

## MOTOR DRIVE CIRCUITRY TEST

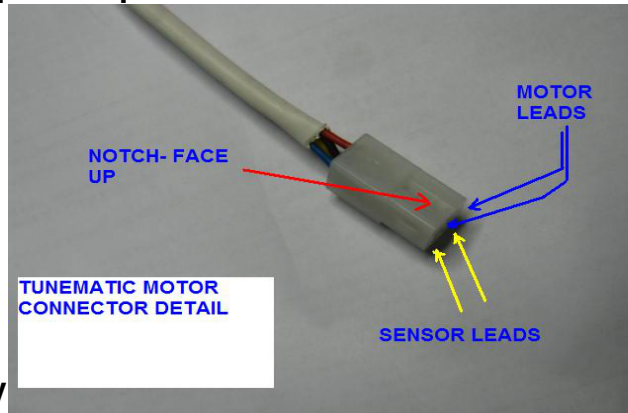
This document details testing the TuneMatic *motor drive circuitry*. Locate the motor connector (as identified in the photo below), and hold as shown in the diagram. Identify the MOTOR POWER LEADS in the photo (top set of pins on motor connector with notch facing UP).

For all models:

1- Disconnect motor cable from antenna at TuneMatic end.

2- Turn off TuneMatic unit.

3- Locate a voltmeter capable of reading up to 20v DC. Verify polarity on meter (+=positive voltage).



4) Connect voltmeter across pins on the MOTOR LEADS (EACH SIDE of the notch) on the motor connector. **Verify that the POSITIVE lead is connected to the LEFT side of the connector pins, as viewed in the photo above.**

5) Turn TuneMatic unit on, and press the UP button. Observe the meter for a reading approx 4-5v DC, then it should increase to approx 12v after 4-5 seconds of holding the UP button.

**Note: do not hold the button for more than 15 seconds, or you will get a pulse error, and will have to cycle power to re-start this test.**

6) Release the UP button, and press the DOWN button. Observe the meter for a reading of NEGATIVE voltage (reverse in polarity on the reading), as in step (2) above.

7) If steps 1-3 above FAIL, please contact factory for further instructions.