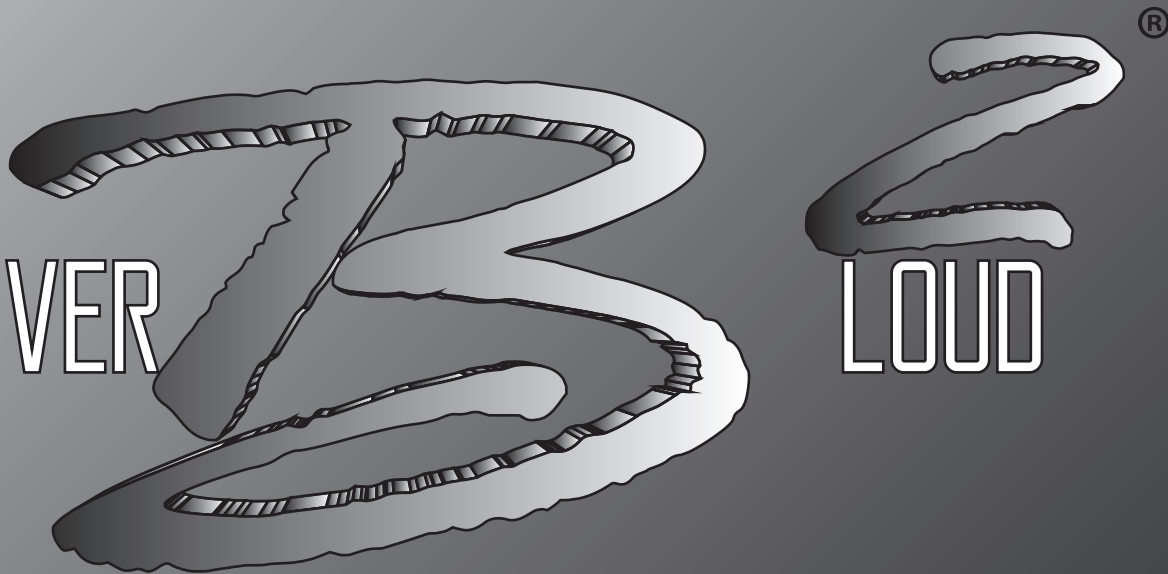




IT CAN NEVER



FL Tholo
USER MANUAL



#ITCANNEVERB2LOUD

INTRODUCTION

Since the beginning of this millennium, we've chased one feeling—the thrill of creating something that goes beyond expectations. That drive pushes us to challenge limits, rethink what's possible, and craft products that move people, not just power systems. Every choice we make carries intention. Every detail is shaped with passion. From the first idea to the final bolt, we build with heart, knowing that what we create becomes part of someone's experience, someone's identity. Our customers expect more than performance—they expect a connection. Power that resonates. Reliability they can trust. Sound that feels alive. We don't just build products. We create moments.

THE BACKGROUND

The B2 Audio "El Cholo" wasn't just designed — it was raised in the streets of the Southeast, shaped by the lowrider community and the culture that gave it life. This is a world built on history, craftsmanship, family, and pride — where every ride tells a story and every detail matters.

The community asked for something real — something that carried their voice, their style, their heart. So we created El Cholo: long, sleek, and low, a tribute to the art and tradition that has moved generations.

When it hits, you feel it — power that runs deep, reaching into the tens of kilowatts. This isn't just an amp. It's heritage, respect, and culture,

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AT THE HEART OF B2 AUDIO LIES A RELENTLESS PURSUIT OF EXCELLENCE. WE BELIEVE IN DOING THINGS DIFFERENTLY AND PUSHING THE BOUNDARIES OF WHAT'S POSSIBLE. OUR TALENTED TEAM OF AUDIOPHILES AND INDUSTRY ENTHUSIASTS IS UNITED BY A PASSION FOR DESIGNING THE BEST POSSIBLE PRODUCTS—PRODUCTS THAT ARE MORE THAN JUST “GOOD ENOUGH.” OUR UNWAVERING DEDICATION HAS ALLOWED US TO MAKE OUR MARK SINCE OUR FOUNDING IN 2008.

OUR JOURNEY HAS BEEN MARKED BY NUMEROUS MILESTONES AND ACCOLADES, REFLECTING OUR COMMITMENT TO PUSHING THE ENVELOPE AND SETTING NEW STANDARDS IN THE INDUSTRY. AS WE CONTINUE TO GROW AND EVOLVE, WE REMAIN DEDICATED TO OUR MISSION OF DELIVERING EXCEPTIONAL AUDIO PRODUCTS THAT INSPIRE AND DELIGHT.

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▪ **DESIGN SPECIFICATIONS**

MODEL:	<i>EL Cholo</i>
CIRCUIT CONFIGURATION:	HI-EF CLASS D
FREQUENCY RESPONSE:	10 HZ-20 KHZ
SIGNAL TO NOISE RATIO:	>90 DB
INPUT SENSITIVITY:	6 V-0.2 V
CROSSOVER CIRCUIT:	24 DB/OCT
LOW PASS CROSSOVER:	50 HZ-20 KHZ
HIGH PASS CROSSOVER:	10 HZ-2 KHZ
SUBSONIC CROSSOVER:	ADJUSTED BY THE HIGH PASS
BASS EQ:	30 HZ - 80 HZ / 0-12 DB
LEVEL CONTROL	
• WITH CLIP/VOLT/TEMP:	INCLUDED
POWER TERMINAL GAUGE:	3 X 0 GAUGE / 3 X 67 MM ²
FUSE RATING:	1000 A
DIMENSIONS METRIC:	640 X 245 X 63 MM
IMPERIAL:	25.19" X 9.65" X 2.48"
OPERATIONAL VOLTAGE:	9V - 17V

CONTINUOUS OUTPUT POWER (RMS) @ 14.4V <1% THD

4 OHM	2 OHM	1 OHM
3500 W* - 4000 W	7000 W* - 8000 W	12000 W* - 13500 W

DESCRIPTIONS OF SPECIFICATIONS

*THE LOWER NUMBER IS BASED ON AMP DYNO PERFORMANCE MEASURED AT 40 HZ, THE OTHER IS AUDIO PRECISION UP TO 1% THD. FULL OUTPUT POWER ACCORDING TO THE SPEC IS BASED ON A SUFFICIENT ELECTRICAL SUPPLY SYSTEM. IF YOUR SYSTEM IS INADEQUATE, THE EFFICIENCY OF THE AMPLIFIER DECREASES, HURTING THE PERFORMANCE!

OPERATION BELOW MINIMUM IMPEDANCE WILL STRESS THE AMPLIFIER & VOID THE WARRANTY. EXCESSIVE HEAT WILL OCCUR, CAUSING THE AMPLIFIER TO GO INTO THERMAL PROTECTION. THE CIRCUIT MAY SUSTAIN PERMANENT DAMAGE AND PROTECTION LIGHTS WON'T TURN OFF OR FLASH SEQUENTIALLY. OPERATIONAL VOLTAGE IS FROM 9V TO 17V

PROTECTION MAY ALSO BE CAUSED BY THE FOLLOWING

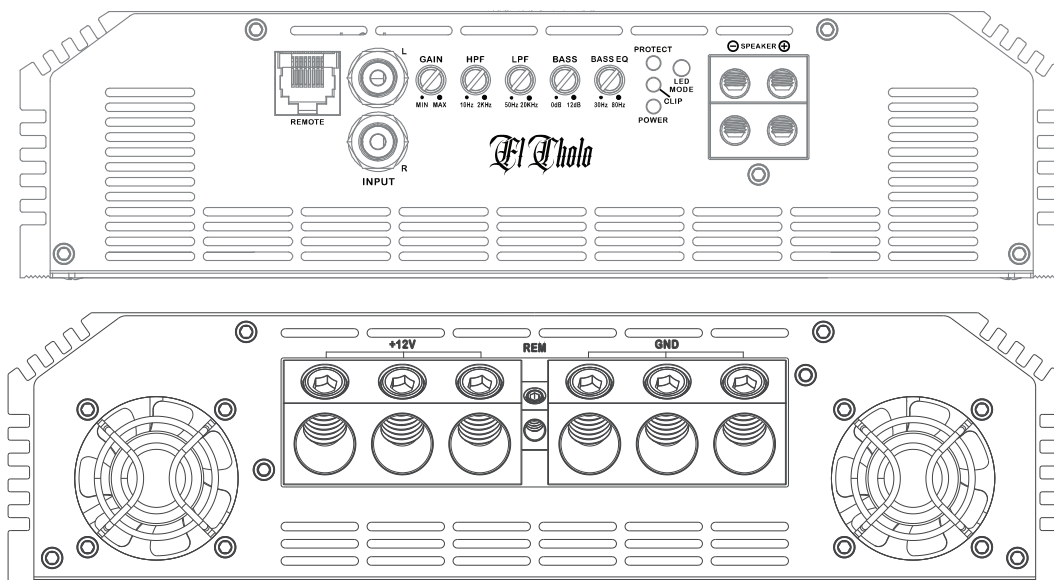
- INPUT VOLTAGE FROM HEADUNIT BEING TOO HIGH / LOW / POWER SUPPLY VOLTAGE TOO HIGH / LOW.
- SPEAKER OVERLOAD
- SHORT CIRCUIT

*BATTERY SUPPLY CHART BELOW TO SUPPORT THE OUTPUT POWER ACCORDING TO THE AMPLIFIER RATING.

<u>MINIMUM BATTERY REQUIREMENTS</u>	AGM	LITHIUM GC
EL CHOLO	700 AH / 10000 CCA	150 AH

THE LIST ABOVE DESCRIBES THE ADDITIONAL MINIMUM DEDICATED BATTERY SUPPLY FOR THE AMPLIFIERS. THE OEM BATTERY DOES NOT COUNT AS A PART OF IT.

PANEL LAYOUT



POWER & GROUND TERMINAL

0AWG positive to the left, 12v switched remote in the middle, 0AWG negative to the right. Use cables of the proper gauge and quality. All inputs must be used.

CLIP INDICATOR

The LED will light up if the signal is distorted. An occasional flashing LED is acceptable, a constant is NOT.

GAIN (6V~0.2V)

Adjusts signal input voltage from the input source to match the amplifiers input stage. 6V ~ 0.2V is the selected operational voltage. Voltages beyond may cause errors or damage the input section.

BPF (BAND PASS FILTER)

This allows for both the HPF and the LPF to be used at the same time. Signals passed through will be based on the position of HPF and LPF.

REMOTE

Connects to the level control and will display both voltage, temperature, clip and power on. Set your gains accordingly with the level control adjusted at the full position.

POWER & PROTECTION INDICATOR

Power LED, blue light shows correct operation, Protect LED, red light shows general malfunction, faulty connection or thermal protection.

BASS EQ & LEVEL EQ

Adjustable bass frequency & level in dB. Set your system properly. A good tuned system does not need a full 12 dB peak at all times.

HPF (HIGH PASS FILTER 10HZ~2KHZ, 24 DB/OCT)

Adjusts the cut off point for the high pass crossover, it can also be used as a subsonic crossover if set in the range of 10 Hz ~ 30 Hz.

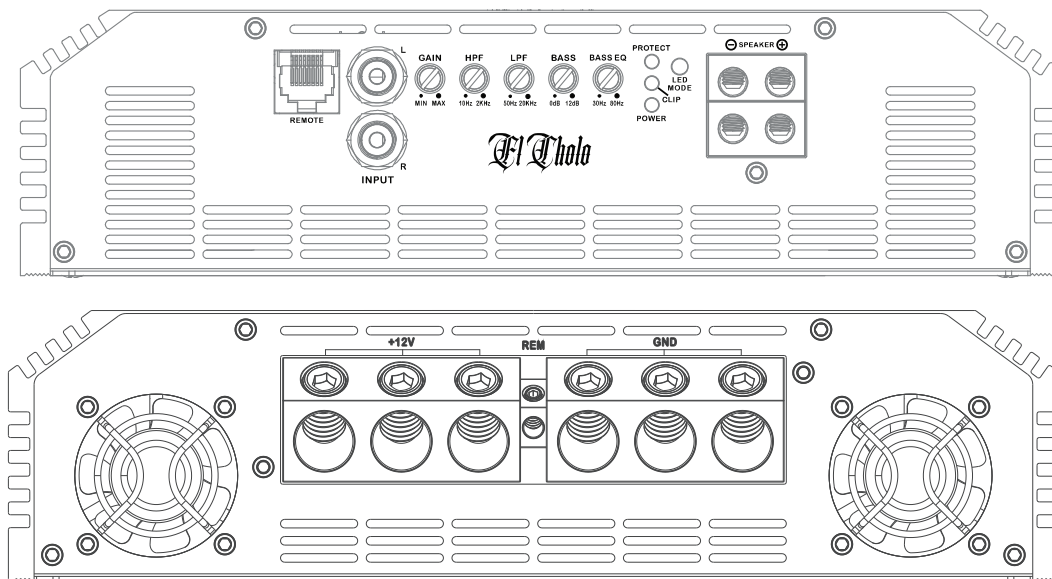
LPF (LOW PASS FILTER 50HZ~20KHZ, 24 DB/OCT)

Adjusts the cut off point for the low pass crossover, if used for subwoofers only a setting from 60 ~ 80 Hz could be suggested.

SPEAKER

The speaker outputs are connected internally, it is not a 2 channel. The two positive and two negative terminals are designed to make it easier to connect multiple loudspeakers.

PANEL LAYOUT



GROUND CONNECTION (GND)

Connect to the vehicle's chassis. Keep as short as possible. Less than 20" / 50 cm for the designated 0 AWG cable. It is imperative that all inputs are used.

REM (12V SIGNAL / SWITCHED INPUT)

Run a remote turn-on cable from a switched +12 V source. This may be a toggle switch, a relay, the source unit's remote output cable or the power antenna trigger wire. Connect the remote turn-on cable to the power terminal labeled REM.

+12V (POWER CONNECTION)

Connects to the positive terminal of the power source. Use minimum 0 AWG to obtain specified performance. Fuses shall be placed within 8" / 20 cm of the battery. All inputs shall be connected with its designated wire.

SPEAKER OUTPUT TERMINALS

Ensure the cable polarity is correct when connecting the loudspeakers. Use a minimum of 10 AWG cable for the subwoofer connection and at least 14 AWG cable for the loudspeakers. The CHOLO amplifier is stable at 1 ohm configuration.

⚠ CAUTION

CONNECT THE +12V WIRE, KEEP IN MIND THAT THIS WIRE MUST BE FUSED AT THE BATTERY AS WELL. ENSURE THE GROUND IS APPROPRIATE, THEN CONNECT IT TO THE AMPLIFIER. CONNECT THE SWITCHED REMOTE. RE-ATTACH THE NEGATIVE WIRE (GROUND) TO THE BATTERY. OPERATION OVER 17 VOLTS WILL CAUSE THE AMPLIFIER TO GO INTO PROTECT MODE AND CAN VOID THE WARRANTY.

INSTALLATION

INSTALLATION CONSIDERATIONS

Installing an amplifier on your own can be a rewarding project, but it's important to approach it with caution and thorough preparation. Reading the owner's manual thoroughly will provide you with the necessary knowledge and precautions to take before beginning the installation process.

If you find yourself uncertain at any point, seeking assistance from authorized distributors or dealers is a wise choice to ensure that your setup is correctly configured and your warranty remains valid. Remember, safety and proper functioning should always be your top priorities when handling electronic equipment.

PREPARATION

When installing an amplifier in a vehicle, it's crucial to disconnect the negative battery cable to prevent any electrical shorts or damage. Ensuring that the battery and alternator have secure and corrosion-free ground connections is vital for the system's performance. The amplifier should be mounted in a location that allows for proper cooling and is safe from excessive vibration; improper mounting can cause damage and hurt performance. Mounting the amplifier vertically helps dissipate heat through the heatsink fins effectively.

It's also important to ensure the installation area is dry and well-ventilated. Careful routing of cables, especially the RCA cables, away from high-current wires minimizes interference and alternator whine. Keeping a good distance between RCA, power, and speaker cables can further reduce potential noise and safety hazards.

POWER CONNECTORS

12V (POWER CONNECTION)

- **DISCONNECT THE BATTERY.** Before mounting the amplifier, disconnect the negative (-) wire from the battery to prevent accidental damage to the amplifier or the audio system.
- **USE PROPER CABLING.** The amplifiers are equipped with 0 AWG power and ground terminals. Always use the appropriate cable size for each terminal to ensure correct operation.
- **CONNECT POWER CABLES.** Attach the power cables to the terminal labeled +12V.
- **INSTALL EXTERNAL FUSES.** These amplifiers are not equipped with internal fuses. External fuses are required at both the battery and the amplifier.
 - Connect one end of the fuse holder to the power cable.
 - Connect the other end of the fuse holder to the positive battery terminal, within 8 inches (20 cm) of the cable connection.
 - Repeat the same procedure at the amplifier end of the power cable.
- **VERIFY FUSE SPECIFICATIONS.** Ensure that the fuses and fuse holders meet the system requirements. Proper fusing will protect both the system and the vehicle against the risk of a short circuit in the power cable.

SAFETY NOTE

Always disconnect the negative (-) battery terminal before working on electrical connections. Use properly insulated cables and secure all connections to prevent short circuits, fire hazards, or damage to the audio system.

TIP

Route all cables away from sharp edges, moving parts, and areas of high heat. Use cable ties or protective tubing to keep wiring secure and organized, ensuring long-term reliability and safety.

INSTALLATION

GND (GROUND CONNECTION)

Locate a secure grounding connection as close as possible to the amplifier. Ensure the location is clean and provides a direct electrical connection to the chassis of the vehicle. Use a cable of equal size to the positive cable for the ground connection.

- The ground cable must be as short as possible, and no longer than 20 inches (50 cm).
- Connect one end of the cable to the grounding point and the other end to the amplifier's mounting location.
- Attach the ground cable to the terminals labeled GND.

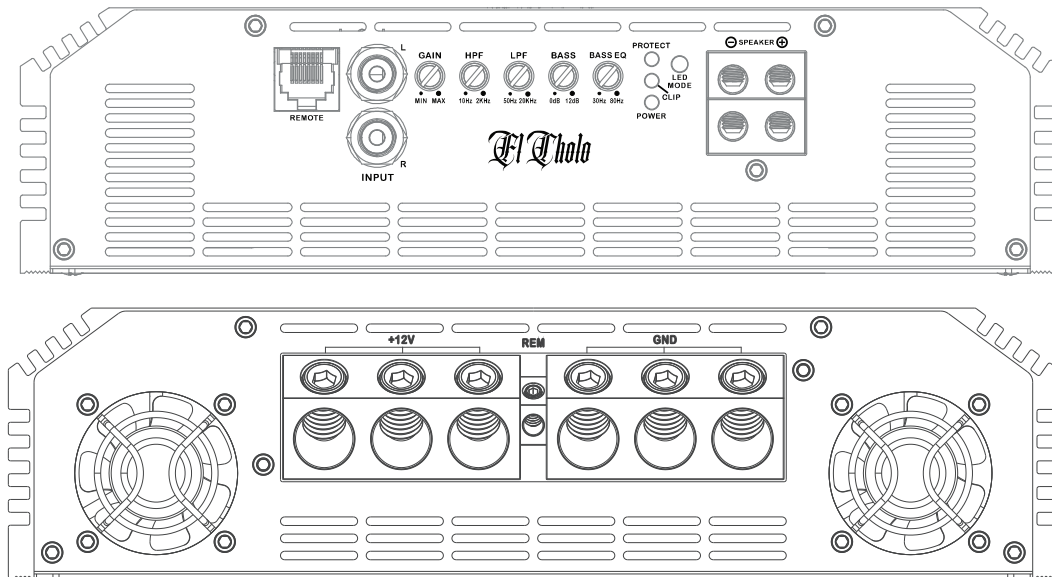
REM (REMOTE CONNECTION)

Run a remote turn-on cable from a switched +12 V source. This may be a toggle switch, a relay, the source unit's remote output cable, or the power antenna trigger wire. Connect the remote turn-on cable to the power terminal labeled REM.

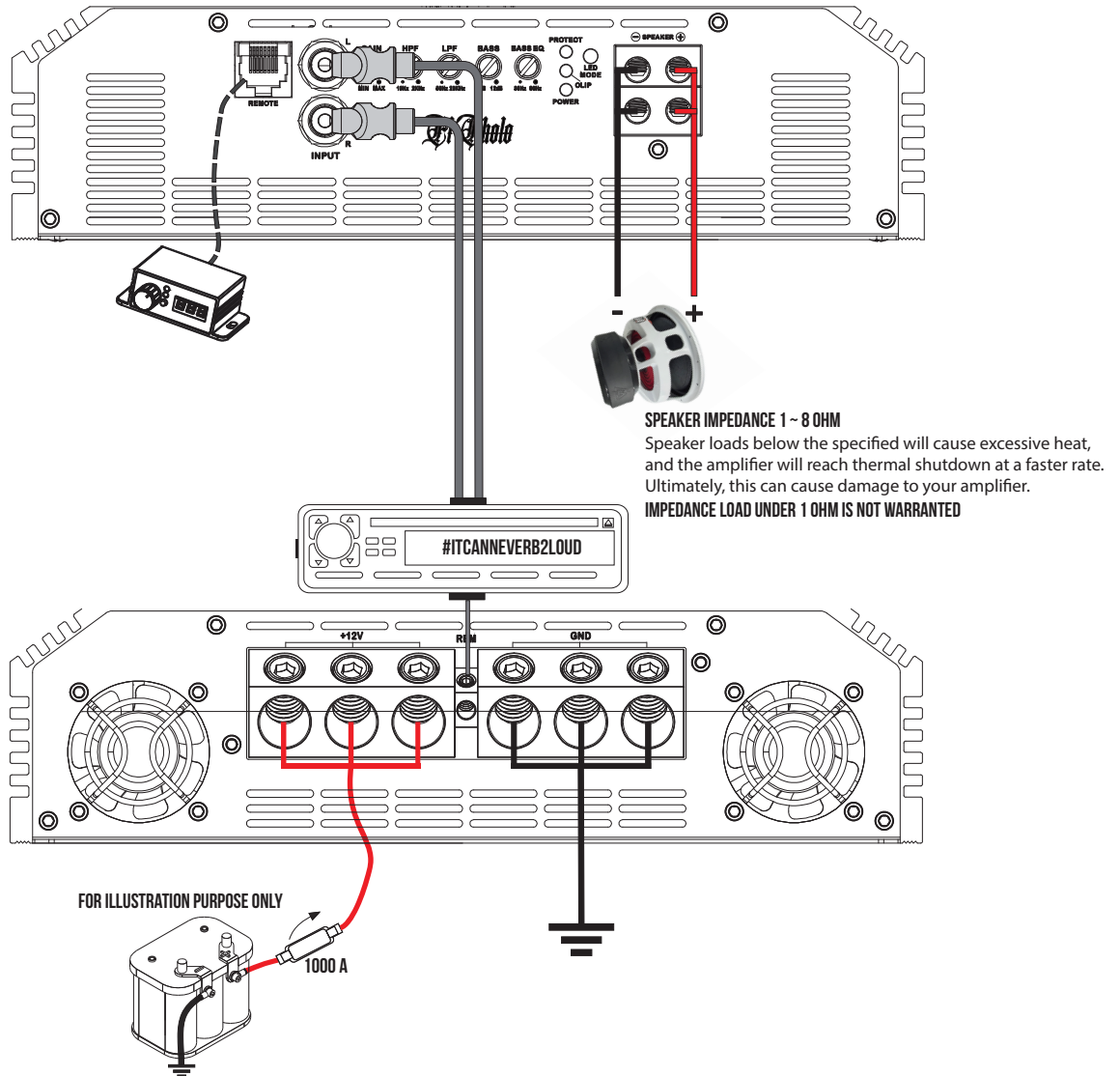
INPUT (RCA CABLE)

Run the RCA cables away from high-current cables and speaker wires, then connect them to the amplifier.

- Use high-quality RCA cables with proper shielding and grounding to avoid amplifier malfunction or alternator whine.



POWER & SPEAKER CONFIGURATION



SPEAKER CABLE CONNECTION

- Use appropriate cable gauge We recommend using a minimum of 10 AWG speaker cable to ensure optimal performance and efficiency.

ROUTE SPEAKER CABLES PROPERLY

- Run the speaker cables from your speakers to the amplifier's mounting location.
- Keep speaker cables separate from high-current power cables.
- If possible, avoid routing them alongside RCA cables.
- Use grommets wherever cables penetrate the vehicle's chassis to prevent damage.

PREPARE CABLE ENDS

- Strip approximately 3/8 inch (1 cm) of insulation from each cable end.
- Twist the strands tightly to prevent stray wires.
- Crimp spade plugs or tin the ends with solder to create a solid terminal.

CONNECT TO AMPLIFIER

- Attach the prepared cable ends to the amplifier's speaker output terminals as shown in the wiring diagram.

TROUBLESHOOTING

The protection circuits of the amplifier prevent severe damage from faulty conditions and improper use. The protection indicator will switch on due to a short circuit connection, high/low voltage or speaker overload, causing the amplifier to turn off. Before inspecting the problem, turn all levels down and all power off, then carefully check the installation for wiring mistakes, shorts, or faulty ground.

If the amplifier shuts down due to excessive heat, the protection indicator will light up; please allow time for the unit to cool off. Before removing your amplifier, refer to the list below and follow the suggested procedures step by step. If you are not at ease, contact an authorized installer who can assist you.

AMPLIFIER DOESN'T TURN ON

- Measure voltage on the +12V terminal.
- Ensure that the remote terminal has min. 13.8 V DC remote connection.
- Recheck the ground (GND) connection. Inspect the in-line fuses.
- Check the protection LED is not on.

PROTECTION LED IS LIT ONCE THE AMPLIFIER IS TURNED ON

- Check shorts on speaker wires & the connected load / impedance. Check power cables & GND.
- Disconnect the speaker cables and reset the amplifier.
- High / Low voltage, operational voltage is 9V- 17V. Voltage beyond will cause the amplifier to go into protect

FUSE BLOWING

- Measure the speaker impedance & that it is in accordance with the configuration.
- Inspect the power cable for shorts along with vehicle chassis.

OVERHEATING

- Measure the speaker impedance & that it is in accordance with the configuration.
- Check speaker shorts.
- Ensure airflow around the amplifier is sufficient & that the amplifier is not installed in areas of excessive vibration & upside down!

AUDIO OUTPUT INSUFFICIENT - DISTORTED SOUND

- Ensure that the gain settings on the amplifier is matched with the output level of the head unit.
- Adjust the head unit volume.
- Check speaker shorts.
- Adjust the crossover frequencies in accordance with the setup.
- If no output at all, check the RCA connections & the cable itself.

TURN ON THUMP

- Disconnect the signal input to the amplifier, then turn it on and off.
 - a) If the noise is cancelled, then connect a delay turn on module on the REM wire running from the source unit to the amplifier.
 - b) Use another 12V source for REM lead to the amplifier. If the noise is cancelled, use a relay to isolate the amplifier from the turn on thump.

HIGH HISS - ALTERNATOR WHINE

- Ensure that all signal transferring wires (RCA, speaker cables etc) are kept separately / away from the power and the ground wires.
- Bypass all electrical components between the Head unit and the amplifier. Connect the Head unit directly to the amplifier's input. If the noise is eliminated, the unit bypassed is the one causing the noise.
- Remove the existing ground wires for all electrical components installed. Ensure that the point of ground is 100% metal which has been grinded free of rust, paint etc.
- Replace the ground cable from the OEM battery / alternator and ensure it is grounded accordingly.
- Test the battery and alternator load (can be carried out by a professional). Ensure that the vehicle's electrical system is in a good condition, this includes distributor, alternator, spark plugs / wires, voltage regulators etc.

ACCU8

- **THE ACCURATE CROSSOVER SETTING**

Dealing with guesses or improper crossover settings is frustrating, especially when you've invested both time and money into your audio system. With a DSP, you can set crossovers at any specified frequency. However, on a traditional amplifier's crossover setting, you would normally rely on costly tools or trial-and-error adjustments.

The ACCU8 feature eliminates this challenge. All potentiometers are designed with a 41-click ratio. Each click corresponds to a specific frequency or a precise level increase in dB. Refer to the chart below for the exact settings associated with each click position.

STEP	LPF(HZ)	HPF(HZ)	BASS(DB)	BASS EQ(HZ)
1	28,31	22,80	0,056	41,39
2	28,33	22,82	0,057	41,40
3	28,35	22,84	0,058	41,41
4	28,37	22,87	0,060	41,43
5	28,40	22,88	0,061	41,45
6	28,42	22,91	0,064	41,47
7	28,44	22,99	0,075	41,50
8	28,46	23,04	0,077	41,53
9	28,48	23,18	0,093	41,56
10	28,50	23,45	0,81	41,58
11	28,52	23,71	1,18	41,65
12	28,54	23,83	2,27	41,66
13	28,56	24,80	3,62	41,68
14	32,68	25,82	4,90	42,05
15	39,73	26,68	5,88	42,81
16	48,94	27,75	6,75	43,65
17	51,08	29,62	7,60	43,85
18	54,86	31,49	8,31	45,03
19	59,57	34,06	8,97	45,70
20	65,90	37,02	9,59	46,21
21	75,52	39,55	10,16	47,80
22	83,86	42,46	10,67	47,94
23	90,73	45,50	11,22	49,83
24	100,69	50,88	11,68	50,95
25	116,35	59,23	12,14	52,47
26	141,69	67,03	12,58	54,91
27	165,63	76,77	13,04	57,52
28	209,21	93,87	13,49	60,25
29	271,87	118,74	13,96	66,04
30	414,49	167,78	14,36	72,37
31	734,21	273,55	14,64	79,41
32	901,40	318,18	14,73	83,15
33	1.17K	381,14	14,81	85,18
34	1.72K	494,12	14,90	87,25
35	3.06K	684,58	14,95	91,20
36	3.54K	768,08	14,97	91,31
37	4.97K	843,25	15,00	95,48
38	7.80K	948,32	15,02	95,49
39	9.90K	1.01K	15,03	95,50
40	12.75K	1.07K	15,033	99,87
41	12.77K	1.076K	15,038	99,96



LIMITED WARRANTY INFORMATION

B2 audio offers a limited warranty under the following terms:

The product is to be free of defects in material & workmanship under normal use for a period of 1 year from the date of the original purchase, when installed by an authorized dealer. Items not installed by authorized dealers will be warrantied for 30 days from the original purchase. Original sales receipts must be accompanied with all returns. The warranty applies to the original purchaser of the product & it being sold by authorized B2 audio dealers.

- The warranty does not cover:
1. Damage caused by accident, abuse, misuse, improper operation, water / solvents & shipping.
 2. Product modification, neglect, failure to follow installation instructions & misrepresentation by the seller.
 3. Products used for competition purposes or are of such a character
 4. Any product that has been opened.
 5. Products that has had the serial number defaced, altered or removed.
 6. The cost of shipping the product back for repair to an authorized repair centre & cost of return of non-defective items.