



Dry Contact Snap Switch Replacement Series B, C, D, F, O, Q, & S

Magnetrol level controls are available with a range of different switch mechanisms—each designed for specific service conditions. A brief description of the individual switch mechanisms and their applications are given below.

DRY CONTACT SWITCHES Series B, C, D, O, and S

Dry contact switches are specified in applications where mercury must be avoided.

- **B** Switches are general purpose units with a maximum liquid temperature rating of +250° F (+121° C).
- **C** Switches are general purpose units with a maximum liquid temperature rating +450° F (+232° C).
- **D** Switches are designed for DC current applications with a maximum liquid temperature of +250° F (+121° C).
- **O** Switches are used only in model C10 and C15 units with a maximum liquid temperature of +250° F (+121° C).
- **S** Switches are general purpose with a maximum liquid temperature rating of +550° F (+288° C) or designed for a DC current applications with a maximum liquid temperature of +400° F (+204° C) used only in model B40 units.
- **Q** Switches are used only in model C10 & C15 units with a maximum liquid temperature rating of +300° F (+149° C).

HERMETICALLY SEALED SWITCHES Series F

Hermetically sealed switches are for use in special applications where hermetically sealed contacts are required.

- **F** switches are well suited for use where the process temperature does not exceed +750° F (+399° C).



Series B, C, D, O, and Q
Dry Contact Switches



Series F
Hermetically Sealed Switch



Series S
Snap Switch

CAUTION: Before attempting to work on a switch mechanism, be certain to pull disconnect switch or otherwise assure that electrical circuit through control is de-energized.

REPLACING DRY CONTACT SWITCHES Series B, C, D, F, O, Q, and S

1. Disconnect switch leads from terminal block. Note and record terminal connections of switch to be replaced.
2. Remove two mounting screws holding existing switch, refer to Figure 1.
3. Remove existing switch and install replacement switch in the same position, tightening mounting screws securely.

NOTE: For proper operation of the replacement switch, it must actuate in the middle portion of the pivoted magnet's swing.

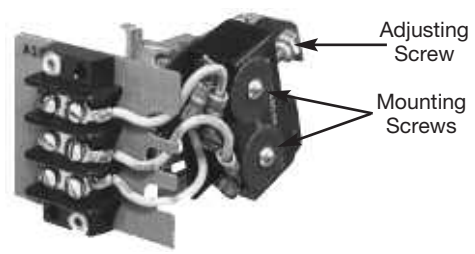


Figure 1

4. Check switch action and adjust as follows:
 - a. Slowly rotate the pivoted magnet by hand, back and forth through its angle of swing, listening closely for the actuating click of the switch in each direction.
 - b. Check to see if there is equal overtravel of magnet in its swing after the switch click in either direction.
 - c. If switch actuation is not correct, change adjustment of actuating screw using a 1/16" hexagon key wrench, refer to Figure 1.

NOTE: If a single switch is being replaced on a DPDT mechanism, lever of second switch must be depressed and held to allow for the audible adjustment of new switch, as described above.

- d. With new switch in adjustment, release lever of second switch and perform fine-tuning of both switches to provide simultaneous actuation (clicks).
5. Reconnect power supply and test switch action by varying liquid level in the vessel or by "blowing down" float chamber.

IMPORTANT

PRODUCT WARRANTY

All Magnetrol replacement parts are warranted free of defects in materials or workmanship for one full year from the date of original factory shipment.

If returned within the warranty period; and, upon factory inspection of the part, the cause of the claim is determined to be covered under the warranty; then, Magnetrol will repair or replace the part at no cost to the purchaser (or owner) other than transportation.

Magnetrol shall not be liable for misapplication, labor claims, direct or consequential damage or expense arising from the installation or use of equipment. There are no other warranties expressed or implied, except special written warranties covering some Magnetrol products.

QUALITY ASSURANCE

The quality assurance system in place at Magnetrol guarantees the highest level of quality throughout the company. Magnetrol is committed to providing full customer satisfaction both in quality products and quality service.



Magnetrol's quality assurance system is registered to ISO 9001 affirming its commitment to known international quality standards providing the strongest assurance of product/service quality available.

ASSURED QUALITY & SERVICE COST LESS

SERVICE POLICY

Owners of Magnetrol may request the return of a control or any part of a control for complete rebuilding or replacement. They will be rebuilt or replaced promptly. Controls returned under our service policy must be returned by Prepaid transportation. Magnetrol will repair or replace the control at no cost to the purchaser (or owner) other than transportation if:

1. Returned within the warranty period; and
2. The factory inspection finds the cause of the claim to be covered under the warranty.

If the trouble is the result of conditions beyond our control; or, is NOT covered by the warranty, there will be charges for labor and the parts required to rebuild or replace the equipment.

In some cases it may be expedient to ship replacement parts; or, in extreme cases a complete new control, to replace the original equipment before it is returned. If this is desired, notify the factory of both the model and serial numbers of the control to be replaced. In such cases, credit for the materials returned will be determined on the basis of the applicability of our warranty.

No claims for misapplication, labor, direct or consequential damage will be allowed.

LOW VOLTAGE DIRECTIVE

For use in Category II installations. If equipment is used in a manner not specified by the manufacturer, protection provided by equipment may be impaired.

RETURN MATERIAL PROCEDURE

So that we may efficiently process any materials that are returned, it is essential that a "Return Material Authorization" (RMA) number be obtained from the factory, prior to the material's return. This is available through Magnetrol's local representative or by contacting the factory. Please supply the following information:

1. Company Name
2. Description of Material
3. Serial Number
4. Reason for Return
5. Application

Any unit that was used in a process must be properly cleaned in accordance with OSHA standards, before it is returned to the factory.

A Material Safety Data Sheet (MSDS) must accompany material that was used in any media.

All shipments returned to the factory must be by prepaid transportation.

All replacements will be shipped F.O.B. factory.



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