

## PRODUCT OVERVIEW:

The AMP-CH5 allows for an improvement in audio quality in vehicles equipped with data-bus controlled amplified sound systems by upgrading to an aftermarket multi-channel amplifier while retaining the factory radio. The AMP-CH5 provides balance, fader, bass, mid and treble frequency adjustments as well as a non-fading subwoofer output for optimum sound staging.

## PRODUCT FEATURES:

- Retains U-Connect and navigation prompts.
- Retains Bluetooth handsfree mode.
- Allows adjustments for Balancing/Fading, Bass, Mid and Treble frequencies.
- Retains OEM radio EQ controls.
- Adjustable bass frequency and level. Includes an under dash mount encoder/bass knob.
- Provides 4 channel Front/Rear outputs plus non-fading subwoofer output.
- Remote output to turn on aftermarket amplifier.
- Includes an OEM amplifier Bypass harness. No cutting of factory wires.

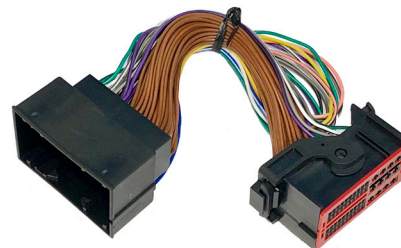
## NOTE:

**Audio from the factory backup sensors is not retained.**

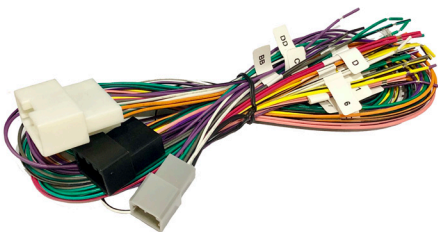
## PARTS INCLUDED:



AMP-CH5 Module



AMP-CH5 Harness



OEM Amp Bypass Harness



AMP-CH5 Encoder/Bass Knob



### INSTALLATION INSTRUCTIONS:



1. Carefully remove the trim bezel around the radio and instrument cluster. Use a plastic pry tool and go all the way around the trim to pop up the clips.



2. Remove the 4 screws holding the screen.



3. Unplug the 52-pin connector behind the screen.



4. Plug the 52-pin connector to the mating connector on the AMP-CH5 T-harness.



5. Plug the other end of the AMP-CH5 T-harness to the OEM screen.

6. Find a suitable location to mount the aftermarket amplifier(s). You will need to run the following to the aftermarket amplifier:

- 1) Power wires from the battery
- 2) An amp turn-on wire and RCA cables from the AMP-CH5 module.
- 3) Speaker wires from the OEM amplifier location. ***OEM amplifier location can vary by vehicle.*** On sedans and trucks, it is usually

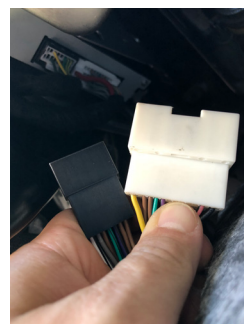
located on the left bottom side of the dashboard. On SUVs in the cargo area. Make sure you have enough length wires and RCA cables.



7. On a 2017 Dodge Charger, the OEM amplifier is at the left bottom side of the dashboard. Remove the panel above the pedals by removing the panel clips.



8. Locate the OEM amplifier and unplug the connectors.



9. Connect the speakers wires from the aftermarket amplifier to the Amp Bypass harness included in the kit. Mate the connectors into the OEM amplifier harness connectors.





10. Plug the RCAs to the AMP-CH5 module.



11. Plug the 20-pin AMP-CH5 T-harness connector and the RJ11 encoder/bass knob connector to the AMP-CH5 module.



12. Complete the connections on the aftermarket amplifier and mount the amplifier.



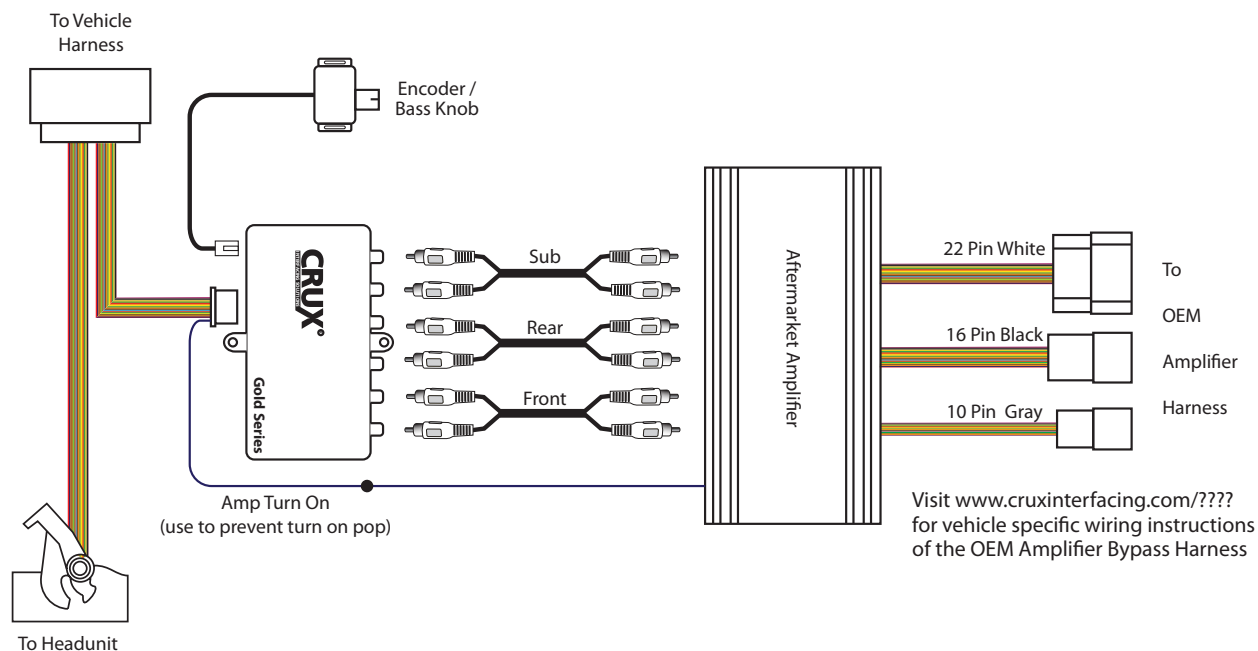
13. Mount the encoder/bass knob to the desired location.

14. Encoder/Bass Knob Functions:
- Press to turn ON/OFF Loudness function
  - Turn to adjust subwoofer level
  - Press and hold to enter programming mode

15. For vehicle specific wiring connections of the OEM Amp Bypass Harness, please visit <https://www.cruxinterfacing.com/listings/amp-ch5/> or scan the QR code:








## INSTALLATION DIAGRAM:























## PROGRAMMING:

The AMP-CH5 allows adjustments to the following:

- The center frequency for Bass, Mid and Treble has 4 frequencies to select.
  - The center frequency for Loudness has 3 frequencies to select. Turning On Loudness will give a 20dB boost for that selected frequency.
  - The subwoofer low pass filter has 5 frequencies to select.
1. To start programming the adjustable settings, press and hold the subwoofer knob for 5 seconds until both LED1 and LED2 turns ON to Blue. Release the knob. Both LED1 and LED2 LED's will turn OFF.
  2. Turn the knob until the LED1 color is selected for the Tone Selection to be adjusted. Press the knob once. LED2 will turn ON to indicate it is in tone adjustment mode.
  3. Turn the knob until the LED2 color is selected for the desired frequency. Press the knob to select the frequency. LED2 will turn OFF to indicate it is back in Tone selection mode.
  4. Repeat Step 2-3 to adjust other tones and frequencies.
  5. To end programming, press and hold the subwoofer knob for 5 seconds until both Blue LED's start flashing rapidly.

LED 1 Indicator					
Tone Selection ->	Bass	Midrange	Treble	Loudness	Subwoofer
				Blinks 2x Second 	Blinks 2x Second 

LED 2 Indicator							
TONE	Frequency Selection						
	Default values				Blinks 2x Second	Blinks 2x Second	
Bass Center Frequency	60Hz 	80Hz 	100Hz 	200Hz 			
Midrange Center Frequency	500Hz 	1kHz 	1.5kHz 	2.5kHz 			
Treble Center Frequency	7.5kHz 	10kHz 	12.5kHz 	15kHz 			
Loudness Center frequency	250Hz 	400Hz 	800Hz 				
Subwoofer Low pass frequency	Full Range 	55Hz 	85Hz 	120Hz 	160Hz 		

## VEHICLE APPLICATIONS:

### CHRYSLER

2015-2017 200 ALL TRIM LEVELS  
2015-2017 300 ALL TRIM LEVELS

### JEEP

2015-2017 CHEROKEE ALL TRIM LEVELS  
2014-2017 GRAND CHEROKEE ALL TRIM LEVELS

### DODGE

2015-2017 CHALLENGER ALL TRIM LEVELS  
2015-2017 CHARGER ALL TRIM LEVELS  
2014-2017 DURANGO ALL TRIM LEVELS

### RAM

2013-2017 RAM TRUCK ALL TRIM LEVELS

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