

azur 340T

FM/AM Tuner

User's manual



Cambridge Audio

INTRODUCTION

Thank you for purchasing this Cambridge Audio Azur 340T, a newly developed FM/AM tuner to compliment the Cambridge Audio Azur range.

About this unit

The 340T incorporates sophisticated Alarm and Sleep timer functions that can turn on and off connected Cambridge Audio amplifiers fitted with Control Bus inputs/outputs. A specific version of the azur remote is provided, giving full remote control of the tuner functions in an attractive and easy to use handset.

The 340T can only be as good as the system it is connected to. Please do not compromise on your amplifier, speakers or cabling. Naturally we recommend amplification and cabling from the Cambridge Audio range, connected to suitably revealing loudspeakers. The use of an external FM/AM aerial is strongly recommended to get the best from your 340T.

Now we invite you to sit back, relax and enjoy!



Matthew Bramble
Technical Director

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SAFETY PRECAUTIONS

Checking the Power Supply Rating

For your own safety please read the following instructions carefully before attempting to connect this unit to the mains.

Check that the rear of your unit indicates the correct supply voltage. If your mains supply voltage is different, consult your dealer.

This unit is designed to operate only on the supply voltage and type that is indicated on the rear panel of the unit. Connecting to other power sources may damage the unit.

This equipment must be switched off when not in use and must not be used unless correctly earthed. To reduce the risk of electric shock, do not remove the unit's cover (or back). There are no user serviceable parts inside. Refer servicing to qualified service personnel. If the power cord is fitted with a moulded mains plug the unit must not be used if the plastic fuse carrier is not in place. Should you lose the fuse carrier the correct part must be reordered from your Cambridge Audio dealer.

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



The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance instructions in the service literature relevant to this appliance.

This product complies with European Low Voltage (73/23/EEC) and Electromagnetic Compatibility (89/336/EEC) Directives when used and installed according to this instruction manual. For continued compliance only Cambridge Audio accessories should be used with this product and servicing must be referred to qualified service personnel.



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The crossed-out wheeled bin is the European Union symbol for indicating separate collection for electrical and electronic equipment. This product contains electrical and electronic equipment which should be reused, recycled or recovered and should not be disposed of with unsorted regular waste. Please return the unit or contact the authorised dealer from whom you purchased this product for more information.



Plug Fitting Instructions (UK Only)

The cord supplied with this appliance is factory fitted with a 13 amp mains plug fitted with a 3 amp fuse inside. If it is necessary to change the fuse, it is important that a 3 amp one is used. If the plug needs to be changed because it is not suitable for your socket, or becomes damaged, it should be cut off and an appropriate plug fitted following the wiring instructions below. The plug must then be disposed of safely, as insertion into a 13 amp socket is likely to cause an electrical hazard. Should it be necessary to fit a 3-pin BS mains plug to the power cord the wires should be fitted as shown in this diagram. The colours of the wires in the mains lead of this appliance may not correspond with the coloured markings identifying the terminals in your plug. Connect them as follows:

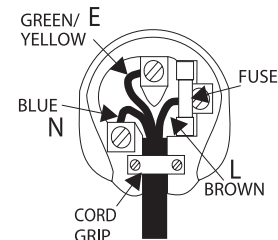
The wire which is coloured BLUE must be connected to the terminal which is marked with the letter 'N' or coloured BLACK.

The wire which is coloured BROWN must be connected to the terminal which is marked with the letter 'L' or coloured RED.

The wire which is coloured GREEN/YELLOW must be connected to the terminal which is marked with the letter 'E' or coloured GREEN.

If your model does not have an earth wire, then disregard this instruction.

If a 13 amp (BS 1363) plug is used, a 3 amp fuse must be fitted, or if any other type of plug is used a 3 amp or 5 amp fuse must be fitted, either in the plug or adaptor, or on the distribution board.



IMPORTANT SAFETY INSTRUCTIONS

Please take a moment to read these notes before installing your Azur tuner, they will enable you to get the best performance and prolong the life of the product. We advise you follow all instructions, heed all warnings and keep the instructions for future reference.

This unit must be installed on a sturdy, level surface. Since the power transformers generate a magnetic hum-field of moderate strength, a turntable should not be located nearby.

Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong. The wide blade or the third prong are provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.

The unit must be installed in a manner that makes disconnection of a mains plug from the mains socket outlet (or appliance connector from the rear of the unit) possible.

Do not plug your 340T directly into a power amplifier unless it has a variable output level.

Do not route the power cable so that it can be walked upon or damaged by other items near it.

The unit requires ventilation. Do not situate it on a rug or other soft surface and do not obstruct any air inlets or outlet grilles.

Do not place in a sealed area such as a bookcase or in a cabinet. Any space open at the back (such as a dedicated equipment rack) is fine however.

Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.

When using for the first time it is advisable that it is left on, playing music, for at least 36 hours prior to critical listening. For subsequent use, a warm up period of 10-15 minutes is recommended for maximum enjoyment.

If you do not intend to use this unit for a long period, switch it to standby and unplug it from the mains socket. Also unplug the unit during lightning storms.

WARNING – To reduce the risk of fire or electric shock, do not expose this unit to rain or moisture. This unit must not be exposed to dripping or splashing water or other liquids. No objects filled with liquid, such as vases, shall be placed on the unit. In the event of spillage, switch off immediately, disconnect from the mains supply and contact your dealer for advice.

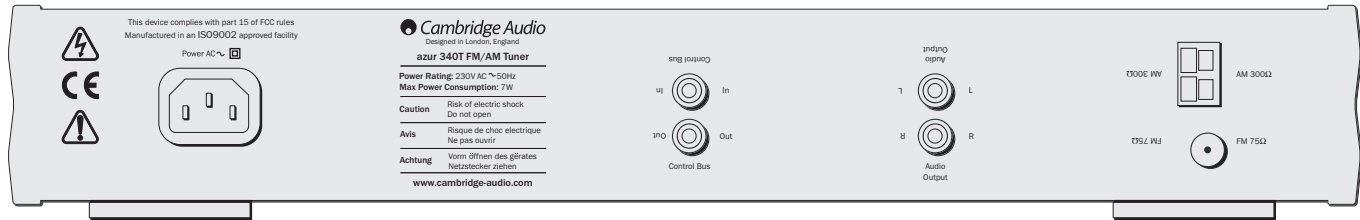
To clean the unit, wipe its case with a moist, lint-free cloth. Do not use any cleaning fluids containing alcohol, ammonia or abrasives. Do not spray an aerosol at or near your 340T.

Ensure that small objects do not fall through any ventilation grille. If this happens, switch off immediately, disconnect from the mains supply and contact your dealer for advice.

Refer all servicing to qualified service personnel. Servicing is required when the unit has been damaged in any way, such as a damaged power-supply cord or plug, liquid has been spilled or objects have fallen into the unit, the unit has been exposed to rain or moisture, does not operate normally, or has been dropped.

If you have checked the troubleshooting guide in the manual with no improvement, do not attempt to repair, disassemble or reconstruct the unit. A serious electric shock could result if this precautionary measure is ignored.

REAR PANEL CONNECTIONS



AC Power Socket

Once all connections have been made, plug the AC power cable into an appropriate mains socket. Your 340T is now ready for use.

Audio Output

Connect to your amplifier using RCA/phono cables.

Control Bus

The Control Bus carries control information, in the form of demodulated remote control signals, between the tuner and other Cambridge Audio devices connected to it. The 340T will respond to appropriate commands, as well as generating specific amplifier On/Off commands according to the tuner's Alarm and Sleep functions.

FM Aerial

Connect an aerial to the FM 75 ohm socket (a simple wire aerial is supplied for temporary use). Extend the lead and move the aerial around until you get the best reception.

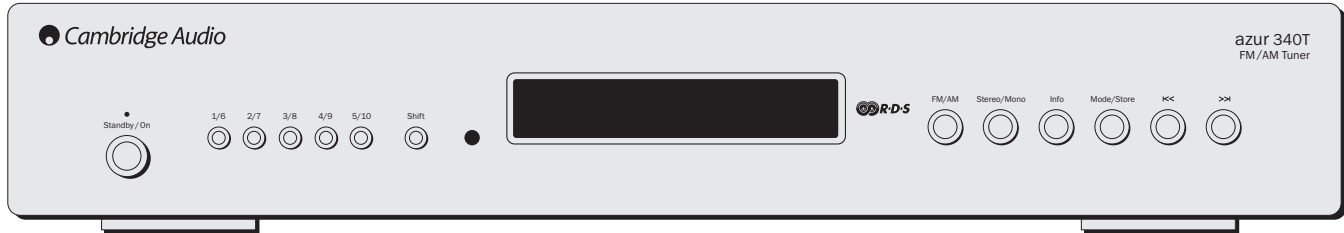
For continued use, we strongly recommend using a 75 ohm outdoor FM aerial.

AM Loop Aerial

Please note the supplied antenna wire is supplied for temporary indoor use only. Connect each end of the single length antenna to the antenna terminals. Place the antenna as far from the main system as possible to prevent unwanted noise and to obtain optimum reception.

If the AM loop aerial provided does not receive sufficient reception, it may be necessary to use an outdoor AM aerial.

FRONT PANEL CONTROLS



Standby/On

Switches the 340T between Standby and On. When in Standby the front panel display shows the current time in hours and minutes, as well as the date if RDS clock mode is enabled.

Presets

The 340T can store up to 20 Presets for each of the FM and AM bands. The Shift button alternates the 5 buttons between accessing Presets 1-5 and 6-10. To access Presets 11-20, hold down the Shift button. The display will show which choice has been made.

FM/AM

This button switches between the FM and AM bands.

Stereo/Mono

Press this button to alternate between Stereo and Mono mode when listening to FM broadcasts.

Info

Allows the user to select and view different information on the display. When listening to the FM band, the display modes are Radiotext, RDS Program Type, Signal Strength, Time, Stereo/Mono mode, and Info Off. In AM mode, the user can see the Signal Strength and Time. RDS information on the FM band is dependant on signal strength.

Mode/Store

Press once to toggle the functionality of the |<< >>| buttons between Scan and Preset modes. Press and hold the button to store the current station (the display will show the next free preset number). Use the |<< >>| buttons to increase/decrease the preset number, then press the Mode/Store button to confirm the selection.

|<< >>|

Adjusts the tuner frequency when in Scan mode (the default setting). Holding either button down will search for the next station. When in Preset mode, the user can step through each of the stored Presets.

OPERATING INSTRUCTIONS

Tuning and Listening to the 340T

1. Press the Standby/On button on the front panel.
2. Select FM or AM by pushing the FM/AM button on front panel or remote control.
3. Press the |<< >>| buttons to manually select the desired frequency, or hold either button down to search for a station.

Setting Presets

Select the station you wish to store. Press and hold the Mode/Store button, then use |<< >>| to select the slot where the station will be stored. Press Mode/Store again to save it.

How to Select Preset Stations

1. Press the Standby/On button on the front panel.
2. Select FM or AM by pushing the FM/AM button on front panel or remote control.
3. Press chosen preset button to listen to the corresponding station.

Alternatively, press the Mode/Store button to enable Preset mode, then use the |<< >>| buttons to cycle through the stored stations.

Setting the Clock

The user can either allow RDS transmissions to automatically set the Clock Time/Date, or the Clock can be set manually. To change the Clock mode, press and hold the Clock button on the remote control. Use the |<< >>| buttons on the remote to change mode between RDS and Manual. Press the Alarm button again to confirm your choice. If Manual mode is selected, you can then set the time. Firstly, adjust the hour using the |<< >>| buttons. When that is done, press Clock again to adjust the minutes. Press Clock again to finish.

Setting the Alarm Time

The Alarm function will turn on the 340T at a chosen time. It will also generate a command on the control bus that, when connected, will turn on a Cambridge Audio azur series amplifier.

To set the Alarm time:

1. Press Alarm/Clock on your remote handset.
2. Use |<< >>| buttons to select if the alarm should be off, just work once, or every day.
3. Press Clock.
4. Press |<< >>| keys to alter the hour
5. Press Clock.
6. Press |<< >>| keys to alter the minute
7. Press Clock to finish.

Setting the Sleep Time

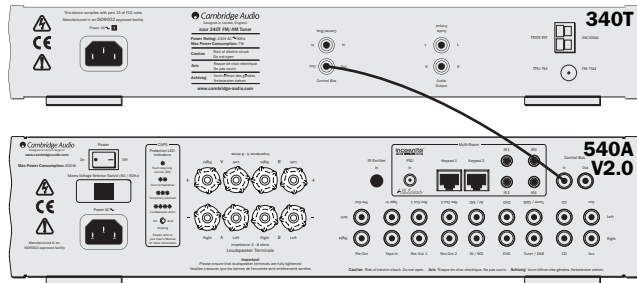
The Sleep function will turn off the 340T at a chosen time. It will also generate a command on the Control Bus that, when connected, will turn off a compatible Cambridge Audio Azur series amplifier (such as the 540A V2.0, 640A V2.0 and 740A).

To set the Sleep time:

1. On the remote handset, hold down the Alarm/Clock button whilst simultaneously pressing the Standby button.
2. Press the | << >> | keys to alter the hour
3. Press Clock.
4. Press the | << >> | keys to alter the minute
5. Press Clock to finish.

Connecting the Control Bus

If it is desired to control a Cambridge Audio azur amplifier by the 340T's Alarm or Sleep timers, connect the two units via the orange Control Bus sockets using the supplied orange RCA/phono lead as shown below:



Custom Installation (C.I.) Use

The 340T has a Control Bus input/output that allow unmodulated remote control commands (positive logic, TTL level) to be received electrically by the unit and looped to another unit if desired. These control commands are typically generated by custom installation (multi-room) systems.

The Control Bus sockets are colour coded orange and an appropriate colour coded RCA/phono lead is provided for when this feature is used (a plastic twist tie is also included for cable management). In addition the 340T features direct IR/Control codes as well as toggle codes for many of its features to simplify programming custom installation systems. Special direct commands can be accessed on the supplied remote control for teaching into C.I. systems as follows:

Specific power on/off commands – press and hold the Standby button. The remote first generates it's usual amp and tuner standby (toggle) commands (both are sent). Keep the button held down, after 12 seconds an Amp On command will be generated, then if the button is kept held down after a further 12 seconds an Amp off comand is generated, then separated by 12 second pauses, Tuner On, and finally Tuner Off.

Specific band selection commands – press and hold the FM/AM key. The usual band toggle command is first, then the FM Mode command, followed by the AM Mode command is generated.

Specific Preset/Scan mode commands – Press and hold the Mode key. The usual mode toggle command is first, then the Scan Mode command, followed by the Preset Mode command.

Specific Mute On/Off commands – press and hold the Mute key. The usual mute toggle command is first, followed by the Mute On command, and then the Mute Off command.

A full code table for this product is available on the Cambridge Audio website at www.cambridge-audio.com.

USING THE REMOTE HANDSET

The 340T is supplied with a system remote control that operates both this tuner and Cambridge Azur amplifiers.



Power

Switches the 340T between On and Standby mode. The blue LED on the front panel of the 340T indicates that it is On when bright and in Standby mode when dim.

1 – 10 keys

These allow access to any stored presets you might have saved in the 340T.

10 + key

Allows access to preset stations 11-20.

Store

To store a preset with the remote press Store then use the |<< >>| buttons to select the desired preset location. Press store again to confirm.

FM/AM

This button switches between the FM and AM bands that the 340T is capable of receiving.

|<< >>|

For use with Tuning, Alarm and Clock settings.

Mode

Toggles between Scan and Preset modes, thereby changing the functionality of the |<< >>| buttons.

Clock

This button is used to access the Alarm menu as discussed in the Operation Instructions section of this manual.

i (Info)

Switches between the Display modes described in the Front Panel Controls section. The RDS information on the FM band is dependant on the strength of the signal.

Bright

Alters the brightness of the display backlight. There are three levels of brightness: Bright, Normal, and Off.

Please note that the following buttons will only operate a matching Cambridge Audio azur amplifier:

Volume +/-

Volume buttons to increase or decrease the Volume of the amplifier output.

Source Select

The five Source Select buttons and the Tape Monitor Select button are used to change the input source (CD, DVD etc).

Mute

This button mutes the audio on the amplifier. The Mute mode is indicated by the channel LED flashing.

TROUBLESHOOTING

There is no Power

Ensure the AC power cord is connected securely.

Ensure the plug is fully inserted into the wall socket and is switched on.

Check fuse in the mains plug or adaptor.

There is no sound

Ensure that the amplifier is set correctly.

Check that the interconnects are inserted correctly.

The sound is distorted or garbled

Check aerial connections and placements.

There is a hum coming from the speaker

Ensure that all cable connections are secure.

There is unwanted background noise and interference

Move the tuner away from other electrical equipment that is likely to cause interference.

The remote handset will not function

Check that the batteries have not expired.

Ensure that nothing is blocking the remote sensor.

SPECIFICATIONS

Frequency Range	FM (87.5–108 MHz) Europe FM (88–108 MHz) US AM (531–1602 kHz) Europe AM (530–1710 kHz) US
Aerial Inputs	75 ohms unbalanced (FM) 50 ohms unbalanced (AM)
FM Sensitivity	-25dBm typical
Signal to Noise	50 dB typical (FM) 47 dB typical (AM)
FM Frequency Response (± 3dB)	20Hz - 15KHz
Distortion	<0.3%, @ 1KHz, 50KHz deviation (FM) <0.9%, @ 1KHz (AM)
Stereo Separation @ 1KHz	>50dB (FM)
Maximum Power Consumption	7W
Standby Power Consumption	6.5W
Dimensions – H x W x D	70 x 430 x 305mm (2.75 x 17 x 12")
Weight	4.10kg (9 lbs)

LIMITED WARRANTY

Cambridge Audio warrants this product to be free from defects in materials and workmanship (subject to the terms set forth below). Cambridge Audio will repair or replace (at Cambridge Audio's option) this product or any defective parts in this product. Warranty periods may vary from country to country. If in doubt consult your dealer and ensure that you retain proof of purchase.

To obtain warranty service, please contact the Cambridge Audio authorised dealer from which you purchased this product. If your dealer is not equipped to perform the repair of your Cambridge Audio product, it can be returned by your dealer to Cambridge Audio or an authorised Cambridge Audio service agent. You will need to ship this product in either its original packaging or packaging affording an equal degree of protection.

Proof of purchase in the form of a bill of sale or receipted invoice, which is evidence that this product is within the warranty period, must be presented to obtain warranty service.

This warranty is invalid if (a) the factory-applied serial number has been altered or removed from this product or (b) this product was not purchased from a Cambridge Audio authorised dealer. You may call Cambridge Audio or your local country Cambridge Audio distributor to confirm that you have an unaltered serial number and/or you purchased from a Cambridge Audio authorised dealer.

This warranty does not cover cosmetic damage or damage due to acts of God, accident, misuse, abuse, negligence, commercial use, or modification of, or to any part of, the product. This warranty does not cover damage due to improper operation, maintenance or installation, or attempted repair by anyone other than Cambridge Audio or a Cambridge Audio

dealer, or authorised service agent which is authorised to do Cambridge Audio warranty work. Any unauthorised repairs will void this warranty. This warranty does not cover products sold AS IS or WITH ALL FAULTS.

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