



Welcome to Lodar®.

Probably the best Radio Control System at an affordable price.

Twenty-five years ago Electric winches were operated by hard wired controls. All Hydraulic winches were controlled by levers. Television was now being operated remotely, so why not winches? "Infra red" was not suitable but "radio" proved to be a successful option. **A market was born.**

Europe immediately embraced this technology and soon most commercial vehicles were fitted with electro-hydraulic valves, to accommodate this remote radio switching option. America stayed with hydraulic simplicity. However, the persistence of a few radio control manufacturers slowly convinced the market to embrace this concept. US builders now regularly provide radio control as an option and, in many cases, as standard equipment. Today, the radio control industry is sophisticated and diverse, providing remote switching systems for a wide variety of applications.

Lodar® is an industry leader, focused on safety with new product being constantly developed to maintain a competitive edge. Lodar® has a dedicated service team. We recognize that customers demand prompt attention when something is not right – Lodar® provides that total support.

Go with your imagination - allow Lodar® to take control.

1. SAFETY

Is your team working in a safe environment? Stay away from danger zones – have control at 200 or 1,000-foot distance, depending on the model. Lodar® is made to the highest safety standards, with the ability to perform in the harshest of environments.

2. COST EFFECTIVE

Long wiring runs are expensive and incur labor costs. Lodar® can eliminate these costs by wiring the Receiver close to the valve controls. Lodar® pays for itself by decreasing manpower – two or three man jobs can be completed by one operator.

3. FAST AND KNOWLEDGEABLE SERVICE

Lodar's® dedicated Service Team, based in Henrietta, Texas, assists customers with installation, troubleshooting and warranty issues. This Service Team will, if possible, resolve any issues over the phone. If necessary we will ship a replacement system within 24 hours, allowing you to return the faulty system within 7 days.

4. WARRANTY

Our **5-year pro-rated warranty** is exceptional.

For the first 2 years, the warranty is unlimited. We will repair or replace free of charge, at our discretion, any product that is proved to be faulty due to poor manufacturing.

For the following 3 years, the warranty is pro-rated. We will replace faulty product with new product at an attractive discounted price.

5. CORPORATE LONGEVITY

Lodar®, the brand name, was created in the UK in 1988 by Skidmore 4WD Ltd. Martin Skidmore, a three-time National Landrover Champion and Tim Halford, the main Superwinch distributor, found a need in the market for radio switching systems.

Over the years these two friends have built a global brand with an impressive list of Distributors, supplying a wide variety of industries. These Distributors are able to help customers find the best system for their individual needs

In 2013 Skidmore 4WD Ltd changed its name to Lodar® Ltd., to better reflect the direction of the company. In the US, after 20 years of trading as Lodar®, the name was changed to Lodar® USA.

6. ALLOW LODAR® TO TAKE CONTROL

Lodar® allows you to control, move, ramp up, start, switch, activate, deactivate or operate multiple functions at any given time.

Visit www.lodar.com and call your local Distributor for more information. Allow them to explain how Lodar® can improve your company's performance. **Lodar® Ltd is a registered ISO9001 and ISO14001 company.**



TRANSMITTERS



Mini
Functions: 2 / 4



Standard
Functions: 1 / 2 / 4 / 6



IP
Functions: 2 / 4 / 6 / 10 / 16 / 20



Stainless
Functions: 2 / 4 / 6

NEW



Shift
Functions: 40

RECEIVERS DC



Mini FETS
Functions: 2



Standard Relays
Functions: 2 / 4*



Standard FETS
Functions: 1 / 2* / 4 / 6



Deep FETS
Functions: 10 / 16 / 20*



NEW **Standard FETS Keypad**
Functions: 2* / 4* / 6*

RECEIVER AC



Standard Relays
Functions: 2* / 4*



* As Illustrated.

The Locator, shown holding the Transmitter, is an optional accessory. See page 11 for more information.

TRANSMITTERS

Choosing the right Transmitter is the first step to finding your Lodar® system. With up to 20 functions available (40 functions with Shift), Lodar® can satisfy operators across a broad range of industries.

FEATURES COMMON TO ALL TRANSMITTERS

- RED BUTTON – turns Receiver **off**
- GREEN BUTTON – turns Receiver **on**
- LOW BATTERY – fast flashing LED
- EASY CODING – over 16 million codes for safety



Mini

- Suitable for light industrial applications.
- IP 67 waterproof rating.
- Fits nicely in the palm of your hand.
- Facia Customization Available.

SPECIFICATIONS

- SWITCH**
- Rubber membrane with carbon contact
- BATTERY**
- 2 x AAA alkaline manganese (3 Volts)
- CURRENT DRAW**
- Quiescent: 4 micro amps
 - Operating: 20 milliamps
- PROTECTION**
- Reverse Polarity: Protected
 - IP Rating: 67
 - Registration Codes: Over 16 million
- PERFORMANCE**
- Temp. Range: -10°C to +40°C (13°F to +104°F)
 - Range: 150 feet from the Receiver, when driving a momentary output, without signal drop out. 500-ft. option available.
 - Transmitted Power: 1 mW Typical

COMPLIANCE

See page 7 for more information.



Standard

- Established in the Lodar® range for over 10 years.
- IP 55 water resistant rating.
- Large membrane buttons on a wipe clean surface.
- Enclosed with PVC LoCover, fits firmly in the hand.
- Function Button Customization. – see page 6

SPECIFICATIONS

- SWITCH**
- Tactile Dome
- BATTERY**
- 1xPP9 alkaline manganese (9 Volts)
- CURRENT DRAW**
- Quiescent: 4 micro amps
 - Operating: 20 milliamps
- PROTECTION**
- Reverse Polarity: Protected
 - IP Rating: 55
 - Registration Codes: Over 16 million
- PERFORMANCE**
- Temp. Range: -10°C to +40°C (13°F to +104°F)
 - Range: 200 feet from the Receiver, when driving a momentary output, without signal drop out. 1,000-ft. option available.
 - Transmitted Power: 1 mW Typical

COMPLIANCE

See page 7 for more information.



IP

- A robust Transmitter with IP67 waterproof rating.
- Large membrane buttons on a wipe clean surface.
- Function Button Customization. – see page 6

SPECIFICATIONS

- SWITCH**
- Tactile Dome
- BATTERY**
- 4 x AAA alkaline manganese (6 Volts)
- CURRENT DRAW**
- Quiescent: 15 micro amps
 - Operating: 24 milliamps
- PROTECTION**
- Reverse Polarity: Protected
 - IP Rating: 67
 - Registration Codes: Over 16 million
- PERFORMANCE**
- Temp. Range: -10°C to +40°C (13°F to +104°F)
 - Range: 200 feet from the Receiver, when driving a momentary output, without signal drop out. 1,000-ft. option available.
 - Transmitted Power: 1 mW Typical

COMPLIANCE

See page 7 for more information.



NEW! One Function Transmitter

Lodar® now offers a One Function wireless option. Turn the power ON/OFF to generators, water pumps, lights etc. The special One Function Receiver has two outputs, one momentary and one latching – take your pick.

See Standard Transmitter for full specification on page 4.



NEW! Stainless Transmitter

The Stainless Steel faceplate, with vandal proof security buttons, is designed to work in the harshest of environments. Ideal where the function buttons are in use 24/7.

This 6 function IP enclosure can either be used for 2 or 4 function operations or modified with "SHIFT" to give up to 12 functions. All with the relevant Receiver.

See IP Transmitter for full specification on page 4.



21-40 Function with SHIFT Option

The "SHIFT" option on this robust Transmitter allows a mode change by simply depressing the Green Restart Button. Different LED's on the Transmitter indicate the relevant mode, which will be matched with the required Receiver(s).

Fewer functions can also be operated this way when using smaller Transmitters with relevant Receivers. For example, if you feel a single 20 function Transmitter is too large then you can chose to have a 10 function Transmitter in mode format – 2 x10 functions.

See IP Transmitter for full specification on page 4.

The Locator is an optional accessory. See page 12 for more information.

RECEIVERS

MASTER OUTPUT - WHAT IS THAT?

Most models are fitted with a Master Output, giving an extra independent control from the Transmitter. Examples of use:

- An electro hydraulic power pack
- A clutch pump
- A dump valve

The Master Output is configured for *parallel* operation with any output i.e, it will turn on/off as the function buttons are operated.

The Master can also be configured *continuously* if required, for example, when the Receiver needs to be active all the time.

The Master can also be removed from operation on a function-by-function basis, if required. It is totally flexible in its application.

Mini RX 3 amp FET's

Compact Receiver for small spaces.



- **Functions:** 2
- **Material:** Black PVC Base & Lid
- **IP Rating:** 67
- **Switching:** 3 amp FET's
- **Master:** Optional
- **Size:** 4.7 x 3.5 x 1.6 in.
- **Transmitters:** Mini / Standard
- **Range:** 150 ft. with Mini Transmitter
500 ft. option available
200 ft. with Standard Transmitter
1,000 ft. option available

Standard Receiver 5 amp Relays

Cost effective version of the 15 amp system.



- **Functions:** 2 / 4
- **Material:** Black PVC Base & Lid
- **IP Rating:** 67
- **Switching:** 5 amp Relays
- **Master:** Optional
- **Size:** 5.9 x 4.7 x 2 in
- **Transmitters:** Mini/Standard
- **Range:** 150 ft. with Mini Transmitter
500 ft. option available
200 ft. with Standard Transmitter
1,000 ft. option available



Standard Receiver – 15 amp FET's

Clear Lid allows sight of LED's for fault finding.

- **Functions:** 2 / 4 / 6
- **Material:** Black PVC Base & Clear Lid
- **IP Rating:** 67
- **Switching:** 15 amp FET's
- **Master:** Optional
- **Size:** 5.9 x 4.7 x 2 in
- **Transmitters:** Mini/Standard/IP
- **Range:** 150 ft. with Mini Transmitter
500 ft. option available
200 ft. with Standard Transmitter
1,000 ft. option available

Deep Receiver – 15 amp FET's

Clear Lid allows sight of LED's for fault finding. 2 cm deeper base to allow for extra wiring. Same footprint as Standard Receiver.

- **Functions:** 10 / 16 / 20
- **Material:** Black PVC Base & Clear Lid
- **IP Rating:** 67
- **Switching:** 15 amp FET's
- **Master:** Optional
- **Size:** 5.9 x 4.7 x 2.75 in.
- **Transmitters:** Mini/Standard/IP
- **Range:** 150 ft. with Mini Transmitter
500 ft. option available
200 ft. with Standard Transmitter
1,000 ft. option available

NEW

Keypad Receiver – 15 amp FET's

Clear Lid allows sight of LED's for fault finding. Back up keypad in the event of a lost Transmitter. Security Code option available.

- **Functions:** 2 / 4 / 6
- **Material:** Black PVC Base & Clear Lid
- **IP Rating:** 67
- **Switching:** 15 amp FET's
- **Master:** Optional
- **Size:** 5.9 x 4.7 x 2 in.
- **Transmitters:** Mini/Standard/IP
- **Range:** 150 ft. with Mini Transmitter
500 ft. option available
200 ft. with Standard Transmitter
1,000 ft. option available

Lodar® meets the following safety standards.

Lodar® is built in the UK and complies with all relevant safety and operational standards.

• EN 301 489-3		• FCC	Approval Granted
• R&TTE	(1999/5/EC)	• Spectrum	433.92 MHz F1D CE!
• SAFETY	Low Voltage Directive 300.683		CE !
	EN ISO 13849-1 2008 to Category 4 -		418.00 MHz F1D CE!
	replaces BS EN 954-1		CE !
	BS EN 60204-1	• Lodar® Ltd. is an ISO9001 and 14001	
• EMC	2004/104/EEC	approved company.	
	ETSI 300-220 v1.1.1		
	Approval Mark e11 037601		

Warranty

Our **5-year pro-rated warranty** is exceptional and rare.

For the first 2 years, warranty is unlimited. During that period our Service Department will repair or replace, free of charge and at their discretion, any product that is proved to be faulty due to poor manufacturing. The warranty period is taken from the date the goods leave our factory, although we will accept a later date if the Distributor can confirm date of purchase.

For the following 3 years, the warranty is pro-rated. During that period, they will replace faulty product with new product at an attractive discounted price. Each Distributor sets these prices.

Limited Warranty.

Lodar Ltd ("Seller") warrants to the original buyer ("You") all parts and components to be free of faults in materials workmanship for a period of two (2) years from provable date of purchase. Any Lodar® product that is faulty will be repaired or replaced without charge to you, upon compliance with these procedures. The Warranties set forth herein are exclusive and in lieu of all other Warranties, whether oral or written, express or implied.

Limited Warranty Performance Procedure

Upon discovery of a faulty Lodar® product, you shall notify the Seller in writing, at his factory or at any authorized distributor, details of the said fault and mail, or otherwise ship the faulty Lodar® product, postage or other carriage prepaid. Repairs or replacements by the Seller under this Limited Warranty will normally be accomplished within fifteen (15) working days after the receipt of the faulty Lodar® product. The Seller, or its authorized distributor, may make reasonable charges for repairs that are not covered by this Limited Warranty.

Warranty and Remedy Limitations and Exclusions

The following exclusions or limitations of Warranties and limitations of remedies shall be expressly applicable:

Express Warranties. Seller warrants that the Lodar® is as described in the "Lodar® Owners Manual" provided herewith; no other express Warranty is made in respect to the Lodar®. If any model or sample was shown to you, such model or sample was used for illustrative purposes only, and shall not be construed as a Warranty that the Lodar® will conform to the sample or model.

Implied Warranties. The implied Warranty of merchantability and all other implied Warranties shall only extend from the provable date of purchase for two (2) years. Some States within the USA do not allow limitations on how long an implied Warranty lasts, so the above limitation may not apply to you.

Incidental and Consequential Damage. Subject to the Sellers Limited Warranty obligations set forth herein, the Seller shall not be responsible for incidental damages of any kind, or for consequential damages to property, loss of profits and loss of use which may be caused by any fault in, or malfunction, or failure of the enclosed Lodar®. Some States within the USA do not allow the exclusion or limitation of incidental or consequential damages, so the above limitation may not apply to you.

Condition of Warranty. The Seller shall not be required to comply with its Warranty duties provided herein if the fault, malfunction or failure of the Lodar® was caused by damage (not resulting from faulty or malfunctioning components) or unreasonable use by you. Unreasonable use shall include, but not be limited to, the failure to provide reasonable and necessary maintenance or installation or use of the Lodar® without compliance with the instructions contained in the Lodar® Owners manual. Sellers liability under this Warranty or for any loss or damage to the Lodar product shall not exceed the cost of correcting the defects in or replacing the Lodar® product, and upon expiration of the Warranty period, all such liability shall terminate. The agents, distributors and employees of the Seller are not authorized to make modifications to this Warranty, or additional Warranties binding on the Seller. Accordingly, additional statements, whether oral or written, do not constitute Warranties and should not be relied upon.

Legal Remedies of the Buyer

This limited Warranty gives you specific legal rights, and you may also have other legal rights, which may vary from State to State within the USA and from country to country. You also have implied Warranty rights. In the event of a problem with Limited Warranty service or performance, you may be able to go to a small claims court, a state court or a federal district court in the USA or to appropriate jurisdictions outside the USA.

Inquiries

Any inquiries regarding compliance with Warranties provided herein may be addressed in writing to: **Lodar® Limited, 60 Sandwell Street, Walsall WS1 3EB, England.**

CUSTOMIZING

TRANSMITTER CUSTOMIZING

Since Lodar® is used in many different applications, our Transmitters can be customized to fit your needs. The following customizations are possible:



MAGNETS

Lodar® Standard and IP Transmitters can be fitted with magnets to enable you to place the transmitter on a metal surface.

For OEMs buying in volume, we can private label the Transmitter with your brand. Tooling charges apply.

CONFIGURE LEGENDS

Choose the right legend to fit your applications. We have hundreds of options possible. Service is complementary.

Go to:
www.lodar.com/inserts.htm

WATCH THE VIDEO

Learn how to choose your legends by watching the video!
www.youtube.com/lodarsales

RECEIVER CUSTOMIZING

All Lodar® is set up in the factory with momentary functions, horizontal interlocks and a 30 minute automatic timeout.

Lodar's® sophisticated software can be modified for a wide variety of applications providing endless possibilities.

CUSTOMIZING

TIMED LIMITS

Using software modifications, Receivers can be set to operate with a variety of timings. An example might be where a delay is required for a function to activate **AFTER** the Transmitter function button has been pressed.

REMOVE THE MASTER OUTPUT

You may wish to have the parallel Master operational on certain functions and not on others – modified software can achieve this.

SWITCHES

Add switches to the side of the Receiver to cut off power and control the system.

LATCHING

Where a function is being operated for an extended period it may be wise to consider a latching option – once pressed, the button will stay on until it is pressed again to turn it off. Latching is great for long winch lines or cycle times but you need to consider safety – you must be able to turn it off!

REMOVE INTERLOCKING

All Lodar® units are factory set with horizontal interlocking, that is to say you cannot activate an output on function two when function one is operational. A bad idea for a motor – it would not like to go both ways at the same time! A software change would allow either the removal of any interlocks, the establishment of vertical as opposed to horizontal interlocks or, in fact, any sequences that you might want.



+ WIRING HARNESS

Lodar® 2 / 4 / 6 function systems come with a 10 foot wiring harness. We can make up any harness you wish, from your own wiring diagrams, to speed up installation in a production line. The use of SureSeal connections, shown above, can also provide a waterproof connection in the harness.



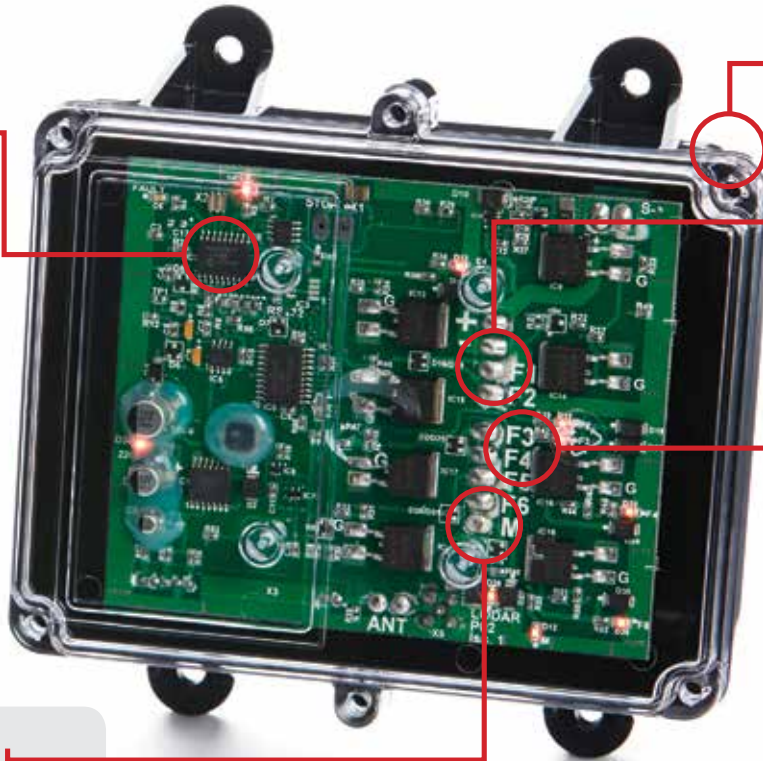
+ CONTROL MULTIPLE RECEIVER

Lodar® can be programmed to control multiple Receivers from the same Transmitter (e.g. to open a number of doors simultaneously). Alternatively, there may be a number of Receivers required in different locations - one Transmitter can be set up to open each of them individually.



+ POTTING / RUGGEDIZATION

Rough conditions? Potting protects the Receiver PCB board from extreme vibration. A silicone gel covers all the electronic components.



Why do I need an Actuator System? Why can't I use a normal radio remote control system?

There are many trucks in the market where, historically, the only means of controlling the vehicle functions are by hydraulic valves with levers – and they continue to build these vehicles.

Working these functions by a radio remote control is becoming more and more popular. The obvious safety benefits, as well as the flexibility to manage the recovery with just a single operator, are together proving to be a necessity, not just an option.

With only hydraulic controls, however, there is nothing to switch; no electrical control at all. The only choice available, for those that want to convert to radio control, is to change to electro-hydraulic valves. This would provide an electrical switching option but at a cost that most operators would not consider.

ELECTRIC

No air supply? Existing faulty electric actuator?

The Lodar® Radio Remote System supplied is specially modified to work with the Actus Actuator, controlling all functions up to 200 feet away. It is easy to install and does not require any welding or air supply.

Safety consideration is foremost in this design. The internal clutch system releases automatically when power or signal is lost, allowing the actuator to safely “float” to a pre-set safe position. The rugged, cast aluminum body of the actuator is dust and water resistant and factory lubricated.

The Actuator itself is fitted below the lever control rod, with one end attached to the rod itself, by means of a simple clamping bracket. The other end is attached to the chassis.

The functions are switched by the Lodar Radio Remote Transmitter/Receiver system.

Can you have more than one valve operated by this system?

Yes. We offer up to 6 functions (3 Actuators) for the ultimate vehicle control. Discuss your requirements with your local Distributor.

Can I operate the levers, even though there is an Actuator fitted?

Yes, you can override the Actuator control at any time.

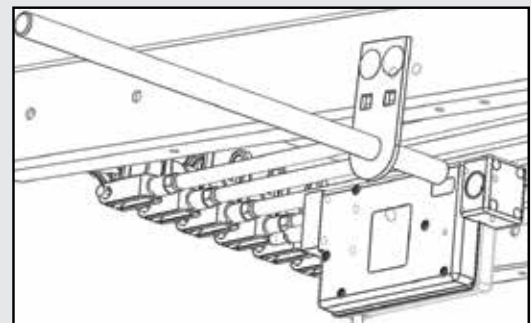
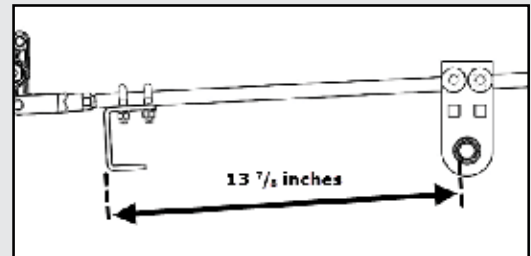
Can I fit this system to any vehicle?

As long as there is a control rod for the Actuator to be fitted to then this system is universal.

The Lodar® system supplied is specially modified to work with the Actus Actuator, controlling both functions up to 200 feet away.

For basic specifications refer to Standard Transmitter on page 4 and Standard Receiver on page 6.

** For more detailed specification information about the actuators, go to www.lodar.com.*



AIR

The Air Actuator System by Lodar will now allow your vehicle to be easily and inexpensively converted to the radio remote control option, by providing electrically operated air valves. These control the Air Actuator.

The Actuator itself is fitted above the lever control rod, with one end attached to the rod itself and the other end to the chassis. The air supply is controlled through the air valves (see fitting drawing) which, in turn, are switched by the Lodar Radio Remote Transmitter/Receiver system.



Can you have more than one valve operated by this system?

Yes. We offer up to 16 functions (8 Actuators) for the ultimate vehicle control.

Discuss your requirements with your local Distributor.

What if I do not have an air supply on the vehicle?

The purchase of a small, inexpensive air compressor will resolve this problem.

It is always a good idea, anyway, to have an air supply available.

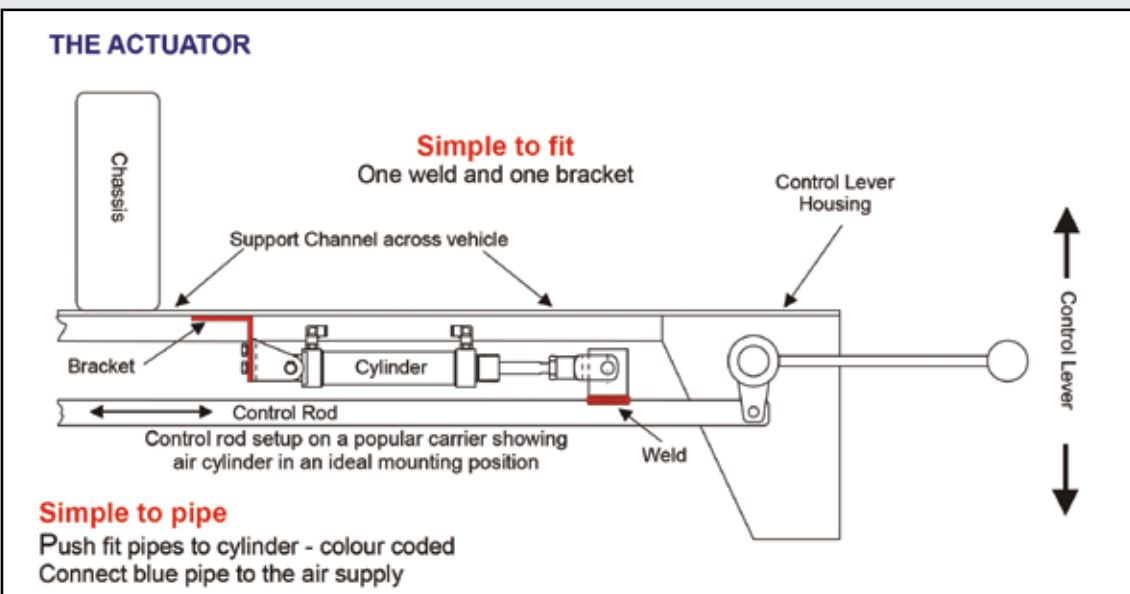
Can I operate the levers, even though there is an Actuator fitted?

Yes, you can override the Actuator control at any time.

Can I fit this system to any vehicle?

As long as there is a control rod for the Actuator to be fitted to then this system is universal.

** For more detailed specification information about the actuators, go to www.lodar.com.*



LOCATORS

Lodar® offers two styles of LoCator, housing the Transmitter when it's not in use. Choose between a basic LoCator or one with a buzzer and light, used to warn that the Transmitter is missing from its' holder. Alert settings are chosen on the back of the LoCator and can be customized.



- 9812 LoCator for Standard & IP Transmitters
- 9813 LoCator for Standard & IP Transmitters with Buzzer/LED

WATCH THE VIDEO

Learn about our LoCators by watching the video!
www.youtube.com/lodarsales

LOCOVERS

If the Transmitters are used in dusty or very dirty environments a LoCover might help prolong the life of the keypad. A lanyard is included.

Standard Transmitters are supplied with Part 9801.

- 9801 Silicone – supplied with all Standard Transmitters
- 9802 Clear Plastic IP67 - all Standard Transmitters
- 9804 Fabric/Clear Face - 2-6 Function Standard Transmitters
- 9805 Fabric/Clear Face - 2-6 Function IP Transmitters
- 9806 Fabric/Clear Face - 10 Function IP Transmitter
- 9807 Fabric/Clear Face - 16 Function IP Transmitter
- 9808 Fabric/Clear Face - 20 Function IP Transmitter





BACK UP SYSTEM

Lodar® has a range of hard wired remote controls that connect directly to the Receiver, ideal if the Transmitter is mislaid or damaged. These controls use the same enclosure as the IP Transmitters but have a high quality “curly” cable attached, stretching out from 1.5 feet to 15 feet. The cable will not lose its shape if used continuously.

- 9602 2 Function Wired Remote
- 9604 4 Function Wired Remote
- 9606 6 Function Wired Remote
- 9610 10 Function Wired Remote
- 9616 16 Function Wired Remote
- 9620 20 Function Wired Remote



EXTERNAL AERIALS

Lodar® performance may be compromised if the Receiver is mounted in a position that causes the reception to be reduced, such as in a toolbox or deep in the chassis. Adding an external aerial maintains full operating range of 200 foot or 1,000 foot in these adverse conditions. An external aerial is simply added to the SMA fitting on the PCB. An aerial will NOT increase the stated range.

Please note: you will need to request an SMA connector, if ordering a 2 function in the 90 or 91 series. It does not come as standard and will have to be soldered to the Receiver PCB.

- 9010 SMA Aerial Connector for 90 & 91 Series
- 9860 Aerial mast only
- 9861 Aerial with 3.3 feet of Cable & Aerial Mast
- 9862 Aerial with 5.3 feet of Cable & Aerial Mast
- 9863 Aerial with 10 feet of Cable & Aerial Mast
- 9869 Aerial with 30 feet of Cable & Aerial Mast



SOLENOIDS

Lodar® has a range of high quality solenoids, to carry loads that are well in excess of the 15 amp relays in the Receivers. Ask your local Distributor for more information.

- 9820 Solenoid 12v, Motor Isolation (Continuously Rated)
- 9821 Solenoid 24v, Motor Isolation (Continuously Rated)
- 9822 Solenoid 12v, DC Motor Forward/Reverse Standard
- 9823 Solenoid 24v, DC Motor Forward/Reverse Standard
- 9824 Solenoid 12v, DC Motor Forward/Reverse Heavy Duty
- 9825 Solenoid 24v, DC Motor Forward/Reverse Heavy Duty
- 9826 Relay 12v Changeover
- 9827 Relay 24v Changeover

TRANSMITTER AND RECEIVER SYSTEMS DC

Relays 5 amp

150 FT. RANGE

90 0 00	2 Function Relay Receiver & Mini Transmitter
90 0 02	2 Function Relay Receiver + Master & Mini Transmitter
90 0 04	4 Function Relay Receiver + Master & Mini Transmitter

200 FT. RANGE

90 1 00	2 Function Relay Receiver & Standard Transmitter
90 1 01	1 Function Relay Receiver & Standard Transmitter
90 1 02	2 Function Relay Receiver + Master & Standard Transmitter
90 1 04	4 Function Relay Receiver + Master & Standard Transmitter

500 FT. RANGE

91 0 00	2 Function Relay Receiver & Mini Transmitter
91 0 02	2 Function Relay Receiver + Master & Mini Transmitter
91 0 04	4 Function Relay Receiver + Master & Mini Transmitter

1000 FT. RANGE

91 1 00	2 Function Relay Receiver & Standard Transmitter
91 1 01	1 Function Relay Receiver & Standard Transmitter
91 1 02	2 Function Relay Receiver + Master & Standard Transmitter
91 1 04	4 Function Relay Receiver + Master & Standard Transmitter

FET's 3 amp

150 FT. RANGE

11 00 00	2 Function FET Mini Receiver & Mini Transmitter
11 00 02	2 Function FET Mini Receiver + Master & Mini Transmitter

200 FT. RANGE

11 10 00	2 Function FET Mini Receiver & Standard Transmitter
11 10 02	2 Function FET Mini Receiver + Master & Standard Transmitter

FET's 15 amp

150 FT. RANGE

92 0 00	2 Function FET Receiver & Mini Transmitter
92 0 02	2 Function FET Receiver + Master & Mini Transmitter
92 0 04	4 Function FET Receiver + Master & Mini Transmitter
92 0 00K	2 Function FET Receiver + Keypad & Mini TX
92 0 02K	2 Function FET Receiver + Keypad, Master & Mini TX
92 0 04K	4 Function FET Receiver + Keypad, Master & Mini TX

200 FT. RANGE

92 1 00	2 Function FET Receiver & Standard Transmitter
92 1 01	1 Function FET Receiver & Standard Transmitter
92 1 02	2 Function FET Receiver + Master & Standard Transmitter
92 1 04	4 Function FET Receiver + Master & Standard Transmitter
92 1 06	6 Function FET Receiver + Master & Standard Transmitter

92 1 00K	2 Function FET Receiver + Keypad & Standard Transmitter
92 1 02K	2 Function FET Receiver + Keypad, Master & Standard TX
92 1 04K	4 Function FET Receiver + Keypad, Master & Standard TX
92 1 06K	6 Function FET Receiver + Keypad, Master & Standard TX

92 2 02	2 Function FET Receiver + Master & IP Series Transmitter
92 2 04	4 Function FET Receiver + Master & IP Series Transmitter
92 2 06	6 Function FET Receiver + Master & IP Series Transmitter
92 2 10	10 Function FET Receiver + Master & IP Series Transmitter
92 2 16	16 Function FET Receiver + Master & IP Series Transmitter
92 2 20	20 Function FET Receiver + Master & IP Series Transmitter

92 2 02K	2 Function FET Receiver + Keypad, Master & IP Series TX
92 2 04K	4 Function FET Receiver + Keypad, Master & IP Series TX
92 2 06K	6 Function FET Receiver + Keypad, Master & IP Series TX

92 3 26	20F + 6F FET RX both + Master & 20F IP Shift Transmitter
92 3 30	20F + 10F FET RX both + Master & 20F IP Shift Transmitter
92 3 36	20F + 16F FET RX both + Master & 20F IP Shift Transmitter
92 3 40	20F + 20F FET RX both + Master & 20F IP Shift Transmitter

92 S 02	2 Function FET Receiver + Master & IP TX with Stainless KP
92 S 04	4 Function FET Receiver + Master & IP TX with Stainless KP
92 S 06	6 Function FET Receiver + Master & IP TX with Stainless KP

500 FT. RANGE

93 0 00	2 Function FET Receiver & Mini Transmitter
93 0 02	2 Function FET Receiver + Master & Mini Transmitter
93 0 04	4 Function FET Receiver + Master & Mini Transmitter

93 0 00K	2 Function FET Receiver + Keypad & Mini Transmitter
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93 0 02K	2 Function FET Receiver + Keypad, Master & Mini TX
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93 0 04K	4 Function FET Receiver + Keypad, Master & Mini TX
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1000 FT. RANGE

93 1 00	2 Function FET Receiver & Standard Transmitter
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93 1 01	1 Function FET Receiver & Standard Transmitter
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93 1 02	2 Function FET Receiver + Master & Standard Transmitter
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93 1 04	4 Function FET Receiver + Master & Standard Transmitter
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93 1 06	6 Function FET Receiver + Master & Standard Transmitter
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93 1 00K	2 Function FET Receiver + Keypad & Standard Transmitter
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93 1 02K	2 Function FET Receiver + Keypad, Master & Standard Transmitter
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93 1 04K	4 Function FET Receiver + Keypad, Master & Standard Transmitter
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93 1 06K	6 Function FET Receiver + Keypad, Master & Standard Transmitter
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93 2 02	2 Function FET Receiver + Master & IP Series Transmitter
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93 2 04	4 Function FET Receiver + Master & IP Series Transmitter
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93 2 06	6 Function FET Receiver + Master & IP Series Transmitter
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93 2 10	10 Function FET Receiver + Master & IP Series Transmitter
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93 2 16	16 Function FET Receiver + Master & IP Series Transmitter
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93 2 20	20 Function FET Receiver + Master & IP Series Transmitter
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93 2 02K	2 Function FET Receiver + Keypad, Master & IP Series TX
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93 2 04K	4 Function FET Receiver + Keypad, Master & IP Series TX
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93 2 06K	6 Function FET Receiver + Keypad, Master & IP Series TX
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93 3 26	20F + 6F FET RX both + Master & 20F IP Shift Transmitter
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93 3 30	20F + 10F FET RX both + Master & 20F IP Shift Transmitter
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93 3 36	20F + 16F FET RX both + Master & 20F IP Shift Transmitter
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93 3 40	20F + 20F FET RX both + Master & 20F IP Shift Transmitter
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TRANSMITTER AND RECEIVER SYSTEMS AC

Relays 5 amp

150/200 FT. RANGE (Depends on choice of Transmitter)

96 1 00	2 Function AC Relay Receiver & Standard Transmitter
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96 1 02	2 Function AC Relay Receiver + Master & Standard Transmitter
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96 1 04	4 Function AC Relay Receiver + Master & Standard Transmitter
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96 2 00	2 Function AC Relay Receiver & IP Transmitter
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96 2 02	2 Function AC Relay Receiver + Master & IP Transmitter
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96 2 04	4 Function AC Relay Receiver + Master & IP Transmitter
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500/1000 FT. RANGE (Depends on choice of Transmitter)

97 1 00	2 Function AC Relay Receiver & Standard Transmitter
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97 1 02	2 Function AC Relay Receiver + Master & Standard Transmitter
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97 1 04	4 Function AC Relay Receiver + Master & Standard Transmitter
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97 2 00	2 Function AC Relay Receiver & IP Transmitter
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97 2 02	2 Function AC Relay Receiver + Master & IP Transmitter
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97 2 04	4 Function AC Relay Receiver + Master & IP Transmitter
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TRANSMITTERS

150 FT. RANGE

90 0 02TX	2 Function Mini Transmitter
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90 0 04TX	4 Function Mini Transmitter
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500 FT. RANGE

91 0 02TX	2 Function Mini Transmitter
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91 0 04TX	4 Function Mini Transmitter
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200 FT. RANGE

92 1 01TX	1 Function Standard Transmitter
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92 1 02TX	2 Function Standard Transmitter
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92 1 04TX	4 Function Standard Transmitter
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92 1 06TX	6 Function Standard Transmitter
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92 2 04TX	2 & 4 Function IP Transmitter (4 F Keypad only available)
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92 2 06TX	6 Function IP Transmitter
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92 2 10TX	10 Function IP Transmitter
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92 2 16TX	16 Function IP Transmitter
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92 2 20TX	20 Function IP Transmitter
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92 3 20TX	20 Function IP Transmitter + Shift Function (10 Function TX)
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92 3 32TX	32 Function IP Transmitter + Shift Function (16 Function TX)
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92 3 40TX	40 Function IP Transmitter + Shift Function (20 Function TX)
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92 S 06TX	6 Function IP TX + Stainless Keypad (HD)
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1000 FT. RANGE

93 1 01TX	1 Function Standard Transmitter
93 1 02TX	2 Function Standard Transmitter
93 1 04TX	4 Function Standard Transmitter
93 1 06TX	6 Function Standard Transmitter
93 2 04TX	2 & 4 Function IP Transmitter (4 F Keypad only available)
93 2 06TX	6 Function IP Transmitter
93 2 10TX	10 Function IP Transmitter
93 2 16TX	16 Function IP Transmitter
93 2 20TX	20 Function IP Transmitter
93 3 20TX	20 Function IP Transmitter + Shift Function (10 Function TX)
93 3 32TX	32 Function IP Transmitter + Shift Function (16 Function TX)
93 3 40TX	40 Function IP Transmitter + Shift Function (20 Function TX)
93 S 06TX	6 Function IP TX + Stainless Keypad (HD)

RECEIVERS

150/200 FT. RANGE (Depends on choice of Transmitter)

90 00 RX	2 Function Relay Receiver
90 02 RX	2 Function Relay Receiver + Master Output
90 04 RX	4 Function Relay Receiver + Master Output

500/1000 FT. RANGE (Depends on choice of Transmitter)

91 00 RX	2 Function Relay Receiver
91 02 RX	2 Function Relay Receiver + Master Output
91 04 RX	4 Function Relay Receiver + Master Output

150/200 FT. RANGE (Depends on choice of Transmitter)

92 00 RX	2 Function FET Receiver
92 02 RX	2 Function FET Receiver + Master Output
92 04 RX	4 Function FET Receiver + Master Output
92 06 RX	6 Function FET Receiver + Master Output
92 10 RX	10 Function FET Receiver + Master Output
92 16 RX	16 Function FET Receiver + Master Output
92 20 RX	20 Function FET Receiver + Master Output

92 00 RXK	2 Function FET Receiver + Keypad
92 02 RXK	2 Function FET Receiver + Master Output & Keypad
92 04 RXK	4 Function FET Receiver + Master Output & Keypad
92 06 RXK	6 Function FET Receiver + Master Output & Keypad

500/1000 FT. RANGE (Depends on choice of Transmitter)

93 00 RX	2 Function FET Receiver
93 02 RX	2 Function FET Receiver + Master Output
93 04 RX	4 Function FET Receiver + Master Output
93 06 RX	6 Function FET Receiver + Master Output
93 10 RX	10 Function FET Receiver + Master Output
93 16 RX	16 Function FET Receiver + Master Output
93 20 RX	20 Function FET Receiver + Master Output

150 / 200 FT. RANGE (Depends on choice of Transmitter)

96 00 RX	2 Function Relay Receiver AC
96 02 RX	2 Function Relay Receiver AC + Master Output
96 04 RX	4 Function Relay Receiver AC + Master Output

500 / 1000 FT. RANGE (Depends on choice of Transmitter)

97 00 RX	2 Function Relay Receiver AC
97 02 RX	2 Function Relay Receiver AC + Master Output
97 04 RX	4 Function Relay Receiver AC + Master Output

ACCESSORIES

9010	SMA aerial connector fitted to 90 & 91 series
9011	Stop & RS232 connectors fitted to 90 & 91 series
9160	10.2 ft. 2 Core Round - 32/0.2 - 1.00mm2 - SureSeal connector
9161	20.3 ft. 2 Core Round - 32/0.2 - 1.00mm2 - SureSeal connector
9170	10.2 ft. 4 Core Round - 32/0.2 - 0.75mm2 - SureSeal connector
9171	20.3 ft. 4 Core Round - 32/0.2 - 0.75mm2 - SureSeal connector
9180	10.2 ft. 7 Core Round - 32/0.2 - 0.75mm2 - SureSeal connector
9181	20.3 ft. 7 Core Round - 32/0.2 - 0.75mm2 - SureSeal connector

9604	4 Function IP Series -15 ft. curly cable wired remote control
9606	6 Function IP Series -15 ft. curly cable wired remote control
9610	10 Function IP Series -15 ft. curly cable wired remote control
9616	16 Function IP Series -15 ft. curly cable wired remote control
9620	20 Function IP Series -15 ft. curly cable wired remote control
9801	LoCover Silicone Rubber & lanyard, 2/4/6F Standard Transmitters
9802	LoCover IP67, Clear & lanyard, 2/4/6F Standard Transmitters
9804	LoCover Fabric, ZIP & lanyard Standard Transmitters + Switch
9805	LoCover Fabric & lanyard, 2/4/6F IP Series Transmitters
9806	LoCover Fabric & lanyard, 10F IP Series Transmitters
9807	LoCover Fabric & lanyard, 16F IP Series Transmitters
9808	LoCover Fabric & lanyard, 20F IP Series Transmitters TX

**All supplied with a Lanyard*

9812	LoCator for Standard & IP Transmitters
9813	Lo-Cator Electronic for Standard & IP TX, + LED & Buzzer
9815	Lo-Cator magnets fitted to 9801 Lo-Cover
9816	Lo-Cator magnets fitted to any IPTX or Pendant

9820	Solenoid 12 Volt, Motor Isolation (Continuously Rated)
9821	Solenoid 24 Volt, Motor Isolation (Continuously Rated)
9822	Solenoid 12 Volt, DC Motor Forward/Reverse Standard
9823	Solenoid 24 Volt, DC Motor Forward/Reverse Standard
9824	Solenoid 12 Volt, DC Motor Forward/Reverse Heavy Duty
9825	Solenoid 24 Volt, DC Motor Forward/Reverse Heavy Duty
9826	Relay 12 Volt
9827	Relay 24 Volt
9828	Relay 12 Volt Changeover on PCB
9829	Relay 24 Volt Changeover on PCB

9831	DC Power Filter Kit 15 amp
9832	Switch with sealing hood - Receiver ON/OFF (S35)
9833	Switch with sealing hood - Receiver ON/Master output (S37)
9834	Switch with sealing hood - Manual override 9202RX (S39)
9845	9 Volt alkaline battery pack of 10

9860	Standard Aerial Antenna Only
9861	Standard Aerial assembly + 3.25 ft. cable
9862	Standard Aerial assembly + 5.3 ft. cable
9863	Standard Aerial assembly + 10 ft. cable
9869	Standard Aerial assembly + 29 ft. cable

9871	Potting for ruggedization "90 Series" Receivers 2,4 & 6 Function
9872	Potting for ruggedization "90 Series" Receivers 10,16 & 20 F
9873	Potting for ruggedization "80 Series" Receivers 10,16 & 20 F

9881	Software Configuration 2, 4 and 6 function Receivers
9882	Software Configuration 10, 16 and 20 function Receivers
9883	Software Configuration 80 series Receivers

ACTUATORS - AIR AND ELECTRIC

200 FT. RANGE: Air Actuator System with Standard Transmitter

92 1 50	2 Function Receiver/Transmitter/Actuator 12 Volt
92 1 54	4 Function Receiver/Transmitter/Actuator 12 Volt + Master
92 1 56	6 Function Receiver/Transmitter/Actuator 12 Volt + Master
92 1 58	8 Function Receiver/Transmitter/Actuator 12 Volt + Master
92 1 60	10 Function Receiver/Transmitter/Actuator 12 Volt + Master
92 1 66	16 Function Receiver/Transmitter/Actuator 12 Volt + Master (24 Volt available on request for the same price)

9918	Air Valve only 12 Volt
9919	Actuator Kit 12V - no Actuator 9920
9920	Actuator only - with elbows and brackets

200 FT. RANGE: Electric Actuator System with Standard Transmitter

92 1 50A	Actus Actuator System c/w 2 Function FET Receiver & Standard TX
92 1 54A	Actus Actuator System c/w 4 Function FET Receiver & Standard TX
92 1 56A	Actus Actuator System c/w 6 Function FET Receiver & Standard TX (24 Volt available on request for the same price)

92 1 00A	2 Function Receiver/Transmitter - no Actuator
92 1 04A	4 Function Receiver/Transmitter - no Actuator
92 1 06A	6 Function Receiver/Transmitter - no Actuator
9930	Actus Actuator Kit Only - no Radio System



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