REMOTE SUNROOF CONTROL MODULE
INSTALLATION MANUAL
(Infiniti G35)

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

INSTALLATION:

1. Remove the drivers side lower dash panel
   a. Remove one screw in bottom left corner of panel
   b. Pull firmly towards you
   c. Unplug each electrical harness and hose attached to the lower dash panel and position panel on the floor board (can be done with hood cable and diagnostic plug still attached)

ELECTRICAL CONNECTIONS: (SEE TABLE BELOW FOR WIRE COLORS)
Due to the harsh environment found in vehicles, KP Technologies recommends always soldering and securely taping EVERY connection.

1. YELLOW – 12VDC RAP INPUT/OUTPUT
   a. Connect this wire to the Body Control Module (BCM) RAP output that connects to the OEM sunroof controller. This wire can be found in the main BCM wiring harness above where the harness splits to go in to the drivers side door and will read 12VDC when either the ignition or RAP system is on. With the ignition off and the drivers door open the wire should measure 0VDC. It will be necessary to cut this wire and install the supplied diode pack. The diode pack has three wires coming out of it, one out of the bottom, and two out of the top. Connect the one wire coming out of the bottom to the BCM side of the RAP output. Connect one of the two wires coming out of the top to the Sunroof controller side of the RAP output. Connect the remaining wire out of the top to the KPtechnologies sunroof module. Please see diagram on next page for more details.
2. GREEN – DOOR UNLOCK MOTOR INPUT
   a. Connect this wire at the BCM to the output wire that controls the door unlock motor. This wire will read ‘open leg’ (floating/No connection) until the door is unlocked. Upon receiving an unlock command from the key cylinder, the door lock button, or the key fob this wire will read 12volts for a brief period.

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

3. BLUE – DOOR LOCK MOTOR INPUT
   a. Connect this at the BCM to the output wire that controls the door lock motor. This wire will read ‘open leg’ (floating/No connection) until the door is locked. Upon receiving a lock command from the cylinder, the door lock button, or the key fob this wire will read 12volts for a brief period.

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

4. RED – 12VDC CONSTANT
   a. Connect this wire to a constant 12 volt source at the BCM using the supplied fuse holder.

5. BLACK – GROUND
   a. Connect this wire to ground at the BCM.

6. TWISTED GRAY – SUNROOF OPEN
a. Using the supplied wire insertion tool route this twisted pair wire up the drivers side A-pillar (the pillar that connects the dash board to the roof), across the headliner, and into the sunroof switch compartment.
b. To remove the A-pillar trim piece firmly pull it towards the center of the car, there are no screws holding it in
c. To access the sunroof switch gently pry both plastic lens covers down. Next, gently pry the cover off that finishes the sunroof switch. With the cover removed remove two screws holding the switch in place. Finally, gently pry down the inner switch assembly. There are four clips that hold the inner sunroof switch assembly to the outer bezel that can be released carefully by using a small flat head screwdriver.
d. Once sunroof wires are exposed connect gray wire to the sunroof open wire. This wire will read 5vdc when the car is on, and will go to 0vdc when the sunroof open button is pushed.

7. TWISTED BLACK – SUNROOF CLOSE
   a. Connect black wire to the sunroof close wire. This wire will read 5vdc when the car is on, and will go to 0vdc when the sunroof close button is pushed.

TESTING:
1. With the vehicle off and sunroof closed issue an ‘OPEN Command’ by pressing the ‘LOCK’ button on the keyfob, waiting approximately one second and then pressing the ‘UNLOCK’ button. The sunroof should vent. Next, issue a ‘CLOSE Command’ by pressing the ‘LOCK’ button on the keyfob, waiting approximately one second and pushing the ‘LOCK’ button again. The sunroof should close. It is necessary to wait approximately 2 seconds after the sunroof quits moving before issuing either an OPEN or CLOSE command.
PROGRAMMING:

This module can be programmed to either vent or completely open the sunroof when the ‘OPEN’ command is issued.

1. Turn the ignition to the ‘ON’ position (no need to start the car)
2. Within 5 seconds of turning the ignition on press and hold for at least five seconds either the ‘CLOSE’ sunroof button to program VENT or the ‘OPEN’ sunroof button to program OPEN
3. After five seconds release the sunroof button and the sunroof will automatically vent or open respective to which function was programmed

ALIGNMENT:

From time to time the KPtechnologies sunroof module may lose track of the position of the sunroof. This may cause the sunroof to remotely operate in an unpredictable manner. To realign the KPtechnologies sunroof module with the sunroof:

1. Turn the ignition to the ‘ON’ position (no need to start the car)
2. Press and release the Sunroof ‘CLOSE/VENT’ button
3. Wait at least 5 seconds
4. Press and release the Sunroof ‘CLOSE/VENT’ button again
5. Wait at least 5 seconds
6. Press and release the Sunroof ‘CLOSE/VENT’ button again
7. Wait at least 5 seconds
8. The sunroof should now be in the vented position
9. Turn the car off and issue a ‘CLOSE’ command via the keyfob to verify that the sunroof module is aligned properly

TROUBLESHOOTING:

For installation questions or concerns, please contact KPtechnologies at support@kptechnologies.com or visit us at www.kptechnologies.com/forums

For product information, please visit our website at www.kptechnologies.com