

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.

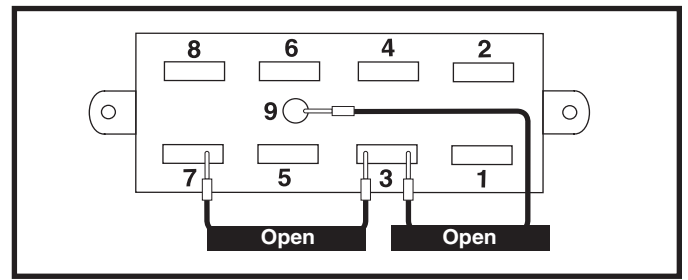


Figure 29. Connector 2a

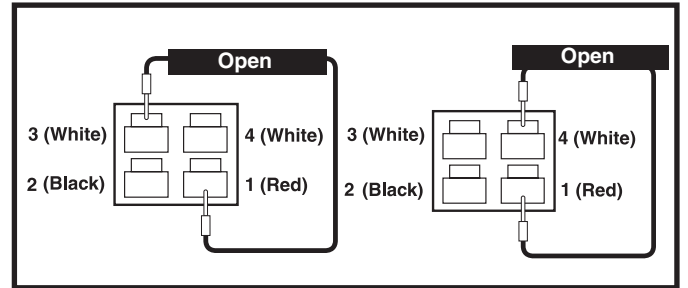


Figure 30. Connector 8a

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.

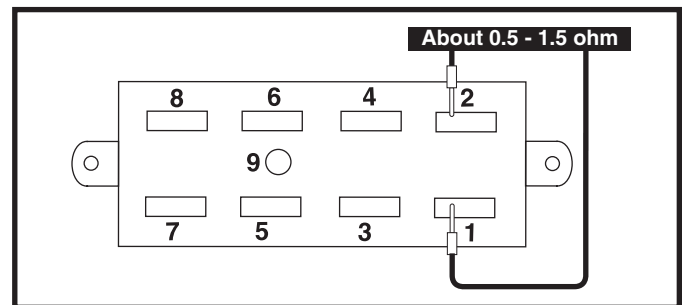


Figure 31. Connector 2a

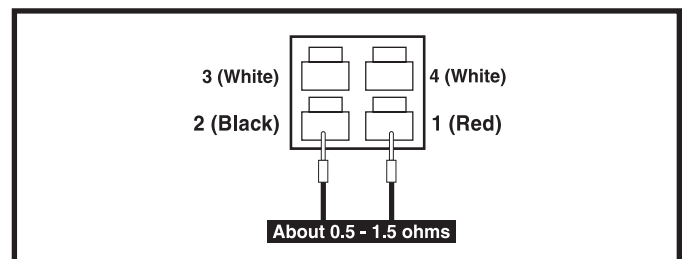


Figure 32. Connector 9a

7. Remove the brushes from the right motor (9) and inspect them. **See figure 33.**
 - *If the brushes are worn below 0.25 in. or they are physically damaged*, then replace the brushes and retest the system. **See figure 34.**
 - *If the brushes are not worn below 0.25 in. or they are not damaged*, then replace the right motor (9) and retest the system.

Flash Code #5 - Right Motor Wiring Fault

Symptoms:

There are five battery condition meter LEDs flashing.

Diagnosis:

There is a wiring fault between the right motor (9) and brake.

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 2 and pin 9 and across pin 2 and pin 7 on connector 2a. **See figure 35.**
 - *If your multimeter indicates an open on either test*, 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 2d from connector 9a. **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 9a. **See figure 36.**
 - *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 right motor (9) and retest the system.

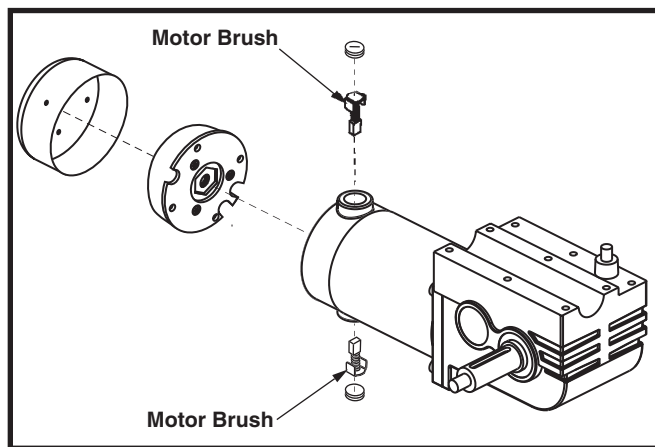


Figure 33. Motor Brush Location (typical)

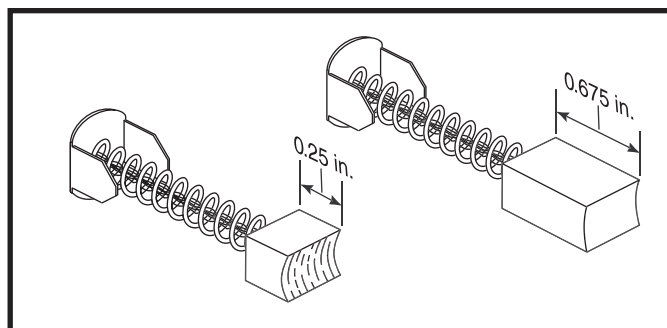


Figure 34. Motor Brushes

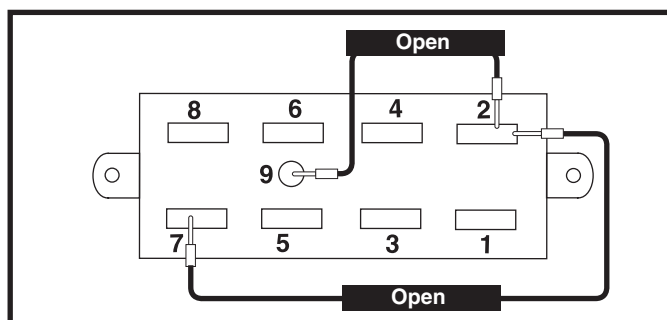


Figure 35. Connector 2a

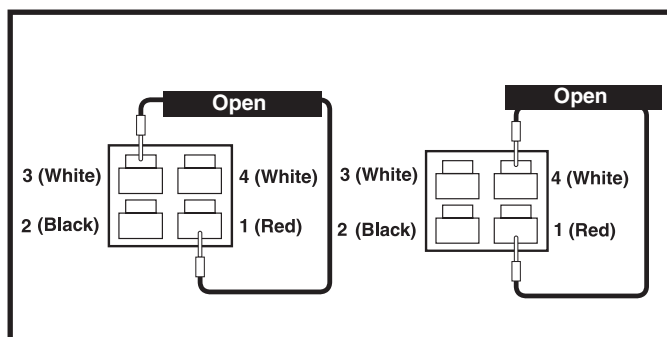


Figure 36. Connector 9a