

# CRAUX4

# SoundGate®

## Purpose

The SoundGate CRAUX4 lets you install an auxiliary audio input device through the factory source unit in the Chrysler Corporation vehicles listed below. The CRAUX4 supplies a +12V ignition lead and provides direct audio input for your multimedia device.



## Features

The SoundGate CRAUX4 utilizes sophisticated microprocessor control, ultra-reliable surface-mount construction, and advanced software design to flawlessly integrate with Chrysler audio systems. When utilized with a SoundGate CORE™ product, the CRAUX4 will enable control of your Apple iPod® or Microsoft Zune™ device through the controls of the factory source unit.

### *The CRAUX4 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](http://www.soundgate.com) for the most current compatibility information.

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If you experience problems, call SoundGate Technical Support at 800-256-0808, or email us at [support@soundgate.com](mailto:support@soundgate.com).

[www.soundgate.com](http://www.soundgate.com)

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## 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.**

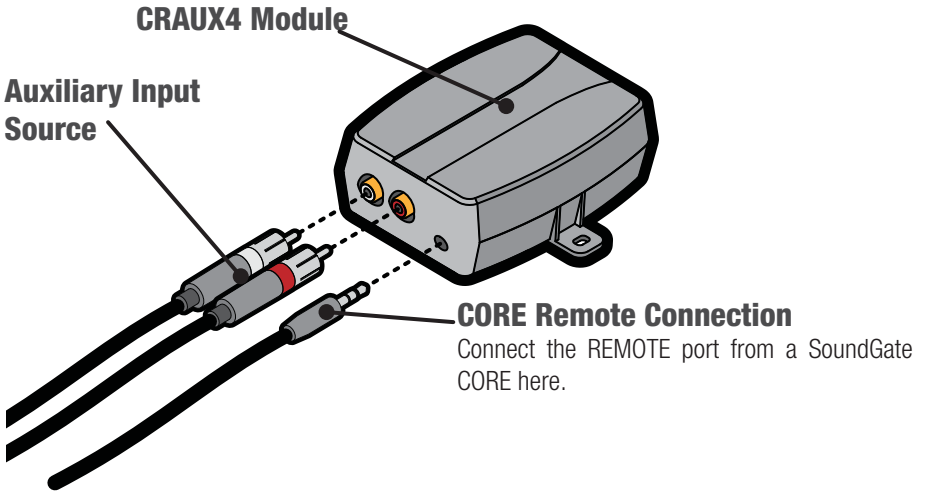
YOU SHOULD READ AND FAMILIARIZE YOURSELF THOROUGHLY WITH THE FOLLOWING INFORMATION PRIOR TO INSTALLING AND USING THIS UNIT. IN ADDITION, YOU MUST CAREFULLY READ AND FOLLOW THE INSTALLATION SCHEMATICS AND INSTRUCTIONS FOR THE PRODUCT AND THE VEHICLE IN WHICH IT IS BEING INSTALLED. FAILURE TO FOLLOW INSTALLATION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

#### **CHECK YOUR LOCAL LAWS**

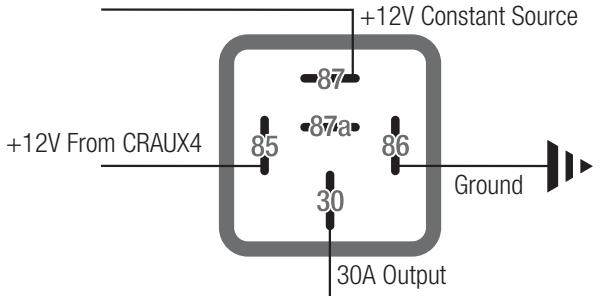
Some States/Provinces or other governmental jurisdictions (such as cities) may have laws that prohibit the operation of a video screen within the sight of the driver. If you have purchased such a product, you should use the product only in locations where it is legal to do so, and if you do use the product,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

#### **TROUBLESHOOTING**

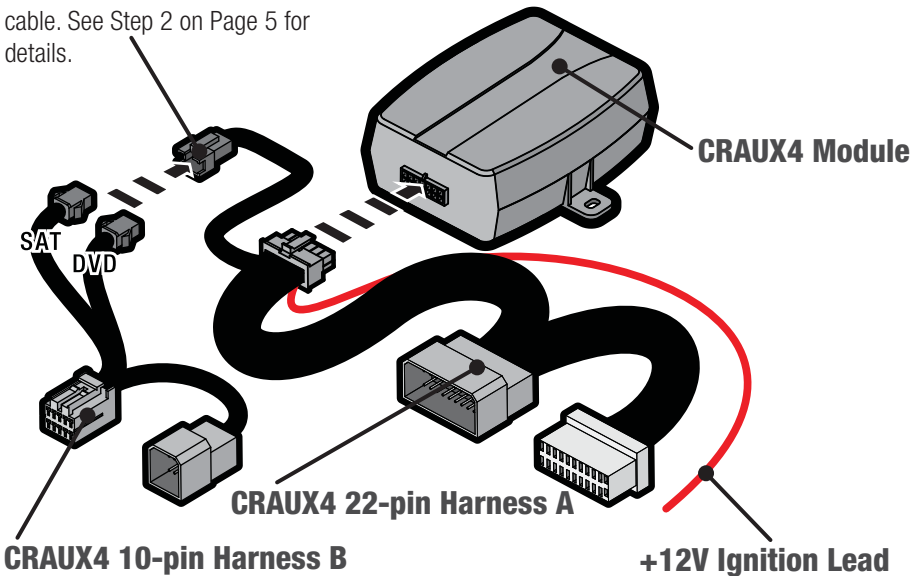
Should this product fail to operate properly, please contact your Dealer or SoundGate Technical Support at 800-256-0808.



*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 CRAUX4 has two emulation modes that are selected by a jumper labeled **SW1** on the circuit board. When the jumper is on, the CRAUX4 will emulate and replace the factory satellite radio. When the jumper is off, the CRAUX4 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 or Zune device. Please see the table on pages 5 and 6 for details.

STEP

**1**

**Gain access to the factory radio's rear panel.** The CRAUX4 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 CRAUX4 harnesses to the factory radio.** The CRAUX4 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. If not in use, please tape off this wire.

**STEP 3** 

**Mount all components.** Mount the CRAUX4 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 CRAUX4 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 optional CORE plug are in a convenient location for connection.

With the CRAUX4 passing audio, test the auxiliary input by pressing the mode button until you have selected the input source the CRAUX4 is replacing.

**STEP 4** 

**SoundGate CORE Functionality.** By adding a SoundGate CORE product to your installation, you will gain control of your iPod or Zune device via the factory source unit controls. To do this, connect a 1/8" patch cable from the CORE remote connection to the remote input of the CRAUX4. Once this connection is in place, use the table below to determine what functions of the iPod or Zune are controlled by the factory source unit. 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 SoundGate CORE, please visit [www.soundgate.com](http://www.soundgate.com).

*Please note that the tables below are a generic control list. Your radio might not support all functions.*

CHRYSLER RADIO CONTROL	Zune Control		iPod Control	
	DVD EMULATION MODE	SAT EMULATION MODE	DVD EMULATION MODE	SAT EMULATION MODE
Preset 4	-----	Zune pad 	-----	Playlist 
Preset 2	-----	Zune pad 	-----	Playlist 
Seek 	Track 	Track 	Track 	Track 
Seek 	Track 	Track 	Track 	Track 
Preset1	-----	Back	-----	Repeat
Preset 3	-----	Enter	-----	Random
Preset 5	-----	Play/Pause	-----	Play/Pause

## Zune Control

## iPod Control

CHRYSLER NAV RADIO CONTROL	DVD EMULATION MODE	SAT EMULATION MODE	DVD EMULATION MODE	SAT EMULATION MODE
Preset 4	-----	Zune pad <b>▲</b>	-----	Playlist <b>▲</b>
Preset 2	-----	Zune pad <b>▼</b>	-----	Playlist <b>▼</b>
Seek <b>▲</b>	Track <b>▲</b>	Track <b>▲</b>	Track <b>▲</b>	Track <b>▲</b>
Seek <b>▼</b>	Track <b>▼</b>	Track <b>▼</b>	Track <b>▼</b>	Track <b>▼</b>
Preset 1	-----	Back	-----	Repeat
Preset 3	-----	Enter	-----	Random
Preset 5	-----	Play/Pause	-----	Play/Pause



### IMPORTANT

When the CRAUX4 is configured to emulate satellite radio, all presets (1–12) **must** be programmed to the same station. The CRAUX4 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 **RND/SET** button (located at the lower right-hand corner of the radio) 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 **RND/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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**[www.soundgate.com](http://www.soundgate.com)**

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