

## Instruction Bulletin

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Raleigh, NC, USA

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### Spring Assembly Kit

For Class 9007 Types T and FT Limit Switches

Class 9998 2934-S925-G1

For All Types Except T-12 and FT-12 Maintained Contact Devices

#### DANGER

##### HAZARDOUS VOLTAGE

Turn off all power before servicing equipment.

**Failure to follow this instruction will result in death or serious injury.**

**For Surface Mounted Types: TU, TY, TS, and TX; FTU, FTS, FTY, and FTX**

#### DISASSEMBLY

1. Remove the five recessed, countersunk screws and remove the base plate. Remove the screw and remove the positioning plate. Remove the old spring from the positioning plate and install the new spring. Make sure that the spring arms locate correctly in notches on the tab of the positioning plate.
2. Remove the auxiliary cam stop. (The cam stop is not used on TS, TX, FTS, and FTX types.)
3. Remove the latch spring and withdraw the latches. Withdraw the lever assembly. Remove the retaining ring from the shaft and withdraw the hub. Push the shaft assembly through the case and withdraw it from the switch. Remove the old spring from the shaft assembly and replace it with the new spring. Make sure the spring arms locate correctly in notches on the cam.
4. Remove the switch cover. Remove the screw in the contact block to release the jumper lead on 3-point, double-throw types. Remove the two screws and withdraw the complete contact block assembly.
5. Remove the socket head screw on the movable contacts and remove the movable contacts assembly and cage. Remove the movable contact arm assembly and liner.



## REASSEMBLY

1. Reassemble the shaft assembly, making sure that there is freedom of movement and that the seal ring has not been displaced from its position. Install the new movable contact arm assembly.
2. Reassemble the lever assembly, making sure that the arms of the contact operating spring fit around the roller on the back of the lever assembly and have not been moved out of position. Replace the latches in the desired operating position and install the new latch spring. Assemble the positioning plate in the desired operating position and screw down one 8-32 UNC screw. Reassemble the hub and retaining ring to the operating shaft. Check for correct operation of the mechanism. Replace the auxiliary cam stop. (Not used on TS, TX, FTS, and FTX types.) Replace the base plate (one 10-24 UNC 1-1/8 inch screw and four 10-24 1/2 inch screws). Make sure that the nylon seal washer is fitted under the head of the 1-1/8 inch screw fitted at the top of the switch.
3. Fit the liner over the movable contact arm and press it into the switch body. Make sure the liner locates on the boss in the casting and does not impede the movement of the movable contact molding. Reassemble the movable contact assembly and screw it in place with the 8-32 UNC socket head screw, making sure that the nylon lock washer is fitted under the head of the screw.
4. Reassemble the contact block and screw it in place with the two 8-32 UNC screws. (On 3-point, double-throw types, pass the jumper leads through the opening in the contact block.) Connect the jumper lead to the center boss on the contact block.
5. Check operation and contact alignment. Replace the cover using four 10-24 UNC screws.

### For Flush Mounted Types: TA, TB, TC, and TD

Follow the above instructions with the following exceptions:

1. The retaining ring and hub must be withdrawn before the base plate can be removed.
2. The auxiliary cam stop is not used.
3. On reassembly, temporarily fit the hub and check for correct operation before reassembling the base plate.

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