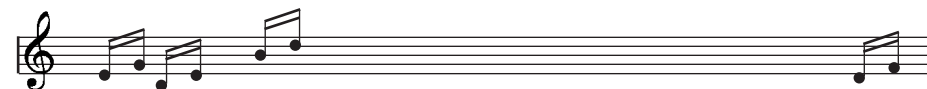


Creek T43



Operating Instructions



Thank you for purchasing the T43. You are now in possession of a State of the art AM/FM tuner. The T43 is a matching tuner for the 42, 43 and 52 series Creek product range, although it will work very well with any other manufacturers' amplifiers.

The functions and operation of the T43 are deceptively simple for the many features that it offers, which can also be remotely controlled. The following notes are provided to explain all aspects of its design and use.

T43 FUNCTIONS

Front panel controls

1. **Tuning** or **Pre-set** station selection, by rotary control knob, is toggled by the **Mode** selector.
2. **Band** push button selects FM, MW and LW for Europe, or AM/FM for North America. Custom frequencies and bands for other locations are factory set, but Creek dealers can re-program them if you have to move to a different zone.
3. **Search Up / Down** push button tunes up or down automatically, stopping on each usable station and rolling over at band ends.
4. **Mono** push button reduces noise on distant stations and changes the mute threshold to allow fringe stations to be received more easily.
5. **Store** allows selected stations to be memorised by the tuner in pre-set channel locations, separately on each wavelength.

Designed and made in the UK.



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6. **Mains On / Off** switches power from the mains.
7. **Infra-Red sensor** can receive remote control (RC5) instructions of all functions (except Mono), plus direct channel access through numeric keys from the tuner remote handset.
8. **LCD display** contains frequency, channel, centre tuning and signal strength information, together with all other function status in a highly visible green display.

FREQUENCY RANGES AVAILABLE FOR EUROPEAN MODEL:

FM	87	-	108	MHz	50 kHz increments manual, 100 kHz scanned
MW	522	-	1611	kHz	9 kHz increments
LW	144	-	288	kHz	9 kHz increments

FREQUENCY RANGES FOR THE NORTH AMERICAN MODEL:

FM	87	-	108	MHz	50 kHz increments manual, 100 kHz scanned
AM	530	-	1710	kHz	10 kHz increments

FREQUENCY RANGES FOR JAPANESE MODEL:

FM	76	-	90	Mhz	50 kHz increments manual, 100kHz scanned
AM	522	-	1611	kHz	9 kHz increments

FREQUENCIES AVAILABLE ON MODEL FOR THE REST OF THE WORLD:

FM	87	-	108	Mhz	50 kHz increments manual, 100kHz scanned
AM	522	-	1611	kHz	9 kHz increments

Rear Panel connections

1. 75 ohm coax FM aerial socket
2. 300 ohm balanced FM aerial screw terminals.
3. Wire AM aerial screw terminal.
4. Screw terminal chassis ground.
5. Stereo (RCA) phono sockets for analogue audio output.

CONNECTING THE T43

Power supply requirements

To operate the tuner it is necessary to first connect the unit to the mains supply via the power cord supplied. There is an IEC mains connector on the rear panel that contains a protection fuse. The power cord should be connected to it and to a domestic mains socket carrying 220-240V AC 50Hz or 110-120V AC 60Hz, depending on country of use.

Should it be necessary to replace the fuse, ensure that you use the same type as specified on the rear panel. i.e: **5 x 20mm cartridge type T 500 mA surge resisting for 220-240V 50Hz AC, T 1 A surge resisting for 110-120V 60Hz AC or a T 1A surge resisting for 100V (Japan).**

Antenna requirements

To obtain the best quality FM signal, in stereo with low background noise, it is necessary to use a good antenna (aerial), preferably mounted on a roof of a building, or in an attic or loft. A 75 ohm co-axial cable should be used to bring the radio signal to the tuner. Use a good quality 75 ohm co-ax plug to connect the radio signal into the rear panel socket marked: *FM antenna 75 ohms*. In some parts of the world 300 ohm balanced feeder cable is more popular, in which case it should be connected to the 300 ohm screw terminals only.

If it is not possible to use an outdoor aerial, a balanced 300 ohm indoor T-antenna will give reasonable results when connected to the 300 ohm terminals. Note that the direction of the T-piece with respect to the transmitter site will affect the strength and quality of reception, giving more or less noise, especially on stereo signals.

The AM part of the radio will work very well using a single wire from one side of the 300 ohm aerial terminal, or just from a 300 ohm T-antenna. Place the provided 2M length of thin stranded wire behind the equipment and adjust its position with respect to the direction of the transmitter to improve reception.

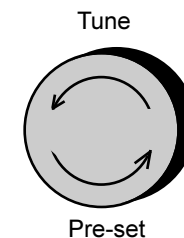
Output from the tuner

To connect the audio signal from the tuner to an amplifier it is necessary to use a pair of cables terminated with (RCA) phono plugs. Shielded types of interconnect are better for reducing hum or other interference pick-up. Don't sacrifice quality for price in this important area.

OPERATING THE T43

Manual and Pre-Set tuner operation

The large control knob on the right side of the panel has two functions. First, it will manually tune the radio up and down smoothly to receive stations on AM or FM. The second function is to select Pre-Set stations from the tuner's memory. To distinguish between these two functions, the LCD display has both frequency and channel number indication on the right (see diagram below).



The frequency of the station will always be displayed, but the Pre-Set channel will only show when the tuner is in Pre-Set mode, selected by the **MODE** select button. The button toggles between one state and the other. The T43 will remember the last tuned frequency or pre-set after switching off, so it can be restored when switching back on.

Band selection

Two or three wave bands are available by repeatedly pressing the **BAND** button. It will toggle between MW, LW and FM, or between AM and FM, depending on the country of use.

Stereo / Mono

The button marked **MONO** has two functions. Firstly, it reduces the noise of distant stereo stations. Secondly, in Mono inter-station muting is disabled making it easier to pick up fringe stations that would normally be below the mute threshold.



Search up & Search down

Instead of tuning the radio manually with the tuning knob, **SEARCH** operation will automatically search up and down the band, at 100kHz increments in FM and 9 or 10 kHz increments on AM, looking for stations to be received with an acceptable background noise. It will stop on each one, until asked to continue searching up or down by pressing the Up/Down **SEARCH** button again. Searching causes **Auto** to display.



Store

To allow favoured stations to be stored in the tuner's NV (non-volatile) memory, select **Manual tune** by pressing the **MODE** button and the desired **Band**. Tune *manually* with the rotary knob or **SEARCH** until you reach a station you wish to be memorised. Press the **STORE** button once briefly. The **Memory** indicator on the display will start to flash on and off. Turn the rotary **Pre-Set** knob until the desired location number is



reached. Press the **STORE** button firmly for three seconds until the Memory indicator on the LCD display stops flashing. The station will be stored in that location number displayed on the right hand side of the display.

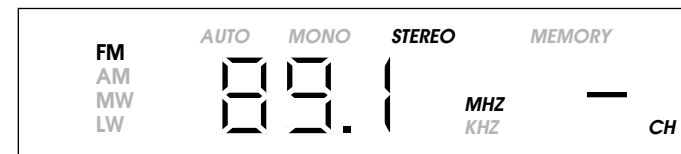
Repeat as necessary to store your favoured stations in the memory. A maximum of **29 stations** can be stored in both MW/AM and FM and **10** in LW (Europe only). Return to standard operation by pressing **MODE** again.

Tuning and signal strength indicator

When tuning manually to a station, the last digit of the channel indicator shows the correct direction to tune into a station. An arrow head, pointing up or down, shows the direction to turn the knob to reach the optimum signal strength of a station.

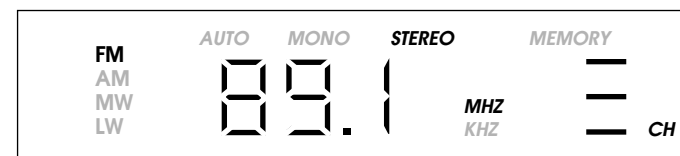


When tuned correctly, the up/down arrows will give way to a single bar across the middle of the last digit, indicating optimum tuning.



When the **Pre-Set** mode is in operation the centre tune indicator will not be visible. Channel numbers only will be seen.

In **Manual** mode, the tuning indicator will be replaced by a signal strength indicator. Three seconds after the tuning knob has stopped turning, the signal level will be indicated by up to three horizontal bars on the right hand side of the channel number: 1 bottom bar will mean noisy operation, two bars indicate stronger signal, and three bars will give a good noise free operation (see diagram below).



REMOTE CONTROL OPERATION

Nearly every function of the tuner is available via the remote control, with the exception of continuous tuning, which is only available from the knob on the front panel.

Pre-sets

It is possible to tune directly to a pre-set station location from the remote control by pressing the numeric keypad. Timing is important here. Selecting channel 1 requires the user to select Mode, then press 1 and the tuner will immediately go to channel 1 in the correct wave band. Selecting 10 will first take the tuner to channel 1 before then going to channel 10. The tuner will wait for 2 seconds before assuming the first number is final. A maximum of 29 pre-sets locations are available on FM and AM/MW. LW has a maximum of 10 pre-set locations.

Volume up Down and Mute

If the T43 is used in conjunction with any of the current Creek remote controlled amplifier products, such as the OBH-10 and OBH-12, the 4330R, the 5250R and 5250SE etc, it is possible to control the volume and mute from the T43 remote control handset, without the need to pick up the dedicated amplifier handset.

N.B. Only Creek amplifiers made after September 1997 will allow this feature.

CREEK T43 SPECIFICATION

Wave Bands	FM	87 - 108 MHz
	MW/AM	522 - 1611 kHz
	or	530 - 1710 kHz
Europe only	LW	144 - 288 kHz
Frequency increments	50 KHz FM	9 kHz AM (10 kHz for America)
		100 kHz auto
Sensitivity (IHF 50dB)	< 20 µV mono, < 100 µV FM stereo	
Selectivity (IHF)	> 70 dB ± 0.4 MHz FM	
	> 60 dB ± 15 kHz AM	
Number of pre-sets	29 - FM & AM/MW	6 - LW
Frequency response FM only	20 Hz to 16 kHz -1 dB	
Total Harmonic Distortion	< 0.3% (FM), < 3% (AM)	
Stereo Separation FM only	> 30 dB	
Signal to Noise Ratio FM only	> 69 dB (full limiting)	
Output voltage	500 mV RMS for 50 kHz deviation	
Aerial connections	300 Ω and 75 Ω co-ax	
Remote control protocol	RC5 (Philips)	
Power consumption max	7 VA	
Power supply voltage	220/240 V AC 50 Hz UK, Europe and Asia	
	100/120 V AC 60 Hz North America, Japan	
Size	42 x 6 x 22	
	16.5 x 2.4 x 8"	
Weight	3Kgs - 7lb	

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