



# ***GTP-506***

**Tuner Preamplifier**

**OWNER'S MANUAL**

**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.**

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

Retain this notice and the owners manual for future reference.

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

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 AC power 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 the unit.

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

This unit should be serviced by qualified service personnel when:

- The power cord or plug has been damaged; or
- Objects have fallen or liquid has been spilled, into the unit; 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.

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

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 a 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.

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

If necessary, the user should consult the dealer or an experienced radio/television technician for additional suggestions. The user may find the following booklet prepared by the Federal Communications Commission helpful: "How to Identify and Resolve Radio - TV Interference Problems". This booklet is available from the US Government Printing Office, Washington, D.C., 20402, Stock No. 004-000-00345-4.

**Caution -- Use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.**

**Caution -- To prevent electrical shock, do not use the polarized plug with an extension cord or receptacle, or other outlet unless the blades can be fully inserted to prevent blade exposure.**

**Attention-- Pour prevenir les chocs electriques ne pas utiliser cette fiche polarisee avec un prolongateur, une prise de courant ou une autre sortie de courant, sauf si les lames peuvent etre inserees a fond sans laisser aucune partie a decouvert.**

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



This "lightning flash with arrowhead" symbol is intended to alert the user of the presence of uninsulated "dangerous voltage" within the products enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.



This exclamation point symbol is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.



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.

## CAUTION POWER LINES

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

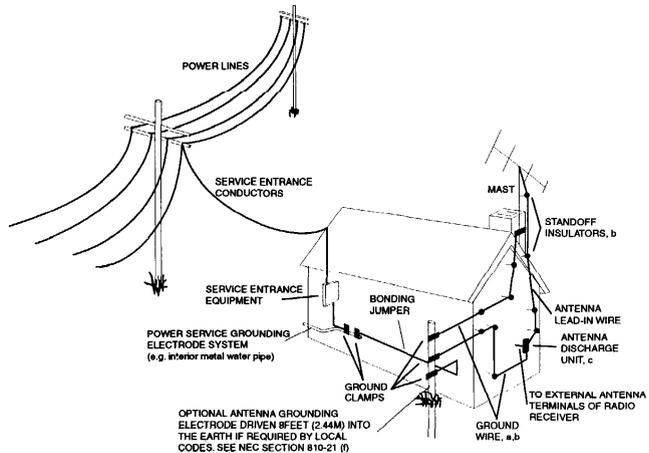
### OUTDOOR ANTENNA GROUNDING

If any outside antenna is connected to your tuner or tuner-preamplifier, be certain 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 the grounding conductors, location of the antenna discharge unit, connection to grounding electrodes, and requirements for the grounding electrode.

- a. 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.
- b. Secure antenna lead-in and ground wires to house with standoff insulators spaced 4-6 feet (1.22-1.83 m) apart.
- c. Mount antenna discharge unit as close as possible to where lead-in enters house.
- d. Use jumper wire not smaller than No. 6 AWG (13.3 mm<sup>2</sup>) copper, or the equivalent, when separate antenna-grounding electrode is used. See NEC Section 810-21 (j).

#### 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.



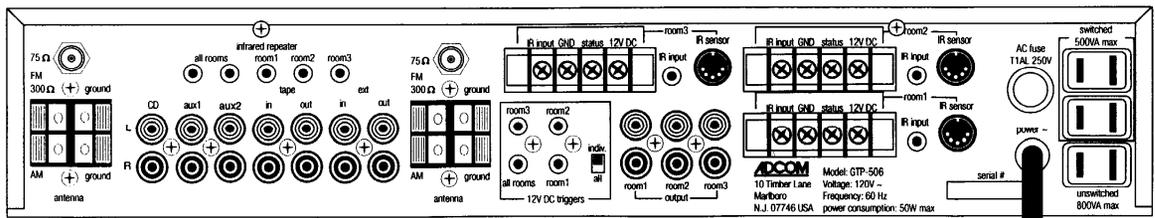
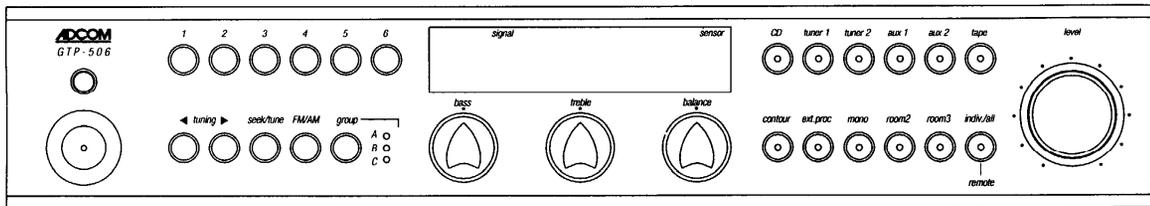
## Introduction

Congratulations on your decision to purchase the ADCOM GTP-506 Stereo Tuner/Preamplifier. You've made a wise choice that will reward you with years of enjoyment.

The GTP-506 is ADCOM's most flexible remote controlled tuner/preamplifier. It combines ease of use and ADCOM's legendary sound quality. The tuner sections use superbly accurate quartz synthesizer technology for excellent FM and AM reception. The preamplifier section benefits from ADCOM's exclusive linear gain amplifiers and proprietary circuit topology.

The GTP-506 has been engineered as an ideal match for an ADCOM high current power amplifier and allows you to custom tailor a multi-room music system to your particular requirements.

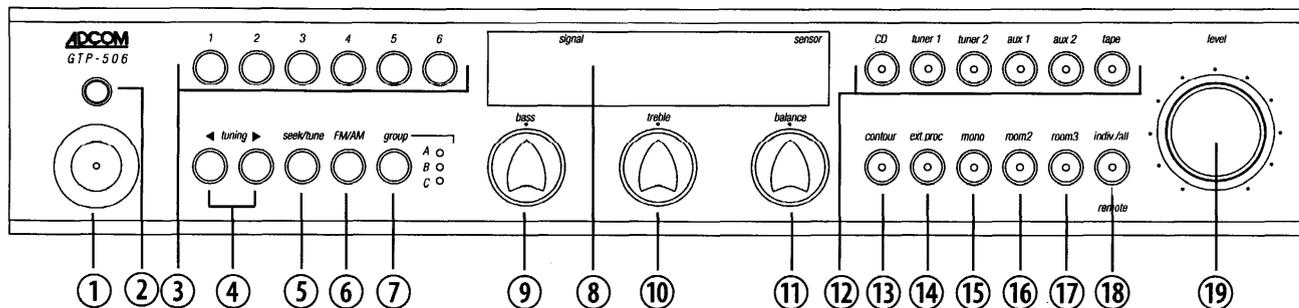
Enjoy your music – and thank you!



## Front and Rear Panels

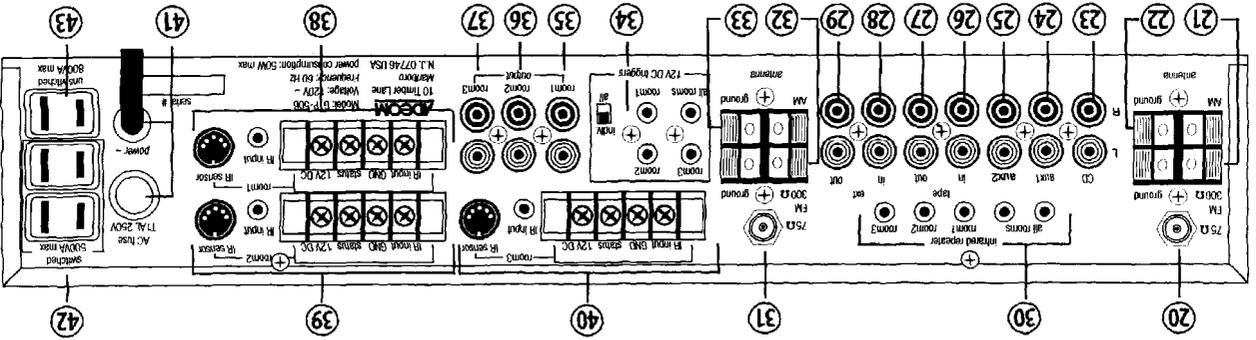
We carefully designed the GTP-506 with your enjoyment in mind. We've arranged the controls in functional groups so that their use is almost intuitive. The rear panel also benefits from the same design goals. Take a few moments to familiarize yourself with them. You'll find references to the circled ID numbers throughout the rest of this manual.

### GTP-506 Front Panel Diagram



- |  |                                  |                         |
|--|----------------------------------|-------------------------|
| ① power on/off switch with LED indicator | ⑧ display window                 | ⑮ mono on/off button    |
| ② headphone jack                         | ⑨ bass control                   | ⑯ room 2 select button  |
| ③ tuner preset buttons                   | ⑩ treble control                 | ⑰ room 3 select button  |
| ④ tuning up/down buttons                 | ⑪ balance control                | ⑱ individual/all button |
| ⑤ seek/tune selector                     | ⑫ input selectors                | ⑲ volume control        |
| ⑥ FM/AM selector                         | ⑬ contour on/off button          |                         |
| ⑦ tuning preset Group selector           | ⑭ external processor loop In/Out |                         |

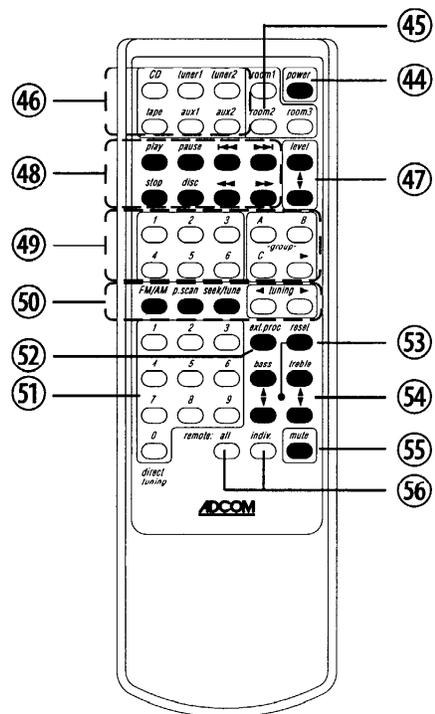
- 20 tuner 1 75 ohm (coax) FM antenna connection
- 21 tuner 1 300 ohm (wired) FM antenna connections
- 22 tuner 1 AM antenna connections
- 23 CD inputs (L & R) connections
- 24 Aux1 inputs (L & R)
- 25 Aux2 inputs (L & R)
- 26 tape inputs (L & R)
- 27 tape outputs (L & R)
- 28 external processor loop inputs (L & R)
- 29 external processor loop outputs (L & R)
- 30 infrared repeater connections
- 31 tuner 2 75 ohm (coax) FM antenna connection
- 32 tuner 2 300 ohm (wired) FM antenna connections
- 33 tuner 2 AM antenna connections
- 34 12V DC triggers outputs
- 35 room 1 outputs (L & R)
- 36 room 2 outputs (L & R)
- 37 room 3 outputs (L & R)
- 38 room 1 IR input, IR sensor, and IR/12V connection block
- 39 room 2 IR input, IR sensor, and IR/12V connection block
- 40 room 3 IR input, IR sensor, and IR/12V connection block
- 41 AC power cord and fuse socket
- 42 switched AC connections
- 43 unswitched AC connection



GTP-506 Rear Panel Diagram

## GTP-506 Remote Control Diagram

- ④④ power on/standby
- ④⑤ room selection
- ④⑥ input selection
- ④⑦ level up/down
- ④⑧ CD controls – operates ADCOM CD players only.
- ④⑨ tuning memory controls
- ⑤① tuning controls
- ⑤① direct tuning keypad – enter the tuning frequency of the desired station, the GTP-506 will change directly to that station
- ⑤② external processor on/off
- ⑤③ tone control reset – press to return room's bass and treble controls to 0
- ⑤④ tone controls – press to adjust bass and treble levels
- ⑤⑤ mute on/off
- ⑤⑥ remote: all/individual buttons – set to control only local room or all rooms (not applicable for all functions)



## Hook Up and Operating Instructions

### Out of the Box—

- 1) Unpacking: unpack the GTP-506 carefully. Put the foam inserts and other packing materials back in the carton and save them.

As part of ADCOM's quality control procedures, your GTP-506 was carefully inspected for physical imperfections and electrical performance before it left our plant. In the event of physical damage, notify your ADCOM dealer immediately and request help in filing a written damage claim.

**THE RIGHT TO A CLAIM AGAINST A COMMON CARRIER CAN BE FORFEITED IF THE CARRIER IS NOT NOTIFIED PROMPTLY IN WRITING AND IF THE SHIPPING CARTON AND PACKING MATERIALS ARE NOT AVAILABLE FOR INSPECTION. SAVE ALL PACKING MATERIALS UNTIL THE CLAIM HAS BEEN SETTLED.**

The foam packing and carton were specifically designed to protect your GTP-506. Even though space is often at a premium in today's homes, we recommend you save the packing material in case you need to ship the unit in the future.

- 2) Placement: Select a stable, vibration-free location for the GTP-506 as close as possible to your other audio and video components. The more massive and firmly anchored the supporting surface is, the less likely you'll be to experience any problems.
- 3) Power Off: Turn off all the other components in your system. This means everything. And do not plug the GTP-506 into the AC outlet yet.

*Remember to give any power amplifiers sufficient time to fully discharge their power supplies before you begin your connections: 30 seconds after turnoff is usually sufficient.*

## Connections—

- 1) FM Antenna: Depending on the antenna you use, connect it to either the Tuner 1 75 ohm terminal ② or the Tuner 1 300 ohm twinlead connectors ③ on the GTP-506's rear panel (see page 3). Connect another FM antenna to the Tuner 2 75 ohm terminal ④ or the Tuner 2 300 ohm twinlead connectors ⑤.

*The "T" shaped FM antennas supplied with the GTP-506 are 300-ohm dipoles and should be connected accordingly.*

The supplied antenna will probably be adequate for most installations. After you've connected the rest of your system and turned it on, select Tuner 1 by pressing the Tuner 1 input selector ②. Make sure the FM band is selected, if necessary press the FM/AM selector ⑥. Tune to an FM station. Extend the "arms" of the antenna and rotate them to the position resulting in the best reception. Once that position is determined, fasten the antenna in place. Next, select Tuner 2 by pressing the Tuner 2 input selector ④. Again, select the FM band, tune in a station and determine the best position for the second FM antenna. Remember that the dipole antenna is directional – it is most sensitive to signals arriving at right angles to the extended "T" and relatively insensitive to signals arriving from the ends of the "T". Any dipole antenna rapidly loses its effectiveness when rolled up or carelessly dropped behind a cabinet, etc. If the "T" antenna is undesirable from a performance or aesthetic point of view, your ADCOM dealer will be pleased to show you a variety of indoor antennas that might be more appropriate. We do suggest, however, that you ask for a home trial as reception conditions vary enormously from location to location.

The GTP-506 can also be used with 75 ohm antennas. These are usually large, roof-mounted antennas and can provide superior reception when compared to the 300 ohm dipoles. In addition, most cable companies use 75 ohm cable to distribute FM signals. Connect the GTP-506 to a 75 ohm antenna system by terminating the connecting cable with an "T" connector and attaching it to either rear panel 75 ohm FM antenna connection ②, ③.

The grounding schemes used by the cable companies are very complex and occasionally cause hum when the cable is attached to the 75 ohm antenna input. An isolation transformer (available at most electronic parts stores) will usually solve the problem.

- 2) AM Antenna: Connect a supplied AM antenna to the Tuner 1 AM antenna terminal ② on the GTP-506's rear panel. Connect another AM Loop antenna to the Tuner 2 AM antenna terminal ④. The supplied movable ferrite "loop" antennas will provide reasonable AM reception in most locations. The loops should be rotated away from the body of the GTP-506 and some experimentation will undoubtedly improve AM reception.

In the event that you need better reception, you can make your own AM antenna from a single length of insulated wire. Connect one end of the wire to the terminal marked "AM" and run the other end to a high location in your home or hang it from a window.

In most cases, a second wire run from the "Ground" terminal to a solid earth ground (a cold water pipe for example) will also improve AM reception as well as provide a safe "path to ground" in the event that lightning strikes an outdoor AM antenna.

- 3) Audio Input Hook Up: Connect up to three external high level audio sources (CD players, the audio outputs of VCRs, cassette decks, MiniDisc players, etc.) to the appropriate inputs ③ to ⑤ on the rear panel. Be sure to observe proper channel continuity (Left channel to Left, Right channel to Right). The line inputs of a recording deck should be connected to the GTP-506's Tape outputs ⑦.

Patience and common sense will help you avoid almost all the errors you might make when rushing the initial installation. Remember that "outputs" are always connected to "inputs" and that channel continuity is very important. For example, the left and right channel "output" jacks on a CD player should be connected to the CD "input" jacks on the GTP-506. The "output" jacks of your primary tape recorder should be connected to the GTP-506's Tape "input" jacks, while the recorder's "input" jacks are connected to the GTP-506's Tape "output" jacks. Likewise, connect the input and output jacks of an optional external processor to the "ext" outputs ⑧ and inputs ⑨, respectively, of the GTP-506.

The jacks on all ADCOM products follow conventional color coding: White for Left channel and Red for Right channel. Most interconnect cables observe this general guideline, and the connectors on each end of the cable are usually color coded.

- 4) Preamp to Power Amp Connections: Connect the GTP-506's Room 1 outputs ⑩ to the corresponding power amplifier inputs. Remember to maintain proper channel continuity. See Room 2 and Room 3 Connections for more information.
- 5) 12V Trigger Setup: To control the On/Off function of a power amplifier (or other device) with a 12V DC trigger input, connect the Room 1 12V DC

trigger output ④ to the 12V DC trigger input of the power amplifier. When Room 1 is active, a 12 V DC signal will be sent and the amplifier will be turned on. For further information regarding the 12V capabilities of the GTP-506, continue to 12V Connection Information.

6) AC Line Fuse: This socket ④ holds the AC line fuse. In the unlikely event that the AC fuse opens, replace it ONLY with a fuse of the exact type and rating. A higher rating or different fuse type will not protect the GTP-506, will void the warranty, and may be a fire hazard! A subsequent fuse failure means that your GTP-506 needs service.

7) AC Line Cord: Plug the AC cord ④ into a power source (wall outlet, line enhancer, etc.) supplying the correct voltage for your unit. Check the rear panel to make sure that your unit is designed for the available voltage. For example, units for use in the US are set for 110 to 125 VAC, 50/60 Hz. We strongly recommend an unswitched power source so that power to the GTP-506 can't be accidentally interrupted by turning off an external AC switch.

*If the GTP-506 is without AC power for an extended period of time, usually longer than 48 hours, station memory may be affected.*

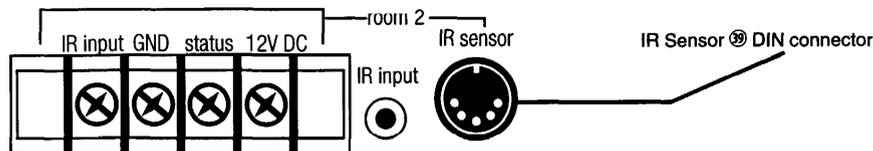
### Room 2 and Room 3 Connections:

There are many options for setting up the Room 2 and Room 3 functions of the GTP-506, too numerous to list them all. Below is a typical connection setup for Room 2, and an explanation of the other supplied connections. Since the procedure for connecting Room 3 is the same as connecting Room 2, simply repeat the procedure below, substituting Room 3 for Room 2.

### Typical Connection:

- 1) Preamp to Power Amp Connections: Connect the GTP-506's Room 2 ④ outputs to the corresponding power amplifier inputs. Remember to maintain proper channel continuity, and make the connections one Room at a time to avoid any confusion.
- 2) IR Sensor: In order to control the volume level for Room 2 and other functions of the GTP-506 from Room 2, you will need an IR sensor such as the ADCOM XR500II. An IR sensor is a unit which is placed in a secondary room and connected via wire to the device you wish to control. In this case you wish to control the GTP-506, and since physical connections vary from one IR sensor to another, multiple connections are provided on the GTP-506. In the case of the XR500II, connect the "Out" DIN connector to the Room 2 IR Sensor ④ DIN connector. Place the XR500II in a convenient location in Room 2, making sure the path to its lens is unobstructed. Now, when using the remote control in Room 2 the commands are relayed to the GTP-506. Instructions on using the remote control are found in the Operation section of this manual. See the IR Connection Information section for more detailed information about the IR capabilities of the GTP-506.
- 3) 12V DC control: If you are using a multichannel amplifier with a single 12V trigger input, connect the "all room" 12V DC trigger ④ on the GTP-506 to the 12V DC trigger input of the amplifier. If you are using multiple amplifiers or an amplifier with multiple 12V trigger inputs, connect the Room 1 12V DC trigger output ④ and the Room 2 12V DC trigger output to the corresponding amplifier's trigger input. See the 12V Connection Information section for more detailed information about the 12V capabilities of the GTP-506.

*See the connection diagram on page 9.*



**12V Connection Information:**

Four minijack 12V DC trigger outputs (34) are provided for control of external equipment. When the rear panel switch is set to Individual, the trigger outputs function as follows:

Room 1: trigger is active only when Room 1 is on.

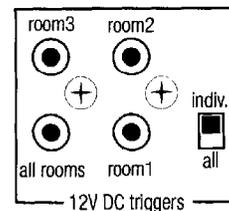
Room 2: trigger is active only when Room 2 is on.

Room 3: trigger is active only when Room 3 is on.

All room: trigger is active when any of the three rooms are on.

If using a multichannel amplifier such as the GFA-5006, the user should connect the "All room" trigger output to the amplifier's trigger input. If using separate amplifiers for each room, the user should connect the Room-specific trigger to the corresponding amplifier's trigger input (Room 1 trigger to Room 1 amplifier, etc.). This will allow each amplifier to be turned on only when it is being used. When the rear panel switch is set to All, all four minijack outputs behave as "All room" triggers. That is, all four triggers are active when any of the three rooms are on.

This is useful for users who could benefit from multiple "All room" triggers.



**Keypad Connection Information:**

Screw terminals are provided for keypad/IR receiver connections for each room. The connections for each device are: IR input, Ground, Status, and a 12V DC supply. See your keypad/IR receiver manual for installation instructions.

**IR Connection Information:**

In order to control the GTP-506 from other rooms, you must install separate IR sensor in each room. The IR sensor then connects to the IR sensor inputs on the GTP-506 rear panel. Connection types provided for each room on the GTP-506 include:

IR sensor: this DIN connector is designed for use with the ADCOM XR500II IR sensor.

IR input minijack and IR input screw-down terminal : these allow connection to a variety of other IR sensors and keypads.

IR repeaters – The IR repeater connections ③ are provided to allow IR control of your other components from room 2 and room 3, and function in the following manner:

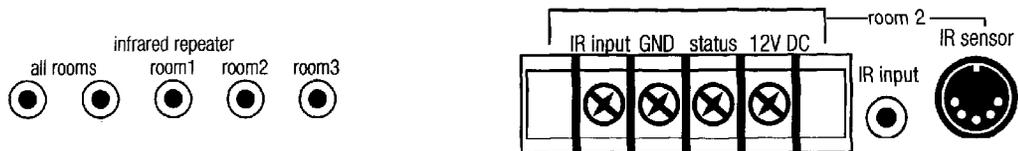
Room 1 output: passes IR signals received from the Room 1 IR inputs on the GTP-506 rear panel ③.

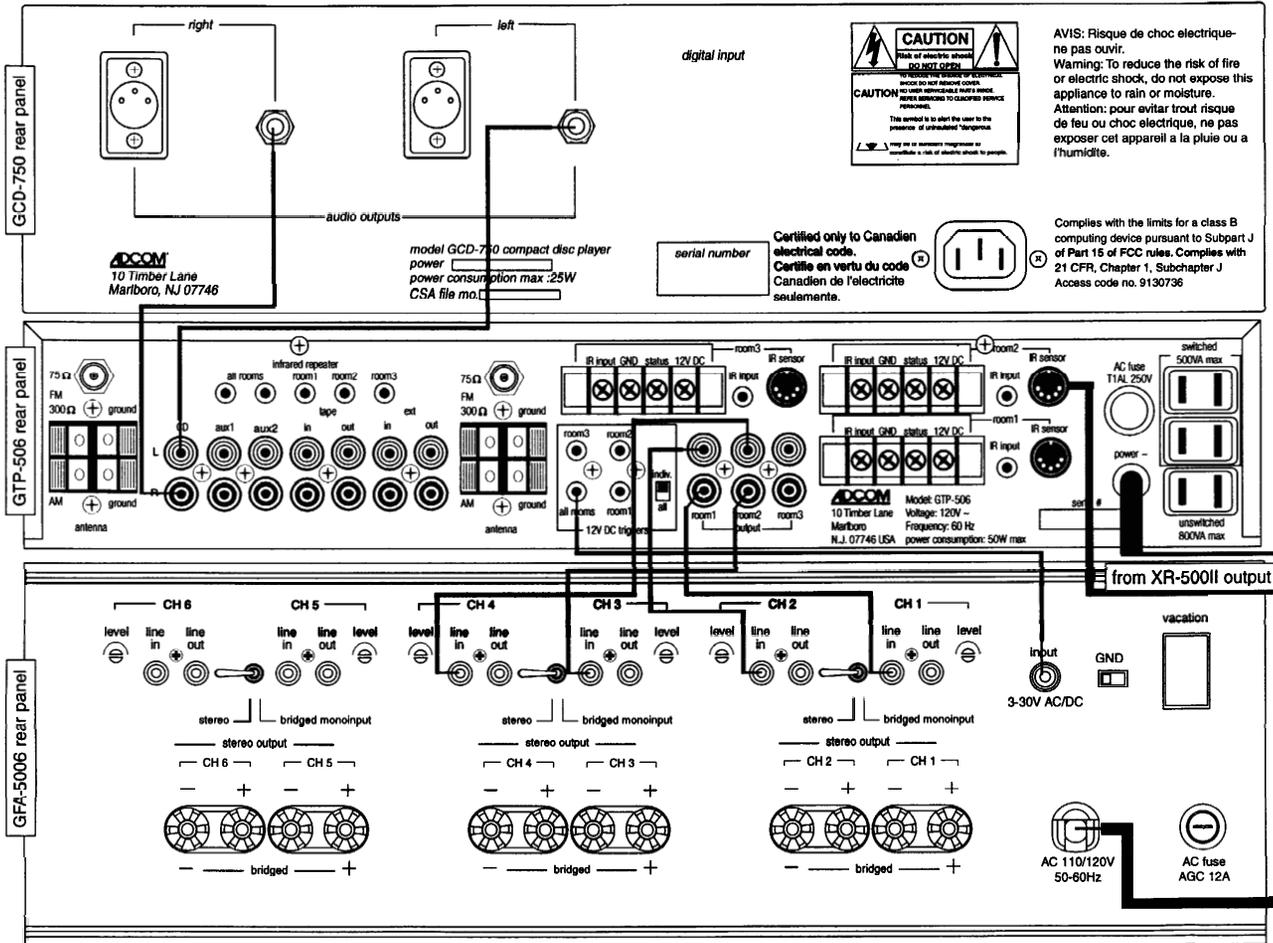
Room 2 output: passes IR signals received from the Room 2 IR inputs on the GTP-506 rear panel ③.

Room 3 output: passes IR signals received from the Room 3 IR inputs on the GTP-506 rear panel ③.

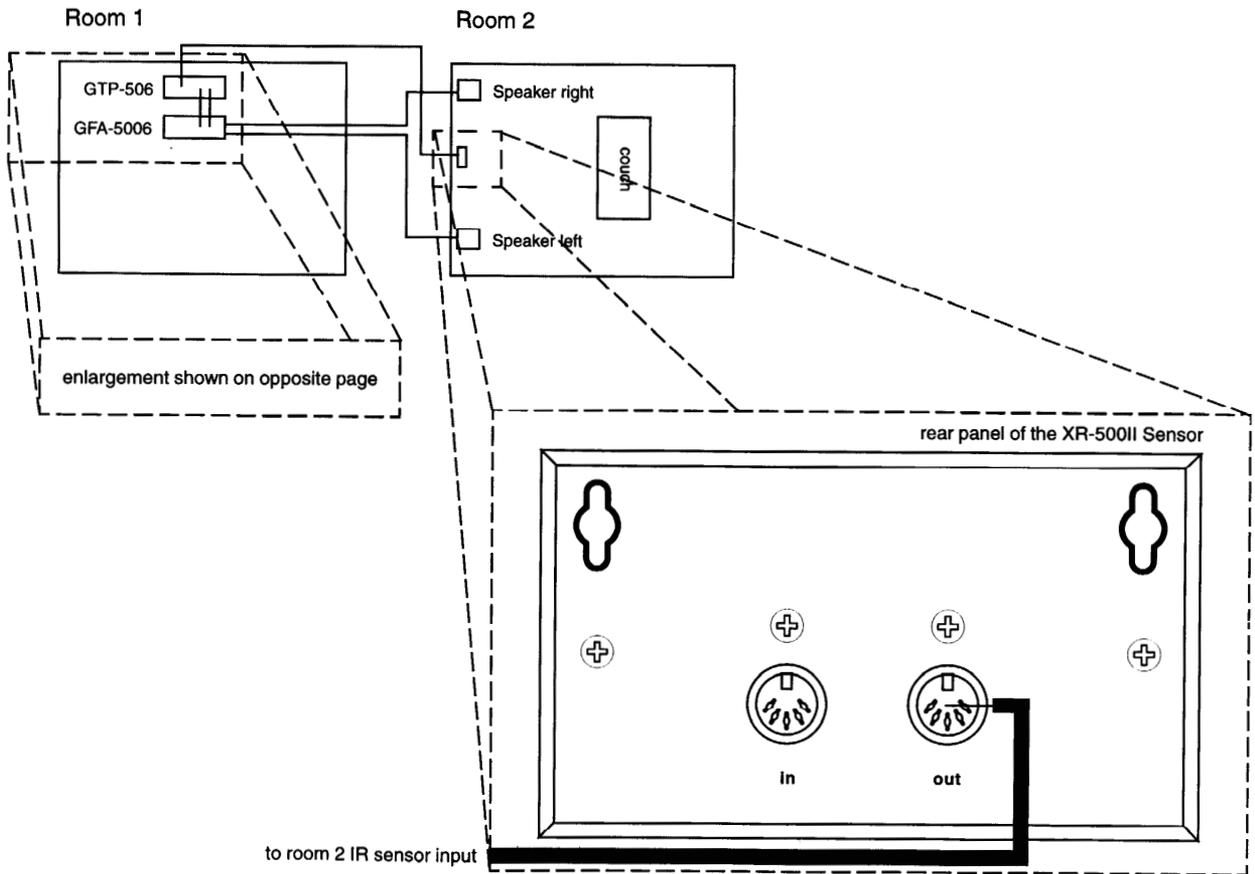
All Room outputs: passes IR signals received from any and all IR inputs on the GTP-506 rear panel ③, ③, ④.

The ADCOM IRA-500II is a recommended IR emitter.





**Typical two room connection diagram**



## Operation—

The multi-room functionality of the GTP-506 allows a high level of flexibility, which can seem intimidating to first time users. The GTP-506 allows you to enjoy music in three rooms, each with independent input selection, volume control, and tone control.

*Note: This section assumes that you've set up the rest of your system (sources, power amplifiers and speakers, etc.) in accordance with the instructions supplied with these units.*

*Note: IR sensor must be installed in room 2 in order to control the GTP-506 from room 2. An additional IR sensor must be installed in room 3 in order to control the GTP-506 from room 3.*

### Room 1 Operation:

**Power On/Off:** Room 1 Power can be toggled from the front panel power switch ① or the remote control Power button ④ while standing in Room 1.

**Input Selection:** To select a source for Room 1, press one of the front panel Input Selectors ⑫, or press one of the remote control Input Selectors ④ while standing in Room 1.

To select a source for Room 1 while standing in another room press the Room 1 button ④, then quickly press an Input Selector button ④ on the remote control.

**Level Control:** Room 1 level control can be adjusted by the knob ⑨ on the front panel, or via the level up/down arrows ⑦ on the remote control while standing in Room 1.

### Room 2 Operation:

**Power On/Off:** To turn on Room 2, press the front panel Room 2 button ⑩ or press the remote control Power button ④ while standing in Room 2.

To turn off Room 2, press and hold the front panel Room 2 button ⑩ until the LED is extinguished, or press the remote control power button while in Room 2.

**Input Selection:** To select an source for Room 2, press the front panel Room 2 button ⑩, then while the Room 2 LED is flashing press a Input Selector button ⑫. While standing in Room 2 simply press a remote control Input Selector button ④. While standing in a room other than Room 2 press the Room 2 button ④, then press the desired Input Selector button.

**Level Control:** Room 2's level can only be adjusted via the remote control up/down arrows ⑦, and can only be adjusted while standing in Room 2.

### Room 3 Operation:

**Power On/Off:** To turn on Room 3, press the front panel Room 3 button ⑪ or press the remote control Power button ④ while standing in Room 3.

To turn off Room 3, press and hold the front panel Room 3 button ⑪ until the LED is extinguished, or press the remote control power button while in Room 3.

**Input Selection:** To select a source for Room 3, press the front panel Room 3 button ⑪, then while the Room 3 LED is flashing press an Input Selector button ⑫.

While standing in Room 3 simply press a remote control Input Selector button ④. While standing in a room other than Room 3 press the Room 3 button ④, then press the desired Input Selector button.

**Level Control:** Room 3's level can only be adjusted via the remote control up/down arrows ⑦, and can only be adjusted while standing in Room 3.

### All Room Operation:

Press the "all" button on the remote control ⑥, or the indiv/all front panel button ⑮ to activate "all" mode. When in "all" mode:

**Power Off:** Pressing the front panel power button ① or remote control Power button ④ will turn off all Rooms. (Power must be turned on for each room individually.)

**Input Selection:** Pressing a front panel Input Selector ⑫ or a remote control Input Selector ④ will set all active Rooms to that selection.

**Level Control:** Level control is not affected by the "all" setting. Each room's level must be set from within that room. However, the "mute" function will mute all rooms when in "all" mode.

*Note: The volume levels for Room 2 and Room 3 can be locked. Set the level as desired, then from the front panel of the GTP-506 press:*

*-Room 2 and Aux 1 simultaneously to Lock Room 2*

*-Room 3 and Aux 1 simultaneously to Lock Room 3*

*-Room 2 and Aux 2 simultaneously to Unlock Room 2*

*-Room 3 and Aux 2 simultaneously to Unlock Room 3*

### General Operation:

- 1) Mute can be applied via the remote control:  
In Individual Mode, mute affects only the room it is pressed in. Any room can be muted from any other room by pressing the "room number" button ⑤ and then pressing the mute button ⑥.  
In All Mode, mute affects all active rooms. Press the Individual or All buttons ⑥ to control which rooms your commands affect.
  - 2) The Tuner: The Tuner section is responsible for processing and amplifying extremely weak signals "pulled in" by the appropriate antenna. ADCOM's refined quartz synthesis technology makes this a highly accurate exercise. However, using the tuner is a simple process.
    - A) The Display window ⑧ provides an instant status check of the following important items:
      - 1) AM & FM signal strength: The eight-segment signal strength meter on the left side of the display will light depending on the strength of the current frequency. This display can help you find the best location for your antenna – the taller the bar, the stronger the signal.
      - 2) Stereo indicator: This operates in FM mode only and lights whenever the tuner circuit senses the presence of a "subcarrier" signal necessary for stereo reception.
      - 3) FM/AM band/frequency indicator: This is displayed at the center of the window.
      - 4) "Seek" mode indicator: Appears immediately above the "MHz" indicator.
      - 5) Preset indicator: Located on the far right hand side of the display, this lights when one of the preprogrammed stations is chosen.
    - B) After selecting FM or AM with the FM/AM selector ④, tune to the desired station by one of the following methods:
      - 1) Press one of the Tuning up/down buttons ④ until the Display ⑧ shows the proper station frequency.
      - 2) Enter "Seek" mode by pressing the Seek/Tune button ⑤. "Seek" appears in the display. Then press either of the Tuning up/down buttons ④. The GTP-506 will automatically advance to the next active broadcast with a strong signal.
      - 3) Press any of the Tuner Preset buttons ③ to recall preprogrammed station frequencies.
      - 4) Press the preset scan button (p.scan) ⑥ to initiate a scan of the presets starting at preset 1. To stop the scan press the p.scan button again or press any of the station preset buttons.
      - 5) Station frequencies may be accessed directly using the direct tuning buttons on the remote control ⑩. The GTP-506 will change to the entered frequency once a valid entry is displayed. If the first digit in the frequency is a "1", the GTP-506 will wait until four digits are entered before changing, otherwise the station will be tuned after 3 digits are entered.
- Tuner Presets are organized by Groups as follows:
- Group A : Presets 1 through 6
  - Group B : Presets 7 through 12
  - Group C : Presets 13 through 18
- Cycle through the Groups by pressing the Group button ⑦. The current Group (A, B, or C) will be indicated with a lit LED. Now use the tuner preset buttons ③ to select the presets available in the selected Group.
- To program the presets:
- a) Choose the desired preset Group (A, B, or C) by pressing the group button ⑦ to cycle through the groups.
  - b) Tune to the desired broadcast frequency by either of the two methods outlined in B1 and B2 above.
  - c) Decide which preset number you want to assign that frequency to. There are six preset buttons, which correspond to different stations depending on which Group is currently selected (indicated by the red LED next to each Group name).
  - d) Hold down the desired tuner preset button ③ until the word "preset" and the corresponding number appears on the display. Any preset number in any group can be assigned FM or AM stations, in any combination you like. In other words, preset 1 in Group A can be FM, preset 2 in group A can be AM, etc.

- 3) **Tone controls:** The Bass and Treble controls ⑨, ⑩, ⑫ increase or decrease low and high frequencies to suit your taste. For less treble or bass, turn the treble or bass dial to the left and hold until the desired level is reached. For more treble or bass, turn the dial to the right. Tone controls settings are stored independently for each room, and adjustments to tone affect only the room you standing in when you make the adjustments. For example: raising the bass while in Room 2 will only raise the bass for Room 2.
- 4) **Contour button-**The contour button ⑬ engages a bass boost circuit that compensates for the human ear's insensitivity to bass frequencies at low levels. The subtle boost from 20Hz to 100Hz provides a better tonal balance when listening at low to moderate levels. The amount of bass boost is reduced as the main level rises. Contour is applied only to the Room 1 output.
- 5) **Mono button-** The Mono button toggles between stereo and Mono output separately for each room. If you require a Mono output for a Room, select that room and press the Mono button ⑭. When Mono is engaged the red LED in the button will be lit. Press Mono again to return to stereo listening.
- 6) **External Processing Loop –** When engaged, Room 1's selected source is routed through an external processor. Note that activating the ext. proc. ⑮ only works when a processor is connected.
- 7) **Tape Outputs -** The signal from Room 1's selected input is always available at the rear panel tape outputs ⑯ for convenient recording. The only exception to this is when you select the Tape as the source. The signal from Tape In IS NOT routed to the Tape Out. This prevents the creation of an undesirable feedback loop that might damage amplifiers or speakers.

## Additional Information

### Caring for your GTP-506

ADCOM has taken great care to produce a product that is flawless in appearance as well as performance. The front panel is heavy gauge, high grade anodized aluminum extrusion, bead blasted for durability. The chassis, rear panel, and top cover are painted and baked heavy gauge steel. To maintain the chassis appearance, simply wipe clean the outer surface using a damp lint free cloth.

**DO NOT SPRAY OR POUR LIQUIDS OF ANY KIND ONTO THE GTP-506!**

**NEVER USE HARSH SCOURING POWDERS!**

## Trouble Shooting

Symptom	Possible Cause	Remedy
-Remote control commands are not properly received	-Weak or dead batteries in remote control -infrared signal not reaching the <i>sensor</i> lens	-Replace batteries in remote control. As batteries weaken, the distance the remote control can send a signal is reduced. -Clear path between remote control and <i>sensor</i> lens.
-Remote control commands are not properly received from Room 2	-Room 2 IR Sensor not installed -Room 2 IR Sensor is improperly connected	-An IR Sensor must be installed in Room 2 in order for the GTP-506 to receive IR commands from Room 2. -Check the connections and refer to IR Connection Information. -Check the connections at the GTP-506 rear panel and at the IR sensor.
-Remote control commands are not properly received from Room 3	-Room 3 IR Sensor not installed -Room 3 IR Sensor is improperly connected	-An IR Sensor must be installed in Room 3 in order for the GTP-506 to receive IR commands from Room 3. -Check the connections and refer to IR Connection Information. -Check the connections at the GTP-506 rear panel and at the IR sensor.
-Selected input will not play	-Incorrect input selected -Source connected to incorrect input	-Check rear panel connections and input source names.
-Cracking noise coming from speakers during playback  -No sound coming from either or both right and left channel speakers	-Unit is improperly connected -Connection cables are defective -Amplifier or speaker connections are faulty	-Turn the system off and check all connections -Replace faulty or suspicious connection cables -Check amplifier and speaker connections for poor or faulty connections.

## Servicing

ADCOM has a Technical Service Department to answer questions pertaining 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 our factory. To aid us in directing you to a convenient service center please indicate which major city is most accessible to your home.

Please address all mail inquires to:  
ADCOM Service Corporation  
10 Timber Lane  
Marlboro, NJ 07746 USA

*Please include a return address for the reply.*

Phone or Fax inquiries to:  
Phone (732) 683-2356  
Fax (732) 683-9790  
Mon - Fri 9AM - 5PM EST

*Please include a return fax number for the reply.*

email and website info:  
info@Adcom.com www.adcom.com  
*Please include a return e-mail address  
for the reply.*

When contacting ADCOM concerning your **GTP-506**, be sure to reference the model and serial numbers as well as the date of purchase and the dealer from whom it was purchased. In the event the unit must be returned to our factory for service, you will be instructed on the proper procedure when you call or write for a Return Authorization. **UNDER NO CIRCUMSTANCES SHOULD YOUR UNIT BE SHIPPED TO OUR 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. If necessary, inquire about a box when requesting a Return Authorization Number.

Always ship PREPAID VIA UNITED PARCEL SERVICE (UPS) OR OTHER APPROVED CARRIER. DO NOT SHIP VIA PARCEL POST, since the packaging was not designed to withstand rough Parcel Post handling. FREIGHT COLLECT SHIPMENTS CAN NOT BE ACCEPTED UNDER ANY CIRCUMSTANCES.

## TECHNICAL SPECIFICATIONS

### PREAMPLIFIER

Rated Voltage .....	1 Vrms
%THD + N (20Hz to 20kHz) .....	0.006%
Output Impedance .....	570ohm
Input Impedance .....	17.6kohm
Gain .....	15dB
A-wtd. Signal to Noise Ratio .....	92dB
Frequency Response (20Hz-20kHz) .....	+ /-0.25dB

### TONE CONTROLS

Bass Break Frequency .....	160Hz
Bass Max Gain/Cut .....	+/-15dB@20Hz
Treble Break Frequency .....	6.2kHz
Treble Max Gain/Cut .....	+/-9dB@20kHz

Maximum Output .....	9.4Vrms
CCIF 4kHz to 20kHz .....	0.002

Separation (@ 1kHz) .....	77dB
Crosstalk (@ 1kHz) .....	77dB

### TUNER

Usable Mono Sensitivity .....	15dBu
50dB Mono Quieting Sensitivity .....	22dBu
50dB Stereo Quieting Sensitivity .....	39dBu
A-wtd. Signal to Noise Ratio	
mono .....	75dB
stereo .....	70dB
%THD+N (30Hz-15kHz)	
mono .....	0.1
stereo .....	0.2
Stereo Separation (1kHz) .....	43dB
Alternate Channel Selectivity .....	>50dB
Capture Ratio .....	2dB

### GENERAL

Chassis Dimensions .....	16-7/8"x11-1/2"x3"
	(429mm x 292mm x 76mm)
Maximum Dimensions .....	17"x12-1/2"x3-1/2"
	(432mm x 318mm x 89mm)
Weight .....	15lb(6.8kg)
Weight, Packed .....	18lb(8.2kg)

Specifications are subject to change without notice.

**ADCOM**  
10 Timber Lane  
Marlboro, NJ 07746  
Telephone (732) 683-2356  
Fax (732) 683-9790