

## 12. Battery Status Display

The motor has a Battery Status Display (3 LED lights) to show the charge status of the battery being used to power the Cayman motor. As the voltage of the battery discharges, the status light percentage will decline accordingly. It is highly recommended that you recharge the battery once it reaches 20% for lead acid technology batteries. Lithium batteries contain a BMS (battery management system) that actively manages the battery and when it reaches its maximum depth of discharge (DoD) the battery will automatically shut off. (Fig. 16)

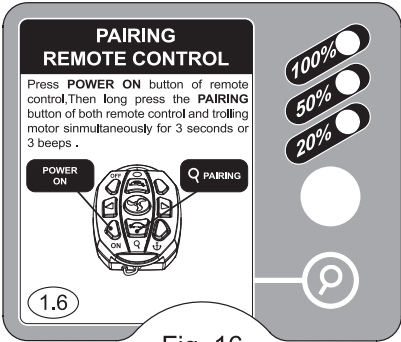


Fig. 16

When used with lithium batteries the battery status display is not entirely accurate due to the nature of discharge of lithium battery technology.

## Trouble shooting

### Audio Warning Pattern

#### 1. Motor fails to run or lack of power

Make sure that the power cable from the battery is connected correctly.

Check that the terminals are clean and corrosion free.

Make sure that the battery is full. If flat or low voltage, please recharge.

Make sure that there is no fishing line or weeds caught up in the propeller. Please detach and clean up the propeller if there is debris got caught up inside the propeller. Warning - Make sure the motor is disconnected from the battery.

★ Make sure that the propeller drive pin is in good condition.

#### 2. Motor vibration

Make sure that the propeller is installed correctly. Inspect the propeller and the drive/shear pin condition and if necessary, replace worn or faulty part.

Disconnect the battery cable and examine the motor by manually turning the propeller. The propeller should turn freely with some magnetic resistance. If there is strong resistance, there may be internal damage. If locked up or excessive resistance, please contact our customer service or the dealer.

#### 3. Operation error warning signal

A continuous beep indicates a power output overload. It can happen if the motor is trying to propel a vessel of too greater weight capacity or has weed or fishing line has caught up under the propeller around the propeller or drive spline.

When the voltage of the battery is too low, the motor will shut off automatically to help protect

| AUDIO PATTERN        | STATUS                                                  |
|----------------------|---------------------------------------------------------|
| One (1) beep         | Operation signal                                        |
| Two (2) beeps        | Function terminated or returned to the original setting |
| Three (3) beeps      | Pairing successful                                      |
| Five (5) beeps       | System ready                                            |
| Continuous           | Low battery warning                                     |
| Continuous long beep | Current overload                                        |

★ For all other malfunctions not listed above, please contact Haswing customer service center.

## Maintenance

1. Wash and clean the motor and propeller thoroughly after use, especially after use in saltwater. Whilst the motor is manufactured for use in saltwater, proper care and maintenance is highly recommended to ensure years of trouble-free operation. Improper use or surface corrosion is not covered by warranty. (Refer page 2)
2. Remove any debris such as weed from around the propeller or propeller drive shaft after every use. (Refer page 2 "Cleaning Motor")
3. Apply suitable lubricant to the turning parts regularly and use the correct tools to fasten parts if required.
4. Regularly apply corrosion prevention spray to help protect your motor.
5. Store the motor in a dry, well ventilated place. The motor can be stored in almost any position, as there is not fuel to worry about leaking.
6. Do not crush or put heavy items on top of the motor.
7. This product is designed for outdoor use only.
8. This motor is designed for outdoor amusement only. Continuous long distance transport is not permitted.

## 推进器电路图

### Electric Circuit Diagram

