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The Robot Program Episode 016: Changing JD's Battery

This lesson demonstrates how to replace JD's battery in case it has worn out and no longer holds a charge. The reader will learn how to properly change the battery, if instructed to do so by EZ-Robot customer support. Follow along with The Robot Program Episode 016: Changing JD's Battery.
View the video episode here: https://www.ez-robot.com/Tutorials/Lesson/26

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Professor E's Overview

*Note: this is a maintenance tutorial and should not be expected for general operation of **Revolution JD**. This process should only be executed if **EZ-Robot** customer support has instructed you to do so.*

This lesson explains the process for changing the **Revolution JD** battery, if necessary. However, the **JD** battery will last many years if the robot is powered off when the battery monitor alert is triggered.

Power off the robot and lay it face down. Using a #1 Philips screwdriver, loosen the body assembly screws and remove the body casing.

Gently disconnect the old battery, being sure not to pull on the wires. Match the cable colors and connect the new battery.

Replace the battery carefully, sliding the cables into the designated channel. Be sure not to pinch any wires.

Reassemble the body. Power on the robot and listen for the chime to indicate success.

Step 1

The **Revolution JD** contained **LiPo Battery** can be replaced in a few simple steps. This process will require a #1 Philips screwdriver.

Step 2

Power off the assembled robot and lay it face down on a flat surface. Make sure the shoulder servo cables have a couple inches of slack.

Step 3

Loosen the screws of the body assembly. The body will withstand light pressure.

Step 4

Screws do not need to be fully removed from the assembly.

Step 5

The **LiPo Battery** uses a deans connector. Unplug the old battery by gently rocking the connector back and forth.

Step 6

Avoid pulling on the wires, as this will cause damage.

Step 7

Connect the new battery by matching the cable colors.

Step 8

Slide the battery into place. The charger plug should fit into the available channel.

Step 9

The deans plug will fit between the servos and the battery. The battery should fit towards the left side to avoid pinching other wires.

Step 10

Line up the screws and tighten into place. Screws should be secured snugly, but not too tight.

Step 11

Readjust the cables for organized connections.

Step 12

Power on the robot and listen for the chime to indicate success.

Quiz

Question #1
Which part of the robot should have some slack before starting the removal process?
Question #2
What type of connection does the robot battery use?
Question #3
What indicates that the cables have been correctly connected?
View the answers to this quiz at www.ez-robot.com/Tutorials/Lesson/26.
Visit www.TheRobotProgram.com for more episodes.