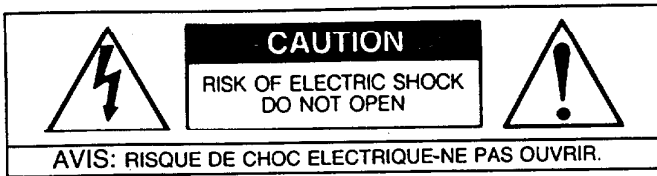


**ADCOM<sup>®</sup>**  
**TUNER/PREAMP**  
**GTP-500II**

THE FOLLOWING PRECAUTIONS AND SAFETY INSTRUCTIONS  
ARE REQUIREMENTS OF UL AND CSA SAFETY REGULATIONS

Warning: To reduce the risk of fire or electric shock, do not expose this unit to rain or moisture.



The graphic symbol of a lightning flash with an arrow point within a triangle signifies that there is dangerous voltage within the unit and it poses a hazard to anyone removing the cover to gain access to the interior of the unit. Only qualified service personnel should make any such attempt.



The graphic symbol of an exclamation point within an equilateral triangle warns a user of the device that it is necessary to refer to the instruction manual and its warnings for proper operation of the unit.



Do not place this unit on an unstable cart, stand, tripod, bracket, or table. The unit may fall, causing serious injury to a child or adult, and serious damage to the unit. Use only with a cart, stand, tripod, bracket, or table recommended by the manufacturer, or sold with the unit. Any mounting of the device should follow the manufacturer's instructions, and should use a mounting accessory recommended by the manufacturer.

Read all the safety and operating instructions before connecting or using this unit.

Retain this notice and the owner's manual for future reference.

All warnings on the unit and in its operating instructions should be adhered to.

All operating and use instructions should be followed.

Do not use this unit near water; for example, near a bathtub, washbowl, kitchen sink, laundry tub, in a wet basement, or near a swimming pool.

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

The unit should be situated away from heat sources such as radiators, heat registers, stoves, or other devices (including amplifiers) that produce heat.

The unit should be connected to a power-supply outlet only of the voltage and frequency marked on its rear panel.

The power-supply cord should be routed so that it is not likely to be walked on or pinched, especially near the plug, convenience receptacles, or where the cord exits from the unit.

Clean unit only as recommended in its instruction manual.

The power-supply cord of the unit should be unplugged from the wall outlet when it is to be unused for a long period of time.

Care should be taken so that objects do not fall, and liquids are not spilled, into the enclosure through any openings.

This unit should be serviced by qualified service personnel when:

- The power cord or the plug has been damaged; or
- Objects have fallen, or liquid has been spilled, into the unit; or
- The unit has been exposed to rain, or liquids of any kind; or
- The unit does not appear to operate normally, or exhibits a marked change in performance; or
- The device has been dropped, or the enclosure damaged.

**DO NOT ATTEMPT SERVICING OF THIS UNIT YOURSELF.  
REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.**

ATTENTION

POUR PRÉVENIR LES CHOCS ÉLECTRIQUES NE PAS UTILISER CETTE FICHE POLARISÉE AVEC UN PROLONGATEUR, UNE PRISE DE COURANT OU UNE AUTRE SORTIE DE COURANT, SAUF SI LES LAMES PEUVENT ÊTRE INSÉRÉES À FOND SANS EN LAISSER AUCUNE PARTIE À DÉCOUVERT.

CAUTION

TO PREVENT ELECTRIC SHOCK DO NOT USE THIS POLARIZED PLUG WITH AN EXTENSION CORD, RECEPTACLE OR OTHER OUTLET UNLESS THE BLADES CAN BE FULLY INSERTED TO PREVENT BLADE EXPOSURE.

CAUTION

POWER LINES

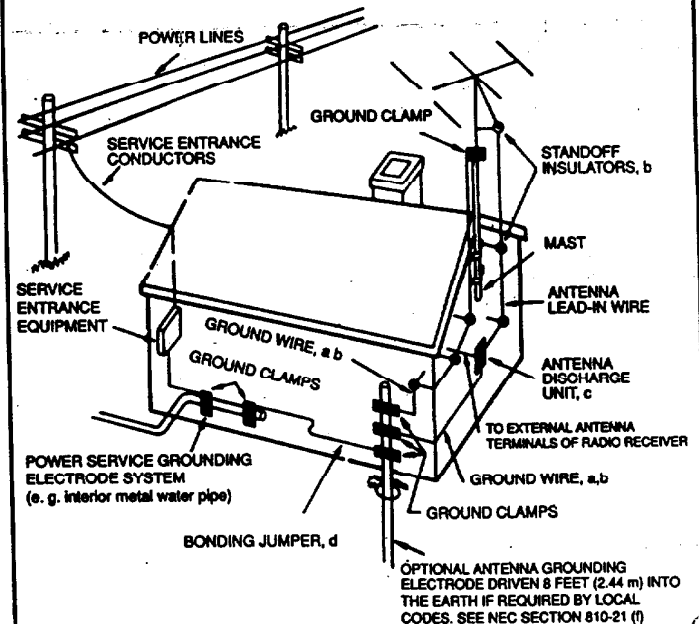
Any outdoor antenna must be located away from all power lines.

OUTDOOR ANTENNA GROUNDING

If an outside antenna is connected to your tuner or tuner-preamplifier, be sure the antenna system is grounded so as to provide some protection against voltage surges and built-up static charges. Section 810 of the National Electrical Code, ANSI/NFPA No. 70-1984, provides information with respect to proper grounding of the mast and supporting structure, grounding of the lead-in wire to an antenna discharge unit, size of grounding conductors, location of antenna discharge unit, connection to grounding electrodes, and requirements for the grounding electrode.

- Use No.10 AWG (5.3 mm<sup>2</sup>) copper, No.8 AWG (8.4 mm<sup>2</sup>) aluminum, No.17 AWG (1.0 mm<sup>2</sup>) copper-clad steel or bronze wire, or larger, as a ground wire.
- Secure antenna lead-in and ground wires to house with stand-off insulators spaced from 4-6 feet (1.22-1.83 m) apart.
- Mount antenna discharge unit as close as possible to where lead-in enters house.
- Use jumper wire not smaller than No.6 AWG (13.3 mm<sup>2</sup>) copper, or the equivalent, when a separate antenna-grounding electrode is used. See NEC Section 810-21 (j).

EXAMPLE OF ANTENNA GROUNDING AS PER NATIONAL ELECTRICAL CODE INSTRUCTIONS CONTAINED IN ARTICLE 810 - RADIO AND TELEVISION EQUIPMENT.



NOTE TO CATV SYSTEM INSTALLER

This reminder is provided to call the CATV system installer's attention to Article 820-22 of the National Electrical Code that provides guidelines for proper grounding and, in particular, specifies that the cable ground shall be connected to the grounding system of the building, as close to the point of cable entry as practical.

# ADCOM GTP-500II OWNERS MANUAL

## WELCOME

We ask that you thoroughly read this owners manual before turning on your ADCOM GTP-500II Tuner-Preamp.

Your ADCOM GTP-500II incorporates some of the most advanced thinking in contemporary product design. The superior performance of the GTP-500II is the result of a thorough re-evaluation of all concepts affecting performance in both tuners and preamplifiers. Some of the outstanding features of this product are:

- Wireless remote control operation (using the ADCOM RC-500II Remote Transmitter).
- Interface for the optional ADCOM XR-500II and SPM-500II Remote Sensor for remote control operation of the GTP-500II from various locations in your home.
- Direct, on-chassis selector switching that avoids long signal paths and assures high reliability.
- Separate "Recording" and "Listening" controls that allow you to listen to one input while taping from a different input. For example, you can record from your CD Player and at the same time listen to the Tuner.
- A choice of Direct coupled and Capacitance coupled Main Outputs to optimize the signal into virtually any amplifier, or two amplifiers if desired.
- A sophisticated Contour circuit that provides loudness compensation for low and moderate listening levels.
- Digitally synthesized AM/FM Tuner section with eight FM and AM station memory.

Other useful features and benefits are described in the following pages. We sincerely hope that you will appreciate and enjoy the attention that we have given to these details. This manual has been written to anticipate the kinds of questions that you may have while enjoying your ADCOM GTP-500II. Please read it carefully to fully understand all of the features offered and how they can be used in your audio system.

## SECTION 1

### WHAT TO DO WHEN YOU OPEN THE BOX

Before each GTP-500II 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 and mechanical testing, should insure a product flawless in both appearance and performance. After you have unpacked the GTP-500II, inspect it for physical damage. Save the shipping carton and all packing materials, as they are essential to reduce to a minimum the possibility of transportation damage should the product ever need to be shipped again. 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 shipping damage 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 MATERIALS ARE NOT AVAILABLE FOR INSPECTION. SAVE ALL PACKING MATERIALS UNTIL THE CLAIM HAS BEEN SETTLED.

## SECTION 2

### WHERE TO PUT IT (AND WHERE NOT TO)

Although the GTP-500II does not generate much heat, you will insure its long-term, trouble-free operation if you keep it away from external sources of heat, such as radiators or hot-air ducts, and provide reasonable ventilation. The GTP-500II should never be placed with other heat-producing components in a cabinet or enclosure lacking free air-flow.

For use in professional installations, the GTP-500II may be mounted in a standard 19-inch rack using the optional RM-3 rack mount adaptors available through ADCOM dealers.

## SECTION 3

### WHERE (AND HOW) ALL THE WIRES GO

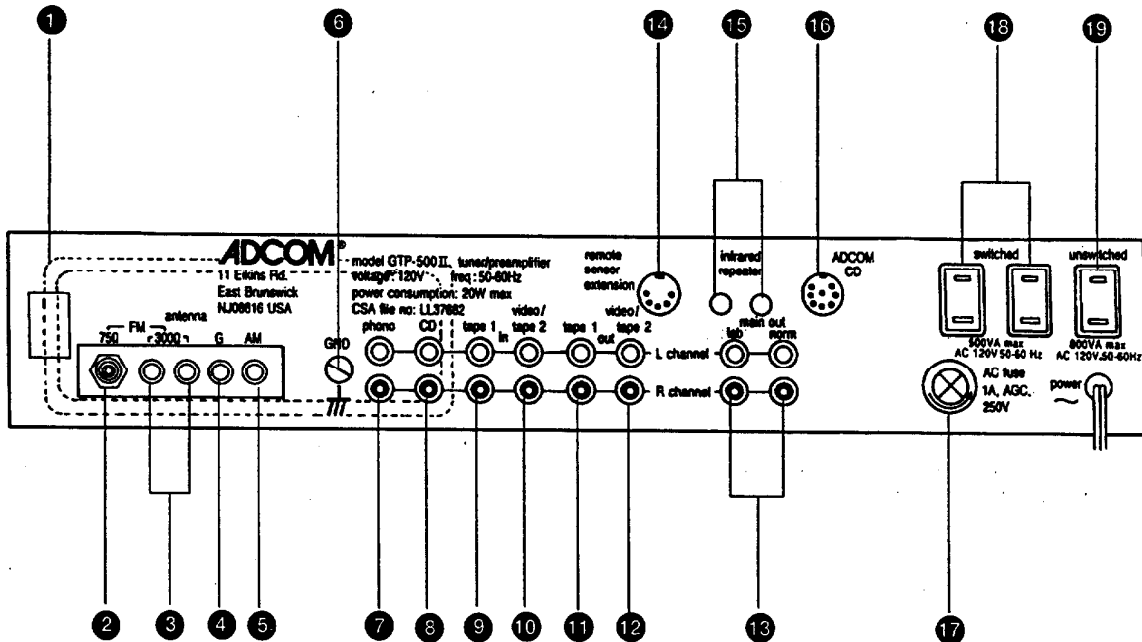
Please refer to the drawing below for a diagram of the rear panel connections on the GTP-500II.

The ultimate performance of the GTP-500II depends on the quality and set-up of both the Tuner-Preamp and its associated equipment. All rear panel input and output signal connections should be made with high quality coaxial cables (RCA-phono type). Left and right channel inputs and outputs are clearly labeled.

#### NOTE

Whenever rear panel connections are being made, the GTP-500II and all associated components must be switched OFF.

### Back Panel Connections



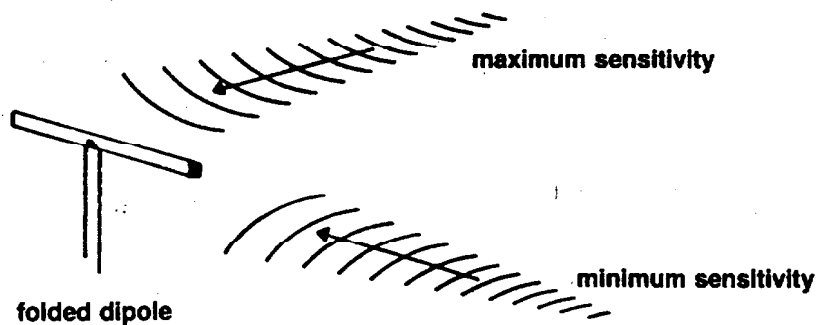
### AM ANTENNA ①, ④ & ⑤

The GTP-500II comes with a movable ferrite loop for AM reception ①. The ferrite loop is connected to the GTP-500II by attaching one wire to the terminal marked AM ④ and the other wire to the terminal marked G ⑤. Simply swinging this loop out, away from the back panel of the GTP-500II will provide reasonable AM reception. Should you find that you are not receiving adequate AM reception, you may make your own AM antenna from a length of insulated wire. This is accomplished by taking one end of single insulated wire and connecting it to the terminal on the rear panel of the GTP-500II marked AM ⑤. This wire may then be run to a high point in your home or hung out of a nearby window. Running another insulated wire from the G (ground) terminal ④ on the rear panel of the GTP-500II to a good ground (such as a water pipe) may also improve AM reception.

### FM ANTENNA ② & ③

The GTP-500II is provided with a folded dipole wire antenna. Before the tuner is plugged in, connect this antenna to the terminals marked 300 ohms ③ on the back panel. The GTP-500II may also be used with antenna systems designed for 75 ohm co-axial (round) cable. This type of connection is common to many cable systems. When a 75 ohm system is being used, the cable should be terminated by an "F"-type connector. This "F" connector is then connected to the terminal labeled 75 ohms ② on the rear panel of the GTP-500II.

The basic folded dipole antenna included with the GTP-500II allows for the reception of FM stations which are reasonably close. The "T" portion of the wire should be fully extended and rotated (oriented) for best reception. The antenna will not function well if it is rolled up or casually dropped behind the unit. 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 antennae that will



provide the performance characteristics you require.

### GROUND TERMINAL (GND) ⑥

Most turntables use a separate ground wire to help eliminate hum. If your turntable is equipped with this wire, connect it to the terminal labeled GND on the rear panel of the GTP-500II Tuner-

#### NOTE

IT IS STRONGLY RECOMMENDED THAT WHENEVER YOU ARE USING ONE OF THE REMOTE SENSORS FOR THE GTP-500II (XR-500II AND SPM-500II) YOU CONNECT THIS TERMINAL TO A GOOD EARTH OR GROUND CONNECTION SUCH AS THE CENTER, FIXING SCREW ON YOUR AC-OUTLET WALL PLATE. YOU MAY ALSO FIND IT ADVANTAGEOUS TO CONNECT THIS TERMINAL TO A GOOD EARTH CONNECTION IN AREAS WITH HIGH RF INTERFERENCE, IF YOU EXPERIENCE STATIC DISCHARGES IN THE WINTER, OR IF YOU EXPERIENCE HUM OR INTERFERENCE ON PHONO, AM, ETC.

## **PHONO INPUT ⑦**

This input is designed to receive the output from the cartridge of your turntable. The phono input jacks accept the standard RCA-type phono plugs, one for each channel. This input will accommodate any high output moving coil, moving magnet, induced magnet, moving flux, or moving iron (variable reluctance) cartridges whose output is 2.2 millivolts or higher. It will not accept low output moving coil cartridges unless a separate step-up device (transformer or head-amp) is employed. The electrical characteristics of the input are the standard 47,000 ohms with a 100pF shunt capacitance.

## **CD INPUT ⑧**

This set of input jacks is for a Compact Disc (CD) Player. This input may also be used for any other high level signal such as a tape player, or the audio signal from a videodisc player or video cassette recorder (VCR).

## **TAPE INPUTS AND OUTPUTS ⑨ , ⑩ , ⑪ & ⑫**

Two full tape circuits are provided on the GTP-500II. To connect a tape deck to the TAPE 1 circuit, use the following procedure: The Left and Right channel OUTPUTS of the tape deck are connected by audio cables to the jacks labeled TAPE 1 IN ⑨ on the GTP-500II. The INPUTS of the tape deck are connected to the jacks labeled TAPE 1 OUT ⑪ on the GTP-500II. If you are using a second tape deck, follow the same procedure for the jacks labeled VIDEO/TAPE 2 IN ⑩ and VIDEO/TAPE 2 OUT ⑫ on the GTP-500II.

## **MAIN OUTPUTS LAB OR NORMAL ⑬**

The GTP-500II was designed with an output voltage ideally matched for operation with all ADCOM power amplifiers. However, it is eminently suited to drive most other stereo power amplifiers or a pair of monophonic power amplifiers. If two monophonic amplifiers are used for stereo, it is strongly suggested that they be a matched pair. Either of the MAIN OUTPUTS are clearly marked for the connections to the Left and Right channels of the power amplifier being used.

The MAIN OUTPUTS, labeled LAB and NORM, make it possible to use the GTP-500II with many different types of power amplifiers. The difference between the two outputs is as follows: The LAB Output is Direct coupled and the NORM Output is Capacitance coupled. The direct coupled LAB output may be used with power amps such as the ADCOM models which are able to handle signals of extremely wide bandwidth. Simply stated, the purest sound can be derived from the LAB output since there are no capacitors at the output to filter out musical information. However, some amplifiers may have protection circuits which are unable to handle such a wide band signal. For this reason we have provided the NORM outputs, which roll off frequencies below 10Hz.

## **REMOTE SENSOR EXTENSION ⑭**

This 5 pin DIN jack is for use with the ADCOM XR-500II or SPM-500II Remote Sensors (available as an optional accessory). This allows the GTP-500II to be operated by the ADCOM RC-500II Remote Transmitter in various locations throughout your home. The Remote Sensors, a selection of connecting cables, and additional RC-500II Remote Transmitters are available as options. Ask your ADCOM dealer or write to our Technical Service Dept. for details.

## **INFRARED REPEATER ⑮**

These jacks are for the purpose of adding two ADCOM IRA-500II Infrared Repeater Assemblies to the GTP-500II remote system. The IRA-500II allows you to operate other infrared remotely controlled products you own, such as tape decks or VCRs, through the XR-500II or SPM-500II Remote Sensors. The IRA-500II must be placed in close proximity to the sensor window of the product that you wish to activate through the ADCOM Remote Sensors.

The IRA-500II has been designed to either lay on its side or edge or to be affixed directly to the front panel of your remote control product. For optimal remote operation of the accessory you wish to control, some experimentation may be necessary when positioning the IRA-500II near or on the

front panel of the product. The GTP-500II will accept two IRA-500II Infrared Repeater Assemblies.

To use the repeater function of the GTP-500II, simply aim the hand held remote control for the (other than ADCOM) unit you wish to operate at either the XR-500II or the SPM-500II. The command from the remote control will be repeated at the IRA-500II in front of the sensor window of your product, activating the function that you have selected.

### **ADCOM CD PLAYER CONNECTION 16**

This 8-pin DIN jack is for direct connection to the ADCOM GCD-575 CD Player via the ADCOM connector cable DIN-575. This connection permits infrared remote operation of the basic functions of the GCD-575 with the RC-500II Remote Control.

### **FUSE 17**

The AC Line Fuse for the GTP-500II is a 1-ampere AGC fuse. This fuse does NOT protect the AC Accessory outlets 18 & 19. This fuse should only be replaced with a fuse of the same type and rating. Replacement with a fuse of higher value and/or different rating will not protect the Tuner-Preamp, will void the warranty and may cause a fire hazard. (See Section 6)

### **AC ACCESSORY OUTLETS 18 & 19**

The AC line cords of other stereo components may be plugged into the accessory outlets. The Switched outlets 18 allow you to turn on and off the components plugged into these positions with the GTP-500II power switch. The Unswitched outlet 19 is always supplying power to the component plugged into it. The component plugged into this position should be turned on and off with its own power switch. It is suggested that any device which is operated mechanically, such as a tape deck or turntable be plugged into the Unswitched outlet.

The total power requirements for the accessories plugged into the Switched outlets should not exceed 500 Watts for the two outlets combined. The total power requirements for the device plugged into the Unswitched outlet should not exceed 800 Watts maximum. The current requirements for most electronic products are listed on the rear panel near the AC line cord. Be sure to check these requirements before plugging any device into the accessory outlets. As a rule, very-high-power amplifiers of over 200-Watt capability should be plugged directly into an AC wall outlet and not into the accessory outlets.

### **AC POWER CONNECTION**

The AC line cord should be plugged into any electrical outlet providing 110 to 125 volts AC, 50 or 60 Hz. Power to this outlet should not be switched off. If it is, the remote turn-on and memory features will be defeated.

## **SECTION 4**

### **WHAT THE CONTROLS DO (AND WHY)**

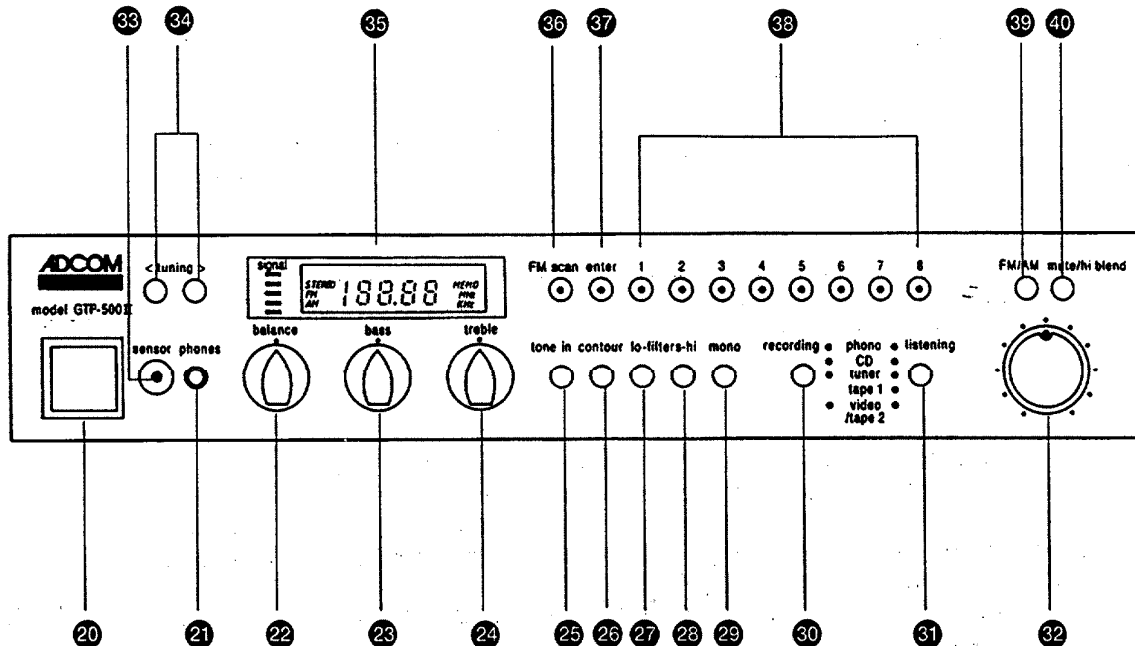
Please refer to the drawing on the next page for a diagram of the front panel controls on the GTP-500II.

### **POWER 20**

This high-capacity power circuit controls the power to the GTP-500II and the Switched accessory outlets on the rear panel.

### **PHONES 21**

The headphone jack is a standard 1/4" three conductor type designed for use with conventional stereo headphones. This jack has its own amplifier to power the headphones being used. When you listen to the headphones you may find it advisable to turn off your amplifier so that your speakers are not being played at the same time.



### BALANCE 22

The BALANCE control adjusts for unequal volume levels between channels. Moving the control to the left will diminish the volume in the Right channel, while moving the control to the right will diminish the volume in the Left channel.

To obtain optimum balance between channels, it is recommended that you adjust the tuner off station to pick up the interstation noise present there (muting defeated). Play the noise through the system and adjust the BALANCE control until the noise appears to come from the center position between the speakers as heard from your listening area. This will vary depending on room acoustics and your listening position in the room.

### TONE CONTROL SYSTEM

The tone controls of the GTP-500II have been carefully designed to provide subtle low and high frequency equalization without affecting the critical midrange frequencies. Careful circuit damping provides the special "shelving" response needed for good tone modification and smooth transition between modified and non-modified segments of the audio band. Do not expect to hear the drastic, non-musical boost and attenuation of Bass and Treble usually found in less sophisticated tone control circuits.

#### NOTE

The TONE IN 25 button must be in the IN position in order for the BASS and TREBLE controls to operate. (SEE TONE IN 25)



### **BASS 23**

This is the control for low frequency boost and cut of both the left and right channels. This control will only operate with the TONE IN button in the IN position. (See TONE IN 25 section)

### **TREBLE 24**

This is the control for high frequency boost and cut of both the left and right channels. This control will only operate with TONE IN button in the IN position. (See TONE IN 25 section)

### **TONE IN 25**

This switch, when in the OUT position, bypasses the entire tone circuit. In its normal (OUT) setting you have a straight-line preamp without tone controls in the circuit affecting the sound. This switch must be in the IN position to use the BASS and TREBLE controls. Thereby, the tone controls are switched into the circuit only when and if needed.

### **CONTOUR 26**

ADCOM's Contour circuit in the GTP-500II differs markedly from conventional loudness compensation circuits. Recent studies show that conventional circuits overcompensate for natural low and high frequency roll-off at low signal levels. The studies of Robinson and Dadson of Harvard University have provided guidelines for a newer and more accurate curve for loudness compensation. In our judgement, a subtle boost of low frequencies (in the 50-100 Hz range) and no boost at high frequencies, provides the ideal musical balance for listening at low to moderate levels. The effects of the Contour circuit gradually diminish as the volume level is increased. Depressing the CONTOUR switch engages this function.

### **FILTERS**

#### **LO FILTER 27**

This switch is used to engage the unique LO FILTER on the GTP-500II. This filter has been designed to remove unwanted low frequency information that can be caused by record warps on older turntables that may be prone to low-frequency rumble. This filter is also used for the elimination of some forms of acoustic feedback. Since the effect of this filter on frequencies in the listening range is very slight, this switch may be left engaged, if desired, with virtually no audible effect.

#### **HI FILTER 28**

This switch is used to engage the specially designed HI FILTER of the GTP-500II. This circuit is not simply an ultrasonic filter as is found on most preamplifiers, but rather a carefully designed high frequency contour circuit intended to both reduce unwanted ultrasonic frequencies as well as correct for the sometimes excessive high frequency energy found on some poorly equalized recorded material. Because of the gentle roll-off-effect, this filter can be used for a wide variety of program material, if and when needed. In the normal (OUT) position, both filters are completely removed from the signal path.

### **MONO 29**

Depressing this button combines the Left and Right signals and then feeds the combined signal to both outputs. This switch can be used to reduce FM noise on weak stations and when playing mono recordings, adjusting balance, or checking speaker phasing.

### **SELECTORS Recording 30 and Listening 31**

The Recording Selector button 30 controls which Input signal will be fed to the Tape Output jacks on the rear panel. The Listening Selector button 31 determines what is played through the speakers. To operate these selectors, simply press the appropriate button repeatedly until the LED next to the desired input or recording source is illuminated. The Recording Selector works independently of the Listening Selector so that you can record from one signal source and listen to a different signal source through your speakers.

For example: If you want to listen to your phono and at the same time record an FM broadcast through the tuner, set the Recording Selector to Tuner and the Listening Selector to Phono. The Listening Selector only determines what is heard through the speakers, it will not affect the signal chosen for recording with the Recording Selector.

The Recording Selector also allows you to copy (dub) from VIDEO/TAPE 2 to TAPE 1. To copy from VIDEO/TAPE 2 to TAPE 1, select the VIDEO/TAPE 2 setting on the Recording Selector. Remember, the Recording Selector does not determine what you hear through the speakers. To listen to either TAPE 1 or VIDEO/TAPE 2 you must make the appropriate selection using the listening Selector.

### **VOLUME 32**

This high quality motorized control is used to raise and lower the loudness of the music playing through the speakers or headphones. This control is continuously variable, not sharply stepped as is typical of lower quality or VCA type controls. CAUTION: It is a good idea to lower the volume before making selections using the Listening Selector button to avoid unexpectedly loud program material.

### **SENSOR 33**

This sensor receives commands from the hand held remote transmitter for the GTP-500II in the form of infrared light. Be sure that the sensor window is unobstructed. (See Remote Control RC-500II information in Section 5)

### **TUNING 34**

These two buttons let you select the direction of tuning by depressing either the left button for a lower frequency, or the right button for a higher frequency. The TUNING buttons work in conjunction with the FM SCAN button. 35 The TUNING buttons will operate differently depending upon the mode selected with the FM SCAN button. (See FM SCAN section)

When the FM SCAN button is illuminated (the FM SCAN mode) and either of the TUNING buttons is depressed, the tuner will scan (FM stations only) for the next receivable station in the chosen direction. If the FM SCAN button is not illuminated, the GTP-500II is in the Manual mode. In the Manual mode, depressing either of the tuning buttons will step through the frequencies in the chosen direction. If either of the TUNING buttons is depressed and held, the display will be indexed quickly until the button is released.

### **DISPLAY 35**

This multi-function readout displays the tuned frequency and whether you have selected AM or FM. The display also contains a signal strength meter and a Stereo Indicator. The Stereo indicator will only illuminate if the station being received is broadcasting in stereo.

The signal strength meter on the left side of the display indicates the relative FM signal strength being received by the GTP-500II. The higher the number of steps reached on the 5-step ladder of LEDs, the stronger the signal. You should orient your antenna so that the signal strength indicator reaches the highest level on your favorite FM stations.

### **FM SCAN 36**

This button is used to select either the FM SCAN mode or the Manual mode. This control is used in conjunction with the TUNING buttons 34. When the FM SCAN mode has been selected, an LED in the center of the button will be illuminated. In the FM SCAN mode, pressing either of the TUNING buttons will cause the tuner to scan in the chosen direction for the next available station. When the tuner gets to a station that is acceptable the scan function will stop. NOTE: The FM SCAN function will only work for FM stations; AM stations must be selected manually.

The tuner is in the Manual mode when the FM SCAN button is not illuminated. In this mode the TUNING buttons simply index the display one step at a time in the chosen direction. When the tuner is in the Manual mode, depressing and holding either of the TUNING buttons will cause the display to be indexed quickly in the chosen direction until the button is released.

### MEMORY 37 & 38

The GTP-500II has the capability to store 8 separate FM and 8 separate AM stations in its memory. The stations in the memory bank of the GTP-500II can be changed at will, and at random, any time you desire. To program stations in the memory:

1. Select either the FM or the AM band through FM/AM 39 button.
2. Tune to the frequency of the station you desire to program into the memory with the TUNING 34 buttons. If you are programming stations on the FM band, you may find it more convenient to search for the specific station by using the FM SCAN 35 function.
3. Press the ENTER 37 button. **MEMO** Will light up in the DISPLAY 35 to show memory is ready to accept instructions.
4. Press one of the 8 buttons in the station-preset rack 38. The **MEMO** indicator will disappear from the display 35 and the LED in the center of the selected button will glow to show that the memory has been programmed for that station's frequency. Now, each time that specific button is pressed, the tuner will automatically return to the programmed frequency and station. The presets do not have to be programmed in any sequence, numerical or otherwise. They can be programmed in any desired order on either FM or AM bands.
5. Repeat steps 2 to 4 to program any other stations in which you are interested up to a total of 8.

#### NOTE

If the AC outlet supplying power to the GTP-500II is turned off or if the unit is disconnected from the wall outlet for a prolonged period of time, the capacitor supplying power to the memory will discharge, the memory will be lost, and must then be reprogrammed.

### FM/AM 39

This switch is used to select either the AM or FM band. Your selection is indicated on the Display.

### MUTE/HI-BLEND 40

This switch is used to defeat the Muting circuit and engage the HI-Blend circuit of the GTP-500II. During normal operation, the GTP-500II utilizes a muting circuit to reduce interstation noise which occurs as you tune from station to station on the FM band. The muting circuit, which is normally engaged, will not allow very weak stations to be received. Should you desire to receive a weak station, simply depress the MUTE/HI-BLEND switch to defeat the muting circuit. This will allow weak stations to be received with the added benefit of ADCOM's Hi-Blend circuit which eliminates much of the background noise common in weak stereo FM signals. FM stereo has a unique property in that the majority of noise is out of phase information. The Hi-Blend circuit reduces the amount of high frequency separation between the left and right channels, and in doing so, reduces the noise without sacrificing fidelity. If further noise reduction is necessary, depress the MONO 29 button. (See MONO 29)

## SECTION 5

### REMOTE CONTROL RC-500II

Please refer to the drawing on next page for a diagram of the hand held remote transmitter RC-500II. Be sure that fresh batteries are installed in the RC-500II before attempting to operate the unit.

## TRANSMITTER WINDOW 41

This window should be pointed at the Sensor 33 of the GTP-500II. Infrared signals are emitted from the window to be received by the sensor of the GTP-500II. Be sure that this window is unobstructed when using the RC-500II.

## POWER 42

This button on the RC-500II is used to turn on the main power to the GTP-500II. The GTP-500II must be plugged into a powered AC outlet in order for the functions on the remote control to operate.

## LISTENING BUTTONS 43

These buttons are used to select the input signal source to be played through the speakers. (See SELECTORS in Section 4)

### NOTE

Selection of Recording modes cannot be made from the Remote Transmitter

## FM/AM BUTTON 44

This button is used to select either the FM or the AM band on the tuner section of the GTP-500II.

## MEMORY BUTTONS 45

These buttons are used to select stations stored in the memory of the GTP-500II tuner section. (See MEMORY in Section 4)

## TUNING BUTTONS 46

These two buttons let you select the direction of tuning by depressing either the left button for a lower frequency or the right button for a higher frequency. The Tuning buttons work in conjunction with the FM SCAN button 36 on the front panel of the GTP-500II. The Tuning buttons will operate differently depending upon the mode selected with the FM SCAN button. (See FM SCAN in Section 4)

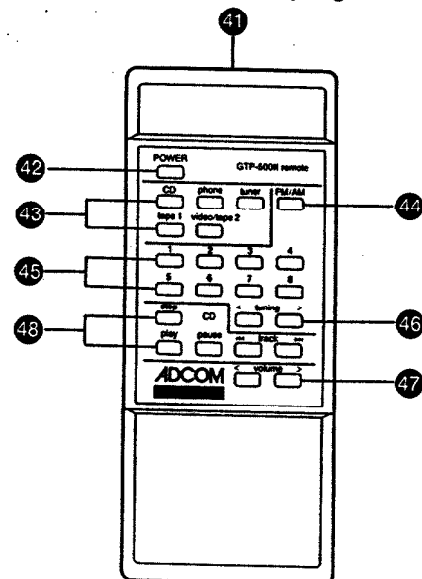
## VOLUME BUTTONS 47

These two buttons are used to raise and lower the volume on the GTP-500II. Press and hold the right button to raise the volume to the desired level. Press and hold the left button to lower the volume as desired. The volume control knob 32 will rotate continuously in the selected direction as long as one of the buttons is held down on the RC-500II. Be careful to select an active program source before raising volume level to prevent startling sound levels from appearing unexpectedly when a program is engaged at high volume settings. (See VOLUME in Section 4)

## CD PLAYER FUNCTION BUTTONS 48

These buttons will control many basic operating functions of the ADCOM GCD-575 CD Player only. (Requires accessory cord #DIN-575 to connect to CD player.)

**NOTE**  
THE RC-500II REMOTE TRANSMITTER  
WILL NOT FUNCTION UNLESS TWO (2) FRESH "AA"  
TYPE BATTERIES ARE INSTALLED AS INDICATED  
INSIDE  
THE SLIDING BATTERY COMPARTMENT  
ON THE REVERSE SIDE OF THE  
CONTROL UNIT. ALKALINE BATTERIES WILL USUALLY  
PROVIDE LONGER LIFE.



## **SECTION 6 CARING FOR YOUR GTP-500II**

Great care has been taken by ADCOM to assure that your Tuner-Preamplifier is as flawless in appearance as it is electronically. The front panel is a heavy-gauge, high-grade, anodized aluminum extrusion, bead-blasted for durability. If the front panel, top and sides should become dusty or fingerprinted, they can be cleaned with a soft lintless cloth, slightly dampened with a very mild detergent solution.

### **NOTE**

**DO NOT SPRAY OR USE LIQUIDS OF ANY KIND ON THE SURFACES OF THE GTP-500II**

### **FUSE ⑰**

The Tuner-Preamp is protected by a line fuse on the rear panel. If the power is switched ON and the small red LED on the front panel does not illuminate after a few seconds, shut off the Tuner-Preamp, unplug the AC line cord from the power outlet, and check the AC line fuse. If the fuse has opened, replace it **ONLY** with a fuse of equal value after carefully checking to determine the cause of the failure. If you are unsure about how to proceed, you may consult your authorized ADCOM dealer, and thereby avoid the inconvenience of unnecessary return to the factory.

**REPLACEMENT WITH AN INCORRECT FUSE OR ONE OF A DIFFERENT RATING WILL NOT PROTECT THE TUNER-PREAMP, WILL VOID THE WARRANTY, AND MAY CREATE A FIRE HAZARD.**

## **SECTION 7**

### **ADCOM PROTECTION PLAN (U.S.A. ONLY)**

ADCOM offers the enclosed **LIMITED WARRANTY**. Please read the details on the warranty card carefully to fully understand the extent of the protection offered by the warranty, its limits, and what you should do in order to maximize its benefits.

Be sure to verify that the serial number printed on the back panel matches the serial number on the outer carton. If either number is altered or missing, or if the warranty card is not included in the carton, you should notify us immediately in order to insure that you have received a genuine new ADCOM product which has not been opened, mishandled or tampered with in any way.

## **SECTION 8**

### **SERVICING**

ADCOM has a Technical Service Department to answer questions pertinent to the installation and operation of your unit. In the event of difficulty, please contact us for prompt advice. If your problem cannot be resolved through our combined efforts, we may refer you to an authorized repair agency, or authorize return of the unit to the factory. To aid us in directing you to a convenient service station, it would be helpful if you indicate which major city is accessible to your home.

Please address mail inquiries to:

ADCOM Service Corp.  
11 Elkins Road  
East Brunswick, NJ 08816

For telephone inquiries call:

Monday through Friday  
9 AM to 4 PM Eastern Time  
(908) 390-1130 - ask for  
Technical Service

When calling or writing about your ADCOM product, be sure to note and refer to the model and serial number of your unit, as well as the date of purchase and the dealer from whom the unit was purchased. In the event that the unit must be returned to the factory for service, you will be instructed as to the proper procedure when requesting a Return Authorization.

UNDER NO CIRCUMSTANCES SHOULD YOUR UNIT BE SHIPPED TO THE FACTORY WITHOUT PRIOR AUTHORIZATION, OR PACKED IN OTHER THAN ITS ORIGINAL CARTON AND FILLERS.

If the original shipping carton and its fillers have been lost, discarded, or damaged, a duplicate carton may be obtained from our Service Department for a nominal charge. Inquire as to the procedure when requesting a Return Authorization.

Always ship PREPAID via United Parcel Service (UPS) or other approved carrier. DO NOT SHIP VIA PARCEL POST, since the packing was not designed to withstand rough Parcel Post handling. FREIGHT COLLECT SHIPMENTS CANNOT BE ACCEPTED.

**SPECIFICATIONS**  
**GTP-500II**  
**Preamplifier Section**

Output Impedance	
Main Out .....	100 ohms
Tape Out .....	475 ohms
Output Level (Rated)	
Main Out.....	2.0V
Output Level (Maximum)	
Main Out.....	10.0V
Frequency Response ( $\pm 0.5$ dB)	
High Level.....	5Hz-65kHz
Phono.....	10Hz-50kHz
THD + Noise @ Rated Output	
High Level.....	0.004%
Phono .....	0.025%
IMD (SMPTE) @ Rated Output	
High Level.....	0.005%
Phono .....	0.006%
Signal-to-Noise (Rated Output, "A" Weighted)	
High Level .....	100dB
Phono .....	84dB
Input Impedance	
High Level .....	35,000 ohms
Phono.....	47,000 ohms
Input Sensitivity (Rated Output)	
High Level .....	320mV
Phono .....	4mV
Tone Controls	
Bass (@ 20Hz) .....	$\pm 10$ dB
Treble (@ 20kHz) .....	$\pm 9$ dB
Loudness (Volume @ 9:00 o'clock)	
100Hz.....	$\pm 5$ dB
20Hz.....	$\pm 10$ dB
Crosstalk (@ 1kHz) .....	- 80dB
Lo Filter (@ 20Hz) .....	- 4dB
Hi Filter (@ 20kHz) .....	- 3dB

**FM Tuner Section**

Usable Sensitivity (Mono) .....	2.1 $\mu$ V/12dBf
Quieting Sensitivity (50dB)	
Mono .....	2.6 $\mu$ V/14dBf
Stereo .....	34 $\mu$ V/36dBf
Signal-to-Noise ( @ 65dBf "A" Weighted)	
Mono .....	81.5dB
Stereo .....	75.0dB
THD + Noise (@ 1kHz, 65dBf)	
Mono .....	0.05%
Stereo .....	0.09%
Capture Ratio .....	1.7dB
Alternate Channel Selectivity ( $\pm$ 400kHz) .....	>75dB
IF Rejection .....	>90dB
Image Rejection ( $\pm$ 400kHz) .....	>80dB
Separation (@ 1kHz) .....	>50dB
Frequency Response ( $\pm$ 0.5dB) .....	30Hz-15kHz

**AM Tuner Section**

Sensitivity .....	300 $\mu$ V/m
Selectivity ( $\pm$ 10kHz) .....	>40dB
Image Rejection .....	>40dB
IF Rejection .....	>70dB
Signal-to-Noise ( @ 5mV/m "A" Weighted) .....	45dB

**General**

Power (available in other voltages on special order) .....	120VAC/50-60Hz
Power Consumption .....	20 Watts
Chassis Dimensions .....	17" (432mm) x 11-3/8" (289mm) x 3" (76mm)
Maximum Dimensions .....	17" (432mm) x 12-3/4" (324mm) x 3-1/8" (81mm)
Weight .....	12.5 lbs. (5.7kg)
Weight, Packed .....	16.5 lbs. (7.5kg)

**SPECIFICATIONS SUBJECT TO CHANGE WITHOUT PRIOR NOTICE**