

How to replace Paddle Arm Assembly (Part No. SA-FS7-4R or SA-FS7S-4R) McDonnell FS7 Series Flow Switches

(Please read all instructions carefully before starting work.)

Remove Paddle Arm Assembly

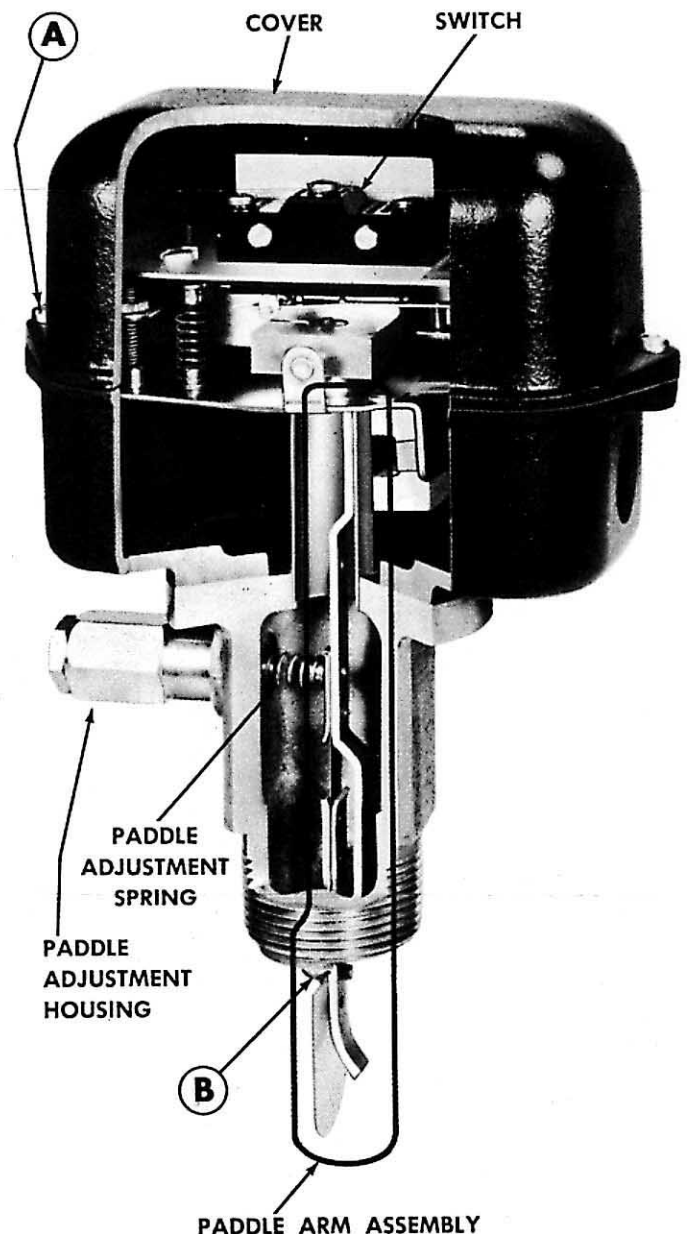
- 1 Cut off power to equipment.
- 2 Valve off, or if necessary drain pipe line in which switch is installed, to eliminate any danger of liquid flowing from opening when control is removed.
- 3 Remove cover screws (A) — two screws on FS7 and FS7-S, six screws on other models — and lift off cover.
- 4 Note position of electric wires, then disconnect them from switch. Remove wires and electrical conduit connections from switch housing.
- 5 Note direction of flow as indicated by arrow on control, and mark this direction of flow on pipe. Unscrew complete control from the line.

Caution: Do not turn control upside down. Any metal parts that fall inside sealing tube may be attracted to magnet and may be difficult to remove.

- 6 Lay flow switch on its side, and unscrew paddle adjustment housing. Paddle arm adjustment spring should back out with it.
- 7 Remove two screws (B) and slide out paddle arm assembly.

Replace Paddle Arm Assembly

- 8 Insert new paddle arm assembly and replace two screws (B).
- 9 Make sure paddle arm adjustment spring is pressed tightly in position inside paddle adjustment housing, then screw this assembly back in place and tighten securely with wrench.
- 10 Manually check operation of unit by moving paddle.
- 11 Screw complete control back in pipe line, making sure that in final position arrow on flow switch matches flow in pipe.
- 12 Replace electrical conduit connection and reconnect wires to switch terminals.
- 13 Replace cover and screws (A).
- 14 Test unit for proper operation.



ITT McDonnell & Miller
ITT Fluid Technology Corporation