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|---|--------------------------------|---|-----------------------|----|-----------------|
| 1 | REMOTE PLUS JOYSTICK | 5 | BATTERY CABLE | 9 | LEFT MOTOR |
| 2 | POWER MODULE | 6 | FRONT BATTERY HARNESS | 10 | CIRCUIT BREAKER |
| 3 | REDEL CABLE | 7 | REAR BATTERY HARNESS | 11 | RUN PLUG |
| 4 | POWER TAKE-OFF/INHIBIT HARNESS | 8 | RIGHT MOTOR | 12 | REDEL RUN PLUG |

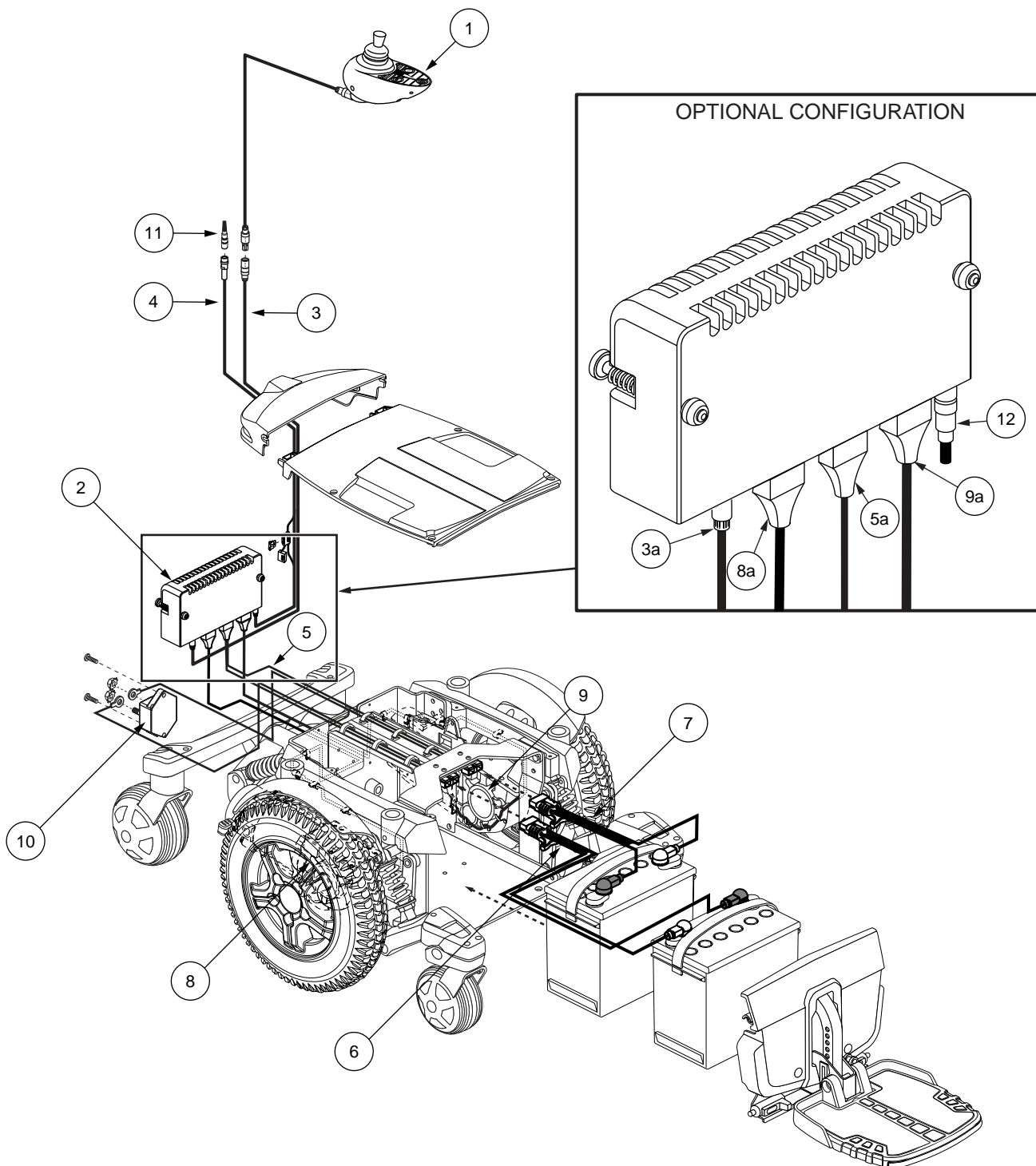


Diagram 1. Quantum 6000 Troubleshooting Key

3. Remove the motor brushes from the right motor and inspect them for wear or damage. **See figure 33.**
 - *If the motor brushes are worn below 0.25 in. or they are physically damaged, then replace the brushes and retest the system.*
 - *If the motor brushes are not worn below 0.25 in. and are not physically damaged, then replace the right motor (8) and retest the system.*

Flash Code #5 - Right Motor Wiring Fault

Symptoms:

There is a steady flash of five battery condition meter LEDs (three red, two yellow).

Diagnosis:

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

Solution:

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

1. Unplug connector 8a from connector 2d. **See diagram 3.**
2. Measure resistance from pin 1 to pin 3, then pin 1 to pin 4 on connector 8a. **See figure 36.**
 - *If your multimeter indicates an open for both tests, then replace the power module (2) and retest the system.*
 - *If your multimeter indicates less than 1 ohm for either test, then replace the right motor (8) and retest the system.*

Flash Code #6 - Inhibit Active

Symptoms:

There is a steady flash of six battery condition meter LEDs (three red, three yellow).

Diagnosis:

- An off-board charger is connected to the off-board charger socket (1a).
- There is a short between pin 2 and pin 3 on the off-board charger socket (1a).

Solution:

If the Remote Plus joystick (1) indicates an inhibit active fault and there is no off-board charger plugged into the off-board charger socket (1a), then replace the Remote Plus joystick (1) and retest the system.

Flash Code #7 - Possible Joystick Fault

Symptoms:

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

Diagnosis:

The Remote Plus joystick (1) has a problem with the joystick (gimble).

NOTE: *If the joystick was out of the neutral (center) position when powered up, then the battery condition meter will scroll up and down twice, then display seven flashing LEDs.*

NOTE: *If the speed/profile LEDs are flashing along with the seven battery condition meter LEDs, then there is a communications fault between the power module (2) and the joystick (1). Check for physical damage to the Redel cable (3) and repair as necessary.*

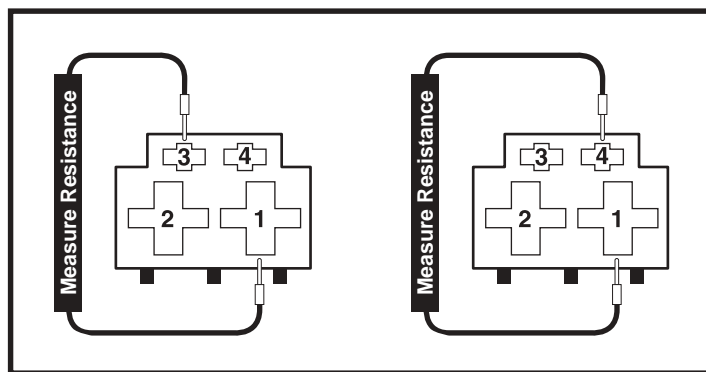


Figure 36. Connector 8a