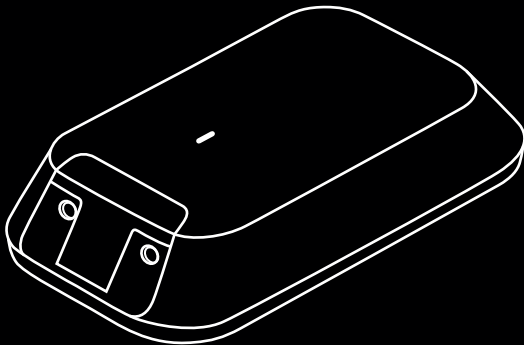


Asset Gateway Mini | AG-31.2

Installation guide



What's in the box



AG Mini



Screws for
wood mounting (4)



Reset pin (1)



Screws for
metal mounting (4)

Understanding the LEDs

Under normal operations, the LED will not flash until the reset button is pressed.



Blinking Blue

Device is setting up



Solid Blue

Device is working properly



Solid Yellow

Device has poor LTE connectivity



Solid Red

Device has low battery

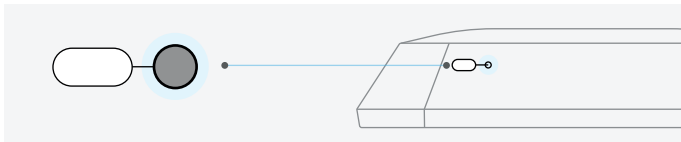


Blinking White

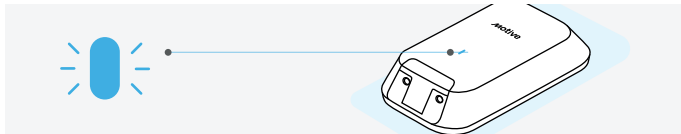
Device is performing a firmware update

Battery Powered Installation

1. Activate the Asset Gateway Mini outside with a clear view of the sky by pressing the reset button on the side with the reset pin provided.

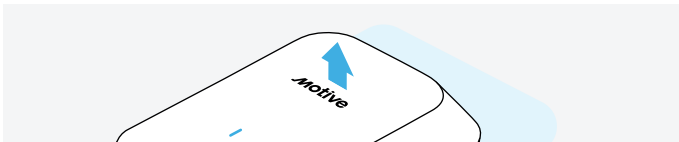


2. The LED will flash Blue indicating the device is now turned on.
3. Find a flat mounting location with a clear view of the sky and mount the Asset Gateway Mini with the screws provided.



Battery Powered Installation

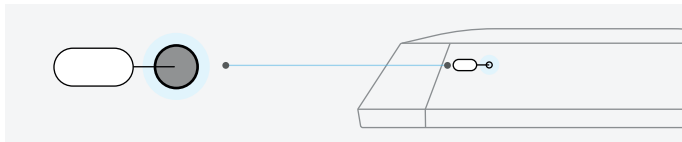
Note: Make sure that the Motive logo is facing towards the sky to have the best LTE & GPS performance.



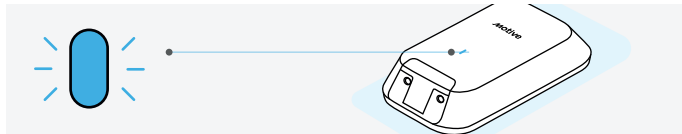
4. You can now track your asset and equipment telematics in the Motive Fleet Dashboard & Fleet App.

Cable Powered Installation

1. Activate the Asset Gateway Mini outside with a clear view of the sky by pressing the reset button on the side with the reset pin provided.

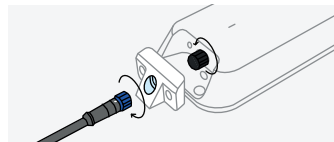
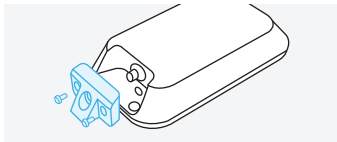


2. The LED will flash Blue indicating the device is now turned on.

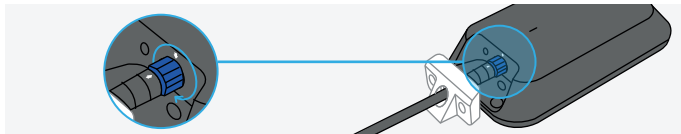


Cable Powered Installation

3. Connect the cable connector to the Asset Gateway Mini by unfastening the back plate, removing the connector cap, and routing the cable through the hole.



- a. Align the two white arrows on the cable and the Asset Gateway Mini, and gently press the cable into the place, and turn the blue nut to tighten.

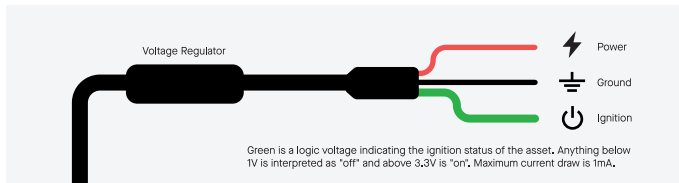


Cable Powered Installation



Ensure that the selected power supply is protected with a fuse rated at no greater than 50A.

4. Connect the 3 wires of the Motive cable to an external power, ground, and ignition wire.



- Note:** Please do not cut off the black plastic housing attached to the wire = voltage regulator. You can shorten up the wire up to that point.
- Also, ensure that other cables in the wire are cut back to the jacket and are not exposed to the elements, which can cause an electrical short.

Cable Powered Installation

! **Note:** Allowed Voltage Tolerances for power supplied to AG Mini via cable:
Following SAE-J1455 tolerances. 9-16V for 12V and 18-32V
Rated current for same: Maximum current is 300mA @ 9V and 100mA @ 32V

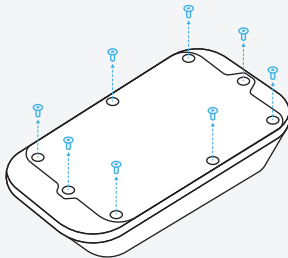
5. Find a flat mounting location & mount the Asset Gateway Mini with the screws provided.



! Make sure that the Motive logo is facing towards the sky to have the best LTE & GPS performance.

Replacing the Battery

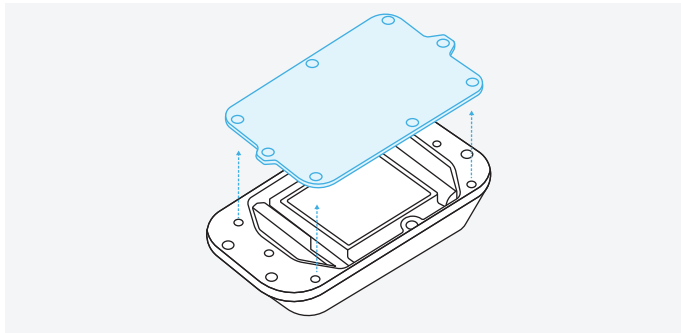
1. Use a Trox T6 screwdriver to remove the eight M2 screws on the device's bottom cover.



Note: Trox T6 screwdriver

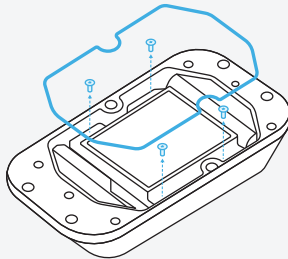
Replacing the Battery

2. Remove the bottom cover from the top housing.



Replacing the Battery

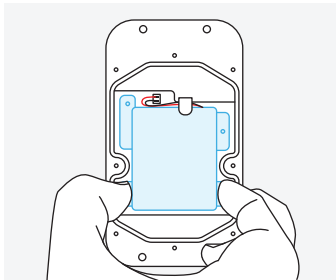
3. Use a Troy T6 screwdriver to remove the four M2 screws from the battery.
4. Remove the O-ring from the housing.



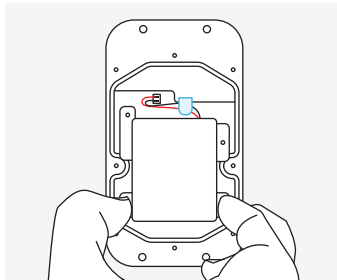
Note: Trox T6 screwdriver

Replacing the Battery

5. To prevent the wire harness of the battery from getting folded or damaged, use your index finger and thumb to grab the battery from the top housing.



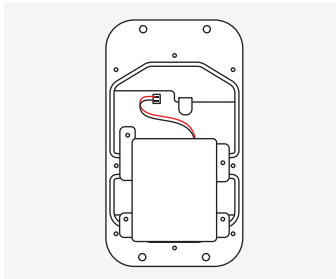
1. Hold the battery



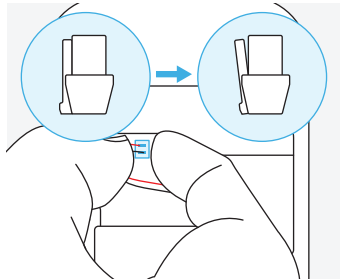
2. Release the harness

Replacing the Battery

Then, slowly release the hook using your thumb and index finger, making sure to hold onto the holder as you remove the battery.



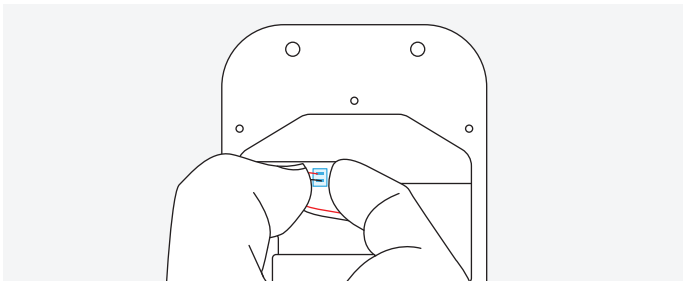
3. Release the connector



4. Release hook

Replacing the Battery

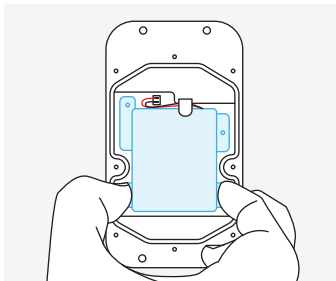
6. When reinstalling the battery into the top housing, follow these steps carefully to prevent damage and ensure safe operation:



- a. Insert the wire harness first**

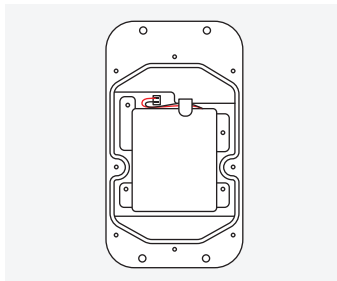
Ensure that the wire harness connector is fully inserted and securely attached to the battery. This ensures proper alignment and a secure connection.

Replacing the Battery



b. Arrange the wire harness

Arrange the wiring carefully to prevent any unnecessary strain or tension on the wires.

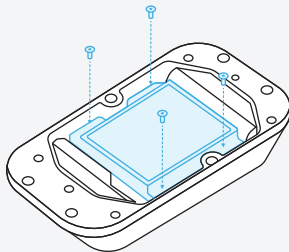


c. Avoid cable pinching

Check carefully that the cable is not pinched or trapped between the battery and the plastic housing.

Replacing the Battery

7. Install four M2 screws on top housing with a Trox T6 screwdriver. Tighten to 0.20 N·m of torque ($\approx 2.0 \text{ kgf}\cdot\text{cm}$ or $1.7 \text{ lbf}\cdot\text{in}$).

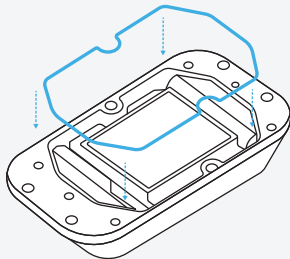


Note: Trox T6 screwdriver

Replacing the Battery

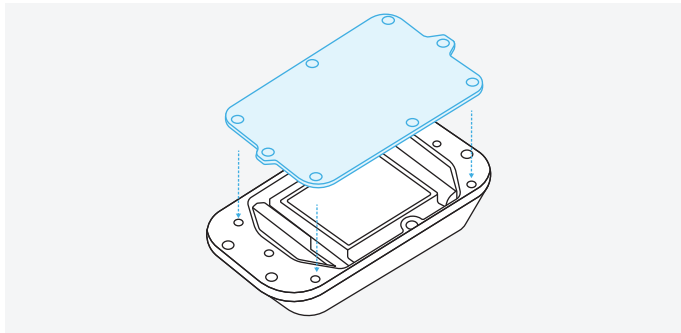
8. Install the O-ring on the top housing. Use your fingers to gently push the O-ring into place, ensuring it is properly anchored in the six grooves. Make sure it is fully seated in the anchor, without any gaps or wrinkles in the O-ring.

NEED TO REPLACE A NEW O-Ring.



Replacing the Battery

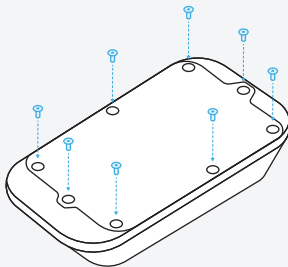
9. Install the bottom cover on the top housing.



Replacing the Battery

4. Install eight M2 screws on the bottom cover with a T6 Torx screwdriver. Tighten to 0.25 N·m of torque ($\approx 2.5 \text{ kgf}\cdot\text{cm}$ or $2.2 \text{ lbf}\cdot\text{in}$).

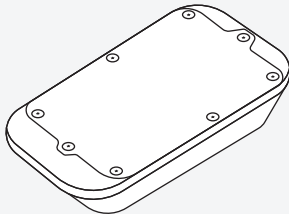
NEED TO REPLACE TO THE FRESH SCREWS.



Note: Trox T6 screwdriver

Replacing the Battery

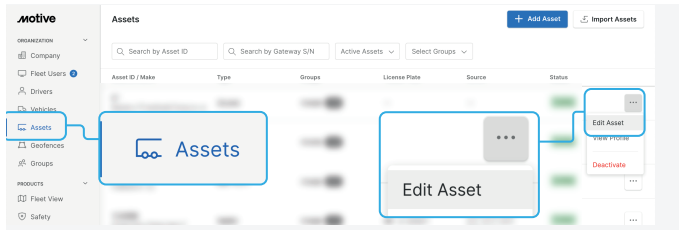
11. Ensure that the bottom cover is securely fastened to the top housing. Your replacement is now complete.



Note

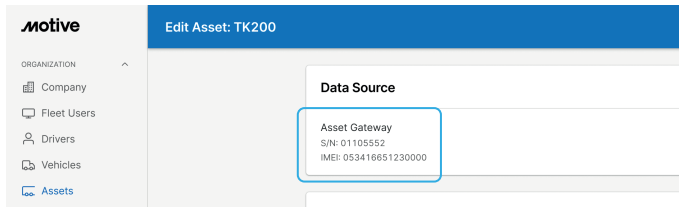
If you need to know the IMEI of your product, follow the steps below:

1. Login to your Motive fleet dashboard
2. Go to Admin → Assets
3. Select Asset → Edit Asset



Note

4. Scroll to the Data Source section



If no Asset Gateway IMEI is found, first assign an Asset Gateway to the vehicle profile to show the associated IMEI info.

Note

This device contains license-exempt transmitters/receivers that comply with Part 15 of the FCC Rules and with Innovation, Science and Economic Development Canada's License-exempt RSS(s). Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

CAN ICES-3(B)/NMB-3(B)

Any Changes or modifications not expressly approved by Motive Technologies, Inc. could void the user's authority to operate the equipment.

This equipment complies with FCC RF radiation exposure limits set forth for an uncontrolled environment and RSS 102 RF exposure compliance requirements. This equipment should be installed and operated with a minimum distance of 20 centimeters between the radiator and your body. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

Note

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by disconnecting, then reconnecting the equipment, the user is encouraged to try to correct the interference by one or more of the following measures:

Reorient or relocate the receiving antenna.

1. Reorient or relocate the receiving antenna.
2. Increase the separation between the equipment and receiver.
3. Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
4. Consult the dealer or an experienced radio/TV technician for help.

Caution

Risk of explosion if battery is replaced by an incorrect type.

- Replacement of a battery with an incorrect type that can defeat a safeguard (for example, in the case of some lithium battery types);
- Disposal of a battery into fire or a hot oven, or mechanically crushing or cutting of a battery, that can result in an explosion;
- Leaving a battery in an extremely high temperature surrounding environment that can result in an explosion or the leakage of flammable liquid or gas; and
- A battery subjected to extremely low air pressure that may result in an explosion or the leakage of flammable liquid or gas.
- High or low extreme temperatures that a battery can be subjected to during use, storage or transportation; and
- Low air pressure at high altitude.

Warning

Explosion hazard. Do not remove or replace battery unless power has been disconnected or the area is free of ignitable concentrations.

Motive only supports and takes responsibility for batteries conforming with the Asset Gateway. Only replace with Motive provided battery. Batteries not designed for Motive Asset Gateway are not supported and may pose a risk to your device and to your health and safety. Usage of batteries which do not comply with regional, national and international regulatory standards is strongly discouraged.

Troubleshooting

855-434-3564 (US/Canada)

support@gomotive.com

helpcenter.gomotive.com

Resources



Scan this code or visit <http://gomotive.com/ag-mini-install> for detailed information and recommendations on installing and assigning your Asset Gateway.

Warranty

Motive Technologies, Inc. (“Motive”) provides the Hardware Terms and Warranty, to see more details, please refer to:

<https://gomotive.com/legal/hardware-terms>