


# Instruction Sheet for Broken Belt-Switch Connection to Motor Thermal Protector

<b>⚠ WARNING</b>	
	<p style="text-align: center;"><b>Electrical Shock Hazard</b></p> <p><b>Disconnect power before servicing.</b> <b>Replace all parts and panels before operating.</b> <b>Failure to do so can result in death or electrical shock.</b></p>

1. Unplug dryer or disconnect power.
2. Gain access to motor.
3. Determine which type Broken Belt Switch connector the dryer has. See *Figure 1A* and *Figure 1B*.

**IMPORTANT:** This replacement service motor has a new design Over-Temperature Protection device (Thermal Protector) attached to the centrifugal switch that may differ from the previous design of the motor to be replaced. The new Thermal Protector has a new terminal location which may cause the wire lead from the Broken Belt Switch (with the straight connector) to come in contact with the motor bracket. Included with this motor is a small piece of split loom tubing. This tubing is to be placed on the wire lead from the Broken Belt Switch as shown in *Figure 1A*.

**IMPORTANT:** The Broken Belt Switch has been altered on newer motor models. If this replacement motor is to be replaced on one of these models, the tubing will not be required. Refer to *Figure 1B* showing the new design and verify that the wire leads will not come in contact with the motor bracket before discarding the tubing. Note the orientation of the flag connector attached to the new Thermal Protector terminal location.

4. Replace Motor, attach tubing supplied in kit if the wire lead from the Broken Belt Switch has a straight connector. See *Figure 1A*.
5. Replace all parts and panels.

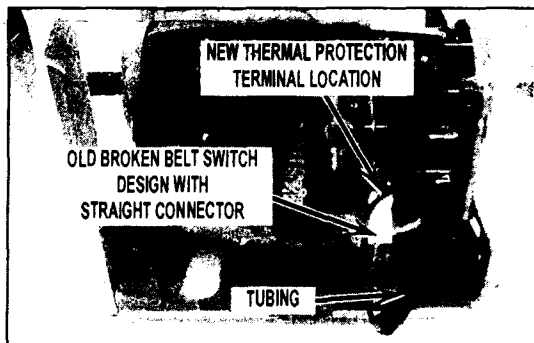



FIGURE 1A



FIGURE 1B

<b>⚠ WARNING</b>	
	
<p><b>Electrical Shock Hazard</b></p> <p><b>Plug into a grounded 3 prong outlet.</b> <b>Do not remove ground prong.</b> <b>Do not use an adapter.</b> <b>Do not use an extension cord.</b> <b>Failure to follow these instructions can result in death, fire, or electrical shock.</b></p>	

6. Plug in dryer or reconnect power.

# INSTALLATION AND WIRING INSTRUCTIONS

## for Pluggable Motor Replacement

### ! WARNING



#### Electrical Shock Hazard

Disconnect electrical power before servicing.  
Failure to do so can result in death or electrical shock.

#### This Kit Contains:

- 1 Motor Assembly
- 2 1/8" Female Terminals (Insulated)
- 1 Sheet, Instruction

**NOTE TO THE INSTALLER:** This motor kit is an authorized FSP service replacement part for your application. The motor in this kit may or may not be identical to your old motor. If your current motor has the pluggable motor switch, replace the service motor in the same manner as you removed your defective motor. If your defective motor has the switch where the wire lead from the main harness connects to the motor switch individually, carefully follow instructions below.

### ! WARNING



#### Fire Hazard

Do not under any circumstances attempt to remove or replace the motor switch from this pluggable service motor. The switch is a non-serviceable component.

Failure to do so can result in death, serious injury, or fire.

- 3. Remove pulley from replacement motor by using two (2) open end or adjustable wrenches. Place one on the motor shaft, right behind the pulley, and the other on the pulley. Holding the motor shaft in place with one (1) wrench, turn pulley with other wrench in counterclockwise direction to remove pulley. See Figure 1.

## PULLEY REPLACEMENT

- 1. Remove defective motor using standard motor removal procedures.
- 2. Compare motor pulley on defective motor and replacement motor. Pulley supplied with replacement motor may be smaller than the defective motor. If pulley on defective motor is larger in size, remove pulley and install on replacement motor.

**NOTE:** Pulley supplied with the replacement can be used in all applications, but may increase drying time when not replaced in *commercial* applications.

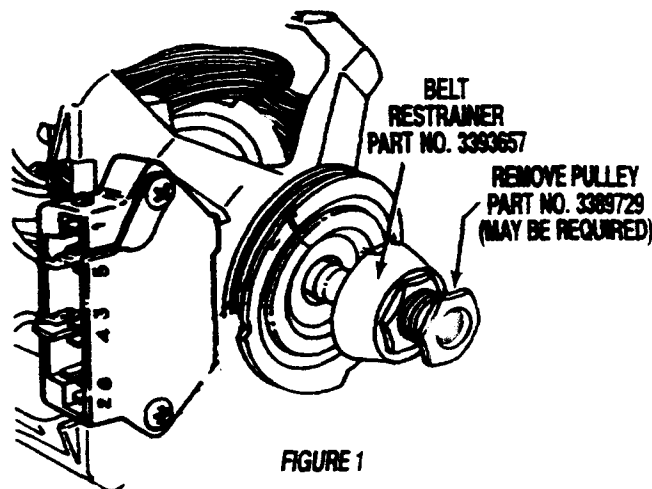


FIGURE 1

Remove defective motor using standard motor removal procedures.

Compare and note the difference between the defective motor switch of the defective motor and the switch of the new replacement motor. If the switches are the same, simply install the motor in reverse order you've removed the defective motor. See Figure 2.

**NOTE:** Overload protector is part of the switch on the replacement motor and separate on the defective motor.

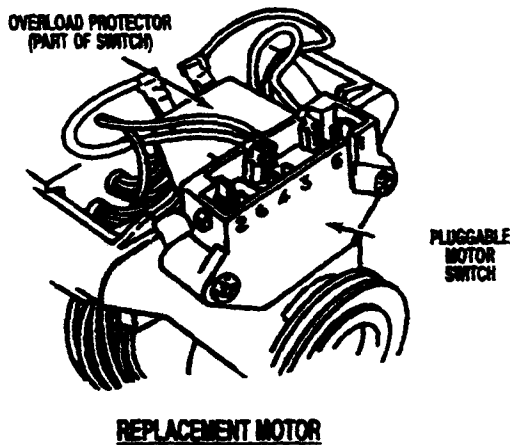


FIGURE 2

- Position motor as shown in Figure 3. Note the location of the motor switch. Secure motor to bracket with the original motor clamps.

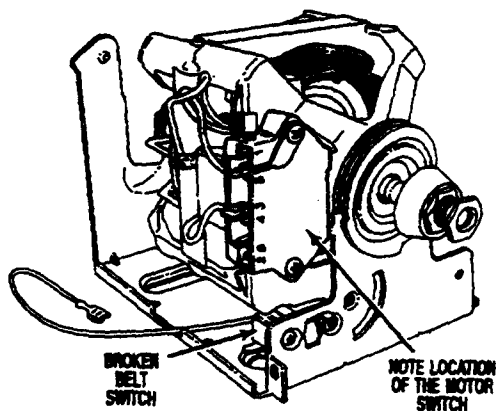


FIGURE 3

## WIRING INSTRUCTIONS

**NOTE:** Read and follow instructions carefully. If the unit you are replacing the motor on has the option which included the momentary switches for the drum, proceed to section title **WIRING INSTRUCTIONS—MOMENTARY SWITCH APPLICATION**; otherwise, proceed to step 4.

- Connect the blue (4M) wire lead from the broken belt switch to the vacant terminal located on the back of the overload protector of the motor switch. See Figure 4.
- Connect the red (1M) wire lead to the 1/4" terminal marked "1" on the motor switch. See Figure 4.
- Connect the red (2M) wire lead to the 1/4" terminal marked "2" on the motor switch. See Figure 4.
- Connect the yellow (BK2) wire lead to the vacant terminal on the broken belt switch. See Figure 4.
- To connect the black (6M) wire lead and the white (5M) wire lead to the motor switch, you must replace the 1/4" female terminals with the 1/8" insulated female terminals included with the replacement motor.

**NOTE:** If your unit does not have a black (6M) wire lead, disregard any instructions referring to the black (6M) wire.

- Cut the 1/4" female terminal from the black (6M) and white (5M) wire leads as close to the terminal as possible with wire cutters.
- Strip wires back approximately 1/4 of an inch.
- With barrel crimpers, crimp 1/8" insulated female terminals, included with motor, onto the wire leads.

**NOTE:** Make sure terminals are crimped securely in place.

- Connect the white (5M) wire lead from main harness onto the 1/8" terminal marked "5" on the motor switch. See Figure 4.
- Connect the black (6M) wire lead onto the 1/8" terminal marked "6" on the motor switch. See Figure 4.

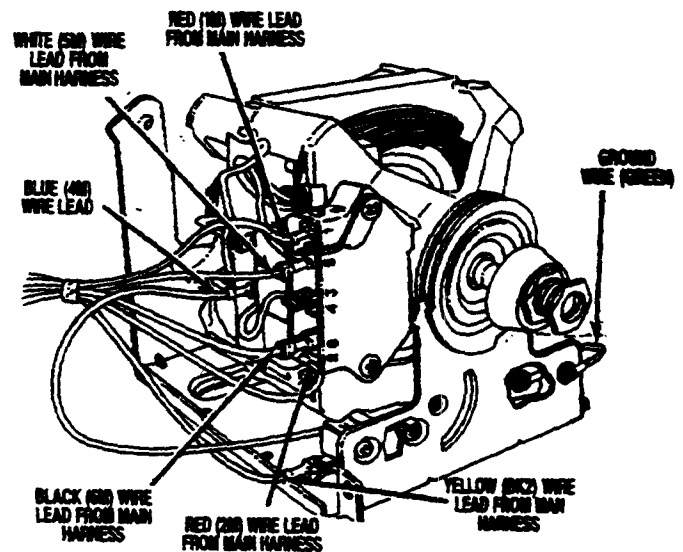


FIGURE 4

- Reconnect ground wire to motor. See Figure 4.
- All wire lead connections are complete at this point, you can now reinstall the motor and bracket assembly into the unit.

## WIRING INSTRUCTIONS — MOMENTARY SWITCH APPLICATION

1. Connect the blue (4M) wire lead from the broken belt switch to the vacant terminal located on the back of the overload protector of the motor switch. See Figure 5.
2. Connect the red (1M) wire lead to the 1/4" terminal marked "1" on the motor switch. See Figure 5.
3. Connect the red (2M) wire lead to the 1/4" terminal marked "2" on the motor switch. See Figure 5.
4. Connect the yellow (BK2) wire lead to the vacant terminal on the broken belt switch. See Figure 5.
5. To connect the purple (3M) wire lead and the white (5M) wire lead to the motor switch, you must replace the 1/4" female terminal with the 1/8" insulated terminals included with the replacement motor.
6. Cut the 1/4" female terminal from the purple (3M) and white (5M) wire leads as close to the terminal as possible with wire cutters.
7. Strip wires back approximately 1/4 of an inch.
8. With barrel crimpers, crimp 1/8" insulated female terminals, included with motor, onto the wire leads.  
**NOTE: Make sure terminals are crimped securely in place.**
9. Connect the white (5M) wire lead onto the 1/8" terminal marked "5" on the motor switch. See Figure 5.
10. Connect the purple (3M) wire lead onto the 1/8" terminal marked "3" on the motor switch. See Figure 5.
11. Reconnect ground wire to motor. See Figure 5.
12. All wire lead connections are complete at this point. You can now reinstall the motor and bracket assembly into unit.

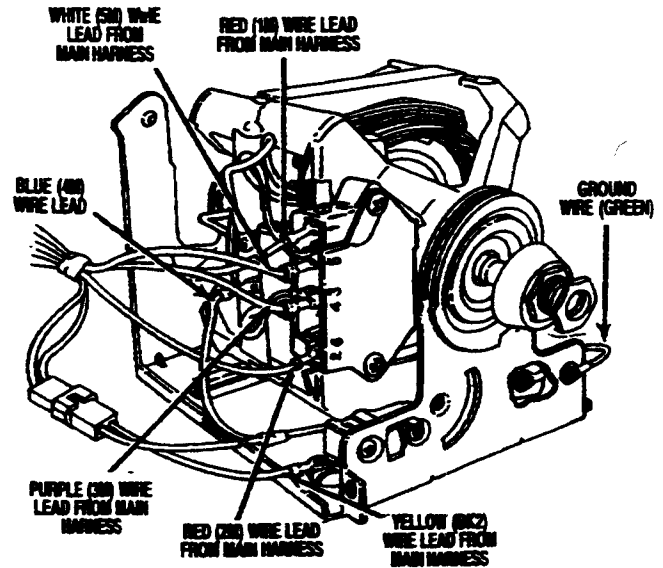


FIGURE 5