

Battery Replacement

1. Battery → Battery

배터리 교체
[배터리 → 배터리]

1. Remove the hoist cover, attach the hoist, and secure the robot.
2. Raise the hoist until the robot's feet lightly touch the ground, then exit Walk Mode.
3. After exiting Walk Mode, fully suspend the robot using the hoist and perform the shutdown sequence step by step.
4. Press the white power button on the rear of the robot to turn off the power.
5. Remove the battery cover.
6. Disconnect the battery connector by holding both sides of the connector head.
7. Release both locking mechanisms, then remove the battery using the battery handle.
8. Inspect the removed battery for damage and replace it with a new battery.

2. Wired Power Supply → Battery

배터리 교체 [유선 전원 공급 장치 → 배터리]

1. Remove the hoist cover, attach the hoist, and secure the robot.
2. Raise the hoist until the robot's feet lightly touch the ground, then exit Walk Mode.
3. After exiting Walk Mode, fully suspend the robot using the hoist and perform the shutdown sequence step by step.
4. Press the white power button on the rear of the robot to turn off the power.
5. Disconnect the wired power supply cable by holding the connector head.
6. Insert the battery into the battery slot in the correct orientation.
7. Fully insert the battery, engage both locking mechanisms, and connect the battery connector.
8. Ensure that the connector cable is not pinched or obstructed, then reinstall the battery cover.
9. Press the white power button on the rear of the robot to turn on the power.

***Caution:** When connecting or disconnecting a connector, do not pull on the cable. Always hold the connector head to prevent damage.

Battery Management

1. Battery Charging

- **Before charging, completely remove the battery from the robot.**
 - Always use the supplied charger.
 - Using a charger other than the supplied charger may result in battery malfunction, damage, or fire.
- **Connecting the Charger**
 1. Connect the supplied balancing unit to the battery.
 2. Connect the charger's power cable and verify that the rear power switch is in the **OFF (O)** position. Connect the battery to the charger.
 3. After the battery and charger are connected, switch the rear power switch to **ON (I)** to begin charging.
 4. Check the charging status using the front LED indicator:
 - **Red:** Charging
 - **Green:** Charging Complete
 5. Once charging is complete, disconnect the battery from the charger.
- Leaving the battery connected for an extended period may reduce battery lifespan.
- After charging begins, verify that the charging indicator shows normal operation.
- Charging time varies depending on battery level and environmental conditions, but typically requires approximately **3 hours**.
 - Do not modify the DIP switch or rotary switch located on the front panel of the charger.
 - Changing these settings may cause battery damage or fire hazards. Any issues resulting from unauthorized changes are the responsibility of the user.

2. Charging Precautions

- If excessive heat, swelling, unusual odors, or smoke are detected during charging, immediately disconnect the charger and stop using the battery.
- Use the charger indoors at room temperature. Avoid charging in direct sunlight or enclosed spaces.
- Disconnect the charger after charging is complete to prevent overcharging.

- Do not charge the battery immediately after operation while it is still hot. Allow it to cool to room temperature before charging.

3. Battery Storage Guidelines

- Do not store the battery for extended periods at 0% or 100% charge, as this may reduce performance and cause damage.
 - The charger does not support a discharge function. It is recommended to use the robot to adjust the battery charge level to **40–60%** before long-term storage.
- Store the battery in a cool, dry location at **10–25°C**. Avoid contact with metal objects, direct sunlight, and moisture.
- If the battery is not used for more than three months, perform periodic inspections and recharge as necessary.

4. Battery Replacement and Disposal

- Batteries must not be disposed of by the user. Contact an authorized service center before disposal.
- If battery replacement is required, contact an authorized service center and follow the prescribed replacement or purchase procedure.
- Never dispose of batteries with general household waste or leave damaged batteries unattended.