

1. OVERVIEW

This universal garage door transmitter is designed to work with most of the RF garage door openers manufactured after 1981 and can operate up to TWO garage door openers. This transmitter can operate the following manufacturer's units:

- Multi-code
- Linear
- Moore-O-Matic
- Stanley
- Sears (most units)
- Chamberlain (most units)
- Lift-Master
- Wayne Dalton (most units)
- Master Mechanic
- Genies

- Model : AR 85 (9-position switch)
- Model : AR 90 (12-position switch)
- Model : SD9500 (12-position switch)

This package contains :

- universal garage door transmitter with visor clip
- 12-Volt 23A battery with PVC sheet
- this user guide

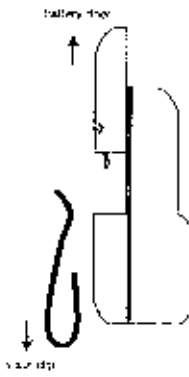
Note : This model is not compatible with rolling code systems.

2. BATTERY

A 12-Volt battery is installed in battery compartment of the transmitter, but is not connected.

To operate the transmitter,

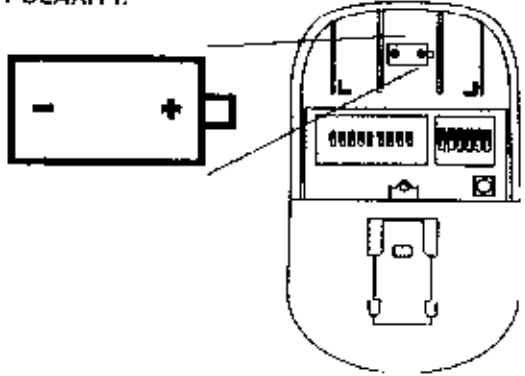
- 2.1 Remove the visor clip and then the battery door.



- 2.2 Pull out the PVC sheet from the battery compartment to make connection to the battery.

Note battery type for replacement

IMPORTANT NOTE : TAKE CARE OF BATTERY '+' AND '-' (BATTERY SYMBOL CAN BE SEEN AFTER THE BATTERY IS TAKEN OUT), OTHERWISE THE TRANSMITTER COULD BE DAMAGED BY REVERSING BATTERY POLARITY.



3. SET UP PROCEDURES

To set up the universal garage door transmitter, please follow the steps below :

3.1

Remove the visor clip and then the battery door.

Table 1 : Manufacturer Switches Setting

Manufacturer	Manufacturer Select Switch Settings		
	A	B	C
Genie AR85 (390MHz, 9-position coding switch)	UP	DOWN	DOWN
Genie AR90 and SD9500 (390MHz, 12-position coding switch)	DOWN	DOWN	DOWN
Sears, Chamberlain Lift-Master, Wayne Dalton, Master Mechanic (390MHz, 9-position tristate coding switch)	DOWN	DOWN	UP
Stanley (310MHz, 10-position coding switch)	DOWN	UP	UP
Linear, Moore-O-Matic (310MHz, 8 position coding switch)	DOWN	UP	DOWN
Multi-Code (300MHz, 10-position coding switch)	UP	DOWN	UP

3.3

Set the manufacturer switches (A, B and C) on the transmitter to match with the manufacturer of your receiver unit. Figure 1 shows the correct positions of the switches.

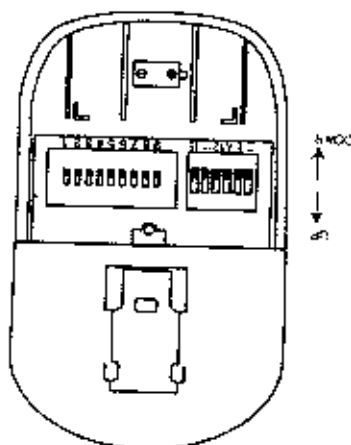


Figure 1

3.2

Find the manufacturer of your receiver unit as shown in Table 1. Ignore the numbers marked on the switches. Only refer to the numbers labeled on the PCB (1-12, A,B,C).

3.4

Set the coding switches (1-12 marked on the PCB) the same as your receiver unit. Set only the same number of switches that your receiver unit has. If your receiver has 9 coding switches, set only the first 9 switches on transmitter. Others should be set to the DOWN position. For the first 9 coding switches, there are 3 states, UP, DOWN and MIDDLE. Some receivers have only 2 states, UP and DOWN. Please make sure that NO MIDDLE state is set for the first 9 coding switches in this case.

3.5

To store the setting in Button #1, press and hold the SET key (as shown in Figure 1) and then press Button #1 for about two seconds. Setting of Button #1 has been stored and Button #1 is now setup. To store the setting in Button #2, repeat procedures 3.2-3.4, press and hold the SET key and then press Button #2 for about two seconds. Setting of Button #2 has been stored and Button #2 is now setup.

Notes :

With some SEARS and CRAFTSMAN models, the DIP switch numbering begins with the number 2. Then the universal transmitter should also be set from coding switch number 2.

Some Genie openers do not have DIP switches. They have "knockout" or "punch out" switches to set the transmitter code. Where the hole is "punched out" on these models, the transmitter DIP switch should be set in the DOWN position. Where the hole is NOT "punched out", the transmitter DIP switch should be set in the UP position. On these models, the transmitter should never be set to the MIDDLE position.

If you cannot get the transmitter to operate your Stanley opener, try setting the DIP switches (1-10) to the opposite of your original transmitter. For example, if you set all 10 of the DIP switches to the UP position to match your original Stanley transmitter, then reverse the switches to the DOWN position and test the transmitter again.

Some Stanley openers do not have DIP switches. They have even numbered wires located in both the original transmitter and the head unit. Notice that there are no odd numbered wires. To program the transmitter to operate on these wired units : place all the DIP switches (1-12) in the transmitter in the DOWN position. Now locate the uncut wires in the original transmitter or over head unit and place the transmitter DIP switch that matches that number in the UP position. On these models, the transmitter DIP switches (1-9) should never be in the MIDDLE position.

If your Garage door opener is a newer model Sears, Chamberlain, Liftmaster or Master Mechanic, you may need to teach the motor head (radio receiver), mounted in your garage, what code you are using. In order to do this, you will have to be able to reach the motor head unit and your transmitter. To setup this transmitter for "Smart" or "Learning" garage door openers :

3.5.1

Reach the motor head unit and remove the

plastic cover. Find the "Smart" or "Learn" button on the head unit. The button should have an LED next to it.

3.5.2

After setting the manufacturer's DIP switches (A, B and C), set the coding DIP switches on the transmitter to any position you like.

3.5.3

Press and hold the button on your transmitter. While holding down that button, press the "Smart" or "Learn" button on the head unit. After the light on the head unit flashes, release both buttons.

3.5.4

Test your transmitter by pressing the button.

Note : You have now added the access code of your transmitter to the radio receiver. However, your original transmitter may not be able to communicate with the opener. If this is the case, erase the memory of your radio receiver by pressing and holding the "Smart" or "Learn" button on the head unit for approximately 10 seconds. Now, relearn your original transmitter by pressing and holding the button on your original transmitter. While holding down that button, press the "Smart" or "Learn" button on the head unit. After the light on the head unit flashes, release both buttons. Then, relearn the transmitter. If this fails to make both transmitters compatible with your garage door opener, then erase the memory of your radio receiver and relearn the original transmitter and match the transmitter DIP switches in the original transmitter.

4 OPERATING THE UNIVERSAL GARAGE DOOR TRANSMITTER

4.1

Point the front of the transmitter towards the door

4.2

Press the Button #1 or #2 and LED on the front will be ON to indicate that radio signal transmission.



Note : The sensitivity of the universal garage door transmitter depends on the direction and distance to the receiver unit. To get the maximum range, point the transmitter directly to the receiver unit.

Warning : Keep the transmitter out of children. The garage door could close and cause serious injury or death. Use the transmitter only when you are sure all obstacles have been removed.

5. FCC RULES AND REGULATIONS

Warning: Changes or modifications to this unit not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications.

However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures.

Reorient or relocate the receiving antenna.

Increase the separation between the equipment and receiver.

Connect the equipment in to an outlet on a circuit different from that to which the receiver is needed.

Consult the dealer or an experienced radio/TV technician for help.

This device complies with Part 15 of the FCC rules. 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.

6. TROUBLESHOOTING

Problem	Solution
The transmitter's LED becomes dim.	Replace a new 12V 23A alkaline battery
Copy of the DIP switches setting from SEARS transmitter does not work	Make sure that the DIP switches setting start from number 2 and DIP switch number 1 must be set to "-"
The transmitter LED ON but the garage door opener cannot be controlled	Replace a new 12V 23A alkaline battery and try again

Model No. DRG2

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