EzGo PDS Controller Bench Test Procedure

1. Preparation: Disconnect all wiring connections to the controller. Discharge the internal capacitors by briefly shorting the B+ and B- blades together using a screwdriver.

2. Inspection: Look for any burned or corroded contacts particularly in connectors **J1** (10 pin) and **J3** (square 4 pin). If possible, remove the plastic cover and look for burned parts inside the controller.

3. Continuity Test: Use an ohm meter to verify continuity between these pins: **J1 pin 1** to **J3 pin 4** and also from **J1 pin 4** to **J3 pin 3**.

4. Diode Test: Set the ohm meter to the **Diode** scale. **All readings +/- 10%**

Red Lead on **J1-2**, Black Lead on **J1-3** = **0.5**

Red Lead on **J1-6**, Black Lead on **J1-8** = **0.5**

5. Solenoid Driver Test: Set the ohm meter on the **Diode** scale.

Red Lead on **B-** blade, Black Lead on **J1-6** = **0.5**

6. Field Driver Test: Set the ohm meter on the **Diode** scale.

Red Lead on **B-** blade, Black Lead on **F1** = **0.5**

Red Lead on **B-** blade, Black Lead on **F2** = **0.5**

Black Lead on **B+** blade, Red Lead on **F1** = **0.5**

Black Lead on **B+** blade, Red Lead on **F2** = **0.5**

7. Armature Driver Test: Set the ohm meter on the **Diode** scale.

Red Lead on **B-** blade, Black Lead on **M-** blade = **0.45**

Red Lead on **M-** blade, Black Lead on **B+** blade = **0.3**