



Installation Instructions

Garage Door and Gate Operator Radio Control Set Challenger 300 Transmitter and MC1001R Receiver

Proper installation of the radio controls will assure years of trouble-free usage.



READ THE FOLLOWING INSTRUCTIONS THOROUGHLY BEFORE STARTING INSTALLATION

Additional installation tips and up to the minute technical updates can be found on cp Allstar's web site at www.allstarcorp.com

Product Features

Your new radio controls are designed to remotely operate garage door and gate openers. The Challenger 300 transmitter makes it possible to operate one or a group (up to three) remotely controlled devices with a single transmitter. The 10-position ON/OFF code switch block in the radio receiver and the transmitter programmability permits the user to select any one of the 1024 possible code combinations. The radio frequency of the remote controls is fixed and tuned at the factory. RF adjustments are not required and should not be attempted by the end user. There are no user serviceable parts in the radio controls.

Setting Your Personal Code in the Radio Receiver

Before the radio controls can be used the code switches must be set in the Challenger MC1001R receiver and then the same code programmed into the Challenger 300 transmitter. Remove the receiver code switch block cover by sliding it to the side, see Figure 1 at right. Use a pen, paper clip or small screwdriver to change the switches to your personal code. An example of how the switches may be set is shown in Figure 2 below. Any combination of "ON" or "OFF" may be used but avoid using the factory preset code and setting all the switches to the "ON" or "OFF" position.

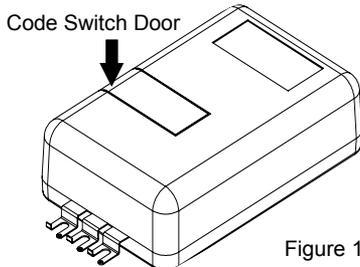


Figure 1

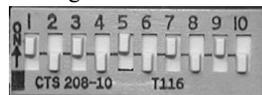
Challenger MC1001R Receiver

Recording the Receiver Switch Block Setting (Your Personal Code)

You will need to program each pushbutton on the Challenger 300 transmitter separately for each Challenger MC1001R receiver. Each button corresponds to the block of ten (10) switches found in the receiver, see Figure 2 below.

You will use the "-" button on the transmitter to program an "OFF" setting on the receiver switch block and the "+" button to program an "ON" setting on the receiver switch block. As an example, Figure 2 below shows a grid on the right filled in using the code shown on the switch block to the left.

Block of 10 switches in the Challenger MC1001R Receiver



1	2	3	4	5	6	7	8	9	10
+	-	+	-	+	-	+	-	+	-

Figure 2

Grid Example



Allstar/Challenger Radio Controls are compatible with HomeLink®. HomeLink® is a registered trade mark of Johnson Controls, Inc.

The table below has a row for each one of the three buttons on the Challenger 300 transmitter since it is possible to program a unique code for each button. Using the example switch block and grid in Figure 2, record the code from your receiver switch block(s) in the grid(s) below for the desired transmitter button(s).

	1	2	3	4	5	6	7	8	9	10
+ / PLUS (LEFT) BUTTON										
0 / Zero (MIDDLE) BUTTON										
- / MINUS (RIGHT) BUTTON										

Programming the Transmitter

Programming the Challenger 300 transmitter is done by simply:

1. Put the transmitter in program mode.
2. Select the button you wish to use.
3. Enter your 10 digit code.
4. Confirm valid code entry
5. Program remaining buttons

1. PUT THE TRANSMITTER IN PROGRAM MODE

First, press and hold the + button. The Red LED will turn on. Next, while continuing to hold the + button, press and hold the - button. Continue to hold both buttons until the LED starts to blink (approximately 5 seconds). **Release both buttons while the LED is blinking.** The LED will blink two times and then remain on to confirm you are in programming mode.

- Go to Step 2 -

2. SELECT THE BUTTON YOU WISH TO USE

While the LED is on, press the button you wish to use. The LED will blink once and then remain on.

- Go to Step 3 -

3. ENTER YOUR 10 DIGIT CODE

Enter the 10-digit code from the table pressing the buttons (only + or - buttons) that correspond with the grid on page 2.

- Go to Step 4 -

4. CONFIRM ENTRY

After the 10-digit code is entered, the LED will blink twice to confirm a valid code and remain off.

- Go to Step 5 -

5. PROGRAM REMAINING BUTTONS

Repeat the steps above to program the remaining buttons.



**If the LED goes out, the unit has "timed out" and you will need to start over.*

IMPORTANT

The EXACT SAME CODE must be programmed in the transmitter as is set in the receiver. If just one switch is mismatched the controls will not function.

Installing Your Receiver

The receiver is designed to be installed in a variety of ways depending on the type of operator and the application. If standard hook-up is not desirable or possible, accessories such as three wire adapter sets and transformer adapter kits may be used. For a standard installation, to mount the receiver loosen the three terminal screws on the operator. Next align the receiver lugs to the matching terminal screws and slide the terminals under the screws. Tighten the terminal screws and make sure any wires for pushbuttons and accessories are still properly attached to the operator's terminal strip. After installation, fully extend the antenna into a vertical position. For better operation keep the antenna as far as possible from any metal surfaces.

DO NOT CUT OR CHANGE THE LENGTH OF THE ANTENNA

Receiver Output

Receivers are shipped with the pulsed output mode of operation enabled. To allow constant contact closure reposition the jumper located near the 10 position code switch of the receiver as illustrated.

Installing the Transmitter

The Challenger 300 transmitter is supplied with a metal clip which may be used to attach the unit to a sun visor. If the clip is used, slide it into the recess provided on the back of the transmitter case until the snaps on the case fit around the clip. If the transmitter is installed in a pocket in your car, follow all the manufacturer's instructions.

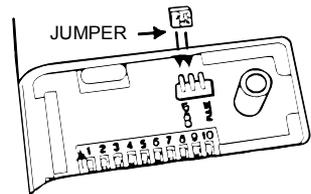
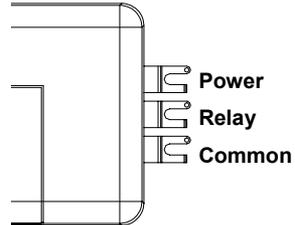
Improper transmitter installation or use may cause intermittent operation which can result in unexpected door operations.



⚠ WARNING

Disconnect power before any installation or repair. Follow all instructions provided by the manufacturer of your operator.

Receiver Terminal Connections



Transmitter Battery Replacement

The Challenger 300 transmitter is provided with two factory installed 3-volt batteries which should be replaced after two years of normal use. The transmitter code is retained in permanent memory and will not be lost during battery replacement. To replace the batteries, remove the back of the case with a small screwdriver. Carefully slip the batteries out of the holders and replace with fresh CR2032 3-volt batteries. The "+" on the batteries must point away from the circuit board. Replace the back of the cover and resume normal use.

Radio Control Compatibility

The Challenger 300 transmitter and the MC1001R Receiver are designed to be compatible with MULTI-CODE radio controls. The Challenger MC1001R receivers and 300 transmitters may be used interchangeably with MULTI-CODE Model 1090 receivers and Model 3089 transmitters. The Challenger 300 transmitters and MC1001R receivers are also compatible with the HomeLink® System.

*MULTI-CODE is a brand name of Linear® Corporation.

*HomeLink® is a registered trade mark of Johnson Controls, Inc.

⚠

WARNING

Keep transmitters and remote controls out of the reach of children. Do not let children play with or use the transmitter or remote controls. Unexpected door operations can cause personal injury or property damage. Do not place transmitter where the buttons can be accidentally or unintentionally activated.



WARNING

Unexpected door operations can cause personal injury or property damage.

Operational Check

- After installing your receiver and transmitter, check the operation of your radio controls by moving approximately 45 feet back from the garage door, then press the transmitter button. Operation at this distance should be reliable. However, environmental conditions and the location of the transmitter and receiver will affect distance.
- If the transmitter doesn't activate the operator check the coding on both the transmitter and receiver. The code setting must match **exactly**. This may necessitate a reprogramming of the Challenger 300 transmitter to match the receiver coding switches.
 - If the distance is inadequate check the battery and replace if necessary.
 - To maximize the operating distance move the transmitter to different locations in the car until a satisfactory distance is achieved. Vanity mirrors on sun visors will affect performance.
 - If the receiver is in the proximity of a metal beam or other obstruction it may be necessary to relocate the receiver to increase the operating range.
 - If multiple receivers are mounted closer than 15 feet, blocking and interference may occur. Move the receivers further apart.
 - If system does not work at any distance, check that the receiver terminals are connected to the proper operator terminals.
 - If the HomeLink® transmitter does not activate the operator or distance is inadequate, verify proper operation using a Challenger 300 transmitter. Contact your HomeLink® system provider for help with configuring the HomeLink® transmitter and to resolve distance problems when using the HomeLink® system.



WARNING

Radio Controls are prohibited from providing constant contact closure when installed on the push button inputs of residential garage door openers that are provided with monitored safety systems.

Manufacturer's Limited Warranty

Allstar warrants its radio controls to be free from defect in material and workmanship for a period of one (1) year from the date of purchase. To obtain service, contact your dealer.

To obtain service under this warranty the buyer must obtain authorization instructions for the return of any goods from Allstar before returning the goods. The goods must be returned with complete identification, with copy of proof-of-purchase, freight prepaid and in accordance with Allstar's instructions or they will not be accepted. In no event will Allstar be responsible for goods returned without proper authorization or identification.

Goods returned to Allstar for warranty repair within the warranty period, which upon receipt by Allstar are confirmed to be defective and covered by this limited warranty, will be repaired or replaced at Allstar's sole option, at no cost and returned pre-paid. Defective parts will be repaired or replaced with new or factory rebuilt parts at Allstar's sole option.

This limited warranty does not cover non-defect damage, damage caused by unreasonable use, damage caused by improper installation or care, vandalism or lightning, fire or excessive heat, flood or other acts of God (including, but not limited to misuse, abuse or alterations, failure to provide reasonable and necessary maintenance), labor charges for dismantling or reinstalling a repaired or replaced unit, or replacement batteries.

These warranties are in lieu of all other warranties, either expressed or implied. All implied warranties of merchantability and/or fitness for a particular purpose are hereby disclaimed and excluded. Under no circumstances shall Allstar be liable for consequential, incidental or special damages arising in connection with the use or inability to use this product. In no event shall Allstar's liability for breach of warranty, breach of contract, negligence or strict liability exceed the cost of the product covered hereby. No person is authorized to assume for Allstar any other liability in connection with the sale of this product.

This warranty gives you specific legal rights. Warranty effective after July 24, 2002.

This device complies with Part 15 of the FCC Rules and with RSS-210 of Industry Canada. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

