

T800 Ancillary Equipment

This Part of the manual features a brief description of the major ancillaries that may be used with T800 series equipment. For a comprehensive list of available ancillary equipment, please contact your nearest approved Tait Dealer or Service Centre.

T318-02 Receiver/Transmitter Monitor

The T318-02 is designed to monitor the basic operational functions of one T800 receiver and transmitter. The meter and selector switches for monitoring the required functions are mounted on the front panel, as is the monitor speaker which is driven by a built-in amplifier. An optional mute circuit may be used to silence the audio when no carrier is present.

Refer to M318-02.

T708-91/92 Mains Power Supplies

The T708-91/92 mains power supplies are designed to power the T800-60 Slimline Repeater and mount on the front panel instead of the options tray. Two versions are available:

- T708-91 230V/50Hz mains supply
- T708-92 120V/60Hz mains supply.

The units are electrically the same as (although mechanically different from) the T708-01 and T708-02 respectively.

Refer to M700-00 or M708-01.

T800-01-001 Programming Kit

The T800-01-001 kit is used for programming T800 series base station equipment and must be used in conjunction with a PC, an EPROM programming device and appropriate software capable of programming an EPROM from an Intel hex format or binary file.

The kit comprises the following items:

- PGM800Win programming software user's manual
- PGM800Win programming software on 3½" floppy discs.

T800-02 CTCSS Dencoder

The T800-02 CTCSS unit is designed to operate with the T800 range of receivers and transmitters. It will encode and decode CTCSS tone frequencies within the range 67 to 250.3Hz and is compatible with any other CTCSS unit which conforms to EIA RS220.

Refer to TI-346.

T800-03 Auxiliary D-Range

The T800-03 is an additional D-range kit comprising 1 D-range plug assembly, 1 D-range socket and 2 locating pins, nuts & washers.

T800-04 RSSI

The T800-04 RSSI option PCB plugs directly into the main PCB (support circuitry being fitted as standard). It is fitted to the T855, T875 and T885 whenever receiver signal strength monitoring is required, e.g. trunking or voting. Its function is to provide a DC voltage proportional to the signal level at the receiver input.

Refer to the appropriate service manual.

T800-05 Guide Rail

The standard T800 series guide with one D-range socket for mounting in the standard 483mm rack frame assembly.

T800-06 External Frequency Reference Kit

The T800-06 kit features an additional D-range plug which incorporates a miniature RF connector to carry an externally generated 12.8MHz reference signal into a T800 module. This enables the use of very high stability external reference oscillators for special applications.

T800-07 Multichannel Kit

The T800-07 is a plug-in multichannel memory PCB (supplied with connecting cable) which is intended as a substitute for the T800-10 memory PCB. Up to 128 channels may be addressed via the on-board DIP switch or remotely via the T800-03 D-range kit. CTCSS frequencies may also be stored alongside channel information within the EPROM.

Refer to TI-356.

T800-10 Memory Module

The T800-10 is the standard, plug-in T800 channel memory PCB.

T800-13 Extender Rail

The T800-13 extender rail allows a T800 unit to be operated out of the rack with the covers off for tuning purposes. It is fitted with two 15-way D-range connectors.

T800-14 Extender Rail

The T800-14 extender rail allows a T800 unit to be operated out of the rack with the covers off for tuning purposes. It is fitted with one 15-way D-range connector and one 11-way D-range incorporating a miniature RF connector for an externally generated reference signal.

T800-15 Speaker Panel

A 60mm speaker panel fitted with a 4 Ω speaker and complete with mounting hardware.

T800-16 Speaker Panel (formerly T359-01)

A 120mm speaker panel fitted with a 75mm x 125mm 4 Ω speaker and complete with mounting hardware.

T800-19 Rack Mounting Fan

The T800-19 kit features a rack mounting fan which is designed to fit into the base of any standard 483mm rack frame without affecting its ability to house 7 modules. The kit contains all mounting hardware.

T800-20 Pre-wired Rack

The T800-20 is a standard 5U high rack which is wired to accommodate one 25, 50 or 100W base station or repeater. It comes complete with a T800-15 speaker panel and T992-01 blank panel.

T800-21 Pre-wired Rack With Interface PCB

The T800-21 is a standard 5U high rack which is wired to accommodate one 25, 50 or 100W base station or repeater. It is also fitted with an interface PCB containing a 25-way D-range to allow the easy integration of OEM products into the base station or repeater configuration. The T800-21 comes complete with a T800-15 speaker panel and T992-01 blank panel.

T800-30 & T800-35 DFSK Modulators

The T800-30 and T800-35 are DFSK modulators for T800 transmitters, suitable for POC-SAG or similar paging data formats. Analogue transmissions (e.g. tone or speech) are still possible by disabling the data path via a control line. 512 or 1200 baud data rates are link selectable. The T800-35 is adapted for use with an external reference oscillator for simulcast transmission.

Refer to TI-373.

T800-60 Slimline Repeater Mounting Kit

The T800-60 Slimline Repeater kit enables one T800 receiver and one T800 transmitter to be mounted horizontally side-by-side in a standard 483mm rack frame. The kit contains a front panel complete with speaker, an options tray (for mounting a power supply, duplexer, etc.), and a wiring loom to connect the two T800 modules to the terminal blocks mounted on the rear of the options tray. The T708-91/92 mains power supplies (available separately) are designed for use with the T800-60. The rack height of the assembled unit is 2U.

T800-80 Local Microphone

A 600Ω microphone complete with 300mm cord terminated in a ¼" stereo plug.

T800-81 Narrow Band Conversion Kit

The T800-81 kit provides the components required to convert one T835 receiver from 25kHz channel spacing to 12.5kHz channel spacing for narrow band operation.

T800-82 Narrow Band Conversion Kit

The T800-82 kit provides the components required to convert one T836 transmitter **or** one T837 exciter from 5kHz deviation to 2.5kHz deviation for narrow band operation.

T800-83 Narrow Band Conversion Kit

The T800-83 kit provides the components required to convert one T855 receiver from 25kHz channel spacing to 12.5kHz channel spacing for narrow band operation.

T800-84 Narrow Band Conversion Kit

The T800-84 kit provides the components required to convert one T856 transmitter **or** one T857 exciter from 5kHz deviation to 2.5kHz deviation for narrow band operation.

T801 Frequency Reference Module

The T801 frequency reference module provides a high stability frequency source to which the synthesiser within a T800 base station can be locked. The master standard within the T801 is primarily intended to be rubidium, although high quality ovenised crystal oscillators can also be used in applications where more frequent readjustment of frequency is acceptable. The T801 converts the output frequency from its master standard to the 12.8MHz required by the T800 base station.

Refer to M801-00.

T801-10 OCXO Module

The T801-10 OCXO module provides a high stability frequency source to which the synthesiser within a T800 base station can be locked. This will provide T800 transmitters with the frequency stability required for simulcast transmission. The master standard within the T801-10 is a high quality ovenised crystal oscillator (OCXO). Three outputs are provided on the rear panel, which allows up to three T800 transmitters to be referenced to the source oscillator.

T802-00 Remote Monitor

The T802-00 is a microprocessor controlled remote monitor unit designed for use with Tait base station equipment. Each remote base requires one T802-00 which communicates via its integral modem with a centrally located PC based controller. The PC controller runs software to convert the raw data from the T802-00 into a user friendly form.

Refer to M802-00.

T802-10 RF Splitter

The T802-10 RF splitters are used to take attenuated RF from the transmitter to the T802-00 where it is mixed onto the receiver frequency by the shift mixer. This RF is then inserted via another splitter into the receiver. Each T802-10 kit contains 2 identical RF splitter modules.

Refer to M802-00.

T802-20 Modem & Programming Kit

The T802-20 kit provides a modem and the operating software for the T802-00 remote monitor PC controller and comprises the following items:

- a CCITT V.23 modem
- T802-00 PC software user's manual
- T802-00 PC software on a 5¼" floppy disc.

T802-21 Programming Kit

The T802-21 kit provides the operating software for the T802-00 remote monitor PC controller and comprises the following items:

- T802-00 PC software user's manual
- T802-00 PC software on a 5¼" floppy disc.

T802-22 Modem

A CCITT V.23 modem for use with the T802-00 PC controller.

T806 Mains Power Supply

The T806 is a power supply capable of supplying up to 6A at 11-14V DC and is available in 2 versions to suit a mains supply of either 230V/50Hz or 115V/60Hz (nominal values). The T806 is designed to power T800 series 25W transmitters (plus receivers, etc.) and comes complete with a guide to mount in a standard 60mm rack frame assembly.

Refer to M806-00.

T807 Mains Power Supply

The T807 is a switching power supply capable of supplying up to 15A at 11-14V DC. It requires a mains supply of 230V/50Hz or 115V/60Hz (nominal values) which can be internally selected with a switch or wire links. The T807 is designed to power T800 series 50W transmitters (plus receivers, etc.) and comes complete with a guide to mount in a standard 60mm rack frame assembly.

Refer to M807-00.

T808 Mains Power Supply

The T808 is a switching power supply capable of supplying up to 25A at 11-14V DC. It requires a mains supply of 230V/50Hz or 115V/60Hz (nominal values) which can be internally selected with a switch or wire links. The T808 is designed to power T800 series 100W transmitters (plus receivers, etc.) and comes complete with a guide to mount in a standard 60mm rack frame assembly.

Refer to M807-00.

T1500-50 Trunking Extra D-Range (formerly T800-50)

Trunking systems require additional outputs for flat audio (FFSK) and Rx line monitoring. This kit provides the components to connect these outputs via a second D-range.

T1500-51 Trunking Transmitter Interface (formerly T800-51)

When fitted to a T800 series transmitter, the T1500-51 trunking transmitter interface PCB allows the trunking system to switch the audio processor between FFSK and normal audio. The PCB comes complete with wires, sockets and screws, but a T800-03 auxiliary D-range kit will also be required.

KS820 Spares Kit

The KS820 spares kit contains all the parts on the T820 series recommended spares list and is intended to provide enough spares to maintain a single installation of up to ten channels. Included in the kit are electrical and mechanical parts that are either unique to Tait equipment, hard to obtain or susceptible to damage or wear and tear. All parts are securely packed in clearly labelled screw top containers in a handy plastic carry case.

Note: The kit does not contain standard chip capacitors or resistors.

KS830 Spares Kit

The KS830 spares kit contains all the parts on the T830 series recommended spares list and is intended to provide enough spares to maintain a single installation of up to ten channels. Included in the kit are electrical and mechanical parts that are either unique to Tait equipment, hard to obtain or susceptible to damage or wear and tear. All parts are securely packed in clearly labelled screw top containers in a handy plastic carry case.

Note: The kit does not contain standard chip capacitors or resistors.

KS850 Spares Kit

The KS850 spares kit contains all the parts on the T850 series recommended spares list and is intended to provide enough spares to maintain a single installation of up to ten channels. Included in the kit are electrical and mechanical parts that are either unique to Tait equipment, hard to obtain or susceptible to damage or wear and tear. All parts are securely packed in clearly labelled screw top containers in a handy plastic carry case.

Note: The kit does not contain standard chip capacitors or resistors.

KS880 Spares Kit

The KS880 spares kit contains all the parts on the T880 series recommended spares list and is intended to provide enough spares to maintain a single installation of up to ten channels. Included in the kit are electrical and mechanical parts that are either unique to Tait equipment, hard to obtain or susceptible to damage or wear and tear. All parts

are securely packed in clearly labelled screw top containers in a handy plastic carry case.

Note: The kit does not contain standard chip capacitors or resistors.