

NSO-1 ROTARY MASTER SWITCH INSTALLATION INSTRUCTIONS & SERVICE BULLETIN

Description

The Type NSO-1 Rotary Master Switch is available with switches mounted so they extend horizontally from the body.

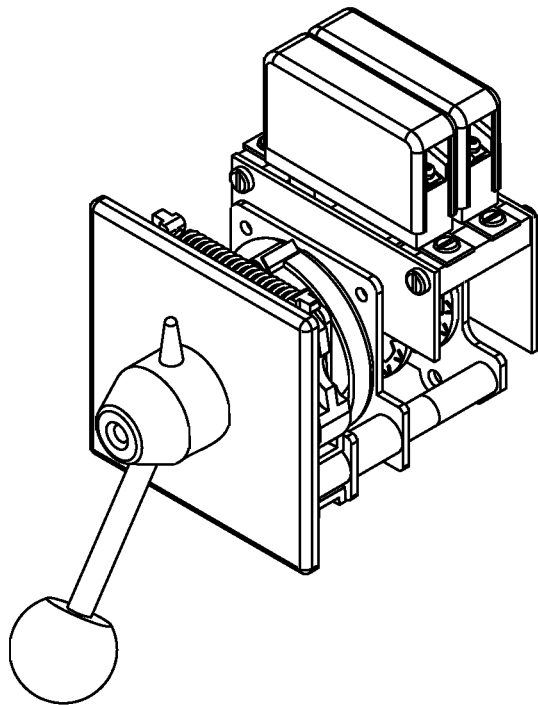
The NSO-1 Rotary Master Switch provides a step control for the operation of machinery.

Installation

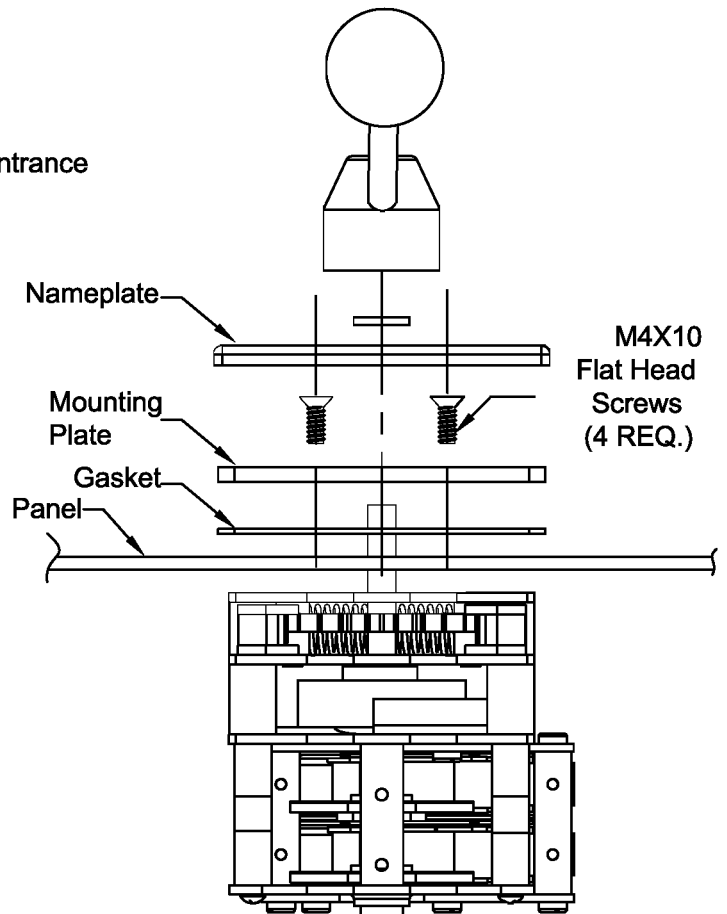
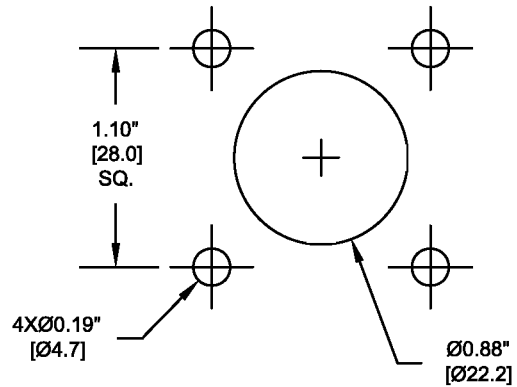
The NSO-1 Rotary Master Switch requires a 5 hole mounting pattern (see panel hole detail). It is necessary to remove the operating knob to install the NSO-1 Rotary Master Switch.

Access to the controller should be comfortable and unobstructed. Care should be taken in console and cab design to **AVOID LOCATIONS WHERE:**

- Inadvertent operation is possible
- Operator is able to apply an excessive amount of force to the control lever.
- Control handle could be used as means of supporting entrance and exit from the cab area
- Hand and knuckle clearance is limited.



Panel Hole Detail



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Service

Periodic lubrication is recommended. A light grease should be applied to active components, such as bearings and detent rollers.

Inspect condition of contacts and cams and replace them if needed. Replace any worn, burnt or pitted contact assemblies immediately.

Check assembly and mounting bolts for tightness.

 Immediately report any abnormal operation characteristics of the controller to the proper authority. **DO NOT** continue to operate the equipment until the problem is resolved.

Wiring

The Type S800A contacts utilize a saddle clamp type terminal. It is recommended when using bare copper wire that all terminal connections are re-tightened after a short interval to "cold flow" the conductor. Cold flowing the copper through re-tightening will insure a non-resistive connection.

Contacts and Cams

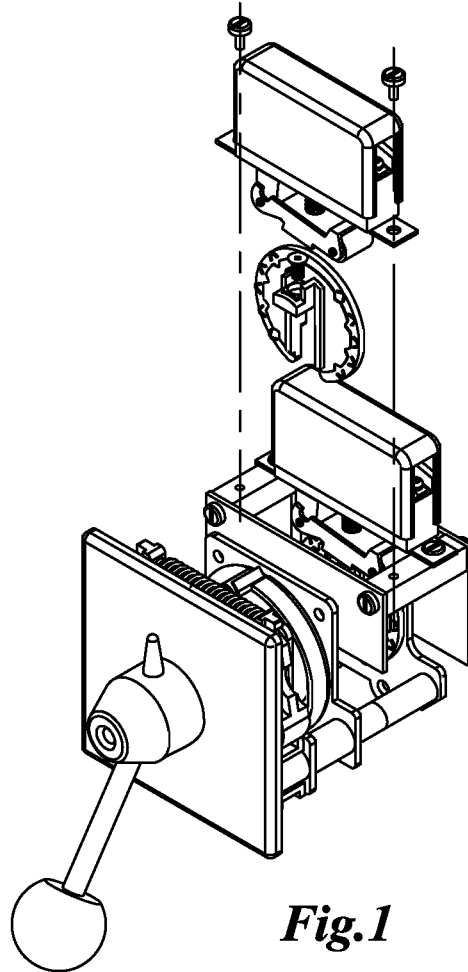
Cam operated contacts are field replaceable and can be change by removing the (2) screws holding the contact block to the mounting rails and lifting-up (see Fig.1). Reinstall by lining up the holes in the tab of the contact block with the holes in the mounting rails. Make sure the actuating arm of the contact block is oriented as was originally installed and as other contact blocks are mounted and that the roller of the actuating arm is centered on the cam. Test contact operation with an ohm meter for continuity. Apply a light film of grease to the roller of the actuating arm. If contacts are to be cleaned it is important to check compatibility of the contact cleaner with the contact block as some contact cleaners will destroy the plastics used in the contact block. Please contact factory before using a contact cleaner. If a contact cleaner can be used it is recommended that it be a low residue spray contact cleaner. (Never file or sand the contact tips).

Disclaimer

Rotary Master switches are normally supplied with deadman spring return to neutral. For safety reasons, a deadman control is recommended for application with maintained handle action. (Consult factory).

The customer is responsible for meeting OSHA compliance of deadman safety devices, providing operator safety and proper equipment use training, and for maintaining the equipment and controls in a safe working condition. Customer agrees to indemnify and hold J.R.Merritt Controls, Inc. harmless and defend at its expense, all claims and suits asserted or brought against J.R.Merritt Controls, Inc. due to the absence, removal, tampering, improper installation or improper use of this equipment and associated with deadman safety devices.

 **IMPORTANT:**
DISCONNECT ALL POWER
PRIOR TO SERVICING CONTROLLER



Contact DC Ratings

Inductive	10 amps @ 24 VDC
(with magnetic blowouts)	6 amps @ 48 VDC
T=30 Ms	1.0 amps @ 125 VDC
	0.6 amps @ 250 VDC

J.R. MERRITT 
CONTROLS, INC.

Stratford, CT • 1-800-333-5762 • www.jrmerritt.com