

# ***Dakota Digital***

## **REM-1C TWO CHANNEL REMOTE CONTROL SYSTEM**

### **INTRODUCTION**

Thank you for purchasing the REM-1C Two Channel Remote Control System from Dakota Digital. This, along with many other products that Dakota Digital has to offer, represents the latest in electronics technology for the street rod, classic car and truck, and any custom vehicle.

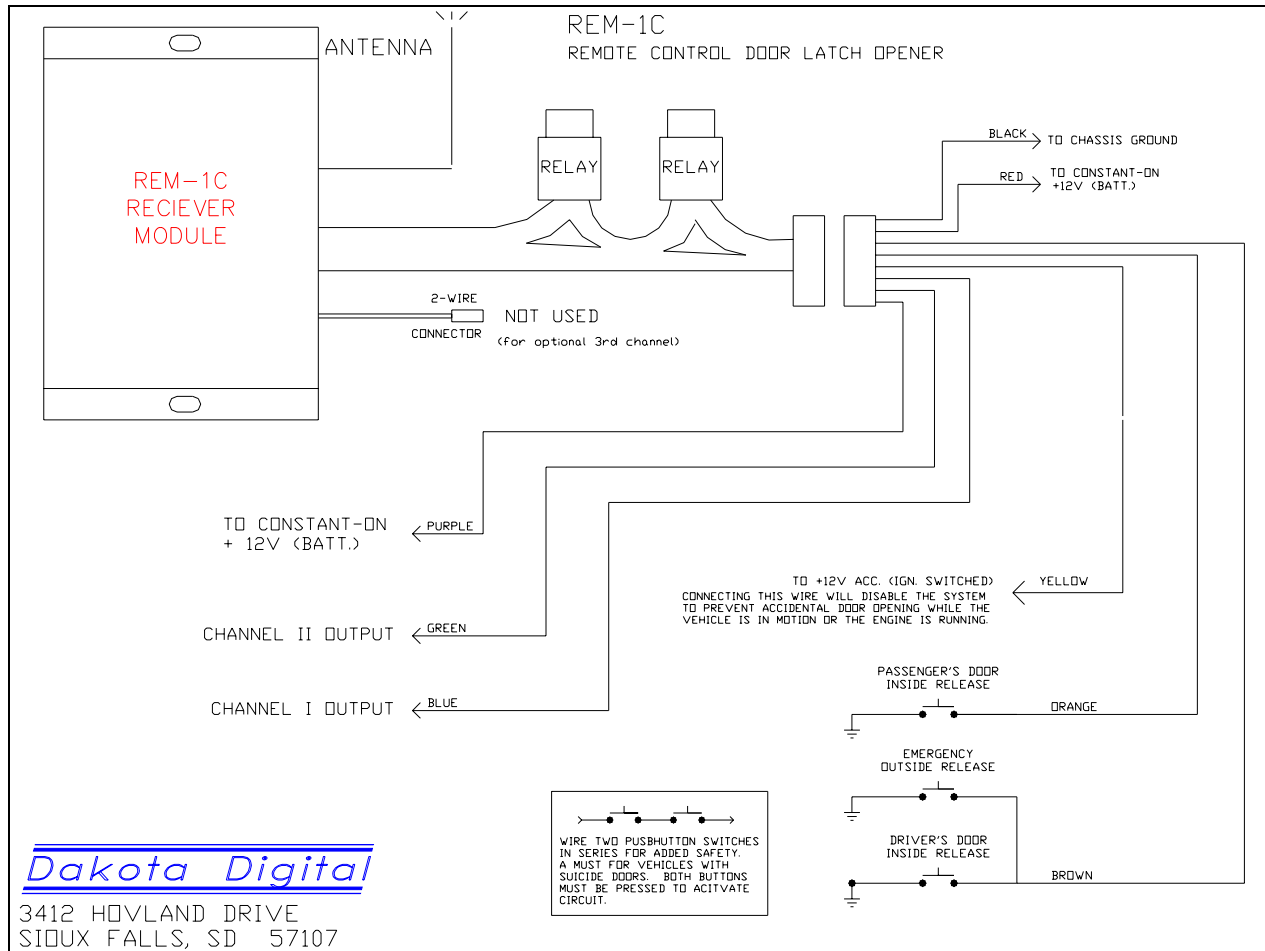
The REM-1C Two Channel Remote Control system comes complete with receiver and two keychain transmitters. It can be installed to remotely release the driver's and passenger's door independently or operate any two devices. A safety feature disables the system when the ignition is on to avoid accidental operation while the vehicle is running. Two internal buttons can be wired into the system as well. An emergency release switch can be concealed on the underside of the vehicle.

### **INSTALLATION**

While installation of the REM-1C is very straightforward, paying a little attention here and planning out how the system will fit into your specific vehicle will save some time in the long run. The receiver should be mounted under the dash up on the fire wall for best access to wiring. The kick panel is also another good location for the receiver.

Connect the REM-1C system as is shown in the wiring diagram. While the wiring diagram is self explanatory, there are several key areas to pay particular attention to. First, the 12 volt source should be able to supply ample current and should not be connected to a feed that is shared with a high current device such as a power window, power seat, or fan. Connecting to a source shared by a device such as this may cause improper operation due to the surge current and subsequent voltage drop caused by the high current devices.

The brown and orange wires can be wired to the internal switches and emergency outside release switch (switches not supplied) as shown in the diagram. In the event that you are installing this system into a vehicle that has suicide doors, you may want to use two switches wired in series to that both switches must be pressed to activate the door motor. The insert on the wiring diagram shows how to do this. In any event, you should always use a safety latch mechanism to securely lock the door closed while in motion.



## OPERATION

Each keychain transmitter contains two pushbuttons. Each button will activate its own independent channel when pressed. To activate channel one, press the button labeled I. For the second channel, press the button labeled II.

Power to the output wires will only stay activated for as long as the keychain transmitter button is pressed. To avoid any damage to any motor or solenoid connected to the receiver the button should only be held for one or two seconds.

When the ignition key is "ON", the remote system is disabled. This safety feature will not allow any operation while the vehicle is in motion. This disables the keychain transmitters only. The "override" switches will not be disabled.

#### BATTERY REPLACEMENT

Should the transmitter function become weak or erratic, the battery in the keychain transmitter may be weak. An indication of a weak battery is that the red indicator may have a dim glow to it when either button is pressed. If this occurs, first check the system by using the second transmitter provided. If the second transmitter function properly, replace the battery in the defective transmitter by the following method:

- A. Remove the small screw on the back of the transmitter case.
- B. Carefully separate the two case halves.
- C. Remove the battery noting the (+) and (-) position.
- D. Replace the battery with a new 12 volt type GP23A battery which is available at most electronic stores (Radio Shack, etc.).
- E. Carefully replace the top cover and refasten the screw.
- F. Check transmitter function. Should the transmitter still fail to function, it is possible the transmitter frequency is out of adjustment. To correct this problem, refer to "Transmitter Adjustment".

#### TRANSMITTER ADJUSTMENT

Should one of your transmitters fail to operate properly while the second works correctly and battery replacement has not corrected the problem, the transmitter frequency may be out of adjustment. To correct this, perform the following:

- A. Open the defective keychain transmitter as explained in battery replacement.
- B. Locate the small blue frequency fine-tune adjustment trimmer on the circuit board inside the transmitter.
- C. Using a small non-metallic adjustment tool, turn the adjusting screw inside the blue trimmer a 1/8 turn clockwise.
- D. Depress black button and check if the driver's door releases. If not, turn the adjustment screw an additional 1/8 turn clockwise and recheck. After turning the screw a total 1/2 turn clockwise, return to its starting position and repeat the adjustment by turning it counter-clockwise in the same manner.
- E. Once the system releases the door, stop and reclose the case. If the adjustment fails to correct the problem, return the defective transmitter for servicing.

## REM-1C REMOTE CONTROL SYSTEM LIMITED LIFETIME WARRANTY

**DAKOTA DIGITAL** (the Company) warrants to the ORIGINAL PURCHASER of this remote control product that should any included control relay(s), electronic module, or transmitters under normal use and condition, be proven defective in material or workmanship DURING THE LIFETIME OF THE CAR IN WHICH IT WAS ORIGINALLY INSTALLED, such defect(s) will be repaired or replaced (at the Company's option) without charge for parts or labor directly related to repairs of the defect(s).

To obtain repair or replacement within the terms of this Warranty, the product is to be delivered with proof of warranty coverage (e.g. dated bill of sale), specification of defect(s), transportation prepaid, to the factory. This Warranty is valid for the original purchaser only and may not be transferred.

This Warranty does not cover batteries, nor extend to damage to vehicle electrical system. This Warranty does not apply to any product or part thereof which in the opinion of the Company has been damaged through alteration, improper installation, mishandling, misuse, neglect, or accident.

This Warranty is in lieu of all other express warranties or liabilities. ANY IMPLIED WARRANTIES, INCLUDING ANY IMPLIED WARRANTY OF MERCHANTABILITY, SHALL BE LIMITED TO THE DURATION OF THIS WRITTEN WARRANTY. ANY ACTION FOR BREACH OF ANY WARRANTY HEREUNDER INCLUDING ANY IMPLIED WARRANTY OF MERCHANTABILITY MUST BE BROUGHT WITHIN A PERIOD OF 30 MONTHS FROM DATE OF ORIGINAL PURCHASE. IN NO CASE SHALL THE COMPANY BE LIABLE FOR ANY CONSEQUENTIAL OR INCIDENTAL DAMAGES FOR BREACH OF THIS OR ANY OTHER WARRANTY, EXPRESSED OR IMPLIED, WHATSOEVER. No person or representative is authorized to assume for the Company any liability other than expressed herein in connection with the sale of this product.

The Company does not warrant that this product cannot be compromised or circumvented. THE EXTENT OF THE COMPANY'S LIABILITY UNDER THIS WARRANTY IS LIMITED TO THE REPAIR OR REPLACEMENT PROVIDED ABOVE AND, IN NO EVENT, SHALL THE COMPANY'S LIABILITY EXCEED THE PURCHASE PRICE PAID BY THE PURCHASER FOR THE PRODUCT.

Some states do not allow limitations on how long an implied warranty lasts or the exclusion or limitation if incidental or consequential damage so the above limitations or exclusion may not apply to you. This Warranty gives you specific legal rights and you may also have other rights which vary from state to state.

# ***Dakota Digital***

4510 W. 61ST St. N., Sioux Falls, SD 57107  
Phone: (605) 332-6513 FAX: (605) 339-4106

[www.dakotadigital.com](http://www.dakotadigital.com)  
[dakotasupport@dakotadigital.com](mailto:dakotasupport@dakotadigital.com)

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