AM-50, AM-500, MTS-40 Moto-Inverter Trouble Shooting Guide

NO ROTATION any direction: Check for 120vac supply voltage across N and L1 on the Motor Drive Board. Do you have voltage?

Yes

Using a Volt meter, check for 120vac across U & V, V & W, and U & W at the motor board while engaging the micro-switches In forward low, forward high, and reverse directions. Do you have voltage on all three in all directions?

Yes

Replace the Motor/board combo, Retest the system.
AM-50 & 500 - **part# 5-103599.**
MTS-40 - **part# 5-103622**

NO

Check the power cord for continuity. Check the wall outlet for supply voltage. Correct any issues and retest the system.

NO

No rotation in one direction. Start Here

Using an Ohm meter, check for continuity on the following pins of X4 while engaging the corresponding micro-switch. Do you have continuity on all three?
1 & 4 – Forward low speed.
2 & 4 – Forward high speed.
3 & 4 – Reverse.

Yes

Replace the motor board, Retest the system.
AM-50, AM-500 - **Part # 4-111585**
MTS-40 **– part# 4-111584**

NO

Disconnect the wires from the switch that did not have continuity. Check for continuity across the two pins on the switch while engaging it. Do you have continuity?

Yes

Check the micro-switch cable between the motor board and the micro-switch for a bad connection, break, or short. Repair the issue and retest the system.

NO

Replace the micro-switch(s). Retest the system.
Part # 440874