

**ADCOM
PREAMP
GFT-1A**

ADCOM GFT-1A OWNERS MANUAL

WELCOME

We ask that you thoroughly read this owners manual before turning your Adcom tuner on. (For those in a hurry, please read Sections 1-5).

Your Adcom GFT-1A digital tuner represents the finest value in advanced tuner design. The superior performance of the GFT-1A is the result of a thorough rethinking of high performance concepts in tuner design. Such a product from Adcom is only natural. Throughout its many years in audio, Adcom has always been associated with state-of-the-art components utilizing advanced technology and realistic cost designs. Its innovation and technology have expanded into such varied areas as record care products, speaker systems, and phono cartridges (most recent of which is the new high output crosscoiltm cartridge). This manual represents the same kind of innovative thinking reflected in other Adcom products. We have written it to anticipate the kinds of questions and problems you might encounter in enjoying the full benefits of your Adcom GFT-1A tuner.

SECTION 1 WHAT TO DO WHEN YOU OPEN THE BOX

Before each GFT-1A left the factory, it was carefully inspected for physical imperfections as a routine part of Adcom's systematic quality control. This, along with full electrical testing, should insure a product flawless in both appearance and performance. After you have unpacked the tuner, inspect it for any physical damage. Save the shipping carton and all packing materials as they are designed to reduce to a minimum the possibility of transportation damage. In the unlikely event that damage has occurred, notify your dealer immediately and request the name of the carrier so that a written claim to cover the damages can be initiated.

THE RIGHT TO ANY CLAIM AGAINST A PUBLIC CARRIER CAN BE FORFEITED IF THE CARRIER IS NOT NOTIFIED PROMPTLY AND IF THE

SHIPPING CARTON AND PACKING MATERIAL ARE NOT AVAILABLE FOR INSPECTION BY THE CARRIER. SAVE ALL PACKING MATERIALS UNTIL THE CLAIM HAS BEEN SETTLED.

SECTION 2 WHERE TO PUT IT (AND WHERE NOT TO)

Adequate ventilation will assure a trouble-free life for your tuner. The unit may be mounted either horizontally or vertically. However, it should not be totally enclosed with heat producing components. The rack mount sides allow the GFT-1A to be installed in a 19 inch wide rack. The GFT-1A can be supported by the face plate alone, however, if extensive traveling is going to occur, rear supports should be used.

SECTION 3 WHERE (AND HOW) ALL THE WIRES GO

The GFT-1A is like any other fine tuner. Its ultimate performance relies on the quality and set-up of the FM antenna and, of course, the quality of the broadcast signal. Please read this section carefully, the time invested will be directly returned in improved sound quality. Remember, whenever rear panel connections are being made, the GFT-1A and all associated components should be switched off.

OUTPUTS - Using the quality stereo cable provided, connect the CH A and CH B jacks of your GFT-1A to the appropriate inputs marked "tuner" or "aux" on your integrated amplifier or preamplifier.

FM ANTENNA - Your GFT-1A is provided with a folded dipole antenna. Before the tuner is plugged in, connect this antenna to the terminals marked 300 ohms on the back panel of the tuner. The GFT-1A also can be used with antenna systems designed for 75 ohm co-axial (round) cable. This type of connection is common to many cable systems being used. When a 75 ohm system is being used, the cable should be terminated by an F type plug. This F connector is then connected to the terminal labeled 75 ohms on the rear panel. Please note that the basic folded dipole antenna included with the GFT-1A is a

sensitive antenna which allows for the reception of a large number of FM stations. However, should you find that the dipole is not adequate for your reception needs, please contact your dealer to obtain further information about the variety of antennas that will provide the performance characteristics you require.

AM ANTENNA - The GFT-1A comes with a movable ferrite core for AM reception. This is the bar that protrudes from the rear of the GFT-1A. Simply moving the bar away from the rear of the unit will provide high quality AM reception. Should you find that you are not receiving adequate AM reception, you may make your own AM antenna. This is accomplished by taking one end of a single insulated wire and running it to the highest point on your rooftop and connecting the other end to the rear panel connection labeled AM antenna. Running another insulated wire from the ground terminal on the rear of the GFT-1A and attaching it to a good ground such as the center screw on your AC outlet or a water pipe may also improve AM reception.

AC CONNECTION - With the power switch in the off position, plug the line cord into any outlet furnishing 105 to 125 volts, 50 to 60 Hz.

SECTION 4 HOW THE CONTROLS WORK

POWER - The power switch supplies AC current to the tuner. The GFT-1A frequency readout will come on when the tuner on-off (power) switch is depressed. If this does not occur, either the AC line fuse on the back panel is blown or the tuner is not plugged in. If the fuse is blown, please refer to section 5 of this manual.

FM STEREO INDICATOR LIGHT - In the FM mode, if the GFT-1A is receiving a stereo signal, this indicator will light. The mono/stereo switch must be in the stereo position (disengaged) to receive stereo broadcasts.

MANUAL/AUTO SWITCH - This control selects the tuning mode of operation.

It is used with the tuning buttons located directly below the display. During manual operation (button depressed) each press of either button will increment the display one frequency. The tuner will stop and hold at this frequency even if there is no station broadcasting. If either of the two tuning buttons are depressed and held, the tuner will count in that direction until the button is released. In the auto mode, touching either tuning button will cause the tuner to search in that direction until it senses a station. It will then stop on that station and lock.

DISPLAY - The lighted readout displays the tuned frequency and whether you have selected AM or FM reception. (When the GFT-1A is first turned on, the display may show a frequency that is not available in either the AM or FM mode operation. This frequency will disappear once you tune or select a station that has previously been stored in the tuners memory).

TUNING - The two tuning buttons let you select the direction of tuning by depressing either the left button for a lower frequency, or the right tuning button for a higher frequency. When the auto/manual switch is in the auto mode, the tuner will scan in the direction indicated by the tuning button depressed. In the manual mode, the tuner will step through each frequency. When either of the tuning buttons are depressed and held the tuner will continue to scan until the button is released.

MEMORY - The GFT-1A has the ability to store 8 AM and 8 FM stations. To store a station in memory:

- 1) Tune to the desired station.
- 2) Press the enter button. (Its indicator light will light to show it is ready to put a station into memory).
- 3) Press the desired memory location button.

The memory will be maintained even if the tuner is disconnected from AC power.

SIGNAL STRENGTH - This display indicates the relative signal being

received by the GFT-1A. The higher the number, the better the signal. You should orient your antenna so that the signal strength indicators are at their highest number.

HI BLEND - The high blend switch reduces the noise received by weak stereo signals. FM stereo has a unique property in that the majority of noise is out of phase information. This switch reduces the amount of high frequency separation between the left and right channels and in doing so reduces noise without sacrificing fidelity.

REC CAL - The record calibration switch provides a tone at the output that is exactly equivalent to 50% modulation. (This level is -3dB from the loudest signal an FM station can legally broadcast). This calibration tone can be used to set the record levels on your tape recorder for off-the-air recording. Your tape recorder should be adjusted to show "0"VU with this tone. Then when you record off a station you will have the confidence of knowing that the signal will not overload your recorder.

MUTE - The GFT-1A provides a muting circuit to reduce interstation noise which occurs as you tune from station to station on the FM band. The mute will not allow very weak stations to be received. Should you desire to receive a station that the mute circuit does not allow to pass through the tuner, depressing the mute switch will defeat the muting circuit and allow weak stations to be received.

MODE - This switch allows you to manually switch the GFT-1A into the mono mode if an FM stereo program is weak or noisy. Under most conditions leaving the tuner in the stereo mode will allow the tuner to choose either stereo or mono depending on the level and quality of signal being broadcast.

AM/FM - This switch selects AM or FM reception from the GFT-1A. Your selection is indicated on the display.

SECTION 5 THE CARE AND FEEDING OF YOUR GFT-1A

Great care has been taken by Adcom to assure that your tuner is as flawless in appearance as it is electronically. The panel is finished with a high grade black anodized aluminum, chosen for its durability as well as its beauty. If it should become finger-printed or smeared, it can be cleaned best by using a soft cloth dampened with a solution of liquid detergent and water.

UNDER NO CIRCUMSTANCES SHOULD A STRONG OR ABRASIVE CLEANER SUCH AS SCOURING POWDER OR OVEN CLEANER BE USED ON ANY PART OF THE TUNER.

The tuner is protected by an AC line fuse on the rear panel. When power is switched on and the digital display on the front panel does not illuminate, shut off the tuner, unplug the AC line cord from the power source, and check the fuse. If the fuse has opened, replace only with a fuse of equal value.

Replacement with an incorrect fuse or one of a higher current rating will not protect the tuner and will void the warranty.

If after replacing the fuse, it blows immediately, an electronic component failure must be suspected. No further attempts to replace the fuse should be made.

SECTION 6 IF YOU HAVE A PROBLEM OR QUESTION

The following check list will assist in the correction of most problems you may encounter with your tuner. Before looking through this list, check your connections by using the wiring diagram on the last page of this manual. If the AC cord is plugged in and no lights appear on the front panel when the power switch is depressed, the fuse on the rear panel of the GFT-1A should be inspected. If the fuse is open, please refer to Section 5 of this manual for proper replacement procedure.

<u>SYMPTOM</u>	<u>POSSIBLE CAUSE AND SOLUTION</u>
No Audio Output	-AC linecord not plugged in -Poor connections between amplifier and tuner. Make sure all plugs are pushed all the way in.
Auto scan won't stop	-Antenna not properly connected. Check your connections -Record calibration button depressed. A steady tone will be heard if volume is turned up.
Stereo indicator won't light	-Stereo/mono switch depressed -Station is broadcasting in mono -Distant station too weak to be received in stereo
Buzzing sound with program	-Weak signal being received. Adjust FM antenna or install an outdoor FM antenna -On AM band, florescent lights or electrical appliances will cause interference. Try a homemade AM antenna as described in Section 3 -Automobile ignition noise Locate an outdoor antenna away from heavy traffic. Use shielded coaxial cable as the lead in wire from an outside antenna
Signal Strength meter unstable	-Antenna not oriented correctly. Try a different positioning for optimum signal strength. NOTE: This problem is occasionally accompanied by a motor-boat sound. If no improvement can be made on reception by reorienting the antenna, deactivate the muting function by depressing the mute switch.

Adcom's technical service department is available to answer all questions pertinent to the installation and operation of your unit. Please feel free to write us in the event of any difficulty. If your problem can not be resolved through our combined efforts, we

may wish to refer you to a near-by authorized repair agency or we may prefer to authorize return of your tuner to Adcom. To aid us in directing you to a convenient service station, it would be helpful if you would indicate which major city is accessible to your home.

Please address inquiries to:

Adcom Technical Service Department
11 Elkins Road
E. Brunswick, NJ 08816
(201) 390-1130

Be sure to include the serial number of your unit, date of purchase, and the name and address of your dealer.

In the event that your GFT-1A must be returned, a return authorization number will be forwarded to you. This authorization number must be noted on outside label and any communication regarding the return of this unit.

UNDER NO CIRCUMSTANCES SHOULD YOUR UNIT BE SHIPPED TO ADCOM WITHOUT PRIOR AUTHORIZATION, OR WITHOUT ORIGINAL PACKING CARTON AND FILLERS.

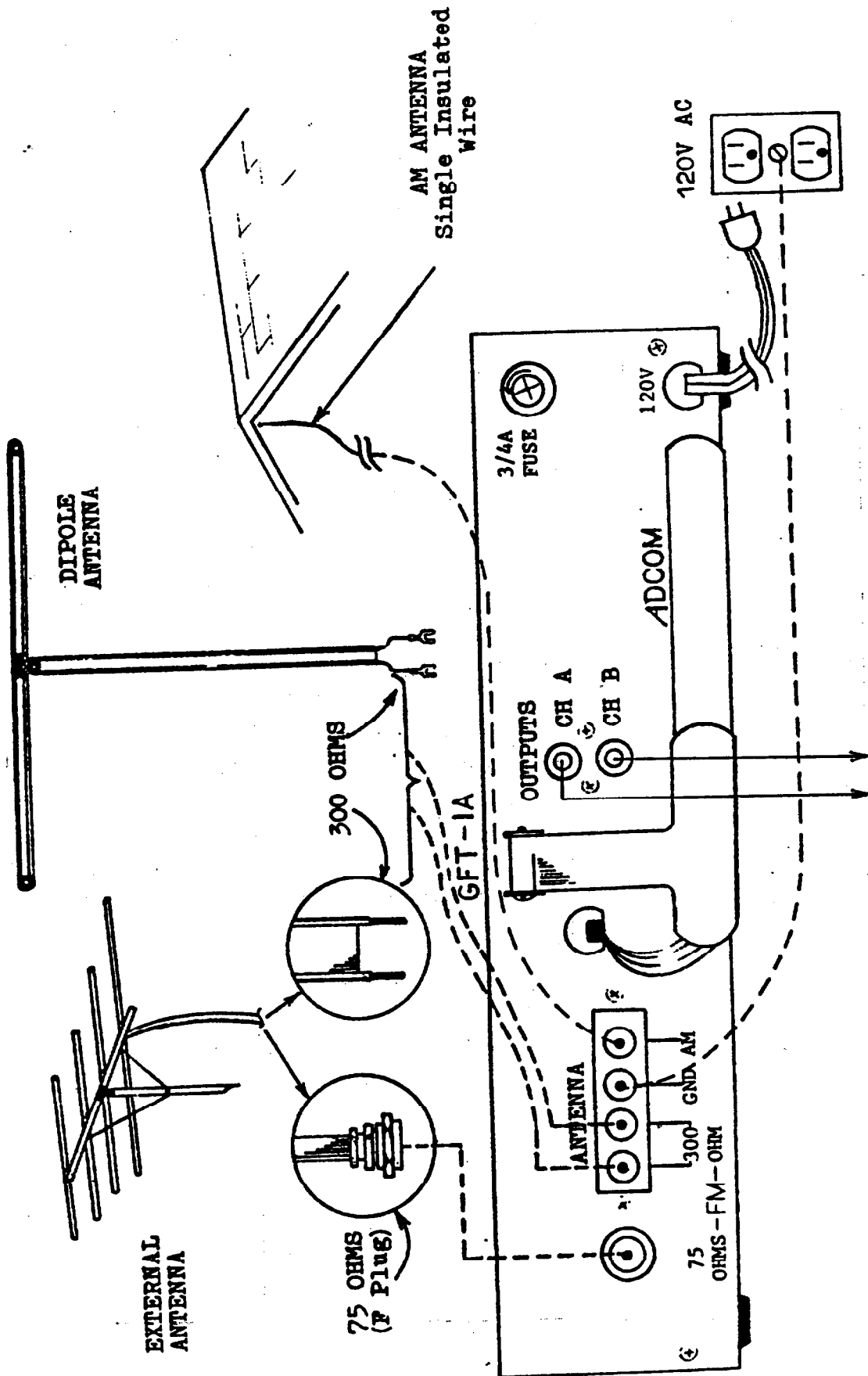
All Parcel Post shipments will be refused. Collect shipment can not be accepted. If the original shipping carton has been lost or discarded, or if the carton is not in good condition, a duplicate carton may be obtained from our service department for a nominal fee.

Always ship your unit prepaid via a recognized surface or air freight carriers. Suggested carriers will be recommended when you request a return authorization. Do not ship via Parcel Post, since the packing will not withstand rough mail handling.

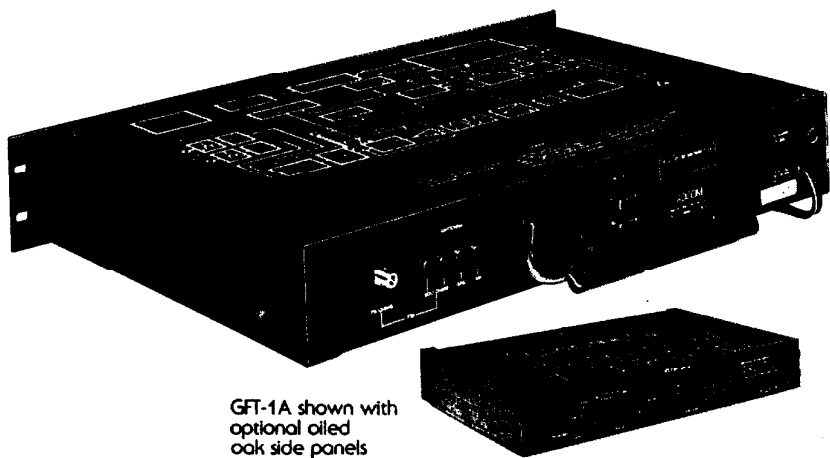
SECTION 7 ADCOM PROTECTION PLAN (U.S.A. ONLY)

In order to keep the selling price of your GFT-1A at the lowest possible level, Adcom offers the enclosed one year LIMITED WARRANTY at no additional cost, and an optional two year extension service agreement (total three years) for a modest additional fee. Please read the details on the extended warranty envelope and standard

warranty card carefully to understand fully the extent of the protection offered by our warranty, its limits, and what responsibilities are required of you in order to obtain its benefits.



TO INTEGRATED AMP OR
PREAMP 'TUNER' OR
'AUX' INPUTS



GFT-1A shown with optional oiled oak side panels

GFT-1A

Stereo tuner

SPECIFICATIONS

The Adcom GFT-1A is an exceptional instrument of sophisticated design. It employs the latest in tuner technology to assure superlative performance and unsurpassed ease of operation.

The heart of the GFT-1A is a quartz-referenced, digitally synthesized tuning system that achieves tuning accuracy of 0.00025%. Once you've tuned to a station, it's locked in. No drift. No error. Just touch a button to scan up or down to the station of your choice. Or, if you prefer, you can easily program the GFT-1A to store up to sixteen stations, eight FM and eight AM. A simple touch of a button precisely retrieves and tunes the desired station and a built-in lithium battery constantly charges the memory, preventing accidental erasure by power failures or during transportation. The frequency tuned appears on a bright, easy to read, blue fluorescent display.

But tuning ease and accuracy were not the only, or even the most important, design considerations. Our basic objective was to optimize sonic performance, and specifications alone can not define how a tuner sounds.

For example, the circuitry associated with digital synthesis tends to raise the background noise level of a tuner. To avoid this problem, a special application of computer fabrication technology was devised (including the use of ribbon wire and heavy-duty shielding) to prevent digital pulses from "leaking" into the high gain stages of the tuner's front end. Thus eliminating the source of synthesizer noise and distortion, a typical limitation in other designs.

Similarly, we did not set out to build the world's "hottest" tuner. Instead, we willingly sacrificed extreme sensitivity for greater selectivity and broad bandwidth transient response, audibly improving the reception quality of fringe area and strong local stations.

Matching the Adcom GFT-1A's outstanding performance are a number of thoughtful features which make tuner operation a sheer joy. A five stage LED display indicates the strength of incoming signals and a built-in record level oscillator delivers a 400 Hz test tone at 50% FM modulation permitting you to set tape deck levels. Additionally, a high blend switch enables you to reduce out-of-phase, high frequency noise in difficult reception conditions, and a muting switch suppresses inter-station noise during tuning.

Usable sensitivity: 9.8dBf
50dB quieting (mono) 17.2dBf
(stereo) 34.7dBf

Signal to noise ratio: (mono) 80dB
(stereo) 75dB

Total harmonic distortion: 0.08%
(mono at 1KHz, 100% modulation)
0.1% (stereo at 1KHz, 100% modulation)

Capture ratio: 1.0dB

Alternate channel selectivity: 85dB

Image rejection: 75dB

IF rejection: 80dB

Spurious response rejection: 80dB

AM rejection: 50dB

Stereo separation: 55dB at 1KHz

Output level: 500 mV @ 100% modulation

Antenna impedance: 300 ohms or 75 ohms

AM usable sensitivity: 25 μ V

AM alternate channel selectivity: 35dB

AM image rejection: 40dB

Dimensions: 19"W x 3"H x 11 $\frac{1}{2}$ "D

Shipping weight: 15 lbs./7 Kg.

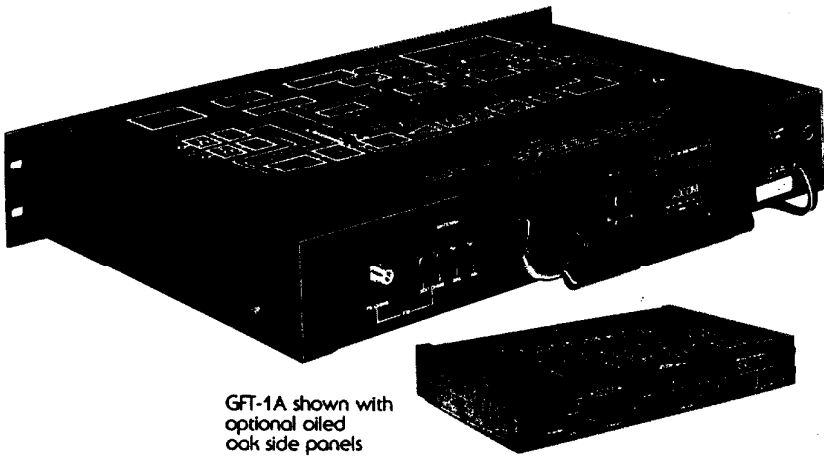
Power requirements: 17 Watts @ 110-120 V, 60Hz*

*230V, 50Hz version available on special order

ADCOM[®]
the stereo components

9 Jules Lane, New Brunswick, New Jersey 08901 U.S.A. (201) 828-8590 TELEX: 844430

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