AUTO LOCK/UNLOCK MODULE
INSTALLATION MANUAL
(Universal)

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. Unplug harness from module and set module aside
2. Determine vehicle door lock type
3. Locate and make necessary electrical connections
4. Plug module back in
5. Secure module in a safe place that will not interfere with driving or other moving parts
6. Test Module

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

1. GREEN – DOOR UNLOCK
   a. This wire outputs a 200mA (-) low current signal to unlock the doors. Depending on the vehicle it may be necessary to use a relay

   NOTE: On vehicles with priority door unlocking it may be necessary to use two relays to unlock all doors.

2. BLUE – DOOR LOCK OUTPUT
   a. This wire outputs a 200mA (-) low current signal to lock the doors. Depending on the vehicle it may be necessary to use a relay
3. **ORANGE – DOOR PIN INPUT**  
   a. Connect this wire to the drivers door (-) door pin. This signal is used to prevent the doors from auto locking in Timing Mode if a ground signal is present when the ignition is turned on.

   **NOTE:** Some vehicles may not have isolated door pins. In this case, a common door pin signal can be used, but if ANY door is open when the ignition is turned on the doors will not auto lock in Timing Mode. The door pin input is only used in timing mode as Instant Trigger mode will lock the doors regardless of the status of the door pin. This connection is optional and the module will still operate if the orange wire is left unconnected, although the doors will lock even if they are open.

4. **BLACK – GROUND**  
   a. Connect this wire to ground.

5. **YELLOW – 12VDC Trigger**  
   a. The trigger wire can be configured for two different modes:

   **NOTE:** Although this input is intended to be used with a 12vdc signal it will detect any voltage between 0.7vdc and 30vdc

   i. **Timing Mode:**  
      1. When Timing mode is desired hook the yellow wire up to an ignition signal that reads 12VDC when the ignition is in the ‘ON’ position and has no voltage when the vehicle is in the ‘OFF’ position.

   ii. **Instant Trigger Mode:**  
      1. When Instant Trigger mode is desired hook this wire up to any desired 12vdc trigger. When programmed to Instant Trigger the doors will lock instantly upon detecting 12vdc on this trigger wire. The doors will remain locked until power is removed from the input. (For example – KPtechnologies RPM switch for RPM controlled door locking)

6. **RED (LONG) – 12VDC CONSTANT**  
   a. Connect this wire to a fused constant 12 volt source

7. **RED (SHORT)– PROGRAMMING INPUT**  
   a. Connect this wire to 12VDC for Instant Trigger Mode  
   b. Leave this wire unconnected for Timing Mode
CONFIGURATION:

1. TIMING MODE: When Timing Mode is selected the module will monitor the 12VDC Trigger Input. When a Trigger Input signal is detected the module will continue to monitor the Trigger Input for six seconds as well as monitor the Door Pin Input. If the Trigger Input is present for six continuous seconds and the Door Pin Input is never grounded then the module will output a 0.8 second (-) pulse on the Door Lock Output. If at any time during the Timing period the module detects that the door is open then Door Locking will be skipped for this Trigger Input. The module will then continue to monitor the Trigger Input for the duration of the signal. As soon as the signal is removed then the module will output a 0.8 second (-) pulse on the Door Unlock Output. The module will then begin looking for another Trigger Input.

2. INSTANT TRIGGER MODE: If configured for Trigger Mode the module will output a 0.8 second (-) pulse on the Door Lock Output immediately upon detecting 12vdc on the Trigger Input wire. The Door Pin Input is not monitored at all and does not need to be connected when using Instant Trigger Mode. As soon as the Trigger Input voltage is removed the module will output a 0.8 second (-) pulse on the Door Unlock Output. This mode is intended to be used with either a KPtechnologies latching RPM switch or custom designed end user supplied relay logic.

TESTING:

1. Plug Harness in to module

2. TIMING MODE: With all doors closed (if door pin is hooked up) turn the ignition on. Approximately six seconds later the doors should lock. Wait ten seconds and shut the ignition off and all doors should unlock.

3. INSTANT TRIGGER MODE: Start vehicle and complete the steps necessary to supply 12vdc to the Input Trigger wire on the KPtechnologies Auto Lock module. The doors should lock and stay locked until voltage is removed from the Input Trigger wire.

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
AUTO LOCK/UNLOCK MODULE
INSTALLATION MANUAL
(Infiniti/Nissan)

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OVERVIEW:
7. Unplug harness from module and set module aside
8. Remove drivers side rocker panel and kick panel to access the BCM
   a. Remove appropriate harnesses from BCM
9. Remove lower dash panel to expose wiring to ignition harness
10. Locate and make necessary electrical connections
11. Plug BCM Harnesses back in
12. Plug module back in
13. Secure module in a safe place that will not interfere with driving or other moving parts
14. Test Module

INSTALLATION:
The G35 requires using a relay pack to lock and unlock the vehicle. Contact KPtechnologies if you did not order the relay pack with the auto lock module.

Auto Lock Module:

<table>
<thead>
<tr>
<th>Module</th>
<th>03 - 05 Sedan</th>
<th>03 - 05 Coupe</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>Orange (door pin)</td>
<td>White</td>
<td>Yellow</td>
<td>BCM</td>
</tr>
<tr>
<td>Black (ground)</td>
<td>Chassis</td>
<td>Chassis</td>
<td>Chassis</td>
</tr>
<tr>
<td>Red (12 VDC)</td>
<td>White/Blue</td>
<td>White/Blue</td>
<td>Ignition Harness</td>
</tr>
<tr>
<td>Blue (Lock)</td>
<td>Relay Pack</td>
<td>Relay Pack</td>
<td>Relay Pack</td>
</tr>
<tr>
<td>Yellow (Trigger)</td>
<td>Black/Red</td>
<td>Black/Red</td>
<td>Ignition Harness</td>
</tr>
<tr>
<td>Green (Unlock)</td>
<td>Relay Pack</td>
<td>Relay Pack</td>
<td>Relay Pack</td>
</tr>
</tbody>
</table>
Connections for Relay Pack:

<table>
<thead>
<tr>
<th>Relay Pack</th>
<th>Relay Pack Color</th>
<th>03 - 05 Sedan</th>
<th>03 - 05 Coupe</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>Door Lock Actuator</td>
<td>Blue / Black</td>
<td>Purple</td>
<td>Purple</td>
<td>BCM</td>
</tr>
<tr>
<td>(Driver’s Side)</td>
<td>Twisted Pair</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Door Unlock Actuator</td>
<td>Green / Black</td>
<td>Yellow</td>
<td>Yellow</td>
<td>BCM</td>
</tr>
<tr>
<td>(Driver’s Side)</td>
<td>Twisted Pair</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Door Unlock Actuator</td>
<td>Purple / Black</td>
<td>White / Blue</td>
<td>White / Blue</td>
<td>BCM</td>
</tr>
<tr>
<td>(Passenger’s Side)</td>
<td>Twisted Pair</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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

**AUTO DOOR LOCK/UNLOCK MODULE:**

8. GREEN – DOOR UNLOCK
   a. This wire connects to the green wire on the relay pack

9. BLUE – DOOR LOCK OUTPUT
   a. This wire connects to the blue wire on the relay pack

10. ORANGE – DOOR PIN INPUT
    a. Connect this wire to the drivers side (-) door pin. This signal is used to prevent the doors from auto locking IF a ground signal is present when the ignition is turned on

**NOTE:** Some vehicles may not have isolated door pins. In this case, a common door pin signal can be used, but if ANY door is open when the ignition is turned on the doors will not auto lock. The door pin input is ONLY used in timing mode. Instant trigger mode locks the doors regardless of the status of the door pin. This signal is completely optional and the module will still work if this wire is left unconnected (although the doors will lock even if they are open)

11. BLACK – GROUND
    a. Connect this wire to ground.

12. YELLOW – 12VDC Trigger
    a. The trigger wire can be configured for two different modes:
       i. Timing Mode:
          1. When Timing mode is desired hook the yellow wire up to an ignition signal that reads 12VDC when the ignition is in the ‘ON’ position and has no voltage when the vehicle is in the ‘OFF’ position.
       ii. Instant Trigger Mode:
          1. When Instant Trigger mode is desired hook this wire up to any desired trigger. When programmed to Instant Trigger
the doors will lock INSTANTLY upon reading 12vdc on the trigger wire. The doors will remain locked UNTIL power is removed from the input. (For example – KPtechnologies RPM switch for RPM controlled door locking)

13. RED (LONG) – 12VDC CONSTANT
   a. Connect this wire to a fused constant 12 volt source

14. RED (SHORT) – For Timing Mode leave this wire disconnected. For Instant Trigger Mode permanently connect this wire to 12vdc. If the programming mode is ever changed you must unplug the module for 30 seconds before the changes will take effect.

RELAY PACK MODULE:

1. RED – 12VDC CONSTANT
   a. Connect this wire to a fused constant 12 volt source. Fuse is supplied.

2. BLACK – GROUND
   b. Connect this wire to ground.

3. Blue / Black Twisted Pair
   a. Cut Door Lock Actuator wire (see wire guide) connect the blue wire to the end that goes into the door.

   **NOTE:** It is very important to not connect the blue wire to the end that goes into the BCM. If you do it will damage your BCM and not work correctly.

   b. Connect Black wire to end of Door Lock Actuator wire that goes towards the BCM.

4. Green / Black Twisted Pair
   a. Cut Door Unlock Actuator wire (see wire guide) connect the green wire to the end that goes into the door.

   **NOTE:** It is very important to not connect the green wire to the end that goes into the BCM. If you do it will damage your BCM and not work correctly.

   b. Connect Black wire to end of Door Lock Actuator wire that goes towards the BCM.

5. Purple / Black Twisted Pair
   a. Cut Door Unlock Actuator wire (see wire guide) connect the purple wire to the end that goes into the door.
NOTE: It is very important to not connect the purple wire to the end that goes into the BCM. If you do it will damage your BCM and not work correctly.

b. Connect Black wire to end of Door Lock Actuator wire that goes towards the BCM.

CONFIGURATION:
3. TIMING MODE: When Timing Mode is selected the module will monitor the 12VDC Trigger Input. When a Trigger Input signal is detected the module will continue to monitor the Trigger Input for six seconds as well as monitor the Door Pin Input. If the Trigger Input is present for six continuous seconds and the Door Pin Input is never grounded then the module will output a 0.8 second (-) pulse on the Door Lock Output. If at any time during the Timing period the module detects that the door is open then Door Locking will be skipped for this Trigger Input. The module will then continue to monitor the Trigger Input for the duration of the signal. As soon as the signal is removed then the module will output a 0.8 second (-) pulse on the Door Unlock Output. The module will then begin looking for another Trigger Input.

4. INSTANT TRIGGER MODE: If configured for Trigger Mode the module will output a 0.8 second (-) pulse on the Door Lock Output immediately upon detecting 12vdc on the Trigger Input wire. The Door Pin Input is not monitored at all and does not need to be connected when using Instant Trigger Mode. As soon as the Trigger Input voltage is removed the module will output a 0.8 second (-) pulse on the Door Unlock Output. This mode is intended to be used with either a KPtechnologies latching RPM switch or custom designed end user supplied relay logic.

TESTING:
4. Plug Harness in to module

5. With all doors closed (if door pin is hooked up) turn the ignition on. Approximately six seconds later the doors should lock. Wait ten seconds and shut the ignition off and all doors should unlock.

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