

## RODTRONICS CORPORATION REMOTE CONTROL SYSTEM MODEL RC290

Congratulations! You have just purchased the finest remote control system available for door and trunk solenoids. Everything you need to install remote controlled electric door latches is contained in this kit, one stop shopping. The purpose of this system is to provide remote control for the door or trunk actuators of your rod/custom.

### **For a proper and safe Installation Read the entire manual before Installation**

#### FEATURES:

- Independent control of the driver and passenger doors latches. ( Or 1 door and the trunk )
- Easy to install; only 6 electrical connections are required.
- 4096 different codes severely limits the chances of duplicate codes.
- The power to the actuators is disconnected whenever the ignition wire is at + 12 volts. This insures that there will be no accidental door ( or trunk ) openings while you're driving down the road.
- The actuators provided in this kit can be wired to pull or push the door latch lever.
- The motor driven actuators supplied in this kit require much less current than most solenoids used for door latch systems.
- Power to the actuator is limited to approximately 1 second by a timer inside the remote control receiver. This insures that the actuator will not be damaged if the transmitter button is pressed for too long.
- Additional transmitters are available upon request. You will need to provide the code number on the transmitters so write this number down and file it away.
- Transmitter batteries are available at your local Radio Shack store.
- Two switches are provided for emergency entry into your vehicle should you accidentally leave the transmitters inside the vehicle, or if the transmitter batteries are too weak. Possibly the best feature of a remote control system is that you will know that no one is able to enter your vehicle while you are not there. ( Providing that you do not tell them where you installed the two emergency entry switches )
- The transmitter range is approximately 50 feet depending on battery condition.

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#### KIT CONTENTS:

QUANTITY	DESCRIPTION
1	Receiver
2	Transmitters coded to match the receiver
1	Wiring harness providing power to the receiver and connections to the emergency entry switches
1	Wiring harness providing power to the actuators and a connection to the ignition switch. This harness uses wire with low temperature insulation so that it will not crack when flexed on the coldest of winter days.
2	Motor driven actuators with hardware
2	Door Latches

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### INSTALLATION:

#### A. DETERMINE MOUNTING LOCATIONS:

##### I. The Latches

- Installation of door latches will be different for each situation. It is not the intention of this manual to cover door latch installation, so for those who need assistance, it is suggested that they contact a local rod/custom shop.

##### 2. The Actuators

- Intended for use with latches similar to those included in this kit. These actuators will not operate the sliding bolt style latches. If you use a different latch, check to make sure that it does not require a lot more force than the latches in this kit. An instruction sheet is provided to assist in the installation of the actuators

##### 3. The Receiver

- The receiver **MUST** be mounted within the passenger compartment or trunk. Never mount the receiver in a location where excessive heat can build up, such as:
  - in the engine compartment
  - on the firewall directly behind the headers
  - under a seat and directly above a muffler
  - in the direct path of the hot air coming from the heater

Some common sense will greatly reduce the chances that you will ever need repairs.

- The long black wire is the antenna for the receiver. The antenna works best when fully extended. A simple method for keeping the antenna fully extended is to tie a rubber band or string to the end of the antenna wire and then tie the other end of the rubber band or string to the vehicle.

DO NOT:           Change the length of the antenna wire  
                      Coil the antenna wire  
                      Wrap the antenna wire around anything  
                      Connect the antenna wire to any other wire or the vehicle chassis

##### 4. The emergency entry switches

- If you have a mechanical method for entry into your vehicle, you have the choice of installing these switches or you can leave the switches inside the vehicle with the wire wrapped into a coil. Whatever your choice, **DO NOT MODIFY** the wires or connector leading to these switches. These switches are part of the safety circuit and should not be modified. All warranties are void if modifications are made to this part of the system wiring!! I
- If you decide to install the emergency entry switches, it is suggested that you mount them in the floor of the passenger compartment or trunk. Remember that you want to be able to get at them only when you accidentally leave the transmitters in the vehicle, or when the transmitter batteries get too weak. Keep in mind that you will need to press **BOTH** switches to open the door connected to circuit I. The protective rubber boot on each switch is threaded and must be removed before the switch can be inserted into a hole in the floor of the vehicle.

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### INSTALLATION (cont'd):

#### B. WIRING ( Push the connectors together **AFTER** the wiring is completed )

1. Connect the short black wire to the vehicle chassis ground.
2. Connect the red wire to a + 12 volt connection that is always at 12 volts.
3. Connect the orange wire **DIRECTLY TO THE FUSED SIDE** of the fuse block. ( Use a fuse rated at 1.5 Amps)
4. Connect the yellow wire to the passenger door or trunk actuator.
5. Connect the white wire to the driver door actuator.

#### THE FOLLOWING CONNECTION IS ESSENTIAL FOR SAFE OPERATION

6. Connect the blue wire to the ignition switch such that the blue wire is at +12 volts when ignition switch is turned on.

### OPERATION:

After completing the installation previously described, a door can be opened by pressing either button I or button II on the transmitter. The remote control receiver will receive the signal, decode it, and then provide power to the actuator for approximately 1 second.

When the ignition is switched on ( the blue wire is at +12 volts ), the receiver will disconnect the +12 volts power from the actuators. If the receiver receives a signal to open a door at this time, the actuators will not operate because the power for the actuators has been disconnected. It is important to remember that power is automatically disconnected from the actuators only when the vehicles ignition is on (the blue wire is at +12v). Do not turn off the ignition while the vehicle is moving, such as coasting down a hill. If the ignition is turned off, it does not mean that a door will open, it only means that the safety circuit cannot stop the receiver from opening a door if it receives a radio signal to do so.

Should you accidentally leave your transmitters in the vehicle, or find that the transmitter batteries are too weak to operate, you can open the door that is connected to circuit I by pressing **BOTH** of the emergency entry switches **AT THE SAME TIME**.

Each time after you start your engine, **BUT BEFORE YOU PUT YOUR CAR INTO GEAR** test the safety circuit by pressing one of the buttons on the transmitter. No door or trunk should have opened.

WARRANTY:

All of the parts contained in this kit **will be** warranted for one year from the date of purchase providing that they have been installed as instructed (except the transmitter batteries which have NO warranty). Return the defective part to the place of purchase and providing that the dealer determines that the part was installed properly, the part will be replaced.

The receiver high current control circuit is capable of operating the actuators and latches provided in this kit. If actuators and/or latches other than those supplied in this kit are used, RODtronics Corporation retains the right to determine if the warranty should apply to the part(s).

After the warranty period is expired, the defective part can be replaced by purchasing only the replacement part, not an entire kit.

Because RODtronics Corporation cannot be assured that the remote control system was installed as instructed, RODtronics Corporation's liability is limited to the replacement of the remote control system. The purchaser signifies his agreement with the warranty stated here by the attempted or completed installation of this product.

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# Installation Wire Diagram

