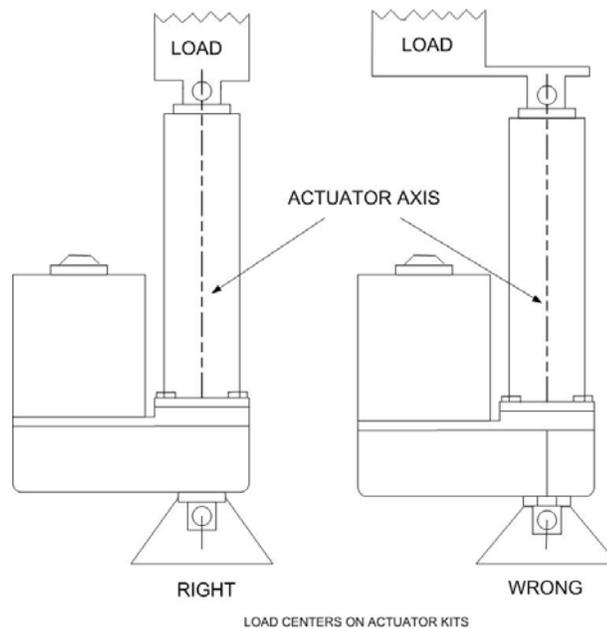


LINEAR HATCH ACTUATOR INSTALLATION

Please follow all instructions carefully to ensure safe, reliable operation.

Mounting:

1. The ends of the actuator must be firmly mounted to withstand the required restraining torque. It is recommended that you use Hardin Marine mounting bracket #620-920010. Failure to properly restrain the actuator ends can result in personal injury or damage to nearby equipment.
2. Do not submerge in water or install the actuator in a location that may result in the actuator becoming submerged such as the bottom of the bilge.
3. The mounting brackets and actuator must be positioned so that the weight load is carried along the center axis of the actuator. Off-center loads may cause binding and/or premature failure. See figure below.



Electrical Wiring:

Check the warning label!! The minimum allowable wire size is 12 AWG wire. Use of smaller gauge wire will cause premature motor failure due to voltage loss.

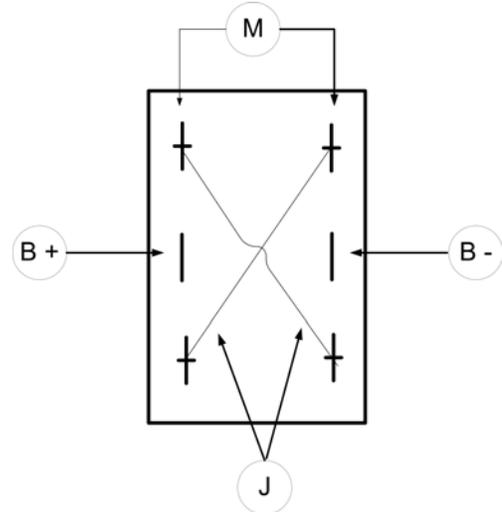
WARNING
USE 12 AWG WIRE OR
LARGER FROM MOTOR TO
SWITCH

Switches

1. The actuator switch must not be installed in an area that requires ignition protection such as an engine or fuel storage compartment.
2. A 30 amp, type AGC fuse must be installed between the power source and the actuator switch to protect against current overload.
3. Actuator direction (forward, reverse) is controlled with a double throw switch with the center position "off".

Use switch #620-1050

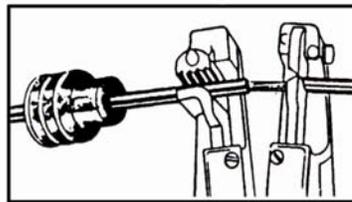
- Double-pole, double-throw
- 20 amp at 28 VDC
- Center "off"
- Two momentary contacts



M = TO MOTOR
 B = TO BATTERY
 J = JUMPER WIRE

Typical Assembly Instructions For Sealed Connectors

These assembly instructions apply to the Weather-Pack Connector.



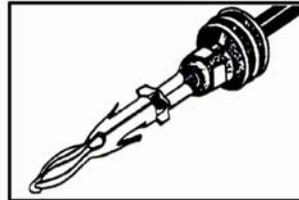
1. Apply seal to cable, before stripping insulation.



2. Align seal with cable insulation.



3. Put terminal in crimping tool, then position wire and seal in place.



4. Crimp and visually inspect for a good crimp before installing in connector body.



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Operation:

1. Actuator "operation time" must not exceed 25%. Example: If "operation time" is 25 seconds, then the actuator must remain off for 75 seconds before being operated again.
2. Actuator is factory lubricated for life and no additional lubrication is required for maintenance.
3. The actuator incorporates a slip clutch to protect against overloading. The clutch is preset at the factory to slip if the load exceeds the rated load of 6.5 NM (Newton Meters).
4. Operation of the actuator to the fully extended or retracted position will result in a "ratcheting" sound, this is normal and is the result of the slip clutch protection.

Warranty Information

All Hardin Marine Linear Hatch Actuators carry a 90-day warranty on defects in materials and workmanship. Should Hardin Marine determine that a product should be returned to the factory, it must be properly packed to protect it from further damage and be shipped freight prepaid with proof of purchase and the factory issued Return Goods Authorization (RGA) number prominently marked on the outside of the shipping container.

If, after a thorough inspection at the factory, the product indicates a defect in materials or workmanship, Hardin Marines' sole obligation shall be to repair or replace the product at their discretion.

Hardin Marine shall not be liable for any and all consequential damages or labor claims arising from the use of our products, tools, and equipment covered by any written or implied warranty in excess of the purchase price of the products sold.

NOTE: Do NOT return the actuator to the place of purchase, contact Hardin Marine at 707-585-9006 for technical or warranty information.