

Motor Assembly

The motor assembly consists of a reversible, variable speed, 3-phase induction DC motor, and sensor. The motor drives the tub drive pulley with a 7-rib belt. The sensor monitors motor rpm and is connected to the control board. The motor assembly is checked from the front of the washer and removed from the rear. There are 2 methods to check the motor assembly.

Method A:

Remove the service panel. (See **Service Panel removal**.)

Disconnect the motor wire harness.

On the motor plug, check for an approximate resistance value of 6 ohms between any two of the three wires:

Blue to white – 6 Ω

Blue to red – 6 Ω

White to red – 6 Ω

The sensor has a resistance value of approximately 118 Ω between the two orange wires.

Operation of the motor assembly can be checked by using service test modes t10, t11, and t14.

Specific failures associated with the motor assembly can initiate error codes E42, E48, and E49.

Method B:

Remove the service panel. (See **Service Panel removal**.)

Remove the single Phillips-head screw that holds the right front leg of the inverter to the base pan.

Slide the inverter rearward to clear the guides that hold the rear of the inverter to the base pan.

Position the inverter to access the inverter board.

On the inverter board, check for an approximate resistance value of 6 ohms between any two of the three terminals:

A to B (Blue to white) – 6 Ω

A to C (Blue to red) – 6 Ω

B to C (White to red) – 6 Ω



Note: The sensor and sensor wiring can be checked at the control board. Check for a resistance value of approximately 118 Ω resistance between the 2 yellow wires located on the wire harness located at P9.

To remove the motor:

Remove the 4 Phillips-head screws from the cabinet rear cover.

Pull the cover outward from the middle.

Remove the belt by turning the tub drive pulley and rolling the belt off the pulley.

Note: The belt is elastic and is designed to be removed and installed in this manner.

Remove the 1/2-in. bolt from the threaded plate that holds the motor arm to the outer tub.



Note: The threaded plate can fall out of the recessed slot in the motor mount. Ensure this plate is reinserted in the slot upon reassembly.

Note: When reinstalling bolt, apply Locktite (Part # WX5X1005) to bolt threads. Ensure motor arm is at lowest position under motor bolt before tightening.

Rock motor rearward to clear the motor mounts from the outer tub. Place the motor on the washer chassis.

Disconnect the motor wire harness.

Press the lock tab and remove the motor ground wire.

Remove the plastic wire tie that holds the motor wire harness and ground wire to the motor.

Remove the motor.

Note: When reinstalling the belt, ensure the belt is positioned to track in the 7 outer grooves of the motor pulley.

