

INSTALLATION INSTRUCTIONS

Power Pal™ Wireless Installation

The Power Pal™ system comes with the transmitter keypad and prepared to accept the wireless receiver board. Use of the wireless keypad will give you freedom of movement around the vehicle and work site.

Care must be taken during installation of the wireless system to ensure reliable operation.

Note: Not all conditions are suitable for wireless operation. High tension power lines and areas of high Radio Frequency (RF) traffic may shorten the range or hinder the operation of the wireless keypad transmitter.

Follow the instructions carefully.

Install the Batteries into the Transmitter

Remove the wireless keypad from its pouch and place it face down on a table or bench. Remove the two screws on the battery cover. Install the 'AA' alkaline batteries into the battery holder and replace the battery cover.

Install the Receiver Baby Board

Remove the lid from the Power Pal™ PDC. The wireless receiver baby board connects directly to the Power Pal™ PDC circuit board.

The mounting location for the receiver board is the location just above the coiled cord plug on the circuit board. Remove the mounting screws from the stand-offs located in the center of the PDC circuit board. Orient the connector of the receiver board so that it mates with the connector labeled 'RX-815' on the PDC circuit board and press the receiver board into place.

Secure the receiver board by replacing the mounting screws back into the stand-offs through the 'RX815' receiver card.

Install the Antenna

Install the antenna using the provided 90° antenna-mounting bracket. The antenna is designed to fit this bracket and it should be used for optimum range. An ideal location for mounting the antenna is by the rear deck of the rear toolbox which contains the Hydraulic Controller. Mount the bracket to a flat bare metal surface that is well grounded.

Route the other end of the coax antenna cable from the mounting bracket to the Power Pal™ PDC. Insert the cable through the mounting bracket and attach the antenna mount to the bracket. Attach and tighten the antenna to the threaded mount on

the bracket. A loose antenna may cause intermittent operation and limit the distance of operation.

Route the other end of the antenna cable through the black strain relief in the Power Pal™ enclosure. Attach the cable connector to the antenna connector on the receiver board. Be careful not to over tighten the cable connector.

Program the Receiver Board

Apply power is supplied to the Power Pal™ PDC . Be sure the 'wired/wireless' button is in the 'wireless' mode.

In the wireless mode, the green indicator light in the top right of the wired keypad will be off and the wired remote will not function.

The transmitter keypad will not display a green light like the wired keypad. The wireless keypad will display a RED flashing light when the positions are activated on the keypad.

Located on the receiver board is the programming button. Press the programming button and hold down. The RED LED indicator on the receiver board will turn on solid. While holding the button, press the top left-most position on the wireless transmitter keypad.

When the programming is accepted, the indicator light will begin to flash.

Release the receiver button, and then release the position on the transmitter. If the red indicator goes out when attempting to program, release both buttons and repeat the procedure. Be sure the transmitter has a good 'line of sight' to the antenna.

Test the Wireless Keypad

There are over 10 billion transmit codes available, so there will never be two transmitters that will operate the same truck. Transmitter codes are unique.

Be sure that the wired/wireless switch is in the 'wireless' position.

- Test the operation of all the functions of the wireless keypad.
- Test the operating range of the wireless keypad.

If the wireless keypad does not function properly, consult the wireless troubleshooting section that came with the wireless kit.

NOTE: The wired keypad and the wireless keypad will not operate at the same time.

This completes the installation of the Power Pal™ Wireless System

WIRELESS POWER PAL TROUBLESHOOTING SECTION

The red light on the receiver card does not come on when the program button is pressed.

- Check to make sure the receiver card is properly mounted and seated into the connector on the PDC board, secured with three (3) screws.
- Make sure that there is power going to the Power Pal box. A green LED on the PDC board labeled 'Power' should be on.
- Check to make sure that your 'control' switch is turned on.
- Using a voltmeter, check that there is power on the 'Batt.' Terminal and that the PDC has a good chassis ground. Inspect the connections for loose wires or bad crimps.

The program light stays on solid or goes out when I attempt to program the receiver card.

- Use the top left position of the transmitter keypad to program. Any other position does not allow the unit to program.
- Remove the receiver antenna from the connector on the receiver card. Hold the transmitter close to the receiver card and attempt to program again. If the program is accepted, THOROUGHLY check your antenna for loose connections and kinked or broken cabling.
- Check the status of your batteries. Replace them with alkaline 'AA' batteries if needed.

I programmed the receiver to the transmitter, but the unit still won't function.

- Check to make sure the 'wired / wireless' switch is in the wireless position.
- Try moving around the vehicle and operating the transmitter. If the unit operates intermittently, check your antenna connections thoroughly.
- Remove the antenna cable from the receiver card. Hold the transmitter near the receiver. If the unit operates correctly, inspect the entire antenna system for poor connections, kinked, broken, or excessive coiled cable.

The transmitter works, but it is intermittent and / or the range is not what it should be.

- The area you are operating in may have a high amount of radio frequency (RF) noise. Try the transmitter in other areas and see if the intermittence stops or changes.
- Check your batteries. Use only alkaline 'AA' batteries.
- Make sure that the antenna connections are tight and clean. DO NOT splice the antenna cable to extend or shorten it. Make sure that the antenna is tight and secure on its base and that the antenna base is free from oil, dirt, and corrosion inside and out.
- Check to make sure that the transmitter antenna is securely screwed into the transmitter.

- Check the operation of the wired keypad. If it is intermittent, check the power and ground into the Power Pal.
- If it is always the same function that is intermittent check the output wire coming from the Power Pal to the distant function.

NOTE: If there is another truck that is operating wireless nearby the two signals will cancel each other becoming intermittent, or cease to operate.

If you need further assistance, our technical assistance department can be reached Monday through Friday, 8:00 a.m. to 4:00 p.m. Pacific Time. 707-575-3116.