

CRPD4



SoundGate®

Purpose

The SoundGate CRPD4 lets you connect an iPod® digital media player directly to your factory radio in the Chrysler Corporation vehicles listed below. The CRPD4 provides a +12V ignition lead, charges your iPod device and allows for control of iPod device functions through the factory radio controls.



Features

The SoundGate CRPD4 utilizes sophisticated microprocessor control, ultra-reliable surface-mount construction, and advanced software design to flawlessly integrate with Chrysler Corporation audio systems. Utilized with the included SoundGate CORE™ product, the CRPD4 will enable control of your Apple iPod device through the controls of the factory radio.

The CRPD4 works in the following vehicles:

CHRYSLER

300C	2005–2007
Aspen	2007
PT Cruiser	2006–2009

Magnum/SRT-8	2005–2007
Pickup 1500	2006–2008
Pickup 2500/3500	2006–2009

JEEP

Commander	2006–2007
Compass	2007–2008
Grand Cherokee	2005–2007
Patriot	2008

Note: Installation of this device will replace one of the following radio functions if present:

*Rear-Seat DVD Mode
Satellite Radio*

DODGE

Caliber	2007–2008
Charger/SRT-8	2006–2007
Dakota	2005–2007
Durango	2004–2007

Note: REF Radios support only Satellite radio emulation.

Please visit www.soundgate.com for the most current compatibility information.

Simple-fi.®

If you experience problems, call SoundGate Technical Support at 800-256-0808, or email us at support@soundgate.com.

www.soundgate.com

Rev 20090429

Before You Begin



WARNING

DO NOT DISASSEMBLE OR ALTER

Doing so may result in an accident, fire, or electric shock.

Do not block your view

Do not mount product or any added audio/video equipment where it can block your view through the windshield or block your view of dashboard indicators and displays.

Do not block safety devices

Do not mount product or any added audio/video equipment where it can obstruct the operation of any safety device, such as the airbag.

Distraction warning

Do not allow product or any added audio/video equipment to distract you while you are driving.

BEFORE WIRING, DISCONNECT THE CABLE FROM THE NEGATIVE BATTERY TERMINAL

Before starting any installation work, wait 90 seconds after turning the ignition switch to the LOCK position and disconnecting the negative (-) terminal from the battery. The supplemental restraint system (SRS), or airbag(s) is equipped with a backup power source. If installation work is started less than 90 seconds after disconnection of the negative (-) battery terminal, the SRS may deploy. When the negative (-) terminal cable is disconnected from the battery, the clock and audio systems' memory may be erased. Before starting installation work, make a record of the clock and audio systems' memory settings. When installation is complete, reset the clock and audio systems to their previous settings. Power tilt, power telescopic steering column, power seats, power mirrors, power shoulder belt anchorage, and other power accessories may or may not be equipped with a memory function; consider keeping a record of these settings as well.

When installation is complete, readjust the features to their previous settings.

Never use a backup power supply (such as another battery) during installation work in an attempt to avoid losing these memory settings.



CAUTION

DO NOT ALLOW CABLES TO BECOME ENTANGLED IN SURROUNDING OBJECTS

Cables or wiring that obstruct or get caught on places such as the steering wheel, shift lever, brake pedals, etc. can be extremely hazardous.

DO NOT INSTALL IN LOCATIONS WITH HIGH MOISTURE OR DUST

Moisture or dust may result in product failure.

HAVE THE WIRING AND INSTALLATION DONE BY EXPERTS

The wiring and installation of this product requires special technical skills and experience.

USE ONLY SPECIFIED ACCESSORY PARTS

Use of other than specified parts may damage product internally.

FOLLOW THE OPERATIONAL AND INSTALLATION MANUALS.

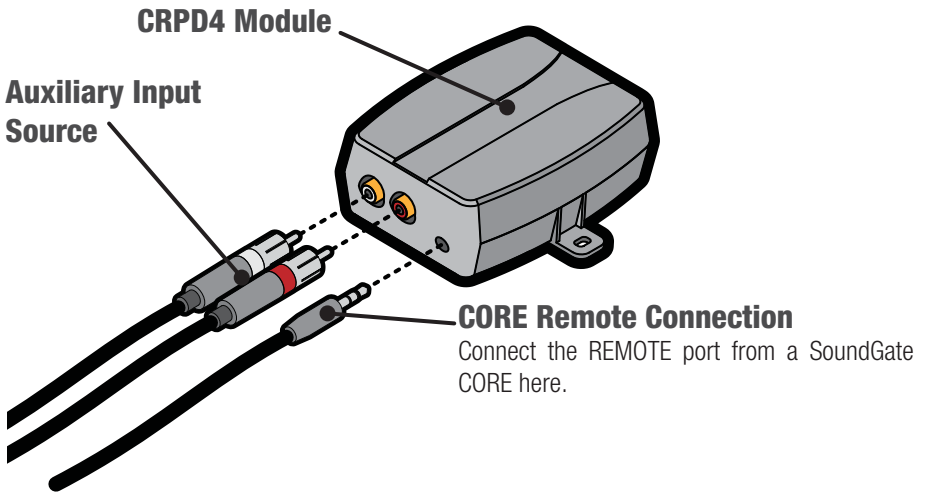
YOU SHOULD READ AND FAMILIARIZE YOURSELF THOROUGHLY WITH THE FOLLOWING INFORMATION PRIOR TO INSTALLING AND USING THIS UNIT. IN ADDITION, YOU MUST CAREFULLY READ AND FOLLOW THE INSTALLATION SCHEMATICS AND INSTRUCTIONS FOR THE PRODUCT AND THE VEHICLE IN WHICH IT IS BEING INSTALLED. FAILURE TO FOLLOW INSTALLATION INSTRUCTIONS MAY DAMAGE THE PRODUCT AND THE VEHICLE, WILL VOID THE PRODUCT WARRANTY, AND MAY VOID THE VEHICLE WARRANTY.

CHECK YOUR LOCAL LAWS

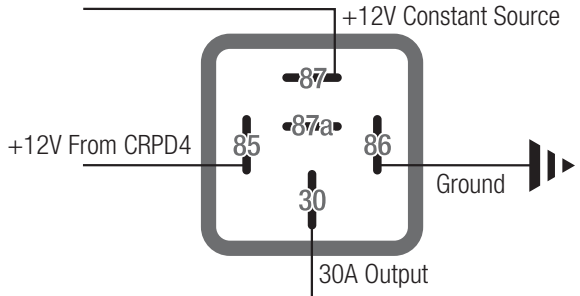
Some States/Provinces or other governmental jurisdictions (such as cities) may have laws that prohibit the operation of a video screen within the sight of the driver. If you have purchased such a product, you should use the product only in locations where it is legal to do so, and if you do use the product, set up the screen so it is only visible to passengers.

TROUBLESHOOTING

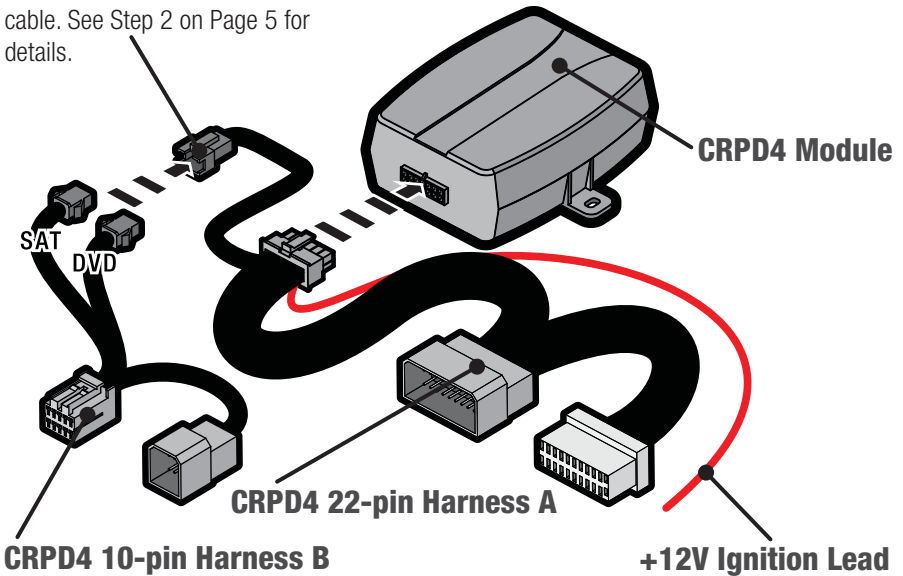
Should this product fail to operate properly, please contact your Dealer or SoundGate Technical Support at 800-256-0808.

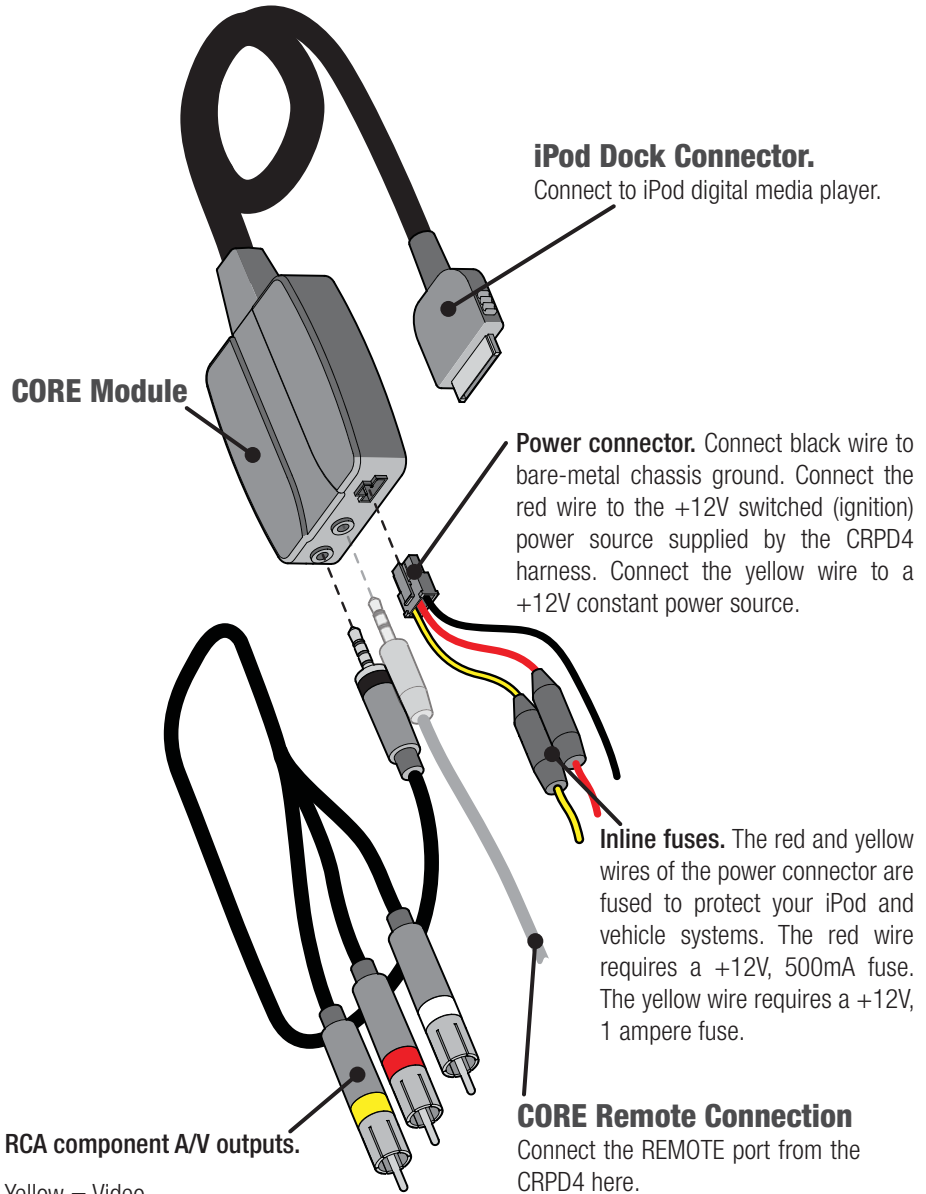


If you need more than 1 ampere, please install a relay according to the diagram at the right.



Connect either SAT or DVD cable. See Step 2 on Page 5 for details.





BEFORE YOU BEGIN:

1. Turn the ignition off.
2. Ensure the factory radio is turned off

Installation**IMPORTANT**

The CRPD4 module has two emulation modes that are selected by a jumper labeled **SW1** on the circuit board. When the jumper is on, the CRPD4 will emulate and replace the factory satellite radio. When the jumper is off, the CRPD4 will emulate and replace the factory rear-seat DVD. This will allow you to maintain as many of the factory options as possible. Each mode will offer different functionality with your iPod device. Please see the table on page 7 for details.

STEP**1**

Gain access to the factory radio's rear panel. The CRPD4 connects directly to the rear panel of the factory radio. Full or partial disassembly of the dash will be necessary. If you are unsure of this procedure, please consult a factory service manual or have the work performed by a mobile electronics specialist. Pay special attention to warnings or instructions regarding working near airbags, other safety devices, or security systems.

STEP**2**

Connect the appropriate CRPD4 harnesses to the factory radio. The CRPD4 comes with two wiring harnesses that are necessary for functionality. Disconnect the factory radio's 22-pin connection and replace it with the 22-pin male plug on Harness A. Take the remaining 22-pin female plug of Harness A and connect it to the disconnected factory plug.

With the main connection of Harness A in place, connect the smaller 3-pin male plug on Harness B into the 3-pin female plug on Harness A, making certain that you choose the 3-pin male plug that matches the mode you have elected to emulate and replace (SAT or DVD).

Disconnect the 10-pin factory plug on your factory radio and replace it with the 10-pin male plug of Harness B. Connect the remaining 10-pin female plug of Harness B to the disconnected 10-pin factory plug.

The +12V ignition lead (red wire) output is 1 ampere. Connect the +12V ignition lead to the red wire on the power connector from the CORE module.

STEP

3

Connect your SoundGate CORE. The SoundGate CORE will allow you to control the functions of your iPod device through the controls of your factory radio. Connect the included A/V breakout cable to the **A/V OUT** jack on the SoundGate Core. Plug the left and right RCA audio connectors into the audio inputs of the CRPD4 Module. If you have an aftermarket DVD player or video receiver, plug the yellow composite RCA video connector into the aftermarket device's video input. Connect a 1/8" patch cable from the CORE remote connection to the remote input of the CRPD4.

Discreet Power Harness Wiring. Connect the black wire of the power connector (shown on page 4) to a clean, bare-metal chassis ground. When in doubt, measure the resistance between potential grounding points and the vehicle battery using a multimeter. Choose a grounding point with equivalent resistance as other grounded components in the audio system. Connect the yellow wire to a constant +12V power source (vehicle battery). We DO NOT recommend the +12V constant in the factory radio harness due to the possibility of excessive voltage drop during vehicle starting. Connect the red wire to the +12V switched (ignition) power source supplied by the CRPD4 harness. The red wire requires a 12V, 500 mA inline fuse; the yellow wire requires a +12V, 1 ampere fuse. **Note: Make sure that replacement fuses match this specification.**

Once your SoundGate CORE is connected, use the table on Page 7 to determine what functions of the iPod device are controlled by the factory radio. Please note that the control of the device will differ depending upon which mode you have selected to emulate and replace: Rear-Seat DVD or Satellite. For more information on the CORE and other exciting products offered by SoundGate, please visit www.soundgate.com.

STEP

4

Mount all components. Mount the CRPD4 behind or under the dash (mounting hardware not included). Be careful not to drill into wiring or vehicle mechanisms. You are solely responsible for securely fastening the CRPD4 in your vehicle. Make certain that wires and cables cannot be damaged by screws, clips or sharp, exposed pieces of metal.

Ensure that the auxiliary inputs and CORE plug are in a convenient location for connection.

With the CRPD4 passing audio, test the auxiliary input by pressing the mode button until you have selected the input source the CRPD4 is replacing.

Please note that the table on the following page is a generic control list. Your radio might not support all functions.

iPod Control

CHRYSLER RADIO CONTROL	DVD EMULATION MODE	SAT EMULATION MODE
Preset 4	-----	Playlist ↑
Preset 2	-----	Playlist ↓
Seek ↑	Track ↑	Track ↑
Seek ↓	Track ↓	Track ↓
Preset1	-----	Repeat
Preset 3	-----	Random
Preset 5	-----	Play/Pause
CHRYSLER NAV RADIO CONTROL	DVD EMULATION MODE	SAT EMULATION MODE
Preset 4	-----	Playlist ↑
Preset 2	-----	Playlist ↓
Seek ↑	Track ↑	Track ↑
Seek ↓	Track ↓	Track ↓
Preset 1	-----	Repeat
Preset 3	-----	Random
Preset 5	-----	Play/Pause

**IMPORTANT**

When the CRPD4 is configured to emulate satellite radio, all presets (1–12) **must** be programmed to the same station. The CRPD4 may not function properly if these steps are skipped. To program satellite presets:

1. Press the **MODE** button to select Satellite radio
2. Select any channel
3. After selecting your channel, press the **SET** button and then press **button 1**. This will program station 1.
4. Repeat this step for channels 2–6.
5. To program channels 7–12 you must press the **SET** button twice, then press any of the buttons 1–6. **Button 1** programs station 7, **button 2** programs station 8 etc.
6. Repeat this step for the remainder of the channels (8–12).

Why SoundGate Dealers have the edge...

The technologies used in today's vehicles are as sophisticated as any laptop computer. At SoundGate we believe these new technologies are full of opportunities for mobile electronic dealers across the nation. We make it a high priority to not only research these new systems, but to understand them and their impact on the aftermarket car audio industry. Armed with this knowledge, we are well equipped to help you integrate new components into these systems with our innovative, high-performance interfaces and unparalleled technical support.

Be sure to ask your autosound specialist about these other exciting SoundGate products...

- Auxiliary Input Interfaces and Docking Stations which allow you to input audio from MP3 Players, DVD/Video, Satellite Radio, and more to OEM and aftermarket car audio systems
- High-performance Radio Replacement
- Interfaces for seamlessly integrating new receivers or CD players into OEM audio systems
- Competition-Grade Interfaces for adding amplifiers
- Remote Audio Control Interfaces that let you control aftermarket receivers and CD players from your factory rear seat, or steering-wheel mounted audio controls.
- And many others!

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