



WEGIC Roof Controller System USER MANUAL



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WEGIC Roof Controller System

Austrack Hybrid Campers are fitted with a WEGIC Electric Pop-Top Roof Lift System, designed to provide smooth, reliable roof operation with minimal effort. The system allows the pop-top roof to be raised and lowered vertically, increasing internal headroom when stationary and maintaining a low travel height when lowered.

System Overview

The electric roof lift system operates using two electric actuators and gas struts controlled by a central controller. The roof can be operated using any of the following:

- Touchscreen control panel
- Rocker switch
- Remote control

A complete lift or lower cycle typically takes less than 35 seconds.

Key Features

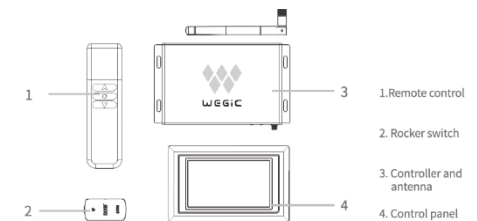
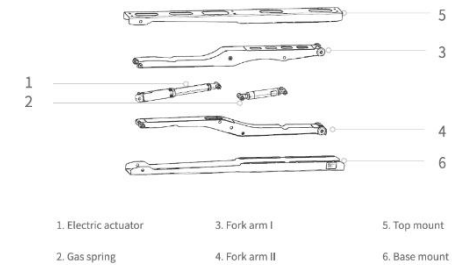
- One-touch pop-top roof operation
- Increased interior headroom when raised
- Industrial-grade electric actuators with gas struts
- Load capacity of up to 210 kg
- Designed for 10,000+ operating cycles

- Quiet operation (below 80 dB)
- Waterproof and wind-resistant design
- Manual lowering function in case of power loss

System Components

The roof lift system consists of:

- Electric actuators (x2)
- Gas struts
- Lifting arms
- Base mounts and top mounts
- Central controller
- Touchscreen control panel
- Rocker switch
- Remote control



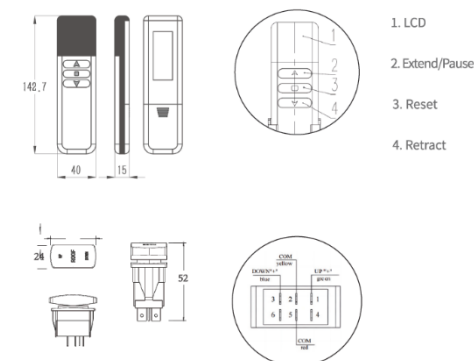
Technical Specifications

Specification	Value
Maximum Load Capacity	Up to 210kg
Maximum Extended Height	850 mm
Collapsed Height (loaded)	110 mm
Lift / Lower Time	≤ 35 seconds
Input Voltage	12 V DC
Operating Temperature	-40°C to 70°C

Control Methods

1- Remote Control Operation

- a. Waking the Remote:
 - i. Press any button to wake the remote from sleep mode. The display will illuminate briefly
- b. Raising the Roof:
 - i. Briefly press the UP button
 - ii. The roof will rise to the preset height



- iii. Press again during movement to pause
- iv. Press again to resume

c. Lowering the Roof

- i. Press and hold the DOWN button for more than 1 second
- ii. Release to pause lowering
- iii. Press and hold again to continue

d. Reset (Calibration)

- i. Press and hold the RESET button
- ii. Allow the roof to descend fully
- iii. Continue holding for 3 seconds
- iv. The roof will briefly rise and settle at zero
- v. A confirmation beep indicates reset is complete

2- Rocker Switch Operation

- a. Raising the Roof
 - i. Briefly press the UP side of the switch
 - ii. Blue LED indicates upward movement
 - iii. Press again to pause
 - iv. Press again to resume
- b. Lowering the Roof
 - i. Press and hold the DOWN side of the switch
 - ii. Amber LED flashes during the lowering
 - iii. Release to pause, press and hold again to continue

3- Touch Screen Control Panel Operation

- a. Main Screen:
The home screen displays current roof height and system status.
- b. Roof Position Buttons
 - i. Position 1: Fully Lowered
 - ii. Position 2: Intermediate Height
 - iii. Position 3: Fully Raised
- c. Manual Control
 - i. Tap UP to raise the roof
 - ii. Press and hold DOWN to lower the roof

d. Reset Function

- i. Press and hold RESET
- ii. Allow full descent
- iii. Continue holding 3 seconds after reaching zero
- iv. Reset completes automatically

e. Alarms

- i. Press the red X icon to clear alarms after resolving the fault

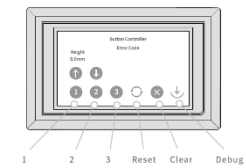
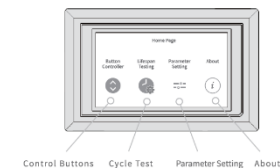
⚠ The Debug function is for technician use only and should not be used by owners.

Electrical Protection Features

The controller continuously monitors system operation and includes:

- Over-current protection
- Over-voltage protection (above 14.6 V)
- Under-voltage protection (below 10 V)

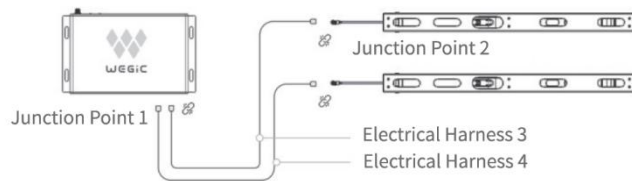
If any fault is detected, the system will stop and display an alarm code.



Manual Roof Lowering (EMERGENCY USE)

If power is unavailable or the system cannot operate electrically:

- 1- Ensure there are no obstructions in the roof's movement path
- 2- Disconnect the motor wiring connectors from the controller
- 3- Manually press or pull the roof down evenly
- 4- Once power is restored, reconnect wiring and perform a system reset before use



Reset and Remote Pairing

- **Reset Checks (Before Reset)**
 - Wiring harness connected securely
 - Roof mechanism securely fastened
 - No foreign objects in the lifting area
- **Reset Procedure**
 - Press and hold RESET
 - Roof descends fully

- Continue holding until roof rebounds slightly
- Reset completes when height displays 0 mm
- ⚠ Error codes during reset (E05–E08) are normal — continue the reset process.

- **Remote Pairing**

- Press and hold the FRQ (Pairing) button on the controller
- Red and green lights flash together
- Press any button on the remote
- Green light remains – Pairing complete

Fault Codes & Troubleshooting

Code	Description
E02	Actuator Synchronisation Fault
E03	Power Supply Undervoltage
E04	Power Supply Overvoltage
E05	Channel 1 Rising Overcurrent Warning
E06	Channel 2 Rising Overcurrent Warning
E07	Channel 1 Lowering Overcurrent Warning
E08	Channel 2 Lowering Overcurrent Warning
E09	Controller Over-current
E10 / E11	Actuator Signal Fault
E16	Power Lost During Operation

General Troubleshooting

- Remove any obstructions
- Check power supply
- Inspect wiring connectors
- Perform a system reset

Important Safety Warnings

⚠ Do NOT operate the roof if:

- An error code is active without identifying the cause
- The roof is obstructed
- One side of the roof latch is engaged
- Mounting bolts are loose
- The controller is installed near strong magnetic fields

Failure to follow these warnings can result in structural damage to the roof mechanism.