

# INSTALLATION & OPERATING INSTRUCTIONS for the PROQUIP ENGAGER WIRELESS CONTROL

## INSTALLATION

The BRAKE Transmitter box can be fitted anywhere on the trailer and preferably as close as possible to the Breakaway Battery Box.

The wires should be fitted in the order listed below:

1. WHITE to earth/negative
2. ORANGE to trailer 12V Positive, NOT the Breakaway battery positive
3. BLUE to the Electric Brake wire.

Next, disconnect the Breakaway Battery's positive lead in the following order:

1. RED wire with the Male spade terminal, push into the Female terminal on the end of the Breakaway Battery's positive lead.
2. PINK wire with the Female spade terminal, push onto the Breakaway Battery's Positive terminal.
3. The short thin black wire is the aerial, leave that hanging out of the box.  
DO NOT CUT THIS WIRE OFF!!!

## OPERATION

The BRAKE Transmitter's LED will flash rapidly once power is applied to the trailer, (when the trailer plug is connected to the tow vehicle) and the LED will continue to flash rapidly when the Brake Pedal is pressed in the tow vehicle.

When the Brake Pedal is first pressed, the LED will glow constantly for 2 seconds while the first battery voltage reading is transmitted.

If the brake is not pressed again for some time, the transmitter will send the same data to the CAB Receiver once every 60 seconds.

After each Brake Press and Transmit cycle, The BRAKE Transmitter will not test the battery for 60 seconds and will ignore any application of the brakes for this 60 second period. This is to allow the Break Away Battery charging time between tests.

If you are stopped for a long period of time, for example, at a set of traffic lights and you have the brake pressed the entire time that you are stopped, the BRAKE Transmitter will only test once every 60 seconds.

Every time the BRAKE Transmitter is activated (when the brakes are applied), the BRAKE Transmitter's LED will flash rapidly for up to 5 second while the battery is being tested and then the LED will glow constantly for 2 seconds while the code is being transmitted. The LED will then go back to giving a short pulse every 2 seconds until the next Battery Test and/or Transmit cycle.

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When the CAB Receiver is first plugged into a power socket (the ignition must be turned on), the Red and Green LEDs will flash alternatively and the buzzer will pulse. Once the trailer is connected, the brake pedal **must be** pressed to activate the BRAKE Transmitter.

**NOTE:** While the BRAKE Transmitter is powered up, as soon as the trailer plug is connected to the tow vehicle the BRAKE transmitter will NOT start transmitting until the Electric Brake is used at least once.

This is a safety operation because the CAB Receiver will continue to pulse the buzzer until it receives a signal from the trailer telling it that the trailer is powered up, and the brakes are working. This will not happen if the trailer plug is connected to the tow vehicle and the Electric Brakes are applied.

After the Electric Brake is first operated, an additional operation of the Electric Brake will now cause the BRAKE Transmitter to send a signal indicating the charge state of the Breakaway Battery.

The CAB Receiver shows a fast flashing alternate RED and GREEN LED, and pulses the buzzer continuously until the Electric Brake is activated.

If the BRAKE AWAY Battery is very low or faulty, the CAB Receiver RED and GREEN LED's will continue fast alternate flashing, but the buzzer will not sound.

- A constant RED indicates a low Breakaway Battery.
- A slow flashing GREEN indicates a charging Breakaway Battery.
- A constant GREEN indicates a fully charged or near fully charged Breakaway Battery.

