



MOPAR®

2006 Chrysler PT Cruiser

Remote Start System

INSTALLATION INSTRUCTIONS

Professional Installation Is Recommended



Warning! Remote Start Systems are only applicable to vehicles with automatic transmission!

1030882
REV.A
8/05



Technical Support

For Authorized Dealers - (800) 34-MOPAR

Hours: 9:00 a.m. - 6:00 p.m. EST Monday thru Friday

10:00 a.m. - 2:00 p.m. EST Saturday

K6859619

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The soldering procedure illustrated below must be followed when performing wire connections under the hood. Failure to use this procedure could result in improper performance of the remote start system.



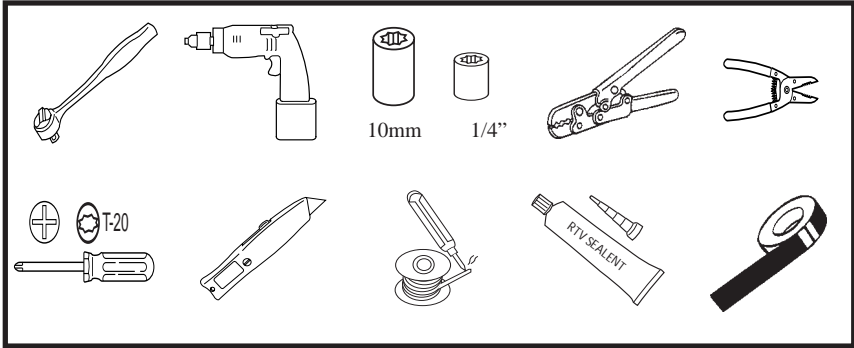
This product was manufactured in environmentally friendly manufacturing facility and may contain certain recycled materials. All materials meet or exceed original specifications for quality and reliability.

This device complies with part 15 of the FCC rules and with RSS-210 of the industry Canada. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

VEHICLE PREPARATION

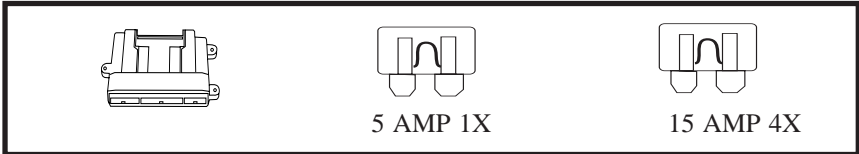
1. Lower one or more of the passenger windows so the keys do not get locked in the vehicle.
2. Disconnect and isolate the negative battery cable. The battery will need to be re-connected before programming.
3. Vehicle requires 2 valid Sentry Keys (if equipped) present at the time of installation.

TOOLS REQUIRED

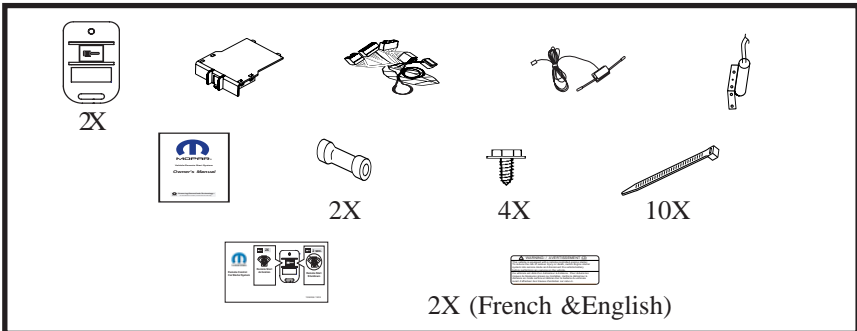


PARTS REQUIRED

Part Number 82208859



Part Number 82209870



Overview

The remote starter module harness will interface with the existing PT ignition switch connector, four center-splice connections, and a ground termination. Two wires will be routed through the cowl panel, to a hood-mounted safety switch and tachometer connection.

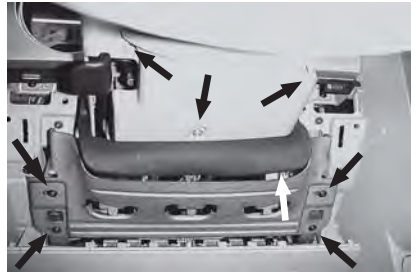
Vehicle Preparation

Remove driver's side lower dash panel, metal dash panel, air bag & steering column shroud.

- A. Remove the lower dash panel by using a trim stick to release the catch tabs on the backside of the panel. The top is held on by clips. Remove dash panel.



- B. Remove (4) screws from metal panel.
- C. Remove (3) screws from steering column shroud. Separate and remove steering column shroud.



- D. Remove (1) screw from left dash panel and remove panel. Disconnect connector if necessary.
- E. Remove (1) screw from the cluster cover panel located to the left of the steering column.



Vehicle Preparation Continued

- F. Remove (2) screws from the top corner of the air bag cover.
- G. Remove (2) screws from air bag module. Disconnect connector after ensuring battery is disconnected. Removal of the air bag is not mandatory, but makes the installation easier.



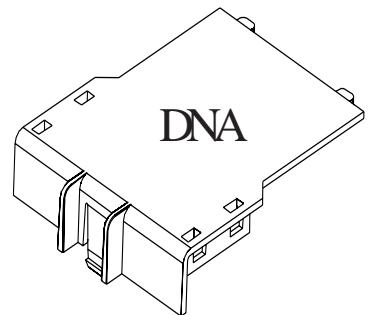
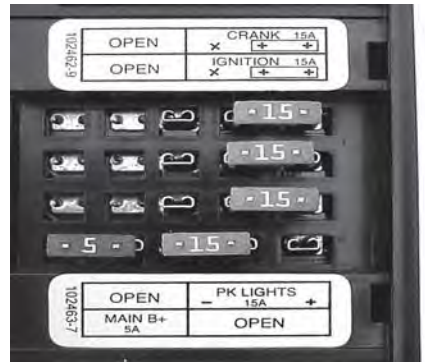
- H. Remove left kick panel. Panel is held on by clips.



Module Preparation

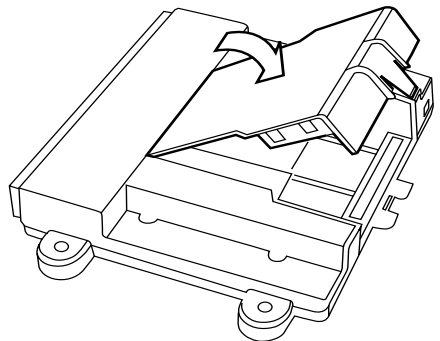
Place fuses into the control module.

- A. Observe fuse amperage ratings. Place the 5 Amp fuse into the “Main B+” location. Populate the remaining fuse locations, as shown in the diagram, with the 15 Amp fuses. Make sure to populate the 15 amp fuse with the “open” fuse label on the module.



Install DNA into the control module.

- B. Insert DNA into the control module.
Ensure the DNA assembly snaps completely in place.



Component Installation

Install Hood Safety Switch.

- A. Using (2) of the supplied 1/4" screws, secure hood safety switch on driver's side rear corner of hood per the diagram. **Note:** Wire exits top of switch. Switch must be bent at 45 degree angle.
- B. Using a supplied 1/4" screw, secure the ground lead from the switch to the metal brace as shown in the diagram. The remaining wire will be connected later.



- C. Locate a visible area in the front of the engine compartment to mount the underhood warning sticker as shown in the diagram.



Install Dipole Antenna

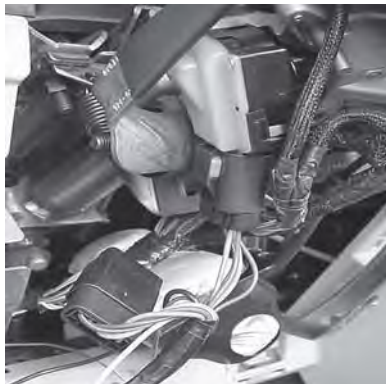
- D. Mount dipole antenna to the windshield above the rearview mirror and below the black windshield trim.
- E. Route the antenna wire above the headliner to the driver's A-pillar. Temporarily remove the A-pillar rubber gasket and run the antenna lead down through the left side dash opening. Replace the rubber gasket. Ensure the antenna is securely tucked above the headliner and is not visible along the entire length.



Custom Harness Installation

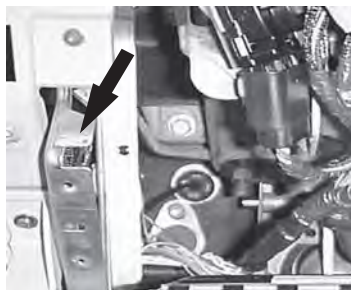
Ignition switch connector

- A. Locate ignition switch connector, directly behind the ignition switch. Release the secondary lock. While pushing on main release, remove connector from ignition switch.
- B. Connect the harness 5-way female connector to the vehicle's ignition switch.
- C. Connect the harness 5-way male connector to the vehicle's 5-way ignition connector previously removed from the ignition switch.



Ground

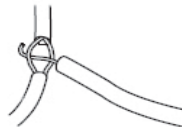
- D. Using a supplied 1/4" screw, secure the black ground wire with ring terminal to the metal under dash brace as shown in diagram.



Brake Connection

- E. Route the harness Dk Green/White wire to the brake switch. Center-splice to Dk Green/White wire in cavity #2 of the 6-way black brake connector.

Center-Splice Procedure



Caution: Keep wire away from exposed steering column!

Caution: Do not remove the brake lamp switch from the mounting bracket. If the switch is removed from the mounting bracket, it MUST be replaced with a new switch.



Parking Light Connection

- F. Locate the White/Violet wire in pin #12 of the 26-way white connector, found low in the left kick panel area. Center-splice the harness White/Violet wire into this wire, following the center-splice procedure.



Horn Connection

- G. Locate the Dk Green/Violet wire in pin #3 of the 6-way white connector found underneath the steering column. Center-splice the harness Dk Green/Violet wire into this wire, following the center-splice procedure.



- H. Route the two remaining wires (Black/White and Grey) through the cowl panel and into the engine compartment through an existing grommet.

Hood Switch Connection

- I. Using the supplied butt connector, connect the Black/White wire to the remaining wire from the hood safety switch.

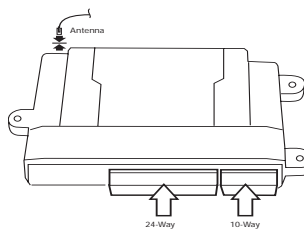
Tach Connection

- J. Route the Grey wire to the top of the engine at the coil connection point as shown. Disconnect the connector from the coil for easier connection. Center-splice the Grey wire to the Black/Grey wire at the coil. Solder the connection. **Caution: Re-connect the coil connector when completed.**



Control Module Connections

- K. Connect the 24-way and 10-way connectors into the PC-12 Remote Start module. Also, connect the 2-way antenna connector (on end opposite the main harness connections).



Install SKREEM Interface

- A. Remove the screw securing the SKREEM module to the ignition cylinder. Unplug and slide the assembly off of the ignition cylinder.
- B. Following the directions on the supplied ampule of adhesive primer. Apply a thin coating of primer to the entire SKREEM transceiver antenna coil. Allow the primer to dry for 5 minutes before proceeding to the next step.
Note: Use goggles and gloves to protect yourself from any accidental contact.
- C. Remove backing from one side of the supplied two-way tape and apply tape around the SKREEM transceiver antenna coil.
- D. Remove the remaining backing on the tape and position the antenna loop on the tape around the SKREEM transceiver antenna coil, with the stripe side facing out toward the key opening. Press down on antenna coil to ensure a strong bond.
- E. Using a supplied wire tie, secure the antenna coil.
- F. Re-install the SKREEM module to the ignition cylinder and secure with the screw. Make sure to plug the connector back into the SKREEM module.



System Programming

Notes:

1. Reconnect the negative battery terminal prior to programming.
2. Up to a total of 8 transmitters can be programmed into memory.
3. **Transmitters shipped with complete kits are pre-programmed to the DNA and do not need to be programmed at this time.**

Transmitter Programming

- A. Make sure battery is connected.
- B. Close hood.
- C. Turn the ignition to the “on” position.
- D. Press and hold the programming button. *After 10 seconds the horn will chirp and the lights will flash 3 times indicating the system is now in transmitter learn mode. Note: If horn does not sound when the lights flash (or sounds inconsistently) turn “off” option 7 in option bank #1. See section “2. Option Programming”.*
- E. Release the programming button.
- F. Press button on transmitter to be programmed. *The horn will chirp and the lights will flash 1 time indicating that the transmitter has been learned.*
- G. Repeat step F for additional transmitters.

Option Programming

The remote start system has several installer programmable options which can be changed to accommodate different circumstances. In most cases, there will be no need to change any default settings. There will be cases (such as diesel vehicles), where the delay before crank option must be set.

Note:

Some vehicles require the horn pulse extend (option #7, option bank #1) to be turned to the “off” position for the horn to operate properly.

Note:

This system has 2 option banks. Bank 1 has 7 options, and Bank 2 has 2 options. Refer to the Option Bank Chart on page 18 for details.

- A. Follow the steps above to enter Transmitter Learn Mode.
- B. Press and release the programming button. *The horn will chirp and the lights will flash 4 times indicating the system has entered Option Bank 1.*

Option Programming Continued

- C. Press and release the brake pedal. *The horn will chirp and the lights will flash 1 time indicating the system is at option 1.* Additional press and releases of the brake pedal will advance to the next option. *The horn will chirp and the lights will flash according to which option is selected (i.e. Two chirps and flashes indicates option 2).*
- D. Pressing the transmitter button changes the setting of the option. The status LED (located in the main harness approximately 4" from the module) indicates the setting of the option. LED "on" indicates the option is on, LED "off" indicates the option is off.
- E. Pressing and releasing the programming button again will put the system into Option Bank 2. *The horn will chirp and the lights will flash 5 times indicating the system has entered Option Bank 2.*
- F. Press and release the brake pedal to cycle through the options in Bank 2.

Notes:

1. Once the system has reached the last option in a bank, pressing and releasing the brake pedal will return back to Option 1 in that bank.
2. Once the system has reached Option Bank 2, pressing and releasing the programming button will return back to Option Bank 1.
3. To reset options back to their default setting, while in option learn mode, push and hold the transmitter button until the horn chirps and lights flash 5 times.

Tach Rate Programming (Required for system to operate)

- A. Close hood.
- B. Turn the ignition to the “on” position.
- C. Press and hold the programming button. *After 10 seconds the horn will chirp and the lights will flash 3 times.*
- D. Release the programming button.
- E. Press and release the programming button again. *The horn will chirp and the lights will flash 4 times indicating the system has entered Option Bank 1.*
- F. Press and release the programming button again. *The horn will chirp and the lights will flash 5 times indicating the system has entered Option Bank 2.*
- G. Advance to Option 2 by pressing and releasing the brake pedal 2 times. *The horn will chirp and the lights will flash 2 times indicating the system is at Option 2.*
- H. Start the vehicle with the key. *The horn will chirp and the lights will flash once approximately every 3 seconds indicating a valid tach signal.*
- I. Once the engine has settled to a normal idle speed, press and release the brake pedal to set the tach rate.
- J. Turn the ignition off.

Note:

If the system is not chirping the horn and flashing the lights every 3 seconds after the ignition has started, the system is not seeing a valid tach signal. Check your tach connection (Black/Grey at coil). Repeat the Tach Rate Programming procedure.

Tach Rate Programming must be done before the SKREEM learn procedure.

SKREEM Transponder Interface Programming.

2 programmed Sentry keys are required for this step!

NOTE: Review and understand steps A-J prior to performing.

- A. Close hood.
- B. Insert one of the two valid Sentry Keys into the ignition switch and turn the ignition switch to the “on” position.
- C. After the ignition has been activated for more than 3 seconds (but no more than 15 seconds), cycle the ignition switch back to the “off” position. Remove the key and keep it at least 2 feet away from the ignition switch.
- D. Within 15 seconds of removing the first key, insert the second valid Sentry Key into the ignition switch and turn the ignition switch to the “on” position.
- E. Approximately 10 seconds after the ignition has been activated by the second Sentry Key, the dash theft-security light will start to flash, and a single audible chime (not the key-in-cylinder chime) will sound to indicate that the system has entered “Customer Learn” programming mode.
- F. Cycle the ignition switch back to the “off” position. Remove the key and keep it at least 2 feet away from the ignition switch. Theft-security light will turn off.
- G. Press and release the programming button located on the custom harness.
- H. Within 60 seconds, press the start button on the remote start transmitter **(2) times**.
- I. Approximately 10 seconds after completion of Step H, a single audible chime will sound and the theft-security light will stop flashing and stay on solid for 3 seconds, and then turn off to indicate that the SKREEM Interface module has been successfully programmed.
- J. The system will remote start the engine approximately 15 seconds after Step H. Press the brake pedal to shut down the remote start system.

Note:

In some vehicles, during the SKREEM Interface learn procedure, the vehicle will start and stall on the first remote start attempt. The second remote start attempt will be successful. This is a normal condition of the learn procedure. If the vehicle does not start, refer to the Troubleshooting guide on page 19.

Once a SKREEM Interface Module has been programmed to a WCM/vehicle, it is permanently assigned to that WCM/vehicle and cannot be used on any other WCM/vehicle.

System Testing

Use the following checklist to ensure all features function as indicated.

- Remote start - Press start button 2X.
- Remote stop - Press and hold start button for 2 seconds.
- Hood safety switch shutdown - While under remote start, open hood - engine should shut down.
- Brake safety shutdown - While under remote start, press brake - engine should shut down
- Key-in-sense circuit - With key in the ignition cylinder, remote start should not activate.
- Overrev shutdown - While under remote start, press accelerator - system should shut down at 3X idle.
- Service Mode - With ignition turned on with key, press remote start button 3X. Repeat to exit Service Mode.
- Heater/Air Conditioning - Ensure Heater/AC works during remote start.

Service Mode

Service mode is used whenever it is necessary to disable the remote start feature, such as during vehicle service. The vehicle will not start by remote if Service mode is activated.

Entering Service mode

- A. Turn ignition on with the key.
- B. Press the start button on the remote transmitter 3 times. *2 seconds later, the horn will chirp and the lights will flash 3 times, indicating the system is in Service mode.*
- C. While in Service mode, whenever a remote start attempt is made, the horn will chirp and the lights will flash 3 times alerting the user that the system is in Service mode.

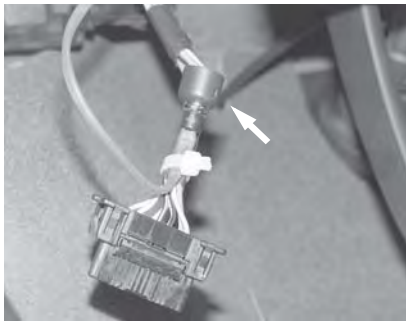
Exiting Service mode

- A. Turn ignition on with the key.
- B. Press the start button on the remote transmitter 3 times. *2 seconds later, the horn will chirp and the lights will flash 1 time, indicating the system has exited Service mode.*

Reassembly

Module & Harness mounting

- A. **Disconnect battery (if air bag equipped).**
- B. Using supplied wire ties, secure the remote start module to existing wire harnesses under the left side of the dash.
- C. Using supplied wire ties, secure the SKREEM Interface module to an existing wire harness under the dash.
- D. Using supplied wire ties, secure the main harness and SKREEM Interface harnesses to existing wire harnesses under the dash. Ensure no wires will become entangled in the steering column knuckle and that they are not visible to vehicle occupants.
- E. Using a supplied wire tie, secure the programming button to the harness leading to the vehicle's diagnostic connector. Consistency in mounting this switch in the same place every time, will make it easier to find in case the system comes back for service. Also, the dash will not have to be disassembled to access it.



Dash reassembly

- A. Reverse the dash disassembly procedure.

Re-connect Battery

Option Bank Chart

Option Bank #1 (4 chirps)

Factory Setting

1. Not used
Reserved for future upgrade feature..... .On
2. Not used
Reserved for future upgrade feature..... .On
3. Tach diagnostic mode
This feature should only be used for troubleshooting
purposes only!.....Off
4. Car start run time
LED “on” - 15 minutes, LED “off” - 10 minutes.....Off
5. Not used
Reserved for future upgrade feature.....Off
6. Diesel timer
Delays crank attempt 30 seconds after ignition on.....Off
7. Horn pulse short/long
LED “on” - Short output, LED “off” - Long output.....On

Option Bank #2 (5 chirps)

Factory Setting

1. Key-in-sense polarity
LED “on” - Positive, LED “off” - Negative.....Off
2. Learn tachometer
Horn will chirp every 3 seconds, press brake to set idle speed.

Troubleshooting

- 1. Horn honks 4 times & vehicle does not start - no tach learned.**
 - A. Ensure good connection at tach wire.
 - B. Re-program tach (see page 14).
- 2. Starter cranks too long.**
 - A. Re-program tach - allow vehicle to come to a low idle during tach learn procedure.
- 3. Ignition turns on, then horn honks 2 times & vehicle does not start - Key-in-sense circuit activated.**
 - A. Remove key from ignition cylinder.
 - B. Key-in-sense polarity set incorrectly. Program for negative input (see option bank chart page 18).
- 4. Horn honks 2 times & vehicle does not start - safety input activated.**
 - A. Ensure hood is closed.
 - B. Ensure hood switch is grounded and has a good connection.
 - C. Ensure brake switch is not depressed.
 - D. Ensure brake switch wire is connected to correct vehicle wire.
- 5. Horn honks 3 times & vehicle does not start - Service Mode engaged.**
 - A. Disengage service mode (see page 16).
- 6. Vehicle starts then stalls - SKREEM Interface not learned.**
 - A. Ensure 2 and 4 way connectors are connected
 - B. Ensure antenna coil is wrapped tightly around the ignition cylinder SKREEM antenna ring.
 - C. Re-learn SKREEM Interface module (see page 15).
- 7. Horn honks 8 times & vehicle does not start - Safety feature - vehicle will only remote start 8 consecutive times until the vehicle key is used.**
 - A. Start vehicle with the ignition key to reset.

Changing the Remote Control Battery; Mopar part # 05140773AA:

1. With a small flathead screwdriver, carefully pry the two halves of the remote transmitter apart.
2. Gently pry the transmitter circuit board out of the case.
3. Slide the black battery holder out of the bottom of the circuit board. Do not lose the black battery holder.
4. Remove the old batteries and replace with new ones. Observe the (+) and (-) signs when removing the old batteries.
5. Gently snap the circuit board back into the transmitter case.
6. Carefully snap the case halves back together, then test the remote control.

It is not necessary to re-program the remote control after changing the batteries.

CHRYSLER PT CRUISER SYSTEM LAYOUT

