

Flash Code #2 - Left Motor Disconnected

Symptoms:

There is a steady flash of two battery condition meter LEDs (two red).

Diagnosis:

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

Solution:

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

1. Unplug connector 13b from the power module (4). See **diagram 2**.
2. Measure resistance across pin 1 and pin 2 on connector 13b. See **figure 34**.
 - If your multimeter indicates an open, then go to the next step.
 - If your multimeter indicates about 0.5—1.5 ohms, then replace the power module (4) and retest the system.
3. Unplug connector 13a from connector 8a.
4. Measure resistance across pin 1 (red) and pin 2 (black) on connector 8a. See **figure 35**.
 - If your multimeter indicates an open, then go to the next step.
 - If your multimeter indicates about 0.5—1.5 ohms, then replace left motor interface harness (13) and retest the system.
5. Remove the motor brushes from the left motor and inspect them.
 - If the brushes are worn below 0.25 in. or they are physically damaged, then replace the brushes and retest the system. See **figure 36**.
 - 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 is a steady flash of three battery condition meter LEDs (three red).

Diagnosis:

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

Solution:

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

1. Unplug connector 13b from the power module (4). See **diagram 2**.
2. Measure resistance across pin 1 and pin 3 and across pin 1 and pin 4 on connector 13b. See **figure 37**.
 - If your multimeter indicates an open on both tests, then replace the power module (4) and retest the system.
 - If your multimeter does not indicate an open on both tests, then go to the next step.

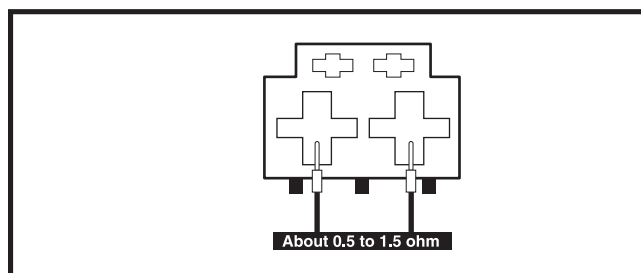


Figure 34. Connector 13b

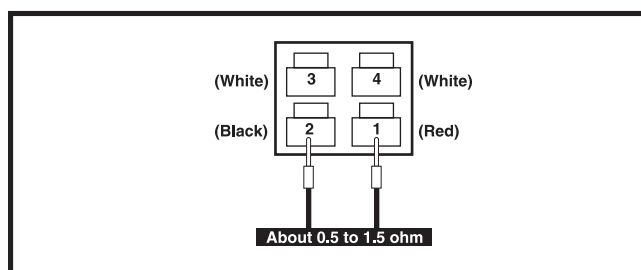


Figure 35. Connector 8a

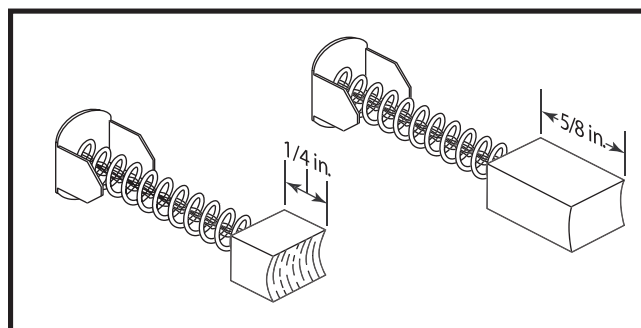


Figure 36. Motor Brushes

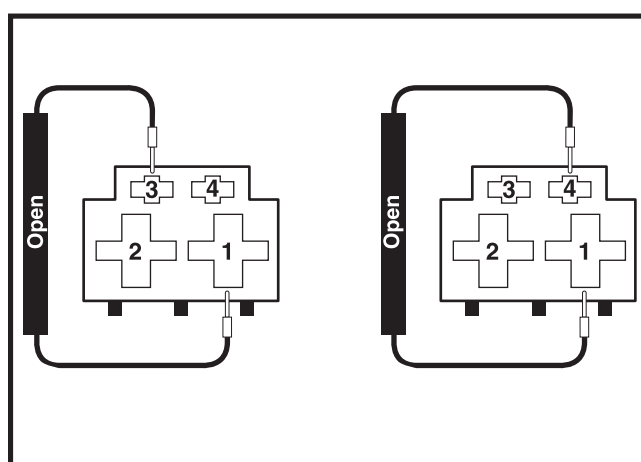


Figure 37. Connector 13b

3. Unplug connector 13a from connector 8a. **See diagram 2.**
4. Measure resistance across pin 1 (red) and pin 3 (white) and across pin 1 (red) and pin 4 (white) on connector 8a. **See figure 38.**
 - If your multimeter indicates an open on both tests, then replace the left motor interface harness (13) and retest the system.
 - If your multimeter does not indicate an open on both tests, then replace the left motor/brake assembly and retest the system.

Flash Code #4 - Right Motor Disconnected

Symptoms:

There is a steady flash of four battery condition meter LEDs (three red and one yellow).

Diagnosis:

There is an open between the right motor (9) and power module.

Solution:

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

1. Unplug connector 14b from the power module (4). **See diagram 2.**
2. Measure resistance across pin 1 and pin 2 on connector 14b. **See figure 39.**
 - If your multimeter indicates an open, then go to the next step.
 - If your multimeter indicates 0.5—1.5 ohms, then replace the power module (4) and retest the system.
3. Unplug connector 14a from connector 9a.
4. Measure resistance across pin 1 (red) and pin 2 (black) on connector 9a. **See figure 40.**
 - If your multimeter indicates an open, then go to the next step.
 - If your multimeter indicates about 0.5—1.5 ohms, then replace the right motor interface harness (14) and retest the system.
5. Remove the motor brushes from the right motor and inspect them.
 - If the brushes are worn below 0.25 in. or they are physically damaged, then replace the brushes and retest the system. **See figure 41.**
 - 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.

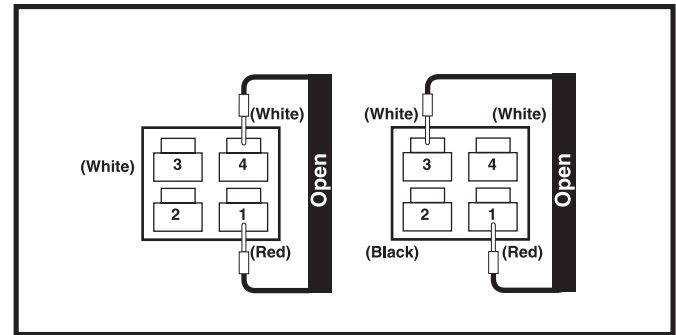


Figure 38. Connector 8a

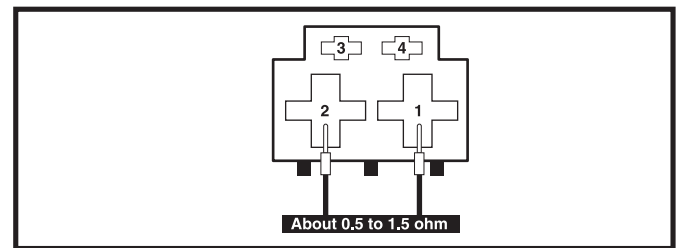


Figure 39. Connector 14b

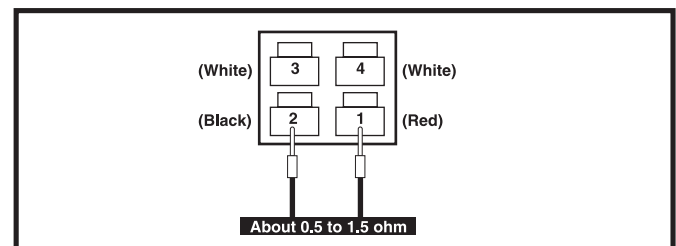


Figure 40. Connector 9a

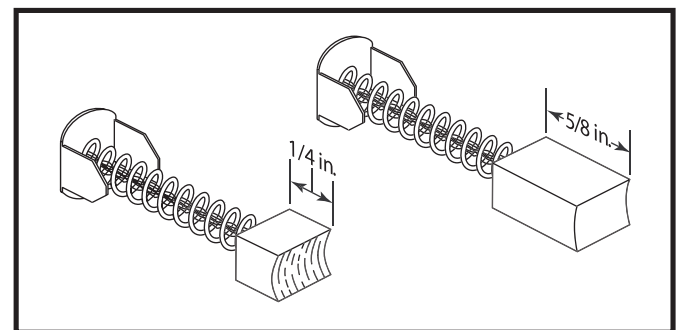


Figure 41. Motor Brushes

- | | | |
|--------------------------------------|-----------------------------|---|
| 1 JOYSTICK MODULE | 5 POWER INTERFACE HARNESS | 9 RIGHT MOTOR |
| 2 REDEL CABLE | 6 ONBOARD BATTERY CHARGER | 10 FRONT BATTERY HARNESS |
| 3 CHARGER/JOYSTICK INTERFACE HARNESS | 7 CHARGER INTERFACE HARNESS | 11 BACK BATTERY HARNESS |
| 4 POWER MODULE | 8 LEFT MOTOR | 12 CHARGER POWER CORD INTERFACE HARNESS |
| | | 13 LEFT MOTOR INTERFACE HARNESS |
| | | 14 RIGHT MOTOR INTERFACE HARNESS |

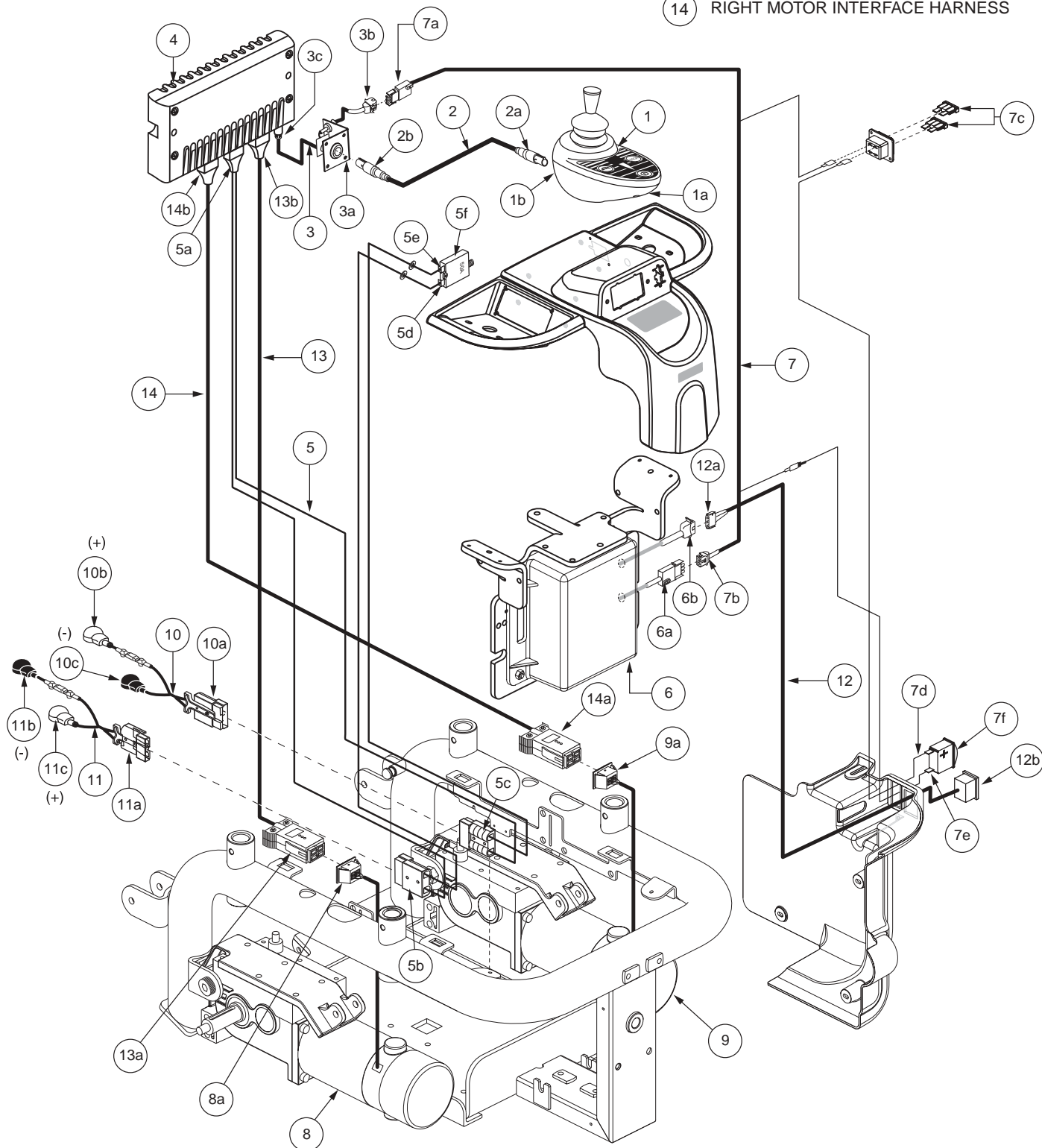


Diagram 2. Jazzy 1121 with Remote Plus Wiring Diagram 3D