

Secure Idle

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GM INSTALLATION INSTRUCTIONS

GM - All Mini Vans, Astro & Venture 1999-2005

PN: SI 440 T

"SECURE IDLE" is an ignition switch bypass device designed to provide all the electrical functions that the OEM ignition switch normally provides. For proper operation and long term performance, do not deviate from the wire connection instruction.

For each wire connection, remove approximately one half inch of insulation from the OEM wire, but DO NOT cut the wire into. Cutting the wires causes high resistance and a possible failure point. Strip app. one half inch of insulation from the end of the "SECURE IDLE" wires to be attached to the OEM wires. Wrap the "SECURE IDLE" wire around the bare area of the OEM wire and solder the connection. Tape the connection thoroughly after it cools.

DO NOT use "Scotch Lock" type pinch thru connectors. These connectors cannot handle the higher amperages of the ignition circuits, and will void the "SECURE IDLE" warranty.

Use the attached wiring diagram to locate the correct wire and pin location.

INSTALLATION

1. Remove the lower dash panel under the steering column to access the OEM ignition switch which is mounted on the steering column. Mount the "SECURE IDLE" unit near the ignition switch.
2. Locate a good metal ground and connect the BLACK "SECUER IDLE" wire using the ring connector provided.
3. Locate the OEM ignition switch and wiring. Remove the insulation from the ORANGE wire, Pin C6, Circuit 300, and attach the RED 14 Ga. "SECURE IDLE" wire according to the above instructions. This OEM wire will be hot in RUN only.

4. Locate the BROWN wire, Pin D6, Circuit 4.
Attach the Violet 14 Ga. "SECURE IDLE" wire according to the instructions.
This OEM wire will be hot in RUN and ACC.

5. Locate the PINK wire, Pin C5, Circuit 3.
Attach the WHITE 14 Ga. "SECURE IDLE" wire according to the instructions.
This OEM wire will be hot in RUN and START.

6. Locate the WHITE wire, Pin C1, Circuit 1390.
Attach the YELLOW 14 Ga. "SECURE IDLE" wire according to the instructions.
This OEM wire will be hot in START and RUN only.

7. Locate the RED wire, Pin D2, Circuit 342.
Attach the GRAY "FUSIBLE LINK" wire according to the instructions.
Connect the RED 10 Ga. wire to the "FUSIBLE LINK" by way of the quick disconnect connector.
This OEM wire will be HOT CONTINUOUSLY.

8. Locate the YELLOW wire, D1, Circuit 5.
Cut this wire into, being sure to leave enough room to strip back the ends and install Butt connectors.
Strip back the ends of the OEM wires app. one quarter of an inch. Crimp on the BLUE 14/16 Ga. Butt connectors.
Connect the GREEN "SECURE IDLE" wire to the YELLOW wire end which leads back to the wire harness.
Connect the BLUE "SECURE IDLE" wire to the YELLOW wire end which leads to the ignition switch.
This OEM wire will be HOT in START only.

Testing the "SECURE IDLE" Unit

1. With the shift lever in "PARK" turn the key to the "ON" or "RUN" position.
Push and release the "RED" push button switch. This activates the "SECURE IDLE" unit.
You will hear a single click when the button is pushed.

2. Turn the key to the "OFF" position. Test all OEM electrical functions, ie: blower motor, power windows, radio, etc.

3. Turn the key to the "START" position, the starter motor should not crank.

4. Pull the shift lever from "PARK" into "DRIVE", then back into "PARK". This resets the "SECURE IDLE" unit.
Turn the key to the "OFF" position.

5. Start the vehicle; activate the "SECURE IDLE" unit by pushing and releasing

the "RED" push button.

6. Turn the key to the "OFF" position and remove the key. The vehicle will remain running as it is now under "SECURE IDLE" control, and the steering wheel and the gear shift lever are locked.
7. Recheck all "RUN" and "ACCESSORY" electrical functions while the vehicle is under "SECURE IDLE" control.
8. With the brakes applied, insert the key and turn to the "ON" or "RUN" position. Move the gear shift lever from "PARK" to "DRIVE" then back to "PARK". This resets the "SECURE IDLE" unit and the vehicle is now back under OEM ignition switch control.
9. Turn the key to the "OFF" position and the engine will stop.
10. Tie wrap all loose wires and replace the removed panels.
11. To disable the "SECURE IDLE" unit, pull apart the quick disconnect. It is located on the "RED" 10 Ga. wire coming out of the "SECURE IDLE" unit.
12. Instruct all drivers on the proper operating, reset procedures and the location of the quick disconnect of the "SECURE IDLE" unit.
13. In the unlikely event that the engine will not turn off after the unit has been reset, the driver should disable the unit by pulling apart the quick disconnect.
14. If the engine stalls while under "SECURE IDLE" control, the unit must be reset before the engine can be restarted.