

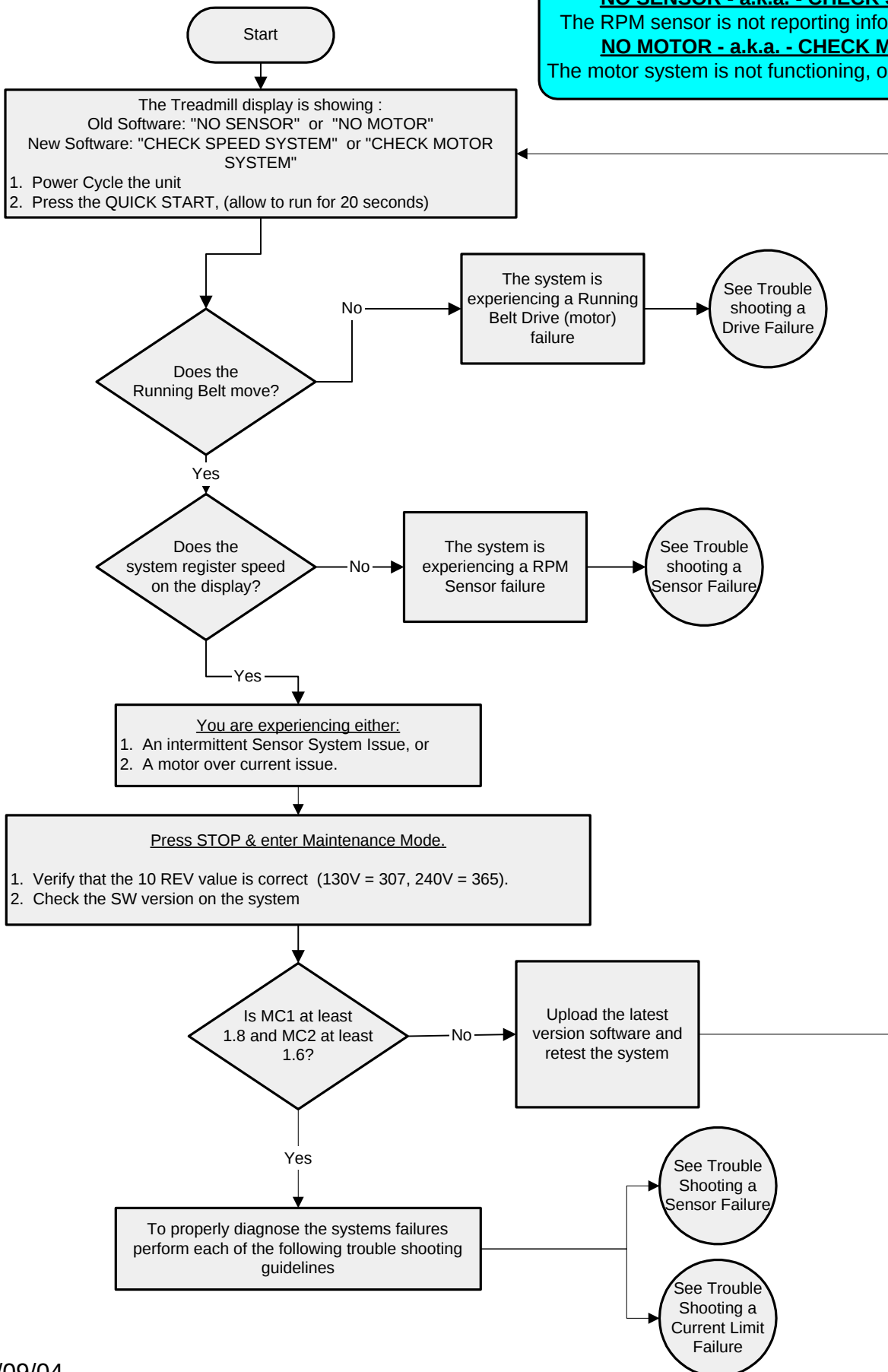
Display Code - NO SENSOR/MOTOR (DC Motor Treadmills)

NO SENSOR - a.k.a. - CHECK SPEED SYSTEM

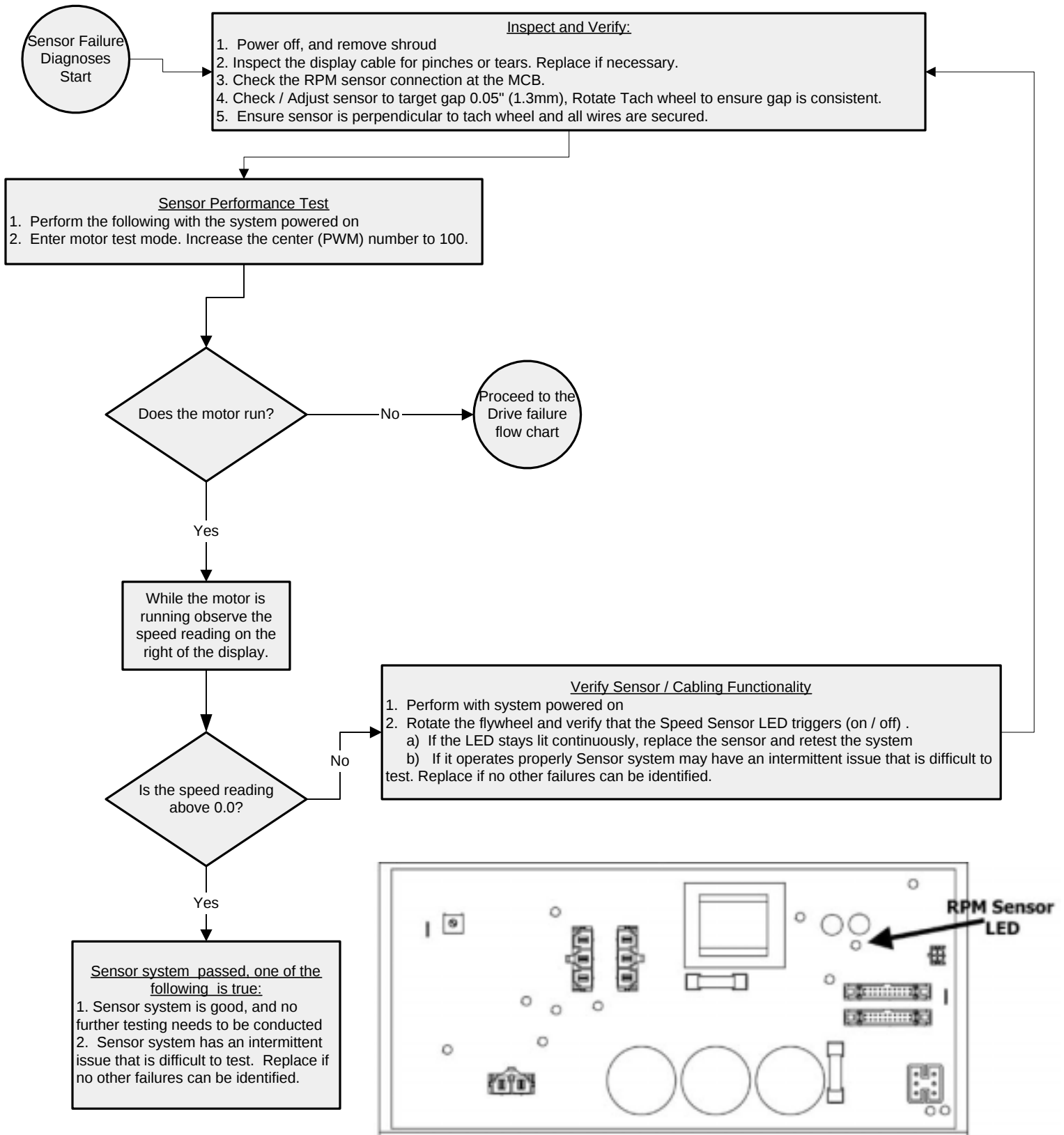
The RPM sensor is not reporting information to the Display

NO MOTOR - a.k.a. - CHECK MOTOR SYSTEM

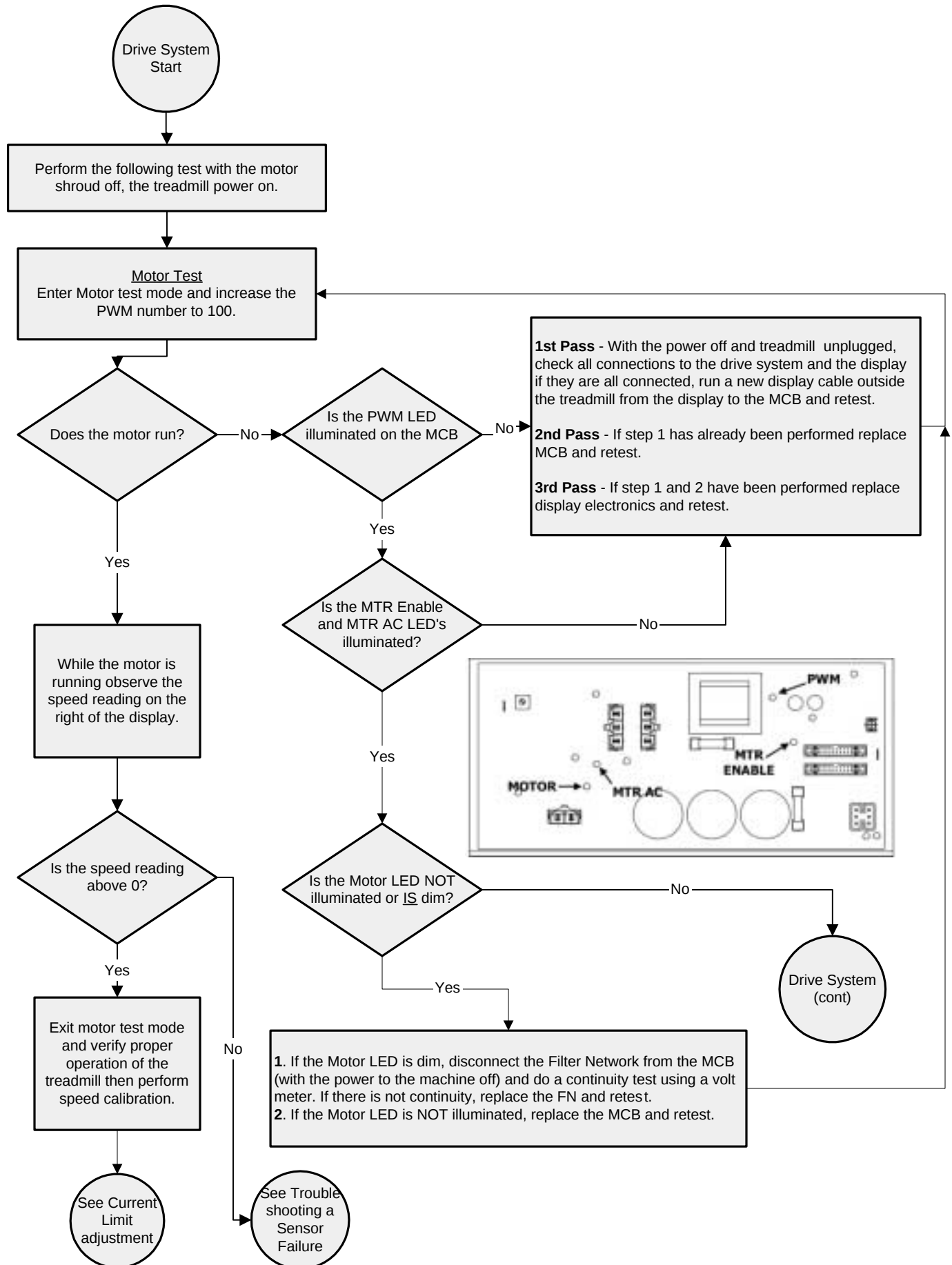
The motor system is not functioning, or has hit its current limit



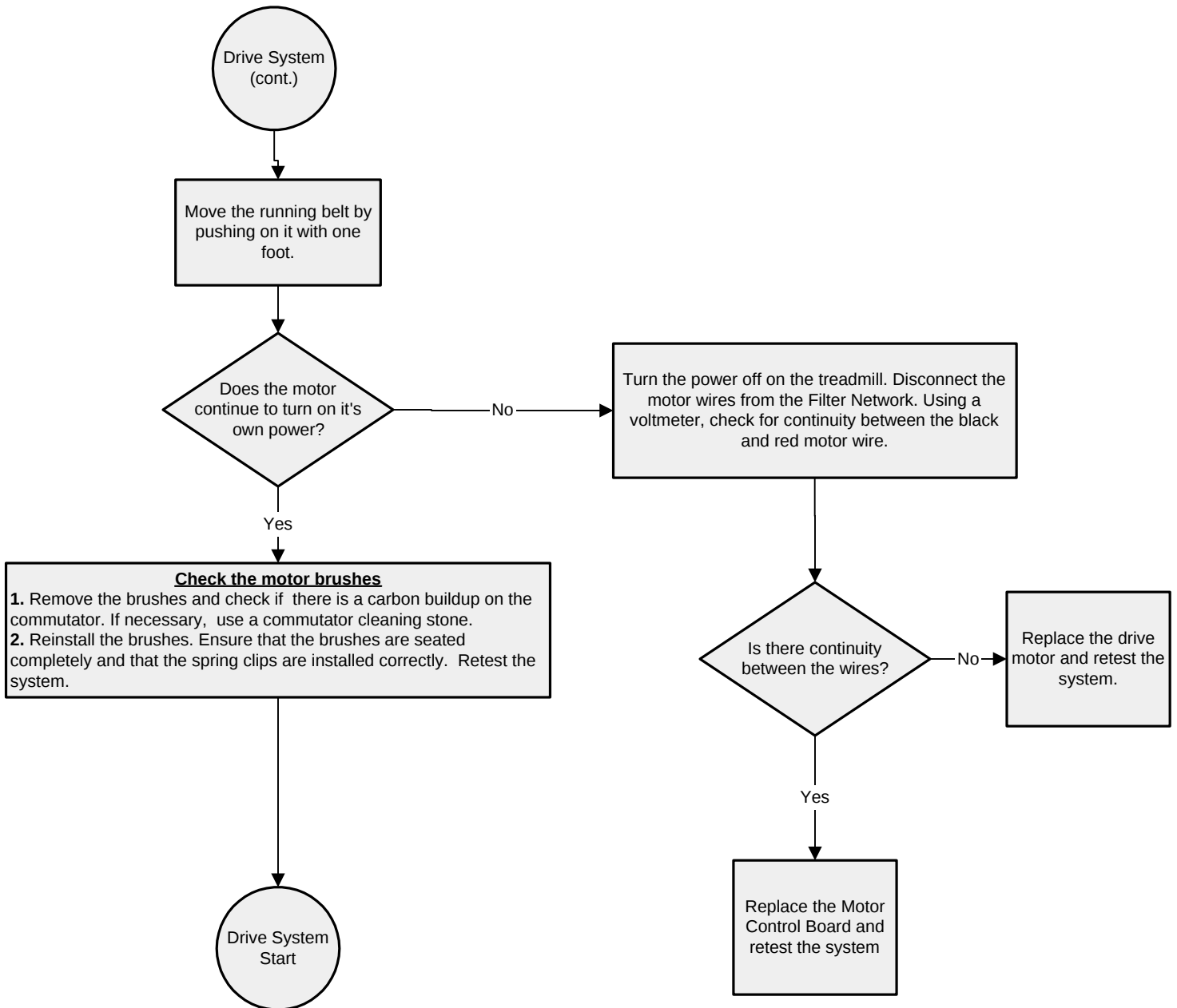
Trouble Shooting A Sensor Failure



Trouble Shooting A Drive Failure



Trouble Shooting A Drive Failure (cont.)



Trouble Shooting A Current Limit Adjustment

Current Limit Failure Start

Verify Failure Mode:

1. Remove Shroud, watch the i-Limit light while performing the following
2. Run on system at 6.0 - 8.0 mph
3. Forcibly run against belt direction in order to stall system (this is easier for heavier users), and notice that i-Limit light triggers
4. Continue to do this until system completely shuts down (IF POSSIBLE)

NOTE: Current Limit issues typically are a contribution of all of the items listed on this page. All items should be checked and optimized to ensure a thorough resolution

NOTE: How "easy" a system stalls out is perceived differently from one user to another, however all treads can be stalled out. If the tread has a history of this failure, then it is likely that the system needs to be optimized

Could you stall out the system?

No

You do not have a current limit Issue

Go Back to Main Flow Chart

Yes

Check System input line voltage (check at peak club usage times)

130V Systems : 110V or Greater (the higher the better!)
240V Systems: 208 volts or Greater (the higher the better!)

Check Belt and Deck Wear

Worn out, cracked, torn, unwaxed belts and decks are the #1 issue for excessive current draw.

1. Is the deck and belt too old and worn?
2. Has the deck and belt been maintained on a regular basis?
3. Look for defects (divots, tears, seam split, etc.)

Option 1: Service - Wax Belt and Deck

Option 2: Replace Belt and Deck - (PSB0331)

Check Running Belt Adjustmet

1. Proper Belt tension (Tight belts will draw higher current)
 2. Ensure belt is tracking straight and centered
 3. Enter MTM, increase the PWM to 100. Document the number under the distance window before and after adjusting the belt.
- Note: The numbers will fluctuate. Document the range from largest to smallest. i.e. Range is .11 - .16

Option 1: Loosen each tension screw on the tailroller by 1 1/2 turns. Ensure that the belt is not too loose and slipping.

Option 1: Adjust drive belt tension to minimize current draw

Check Motor Drive Belt Adjustmet

1. A tight belt can cause an additional amp of current draw.
2. Tension will increase as mount bolts are tightened.
3. Belt tension should not exceed 90 lbs.

Option 1: Adjust IR Comp to optimize current draw vs system performance. Clockwise pulls additional current, counter-clockwise reduces current draw. Turn the IR Comp completely counter-clockwise.

IR Comp Potentiometer Adjustment

The IR Comp Pot adjusts the resistance in the motor circuit. Less resistance (counter-clockwise) will help reduce the over current issue. However, it will also reduce the start up torque of the system, which could lead to stalling during start up .

Retest the system. If the current limit issue continues please contact Star Trac Product Support.

