

Dakota Digital

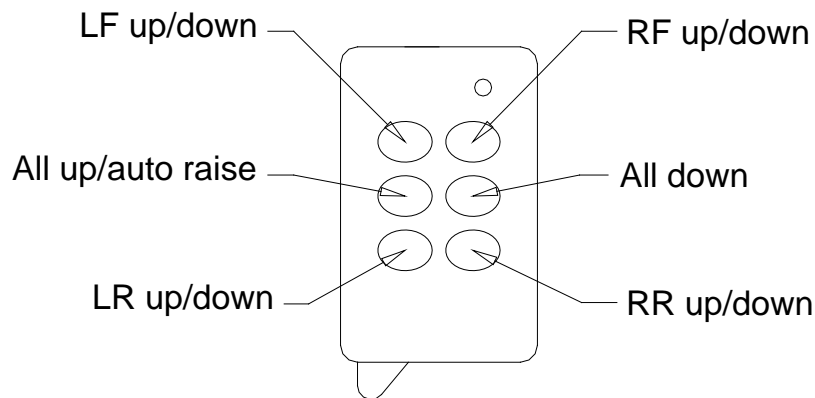
ARR-2000-DHC Air Bag Remote Control System

OPERATION AS REMOTE CONTROL SYSTEM

This remote system is designed to operate with the DHC-2000 air ride control system from Dakota Digital. This ARR-2000-DHC will give you remote control operation of your current DHC-2000 system through use of a key fob transmitter. The remote system is installed easily by plugging in the antenna and programming the remotes, no additional items are needed for the ARR-2000-DHC assuming an already properly installed DHC-2000 system.

The remote system is active when the large red power wire has power and the accessory power wire does not. This prevents accidental operation using the remote system while the vehicle is being driven. When the remote system is ready and waiting to operate the red light on the controller will be flashing slowly.

There are two modes of operation for the transmitter.

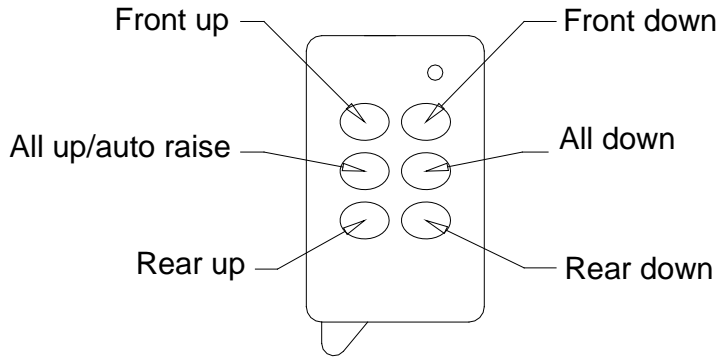


OPERATION FOR MODE 1

The key chain transmitter has six buttons. They are labeled I, II, III, IV, V, and VI.

Button I controls the left front bag. The first time it is pressed it will release air from the bag until the button is released. The next time it is pressed it add air into the bag until it is released. Button II controls the right front bag, button V controls the left rear bag, and button VI controls the right rear bag. They work the same as button I, reversing the bag direction each time it is pressed.

Button IV will lower all of the bags together. Button III will raise all of the bags together if the auto raise on power up is disabled. If the auto raise on power up is enabled then button III will begin the auto raise routine after a 3 second delay.



OPERATION FOR MODE 2

The key chain transmitter has six buttons. They are labeled I, II, III, IV, V, and VI.

Button I raises the front two bags together.



Button II lowers the front two bags together.



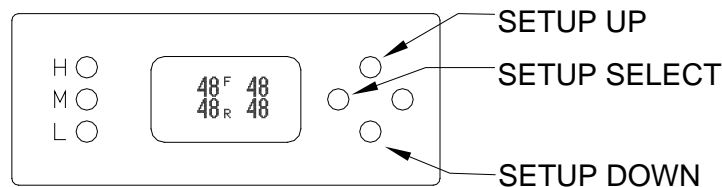
Button V raises the rear two bags together.



Button VI lowers the rear two bags together.

Button IV will lower all of the bags together. Button III will raise all of the bags together if the auto raise on power up is disabled. If the auto raise on power up is enabled then button III will begin the auto raise routine after a 3 second delay.

CHANGING THE REMOTE OPERATION MODE



Setup Menus:

To enter the setup mode, press and hold the SETUP SELECT switch on the right hand side (the one closest to the display) while turning the key on. Use the UP and DOWN switches on the right side to scroll up and down through the menus. Use the SETUP SELECT switch to select the "SETUP REM" menu when displayed.

The remote setup menus are:

- REM MODE - Remote system function mode 1 or mode 2 (individual corner or front rear)
- REM PRGM - Remote system setup (operation mode and transmitter programming)
- REM TEST - Transmitter testing (check if remote programmed/antenna working)

1. Push and hold in the SETUP SELECT switch while you turn the key on. The display should light up and show "CODE" "ACXX", the "XX" represents some number.
2. Release the switch, "SETUP" "MODE" will be displayed. Push the SETUP UP/DOWN switches until "SETUP" "REM" is displayed. Push in and release SETUP SELECT switch.

3. Push in and release SETUP SELECT switch. The display should show 01 "CORNR" "MODE" or 02 "F R" "MODE" to indicate the current mode selected.
4. Push UP or DOWN to select a different mode. Push in and release the SETUP SELECT switch to save the selected mode.
5. The display should show "SETUP" "DONE". Push the SETUP UP/DOWN switches until "SETUP" "REM" is displayed again.
6. Push in and release SETUP SELECT switch. The display should show "REM" "MODE".
7. Push UP or DOWN until "REM" "PRGM" is displayed, then press the SETUP SELECT SWITCH. Press button 3 twice on the first remote and then press button 3 twice on the second remote. One both remotes have been programmed the display will automatically jump to "SETUP" "DONE".
8. Press and release the SETUP SELECT switch to return to normal operation.
9. Shut the key off and test the remote operation.

TESTING THE TRANSMITTERS

The transmitters can be tested to see if they are currently programmed into the system. Follow the steps below to enter transmitter test mode.

1. Push and hold in the SETUP SELECT while you turn the key on. The display should light up and show "CODE" "ACXX" release the switch to display "SETUP" "MODE".
2. Push the UP or DOWN SWITCHES until "REM" "SETUP" is displayed. Push in and release the SELECT switch The display should show "REM" "MODE".
3. Push the UP or DOWN switch until "REM" "TEST" is displayed. Push in and release the SELECT switch. The display should show "PRS 1" "TEST".
4. Press button one on each transmitter. The number of the transmitter, 01 or 02, will be displayed in the upper left corner of the display as long as button one is held, this test and verifies communication between the transmitter and the DHC-2000 controller. If no number appears when button one is pressed try reprogramming the transmitters or possibly changing the transmitter battery.
5. Turn the key off when done.

TRANSMITTER PROGRAMMING

All of the transmitters to be programmed into the system should be available. This sequence will erase any previously programmed transmitters. If a transmitter is lost or stolen, go through the programming sequence with the remaining transmitters and the lost one will be erased.

1. Push and hold in the SETUP SELECT while you turn the key on. The display should light up and show "CODE" "ACXX" release the switch to display "SETUP" "MODE".
2. Push the UP or DOWN SWITCHES until "REM" "SETUP" is displayed. Push in and release the SELECT switch The display should show "REM" "MODE".
3. Push the UP or DOWN switch until "REM" "PRGM" is displayed. Push in and release the SELECT switch. The display should show "PRS 3" "TWICE".
4. Press button three twice on each transmitter. (If you wait to long it will exit the setup routine.)
5. Turn the key off when done.

BATTERY REPLACEMENT

Should the transmitter function become weak or erratic, the battery in the key chain 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 functions properly, replace the battery in the defective transmitter by the following method:

- A. Use a small, flat screw driver or knife to pry the case apart next to the chain.
- 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 snap it into place.
- F. Check transmitter function.

TROUBLE SHOOTING GUIDE

IMPORTANT: Make sure to always disconnect the negative cable from the battery if you are going to be working on or under the vehicle. Failure to do so can result in serious injury if the system is accidentally activated.

Symptom	Possible Problem	Solution
System will not operate any of the solenoids.	Ignition key is on. Accessory input is powered Remote module is not plugged in.	Turn off ignition. Check connection to Acc. wire. Connect connections.
Air solenoids 'jump' or 'chatter'.	Weak or poor 12 volt connection.	Check 12 volt connection. Move to new terminal point.
Bags change direction in mid-travel.	Over loaded 12 volt power circuit.	Place receiver and windows on separate circuits. Check for loose connections. Increase wire size on power.
	Weak vehicle battery. Transmitter signal is being disrupted.	Recharge or replace car battery. Move antenna away from power wires.
Transmitter has very short range on all functions.	Transmitter battery is weak. Antenna needs repositioning	See Battery Replacement. Move antenna out away from any high current wires.

When the system is ready to receive a transmitter signal, the red light should be flashing slowly. If it is not, begin checking the power and ground connections.

If none of these solutions solve the problem, or the problem occurring is not listed here, please call the Dakota Digital technical assistance line at (605) 332-6513 for further assistance or email to dakotasupport@dakotadigital.com.

SERVICE AND REPAIR

DAKOTA DIGITAL offers complete service and repair of its product line. In addition, technical consultation is available to help you work through any questions or problems you may be having installing one of our products. Please read through the Troubleshooting Guide. There, you will find the solution to most problems.

Should you ever need to send the unit back for repairs, please call our technical support line, (605) 332-6513, to request a Return Merchandise Authorization number. Package the product in a good quality box along with plenty of packing material. Ship the product by UPS or insured Parcel Post. Be sure to include the RMA number on the package, and include a complete description of the problem with RMA number, your full name and address (street address preferred), and a telephone number where you can be reached during the day. Any returns for warranty work must include a copy of the dated sales receipt from your place of purchase. Send no money. We will bill you after repair.

Dakota Digital 24 Month Warranty

DAKOTA DIGITAL warrants to the ORIGINAL PURCHASER of this product that should it, under normal use and condition, be proven defective in material or workmanship within 24 MONTHS FROM THE DATE OF PURCHASE, such defect(s) will be repaired or replaced at Dakota Digital's option.

This warranty does not cover nor extend to damage to the vehicle's systems, and does not cover removal or reinstallation of the product. 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 expressed 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 24 months from date of original purchase. No person or representative is authorized to assume, for Dakota Digital, any liability other than expressed herein in connection with the sale of this product.

Dakota Digital

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

www.dakotadigital.com
dakotasupport@dakotadigital.com

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