

# WINDOW ROLL-UP MODULE INSTALLATION MANUAL *(Mini Cooper)*

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ALTHOUGH THIS PRODUCT HAS BEEN THOROUGHLY TESTED KPIERSON TECHNOLOGIES ASSUMES NO RESPONSIBILITY FOR ANY DAMAGE THAT MAY RESULT BY THE INSTALLATION OF THIS PRODUCT. INSTALL AND USE THIS PRODUCT AT YOUR OWN RISK. IF YOU DO NOT AGREE TO THESE TERMS DO NOT ATTEMPT TO INSTALL THIS PRODUCT. THIS PRODUCT HAS BEEN TESTED FOR 02-03 MINI COOPERS ONLY.

THIS PRODUCT IS DESIGNED TO BE INSTALLED BY QUALIFIED PERSONNEL ONLY. IMPROPER INSTALLATION CAN RESULT IN IRREVERSABLE DAMAGE TO YOUR VEHICLE. IT IS THE INSTALLERS RESPONSIBILITY TO VERIFY ALL WIRES PRIOR TO MAKING ANY CONNECTIONS.

## **INSTALLATION:**

1. Unplug harness from module and set module aside
2. Remove driver side lower dash knee bolster by first unsnapping the top two clips and then gently working the bottom 'fingers' free
3. Locate where the wires enter the vehicle from the drivers door
  - a. In this bundle you will find the lock and unlock actuator signals and the door cylinder signal
4. Remove two (2) T25 torx style screws securing the steering column shroud
5. Gently pull apart steering column shroud
  - a. In the bundle of wires running up the drivers side of the column you will find both the 12vdc and the Ignition wires

## **ELECTRICAL CONNECTIONS: (Please consult Wire Guide for detailed wire info)**

*Due to the harsh environment found in vehicles, KP Technologies recommends always soldering and securely taping **EVERY** connection.*

1. GREEN – DOOR LOCK SWITCH OUTPUT
  - a. Connect this wire to the output of the lock cylinder. This wire will read 3 volts until you turn the key in the lock cylinder to 'lock.' In the 'lock' position it will read ground (0VDC).

2. BLUE – DOOR LOCK MOTOR INPUT

- a. Connect this wire to the wire that controls the door lock motor. This wire will read 0VDC until the door is locked. Upon locking the doors this wire will read 12 volts.

**NOTE:** The door lock motor is computer controlled and therefore the lock pulse is only 0.3 seconds long. It is recommended to disable auto-ranging (if applicable) on your meter in order to read this pulse accurately.

3. ORANGE – DOOR UNLOCK MOTOR INPUT

- a. Connect this wire to the wire that controls the door unlock motor. This wire will read 0VDC until the door is locked. Upon locking the doors this wire will read 12 volts.

**NOTE:** The door unlock motor is computer controlled and therefore the lock pulse is only 0.3 seconds long. It is recommended to disable auto-ranging (if applicable) on your meter in order to read this pulse accurately.

4. BLACK – GROUND

- a. Connect this wire to ground.
  - i. This can be accomplished by using a self-tapping screw into the metal part of the under-dash, or you can hook this wire to any wire already grounded to a metal part of the car

5. YELLOW – 12VDC SWITCHED IGNITION

- a. Connect this wire to a source that only reads 12 volts when the ignition switch is on.

**NOTE:** Due to Retained Accessory Power (RAP) this wire *may* read 12volts for a period of time after the ignition is switched off.

6. RED – 12VDC CONSTANT

- a. Connect this wire to a constant 12 volt source (steering column).

**TESTING:**

1. Plug Harness in to module
2. With windows down press the door unlock button and within 1.25 seconds press the door lock button (leave enough time between pulses for the OEM keyless entry system to respond). The windows should go all the way up. You must be able to hear the doors lock actuators twice in order for this module to work. If the command is successfully received the module will lock the doors again, and then the windows will start to raise.

**NOTE:** The central locking system of the Mini is VERY unstable from the factory. If you lock the doors excessively the door locks will quick working for a period of time. THIS IS NORMAL. If your door locks quit locking let the car sit for five minutes before you try again.

**PROGRAMMING:** (Since auto door locking is a factory option this section can be ignored)

The ignition controlled door locking system is programmable.

**To *disable* this feature:**

Turn the ignition on and WAIT for the doors to lock. After they lock you have approximately six seconds to push the lock button three times. The next time you turn the ignition on the doors should not lock

**To *enable* this feature:**

Turn the ignition on and within approximately six seconds push the lock button three times. The next time you turn the ignition on the doors should lock after six seconds.

**TROUBLESHOOTING:**

For installation questions or concerns, please contact KPtechnologies at [support@kptechnologies.com](mailto:support@kptechnologies.com) or visit us at [www.kptechnologies.com/forums](http://www.kptechnologies.com/forums)

For product information, please visit our website at [www.kptechnologies.com](http://www.kptechnologies.com)

