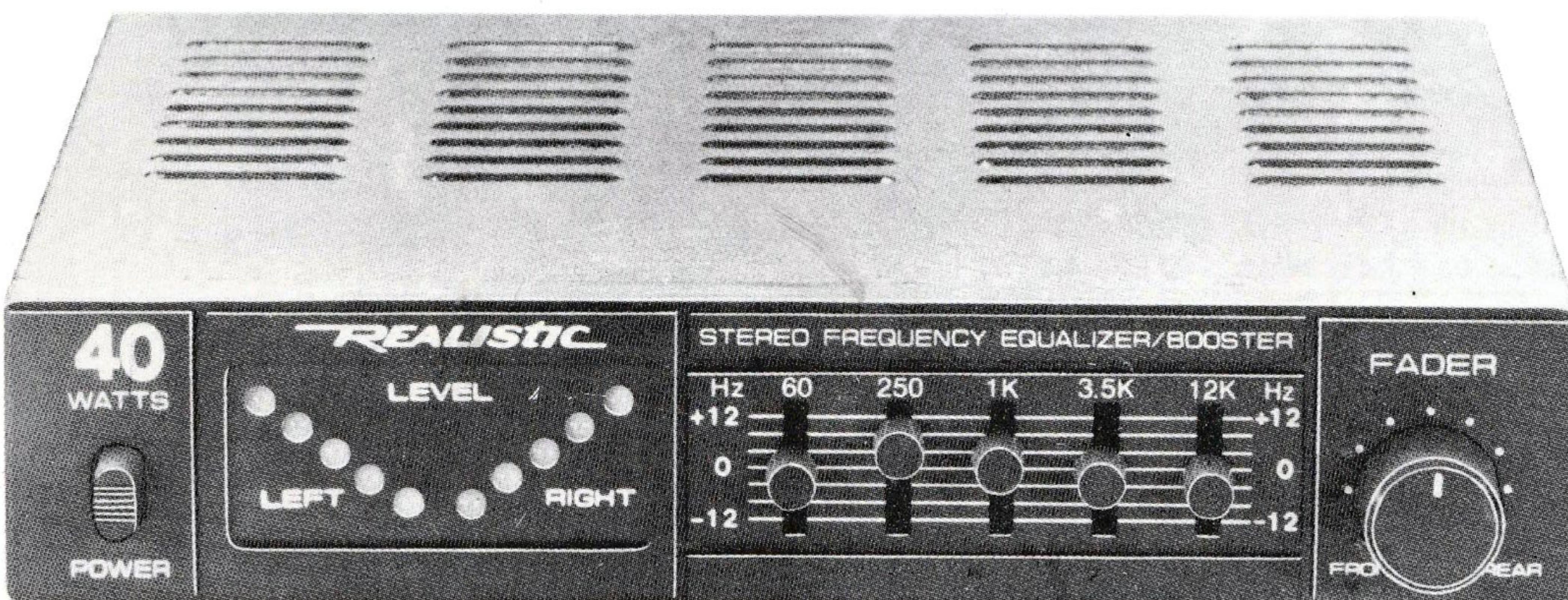


STEREO FREQUENCY EQUALIZER/BOOSTER



CUSTOM MANUFACTURED FOR RADIO SHACK, A DIVISION OF TANDY CORPORATION

OWNER'S MANUAL

PLEASE READ BEFORE
USING THIS EQUIPMENT

REALISTIC[®]

CAT. NO.
12-1865

Your new REALISTIC Micro Stereo Frequency Equalizer/Booster allows you to precisely tailor the sound from your existing stereo Car Radio or Tape Player to match your own taste and the acoustics of your automobile. The five linear sliding controls let you adjust the response of your system \pm 12 dB around center frequencies of 60 Hz, 250 Hz, 1 kHz, 3.5 kHz and 12 kHz. Discover brilliant new sounds you've been missing!

Your REALISTIC Equalizer/Booster is a skillfully constructed electronic package providing up to 20 watts per channel of output power. Its **FADER** control allows you to adjust the sound balance between front and rear speakers for the best possible sound reproduction.

You can install your Equalizer/Booster easily with the Universal Mounting Brackets provided. It will operate from 12 volts DC, **negative ground only**.

SPECIAL NOTE:

This Booster has been designed to be connected to units which incorporate BTL (Balanced Transformer-Less) circuitry or to common-ground type. (Many boosters can not be connected to BTL-type circuits without damage.) However, it is vital that you properly identify input and output wires and that you do not interconnect "Ground" or "Negative-side" speaker wires. If you are not sure how to connect a booster to your existing unit(s), we strongly recommend that you have your system installed by an experienced electronics service technician.

SPECIFICATIONS

Maximum Output Power	25 watts per channel, 50 watts total (with four 8 ohm speakers connected)
Frequency Response	30–30,000 Hz, \pm 3 dB
Total Harmonic Distortion	Less than 1%
Separation	Better than 55 dB
Tone Control Center Frequencies	60 Hz, 250 Hz, 1 kHz, 3.5 kHz and 12 kHz.
Tone Control Range	\pm 12 dB
Load Impedance	8 ohms per output load in 4-speakers system
Current Drain	5A Maximum
Power Supply Voltage	DC, 14.4V Negative Ground
Dimensions	30mm(H) x 152mm(W) x 120mm(D) (1-3/16" x 5-15/16" x 4-3/4")
Weight	710 g (1 lb. 9 oz.)

WARNING:

Your speaker installation must have a total power capacity of at least 40 watts program material. For example, to use four 8-ohm speakers, each speaker must be rated for at least 10 watts program. The high power levels produced by this Equalizer/Booster can damage low-wattage speakers. In addition, you must be sure to use only 8-ohm speakers. Use of speakers rated less than 8 ohms may damage the Booster.

CONTROLS AND OPERATION

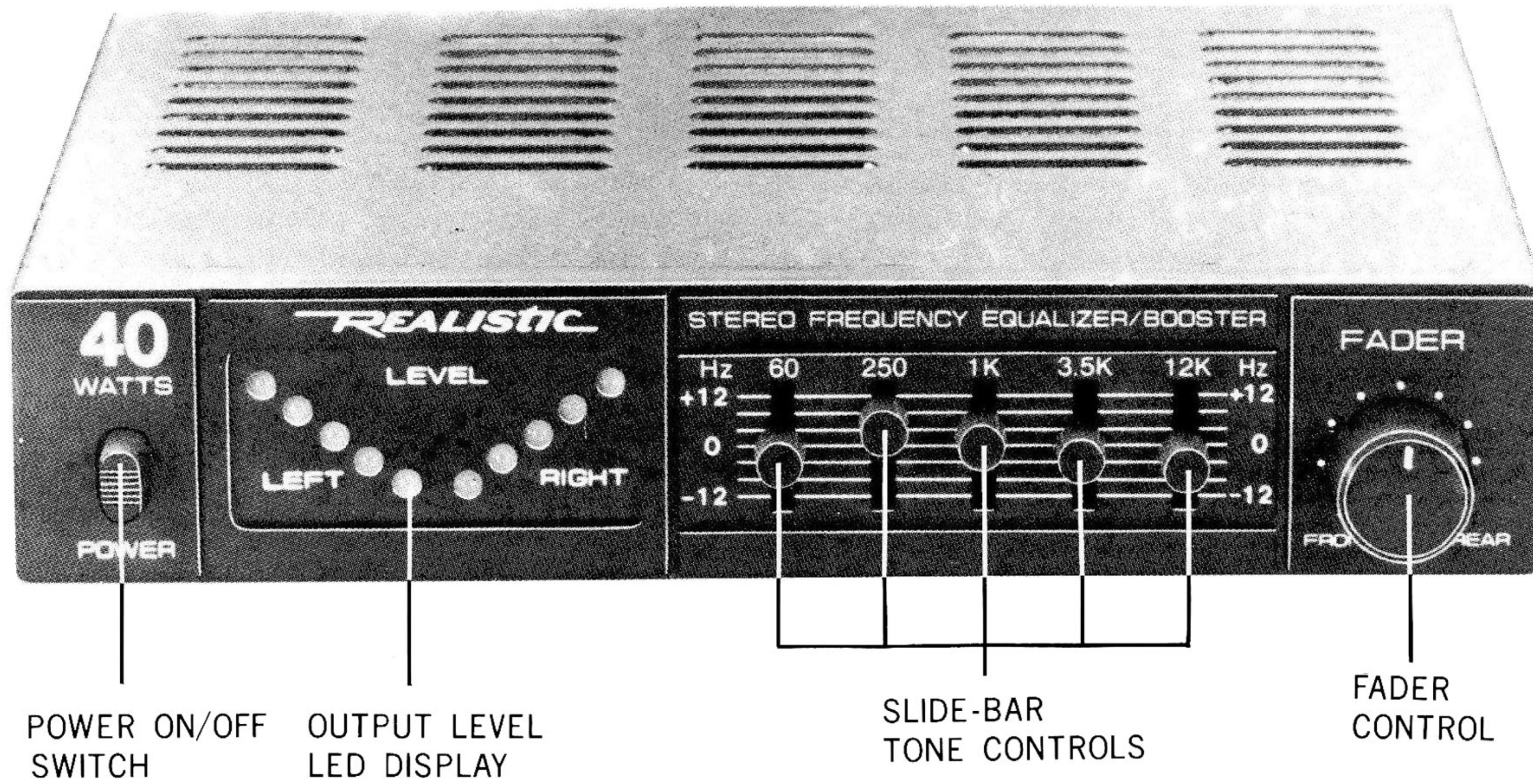


Figure 1

Turning on the Equalizer/Booster

First turn on your Radio or Tape Player and set volume to a low level. Press the POWER Button in to turn on the Equalizer/Booster. The sound level from the speakers will increase significantly. Re-adjust the volume control on your Radio or Tape Player to a suitable level.

The POWER switch only turns the Booster on and off; use the Radio/Tape Player's power switch to turn the Radio/Tape Player on and off.

NOTE:

You can turn on the Equalizer/Booster first by pressing in the POWER Button and then setting your Radio or Tape Player's volume control to a low level setting. Then turn on the Radio or Tape Player power and adjust the volume of the "boosted" sound to your liking.

If the output level LED's fail to light while operating your Equalizer/Booster the fuse may be blown. Check it and if necessary replace it with the same size and type fuse (do not replace with a high amperage-rated fuse).

Equalizer Controls

Sliding the five Equalizer controls up or down tailors the frequency response of the Booster. Instead of having only two tone controls to work with (bass and treble), you get five – low bass, bass, midrange, treble, and high treble. This means you can adjust the sound precisely to match your vehicle's acoustics. Each of the five controls lets you adjust the response ± 12 dB around a center frequency – 60 Hz, 250 Hz, 1 kHz, 3.5 kHz, or 12 kHz – as marked above the controls. Setting a control in the center-detent position (0) provides a “flat” response for that particular tonal range.

When the Booster's Power button is in the Out position, Equalizer controls have no effect on the sound.

FADER Control

This control adjusts the volume between the front and rear speakers in a 4-speaker system. Turning the FADER counterclockwise increases front speaker sound (both right and left channels equally). Turn it clockwise to increase the sound level from the rear speakers.

If the Tape Player/Radio unit has a fader control, leave it set to the center position and adjust the Booster's FADER control. By the way, if you connect only one pair of speakers, set the FADER control to the center position and adjust the volume from the Tape Player/Radio only.

INSTALLATION NOTE:

You may either connect the Electrical Wiring or install your Equalizer/Booster first—whichever is most convenient for you. If, after reading the following instructions, you are unsure about performing the installation (questions like, “Is my car negative ground? Which cord is the power cable? How do I connect to the fuse box?”), we suggest you have booster installed by a qualified electronics technician.

IMPROPER WIRING OF THE POWER BOOSTER COULD DAMAGE YOUR CAR'S ELECTRICAL SYSTEM.

ELECTRICAL WIRING

Disconnect the power cable connector from your Stereo Radio or Tape Player and plug it into the appropriately marked connector on the Equalizer/Booster as illustrated in Figure 2.

Fasten the single black wire from the Equalizer/Booster to a convenient metal frame connection of your vehicle (or – battery terminal). Connect wires to the Speakers as illustrated in Figure 2. Remove the fused power lead from your tape player or radio, if terminated in a plug, and re-connect it to the rear of the booster as shown in Figure 2. The other end of the power lead should be connected to a source of 12 volts DC, such as a fuse box. If you do not have a wire as described above, examine the selection of plugs and adapters at your Radio Shack store so as to duplicate the connection shown in Figure 2. The power input lead is identified in the figure as the one with the in-line 6A fuse.

Be sure that you keep right and left speaker ground/common leads separated (don't interchange these wires).

IMPORTANT WIRING NOTE

Each speaker **MUST** have a **SEPARATE** ground wire connection. **DO NOT** use a common wire for the minus (–) side of the speakers. **DO NOT** connect the minus (–) side of the speakers to a common ground point.

CAUTION:

If your Stereo Radio or Tape Player requires a connector which differs from the one on your Equalizer/Booster, we suggest you take your car to a qualified Electronics Service Technician and have him rewire as necessary. He may find our Universal Car Stereo Connector (Cat. No. 270-017) helpful in making these connections. Improper connections can result in damage to the Equalizer/Booster, Radio, Tape Player.....or even to the wiring of your vehicle.

In-line Fuses

If existing fuses for the Radio or Tape Player are 2A or 3A, use a 6A fuse between the Equalizer/Booster and 12-volt power source. If the Radio or Tape Player comes with a 4A or 5A fuse, then use a 7A fuse between the Equalizer/Booster and power source (i.e. fuse to 12-volt power source must always be higher than the rating of the fuse for the Radio or Tape Player).

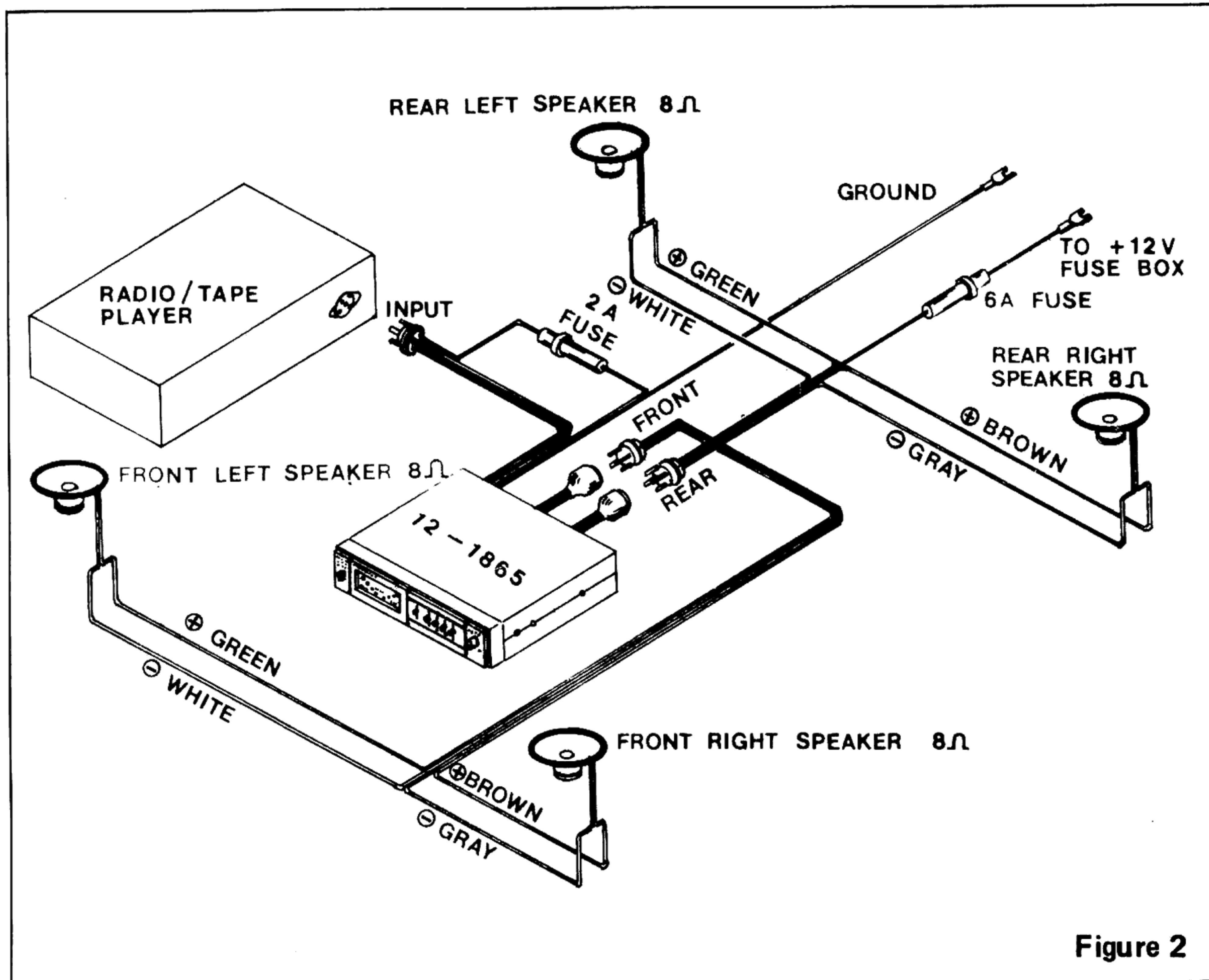


Figure 2

NOTE:

We supplied you with a higher rated fuse than the one that comes with your Radio/Tape Player. Use this higher rated fuse for the power lead from the Booster to the power source. Use the fuse in your existing Radio/Tape Player for the fuse holder between the Booster and Radio/Tape Player.

THE FUSE BETWEEN THE BOOSTER AND POWER SOURCE SHOULD ALWAYS BE THE LARGER ONE.

MOUNTING THE EQUALIZER/BOOSTER

First, select a suitable mounting location.

It must be:

1. Close enough to the Stereo Radio or Tape Player so interconnection can be made.
2. Close enough to a power source of 12 volt DC so the power cable will reach.
3. Convenient for use (easy to switch on and off and adjust controls as desired).

Attach the provided bracket to the dashboard. Install the Equalizer/Booster using the washers and screws provided. (See Figure 3.) Take care that you don't drill into existing wires, etc.

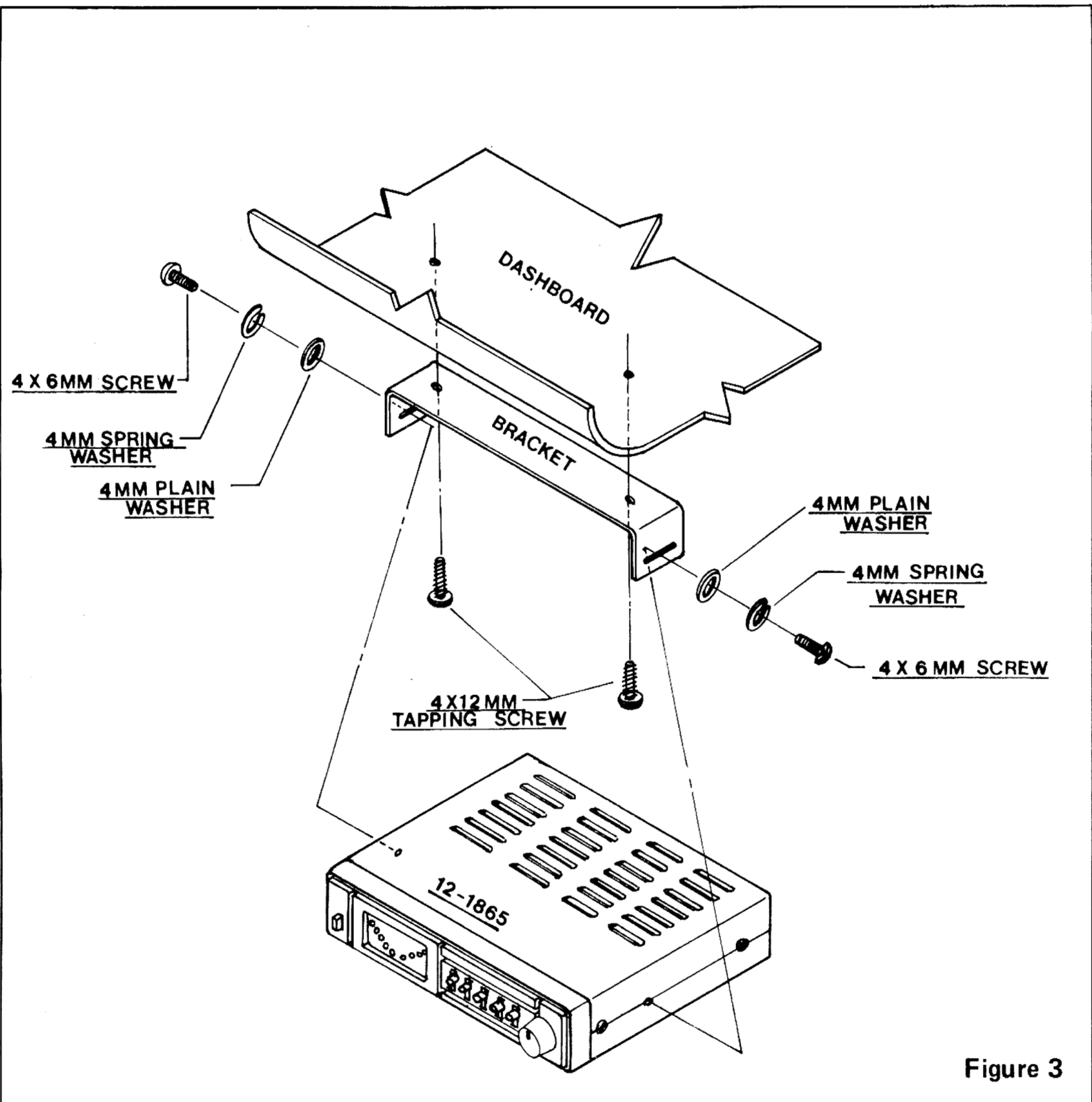
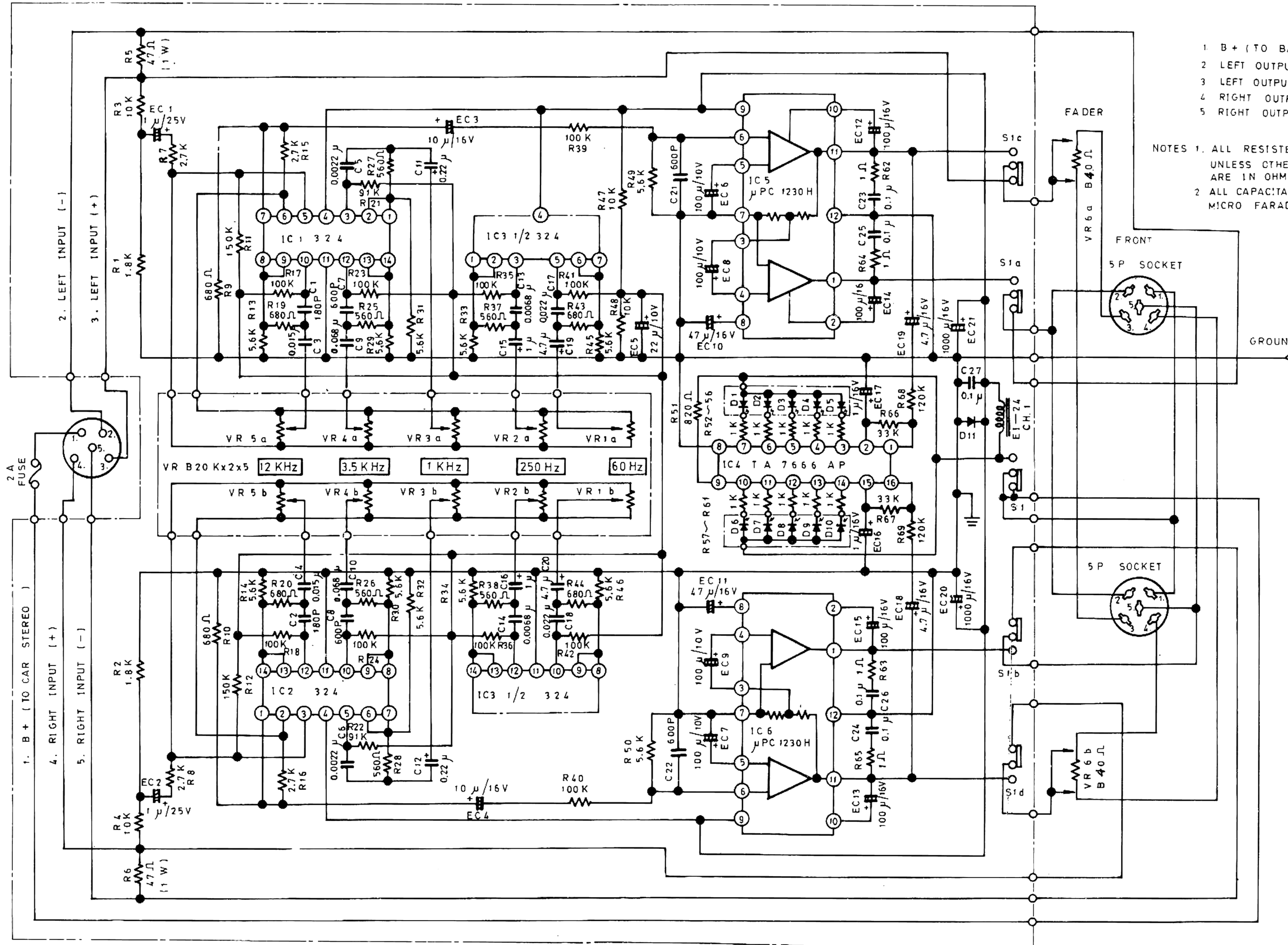


Figure 3

SCHEMATIC DIAGRAM



Schematic subject to change without notice.
 For most accurate Schematic (and parts)
 contact Radio Shack, National Parts Dept.,
 Fort Worth, TX 76101

RADIO SHACK LIMITED WARRANTY

This product is warranted against defects for 1 year from date of purchase from Radio Shack company-owned stores and authorized Radio Shack franchises and dealers. Within this period, we will repair it without charge for parts and labor. Simply **bring your Radio Shack sales slip** as proof of purchase date to any Radio Shack store. Warranty does not cover transportation costs, or a product subjected to misuse, accidental damage, alteration or improper installation.

EXCEPT AS PROVIDED HEREIN, RADIO SHACK MAKES NO WARRANTIES, EXPRESS OR IMPLIED, INCLUDING WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. Some states do not permit limitation or exclusion of implied warranties; therefore, the aforesaid limitation(s) or exclusion(s) may not apply to the purchaser.

This warranty gives you specific legal rights and you may also have other rights which vary from state to state.

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