

Kit 1144 and 1187 Set-Up Information

KIT 1144

Capacitor (C7) is for crystal frequency fine tuning if you have an oscilloscope.

The red LED (L1) indicates PLL locking. If the LED is on, the PLL is in the pre-settable frequency. The anode (long pin) goes to the left, cathode to the right (where L1 is printed).

An input voltage of 28V at V1 is required for complete FM waveband (88-108 MHz) coverage. It is required for correct varicap operation. You can use one 15V volt power supply for both V1 and V2 but you will have a partial coverage of the band.

NOTE: C2 , & 4 = 1nF (102) and C5 = 100pF (101).

CN1

- | | |
|---|-----------------------|
| 1 | Output |
| 2 | GND |
| 3 | Varicap voltage input |

CN2

- | | |
|---|--|
| 1 | 1 and 2 bridging: Frequency adjustment from PLL |
| 2 | 2 and 3 bridging: Frequency adjustment by trimmer. |

CN3

- | | |
|---|--|
| 1 | 1 and 2 bridging: Stereo broadcasting. |
| 2 | 2 and 3 bridging: Mono broadcasting. |

KIT 1187

Trimmer RV1 adjusts varicap's voltage and changes frequency.

Trimmer RV2 is the audio signal volume control.

Trimmer RV3 is for Vu-meter adjustment (see M1 below). A large signal forces the Vu-meter needle to hit the right side of the meter. RV3 allows you to adjust the meter not to exceed the maximum scale.

M1 is a typical Vu-meter for optical readout of audio signal.

CV1 and CV2

These are for frequency adjustment. Set for maximum indication in a SWSR bridge with 50 OHM load.

For better operation without hum and other interference you must connect the top and bottom ground planes of the PCB together.

Ordering

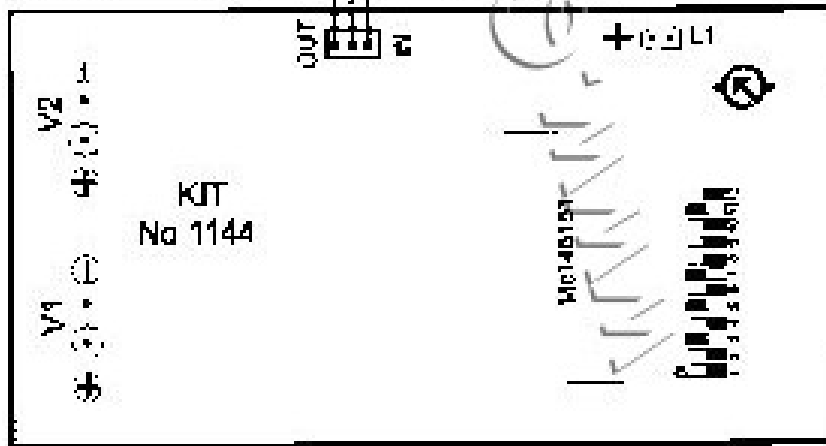
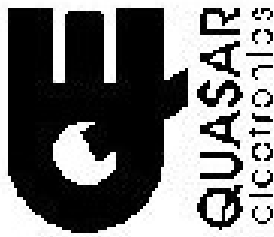
For pricing info and online ordering please visit:

<http://www.quasarelectronics.com/1144.htm> and
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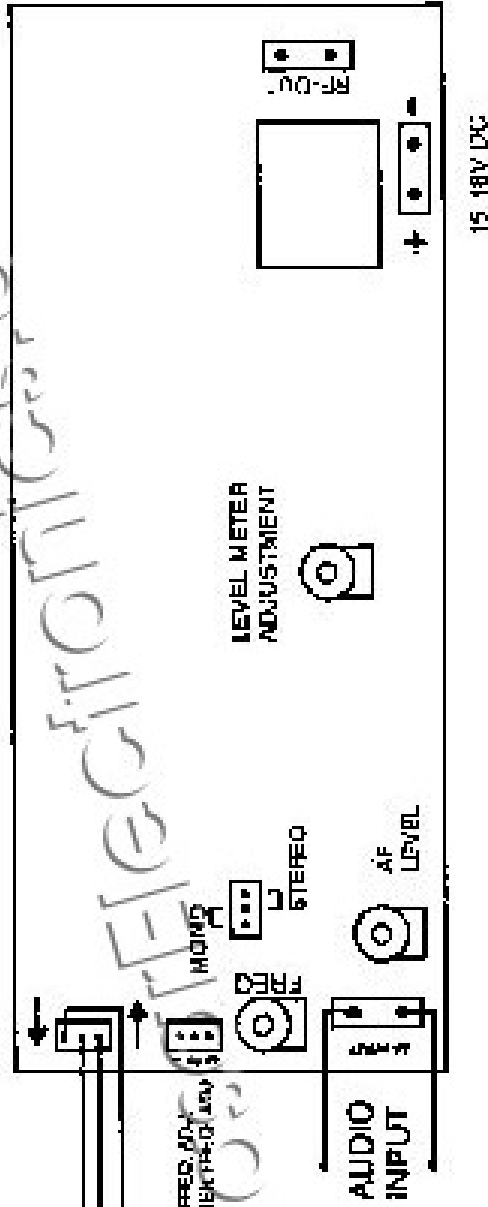
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KIT No 1187 CONNECTION DIAGRAM



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