

## Procedure 5.1 - Measuring the Resistance of a Generator

### Caution

If a external power supply is connected to the EFX, disconnect the external power supply from the EFX before continuing with this procedure.

### Procedure

1. Remove the screw at the right rear of the rear cover. Grasp the right side of the rear cover and rotate it counterclockwise to remove the cover. Refer to Procedure 7.1.
2. Remove the two screws that retain the black plastic shield. Remove the black plastic shield from the EFX.
3. Remove the red battery lead from the lower PCA. See Diagram 5.1.

### WARNING

Before continuing with this procedure, review the Warning and Caution statements listed in Section One, Things You Should Know.

4. Set the ohmmeter to a range that will conveniently read up to 50  $\Omega$ .
5. Remove the six phase generator connector from the lower PCA, refer to Diagram 5.1, below.
6. With an ohmmeter, read between terminals 1 & 2, terminals 1 & 3, terminals 1 & 5, terminals 1 & 6, and terminals 1 & 7 on the six phase generator connector (J1). Each of the readings should be between 36  $\Omega$  and 40  $\Omega$ .
7. If any of the readings are significantly high or significantly low, remove the intermediate cable from the generator and perform the same measurements as in step 4 on the generator connector. If the reading are now correct check and or replace the intermediate cable. refer to Diagram 5.1. If the readings are still incorrect, remove the six phase generator.
8. Replace the generator per Procedure 7.18. Reconnect the intermediate cable removed in step 5 to the replacement generator and the lower PCA.
9. Reconnect the red battery lead to terminal M6 of the lower PCA.
10. set the black plastic shield in its mounting position and fasten it with the screws removed in step 2.
11. Set the right side of the rear cover in it's mounting position and rotate it clockwise. Ensure that the cover is fully engaged and fasten it with the screw removed in step 1.

**Diagram 5.1 - Lower PCA**

