



DD2001

Installation Guide

Ford Mustang

2010 – 2014 Base Model Sound System

DD-MST-004

RAXIOM

Made exclusively by Insane Audio

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A. Intro and Support

Congratulations! If you are reading this, then you are most likely about to install Insane Audio's super awesome DD2001 in your vehicle.

This install kit has been made by Insane Audio exclusively for Raxiom to allow a smooth install of the DD2001 in your Mustang. This install guide will assist you and give you some helpful hints and tips. For any installation specific issues or questions please contact Support@Raxiom.com or by calling: 1-877-887-1105

For additional assistance using your DD2001, feel free to hit us up at www.insaneaudio.com/support All Insane Audio customers get lifetime technical support and a company that stands behind everything we build 100%. The address above is the best way to reach us.

PLEASE USE YOUR NEW DD2001 RESPONSIBLY. Never attempt to operate the unit or view videos while driving. When in doubt, pull over first then do what you need to do. While driving, always keep both hands on the wheel and your eyes on the road!

Once you get your DD2001 installed, you'll definitely want to check out our Quick Start Guide. That can also be found at www.insaneaudio.com/support

You'll also want to check out our online user forum at <https://insaneaudio.com/forum> It's a great place to learn more about the awesomeness in your dash that is Insane Audio, share ideas with other users and join the Insane Audio community!

Of course, you can always find additional information and documentation on our website at www.insaneaudio.com

Enjoy your new DD2001 and the journey ahead!

B. Safety Precautions

- **IMPORTANT:** Disconnect the negative battery terminal before beginning this installation.
- While this kit contains everything you need for installation, we highly recommend consulting a professional installer for replacing the head unit of your particular vehicle.

C. In the Box

This installation guide assumes you have both Insane Audio's DD2001 (part number I/E DD2001) and the installation kit for your particular vehicle (in this case, part number DD-MST-004).

- Included with Insane Audio's DD2001 is the head unit itself along with an accessory pack
- Accessory pack components
 - A. External microphone
 - B. Wi-Fi antenna
 - C. USB cable
 - D. iPod cable
 - E. GPS antenna
 - F. OBD2 adapter
 - G. 8 Philips screws (not shown)
 - H. RCA pigtail/harness (**Note:** this part is only used for backup camera or aftermarket component applications (speakers, amps, subwoofer)).
- Insane Audio DD2001 Install Kit DD-MST-004
 - I. Main wiring harness
 - J. AM/FM antenna adapter
 - K. Dash kit (pictured on next page)

A.



B.



C.



F.



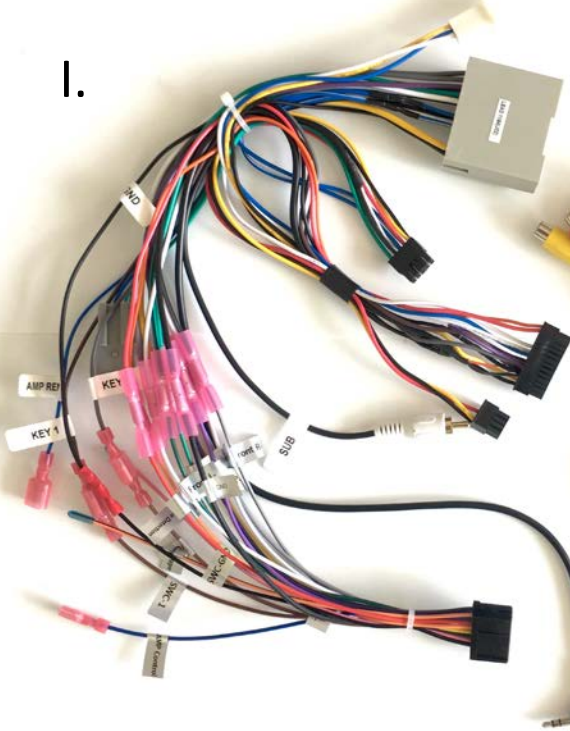
E.



D.



I.



H.



J.



D. Attachments

Dash Kit

The dash kit housing and brackets of the dash kit connect to the DD2001 for a perfect vehicle specific fitment. The main panel of the dash kit provides a factory look and fit and includes a touchscreen for climate and convenience controls.

Microphone

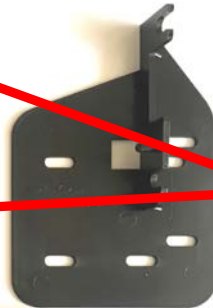
Your DD2001 comes with a built-in microphone, but we also include a high-quality, external mic that may provide better audio quality. A good place for the mic is directly on the steering column as far away from your gauge cluster as possible. Try to place it away from windows, air vents, or speakers to reduce background noise and feedback. The mic plugs into the 3.5mm jack labeled “MIC” on the back of the DD2001.

iPod Cable

It's a good idea to run the iPod cable and USB cable to the glovebox for easy access.

GPS

Place the magnetic GPS antenna on top of the head unit.



Dash kit main panel and interface

Dash kit brackets



iPod cable: run to glove box with provided cable

GPS antenna: place on top of unit

Wi-Fi antenna

AM/FM antenna

Microphone 3.5mm jack

RCA pigtail

Main wiring harness

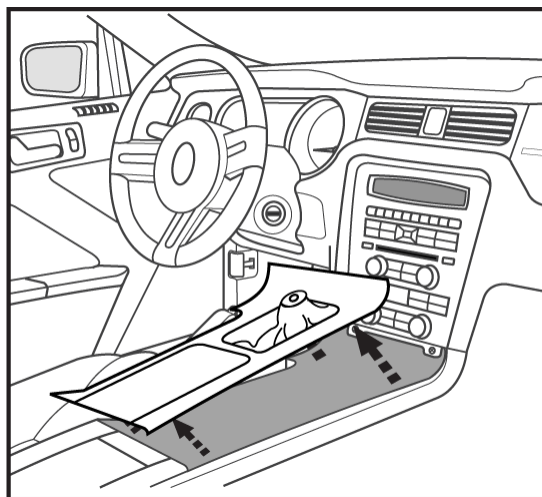
USB ports: run USB cable to glove box

E. Tools You Will Need

- Panel removal tool or butter knife (be careful not to scratch the dash if using butter knife)
- Phillips screwdriver
- 9/32" socket wrench
- Drill with 1" bit (optional, for running cables to glovebox)

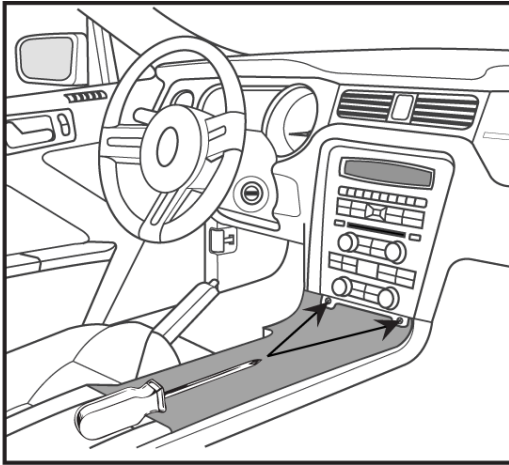
F. DISSASSEMBLE THE DASH

1. **IMPORTANT:** Disconnect the negative battery terminal before beginning this installation.
2. Unclip and remove the trim panel surrounding the shifter including the cup holders. **(Figure A)**

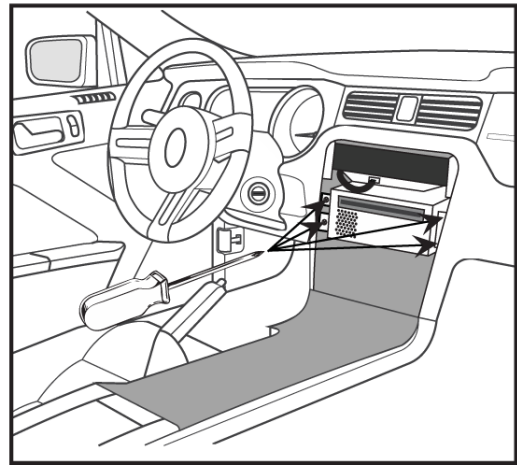


(Figure A)

3. Remove the (2) 9/32" screws from the bottom of the radio/climate control panel, and then unclip and remove the panel. **(Figure B)**
4. Remove the (4) Phillips screws securing the radio chassis, and then remove. **(Figure C)**



(Figure B)



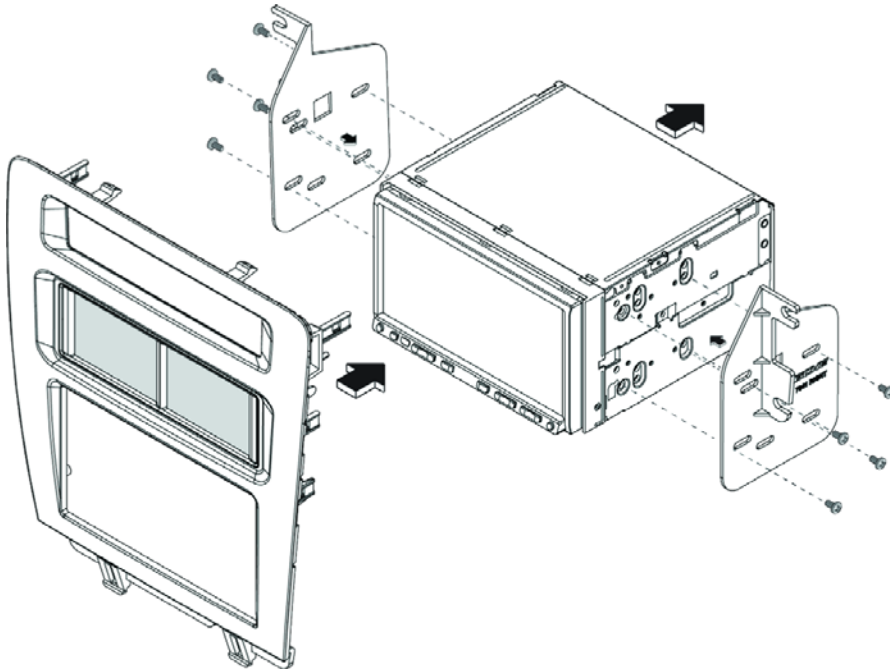
(Figure C)

G. Run The Cables

1. Run the USB cable and iPod cable supplied with your Insane Audio unit to your glove box. Drill a hole in the side or rear of your glove box and run the USB and iPod cables through the rear of the radio cavity and into the glove box.
2. Run the external microphone cable from the mic placement on the steering column, to the rear of the radio cavity.

H. Install the Head Unit

1. Mount the left and right brackets to the sides of the DD2001 using the screws supplied as shown below. **(Figure A)**



(Figure A)

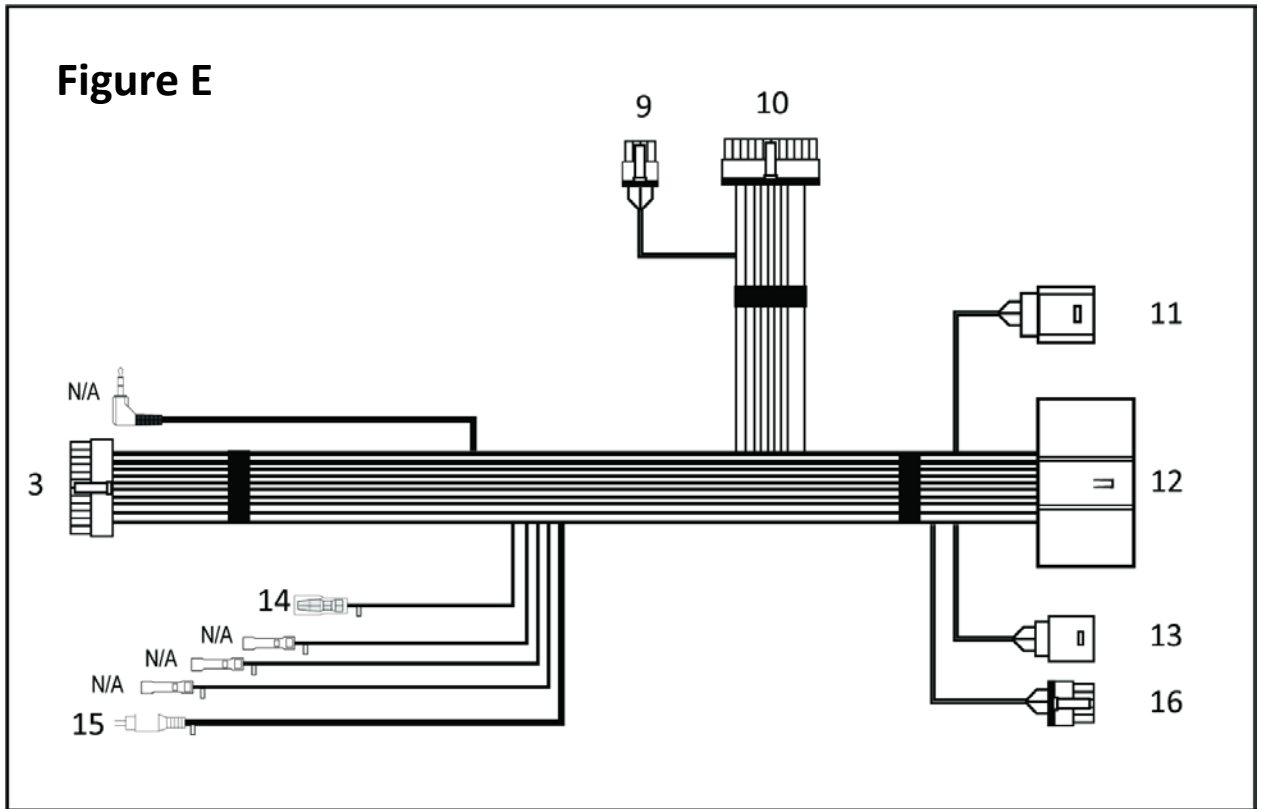
2. Securely screw the GPS antenna cable into the port labeled “GPS” on the back of the unit and mount the magnetic GPS module on top of the unit.
3. Securely screw the Wi-Fi antenna into the port labeled “Wi-Fi” on the back of the unit, and angle out of the way.

Note: Refer to page 6 for photo of head unit ports

3. Plug the main wiring harness plug into the back of the head unit. Make sure this plug is firmly seated.
4. Plug the RCA pigtail plug into the back of the head unit.
5. Plug in the external microphone into the 3.5mm port labeled "MIC".
6. Plug in the USB cable that you ran to the glove box into a USB port on the back of the unit.
7. Plug the iPod cable that you ran to the glove box into the iPod cable on the back of the unit.
8. Plug the factory antenna into AM/FM antenna adapter and the antenna adapter into the back of the unit.
9. Connect the 8-way connector to the port on the back of the dash kit interface.
10. Connect the 24-way connector to the port on the back of the dash kit interface.
11. Disregard, this plug is not used.
12. Connect the 24-way Ford Connector to vehicle harness.
13. Connect the 4-way Ford Connector to Mustang climate control harness.
14. Disregard, this plug is not used.
15. Disregard, this plug is not used.
16. Disregard, this plug is not used.
17. All plugs labeled N/A are also no used.

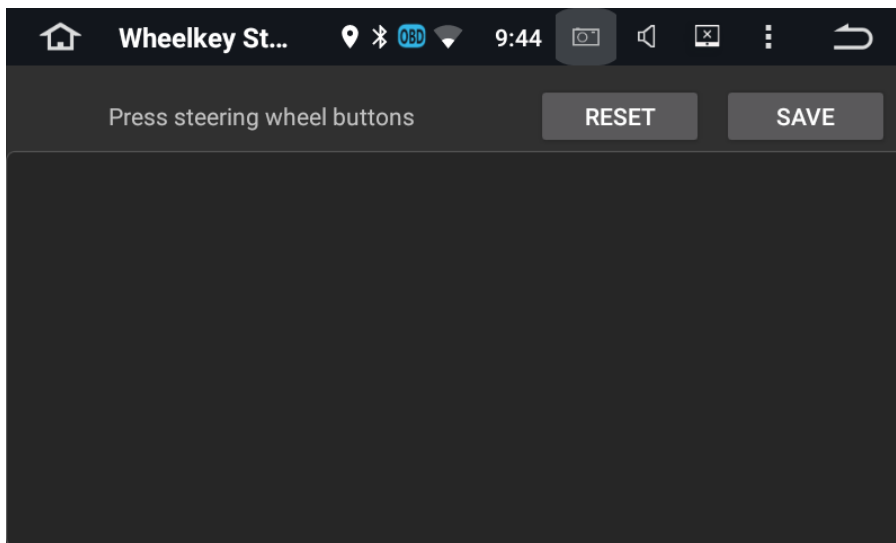
Note: Refer to page 11 for plug diagram

Plug Wiring Diagram + Photo



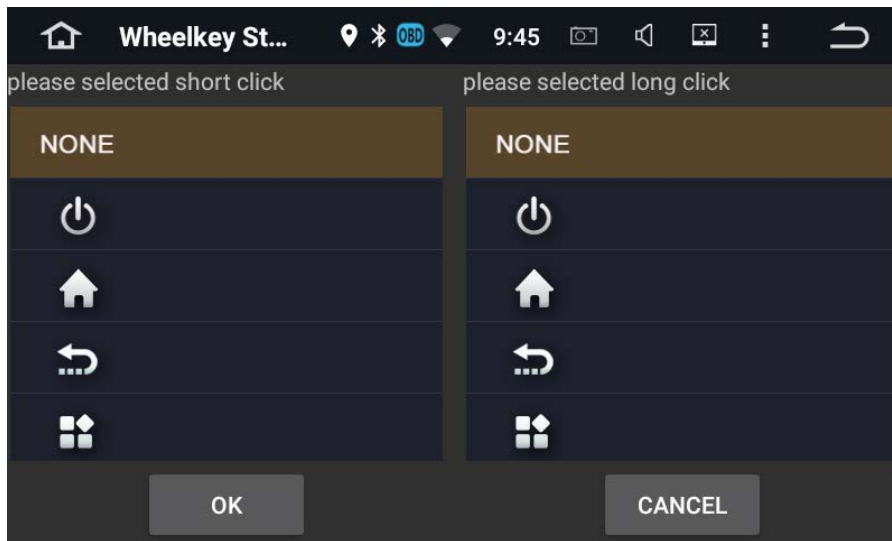
I. Map Steering Wheel controls

- First, change the radio type to “Pioneer” by pressing **Menu** on the right side scosche screen. Then press **ITC Settings > Radio Type > Pioneer**.
- Next, open the “Wheel KeyStudy” app on the DD2001, by tapping “Apps” on the home screen and then swiping to the left, then tap the “Wheel KeyStudy” app icon.
- The app will open to the screen below. (Figure A) Start by tapping “Reset” and then “Save.”
- Reopen the app.
- Next, press the volume up button on your steering wheel.

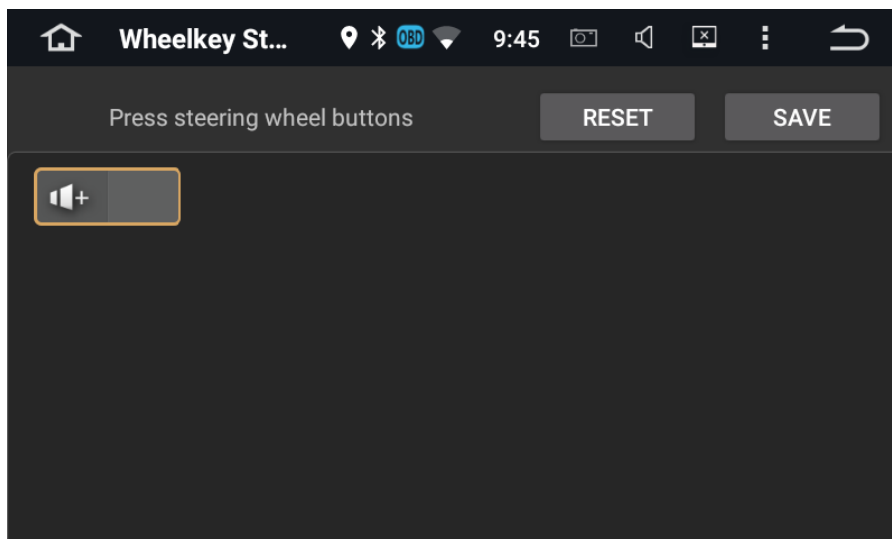


(Figure A)

- Scroll down and tap the volume up icon from the “please select short click” menu on the head unit. (Figure B)
- **Note:** You may also assign a long click function if desired.
- Tap “OK”
- An icon for the button you just programmed will appear on the screen. (Figure C)

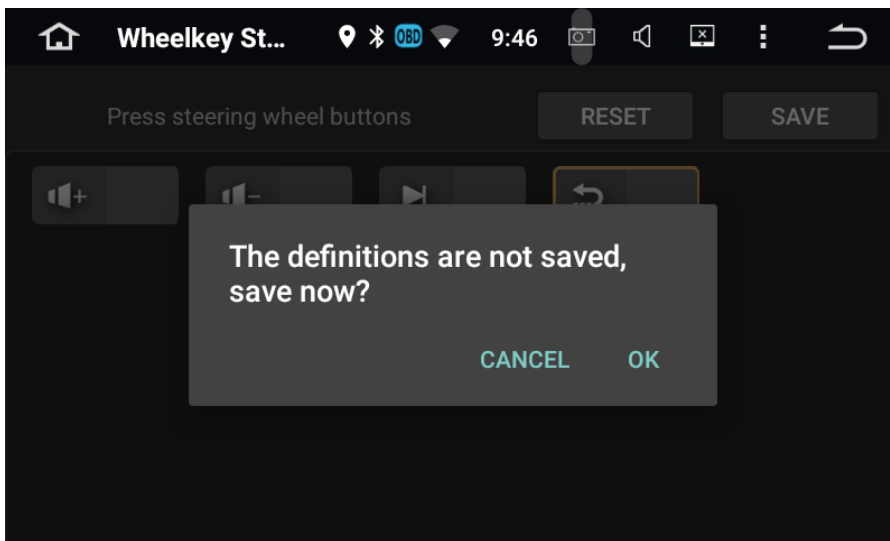


(Figure B)



(Figure C)

- Repeat these steps for the remaining steering wheel controls.
- **Note:** you can assign any function you would like to any steering wheel button.
- When you are finished assigning functions to the steering wheel controls, tap "Save"
- Tap "OK" on the dialogue box that appears (Figure D)
- Tap the home button,
- Now test the buttons on your steering wheel to make sure they are functioning as expected.



(Figure D)

J. TEST THE HEAD UNIT

- Make sure all cables and wires are securely connected.
- Start the vehicle.
- Confirm both the DD2001 and climate control touchscreen are both working properly.

K. REASSEMBLE THE DASH

- After confirming the unit is working satisfactorily, tie wrap loose wires together and mount your new Insane Audio head unit by replacing the (4) Phillips screws securing the unit to the vehicle dash.
- Mount the main dash panel to the dash over the head unit.
- Replace the trim panel surrounding the shifter.

L. Tips and Tricks

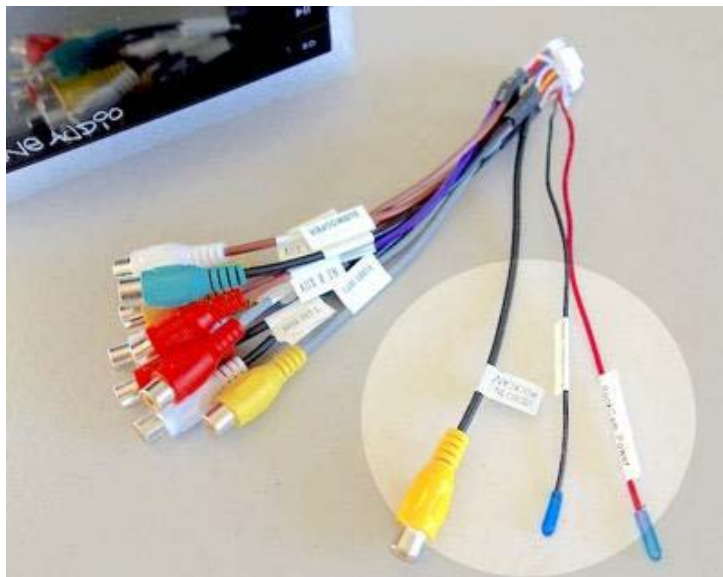
- Your new DD2001 is packed with features... so much so that the best way to fully get familiar with it is to just go ahead and start using it!
- Be sure to check out our online user forum. It's a great place to share technical information and creative uses of your DD2001. It's entirely free and here as a resource for our customers! insaneaudio.com/forum
- Just about everything is customizable on your DD2001, even the physical buttons. You can change the icons, add widgets, change the background, even change the functions of the physical buttons etc. Your DD2001 is already pre-loaded with a bunch of cool widgets that can be found by swiping to the far right of the App Drawer (accessed via the six squares at the Home Screen)
- There are quite a few safety features that come pre-enabled on the DD2001 such as the ability to watch video while driving. This can all be turned off through the settings icon under "Driving safety". We don't recommend this, though. PLEASE BE RESPONSIBLE AND ALWAYS KEEP YOUR EYES ON THE ROAD AND BOTH HANDS ON THE WHEEL!
- Insane NavEngine can be accessed both via the icon or by pressing the NAVI button on the face of your DD2001. This will get you where you're going both on and off the road.

Enjoy the Ride!

- Your DD2001 comes with a microSD card slot. Load up a data card with movies or music and access the content via the VIDEO or MUSIC icons on your DD2001
- Your DD2001 sports a low-energy Bluetooth 4.0 and Wi-Fi chipset. In order to get a consistent connection with your Bluetooth devices, we recommend leaving on Wi-Fi.
- Your DD2001 came with an OBD Bluetooth adapter and the Torque application already installed. Please refer to the Quick Start Guide for instructions on how to set this up for the first time.
- Feel free to get creative! Customize it, install apps, and make it yours!
- The Quick Start Guide is already loaded on the home screen of your DD2001, but it can also be found at insaneaudio.com/support
- You can always find out more information or view user manuals online at insaneaudio.com/support

M. Installing Cameras

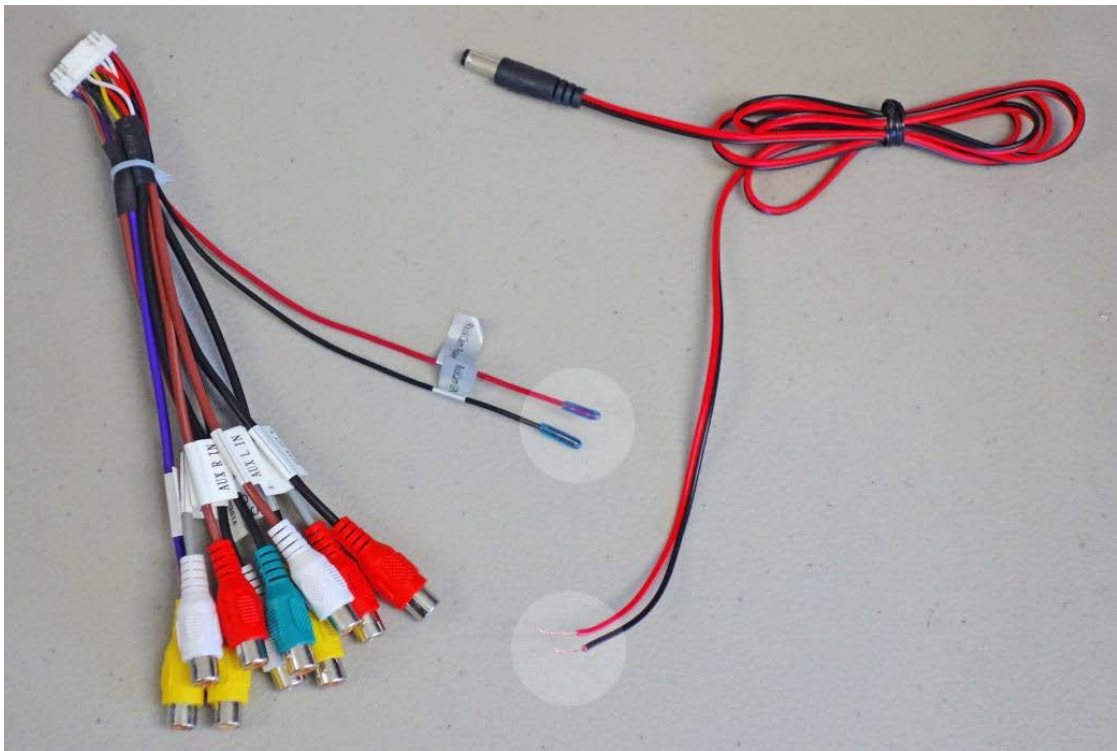
- Insane Audio's DD2001 is designed to support a backup camera as well as a front facing camera. You can use any camera that provides an RCA video signal.
- Raxiom has a few camera offerings that we highly recommend, as they have been designed and tested to work specifically with our head units. You can find cameras as well as our other products at www.americanmuscle.com
- In addition, your Insane Audio head unit will also support things like wirelessly viewing and controlling a *GoPro* by downloading the appropriate app.
- This section will cover the physical installation of backup and front facing cameras.



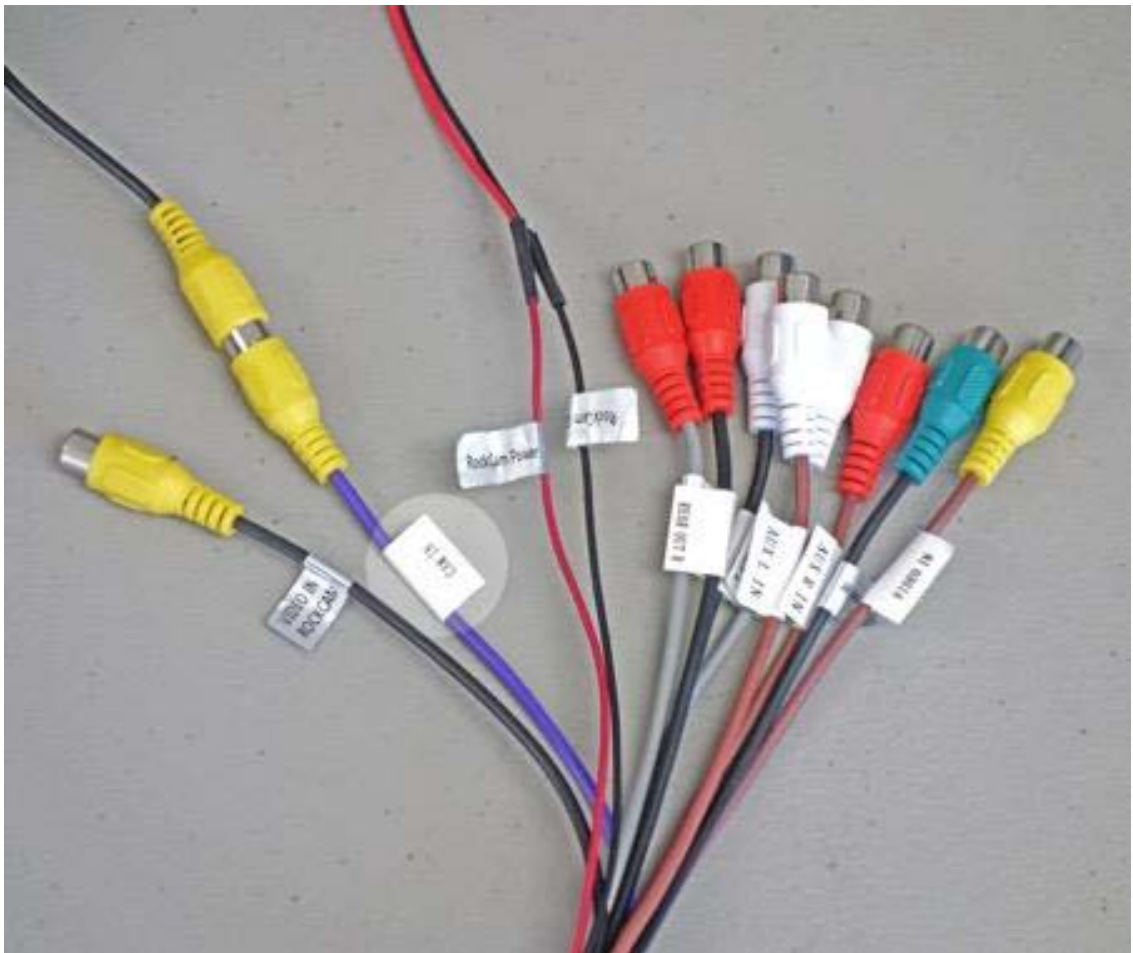
- The A/V pigtail offers two wires labeled “RockCam Power” and “RockCam GND” that automatically provide +12V whenever you reverse the vehicle or open the *RockCam* app.
- We recommend you use these wires to power your front camera, your backup camera or both if you’ve got ‘em!
- Before making any connections, unplug the A/V pigtail from the head unit and make sure that everything is powered off.
- Note that Insane Audio’s IACAM1/IACAM2 manuals might provide different steps for installation that are geared towards other Insane Audio head units. Those steps will work, but since you’re the proud owner of Insane Audio’s new DD2001, you should follow the steps in this guide to get the most out of your new DD2001.
- To turn on and off Reverse Guideline, press the programming button once on the RCA cable of your IA CAM1 one.
- To change the orientation of the camera image, press the button twice quickly, wait 1 second, then press the button until the desired orientation is displayed.
- For a video on programming the IA CAM1, search insaneaudio.com/support/

Backup Camera

- For a backup camera, you will need to run the RockCam wires from the front of your Jeep all the way to your backup camera. Insane Audio's IACAM1 and IACAM2 include a DC power cable that you will wire directly to the red and black RockCam terminals. You will have to strip some insulation from the RockCam wires.
- Protect the head unit by ensuring that the electrical connection is safely insulated.
- Note that if you are not using cameras, then you should keep the RockCam power terminals unexposed and out of the way.

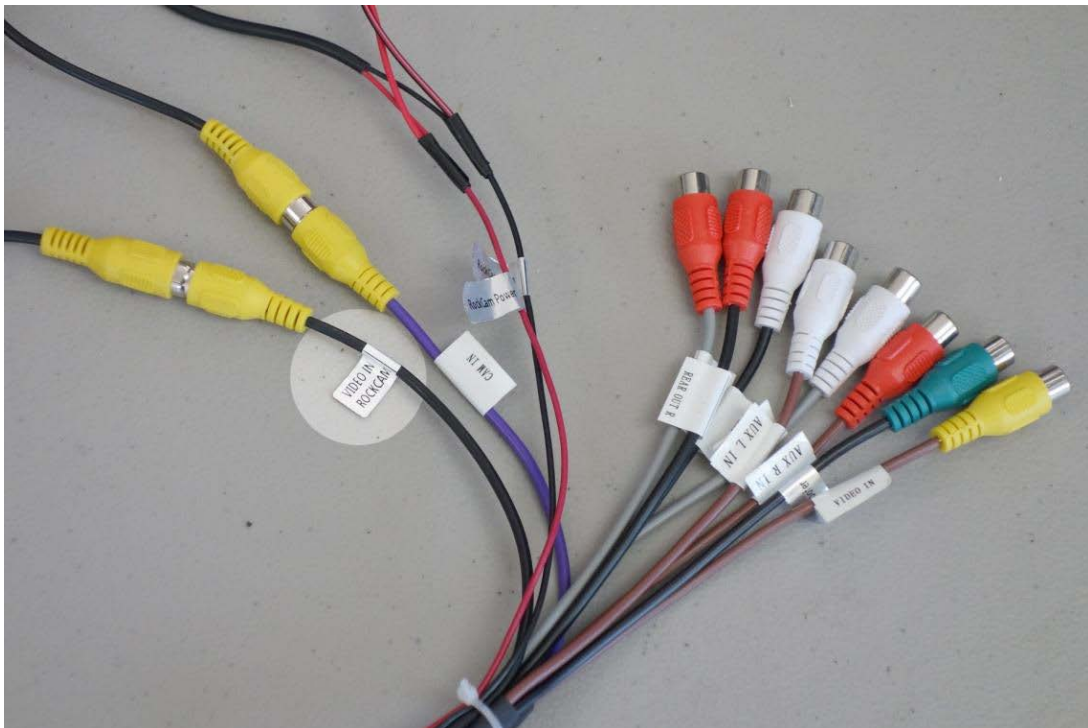


- The backup camera feed will connect to the “CAM IN” video input female RCA terminal. Insane Audio’s cameras include an RCA extension cable that you can run from the head unit to the rear of the vehicle.
- Next, you must connect the “Reverse Trigger” wire on the main harness to a wire in your dash that provides +12V when the vehicle is in reverse. If no such signal is present in your dash, you can extend a wire to your reverse light circuit.



Front Camera

- Installation of a front facing camera with Insane Audio's DD2001 is fairly simple. Connect the camera's power lines to the red and black RockCam terminals. Remember that these power terminals can support a front camera, a backup camera, or both cameras simultaneously.
- Finally feed the IACAM2 video signal into the "RockCam Video In" RCA port.
- At this point, you may plug the A/V pigtail back into the head unit and power everything back on.



- Check the installation by opening the *RockCam* app.
- If you see a “No signal” warning, ensure that the front video feed is connected to “RockCam Video In” RCA port and the power wires are properly connected.
- Note that with the RockCam app, you can even view any installed backup camera, too. Tap on the upper left camera icon to switch between front and rear views whenever you’re parked or moving forward.



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TECHNOLOGY