



4753IQ
(1995-MSRP \$799.00)

OWNER'S MANUAL AND INSTALLATION GUIDE

4-CHANNEL MULTI-CONFIGURATION AMPLIFIER

INTRODUCTION

The **4753IQ** is a multi-channel amplifier providing both power and flexibility. The **4753IQ** provides 75 watts RMS per channel. The amp has an unregulated driven power supply for greater dynamic headroom. Each of the four channels in this amplifier has its own dedicated 12dB/octave crossover. The mode of operation for the amplifier is user selectable, for one of three possible configurations - **full range**, **bi-amp**, or **satellite**. In the **full range** mode, all four channels cover the entire music spectrum. The **bi-amp mode** dedicates the front channels for a high pass output and the rear channels become the subwoofer output, electronically crossed in the **4753IQ** using a variable crossover. In the **satellite mode**, both front and rear outputs are high pass outputs with the low pass RCA outputs active providing subwoofer information for a separate amplifier. These are also crossed over variably by the **4753IQ** from 50Hz to 150Hz. The outputs of this amplifier have inverted right channel outputs allowing the user to bridge the speaker outputs. Using a mixed stereo/mono configuration on both front and rear outputs offers a possibility of six-channel operation with any of these amplifiers.

INSTALLATION

WIRING: Disconnect battery ground cable before making any power connections.

RED WIRE: +12 volts - Connect directly to battery positive terminal and should be fused within 18 inches of battery and another fuse where the connection to the amplifier is made. Remember to use the proper size fuses. **Do not** install power fuse until installation of amplifier is complete!

WARNING: USE OF OVERSIZED FUSES WILL DAMAGE YOUR AMPLIFIER.

BLACK WIRE: Negative ground - Connect to clean unpainted metal surface on car chassis.

RED/WHITE WIRE: Remote turn on lead requires +12 volts; connect to power antenna lead from radio. When this is not available you may connect to a +12 volts wire that is on with the ignition on or in the accessory position.

RCA CONNECTIONS: Connect with quality-shielded patch cords from source, crossover, or any other sound processor.

MODE SELECTION: A switch, accessible through the plug on the bottom of the amplifier, selects one of the three operating modes for the amplifier. Position A (satellite mode): both front and rear outputs are high pass and variable in the **4753IQ** from 50Hz to 150Hz. The subwoofer RCA output is active with subwoofer information for another amplifier being supplied, and is variable from 50Hz to 150 Hz in the **4753IQ**. Position B (bi-amp configuration): the front outputs are high pass, and the rear outputs become subwoofer outputs in the **4753IQ** and the crossover points are variable from 50Hz to 150Hz. Position C (full range operation) front and rear. In the **4753IQ** the subwoofer outputs are also active in this model. NOTE: In all modes both front and rear inputs are required. You can use "Y" RCA connectors to accomplish this.

SPEAKER CONNECTIONS: The speaker connections are accomplished by connecting speaker wire to removable plugs. These plugs will accept up to a 12-gauge speaker wire. Facing the plug while it is connected to the amplifier the polarity for both plugs in Left (-), Left (+), Right (-), Right (+) with the left plug being the front outputs and the right being the rear outputs. The exception to this is when in Position B of the mode selector: the front speaker plug is your high pass output and the rear speaker plug is your low pass (or, subwoofer output).

MINIMUM OHM LOADS: Normal operation is 4 ohms per channel or 8 ohms mono. The amplifier will operate at 2 ohms per channel or 4 ohms mono but the following must be done: You must change the "power supply impedance matching connectors". Remove faceplate and bottom cover and locate toroid coil, just below it are two disconnects on taps marked "4". Change them to "2", replace cover and complete installation. Failure to change these connections can cause premature failure of your amplifier.

4753IQ CROSSOVER ADJUSTMENT AND OPERATION: In satellite mode (position A) the front crossover adjustment controls the front high pass and the subwoofer outputs. The rear adjusts only the rear. In the full range mode (position C) the front crossover adjustment sets the low pass frequency for the subwoofer output. Adjust the crossover to the position that offers the best sound in your system.

OPERATION / ADJUSTMENT

There are two gain adjustments on the amplifier, one for front and one for rear. Follow these directions for both: Set the amp gain to minimum, turn the source up until it just starts to distort, then back down slightly. This is the point where the output of the source is cleanest. Now adjust the amplifier gain up until it just starts to distort and back down slightly. This will allow the source and amp to reach maximum usable output at the same time.

MOUNTING

1. The amplifier works best if it is kept as cool as possible. Mount in a position that allows air to flow freely through the fins. Be sure there is ample space above the amplifier to avoid trapping heated air rising from the amplifier. The amplifier should not be mounted upside down. Avoid mounting any amplifier in the dash or on the firewall to avoid noises being radiated directly onto the case.

2. The case of your amplifier is designed to act as a noise shield. To maintain this protection, be sure the metal case of the amp does not touch the metal of the car. Do not remove or damage the rubber grommets, which provide electrical insulation and vibration isolation.

GENERAL TROUBLESHOOTING

NO SOUND

Check all connections. Check main power fuses. Check accessory fuse. With a trouble light or meter, be sure +12v is present at the amplifier on the power wires and the red/white turn-on wire. Check for a good ground connection. Check by substitution, or other method, for proper operation of music source.

BLOWS FUSES

check all connections to be sure power wires and speaker wires do not touch each other or ground. Re-check polarity of main power wires. Check impedance of speaker loads and setting of the internal power taps to insure proper match.

SHUTS OFF

As this amplifier is equipped with thermal and short circuit shut-down electronics, in the event of high ambient temperature or improper speaker impedances, the amp will turn itself off. To avoid damage to speakers, turn down the volume while waiting for the amp to turn itself back on. If this occurs repeatedly, use a fan to cool the amplifier and check for proper speaker loads and connections.

SERVICE OR REPAIR

To obtain modification, service or repair, please contact our **ONLY Authorized LINEAR POWER™ Product Service Center:**

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SPECIFICATIONS

4753IQ

	4753IQ
Rated output 4/2 ohms	75w/ch
Rated THD 4 ohms	.05%
2 ohms	.10%
Damping factor 4 ohms	450
2 ohms	250
Signal to noise (Min/Max gain)	95db/80db
Channel separation (Min/Max gain)	78db/62db
Input sensitivity	150mV-5V
Input impedance	50Kohms
Power Consumption	
At Idle	1A
4 ohms rated power	35A
2 ohms rated power	45A
Fuse rating	40A
Dimensions HxWxL	2.25"x10.25"x12"

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