

PIERCE *Wiring Instructions for PS002 - 2 Function Receivers*



Instructions PS002v1

1 BEFORE YOU START

- The Receiver is designed to carry a maximum of 5 Amps, with an individual output maximum of 3 Amps. If you need to switch higher currents, then you should consider other series which can switch up to 15 Amps.
- Master Output. Continuous or Parallel operation,
- Receiver outputs, when connected in parallel with an external switching device (wired remote), will instantly switch off if the wired remote is operated. This is a feature of the safety circuits.
- Lodar Receivers **MUST** have an **isolation switch** to allow for registering a replacement Transmitter and a **FUSE** for safety.
- Safety Feature. Both the Transmitter and the Receiver will switch off after 30 minutes of inactivity. Other Timeouts are available, ask your dealer.

2 IDENTIFY POWER CONNECTION POINT AND ISOLATE SUPPLY

Remove fuse

or Disconnect Battery

WARNING
Vehicle batteries contain gasses which are flammable and explosive. Wear eye protection and do not lean over battery while disconnecting. Do not wear metal jewellery.

3 MOUNT RECEIVER

CAUTION

POSITIVE
NEGATIVE

TAKE TIME TO LOCATE THE BEST POSITION

If necessary, power the Receiver and move it around the vehicle until the required performance is achieved. Operate the Transmitter and observe the Receiver internal LED's.

Mount as **HIGH** as possible
AVOID surfaces with **HEAVY VIBRATION**
AVOID DIRECT SPRAY from wheels
 In a **HOT CLIMATE** fit in a **SHADED** position
 Cable gland should face **DOWN** or **BACK**

Receiver PS002
 Waterproof to IP67 complete with 1.5 metres (5ft) cable

Secure using 5mm (3/16") bolts (not supplied) through the 2 mounting feet

4 CONNECT WIRES

Wire Colour	Wire used for	PS002	Connection Notes
RED	12/24 Volts DC Nominal Positive Supply		
BLACK	Zero Volts (Ground)		
GREEN	Output Function 1 (F1 Button)		
YELLOW	Output Function 2 (F2 Button)		
WHITE	Parallel Master		
BROWN	Continuous Master		
BLUE	Not Used		Not Used

What is the MASTER Output for ?

It is used to operate the pump of an electro-hydraulic power pack or maybe a clutch pump. It can also be used for powering a dump valve, master valve etc. It can be configured to work **continuously**, that is ON when SET is pressed and OFF when STOP is pressed; or in **parallel** with any output, that is, it is active only a function is operated. If it is needed with certain functions only, this can easily be configured.

5 ACTIVATE THE RECEIVER SUPPLY

Replace fuse

or re-connect Battery

6 CONNECT TRANSMITTER BATTERY

Batteries generally have to be disconnected when shipping.

7 TEST

Press the Transmitter **RESET** button to activate the system, and carefully test each function for correct operation.

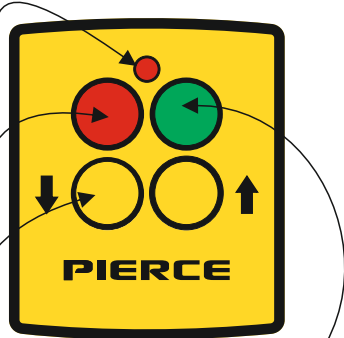
"mini" Transmitter 2 Function

L.E.D.
Blinks when Transmitter is active.
ON when a Transmitter Button is pressed.
Pulses while transmitting when battery is low.

STOP Button switches off the Receiver and the keypad function buttons

Yellow function buttons

Transmitter uses 2 x AAA Alkaline batteries



RESET Button activates the Receiver and the keypad function buttons



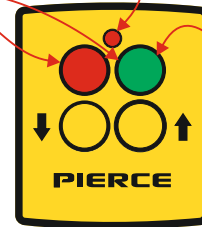
SAFETY FEATURE

The Transmitter sends a STOP signal after 30 minutes; this de-activates both the Receiver and the Transmitter.

LED turns OFF

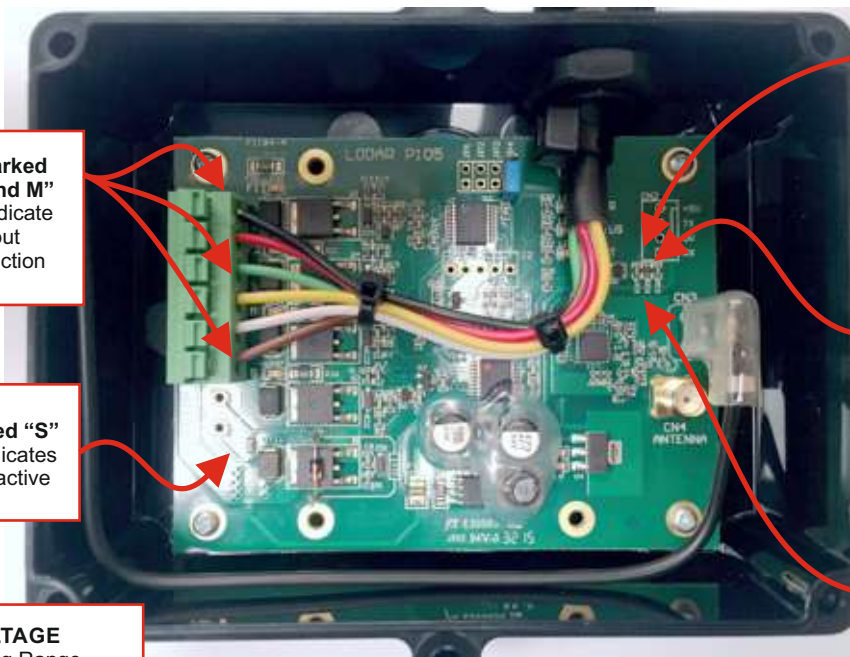
PRESS & HOLD both STOP (Red) and SET (Green) buttons for a **MINIMUM** of 5 SECONDS

Then Power Receiver
 Then **PRESS** and **HOLD SET** for 5 seconds



To register a TI Transmitter to its Receiver

1. Disconnect the power to the Receiver and briefly **PRESS** the STOP button on one or both Transmitter(s).
2. Force the Transmitter into registration mode.
 - a. **PRESS** and **HOLD** both STOP (RED) and SET (GREEN) buttons until the LED turns **OFF**, (about 5 seconds), then release the buttons.
What you will see: - **FLASH pause, FLASH pause etc.**
 - b. If your system only has ONE Transmitter, do not **PRESS** STOP or SET, **go to instruction 4.**
3. To register a second Transmitter, two can be registered, then choose the memory location.
 - a. The LED identifies location 1 as follows:
 - FLASH pause etc.
 The LED identifies location 2 as follows:
 - FLASH, FLASH pause, FLASH, FLASH pause etc.
 - b. To change memory locations, momentarily **PRESS** the SET (green) button to move UP one location or **PRESS** the STOP (red) button to move DOWN one location to achieve the desired memory, do not **PRESS** STOP or SET again, **go to instruction 4.**
4. To register the Transmitter.
 Power the Receiver, you now have a 10 second window to **PRESS** and **HOLD** the (green) SET button for 5 seconds or until the Receiver STATUS LED is lit continuously.



LED's marked "F1 - F2 and M" when lit indicate an output to that function

LED marked "S" when lit Indicates system is active

VOLTAGE
 Working Range
 12 Volts to 24 Volts DC
 Nominal

LED marked "POWER" when lit indicates supply to control circuits is GOOD

LED marked "STATUS" "Flash pause Flash etc." indicates coding window is open.

LED stops flashing when coding window closes.

LED lit continuously when any Transmitter button is pressed.

LED marked "FAULT" Will flash an error code when there is an active fault.

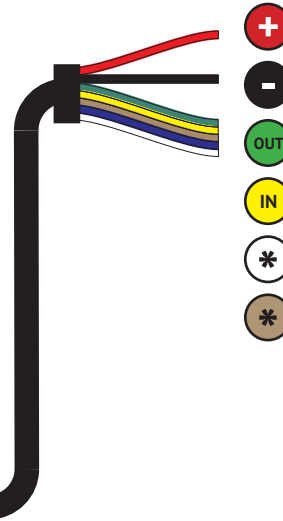
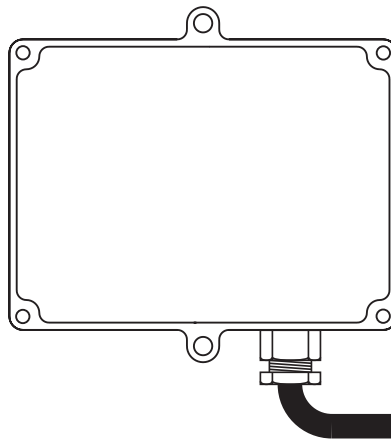
WIRELESS REMOTE to COMPACT WINCH SOLENOID

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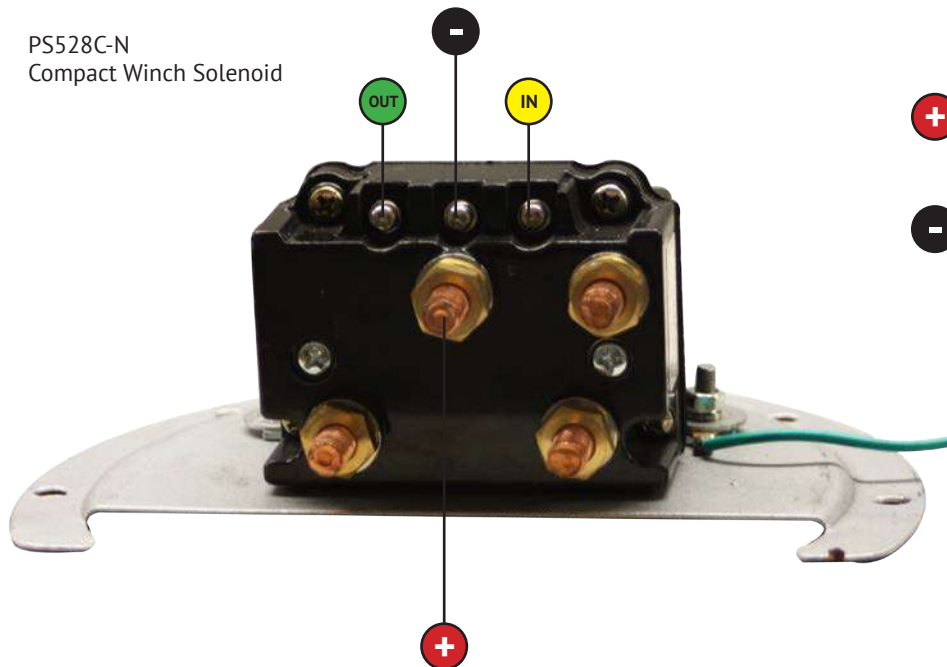
PS002 Wireless Remote transmitter



PS002 Wireless Remote receiver



PS528C-N Compact Winch Solenoid



- + Red (12V POWER) needs to be wired directly to the battery.
- Black (GROUND) needs to be wired directly to the battery.

CATEGORY	REMOTE
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PART NO.	PS002 to PS528C-N
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PRODUCT DESCRIPTION
Two-Function Wireless Remote to Compact Winch Solenoid

WIRING DESCRIPTION
This chart depicts wiring from a Pierce PS002 wireless remote to a Pierce PS528C-N compact winch solenoid.
NOTE: The connector for the large terminals would take a 5/16" ring terminal. The connector for the small screws would take a #5 ring terminal.

WIRING CHART
Connect the wires to the corresponding signs.
+ 12 V (red)
- GROUND (black)
OUT OUT (green)
IN IN (yellow)
* NOT USED (white)
* NOT USED (brown)

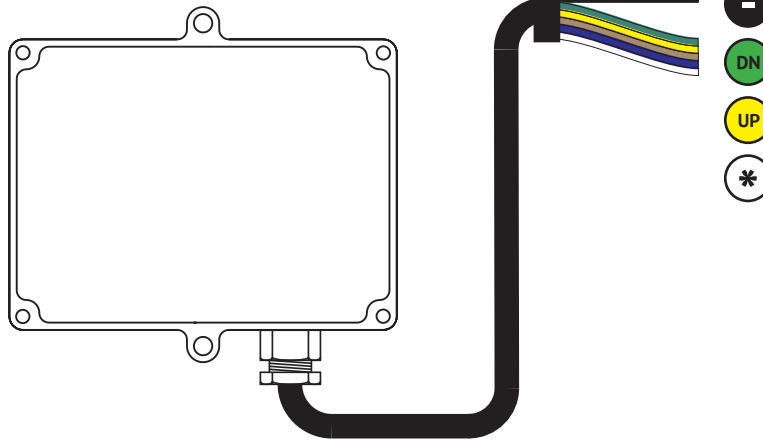
WIRELESS REMOTE to COMPACT SOLENOID ASSEMBLY

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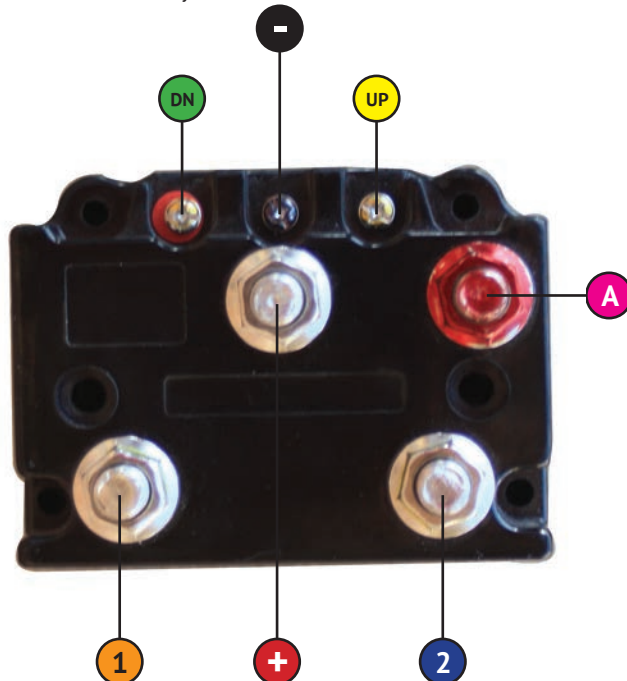
PS002 Wireless Remote transmitter



PS002 Wireless Remote receiver



PS528N Compact Solenoid Assembly



- +** Red (12V POWER) needs to be wired directly to the battery.
- Black (GROUND) needs to be wired directly to the battery.

CATEGORY	REMOTE
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PART NO.	PS002 to PS528N
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PRODUCT DESCRIPTION
Two-Function Wireless Remote to Compact Solenoid Assembly

WIRING DESCRIPTION
This chart depicts wiring from a Pierce PS002 wireless remote to a Pierce PS528N compact solenoid assembly.
NOTE: The connector for the large terminals would take a 5/16" ring terminal. The connector for the small screws would take a #5 ring terminal.

WIRING CHART

Connect the wires to the corresponding signs.

- | | |
|-------------------------|---------------------------------------|
| + 12 V (red) | * NOT USED (white) |
| - GROUND (black) | 1 F1 TO THE MOTOR (orange) |
| DN DOWN (green) | 2 F2 TO THE MOTOR (blue) |
| UP UP (yellow) | A ARMATURE TO THE MOTOR (pink) |

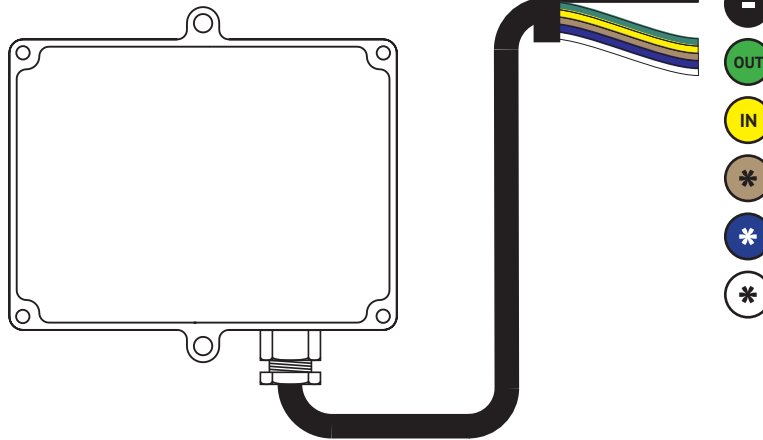
WIRELESS REMOTE to ROUND SOLENOID ASSEMBLY

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PS002 Wireless Remote transmitter

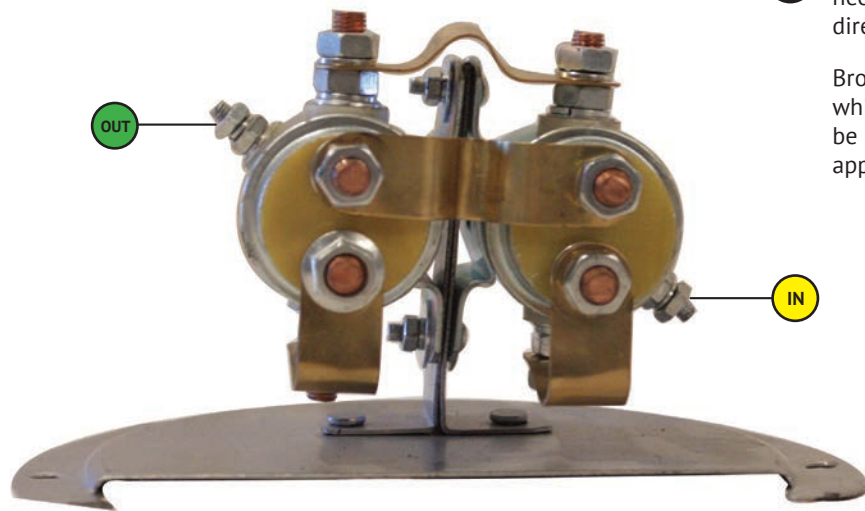


PS002 Wireless Remote receiver



- +
-
- OUT
- IN
- *
- *
- *

PS528C Round Solenoid Assembly



- + Red (12V POWER) needs to be wired directly to the battery.
- Black (GROUND) needs to be wired directly to the battery.

Brown, blue, and white will not be used in this application.

CATEGORY	REMOTE
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PART NO.	PS002 to PS528C
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PRODUCT DESCRIPTION
Two-Function Wireless Remote to Round Solenoid Assembly

WIRING DESCRIPTION
This chart depicts wiring from a Pierce PS002 wireless remote to a Pierce PS528C Round Solenoid Assembly.
NOTE: Use #2 or #4 gauge cable for all connections. Use a 5/16-18" x 3/4" bolt for the ground connection. Wiring not included.

WIRING CHART	
Connect the wires to the corresponding signs.	
+ 12 V (red)	* NOT USED (brown)
- GROUND (black)	* NOT USED (blue)
OUT OUT (green)	* NOT USED (white)
IN IN (yellow)	