

# Chevy Silverado 2019+ Non-Bose Amp and Speaker Installation

**NOTE: I am not a professional nor am I recommending any product mentioned in this document. This document is for informational purposes only and merely details my experience installing an amp, upgraded speakers, and a subwoofer in my 2021 Chevy Trail Boss LT Crew Cab. USE THIS DOCUMENT AT YOUR OWN RISK – THE AUTHOR IS NOT RESPONSIBLE FOR YOU BREAKING ANYTHING IN YOUR VEHICLE NOR ANY VOIDED WARRANTY**

I have a 2021 Chevy Trail Boss with no Bose and no amp. I just traded my 2019 Trail Boss in and it had a Bose system that I was relatively satisfied with. The bare bones system in my '21 sounded terrible so I called Crutchfield and got to work. I ordered new speakers (2 dash, 2 front door 6x9s, and two rear 6 ¾"), an amp, and some dynamat. With that order included an amp install kit, speaker mounting brackets, factory speaker harness adapters and Crutchfield's disassembly instructions from their research team which tells you how to get at all of the speakers. I'm not going to include that document as I'm not sure I'm allowed to share it.

I did not want to cut into my factory wiring so I set about trying to find a T-harness. Crutchfield doesn't have one and I only found one company that made them which is LLJ Customs (<https://lljcustoms.com/>), but that would take a long time and I was ready to get started. So I decided to make my own harness. I also watched their video of installing an amp in a 2019 Trail Boss which will give you the overall idea of what I'm up to:

[https://www.youtube.com/watch?v=KPB\\_cbnYyMw](https://www.youtube.com/watch?v=KPB_cbnYyMw)

I purchased this harness that is supposed to be used with an Axxess interface: AXEXH-GMLN31 - GM Interface Extension Harness 2019-Up. Just google the part number and you will be able to find folks selling it.

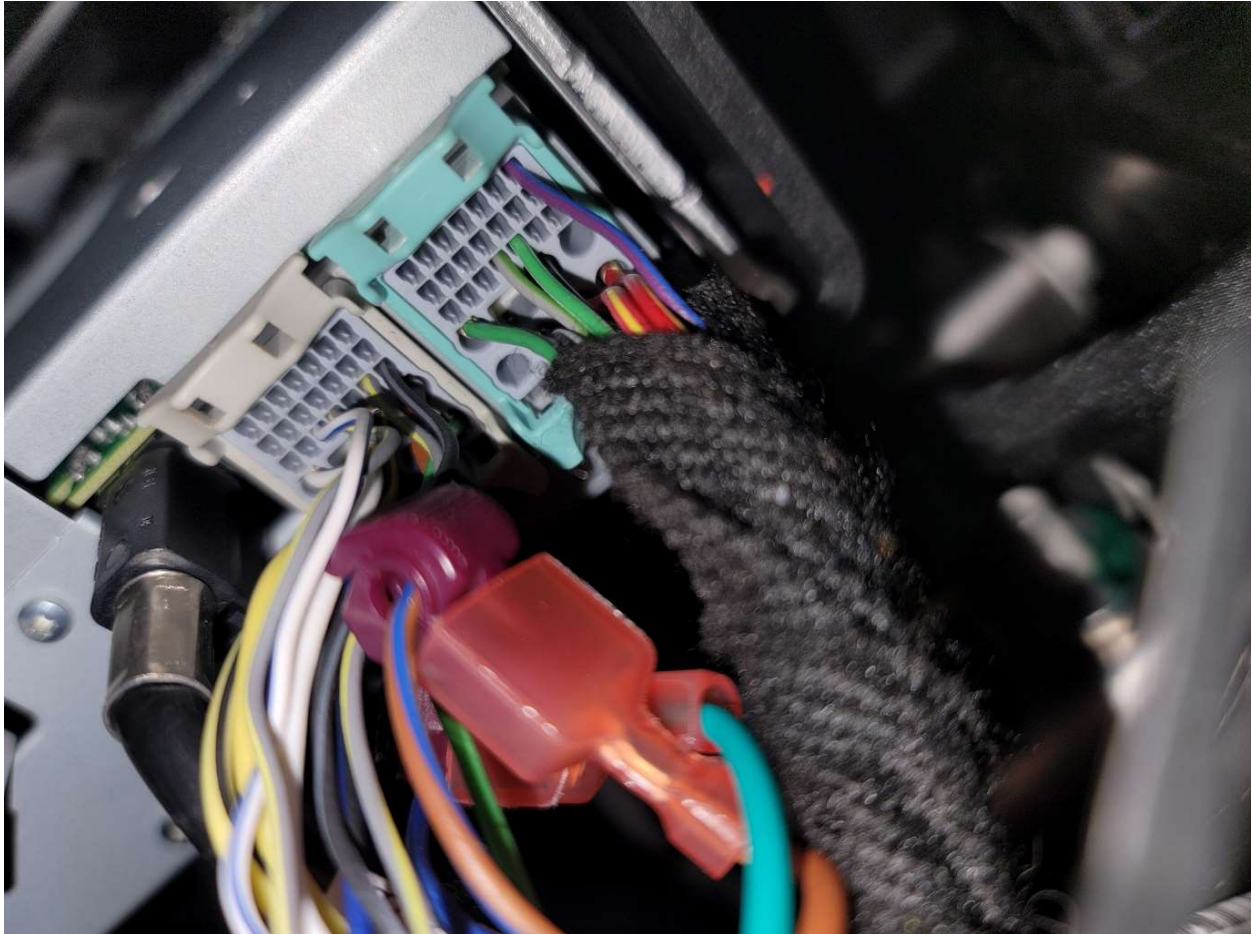
I also purchased the following materials from Amazon:

- Audiopipe 40' Feet Speed Wire 9 Conductor 18 Gauge Car Audio Speaker Remote Wire
- Lollipop Speaker Wire Cable to Audio Male RCA Connector Adapter Jack Plug 10pcs/Set

I dug up a ton of information on the factory pinout/wiring and cross checked the GMLN31 to ensure the wiring was correct. It was correct and they even labeled the speaker wires. Furthermore, the color coding matched the 9 wire I purchased.

## Chevy Silverado 2019+ Non-Bose Wiring Harness

This is the “Audio Module (tuner)” and the two harnesses that plug into it. The two taps you see are from the kicker 10” sub I installed. This is the sub you can purchase from GM. After all was said and done, I ended up removing them and placing them in a different spot. The RIGHT way to do it would be to Y the wires in the back near the amp I believe.



Here is a pinout listing for non-Bose systems I found:

### Non-Bose™ system tuner/amplifier wiring

Harness 1 of 2

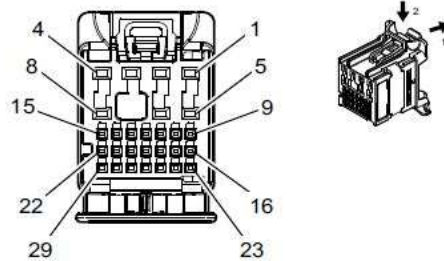
PIN #	FUNCTION/POLARITY	COLOR
1	Function unknown at this time.	blue/red
2	Chassis ground	black/white
3	Constant 12 volts	red/yellow
4	Constant 12 volts	red/yellow
5	Left rear door speaker (-)	lt. green/black
6		
7	Chassis ground	white/black
8	Function unknown at this time.	black
9	Function unknown at this time.	blue/gray
10	Function unknown at this time.	gray/violet
11		
12	Function unknown at this time.	white
13	Function unknown at this time.	lt. green/white
14		
15	Function unknown at this time.	gray/blue
16-17		
18	Function unknown at this time.	brown/gray
19	Function unknown at this time.	blue
20	Function unknown at this time.	violet/white
21	Function unknown at this time.	brown/white
22	Function unknown at this time.	violet/blue

Harness 2 of 2

PIN #	FUNCTION/POLARITY	COLOR
1	Right rear door speaker (-)	blue/black
2	Right front door/dash speakers (+)	yellow
3	Left front door/dash speakers (+)	blue
4	Left rear door speaker (+)	lt. green
5	Right rear door speaker (+)	white
6		
7	Right front door/dash speakers (-)	yellow/black
8	Left front door/dash speakers (-)	brown/blue
9-10		
11	Function unknown at this time.	white/blue
12	Function unknown at this time.	gray/yellow
13		
14	Function unknown at this time.	blue
15	Function unknown at this time.	brown/black
16-29		

This is the pinout picture I used to cross check the Axxess harness with the factory harness.

**A11 Radio X2 (IOR)**



4584398

**Connector Part Information**

Harness Type: Instrument Panel  
 OEM Connector: 33303654  
 Service Connector: 13506123  
 Description: 29-Way F 0.5 NANO, 1.2 MCON Series Sealed (GY)

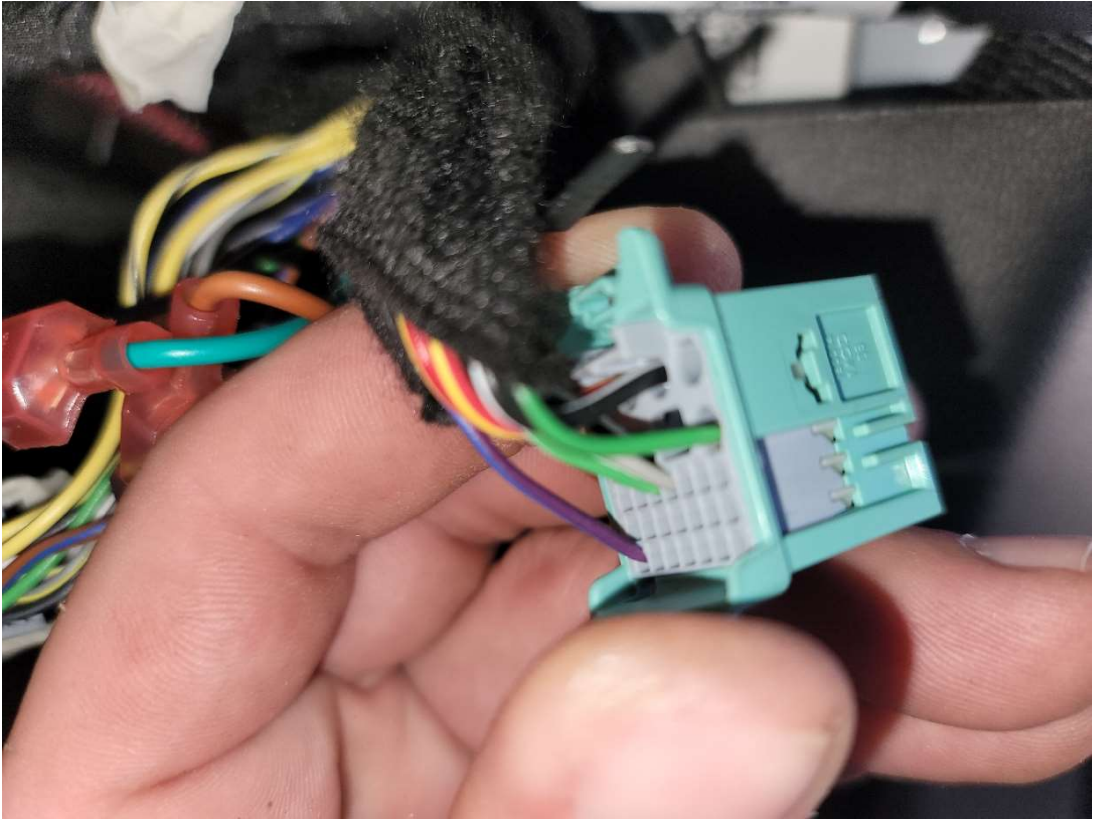
**Terminal Part Information**

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	19300649	J-35616-16 (LT GN)	J-38125-215A	Not Available	Not Available	Not Available	Not Available
II	19354361	EL-35616-58 (BK)	J-38125-215A	Not Available	Not Available	Not Available	Not Available

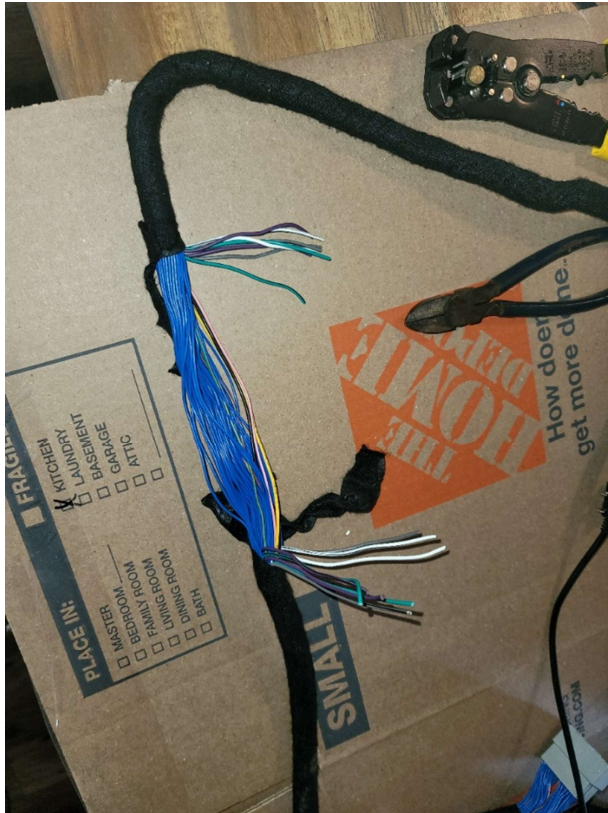
**A11 Radio X2 (IOR)**

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5	GN	199	Left Rear Speaker Control (+)	I	—
2	0.75	BU	201	Left Front Speaker Control (+) 1	I	—
3	0.75	YE	200	Right Front Speaker Control (+) 1	I	—
4	0.5	BU/BK	115	Right Rear Speaker Signal (-)	I	—
5	0.75	BN/BU	118	Left Front Speaker Signal (-) 1	I	—
6	0.75	YE/BK	117	Right Front Speaker Signal (-) 1	I	—
7	—	—	—	Not Occupied	—	—
8	0.5	WH	46	Right Rear Speaker Control (+)	I	—
9	0.35	BK/GY	5152	Voice Recognition Audio Low Reference	II	IOR+UE1
	0.35	BK/BN	654	Cellular Telephone Microphone Low Reference	II	IOR-UE1
10	0.35	GY/YE	5149	Voice Recognition Audio Signal	II	IOR+UE1
	0.35	BU	655	Cellular Telephone Microphone Signal	II	IOR-UE1
11	—	—	—	Not Occupied	—	—
12	0.35	GY/YE	6972	Camera Signal 2 +	II	—
13	0.35	WH/BU	6973	Camera Signal 2	II	—
14 - 29	—	—	—	Not Occupied	—	—

Pics of my factory harnesses which are tan and teal:



This is the Axxess harness with the protective cloth removed and the speaker wires cut in the middle:



To make the harness, you want to cut your 9 wire basically in half (or measure and cut to fit). Connect one piece of 9 wire to the harness speaker wires that will go from the tuner to the amp, and then another piece that will go from the amp back into the system. The wires **TO** the amp will come from the **male connector side** (from the tuner) of the Axxess harness and the wires **FROM** the amp back to the speakers will connect to the **female connector side** (to the factory harness) of the Axxess harness. I left all of the other wires alone. Most aren't used on my vehicle, but I wasn't going to cut them and chance screwing something up.

The 9 wire includes the remote wire. Since the "remote-in" on my amp is on the output side of the amp, I cut the speaker wires down some and left the blue

remote wire longer. The remote wire can connect to this terminal using a spade connector:



The completed harness looks something like this:



I used the RCA adapters to allow me to do a loopback so I could test all of the connections. Once that worked, I just used butt connectors to connect everything up.

If I had a little more faith in what I was doing, I would have shortened everything and soldered it all before connecting it. Everything works and I'm not digging back into that truck...

I ran the 9 wire down the passenger side door channels all the way to the back, then under the carpet and behind the seat brackets per the instructions that come with the sub-woofer from GM.



