



RPM 3:7

Installation Instructions

This product was designed to control 2 windows up and down (4 functions), unlatch 2 doors (2 functions), and operate a seventh function like unlatching a trunk. Window functions can also be used to remote control a 'Lectra-Lift power trunk. Simply wire the trunk switch and motor in place of the passenger side window switch and motor. The door and trunk outputs are timed to 2 seconds to prevent actuators from burning out. They are not capable of operating windows or power trunks. Call Ball's tech support at (760) 672-3540 if you have a special application. Diagrams for using Specialty and GM switches are also available at this number.

WIRING INSTRUCTIONS

**** Do all wiring with the ground wire off of the battery ****

Mount the receiver to a non-metal surface and attach the orange pigtail so that the wires point up towards the purple label. It is a good idea to mount the unit and the relays on one board. Follow the color code of the wires when interpreting the diagram. Wire the seven output wires to the corresponding relays on post #85. Mark the relays to help with the rest of the wiring. The receiver will be damaged if any of the 7 output wires are connected to +12V. The red wire should be connected to a 30A fused +12V constant DC source. This same +12V source will be used to feed the relays. All #86 and #87 posts can be jumped together and one feed run back to the fused source. The black wire should be connected to a good chassis ground. Wire all motors to the corresponding post #30. All switch wires will go to post #87A. THERE SHOULD BE NO SWITCH WIRES DIRECTLY TO ANY MOTOR. All switch wires run through the relays.

OPERATION

GREEN	Hold 1	Drivers window up
	Hold 2	Drivers window down
	Tap 2	Unlatch drivers door (Yellow for 1 sec., Green for 1 sec.)
RED	Hold 1	Passenger window up
	Hold 2	Passenger window down
	Tap 2	Unlatch passenger door (Yellow for 1 sec., Red for 1 sec.)
YELLOW	Tap 1	Activates unlatch mode
	Tap 2	Unlatches trunk (Yellow for 1 sec., Yellow for 1 sec.)

*Tap = Press for 1 second

***** Notes for Installation *****

1. Use a 12V battery, not a battery charger, to test the unit on a bench.
2. The seven output wires supply a ground to the relays for operation. They should not be probed with a test light. This will damage the receiver.
3. Power window switches must be wired to the relays before the remote will operate.
4. If power windows were previously installed in the car, make sure the wires running for the window switches to the motors are cut and run through the relays.
5. The button on the front of the receiver is a coding button, not a reset. It will erase the code of your transmitter(s). The recoding process requires access to the receiver.
6. The diagram on the back is for a three switch setup. If you are using a two switch setup, eliminate the "passenger's side switch on the driver's door" and place a ground on both posts next to the +12V wire.
7. E-mail mail@ballsrodandkustom.com for technical help.