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CARVER

Powerful • Musical • Accurate

TFM-75
Simultaneous High Voltage/High Current
Magnetic Field Power Amplifier

Owner's Manual

CARVER

TFM-75

Safety Instructions

1. Read Instructions — All the safety and operation instructions should be read before the Carver Component is operated.

2. Retain Instructions — The safety and operating instructions should be kept for future reference.

3. Heed Warnings — All warnings on the Component and in these operating instructions should be followed.

4. Follow Instructions— All operating and other instructions should be followed.

5. Water and Moisture— The Component should not be used near water - for example, near a bathtub, washbowl, kitchen sink, laundry tub, in a wet basement, or near a swimming pool, etc.

6. Ventilation — The Component should be situated so that its location or position does not interfere with its proper ventilation. For example, the Component should not be situated on a bed, sofa, rug, or similar surface that may block any ventilation openings; or placed in a built-in installation such as a bookcase or cabinet that may impede the flow of air through ventilation openings.

7. Heat — The Component should be situated away from heat sources such as radiators, or other devices which produce heat.

8. Power Sources — The Component should be connected to a power supply only of the type described in these operation instructions or as marked on the Component.

9. Power Cord Protection — Power-supply cords should be routed so that they are not likely to be walked upon or pinched by items placed upon or against them, paying

particular attention to cords at plugs, convenience receptacles, and the point where they exit the Component.

10. Cleaning — The Component should be cleaned only as recommended in this manual.

11. Non-use Periods—The power cord of the Component should be unplugged from the outlet when unused for a long period of time.

12. Object and Liquid Entry — Care should be taken so that objects do not fall into and liquids are not spilled into the inside of the Component.

13. Damage Requiring Service— The Component should be serviced only by qualified service personnel when:



A. The power-supply cord or the plug has been damaged; or

B. Objects have fallen, or liquid has spilled into the Component; or

C. The Component has been exposed to rain; or


D. The Component does not appear to operate normally or exhibits a marked change in performance; or

E. The Component has been dropped, or its cabinet damaged.



CAUTION


RISK OF ELECTRIC SHOCK
DO NOT OPEN

CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK
DO NOT REMOVE COVER (OR BACK)
NO USER-SERVICEABLE PARTS INSIDE
REFER SERVICING TO QUALIFIED SERVICE PERSONNEL




The lightning flash with arrowhead symbol within an equilateral triangle is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure, that may be of sufficient magnitude to constitute a risk of electric shock to persons.



The exclamation point within an equilateral triangle is intended to alert the user of the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

PORTABLE CART WARNING



Carts and stands - The Component should be used only with a cart or stand that is recommended by the manufacturer. A Component and cart combination should be moved with care. Quick stops, excessive force, and uneven surfaces may cause the Component and cart combination to overturn.

14. Servicing — The user should not attempt to service the Component beyond those means described in this operating manual. All other servicing should be referred to qualified service personnel.

15. Grounding or Polarization — Precautions should be taken so that the grounding or polarization means of the Component is not defeated.

16. Internal/External Voltage Selectors — Internal or external line voltage selector switches, if any, should

only be reset and re-equipped with a proper plug for alternate voltage by a qualified service technician. See an Authorized Carver Dealer for more information.

17. Attachment Plugs for Alternate Line Voltage (Dual voltage models only) — See your Authorized Carver Dealer for information on the attachment plug for alternate voltage use. This pertains to dual-voltage units only.

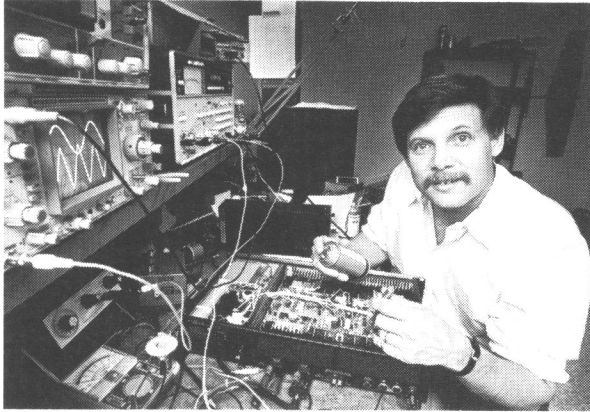
WARNING – TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE.

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A Message From Bob Carver



Dear Customer,

Thank you for choosing Carver electronics. We at Carver Corporation realize that there is an abundance of home electronics from which to choose, and the differences between the various models are not always apparent at first glance. Carver Corporation strives to produce for you the finest in audio reproduction equipment by integrating the latest and best technology with the most competitive price possible.

The TFM-75 incorporates Carver's exclusive Magnetic Field Amplifier technology, which makes it capable of higher simultaneous current and voltage than any other design in its price range. Judged against other amplifier standards, it is second to none. Its sound quality is smooth, sweet and absolutely dynamically accurate. With both channels driven, it can deliver up to 1000 watts per channel into 4 ohms with less than 0.25% THD.

The TFM-75 is a fine example of our commitment to excellence. We believe its sophisticated engineering and meticulous craftsmanship will provide you with many years of listening pleasure.

Sincerely,

Bob Carver

Features and Specifications

Features

- 750 watts per channel into 8 ohms.
1000 watts per channel into 4 ohms.
- Exclusive Carver Magnetic Field Power Supply provides simultaneous high voltage and high current in a unit that is smaller and much more efficient than conventional amplifier designs with equivalent power ratings.
- Analog power meters.
- Left and right detented Input Level controls.
- 5-way speaker binding post outputs
- Fully modular dual monaural design
- Triac regulated primary voltage
- Triple-rail power supply for increased efficiency
- Protection Circuitry
 - Thermal
 - Short Circuit
 - Excessive High Frequency
 - DC Offset
 - Separate L/R AC Line Fuses

Specifications

Power Output:

Continuous Average Power Output (both channels driven):

750 watts RMS per channel into 8 ohms from 20 Hz to 20 kHz, with no more than 0.25% THD

1000 watts RMS per channel into 4 ohms from 20 Hz to 20 kHz with no more than 0.25% THD

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Frequency Response:

20 Hz to 20 kHz (+0, -1.0dB)

Frequency Bandwidth:

-3.0dB, 6Hz – 93 kHz

TIM:

0.1% (SMPTE)

Input Impedance:

47 K ohms

Sensitivity:

1.9 V RMS for rated power into 8 ohms
71mV RMS for 1 watt output into 8 ohms

Gain:

32 dB

Damping Factor:

Greater than 200 at 1kHz

Slew Rate:

25V/μS

Signal to Noise Ratio:

100dB A-weighted, referenced to rated power

Power Requirements:

120 V/60Hz, 12 Amps per channel, USA
Other voltages available as export models

Power Consumption:

1400 watts per channel at full power into
8 ohms
72 watts per channel at idle

Dimensions:

5.25"H x 19"W x 12.75"D
133mm x 483mm x 324mm

Net Weight:

48 lbs (21.8 kgs.)

Shipping Weight:

54.25 lbs (24.6 kgs.)

Features and specifications are subject to change without notice.

Unpacking and Paperwork

Upon opening the box, please check for any damage that does not appear on the outside of the box. If you do encounter what appears to be concealed damage, please consult your Dealer before proceeding to further unpack the unit.

If no damage is found, gently lift the amplifier out of the box, and remove the packing material.

Please save the box, as well as all of the internal packing materials! This container is the best way to store and move your new amplifier. If your amplifier should need repair, the original container is ideal for shipping to a Carver Service Center.

Make a note of the serial number which is located on the back of your amplifier. Record it in the space provided at the right for convenient reference. You will need to refer to this number if you need service or if your unit is (perish the thought) stolen.

Model: **TFM-75**

Serial number _____

Purchased at _____

Date _____

Be sure to save your sales receipt. It is extremely important in establishing the duration of your Limited Warranty and for insurance purposes.

Finally, take a moment to fill out and return the Warranty Card that came with the amplifier and return it to Carver. It provides us with important information about you, our valued customer.

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Installation

Rear Panel

- 1. LINE LEVEL INPUTS.** You may attach virtually any quality preamplifier to the TFM-75.
- 2. SPEAKER OUTPUTS.** These multi-way binding posts are designed for banana plugs or direct wire connections. Please see *Speaker Connections* on page 8 of this manual for information on cable selection and connection to your loudspeakers.

Important: The output of the TFM-75 can develop hazardous voltages. Care should be taken in connecting the speakers to prevent electric shock or damage to the amplifier. Turn both channels of the TFM-75 OFF before making any change to speaker wiring, or when connecting the unit to another component.

- 3. FUSES.** There is a separate line fuse for each channel of the TFM-75. Always replace with the same type fuse as indicated on the rear panel.

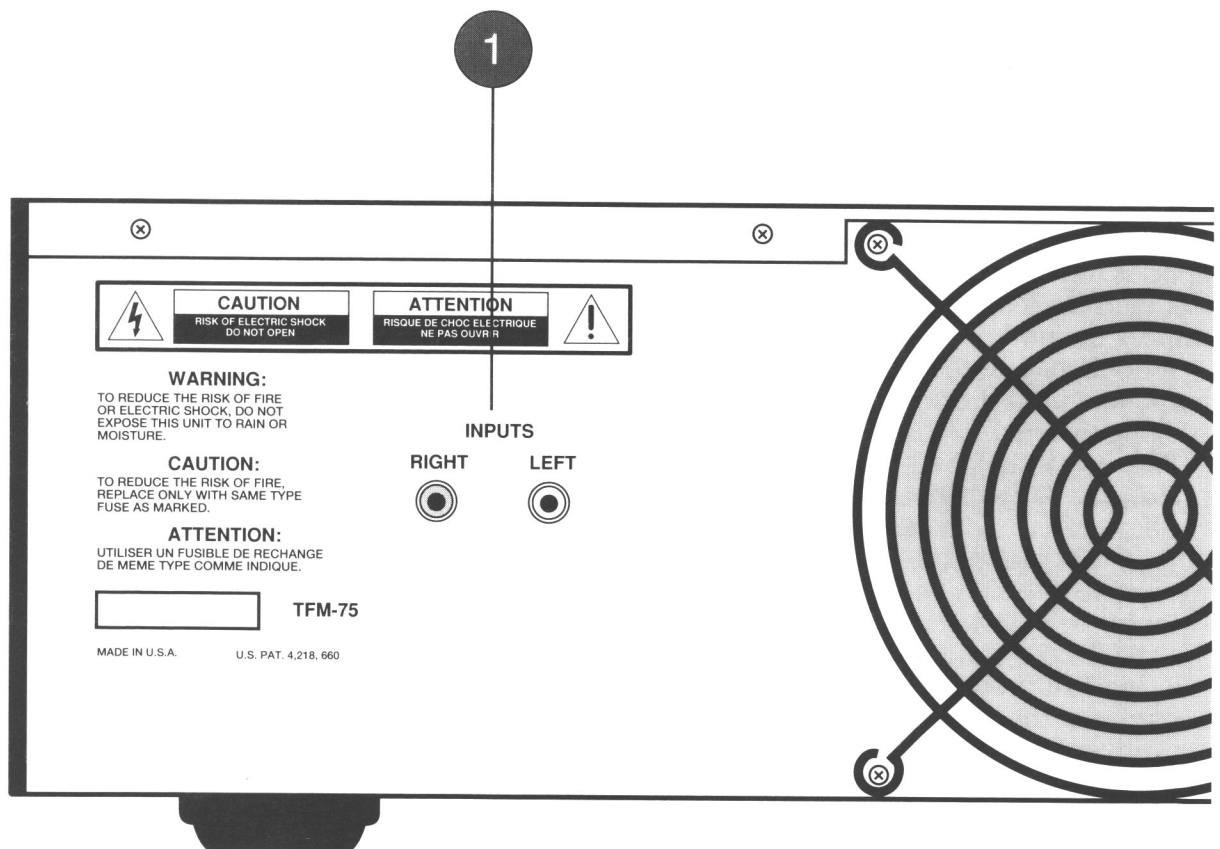
Repeated fuse blowing is a sign of internal distress. Refer to an authorized Carver Service Center.

CAUTION: ALWAYS disconnect BOTH linecords from the AC outlet when removing or replacing fuses.

- 4. POWER CORDS.** Connect to properly configured outlets providing the line voltage specified for your model.

Amplifier Placement

The amplifier can be positioned as part of a "stack" of components if some care is taken. The amplifier's heat dissipation is thermally managed by a continuously variable fan that produces air flow from back to front. Side vents also allow air to move within the chassis, helping to keep power supply components cool. It is essential that intake and exhaust areas of the amplifier be kept clear.



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Do **NOT** place the amplifier on carpeting or any surface that might tend to block its ventilation slots from air circulation.

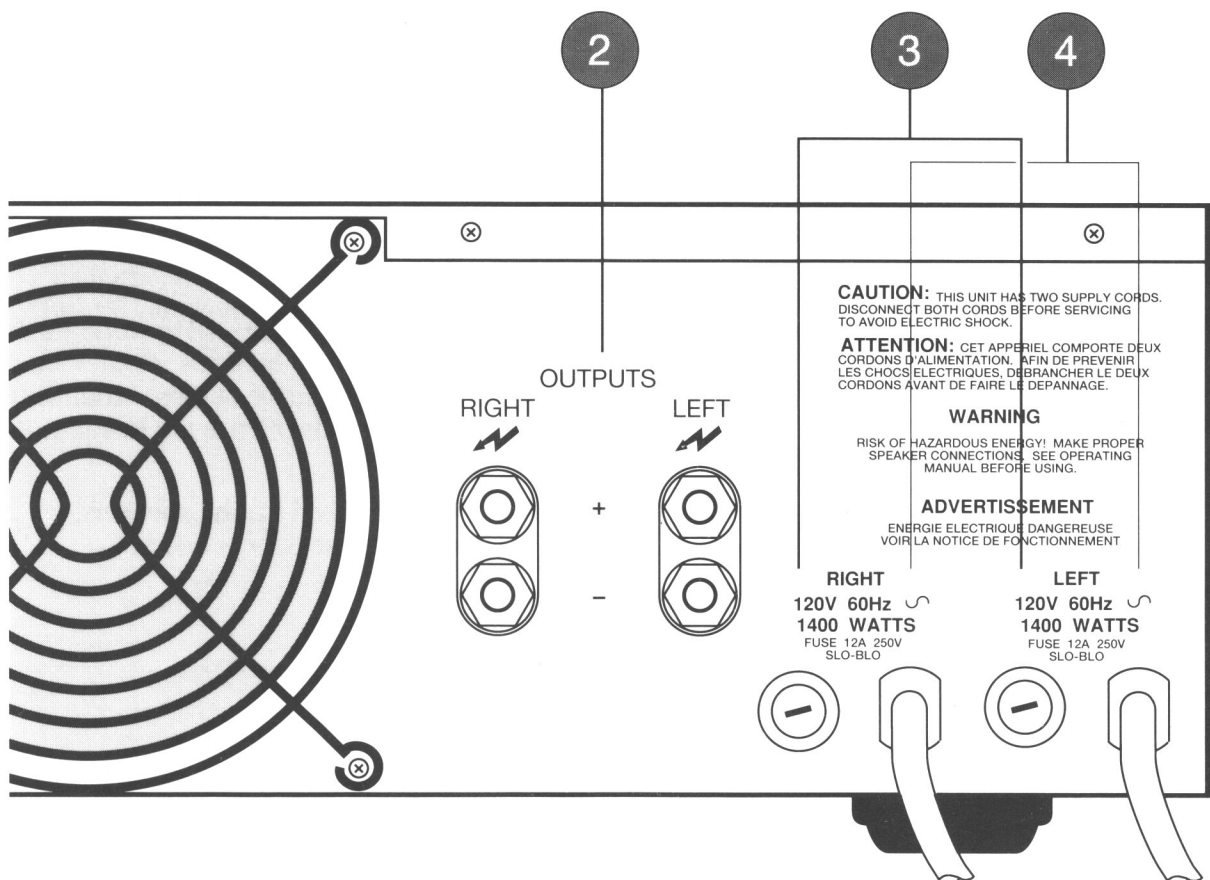
The TFM-75 can be placed in an equipment rack which has adequate ventilation. Be sure that the rack can support the 48 pound weight of the TFM-75. If your shelves do not have open backs, make sure there are vent holes in them. The situation you want to avoid is placing your power amplifier in a sealed cubbyhole. That creates a static air space where temperatures can rise quickly. Do not place other components directly on top of the TFM-75 because its surface can become hot during high power operation.

Connection Tips

- Turn all other components **OFF** before making any connections.
- Make sure that "left is hooked to left and right is hooked to right" at each connection. The obvious way to assure this is to

assign one hook-up cord plug color to left and the other to right. Generally **RED** is used to signify **RIGHT**. White, grey or black then represents left.

- Whenever possible, keep power cords away from signal cables to prevent hum. This is especially important for phono cables which carry very weak signals. The power cords and convenience outlets of Carver components are on the right side of the chassis (when viewed from the back). This allows you to bundle all the power cords and keep them separate from signal connections.
- **Hook-up Cables.** Make sure that the RCA-type cables you use are in good condition. The connectors on these cables must fit snugly in the jacks, particularly on the outside (ground) part. Always insert and remove cables by grasping the connector body, not the cable.



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Amp-to-Preamp Connection

The TFM-75 is designed to be compatible with virtually any quality preamplifier, preamplifier/tuner or surround sound processor. See the *Suggested Hook-Ups* diagram on page 11.

1. Make sure that both channels of the TFM-75 are turned off.
2. Turn the input level controls on the TFM-75 to the minimum position (fully counterclockwise).
3. Use standard audio cables to connect the **RIGHT** and **LEFT CHANNEL** inputs on the rear panel of the TFM-75 to the **RIGHT** and **LEFT CHANNEL** outputs of the preamplifier. It might help to refer to the Owner's Manual for your other components at this point.

Speaker Connections

Wire. Use thick wire for speaker connections. Your Carver dealer can recommend a brand of high quality speaker cable. Please take care in choosing a cable of the right gauge. This will depend on the distance from the TFM-75 to your speakers. Use the following chart as a guide:

WIRE LENGTHGAUGE OF SPEAKER CABLE

Up to 25 ft	16 gauge
25 to 50 ft	14 gauge
50 to 80 ft	12 gauge
80 to 100 ft	10 gauge
Up to 170 ft	8 gauge

Polarity. Loudspeakers must be connected with consistent polarity for correct phasing between them. Incorrect phasing will do no physical harm, but bass response will be diminished. The key is to make sure that both speakers connected to the speaker terminals are hooked up the same way:

“-” at the TFM-75 speaker outputs to “-” on the speaker back, and “+” at the TFM-75 speaker outputs to “+” on the speaker back.

If you're using special speaker interconnects, “+” and “-” will be labeled. If you're using plain appliance-type cable, the two conductors will be identified in one of several ways. They may be different colors (silver vs. gold). One may have fine grooves on its outside. Or one may have a piece of yarn included in one of the conductors (visible after you strip off the insulation). It doesn't matter which one you decide to call “+” or “-”, just do the same for both speakers.

Hook-up. There are two ways to connect your loudspeakers to the binding post speaker terminals on the TFM-75. These binding posts will accept standard single or double banana plugs. These plugs can be attached to the end of the speaker cable, and plugged directly into the TFM-75's binding post sockets. This makes connecting and disconnecting speakers simple and quick.

However, if you expect to hook-up your loudspeakers once and keep them connected that way, you may also attach the speaker cable in the following way:

1. Strip 1/2" of insulation off each wire and make sure to carefully twist all the fine strands together. If even one is loose and can touch the opposite terminal, a short circuit may result.
2. Unscrew the binding post and insert the wire so that all the strands will fit under the insulating cap of the binding post.
3. Match the polarities shown on the binding posts (positive “+” and negative “-”) with the polarities shown on your loudspeakers.
4. Tighten the cap securely. Check to make sure that all strands of wire are inside the connection.
5. After you've hooked up the speakers, double-check your connections.

AC Power Requirements

120V North American. For correct operation of all amplifier and power supply circuitry the lowest and highest AC operating voltage should be within 95 VAC and 135 VAC.

220V-240V European. The lowest and highest AC operating voltage should be within 200 VAC and 260VAC. For correct 230V operation and maximum safety consult the factory at the address shown later in this manual. Unauthorized conversion from 120V to 230V or 230V to 120V will void the manufacturer's warranty.

Warning: Important operating considerations for AC Power supply connections.

The TFM-75 has two separate AC power cords, each supplying power to one amplifier channel. Each connection can draw up to 15 amperes of current, which is the maximum amount that can be supplied by a single 120 volt branch circuit. Therefore, the TFM-75 requires TWO separate, independent branch circuits, one for each AC line cord.

For a typical installation in a sound system, you must be sure that each power cord is plugged into its own separate branch circuit, just as if you were connecting two individual high-power amplifiers. An electrician will refer to these AC branch circuits as "dedicated circuits", because the equipment connected to them (that is, each TFM-75 channel) will draw as much current as the circuit can supply. It follows, then, that no other equipment may be connected to these same circuits because they are already loaded to maximum capacity.

Amplifier Protection

Fusing. The 120V version of the TFM-75 is fused with one slo-blo 12 amp fuse per channel. If necessary, replace with MDA 12 or equivalent. The 220-240V version of the TFM-75 is fused with one slo-blo 8 amp fuse per channel.

Warning: NEVER replace or check the fuse while the TFM-75 is connected to an AC outlet. Be sure both channels of the amplifier are turned off AND unplugged before removing the fuse. If you replace the fuse, be sure you install a fuse of the same type and rating.

Current Limiting. This protection mechanism safeguards the amplifier against very low speaker impedances or short circuits at the speaker output terminals. If the amplifier is driven hard into an impedance less than 2 ohms, or the speaker wires should accidentally short together, the output of the amplifier will be reduced to maintain operation within its Safe Operating Area (SOA).

Activation of this circuit is indicated by illumination of the Clip/Protect LED. If this occurs frequently, check all output connections and loudspeakers. It may become necessary to change the total impedance of the speakers connected to the amplifier.

Thermal. Each amplifier channel is thermally protected by a thermal switch that turns off its power supply. A "thermally out" condition will be indicated by the meter lights going off on the channel that thermally outed. The fan will continue to run off the other channel's power supply, cooling the overheated channel. Keep the fan intake vent clear to maintain optimum thermal performance.

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Excessive High Frequency Limiting.

It is very unlikely this protection feature will ever be activated with normal use. If the amplifier is driven with a continuous sine wave signal greater than 10kHz at or near maximum output level, the amplifier will automatically reduce its output level after a number of seconds. How long it takes this circuit to activate is dependent on the load impedance and frequency. This feature protects the amplifier from continuous high frequency oscillations produced by defective low level equipment.

DC Fault Protection. In the unlikely event that an amplifier channel should fail, a DC fault circuit prevents a potentially destructive amount of DC from damaging the speakers by immediately disconnecting the speakers.

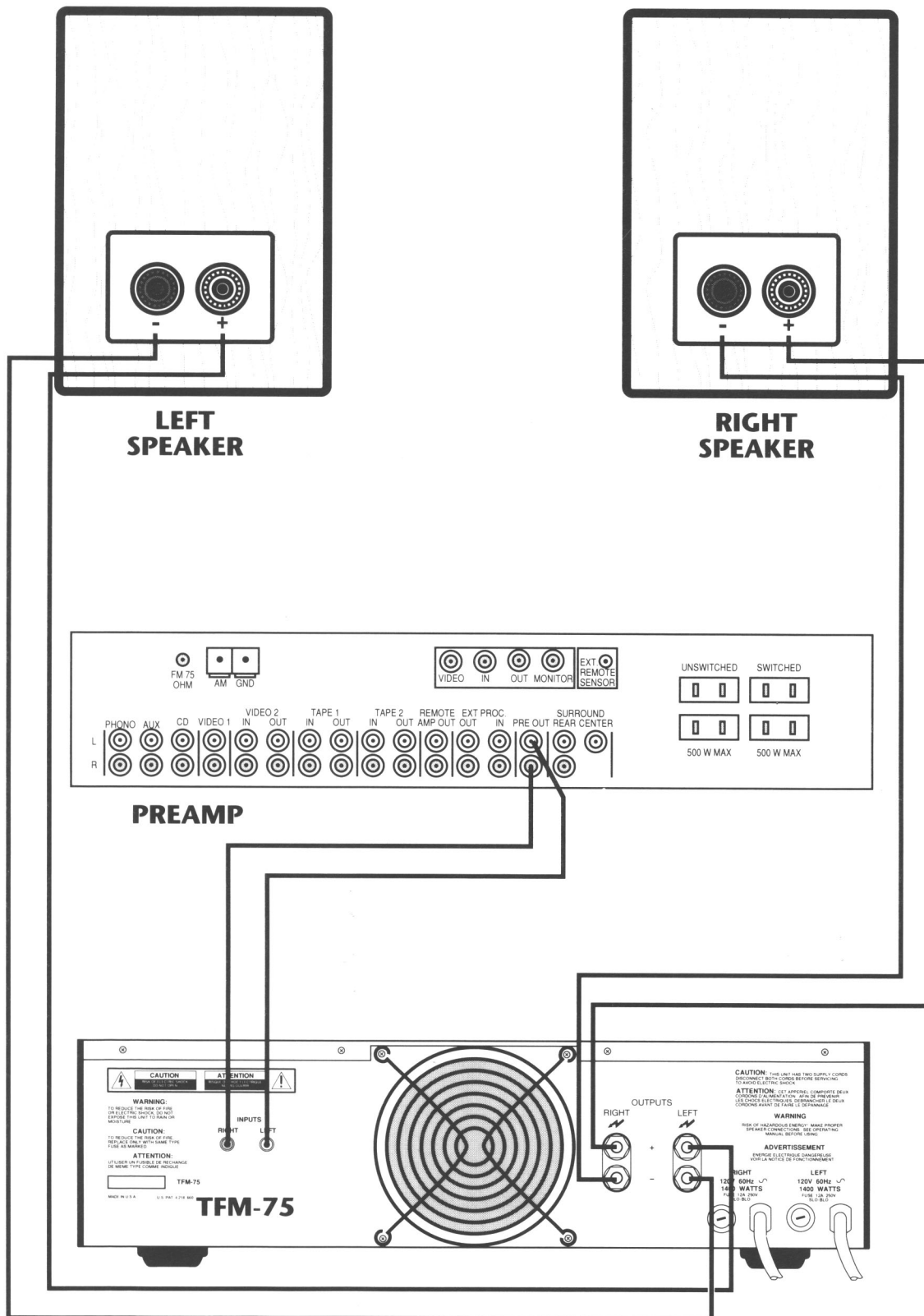
Speaker Protection.

If you are using speakers that do not have a power rating high enough to match the maximum power produced by the TFM-75, we recommend that you install speaker fuses. Use the fuse value recommended by the speaker manufacturer.

⚠ **Note:** The TFM-75 has been designed for home stereo use. Although it has many protection features built in, it is not intended to be used in a commercial, industrial or professional application. Any failure that may occur while being used in an application other than the manufacturer's stated intended use may void the warranty.

System Configuration

Suggested Hook-Up Basic Stereo (2 Channels)



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Operation

Front Panel

1A/1B. Power Switches. The TFM-75's Left Channel Power switch (1A) is located on the bottom left-hand corner of the front panel, and the Right Channel Power switch (1B) is located on the bottom right-hand corner of the front panel.

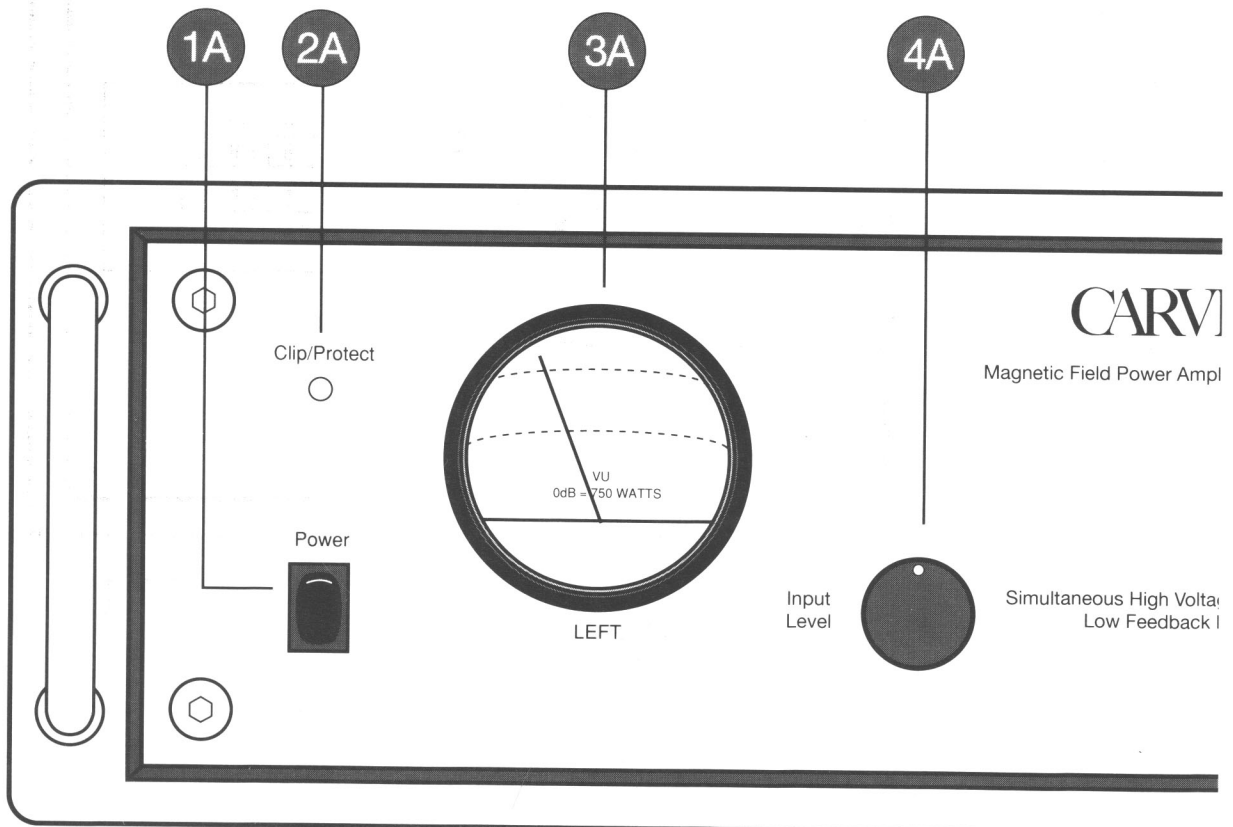
When the TFM-75 is first turned on, the inputs will be muted for about four seconds to allow the amplifier to stabilize. This delay circuit helps prevent speaker-damaging thumps when powering up. We suggest you turn on the amplifier AFTER your have turned on your signal source (CD player, tuner, etc.).

Caution: Make sure that a loud signal source is not playing when the amplifier is turned on.

2A/2B. Clip/Protect LEDs. These LEDs indicate either amplifier clipping or activation of the TFM-75's current limiting protection circuits. If the clip LEDs light when the meters indicate more than full power, it means clipping is occurring. If the clip LEDs light prior to full power indication on the meters, then current limiting is occurring and the total loudspeaker impedance may be too low. If the clip LEDs are on constantly then the output is most likely being driven into a short circuit. Check all output connections and loudspeakers.

3A/3B. Power Meters. The TFM-75 features ballistically-weighted analog power meters that are calibrated in decibels. The main dB scale has a top value of +3dB, with 0dB equal to a continuous power (into 8 ohms) of 750 watts per channel.

The meter ballistics include a fixed amount of overshoot that's standard for this type of metering. So, on much musical material, the meter will often



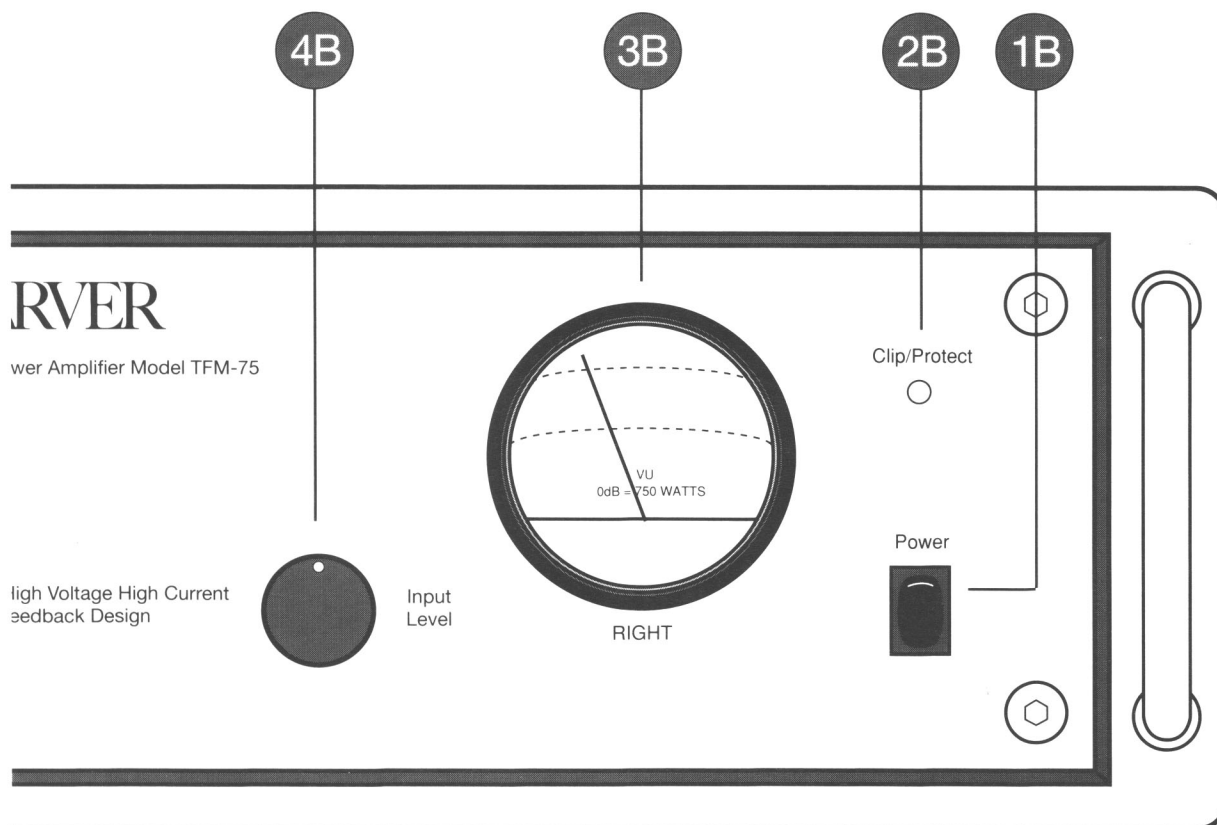
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move past the 0dB level and on to +3dB. Because different musical material reacts differently with the ballistics of the meter, the best way to tell whether the amplifier is overloading is simply to listen. If the sound becomes distorted on musical peaks at the same time the meter is "pegging," you have probably exhausted the TFM-75's power reserves. If this occurs, you should reduce the volume level to prevent the TFM-75's overload protection circuitry from being activated.

4A/4B. Input Level. Use to fine-tune the TFM-75 to your preamplifier. Normally, the level controls are set at the maximum position (fully clockwise).

Using The TFM-75.

1. Turn the TFM-75's **Input Level** controls all the way down.
2. Make sure the volume control on the preamplifier is turned all the way down.
3. Turn on your preamplifier and sound source (such as a CD player) and then turn on both channels of the TFM-75.
4. Carefully turn the **Input Level** controls on the TFM-75 to their maximum position (fully clockwise). Listen for hum or noise. If you hear any hum and noise, consult the "Troubleshooting Guide" on page 14 of this manual.
5. With the preamplifier volume control all the way down, press PLAY on the sound source.
6. S-l-o-o-w-l-y turn up the preamplifier volume control to your "normal" listening level. If the volume increases quickly and you can't rotate the volume knob very far before the sound level gets deafening, turn the TFM-75's **Input Level** controls down about halfway and try again! You will want to choose a level that will give adequate adjustment range on the preamp's volume control.



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In Case of Difficulty

If you're having trouble or suspect a problem with the TFM-75, try some simple troubleshooting before contacting your Carver dealer or an Authorized Carver Service Center. Most likely, the problem lies elsewhere in the system or with a button or control inadvertently left in the wrong position. In a vast majority of situations, the problem can be traced to one of the following:

1. Controls or connections are incorrect.
2. TFM-75 internal protection circuits activated.
3. TFM-75 protection fuse blown.

Nothing lights up on the TFM-75 when the Power switch is turned on.

1. Line cord is disconnected.
2. Poor fit between plug and wall receptacle. Try removing and reinserting the plug.
3. Power is off at the wall receptacle. You can test the wall receptacle by plugging in a lamp or a tester.
4. Power amplifier fuse is blown.

Warning: NEVER replace or check a fuse while the unit is plugged into an AC outlet. The TFM-75 must be turned OFF and unplugged for fuse replacement. Use a fuse of exactly the same rating as the one installed in the unit. If in doubt, contact your dealer.

Amplifier runs at first, then no sound.

1. Heatsink thermal switch senses high temperature. Make sure that the ventilation spaces in the front and rear panels are not blocked.
2. Fuse is blown.

Warning: NEVER replace or check a fuse while the unit is plugged into an AC outlet. The TFM-75 must be turned OFF and unplugged for fuse replacement. Use a fuse of exactly the same rating as the one installed in the unit. If in doubt, contact your dealer.

Sound distorts or volume is low when VOLUME control is turned up.

1. Check speaker wires for a short (bare wire from one connector touching another).
2. Check speakers for damage that may have caused an internal short.
3. Make sure that the TFM-75 is not driving an excessively low impedance speaker (less than one ohm).

No sound at all.

First turn off your stereo system. Check preamplifier-to-power amplifier cable connections.

1. Check the input source to make sure it is working correctly. If the source unit has a headphone jack, you might use a set of headphones to check the operation of the source component.
2. Make sure that all preamplifier controls, especially the TAPE MONITOR button, are correctly set. (A TAPE MONITOR button accidentally pushed in is a frequent cause of total silence.)
3. Make sure that the TFM-75's Input Level controls are turned up.
4. Turn both channels of the TFM-75 off. Check both speaker wire connections to make sure all connections are secure at the amplifier and the loudspeakers.
5. If speaker fuses are installed in the loudspeakers or the speaker cable, verify that they are not blown.

No sound in ONE channel or ONE channel has distorted sound.

1. Check preamplifier's BALANCE control and make sure that it is in the center position.
2. Turn both channels of the TFM-75 off. Then check speaker wire connections by momentarily switching LEFT and RIGHT speaker cables at the amplifier's speaker output terminals. After turning the unit back on, see if the same loudspeaker is dead or distorted. If it is, the fault lies with the speaker cable or the loudspeaker.

If speaker fuses are installed in the loudspeakers or the speaker cable, verify that they are not blown.

3. If, after following step 2, the dead channel DOES switch sides, the problem may be in the TFM-75, the preamplifier, signal source, or connecting cables. You can check for a possible cable problem by substituting a known good set of cables.

Room lights dim slightly during loud musical passages.

Because of the high current requirements of an audio amplifier at the loudest volume levels, this effect is not unusual and should not cause any harm. Be sure both power cords are plugged into outlets operating from different circuit breakers than the one operating the lights (see the **Warning** notice on page 9).

Care and Service Assistance

Care

Make every effort to keep your amplifier away from high external temperatures, moisture and airborne substances that can leave greasy deposits and dust. When panels and covers become dirty, they can be cleaned with a soft cloth slightly moistened with a mild detergent solution. Never use ammonia, abrasive cleansers or strong solvents.

Never short circuit the output terminals of the amplifier. When connecting the loudspeakers, avoid speaker wires touching at the terminals. Do not drop the amplifier. Never replace the fuse with one other than the specified rating. If you suspect a problem, try system troubleshooting first. Frequently, a problem lies elsewhere in the system or even in the connection cables.

Service Assistance

We suggest that you read the LIMITED WARRANTY completely to fully understand your warranty/service coverage. Please promptly complete and return the WARRANTY REGISTRATION CARD. Also be sure to save the sales receipt in a safe place. It will be necessary for warranty service.

If your TFM-75 should require service, we suggest you first contact the dealer from whom you purchased it. Should the dealer be unable to take care of your needs, you may contact the Carver Technical Service Department by writing to the factory address shown at the right. We will then direct you to the nearest in our network of Authorized

Warranty Service Centers or give you detailed instructions on how to return the product to us for prompt action.

If you should have questions or comments, please write to the factory address given below. Please include the model and serial number of your Carver product, your complete address and a daytime phone number.

Factory Address

Carver Corporation Service Department
P.O. Box 1237
Lynnwood, Washington 98046-1237

(206) 775-6245

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Powerful • Musical • Accurate