COMEUP

Intelligent Control Box

Model: *ICB318*

PN: 883584 12V DC
883585 24V DC

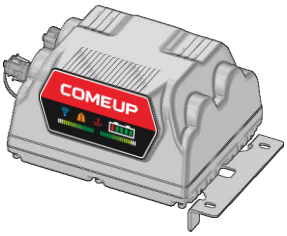
▶ INDEX：

I. Introduction：

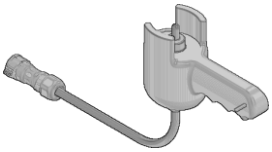
- The Intelligent Control Box (ICB) is COMEUP latest product, designed to allow adjustment of a winch's maximum pulling power.
- A built-in, adjustable current limiter detects the motor amp draw and will interrupt the power if the current exceeds the current limit point (CLP). The CLP can be adjusted using the Current Regulator (sold separately). Regarding CLP setup process, please refer to Current Regulator user manual.
- An embedded information panel provides vehicle battery, winch cable in/out operation, winch overheating and overload information.

II. Contents：

- Intelligent Control Box
  PN 883406 – ICB31812 / DC12V
  PN 883521 – ICB31824 / DC24V



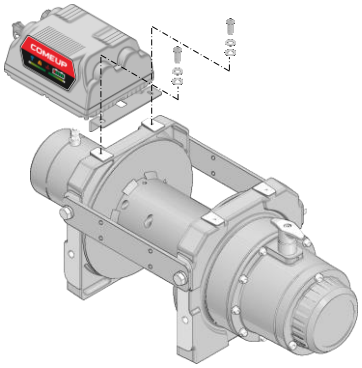
- PN 883509 Handheld Remote

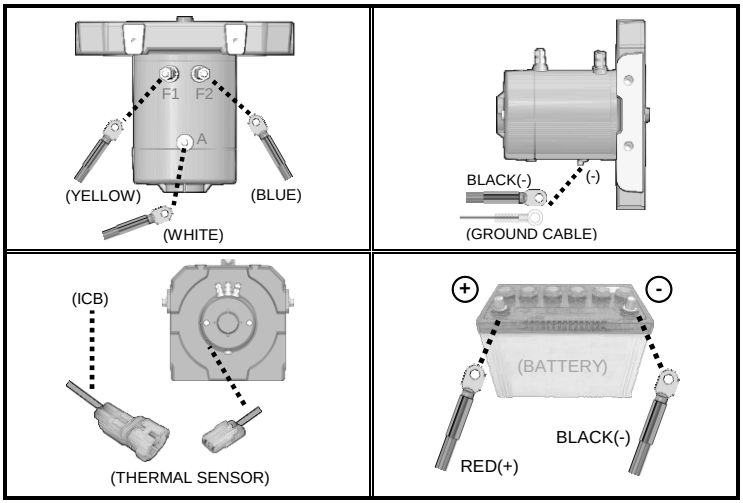


III. Installations：

- Connect power cables F1, F2, and A to the motor terminal studs, guided by the color markings.
- Connect power cable B(-) and ground cable to the stud located on the bottom of the motor.
- Connect the thermal sensor cable to both the control box and the motor.

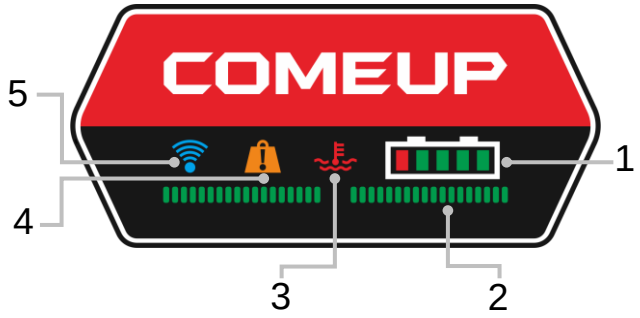
- Mount ICB unit on the motor support rack bracket.
- Connect power cables A(+) and B(-) to battery terminals.





Ⅳ. ICB318 Information Panel：

- Information Panel：



Ⅴ. Operating Instructions：

Item	Icon	Features	Instructions	
1		Vehicle Battery Monitor		● Battery voltage 12V for ICB31812; 24V for ICB31824.
				● Battery voltage between 11V and 12V for ICB31812; between 22.5V and 24V for ICB31824.
				● Battery voltage between 10V and 11V for ICB31812; between 21V and 22.5V for ICB31824.
				● Battery voltage between 9V and 10V for ICB31812; between19.5V and 21V for ICB31824.
				● Battery voltage between 8V and 9V for ICB31812, between 18V and 19.5V for ICB31824.
				● When battery voltage is lower than 8V for ICB31812; lower than 18V for ICB31824, the red light begins blinking and the buzzer alarms.
				● When instantaneous voltage drop down to 9V for ICB31812; 18V for ICB31824, during operation, the operation will stop immediately, and the warming light will blink for 10 seconds.
2		Winch Operation Indicator		● During winch cable-in operation, the winch operation indicator bar scrolls outside-in.
				● During winch cable-out operation, the winch operation indicator bar scrolls inside-out.
3		Overheat Indicator		● When the thermal sensor detects winch motor overheating (over 100 degrees Celsius), Overheat indicator blinks with buzzer alarm.
				● The winch operation indicator turns red when the winch is operated.
4		Overload Indicator		● When the ICB318 detects winch overload, Overload protection mode is automatically activated, the Overload Indicator blinks, the buzzer alarm sounds for the 5 seconds. ● During Overload protection mode, Cable-in operation is disabled. ● To return back to normal operation mode, the operator must do cable out to release the overload protection function. Then the icon will turn off, the buzzer alarm sounds for the 5 seconds.
5		Wireless Connection Indicator	For ICB518 only, Please refer to the ICB518 instruction manual.	

Ⅵ. Warning：

- Unplug the wired remote control after use to prevent battery power consumption and accidental damage to the remote or winch.
- To use the wireless transmitter, the wired remote control must be connected.
- To prevent electrical component damage, disconnect the control box from the power source during internal inspection or repair.
- To prevent damage, do not connect other USB devices to USB port on ICB unit.
- To prevent damage, do not connect the Current Regulator to any USB devices other than the ICB unit.

▶ Wireless Receiver & Transmitter Operation

This wireless remote control device complies with CE mark, FCC and Industry Canada (IC) rules.

CE Mark Warning

- This is a Class B product, in a domestic environment, this product may cause radio interference, In which case the user may be required to take adequate measures.

FEDERAL COMMUNICATIONS COMMISSION INTERFERENCE STATEMENT

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 turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

-Reorient or relocate the receiving antenna.

-Increase the separation between the equipment and receiver.

-Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.

-Consult the dealer or an experienced radio/ TV technician for help.

CAUTION:

Any changes or modifications not expressly approved by the grantee of this device could void the user's authority to operate the equipment.

RF exposure warning

This equipment must be installed and operated in accordance with provided instructions and the antenna(s) used for this transmitter must be installed to provide a separation distance of at least 20 cm from all persons and must not be co-located or operating in conjunction with any other antenna or transmitter. End-users and installers must be provide with antenna installation instructions and transmitter operating conditions for satisfying RF exposure compliance.