

**\* IMPORTANT WARNING**

THIS PRODUCT INCLUDES INSTRUCTIONS FOR INSTALLATION WHICH MUST BE CAREFULLY FOLLOWED. THE INSTRUCTIONS ARE WORDED IN SUCH A MANNER TO ASSUME THAT THE INSTALLER IS CAPABLE OF COMPLETING THESE TYPE OF ELECTRONIC INSTALLATIONS. IF YOU ARE UNCLEAR AS TO WHAT YOU ARE INSTRUCTED TO DO OR BELIEVE THAT YOU DO NOT UNDERSTAND THE INSTRUCTIONS SO AS TO PROPERLY AND SAFELY COMPLETE THE INSTALLATION YOU SHOULD CONSULT A TECHNICIAN WHO DOES HAVE THIS KNOWLEDGE AND UNDERSTANDING. **FAILURE TO FOLLOW THESE INSTRUCTIONS CAREFULLY AND TO INSTALL THE INTERFACE AS DESCRIBED COULD CAUSE HARM TO THE VEHICLE OR TO SAFETY SYSTEMS ON THE VEHICLE. INTERFERENCE WITH CERTAIN SAFETY SYSTEMS COULD CAUSE HARM TO PERSONS AS WELL. IF YOU HAVE ANY QUESTIONS IN THIS REGARD PLEASE CALL THE HELP LINE OR THE METRA AT 1-800-221-0932 FOR ASSISTANCE.**



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**CHTO-02****INSTALLATION INSTRUCTIONS**

**\* READ IMPORTANT WARNING INSIDE BEFORE ATTEMPTING ANY INSTALLATION**

The CHTO-02 is designed to be used in the vehicles listed below that have the amplified sound system. The CHTO-02 also provides a Mute, Parking Brake, VSS or Speed Sense, and a Reverse output to make installing an aftermarket navigational radio simpler and less time consuming.

*\*NOTE: THE VEHICLES IGNITION SWITCH MUST BE IN THE OFF POSITION BEFORE PLUGGING THE CHTO-02 INTERFACE IN. ALSO THE KEY MUST BE CYCLED AT A MEDIUM PACE AT LEAST ONCE BEFORE BEGINNING TESTING.*

**APPLICATIONS**

- CHRYSLER  
PACIFICA 2004-2007
- DODGE  
RAM 2005

**INTERFACE COMPONENTS**

- CHTO-02 MODULE
- 14 PIN HARNESS WITH RCA'S
- 16 PIN HARNESS TO 22 PIN CHRYSLER HARNESS

**TOOLS REQUIRED FOR INSTALLATION**

- Cutting Tool • Tape • Crimping Tool • Connectors

## CHTO-02

### WIRING THE CHTO-02

**\* Important:** Before beginning any of the following, disconnect the negative battery terminal to prevent accidental short circuit.

### CONNECTIONS TO BE MADE ON THE 22 PIN GRAY HARNESS:

1. Connect the **orange wire** to the radio's **illumination wire**. if wire is not present, tape up wire.

### CONNECTIONS TO BE MADE ON THE 16 PIN HARNESS

1. Connect the **yellow wire** to the radio's 12 volt constant/battery back up wire.
2. Connect the **black wire** to the radio's ground wire.
3. When completed, plug the **16 pin harness** into the **CHTO-02**.

### CONNECTIONS TO BE MADE ON THE 14 PIN HARNESS

1. Connect the **Red** wire to the ignition/accessory wire of the aftermarket radio.
2. Connect the **Blue/White** wire to the amp turn on wire of the aftermarket radio.
3. Connect the **White** rca to the left front rca output of the aftermarket radio.
4. Connect the **Gray** rca to the right front rca output of the aftermarket radio.
5. Connect the **Green** rca to the left rear rca output of the aftermarket radio.
6. Connect the **Purple** rca to the right rear rca output of the aftermarket radio.
7. Connect the **Brown** wire to the mute wire of the aftermarket radio. If the aftermarket radio does not have a Mute wire, tape up the Brown wire.

The following wires on the 14 pin harness are for the aftermarket radios that have navigation built in:

- Connect the **Green** wire to the parking brake wire of the aftermarket navigation radio.
- Connect the **Blue/Pink** wire to the VSS or speed sense wire of the aftermarket navigation radio.
- Connect the **Green/Purple** wire to the reverse wire of the aftermarket navigation radio.

**WHEN COMPLETED, PLUG THE 14 PIN HARNESS INTO THE CHTO-02.**

### INSTALLING THE CHTO-02

1. With all connections completed to the aftermarket radio, plug the 22 pin connector into the vehicles corresponding wiring harnesses.
2. Reconnect the negative battery terminal, then cycle the key by turning the ignition on then back off, then back on again to test the radio.

### TESTING THE CHTO-02

1. Turn the ignition on then the radio to verify the radio works. Check balance and fader controls for proper operation. If controls are backwards, check to see if the RCA's are in the correct location.

**Note:** In the 2005 Dodge Ram there will be no fading control.

### AUDIO LEVEL CONTROL

When using the CHTO-02 with a radio that has a high audio pre-out voltage, usually greater than 2 volts, the audio signal may become distorted.

**To resolve this follow these steps:**

1. Locate the potentiometer on the module. (See Diagram 1)
2. Taking a small flat headed screwdriver, turn the potentiometer counter-clockwise to lower the input level going to the factory amplifier.

