

Flash Code #2 - Left Motor Disconnected

Symptoms:

There are two battery condition meter LEDs flashing.

Diagnosis:

There is an open in the left motor (8).

Solution:

Use the following procedure to find the source of the fault:

1. Unplug connector 1c from connector 2a. **See diagram 2.**
2. Measure resistance across pin 3 and pin 4 on connector 2a. **See figure 25.**
 - If your multimeter indicates 0.5 - 1.5 ohms, then replace the VSI controller (1) and retest the system.
 - If your multimeter indicates outside of this range (0.5 to 1.5 ohms), then go to the next step.
3. Remove the seat and foot platform assembly. Refer to power base owner's manual.
4. Remove the shroud. **See figure 10.**
5. Unplug connector 2e from connector 8a. **See diagram 2.**
6. Measure resistance across pin 1 (red) and pin 2 (black) on connector 8a. **See figure 26.**
 - If your multimeter indicates 0.5 - 1.5 ohms, then replace the power interface harness (2) and retest the system.
 - If your multimeter indicates outside of this range (0.5 to 1.5 ohms), then go to the next step.
7. Remove the brushes from the left motor and inspect them. **See figure 27.**
 - If the brushes are worn below 0.25 in. or they are physically damaged, then replace the brushes and retest the system. **See figure 28.**
 - If the brushes are not worn below 0.25 in. or they are not damaged, then replace the left motor (8) and retest the system.

Flash Code #3 - Left Motor Wiring Fault

Symptoms:

There are three battery condition meter LEDs flashing.

Diagnosis:

There is a wiring fault between the left motor (8) and brake.

Solution:

Use the following procedure to find the source of the fault:

1. Unplug connector 1c from connector 2a. **See diagram 2.**

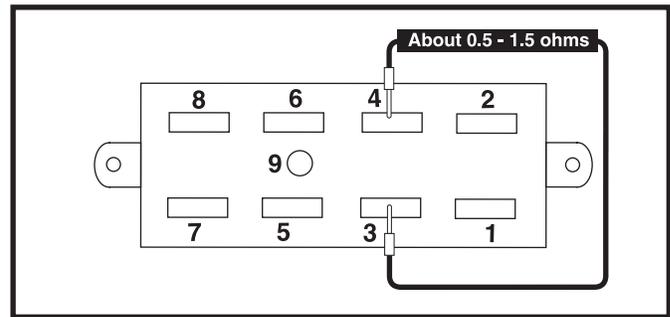


Figure 25. Connector 2a

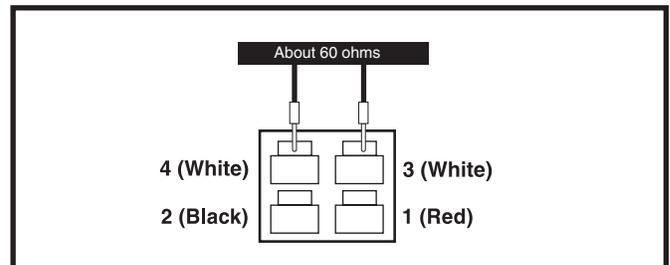


Figure 26. Connector 8a

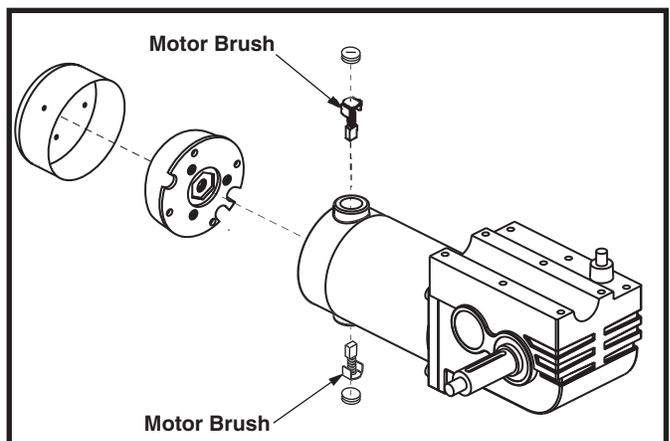


Figure 27. Motor Brush Location (typical)

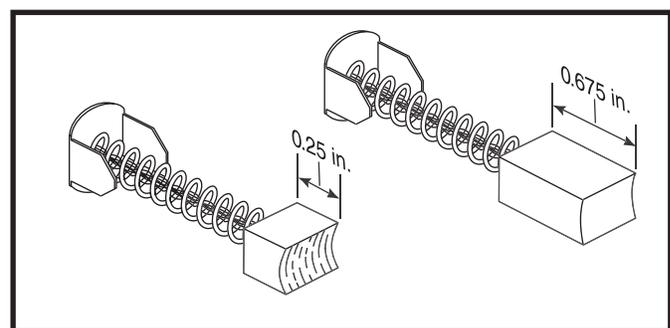


Figure 28. Motor Brushes

2. Measure resistance across pin 3 and pin 9 and across pin 3 and pin 7 on connector 2a. **See figure 29.**
 - If your multimeter indicates an open on either tests, then replace the VSI controller (1) and retest the system.
 - If your multimeter indicates less than 1m ohm on both tests, then go to the next step.
3. Remove the seat and the foot platform. Refer to the power base owner's manual.
4. Remove the shroud. **See figure 10.**
5. Unplug connector 2e from connector 8a. **See diagram 2.**
6. Measure resistance across pin 1 (red) and pin 3 (white) and across pin 1 (red) and pin 4 (white) on connector 8a. **See figure 30.**
 - If your multimeter indicates an open on either test, then replace the power interface harness (2) and retest the system.
 - If your multimeter indicates less than 1 ohm on both tests, then replace the left motor (8) and retest the system.

Flash Code #4 - Right Motor Disconnected

Symptoms:

There are four battery condition meter LEDs flashing.

Diagnosis:

There is an open on the right motor (9).

Solution:

Use the following procedure to find the source of the fault:

1. Unplug connector 1c from connector 2a. **See diagram 2.**
2. Measure resistance across pin 1 and pin 2 on connector 2a. **See figure 31.**
 - If your multimeter indicates 0.5 - 1.5 ohms, then replace the VSI controller (1) and retest the system.
 - If your multimeter indicates outside of this range (0.5 to 1.5 ohms), then go to the next step.
3. Remove the seat and foot platform assembly. Refer to power base owner's manual.
4. Remove the shroud. **See figure 10.**
5. Unplug connector 2d from connector 9a. **See diagram 2.**
6. Measure resistance across pin 1 (red) and pin 2 (black) on connector 9a. **See figure 32.**
 - If your multimeter indicates 0.5 - 1.5 ohms, then replace the power interface harness (2) and retest the system.
 - If your multimeter indicates outside of this range (0.5 to 1.5 ohms), then go to the next step.

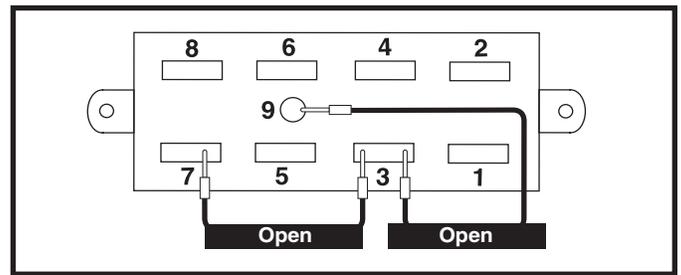


Figure 29. Connector 2a

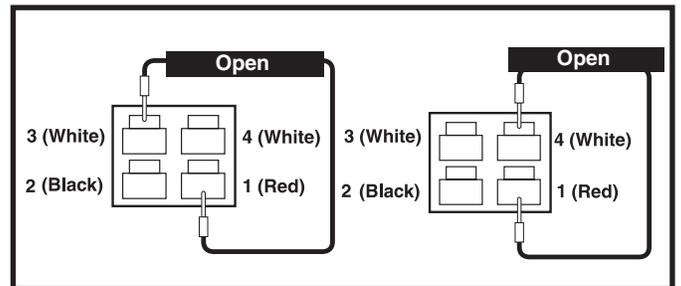


Figure 30. Connector 8a

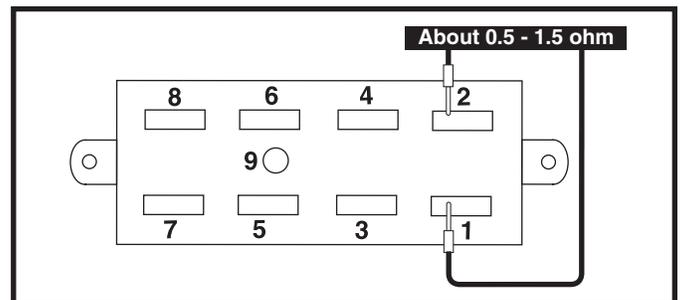


Figure 31. Connector 2a

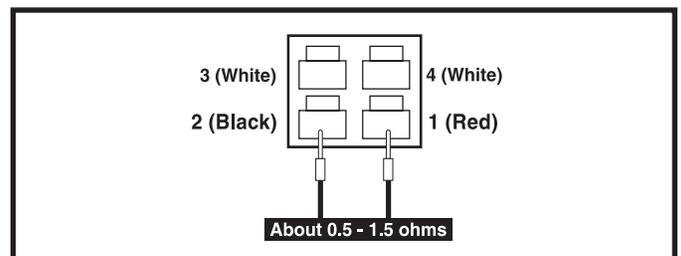


Figure 32. Connector 9a