

1 BEFORE YOU START

- The Receiver is designed to carry a maximum of 15 Amps. That is, for example, 15 Amps through one output or 5 Amps each through 3 outputs.
- Master Output. This can be configured to Continuous or Parallel operation, see overleaf for details.
- If Receiver outputs are connected in parallel with an external switching device (wired remote) the Receiver will instantly switch off when the wired remote is operated
- Lodar Receivers **MUST** have an **isolation switch** for safety, to allow for registering a replacement Transmitter.
- Safety Feature. Both the Transmitter and the Receiver will "time out" after 30 minutes of inactivity. This can be altered, 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

Shown with optional Keypad

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 9204RX and 9304RX shown,
 Waterproof to IP67, complete with 3 metres (10 ft) cables

92 00 RX & 93 00 RX have 4 core cable

92 02/4 RX & 93 02/4 RX have 7 core cable

Secure using 5mm (3/16") bolts (not supplied) through the 4 mounting feet

4 CONNECT WIRES

Transmitter Function Convention

Make notes about the connections made in the boxes below

Wire Colour	Wire used for	9200RX and 9300RX	9202RX and 9302RX	9204RX and 9304RX
RED	12/24 Volts DC Nominal Positive Supply			
BLACK	Negative			
GREEN	Output Function 1			
YELLOW	Output Function 2			
BROWN	Output Function 3	Not Present	Not Used	
BLUE	Output Function 4	Not Present	Not Used	
WHITE	Output Function Master	Not Present		

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

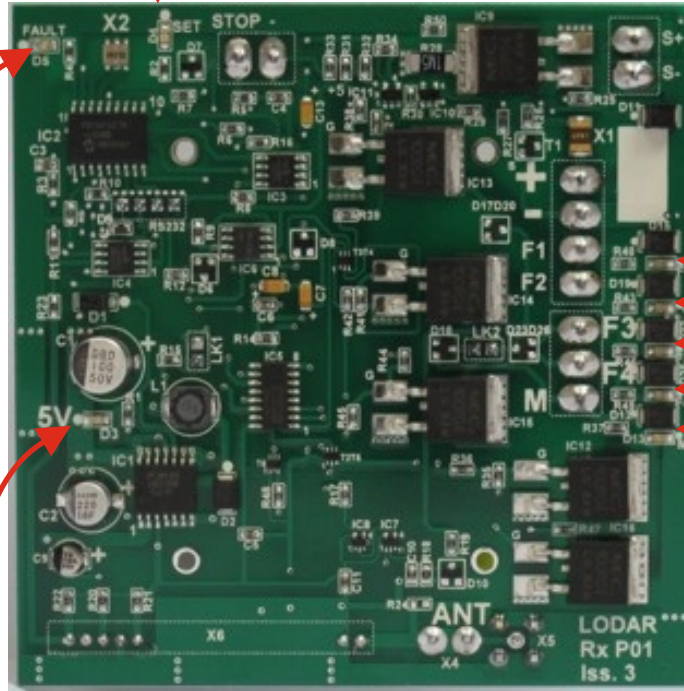
6 CONNECT TRANSMITTER BATTERY

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.

Component Detail



LED marked "SET"
Indicates system is active

LED's marked "F1 - F2 - F3 - F4 and M"
When ON indicate an output to that function

LED marked "FAULT"
Indicates an overload is present; the System cannot be **RESET** until overload is removed.

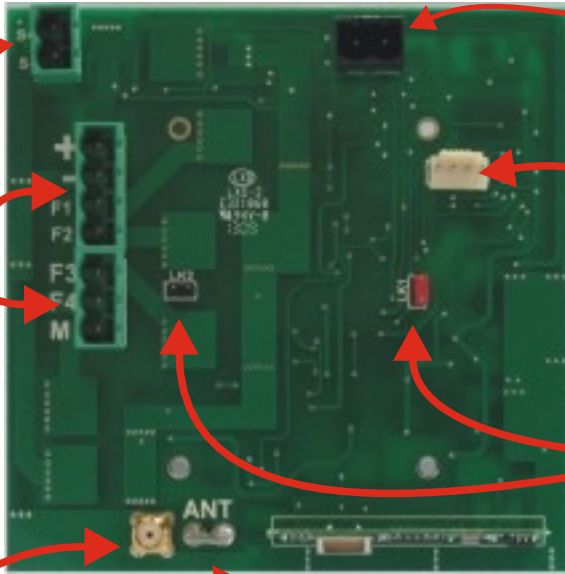
This LED blinks for 20 seconds when the Receiver is initially powered. A replacement Transmitter has to be registered during this 20 second period.

LED marked "5V"
Indicates power supply for control circuits is OK

VOLTAGE
Working Range
12 Volts to 36 Volts DC

Limits
8 Volts minimum to 40 Volts absolute max.

Connection Detail



S-, S+ Connections For Safety Solenoid etc. Part No. 9820 or 9821

STOP and -, when connected together will cause the Receiver to power down

Supply 12/24 V DC 40 Volts ABSOLUTE MAX

Outputs sockets +, -, F1 & F2, F3, F4, and Master.

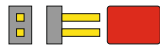
The Receiver is designed to handle 15 Amps, current draw in excess of this will trigger a system shut down.

Any output can handle this maximum current.

RS232 connection for programming and special features

SMA connector for External Aerial Antenna Part No. 9861, 9862, 9863 or 9869


Standard (Internal) Antenna connection


Lk1, when bridged causes the Master Output to be Parallel

Lk2, when bridged causes the Master Output to be Continuous

Jumper MUST be fitted to only ONE link

POWER DOWN RECEIVER BEFORE MAKING CHANGES

 Your product is marked with this symbol. It means that used electrical and electronic products should not be mixed with general household waste. There is a separate collection system for these products.
In the EEC - Please contact your National Distributor (see www.lodar.com for this information) who will inform you about the take-back of the product. You might be charged for the costs arising from the take-back and recycling. Small products might be taken back by your local collection facilities.
Outside the EEC - If you wish to discard this product please contact your local authorities and ask for the correct method of disposal

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