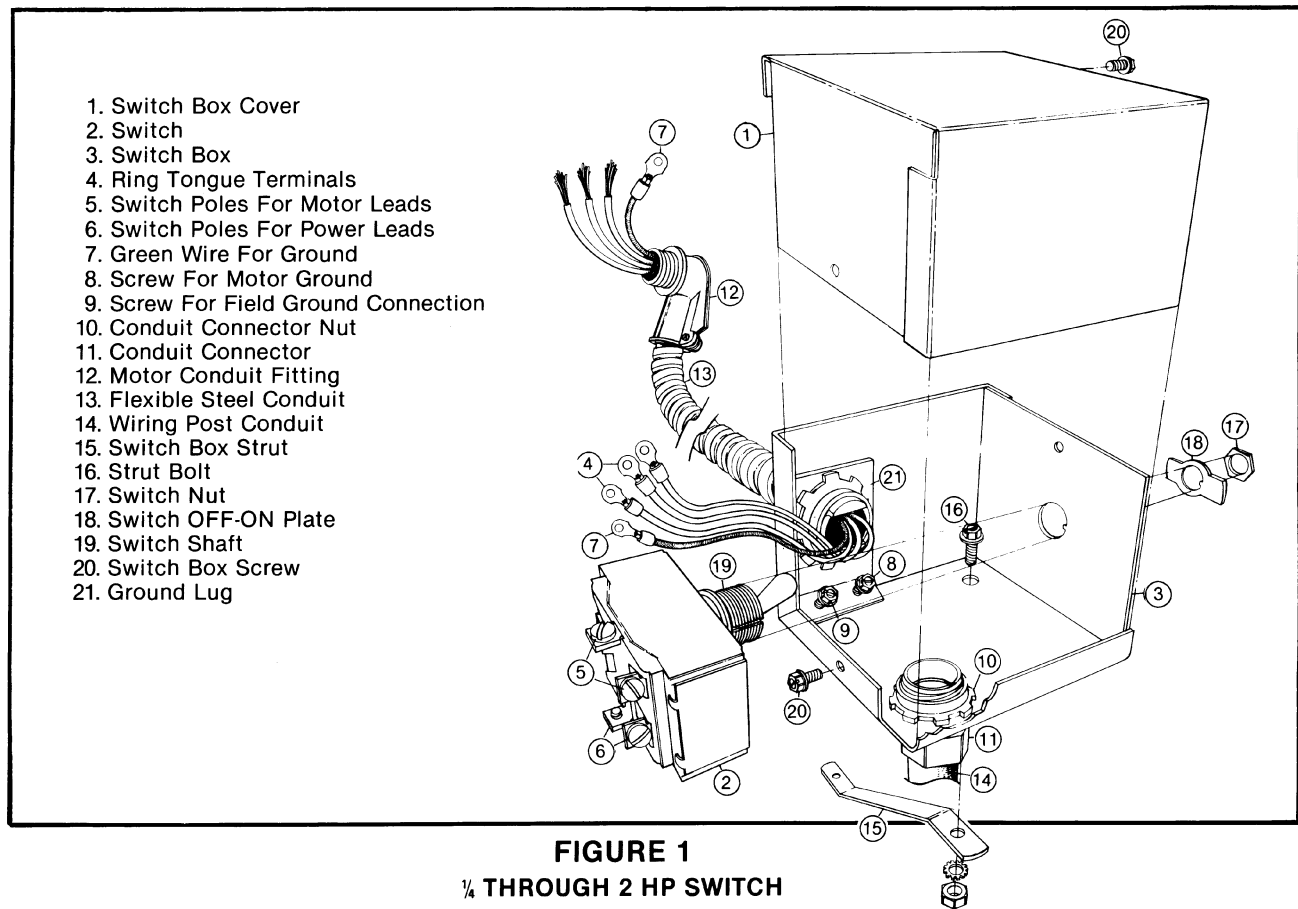




# SAFETY SWITCH INSTALLATION

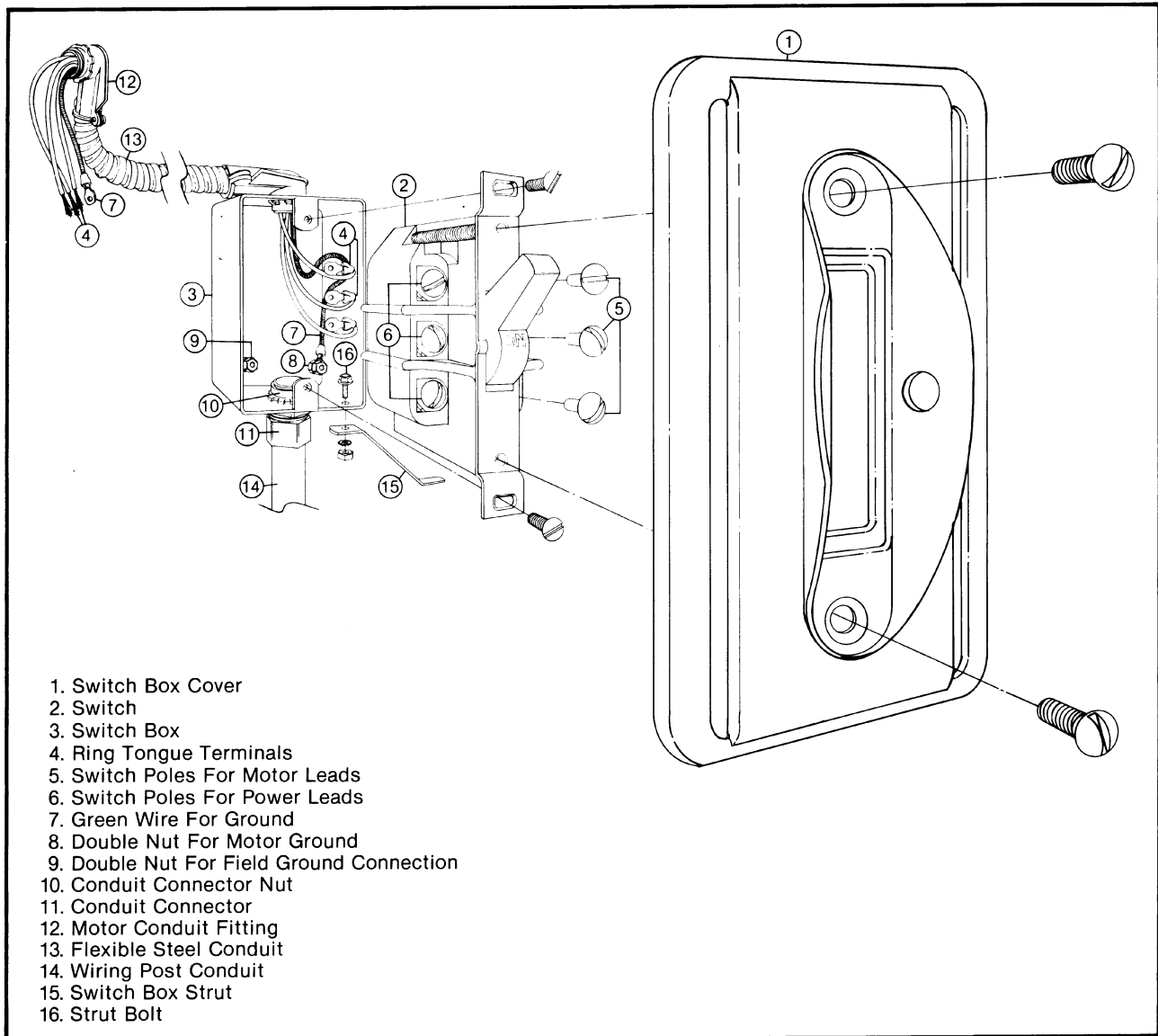
## For all Motors thru 2 HP (See Figure 1):

1. Remove cover (1) on galvanized switch box (3) to expose wiring to motor. With most toggle switches, wiring connections are more easily made before the switch has been mounted to the switch box. Three wires are included for use on three phase motors. If a single phase motor is being used, one of the wires must be discarded or have the ends taped off.
2. The ring tongue terminals (4) on the wires from the motor should be fastened to the poles on one side of the switch (5), two poles for single phase or three poles for three phase. The field wiring connections may also be made at this time to the poles on the other side of the switch (6).
3. For grounding purposes (to meet CSA or other local codes) the green ground wire from the motor (7) is to be fastened to one side of the ground lug (21) using one of the #8-32 machine screws (8) provided for this purpose. The other machine screw (9) is furnished for connection to the field ground conductor.
4. The  $\frac{1}{2}$  inch hex nut (17) and OFF/ON plate (18) must be removed from the switch shaft (19) before insertion into the mounting hole. Align keyway on switch shaft with the key tab in the mounting hole, insert, place OFF/ON plate on shaft and secure whole assembly with the hex nut.
5. The motor end of the wiring has been left without electrical fittings because the electrical connections for three phase motors differ from those on single phase motors. The small parts bag enclosed in the drive package contains electrical connectors for both single phase and three phase motors. For single phase motors, two flag terminals from the parts bag must be crimped onto the two wires. Insulated wire joints are also provided in the parts bag for use on three phase motors. Extra wire joints are for use in making inter-connections at the motor junction box when dual voltage motors are encountered.
6. The wiring diagram on the side of the motor must be consulted when making wiring connections.



**For Motors 3 HP thru 7½ HP (See Figure 2)**

1. The switch for these motors is larger than the toggle switches used in the description on page 1 and is contained within its own box (3).
2. The small galvanized box must be removed from the wiring post. This is done by loosening and removing the conduit fitting nut (10) inside the box. A strut (15) has been provided with the small switch box to prevent its rotating on the wiring post. This strut must be unfastened at its bottom connection to the fan body. The box is then easily lifted from the conduit fitting.
3. Remove the cover plate (1) and switch (2) from the larger box and mount the box on the wiring post (14) using the bottom knock-out. The same conduit nut (10) is to be used to secure the box in place.
4. For grounding purposes (if needed to meet CSA or other local codes) two bolts and double nuts are provided in the back of the switch box. The green ground wire (7) is to be fastened to the box using one of the double nuts (8). Another bolt and double nut (9) is provided for field ground connection.
5. All wiring connections should then be made to the switch, using the procedure as described in the second paragraph, page 1. Wiring from the motor is connected to the three poles on one side of the switch (5) and power wiring is to be connected to the three poles on the other side of the switch (6).
6. The strut that was removed from the smaller galvanized steel box must be replaced on the larger box using the bolt (16) that fastened it to the smaller box. A hole has been provided in the bottom of the large box for this purpose. A ¼ inch hole may have to be drilled into the fan body to allow fastening of the lower end of the strut.
7. The switch can now be replaced into the box and the cover mounted over it.



1. Switch Box Cover
2. Switch
3. Switch Box
4. Ring Tongue Terminals
5. Switch Poles For Motor Leads
6. Switch Poles For Power Leads
7. Green Wire For Ground
8. Double Nut For Motor Ground
9. Double Nut For Field Ground Connection
10. Conduit Connector Nut
11. Conduit Connector
12. Motor Conduit Fitting
13. Flexible Steel Conduit
14. Wiring Post Conduit
15. Switch Box Strut
16. Strut Bolt

**FIGURE 2**  
**3 HP THROUGH 7½ HP SWITCH**