameter 5.00" (127.00mm), mounting flange diameter 6.00" (152.40mm), overall height 2.64" (67.31mm). Three 3/8" - 24 copper studs.
- Functions either with alternators or generators.
- Make before break design permits operation through the On positions with the engine running.

Web Resources

Download technical resources at:
littelfuse.com/M-750

Ordering Information

	MODEL	LOCK	ALTERNATOR FIELD DISCONNECT	PILOT CIRCUIT
	M-750			
OB	M-752		•	
OB	M-753	•	•	
	M-754			•

Large knob for easy grip... even when wearing gloves.

Flange for easy flush mounting. Can also mount through a panel.

Heavy spring ensures rock-solid electrical contact and provides strong detent action to the switch.

3/8" - 24 copper studs are solidly machined to the contact plates and cannot come apart.

All-weather hardware: heavy copper studs and brass nuts for maximum current capacity.

Max Starting Power
Delivers maximum starting power: allows either or both batteries to be used. Can be switched between batteries even when the engine is running.

Impact-Resistant
Rugged polyester thermo-plastic case and knob. Stands up to impact, maintains its water-resistant integrity.

Water-Resistant
High-performance synthetic rubber o-ring keeps out water, contaminants and vapors. Many battery switches have no o-ring!

500 Amp Capacity
Solid copper contact plates. Easily handles amperages as high as 500A intermittent. Largest amp capacity for the dollar of any battery switch.

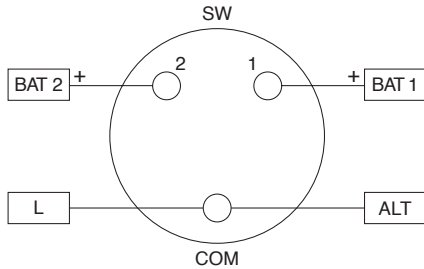
Corrosion-Proof
Stainless steel screws securely hold the plate against the o-ring, and keep the switch watertight.

Datasheet Replaces Hotfeed Number D-598

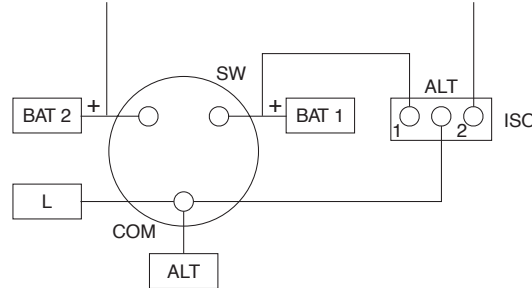
HM-750 BATTERY SELECTOR/MASTER DISCONNECT SWITCH

Typical Wiring Diagrams for M-750 & M-751

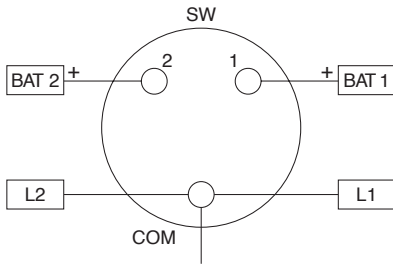
2 Batteries, 1 Switch, 1 Engine, 1 Alternator



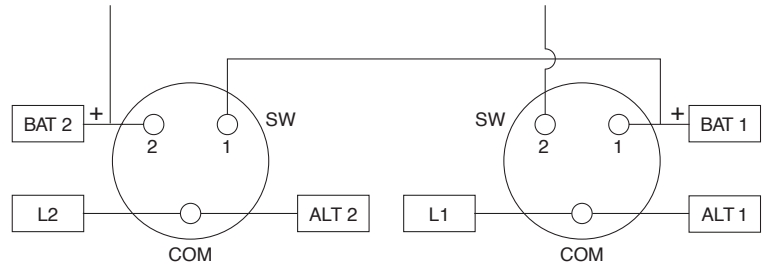
2 Batteries, 1 Switch, 1 Engine, 1 Alternator, with Battery Isolator



2 Batteries, 1 Switch, 1 Engine, 1 Alternator



2 Batteries, 1 Switch, 1 Engine, 1 Alternator



Key to the diagrams:

- | | | |
|-----------------------------|--------------------|--------------------------|
| BAT1 = Battery 1 and common | COM = Common | L1 = Starter No.1 & load |
| BAT2 = Battery 2 and common | SW = Switch | L2 = Starter No.2 & load |
| ISO = Battery isolator | L = Starter & load | ALT = Alternator |

Mounting

M-750 series switches can be mounted flush or from behind, through a circular hole. When mounted flush, the switch covers over any holes previously made. When mounted from behind, No. 563 self-adhesive plastic sticker is available, which is identical to the ring-shaped sticker already on the switch.

Surface Mounting

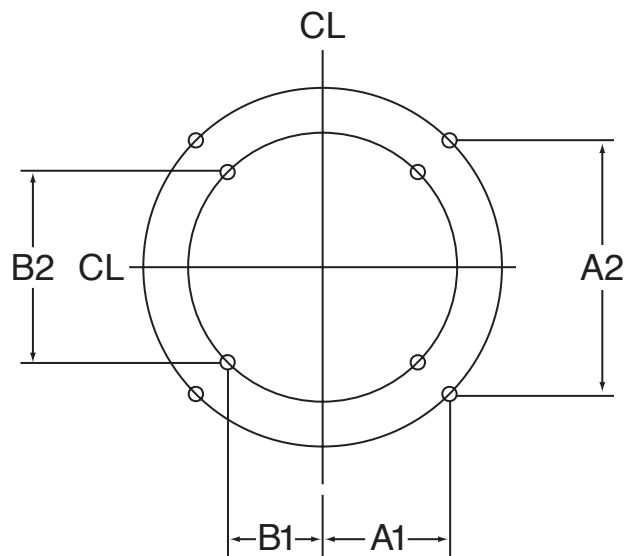
Drill four holes on a 5.500" diameter circle (139.7mm). Hole size 0.218" (5.53mm) diameter will accept No.10 screws.

- A1 = 1.944" (49.38mm)
- A2 = 3.888" (97.78mm)
- CL = Center line

Through Panel Mounting

Housing & knob clearance hole 3.312" diameter (84.12mm). Drill four holes on a 4.395" diameter circle (116.63mm). Hole size 0.201" (5.10mm) diameter, 0.5" (12.70mm) deep for 1/4" -20 bolts.

- B1 = 1.553" (39.46mm)
- B2 = 3.107" (78.92mm)
- CL = Center line



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