



Locked Rotor State Test for
Control Boxes 909510000,
909510001, 1510000140
1510000158, 1510000172

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#82-ST0503, Rev. OA

NOTE

Locked Rotor State

The control box provides operational power to start, stop and reverse the motor. Current sensing determines the end-of-cycle.

A secondary time-out feature stops the motor in the event that the control does not reach and sustain the current limit.

After the step current limits or times out, the step control will electrically lock the motor's rotor. The control will remain in the locked rotor state until the next step actuation signal conditions are met.

Read, understand and follow these instructions.

This test will check for the control box being in the Locked Rotor State. This is when the control box does not send out voltage to the step motor on the 2 wire motor plug.

Perform the testing of the 4-way connector in Kwikiee Step Control Testing Procedures document # 82-ST0500 before proceeding with this test.

Unlocking the step control box from the Locked Rotor State.

Step 1: Unplug the 2 step control plug from the motor.

Step 2: Verify the step lockout switch is in the correct position (no voltage on the white wire) for this test. This is verified by checking the white wire at the 4 way connector for voltage, if there is voltage move the switch to the other position and recheck.

Step 3: Using a voltmeter set on DC Voltage, check for voltage on the 2 pin step control plug that was unplugged in Step 1. There will be voltage on the red lead and ground on the yellow lead during step extension (door open) and it will be reversed on step retraction (door closed).

Step 4: Cycle the entry door open and closed a minimum of 6 cycles, pausing 3-5 seconds between each complete cycle. This gives the step control internal relays enough time to reset.

Step 5: When voltage is detected on the 2 pin motor plug the step control box is now out of the Locked Rotor State. Plug the 2 pin step control plug back into the motor.

If after the 6 cycles there is still no voltage detected on the 2 pin connector, replace the control box.

Additional Reference Publications Located At WWW.POWERGEARUS.COM

Document #	Manual #	Description:
1422279	888	Electric Step Owner's Manual # 888
82-ST0501		Step Identification Guide Tip Sheet
82-0502		Removal and replacement of the step motor for 9010000462, 9010000464, 9010000465 and 9010000466 Revolution Series
30100002262		Owner's Manual for Revolution Series Steps with control boxes 1510000140 and 1510000172

