

FM4 TUNER

INSTRUCTION BOOK

QUAD

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Tuner

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Accessories

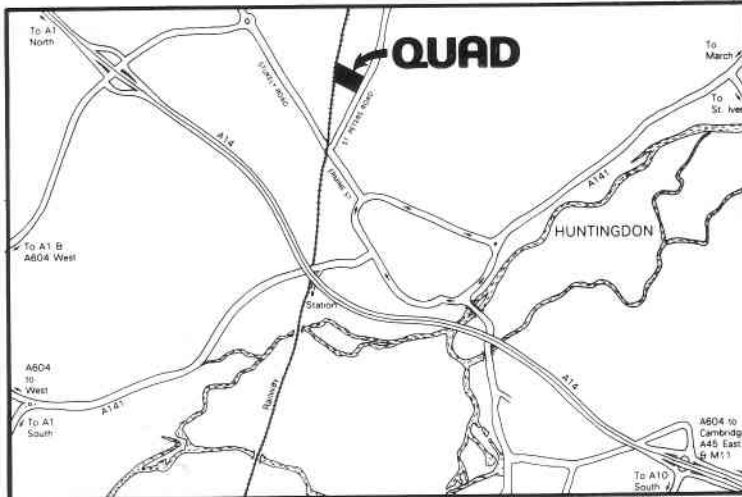
The FM4 is supplied with

1 x A.C. Lead	QSPSSA
1 x Signal Lead	QP2P2SA
1 x Aerial Connector	PPL734A

Service

If servicing is required the tuner should be returned to the supplier, the distributor for the country of purchase or to Quad Electroacoustics Ltd. A brief note should be enclosed giving your name and address and the reason for returning it.

QUAD offers same-day service from Monday to Friday except for bank holidays. The map below shows where to find us. Please call 0480 52561 to make an appointment.



IMPORTANT

THE CARDBOARD CARTON AND EXPANDED POLYSTYRENE PACK SHOULD BE RETAINED IN CASE THE UNIT HAS TO BE RETURNED TO THE MANUFACTURER OR DISTRIBUTOR FOR SERVICE.

Guarantee

This tuner is guaranteed against any defect in material and workmanship for a period of twelve months from the date of purchase.

Within this period we undertake to supply replacement parts free of charge provided that failure was not occasioned by misuse, accident or negligence. Freight and labour costs are not covered unless by local agreement.

Within the U.K. the guarantee offered with this equipment does not limit the consumer's existing statutory rights. A separate guarantee card is not supplied with your Quad unit. Your guarantee begins on the day on which you take delivery.

Circuit diagrams and service data for this Quad product are available from the manufacturer or distributor for a small charge.

INTRODUCTION

The Quad FM4 is a self powered stereo tuner covering the FM band (88 - 108 MHz) only and designed to be used in conjunction with Quad and similar high quality pre-amplifiers.

The entire operation of the tuner is controlled by a microprocessor so that the only controls on the tuner are an on/off switch, tuning knob, and pre-selector buttons.

Up to seven stations can be stored in the tuner's memory and recalled at the touch of a button.

Manual tuning is accomplished in the normal manner in the sense that the tuning knob is turned clockwise to move up the frequency band and vice versa. The frequency tuned is displayed digitally and a bar graph gives simultaneous indication of signal strength and centre channel tuning.

BRIEF INSTRUCTIONS

Plug the A.C. and signal leads supplied into the Quad Control Units and FM4.

Connect a suitable 75 Ω aerial.

Switch on.

Press .

Tune in desired station. See list at the back of this book.

Press and hold and press desired preset.

When red LED extinguishes and green LED lights, station is stored in the tuner's memory.

INSTALLATION

The Quad FM4 may either be used free standing or mounted in a cabinet panel of up to 15 mm thick.

If it is to be panel mounted cut a rectangular aperture 312 mm x 56 mm in the panel.

Remove the two screws from the rear of the cover and slide the cover off.

Insert the tuner into the aperture from the front, replace the cover from the rear, insert the two screws and tighten until finger tight and then give one additional half turn to each screw to lock securely.

The tuner requires no ventilation.

CONNECTIONS

The FM4 is supplied with leads and connectors for direct connection to the Quad Control Unit.

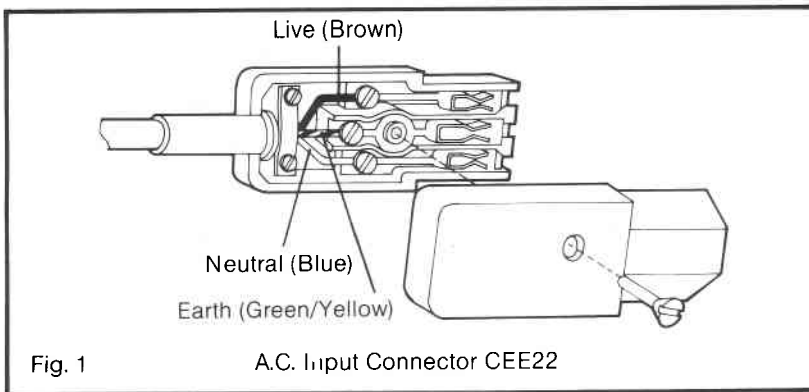
A.C. Mains Supply

This tuner is designed to operate on one range of A.C. mains voltage only, 50 or 60 Hz, either 110/120 volts or 220/240 volts.

The designed operating voltage of the tuner is clearly marked on the back.

BEFORE CONNECTING TO THE A.C. SUPPLY CHECK THAT THE VOLTAGE MARKED ON THE BACK CORRESPONDS WITH THAT OF THE A.C. SUPPLY.

The A.C. mains input is via the standard 3-pin Euro connector supplied wired in accordance with the international code (see Fig. 1) and will normally be drawn from the outlet on the rear of the Quad pre-amplifier.



A surge-resisting fuse (63mA for 220/240V, 100mA for 110/120V) housed in the mains input receptacle in the rear panel provides the usual protection. To obtain access to the fuse, unplug the mains supply and use a small screwdriver to lever open the drawer carrying the fuse. (see Fig. 2).

If a replacement fuse has to be fitted, make sure that it is of the correct type. The marking will be T63mA (T100mA for 110V).

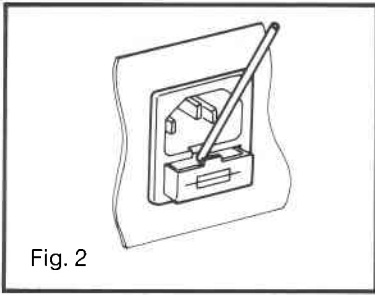


Fig. 2

An unswitched A.C. outlet supplies appropriate additional equipment and the shrouded plug supplied with the amplifier (wired as shown in Fig. 3) is for use with this outlet (see Fig. 4).

The maximum steady state current drawn from the A.C. outlet should not exceed 4 amps.

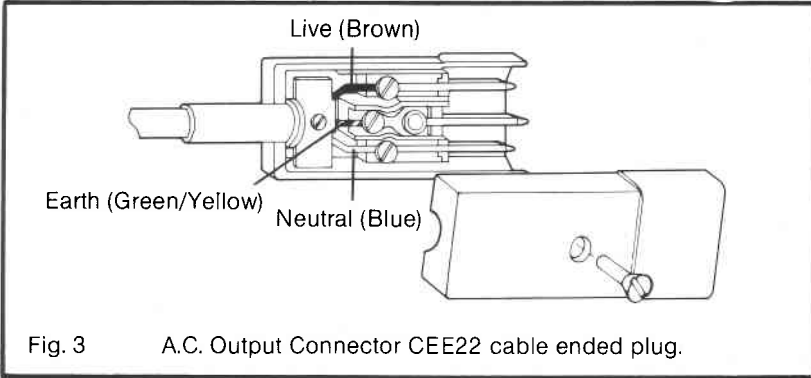


Fig. 3 A.C. Output Connector CEE22 cable ended plug.

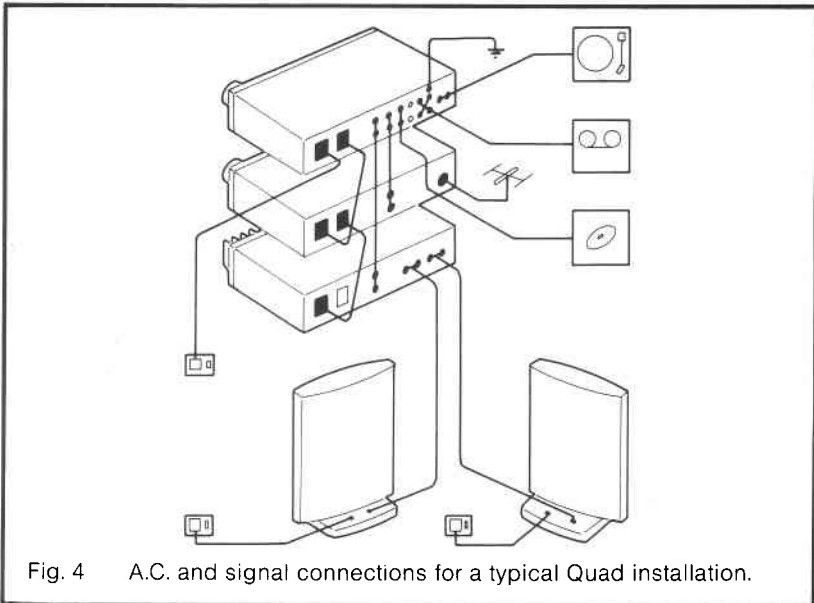


Fig. 4 A.C. and signal connections for a typical Quad installation.

Aerial

The performance of the FM4 is entirely dependent upon the signal strength received from the aerial. Optimum signal to noise will be achieved with a signal strength of between 1mV and 100mV and not in excess of 500mV.

Your local aerial contractor or Quad dealer will be able to advise on the antenna system which will give the best results in your area, but in most cases a correctly orientated external multi-element array will give best results.

The FM4 is designed to operate from a standard 75Ω co-axial feeder, and indoor ribbon aerials should not be used.

Output

Signal output is via phono sockets, clearly marked L (left) and R (right).

If the tuner is used with a Quad 33/34/44 control unit with a DIN input socket, you will need a 5-pin-DIN-to-2-phono-plugs lead. This may be obtained from QUAD, or your dealer by quoting part number QD5FP2A.

The output of the FM4 is nominally 100mV for 30% programme modulation.

Controls

The Quad FM4 is equipped with an on/off switch, a tuning knob, seven preset station selection buttons, and a manual button which is also used in conjunction with one of the preset station buttons to store a desired frequency in the tuner's memory.

The tuned frequency is displayed digitally and a twin bar graph provides simultaneous indication of signal strength and centre tuning. Stereo transmissions light the stereo indicator.

All other functions are controlled automatically by the microprocessor. With manual selected interstation muting and AFC are switched out enabling all stations, whether strong or weak to be tuned in. When a preset station is selected the tuner is automatically muted until the desired station has been correctly tuned.

The FM4 remembers the last station used and automatically reverts to it when switched on.

The FM4 supplied in the U.K. is provided with preset station buttons marked:-

- For a fourth BBC VHF Channel (where available)

- BBC Radio 1/2

- BBC Radio 3

- BBC Radio 4

- Independent local Radio 1

- Independent local Radio 2

- BBC Local Radio

FM4s supplied to the rest of the world have preset buttons marked to .