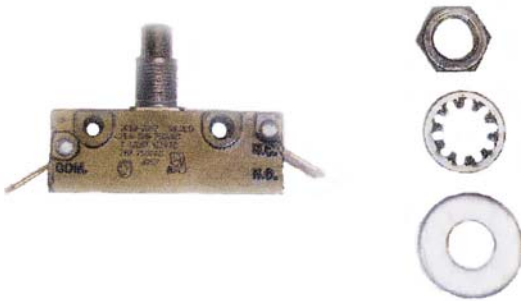


SERVICE BULLETIN

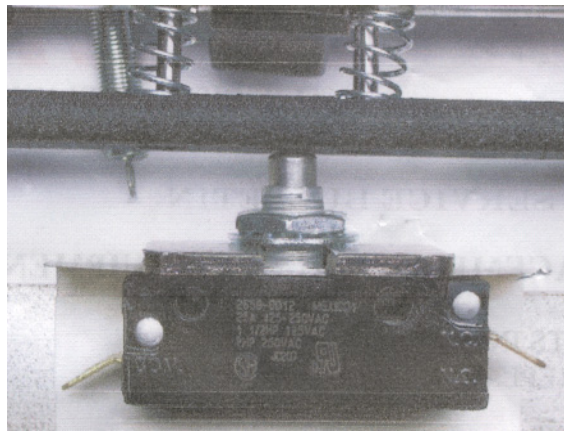
Switch replacement on all Crusader Floor Machines

Parts Included with your replacement switch:



1 Switch
1 Flat Washer
1 Hex Nut
1 Star Lock Washer

1. Tools Required:
 - a. Phillips Screwdriver
 - b. 9/16" Open End Wrench
 - c. Needle Nose Pliers
2. Be sure the machine is unplugged.
3. On the standard speed machines (175 RPM, 175/300 RPM), remove the pad driver.
4. On high speed machines (1500/2000 RPM), tip the machine back on its rear wheels (Transport and storage position).
5. Using a Phillips screwdriver, remove the 2 screws just below the warning label on the rear of the switchbox cover and pull the switchbox cover up to remove it.
6. Using needle nose pliers, unplug the 2 spade electrical terminal connectors from the handle switch.
7. Using a 9/16" open end wrench, loosen the hex nut and remove the old switch.
8. The machine is now ready for the New Switch Installation



9. To install the new switch, slide the new switch in to place, install the flat washer first, then the locking star washer, and finally the hex nut.
10. Using a needle nose pliers, push the spade electrical terminal connectors onto the terminals on the switch.
11. Do NOT replace the switch cover yet!
12. When installing the new switch, it is important that the proper spacing between the switch and the handle is maintained. Proper spacing is achieved when the handle is pulled, which releases the plunger in the switch to turn the machine on. When the handle is released, the plunger on the switch gets pushed back in to turn the machine off.
13. It may be necessary to put a flat washer in between the switch bracket and the switch. This is only if the machine won't turn on.

Troubleshooting

The machine operates without pulling the handle:

The switch is set too low and should be moved up. This is done by removing the washer from between the switch and the switch bracket and replacing it with a thinner washer or no washer at all.

The machine will not turn on when the handle is pulled:

The switch is set too high and needs a thicker washer added between the switch and the switch bracket.

14. Now that the switch is adjusted properly, you can now put the switch box cover back on and secure it with the 2 screws.

Property of:

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