

Part B T885 Receiver

This part of the manual is divided into six sections, as listed below. There is a detailed table of contents at the start of each section.

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2	Circuit Operation
3	Initial Tuning & Adjustment
4	Functional Testing (not available for Initial Adjustment manual)
5	Fault Finding (not available for Initial Adjustment manual)
6	PCB Information

1 T885 General Information

This section provides a brief description of the T885 receiver, along with detailed specifications and a list of types available.

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1.1 Introduction

The T885 is a high performance microprocessor controlled FM base station receiver designed for single or multichannel operation in the 800 to 960MHz frequency range¹.

The receiver is a dual conversion superhet with a synthesised local oscillator. The first IF is 45.0MHz, allowing exceptionally high spurious signal rejection to be achieved in the receiver front end. The second IF section (455kHz) combines amplitude limiting, detection, audio preamplification and RSSI within a single integrated circuit. This IC also drives a noise level detector for gating the audio output. RSSI can also be used to drive a carrier mute for audio output gating (link selectable).

The audio section output can be adjusted to deliver >+10dBm to a 600 ohm balanced output, and 1W to a local monitor speaker. A flat or de-emphasised audio response is link selectable.

The synthesiser frequency is programmed via the serial communications port. Eight channel select lines are accessible via an additional D-range connector (D-range 2 - T800-03-0000) at the rear of the set.

All components are mounted on a single PCB. This is secured to a die-cast chassis which is divided into compartments to individually shield each section of circuitry. Access to both sides of the main PCB is obtained by removing each of the two chassis covers. There is provision within the chassis to mount small option PCBs.

The front panel controls include gating sensitivity, line level, monitor volume and a monitor mute switch.

The T885 has a width of 60mm and occupies a single space in a Tait rack frame, which has the ability to accommodate up to seven standard modules.

1. Although capable of operating over the 800-960MHz frequency range, the T885 has a 6MHz switching range (see [Section 1.2.3](#) and [Section 3.1](#)).

1.2 Specifications

1.2.1 Introduction

The performance figures given are minimum figures, unless otherwise indicated, for equipment tuned with the maximum switching range and operating at standard room temperature (+22°C to +28°C) and standard test voltage (13.8V DC).

Where applicable, the test methods used to obtain the following performance figures are those described in the EIA specification. However, there are several parameters for which performance according to the CEPT specification is given. Refer to [Section 1.2.6](#) for details of test standards.

Details of test methods and the conditions which apply for Type Approval testing in all countries can be obtained from Tait Electronics Ltd.

The terms "wide bandwidth" and "narrow bandwidth" used in this and following sections are defined in the following table.

	Channel Spacing	Modulation 100% Deviation	Receiver IF Bandwidth
Wide Bandwidth	25kHz	±5.0kHz	15.0kHz
Narrow Bandwidth	12.5kHz	±2.5kHz	7.5kHz

Sensitivity and distortion figures are stated for standard operating conditions which includes audio de-emphasis. Note that the sensitivity and distortion figures will be degraded when flat audio is selected.

	Link PL210 ^a	Link PL220 ^a
De-emphasised Audio	1-2	2-3
Flat Audio	2-3	1-2

a. Pin 1 is identified by the number "1" screen printed onto the PCB beside each set of links.

1.2.2 General

Number Of Channels	.. 128 (standard) ¹
Supply Voltage:	
Operating Voltage	.. 10.8 to 16V DC
Standard Test Voltage	.. 13.8V DC
Polarity	.. negative earth only
Polarity Protection	.. crowbar diode
Supply Current:	
Standby	.. 350mA
Full Audio	.. 800mA
Operating Temperature Range	.. -30°C to +60°C
Dimensions:	
Height	.. 183mm
Width	.. 60mm
Length	.. 322mm
Weight	.. 2.13kg

1.2.3 RF Section

Frequency Range	.. 800-960MHz
Type	.. dual conversion superheterodyne
Frequency Increment	.. 5 or 6.25kHz
Switching Range	.. 6MHz (i.e. ± 3 MHz from the centre frequency)
Input Impedance	.. 50 ohms
Frequency Stability (see also Section 1.4)	.. ± 1 ppm, -20°C to +60°C .. ± 1.5 ppm, -30°C to +60°C
Signal Strength Indicator (RSSI optional)	.. -115dBm to -70dBm, 0 to 5V at approx. 10dB/V

1. Additional channels may be factory programmed. Contact your nearest Tait Dealer or Customer Service Organisation.

IF Amplifiers:

Frequencies	.. 45MHz and 455kHz
Bandwidths-	
Narrow Bandwidth (NB)	.. 7.5kHz
Wide Bandwidth (WB)	.. 15kHz

Sensitivity (De-emphasised Response):

Single Channel	.. -117dBm
Bandsread (12dB Sinad)	.. -115dBm (across switching range)

Sensitivity (Flat Response):

Single Channel	.. -111dBm
Bandsread (12dB Sinad)	.. -109dBm (across switching range)

Signal+Noise To Noise Ratio (De-emphasised):

RF Level -107dBm	.. 24dB typical (NB & WB)
RF Level -83dBm (CEPT)	.. 45dB minimum, 47dB typical (NB)
RF Level -57dBm (EIA)	.. 47dB minimum, 49dB typical (WB)

Selectivity:

Narrow Bandwidth (± 12.5 kHz)	.. 79dB minimum, 80dB typical (CEPT)
Wide Bandwidth (± 25 kHz)	.. 85dB minimum, 88dB typical (EIA)

Offset Selectivity (Canada only) .. 20dB

Spurious Response Attenuation .. 100dB (typical)

Intermodulation Response Attenuation:

Narrow Bandwidth	.. 75dB CEPT (typical)
Wide Bandwidth	.. 80dB EIA

Blocking .. 100dB

Co-channel Rejection .. 6dB

Amplitude Characteristic .. 3dB

Spurious Emissions:

Conducted	.. -90dBm to 4GHz
Radiated	.. -57dBm to 1GHz -47dBm to 4GHz

Group Delay .. +200/OFS (300Hz to 3kHz)

1.2.4 Audio Section

1.2.4.1 General

Outputs Available	..	line and monitor
Frequency Response	..	flat or de-emphasised (750µs) (link selectable)
Flat Response:		
Bandwidth	..	67 to 3400Hz
Response	..	within +1, -2dB of output level at 1kHz
De-emphasised Response:		
Bandwidth	..	300 to 3400Hz
Response	..	within +1, -3dB of a -6dB/octave de-emphasis characteristic (ref. 1kHz)
Line Output:		
Power	..	adjustable to >+10dBm
Load Impedance	..	600 ohms
Distortion (@ -70dBm signal level):		
		<u>De-emphasised</u> <u>Flat</u>
Wide Bandwidth	..	≤2% ≤2%
Mid & Narrow Bandwidth	..	≤2% ≤4%
Monitor Output:		
Power	..	1W
Speaker Impedance	..	4 ohms
Distortion	..	≤3%
(@ -70dBm signal level, links set to de-emphasis)		

1.2.4.2 CTCSS

Linkable High Pass Filter:		
Bandwidth	..	350 to 3400Hz
Response	..	within +1, -3dB of level at 1kHz
Hum And Noise	..	30dB min. at 250.3Hz
(1kHz at 60% system deviation		35dB typical (67 to 240Hz)
CTCSS at 10% system deviation)		
Tone Detect:		
Tone Squelch Opening	..	better than 6dB sinad 3dB sinad at 250.3Hz (typical) 4dB sinad at 100Hz (typical)
Tone Detect Bandwidth	..	±2.1Hz accept (typical) ±3.0Hz reject (typical)
Response Time	..	150ms open and close (typical)

1.2.4.3 Mute Operation

Systems Available .. noise mute and carrier mute

Noise Mute:

Operating Range	.. 6-20dB sinad
Hysteresis	.. 1.5 to 6dB
Threshold	.. adjustable to -105dBm
Opening Time	.. 20ms
Closing Time	.. 50ms

Carrier Mute (Optional):

Operating Range	.. -115 to -80dBm
Hysteresis	.. 2 to 10dB
Opening Time	.. 5ms
Closing Time	.. 50ms

Note: The opening and closing times given above are for the standard setup (SL210 linked and SL220 not linked - refer to [Section 3.8](#)).

1.2.5 Microprocessor Controller

Auxiliary Ports:

Open Drain Type	.. capable of sinking 2.25mA via 2k2Ω
V _{ds} max.	.. 5V

1.2.6 Test Standards

Where applicable, this equipment is tested in accordance with the following standards.

1.2.6.1 DTI CEPT Recommendation T/R-24-01

Annex I: 1988

Technical characteristics and test conditions for radio equipment in the land mobile service intended primarily for analogue speech.

Annex II: 1988

Technical characteristics of radio equipment in the land mobile service with regard to quality and stability of transmission.

1.2.6.2 Telecommunications Industry Association**ANSI/TIA/EIA-603-1992**

Land mobile FM or PM communications equipment measurement and performance standards.

1.3 Product Codes

The three groups of digits in the T880 Series II product code provide information about the model, type and options fitted, according to the conventions described below.

The following explanation of T880 Series II product codes is not intended to suggest that any combination of features is necessarily available in any one product. Consult your nearest Tait Dealer or Customer Service Organisation for more information regarding the availability of specific models, types and options.

Model

The Model group indicates the basic function of the product, as follows:

T88X-XX-XXXX T885 receiver
 T881 5W transmitter
 T889 70W power amplifier

Type

The Type group uses two digits to indicate the basic RF configuration of the product.

The first digit in the Type group designates the frequency range:

T88X-**X**X-XXXX '1' for 800-870MHz
 '2' for 860-910MHz
 '3' for 890-960MHz

The second digit in the Type group indicates the channel spacing:

T88X-**X**X-XXXX '0' for wide bandwidth (25kHz)
 '5' for narrow bandwidth (12.5kHz)

Options

T88X-XX-**XXXX** The Options group uses four digits and/or letters to indicate any options that may be fitted to the product. This includes standard options and special options for specific customers. '0000' indicates a standard Tait product with no options fitted. The large number of options precludes listing them here.

1.4 Standard Product Range

The following table lists the range of standard T885 types (i.e. no options fitted) available at the time this manual was published. Consult your nearest Tait Dealer or Customer Service Organisation for more information.

Frequency Range (MHz)		800-870	
IF Bandwidth (kHz)		7.5	15
TCXO	$\pm 1\text{ppm } -20^{\circ}\text{C to } +60^{\circ}\text{C}$ $\pm 1.5\text{ppm } -30^{\circ}\text{C to } +60^{\circ}\text{C}$	•	•
Receiver Type: T885-		15-0000	10-0000

Frequency Range (MHz)		860-910	
IF Bandwidth (kHz)		7.5	15
TCXO	$\pm 1\text{ppm } -20^{\circ}\text{C to } +60^{\circ}\text{C}$ $\pm 1.5\text{ppm } -30^{\circ}\text{C to } +60^{\circ}\text{C}$	•	•
Receiver Type: T885-		25-0000	20-0000

Frequency Range (MHz)		890-960	
IF Bandwidth (kHz)		7.5	15
TXCO	$\pm 1\text{ppm } -20^{\circ}\text{ to } +60^{\circ}\text{C}$ $\pm 1.5\text{ppm } -30^{\circ}\text{C to } +60^{\circ}\text{C}$	•	•
Receiver Type: T885-		35-0000	30-0000

You can identify the receiver type by checking the product code printed on a label on the rear of the chassis ([Figure 1.1](#) in Part A shows typical labels). You can further verify the receiver type by checking the placement of an SMD resistor in the table that is screen printed onto the PCB (refer to Section 6.1 for more details).

2 T885 Circuit Operation

This section provides a basic description of the circuit operation of the T885 receiver.

Note: Unless otherwise specified, the term "PGM800Win" used in this and following sections refers to version 3.00 and later of the software.

Refer to Section 6 where the parts lists, grid reference index and diagrams will provide detailed information on identifying and locating components and test points on the main PCB.

The following topics are covered in this section.

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2.1 Introduction

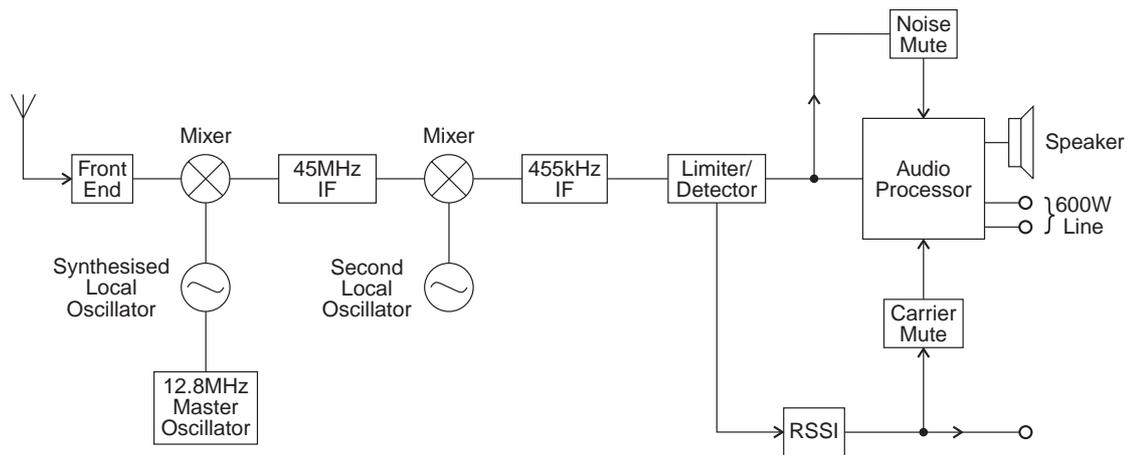


Figure 2.1 T885 High Level Block Diagram

The T885 receiver consists of a number of distinct stages:

- front end
- mixer
- synthesised local oscillator
- IF
- audio processor
- mute (squelch)
- regulator circuits
- received signal strength indicator (RSSI).

These stages are clearly identifiable in [Figure 2.1](#). Refer to the circuit diagrams in Section 6 for further detail.

2.2 Receiver Front End

(Refer to the front end, IF section and audio processor circuit diagrams (sheets 4, 3 and 2 respectively) in Section 6.2.)

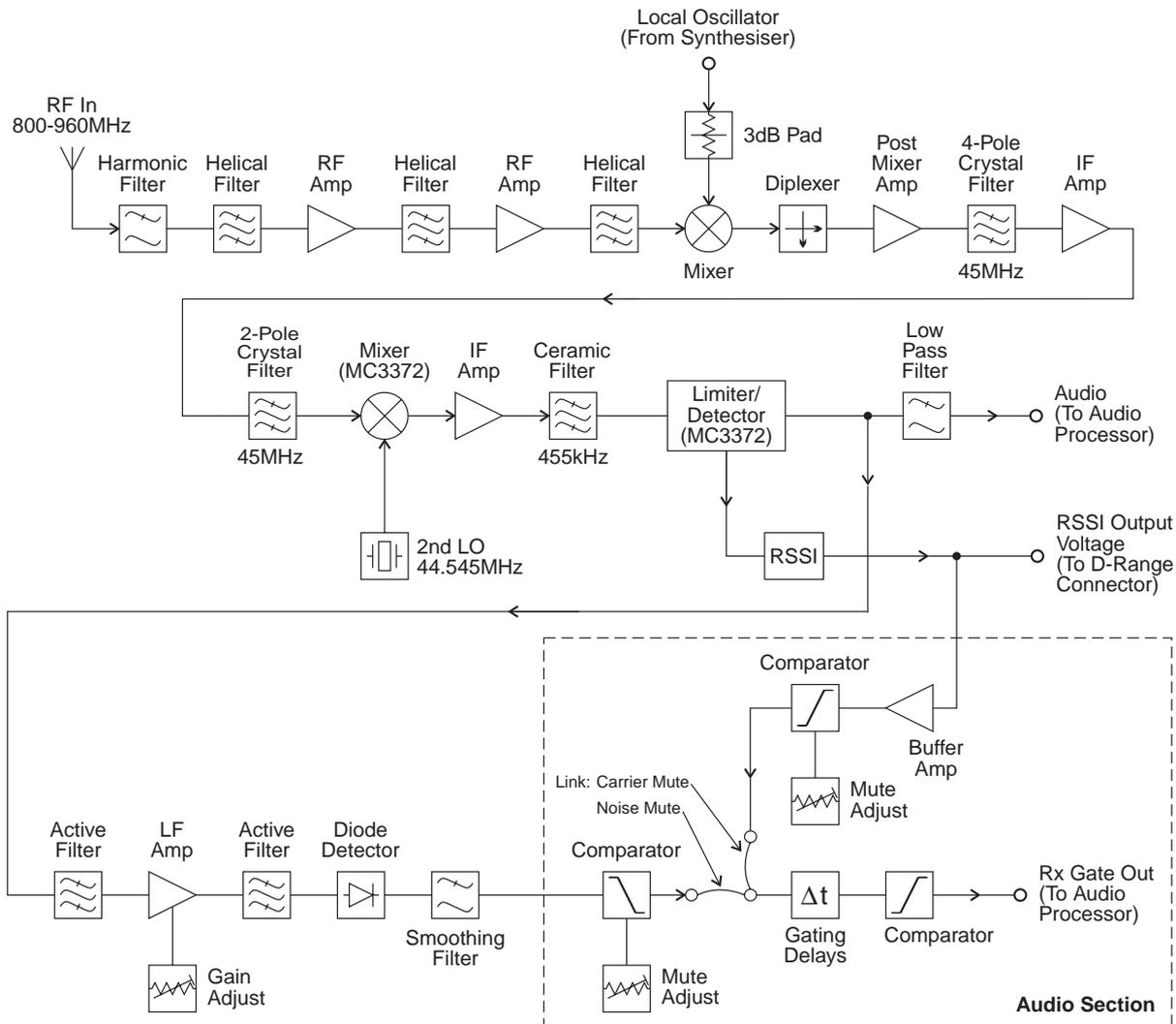


Figure 2.2 T885 Front End, IF and Mute Block Diagram

The incoming signal from the N-type antenna socket is fed through a 7-pole, low pass filter with a cut frequency of approximately 1.2GHz. This low loss filter (typically less than 0.5dB over 800-960MHz) provides excellent immunity to interference from high frequency signals.

The signal is filtered again, using a high performance helical resonator doublet (#H900) which provides exceptional image rejection, before being amplified by approximately 7dB (Q401). The signal is then passed through a further helical filter doublet (#H400), after which it is amplified again by 8dB (Q403). It is finally filtered by #H401 before being presented to the mixer.

Each sub-block within the front end has been designed with 50 ohm terminations for ease of testing and fault finding. The overall gain from the antenna socket to the mixer input is approximately 8dB.

2.3 Mixer

(Refer to the front end circuit diagram (sheet 4) in Section 6.2 and [Figure 2.2.](#))

IC410 is a high level mixer requiring a local oscillator (LO) drive level of +17dBm (nominal). The voltage controlled oscillator (VCO) generates a level of +20dBm (typical) and this is fed to the mixer via a 3dB attenuator pad. A diplexer terminates the IF port of the mixer in a good 50 ohms, thus preventing unnecessary intermodulation distortion.

2.4 IF Circuitry

(Refer to the IF section circuit diagram (sheet 3) in Section 6.2 and [Figure 2.2.](#))

Losses in the mixer are made up for in a tuned, common gate, post mixer amplifier (Q300). Several stages of amplification and filtering are employed in the IF circuitry. The first crystal filter is a 4-pole device (&XF300) which is matched into 50 ohms on its input and directly to the impedance of the next stage on its output. This stage is followed by a cascode amplifier (Q302) whose output is matched into a 2-pole crystal filter (&XF302). The signal is then mixed down to 455kHz with the second crystal local oscillator (44.545MHz).

The 455kHz signal is filtered using a 6-pole ceramic filter (IC345) before being limited and detected.

The second IF mixer, limiter and detector is in a 16-pin IC (IC300). This IC also provides an RSSI signal on pin 13. Quadrature detection is employed, using L345, and the recovered audio on pin 9 of IC300 is typically 1V p-p for 60% system deviation.

2.5 Noise Mute (Squelch)

(Refer to the audio processor and IF section circuit diagrams (sheets 2 and 3 respectively) in Section 6.2 and [Figure 2.2](#).)

The noise mute operates on the detected noise outside the audio bandwidth. Two operational amplifiers in IC330 are used as an active band-pass filter centred on 70kHz to filter out audio components and provide gain. Between the active filter stages is a variable gain stage which utilises one of the remaining operational amplifiers in IC330. The noise is then rectified (D330) and filtered to produce a DC voltage proportional to the noise amplitude. The lowest average DC voltage corresponds to a high RF signal strength and the highest DC voltage corresponds to no signal at the RF input.

The rectified noise voltage is compared with a threshold voltage set up on RV230, the front panel "Gating Sensitivity" potentiometer. Hysteresis is provided by the feedback resistor (R267) to prevent the received message from being chopped when the average noise voltage is close to the threshold. R281 and R280 determine the mute opening and closing times and, in combination with solder links SL210 and SL220, provide three time delay options (SL210 is linked as standard - refer to [Section 3.8](#)). The mute control signal at pin 7 of IC270 is used to disable the speaker and line audio outputs. The speaker output can be separately enabled for test purposes by operating the front panel mute disable switch, SW201.

2.6 Carrier Mute

(Refer to the audio processor and IF section circuit diagrams (sheets 2 and 3 respectively) in Section 6.2 and [Figure 2.2](#).)

A high level carrier mute facility is also available. The RSSI (refer to [Section 2.12](#)) provides a DC voltage proportional to the signal strength. This voltage is compared with a preset level, set up on RV235, and may be linked into the mute timing circuit using PL250. PL250 selects either the noise mute or the carrier mute. From this point both the noise and carrier mute circuits operate in the same manner, using common circuitry.

2.7 Audio Processor

(Refer to the audio processor circuit diagram (sheet 2) in Section 6.2.)

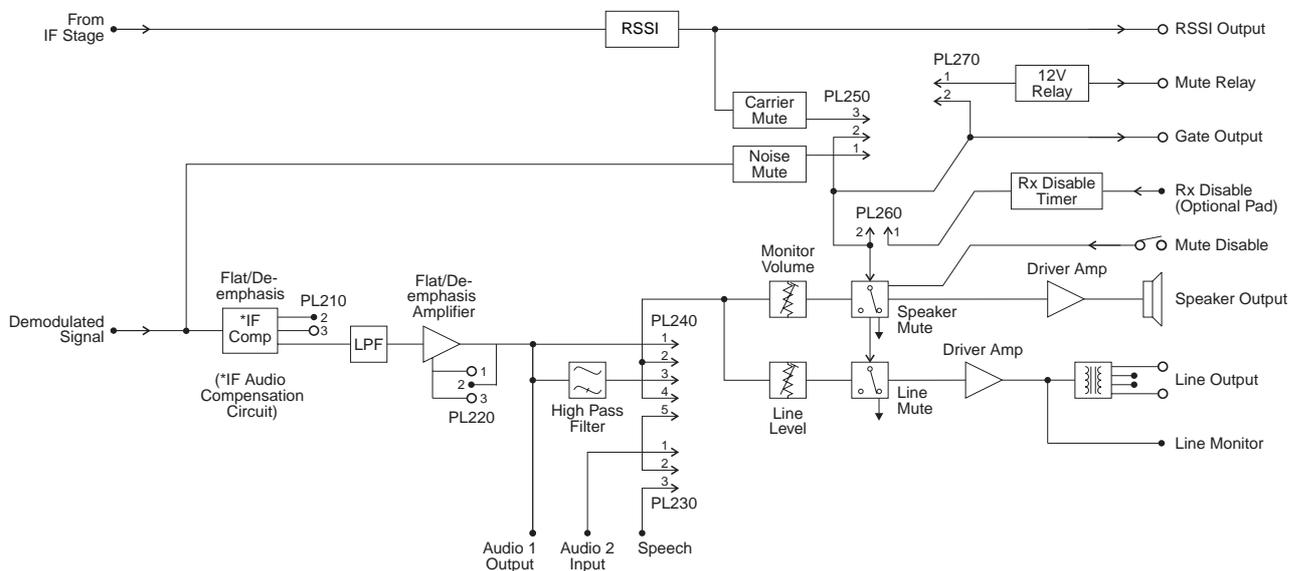


Figure 2.3 T885 Audio Processor Block Diagram

The recovered audio on pin 9 of IC310 is passed through a compensation network and processed in a third order elliptic active filter to give the required response. Linking (PL220 & PL210) is available to give either a flat or de-emphasised audio response, with de-emphasis giving a -6dB/octave roll off. The output of IC210 is split to provide separate paths for the speaker and line outputs. The "Audio 1", "Audio 2" and "Speech" lines allow access to the receiver's audio path for external signalling purposes (refer to [Section 3.5](#)).

The signals are passed to audio drive amplifiers IC240 and IC260. Under muted conditions the inputs of these amplifiers are shunted to ground via transistors Q230 and Q290 respectively. The audio output of IC240 has a DC component which is removed by C249, and this then drives a speaker directly. The output of IC260 is fed into a line transformer to provide a balanced 2-wire or 4-wire, 600 ohm output.

The speaker volume is set using the front panel "Monitor Volume" knob (RV205) and the line level is set using the recessed "Line Level" potentiometer (RV210).

The red front panel "Gate" LED (D250) indicates the status of the mute circuit. When a signal above the mute threshold is received, the LED is illuminated. The "Monitor Mute" switch (SW201) on the front panel opens the mute, allowing continuous monitoring of the audio signal (on = audio muted; off = audio unmuted).

The mute control line is available on pad 234 ("RX GATE OUT") for control of external circuitry. A high (9V) on pad 234 indicates that the audio is disabled and a low (0V) indicates that a signal above the mute threshold level is being received.

The audio can also be disabled using the "RX-DISABLE" inputs, pads 225 or 228, having connected the "RX-DISABLE" link between pins 1 & 2 of PL260. An adjustable time delay (RV220) is provided on these lines. In order to disable the audio, either pad must be pulled to 0V.

An undedicated relay is provided (RL210) for transmitter keying or other functions and this can be operated from the mute line by linking PL270.

2.8 Power Supply And Regulators

(Refer to the regulators circuit diagram (sheet 6) in Section 6.2.)

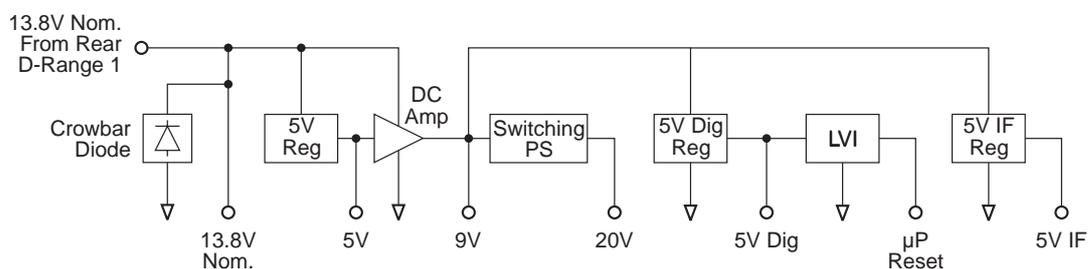


Figure 2.4 T885 Power Supply And Regulators Block Diagram

The T885 is designed to operate off a 10.8-16V DC supply (13.8V nominal). A 5.3V regulator (IC630) runs directly from the 13.8V rail, driving much of the synthesiser circuitry. It is also used as the reference for a DC amplifier (IC640, Q630 & Q620) which provides a medium current capability 9V supply.

A switching power supply, based on Q670 and Q660, runs off the 9V supply and provides a low current capability +20V supply. This is used to drive the synthesiser loop filter (IC740), giving a VCO control voltage of up to 20V.

The 13.8V supply drives both output audio amplifiers without additional regulation. A separate 5V regulator (IC610) drives the microprocessor and associated digital circuitry. The output of this regulator is monitored by the Low Voltage Interrupt (LVI) circuit (IC650). An additional 5V regulator (located in the IF cavity) supplies the first IF amplifier (Q301, Q302) and the demodulator IC (IC300).

A crowbar diode is fitted for protection against connection to a power supply of incorrect polarity. It also provides transient overvoltage protection.

Note: A fuse must be fitted in the power supply line for the diode to provide effective protection.

2.9 Microcontroller

(Refer to the microcontroller circuit diagram (sheet 8) in Section 6.2.)

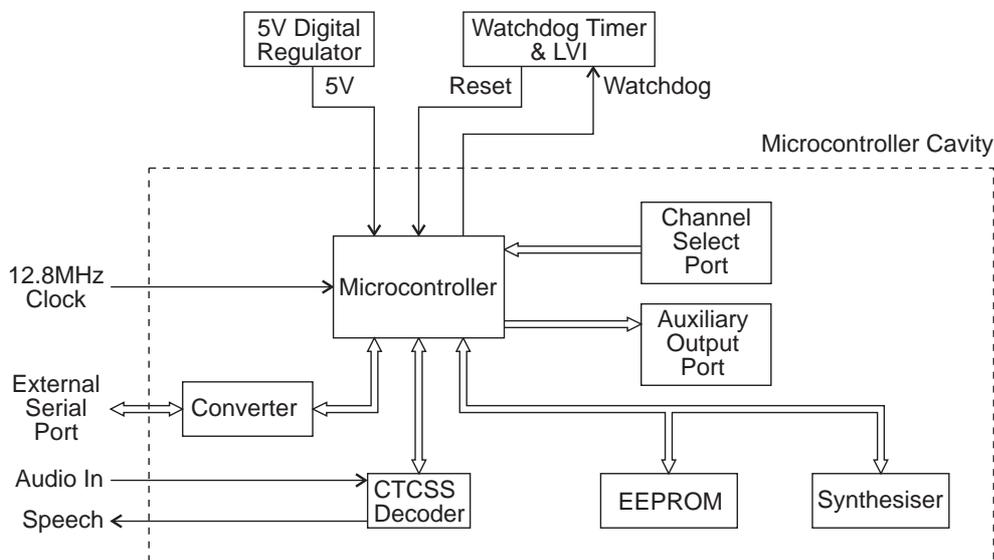


Figure 2.5 T885 Microcontroller Block Diagram

Overall system control of the T885 is accomplished by the use of a member of the 80C51 family of microcontrollers (IC810) which runs from internal ROM and RAM. Four ports are available for input/output functions.

Non-volatile data storage is achieved by serial communication with a 16kBit EEPROM (IC820). This serial bus is also used by the microcontroller to program the synthesiser (IC740).

The main tasks of the microcontroller are as follows:

- program the synthesiser;
- interface with the PGM800Win programming software at 9600 baud via the serial communication lines on D-range 1 (PL100) & D-range 2;
- monitor channel change inputs from D-range 2;
- generate timing waveforms for CTCSS detection;
- coordinate and implement timing control of the receiver;
- control the front panel "Supply" LED.

2.10 Synthesised Local Oscillator

(Refer to the synthesiser circuit diagram (sheet 7) and the VCO circuit diagram (sheet 5) in Section 6.2.)

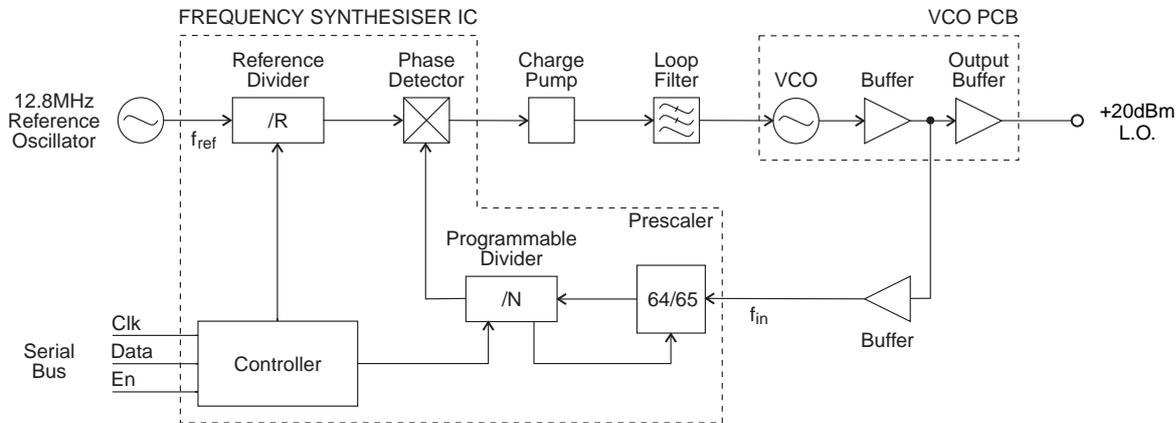


Figure 2.6 T885 Synthesiser Block Diagram

The synthesiser (IC740) employs a phase-locked loop (PLL) to lock a voltage controlled oscillator (VCO) to a given reference frequency. The synthesiser receives the divider information from the control microprocessor via a 3-wire serial bus (clock, data, enable). When the data has been latched in, the synthesiser processes the incoming signals from the VCO buffer (f_{in}) and the reference oscillator (f_{ref}).

A reference oscillator at 12.8MHz (IC700) is buffered (IC710) and divided down to 6.25kHz or 5kHz within the synthesiser IC (IC740).

A buffered output of the VCO is divided with a prescaler and programmable divider which is incorporated into the synthesiser chip (IC740). This signal is compared with the reference signal at the phase detector (also part of the synthesiser chip). The phase detector outputs drive a balanced charge pump circuit (Q760, Q770, Q775, Q780, Q785) and active loop filter (IC750, Q790) which produces a DC voltage between 0V and 20V to tune the VCO. This VCO control line is further filtered to attenuate noise and other spurious signals. Note that the VCO frequency increases with increasing control voltage.

2.11 VCO

(Refer to the VCO circuit diagram (sheet 5) in Section 6.2.)

The VCO consists of several stages: oscillator, cascode buffer, broadband amplifier and output buffer. The oscillator transistor (Q504) operates in a common base Colpitts configuration and is capacitively coupled to a short-circuited coaxial resonator (&TL500). The resonator frequency is capacitively tuned by varicaps (D501, D502, D509, D505) and coarse manual tuning is provided by the sapphire trimcap (CV500).

The cascode buffer (Q540, Q541) provides the signal to the divider buffer in the synthesiser circuit as well as 0dBm to the broadband amplifier (Q543). The broadband amplifier provides +10dB of gain, as does the output buffer stage (T540), which brings the VCO output up to +20dBm.

The VCO operates at the actual frequency required by the first mixer, i.e. there are no multiplier stages.

The VCO frequency spans from either 755-825MHz, 815-865MHz or 845-915MHz according to product type (refer to [Section 1.4](#)). The VCO is tuned to 45MHz below the desired receive frequency (low side injection) to produce a 45MHz IF signal at the output of the mixer.

2.12 Received Signal Strength Indicator (RSSI)

(Refer to the IF section circuit diagram (sheet 3) in Section 6.2.)

The RSSI provides a DC voltage proportional to the signal level at the receiver input and is an on-chip function of the demodulator IC (IC300). Circuitry external to IC300 conditions the RSSI signal and the voltage is available at D-range 1 (PL100 pin 5).

The RSSI also provides the capability for high level signal strength muting, which may be selected on PL250 (refer to [Section 3.5](#)). The mute threshold may be set between -115dBm and -70dBm by RV235.

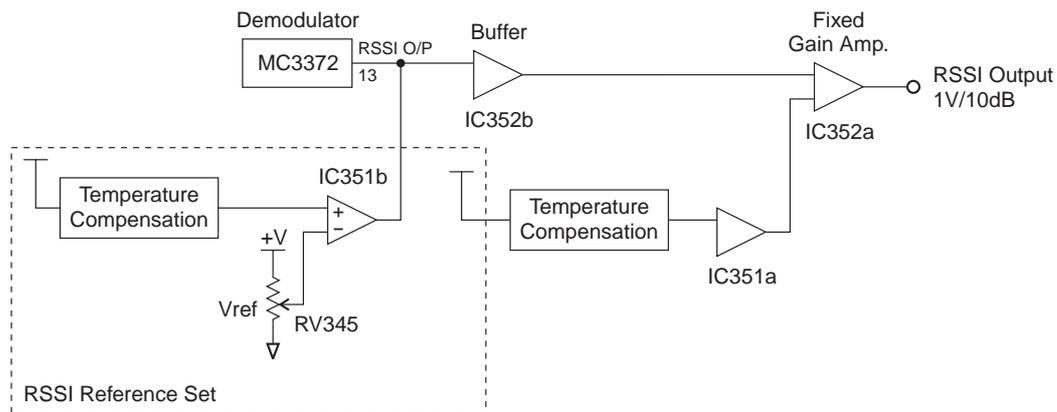


Figure 2.7 T885 RSSI Block Diagram

The voltage offset of the RSSI signal (IC300 pin 13) is adjusted by RV345. This adjustment is temperature compensated by an operational amplifier (IC351b). The signal passes through a buffer amplifier (IC352b) before being amplified (IC352a) to give the correct volts per dB. The amplifier is temperature compensated by IC351a and its associated circuitry.

3 T885 Initial Tuning & Adjustment



Caution: This equipment contains CMOS devices which are susceptible to damage from static charges. Refer to [Section 1.2](#) in Part A for more information on anti-static procedures when handling these devices.

Note: To ensure that the T885 will continue to meet its performance specifications, you must tighten the bottom cover screws to the correct torque, and in the correct order, as described in [Section 2.4](#) in Part A.

The following section describes both short and full tuning and adjustment procedures and provides information on:

- channel programming
- selecting the required audio links
- synthesiser alignment
- receiver front end and IF alignment
- noise and carrier level mute adjustment
- setting the line and monitor output levels
- setting up the RSSI.

Note: Unless otherwise specified, the term "PGM800Win" used in this and following sections refers to version 3.00 and later of the software.

Refer to Section 6 where the parts lists, grid reference index and diagrams will provide detailed information on identifying and locating components and test points on the main PCB.

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3.2	T885 Test Equipment Set-up For Full Tuning & Adjustment Procedure	3.4

3.1 Introduction

When you receive your T885 receiver it will be run up and working on a particular frequency (the "default channel")¹. If you want to switch to a frequency that is within the 6MHz switching range (i.e. ± 3 MHz from the factory programmed frequency), you should only need to reprogram the receiver with the PGM800Win software (refer to the PGM800Win programming kit and [Section 3.2](#) below).

However, if you want to switch to a frequency outside the 6MHz switching range, you will have to reprogram and re-tune the receiver to ensure correct operation. In this case you should carry out the short tuning procedure described in [Section 3.4](#).

If you have carried out repairs or other major adjustments, you must carry out the full tuning and adjustment procedure described in this section (except for [Section 3.4](#)).

3.2 Channel Programming

You can program up to 128 channel frequencies into the receiver's EEPROM memory (IC820) by using the PGM800Win software package and an IBM™ PC. You can also use PGM800Win to select the receiver's current operating frequency (or "default channel").

If the receiver is installed in a rack frame, you can program it via the programming port in the speaker panel. However, you can also program the receiver before it is installed in a rack frame as follows:

- by using a T800-01-0010 calibration test unit;
- via D-range 1;
- via D-range 2 (standard T800-03-0000 auxiliary D-range only);
- via SK805 (internal Micromatch connector).

If you do not use the T800-01-0010, you will have to connect the PC to the receiver via a module programming interface (such as the T800-01-0004).

For a full description of the channel programming procedure, refer to the PGM800Win programming software user's manual.

Note: When an auxiliary D-range kit (D-range 2 - T800-03-0000) is fitted, you can also select a channel with an external switch, such as the DIP switch on the rack frame backplane PCB. Refer to Part C in the T800 Series Ancillary Equipment Service Manual (M800-00-101 or later issue) or consult your nearest Tait Dealer or Customer Service Organisation for further details.

1. Use the "Read Module" function in PGM800Win to find out what the default channel is.

3.3 Test Equipment Required

You will need the following test equipment:

- computer with PGM800Win installed
 - T800 programming kit
 - module programming interface (e.g. T800-01-0004 - optional)
 - 13.8V power supply
 - digital multimeter
 - audio signal generator
 - RF signal generator
 - audio voltmeter
 - sinad meter
- } or RF test set (optional)
- oscilloscope
 - distortion meter
- } not needed for short tuning procedure
- T800-01-0010 calibration test unit (optional)
 - 4Ω speaker (not needed if the calibration test unit is used)

Figure 3.1 and Figure 3.2 show typical test equipment set-ups (with and without a T800-01-0010 calibration test unit).

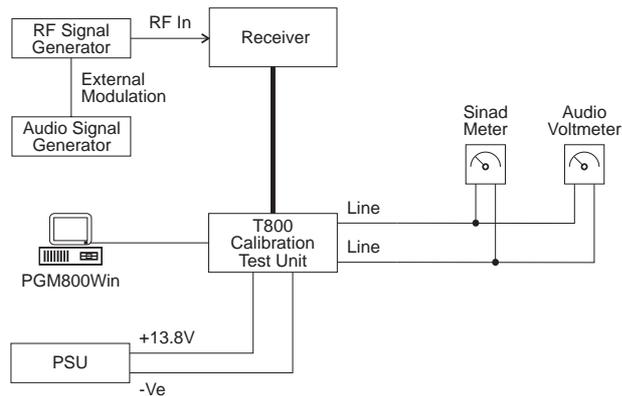


Figure 3.1 T885 Test Equipment Set-up For Short Tuning Procedure

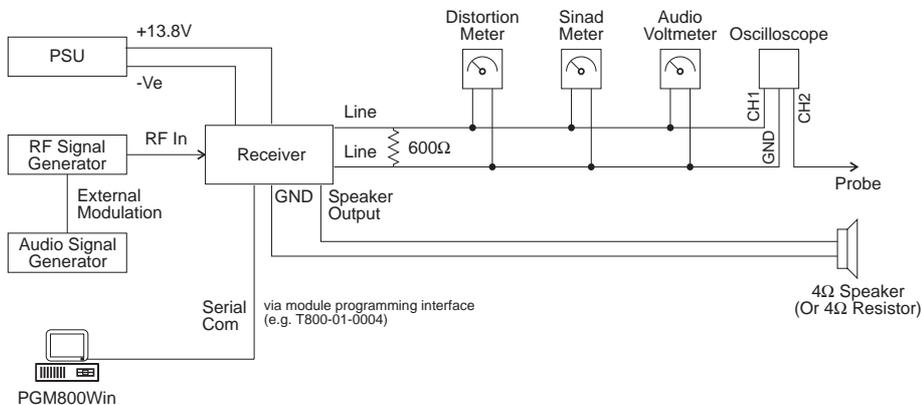


Figure 3.2 T885 Test Equipment Set-up For Full Tuning & Adjustment Procedure

3.4 Short Tuning Procedure

Use this procedure only if you want to reprogram the receiver to a frequency outside the 6MHz switching range and do not intend to carry out any other major adjustments or repairs.

3.4.1 Introduction

Reprogram the operating frequency as described in the PGM800Win programming kit (refer to [Section 3.2](#)).

Remove the top cover (nearest the handle).

Set up the test equipment as described in [Section 3.3](#).

Set the links in the audio processor section as required (refer to [Section 3.5](#)).

3.4.2 Synthesiser Alignment

- Connect a high impedance voltmeter to the via next to R520 in the VCO cavity (this measures the synthesiser loop voltage).
- **Single Channel** Tune VCO trimmer CV500 for a synthesiser loop voltage of 10V.
- **Multichannel** Tune VCO trimmer CV500 for a synthesiser loop voltage of 10V on the middle channel.
If there is no middle channel, tune CV500 so that the channels are symmetrically placed around a loop voltage of 10V.
All channels should lie within the upper and lower limits of 16V and 3V respectively.
Do not attempt to program channels with a greater frequency separation than the specified switching range of 6MHz.

3.4.3 Front End Alignment

Note 1: In this and following sections deviation settings are given first for wide bandwidth sets, followed by settings in brackets for narrow bandwidth sets [].

Note 2: For multichannel operation align the receiver on a frequency in the middle of the required band.

Set RV230 (front panel gating sensitivity) fully clockwise.

Inject a strong on-channel RF signal with $\pm 3\text{kHz}$ deviation [$\pm 1.5\text{kHz}$] at 1kHz into the antenna socket and adjust the helical resonators (#H900, #H400 and #H401) to give best sinad.

Continually decrease the RF level to maintain 12dB sinad.

Readjust #H900, #H400 and #H401 to give best sinad.

With PL210 and PL220 connected for de-emphasised audio response, the receiver sensitivity should be better than -117dBm , assuming that the audio levels are not being overdriven (refer to [Section 3.4.5](#)).

3.4.4 Mute Adjustment

3.4.4.1 Noise Mute

Connect pins 1 & 2 of PL250 to enable the noise mute.

Set the RF level to -105dBm with $\pm 3\text{kHz}$ deviation [$\pm 1.5\text{kHz}$] at 1kHz .

Set RV230 (front panel gating sensitivity) fully anticlockwise.

Adjust RV346 (noise mute gain) fully anticlockwise to close the mute (if necessary turn off the RF signal and then turn it on again).

Rotate RV346 clockwise until the mute just opens.

Reset the signal generator for the required opening sinad and adjust RV230 clockwise until the mute just opens.

3.4.4.2 Carrier Level Mute

Connect pins 2 & 3 of PL250 to enable the carrier mute and disable the noise mute.

Apply an on-channel signal from the RF generator at the required mute opening level with $\pm 3\text{kHz}$ deviation [$\pm 1.5\text{kHz}$] at $\pm 1\text{kHz}$.

Adjust RV235 (carrier mute) anticlockwise to close the mute (if necessary, momentarily turn off the RF), then slowly adjust it clockwise until the mute just opens. The mute should now open at this preset level.

3.4.5 Line Amplifier Output

Apply an on-channel signal from the RF generator at a level of -70dBm with $\pm 3\text{kHz}$ deviation [$\pm 1.5\text{kHz}$] at 1kHz .

Adjust RV210 (front panel line level) to set the line level to the required output level.

3.4.6 CTCSS

3.4.6.1 Decoder Operation

Program a CTCSS tone on the default channel using PGM800Win.

Set the RF signal generator output to -70dBm.

Modulate the generator with both:

- a 1kHz tone at ± 3 kHz deviation [± 1.5 kHz]
- and a CTCSS tone at the programmed frequency at ± 500 Hz deviation [± 300 Hz].

Check that the receiver gate opens and the front panel "Gate" LED is on.

3.4.6.2 Opening Sinad

Adjust RV230 (front panel gating sensitivity) fully clockwise.

Reduce the RF signal level to -110dBm.

Observe the sinad meter and reduce the RF level until the receiver mute closes.

Slowly increase the signal level until the receiver mute just opens and stays open.

With PL240 pins 1 & 2 linked (high pass filter bypassed), check that the sinad is less than 6dB.

Reset the signal generator for the required opening sinad, adjust RV230 fully anti-clockwise, then clockwise until the mute just opens.

3.4.6.3 High Pass Filter

Set the audio processor links as follows:

Plug	Link	Function
PL210	1 - 2	de-emphasised response
PL230	2 - 3	audio from internal CTCSS speech filter
PL240	4 - 5	audio input via PL230 or I/O pad

Reset the RF signal generator output to -70dBm and note the line level (measurement A).

Reduce the 1kHz generator to zero output and measure the line level again (measurement B).

Check that measurement B is at least 30dB below measurement A.

3.4.7 RSSI (If Used)

Apply an on-channel signal from the RF generator at a level of -110dBm with $\pm 3\text{kHz}$ deviation [$\pm 1.5\text{kHz}$] at 1kHz.

Adjust RV345 (RSSI level) to give 2.0V RSSI output on pin 5 of D-range 1 (PL100) when measured with a high impedance DMM.

3.5 Audio Processor Links

3.5.1 General

Use the following table to set up the audio processor to the configuration you require. You should set the audio processor links before carrying out the receiver alignment. The factory settings are shown in brackets [].

Plug	Link ^a	Function
PL210	[1 - 2] 2 - 3	de-emphasised response flat response
PL220	1 - 2 [2 - 3]	flat response de-emphasised response
PL230 ^b	1 - 2 [2 - 3] 3 - 4	audio input via AUDIO-2 pad audio from internal CTCSS speech filter audio input via I/O pad P250
PL240 ^b	1 - 2 [2 - 3] or 3 - 4 4 - 5	bypass high pass filter 300Hz high pass filter in circuit audio input via PL230 or I/O pad
PL250	[1 - 2] 2 - 3	noise mute carrier mute
PL260	1 - 2 [2 - 3]	RX-DISABLE link not connected
PL270	[1 - 2] 2 - 3	relay link not connected

- Pin 1 is identified by the number "1" screen printed onto the PCB beside each set of links.
- Refer to [Section 3.5.2](#) for further details.

3.5.2 Audio Processor Linking Details For CTCSS

You must connect the audio processor links correctly according to the CTCSS option used, as shown in the table below.

CTCSS Option	PL230 ^a	PL240 ^a
standard, no CTCSS	2 - 3	2 - 3
received CTCSS + speech passed to line output	3 - 4	1 - 2
high pass filtered speech, internal CTCSS detection	2 - 3	4 - 5
external CTCSS detection	1 - 2	4 - 5

a. Pin 1 is identified by the number "1" screen printed onto the PCB beside each set of links.

The conditions stated in the above table are defined as follows:

- standard, no CTCSS
 - no CTCSS or other sub-audio signalling used
 - audio bandwidth 300Hz to 3kHz
 - hum & noise -50dB
- received CTCSS tone + speech to line output
 - tone and speech transmitted down 600 ohm line
 - audio bandwidth 10Hz to 3kHz
 - hum & noise -45dB
- high pass filtered speech + internal CTCSS detection
 - 400Hz to 3kHz
 - hum & noise -25dB with 250.3Hz tone present
- external CTCSS detection
 - decoding performed through the receiver (but externally)
 - speech injected back into receiver via "AUDIO-2" and sent down 600 ohm line

Note 1: AUDIO-2 is available on D-range 1 (PL100) pin 7 via the link resistor R160. Although PL100 pin 7 is already assigned to SERIAL-COM, this can be disabled by removing R808.

Note 2: External CTCSS units can connect in series with the audio chain via AUDIO-1 and AUDIO-2.

3.6 Synthesiser Alignment

- Ensure that the receiver has been programmed with the required frequencies using the PGM800Win software.
- Connect a high impedance voltmeter to the via next to R520 in the VCO cavity (this measures the synthesiser loop voltage).
- **Single Channel** Tune VCO trimmer CV500 for a synthesiser loop voltage of 10V.
- **Multichannel** Tune VCO trimmer CV500 for a synthesiser loop voltage of 10V on the middle channel.
If there is no middle channel, tune CV500 so that the channels are symmetrically placed around a loop voltage of 10V.
All channels should lie within the upper and lower limits of 16V and 3V respectively.
Do not attempt to programme channels with a greater frequency separation than the specified switching range of 6MHz.
- The TCXO (=IC700) output frequency should be trimmed when the IF is tuned - refer to [Section 3.7](#).

3.7 Alignment Of Receiver Front End And IF

Note: In this and following sections deviation settings are given first for wide bandwidth sets, followed by settings in brackets for narrow bandwidth sets [].

Align the synthesiser as instructed in [Section 3.6](#). For multichannel operation align the receiver on a frequency in the middle of the required band.

Set RV230 (front panel gating sensitivity) fully clockwise.

Inject a strong on-channel RF signal with $\pm 3\text{kHz}$ deviation [$\pm 1.5\text{kHz}$] at 1kHz into the antenna socket.

Connect a voltmeter to the RSSI output (D-range 1 [PL100] pin 5 or P238 in the audio processor cavity) and adjust the helicals (#H900, #H400 and #H401) to give maximum RSSI voltage. While adjusting the helicals, decrease the RF level to keep the RSSI voltage below 7V.

Adjust L345 coarsely for maximum line level.

While maintaining a low level unmodulated RF input to the receiver, loosely couple into the first IF an additional high level signal at 45MHz - you will hear a beat note.

Trim the synthesiser TCXO (=IC700) for zero beat.

Note: If a second oscillator is not available, you can connect a frequency counter to IC710 pin 8 (i.e. after the TCXO buffer) via an oscilloscope probe to measure the TCXO frequency directly (12.8MHz). At this point the voltage level is approximately 4V p-p.

Readjust the front end helicals (#H900, #H400 and #H401) to give the best sinad.

Change the RF signal level to -75dBm and modulate with ± 3 kHz deviation [± 1.5 kHz] at 1kHz.

Adjust L345 and then L301 for minimum distortion. If the distortion is still $>2\%$, you may have to adjust L345 and L301 alternately until you reach the true minimum.

Check that the distortion reading is:

wide bandwidth	$<2\%$
narrow bandwidth	$<4\%$.

If required, reconnect plugs PL210 and PL220 to give a de-emphasised audio response and check that the distortion reading is $<2\%$ (all bandwidths).

Reduce the RF level until 12dB sinad is reached. The receiver sensitivity should be better than -117dBm (de-emphasised) or -111dBm (flat), assuming that the audio levels are not being overdriven (refer to [Section 3.12](#)).

3.8 Gating Delay

Two solder links (SL210 & SL220) are provided in the audio processor cavity to allow three gate delay time options, as shown in the table below.

SL210	SL220	Closing Delay
linked	not linked	$<50\text{ms}^*$
not linked	linked	$<25\text{ms}$
not linked	not linked	$<20\text{ms}$

*Factory setting.

3.9 Noise Mute Adjustment

Connect pins 1 & 2 of PL250 to enable the noise mute.

Align the receiver as instructed in [Section 3.6](#) and [Section 3.7](#).

Set the RF level to -105dBm with ± 3 kHz deviation [± 1.5 kHz] at 1kHz.

Set RV230 (front panel gating sensitivity) fully anticlockwise.

Adjust RV346 (noise mute gain) fully anticlockwise to close the mute (if necessary turn off the RF signal and then turn it on again).

Rotate RV346 clockwise until the mute just opens.

Reset the signal generator for the required opening sinad and adjust RV230 clockwise until the mute just opens.

3.10 RSSI

Align the receiver as instructed in [Section 3.6](#) and [Section 3.7](#).

Apply an on-channel signal from the RF generator at a level of -110dBm with ± 3 kHz deviation [± 1.5 kHz] at 1kHz.

Adjust RV345 (RSSI level) to give 2.0V RSSI output on pin 5 of D-range 1 (PL100) when measured with a high impedance DMM.

3.11 Carrier Level Mute

Connect pins 2 & 3 of PL250 to enable the carrier mute and disable the noise mute.

Apply an on-channel signal from the RF generator at the required mute opening level with ± 3 kHz deviation [± 1.5 kHz] at ± 1 kHz.

Adjust RV235 (carrier mute) anticlockwise to close the mute (if necessary, momentarily turn off the RF), then slowly adjust it clockwise until the mute just opens. The mute should now open at this preset level.

3.12 Audio Processor

3.12.1 Line Amplifier Output

Apply an on-channel signal from the RF generator at a level of -70dBm with ± 3 kHz deviation [± 1.5 kHz] at 1kHz.

Adjust RV210 (front panel line level) to give an output of +10dBm on the 600 ohm line.

Check for any clipping or distortion on the oscilloscope.

Set the line level to the required output level.

3.12.2 Monitor Amplifier Output (Speaker Output)

Adjust RV205 (front panel monitor volume) to give an output of 2V rms into a 4 ohm resistive load.

Check for any clipping or distortion on the oscilloscope.

Switch to a 4 ohm speaker and adjust RV205 to the required level.

3.13 CTCSS

3.13.1 Decoder Operation

Program a CTCSS tone on the default channel using PGM800Win.

Set the RF signal generator output to -70dBm.

Modulate the generator with both:

- a 1kHz tone at ± 3 kHz deviation [± 1.5 kHz]
- and a CTCSS tone at the programmed frequency at ± 500 Hz deviation [± 300 Hz].

Check that the receiver gate opens and the front panel "Gate" LED is on.

3.13.2 Opening Sinad

Adjust RV230 (front panel gating sensitivity) fully clockwise.

Reduce the RF signal level to -110dBm.

Observe the sinad meter and reduce the RF level until the receiver mute closes.

Slowly increase the signal level until the receiver mute just opens and stays open.

With PL240 pins 1 & 2 linked (high pass filter bypassed), check that the sinad is less than 6dB.

Reset the signal generator for the required opening sinad, adjust RV230 fully anti-clockwise, then clockwise until the mute just opens.

3.13.3 High Pass Filter

Set the audio processor links as follows:

Plug	Link	Function
PL210	1 - 2	de-emphasised response
PL230	2 - 3	audio from internal CTCSS speech filter
PL240	4 - 5	audio input via PL230 or I/O pad

Reset the RF signal generator output to -70dBm and note the line level (measurement A).

Reduce the 1kHz generator to zero output and measure the line level again (measurement B).

Check that measurement B is at least 30dB below measurement A.

6 T885 PCB Information



Caution: This equipment contains CMOS devices which are susceptible to damage from static charges. Refer to [Section 1.2](#) in Part A for more information on anti-static procedures when handling these devices.

Note: To ensure that the T885 will continue to meet its performance specifications, you must tighten the bottom cover screws to the correct torque, and in the correct order, as described in [Section 2.4](#) in Part A.

This section provides the following information on the T885 receiver:

- parts lists
- grid reference index
- PCB layouts
- circuit diagrams.

Section	Title	IPN	Page
6.1	Introduction		6.1.3
6.2	T885 Receiver PCB	220-01595-02	6.2.1

6.1 Introduction

Product Type Identification

You can identify the receiver type by checking the product code printed on a label on the rear of the chassis (product codes are explained in [Section 1.3](#) in this Part of the manual, and [Figure 1.1](#) in Part A shows typical labels). You can further verify the receiver type by checking the placement of an SMD resistor in the table that is screen printed onto the top side of the PCB, similar to the example drawn below. In this example, the resistor indicates that the product was built as a T885-10-XXXX.

885-	■ ■	PRODUCT TYPE			
885-30	■ ■	■ ■	885-10	■ ■	885-20
885-35	■ ■	■ ■	885-13	■ ■	885-23
PRODUCT TYPE		■ ■	885-15	■ ■	885-25

Note: The only function of this resistor is to indicate the product type. It has no effect on the circuitry or operation of the receiver.

PCB Identification

All PCBs are identified by a unique 10 digit “internal part number” (IPN), e.g. 220-12345-00, which is screen printed onto the PCB (usually on the top side), as shown in the example below:



The last 2 digits of this number define the issue status, which starts at 00 and increments through 01, 02, 03, etc. as the PCB is updated. Some issue PCBs never reach full production status and are therefore not included in this manual. A letter following the 10 digit IPN has no relevance in identifying the PCB for service purposes.

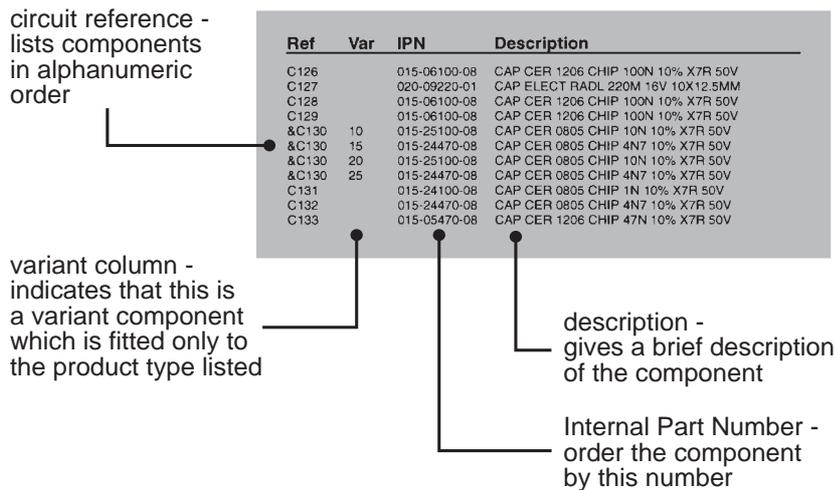
Note: It is important that you identify which issue PCB you are working on so that you can refer to the appropriate set of PCB information.

Parts Lists

The 10 digit numbers (000-00000-00) in this Parts List are “internal part numbers” (IPNs). We can process your spare parts orders more efficiently and accurately if you quote the IPN and provide a brief description of the part.

The components listed in this parts list are divided into two main types: those with a circuit reference (e.g. C2, D1, R121, etc.) and those without (miscellaneous and mechanical).

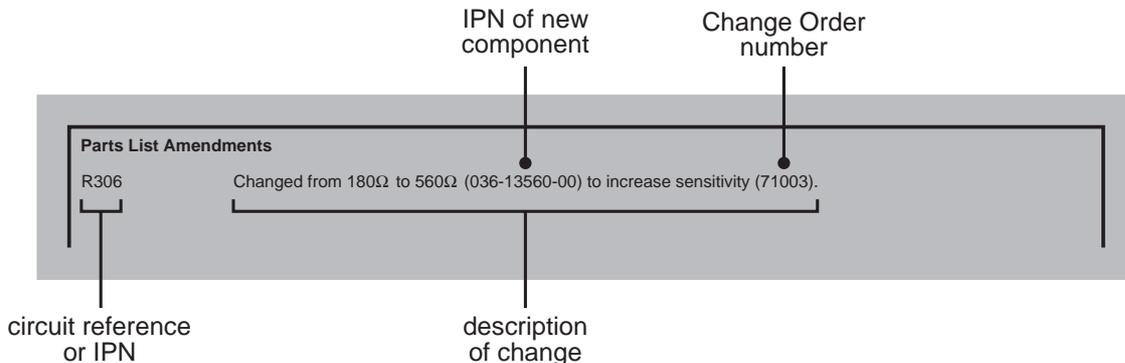
Those with a circuit reference are grouped in alphabetical order and then in numerical order within each group. Each component entry comprises three or four columns, as shown below:



The mechanical and miscellaneous section lists the variant and common parts in IPN order.

Parts List Amendments

At the front of the parts list is the Parts List Amendments box (an example of which is shown below). This box contains a list of component changes which took place after the parts list and diagrams in this section were compiled. These changes (e.g. value changes, added/deleted components, etc.) are listed by circuit reference in alphanumeric order and supersede the information given in the parts list or diagrams. Components without circuit references are listed in IPN order. The number in brackets at the end of each entry refers to the Tait internal Change Order document.



Variant Components

A variant component is one that has the same circuit reference but different value or specification in different product types. Where two products share the same PCB, the term “variant” is also used to describe components unplaced in one product. Variant components have a character prefix, such as “&”, “=” or “#”, before the circuit reference (e.g. &R100).

The table below explains the variant prefixes used in T800 Series II products:

If the variant prefix is. . .	the component will. . .
&	change according to channel spacing
=	change according to frequency stability
#	change according to frequency range
%	change or be placed/unplaced for special applications
*	be unplaced in one product (where two products share the same PCB)

Grid Reference Index

This section contains a component grid reference index to help you find components and labelled pads on the PCB layouts and circuit diagrams. This index lists the components and pads in alphanumeric order, along with the appropriate alphanumeric grid references, as shown below:

Device	PCB	Circuit
C126	2:A6	2-R7
C127	1:A8	2-P4
C128	2:B7	2-P2
C129	2:C12	2-E3
&C130	2:D8	2-B8
C131	2:C9	2-H6
C132	2:D8	2-B8
C133	2:D6	2-E1

components listed in alphanumeric order

PCB layout reference
circuit diagram reference

component location on the sheet

sheet number

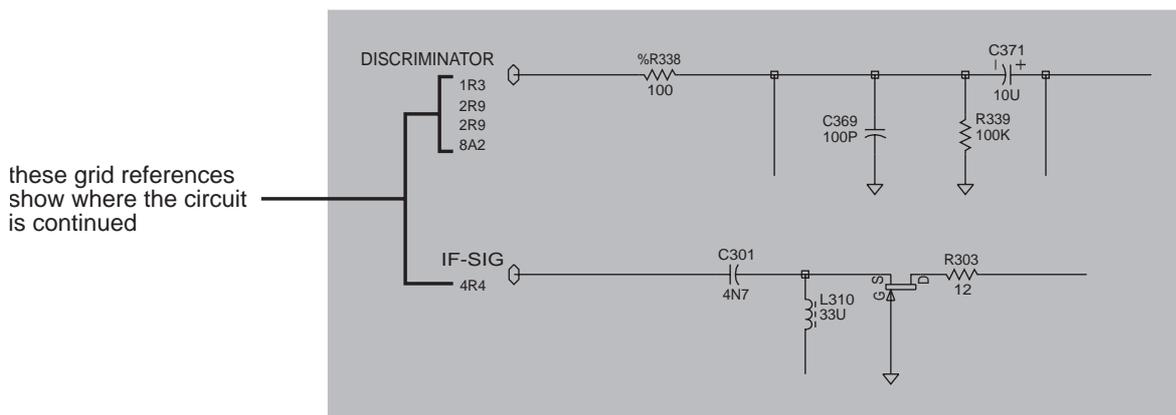
component location on the layer

layer number -
1 = top side layer
2 = bottom side layer

Using CAD Circuit Diagrams

Reading a CAD circuit diagram is similar to reading a road map, in that both have an alphanumeric border. The circuit diagrams in this manual use letters to represent the horizontal axis, and numbers for the vertical axis. These circuit diagram "grid references" are useful in following a circuit that is spread over two or more sheets.

When a line representing part of the circuitry is discontinued, a reference will be given at the end of the line to indicate where the rest of the circuitry is located, as shown below. The first digit refers to the sheet number and the last two characters refer to the location on that sheet of the continuation of the circuit (e.g. 1R3).



6.2 T885 Receiver PCB

This section contains the following information.

IPN	Section	Page
220-01595-02	Parts List	6.2.3
	Mechanical & Miscellaneous Parts	6.2.10
	Grid Reference Index	6.2.11
	PCB Layout - Top Side	6.2.15
	PCB Layout - Bottom Side	6.2.16
	Receiver Overview Diagram	6.2.17
	Audio Processor Circuit Diagram	6.2.18
	IF Section Circuit Diagram	6.2.19
	Front End Circuit Diagram	6.2.20
	VCO Circuit Diagram	6.2.21
	Regulators Circuit Diagram	6.2.22
	Synthesiser Circuit Diagram	6.2.23
	Microcontroller Circuit Diagram	6.2.24
	Harmonic Filter Circuit Diagram	6.2.25

T885 Parts List (IPN 220-01595-02)

How To Use This Parts List

The components listed in this parts list are divided into two main types: those with a circuit reference (e.g. C2, D1, R121, etc.) and those without (miscellaneous and mechanical).

Those with a circuit reference are grouped in alphabetical order and then in numerical order within each group. Each component entry comprises three or four columns: the circuit reference, variant (if applicable), IPN and description. A number in the variant column indicates that this is a variant component which is fitted only to the product type listed. Static sensitive devices are indicated by an (S) at the start of the description column.

The miscellaneous and mechanical section lists the variant and common parts in IPN order. Where possible, a number in the legend column indicates their position in the mechanical assembly drawing.

The Parts List Amendments box below lists component changes that took place after the parts list and diagrams in this section were compiled. These changes (e.g. value changes, added/deleted components, etc.) are listed by circuit reference in alphanumeric order and supersede the information given in the parts list or diagrams. Components without circuit references are listed in IPN order.

Parts List Amendments

There were no amendments to the parts list at the time of publication.

Parts List Amendments - Continued

This page is provided for entering future amendments to the parts list.

Ref	Var	IPN	Description	Ref	Var	IPN	Description
C201		014-08100-00	CAP TANT CHIP 10M 16VW +20%	C348		015-25470-08	CAP CER 0805 47N 10% X7R 50V
C203		015-25100-08	CAP CER 0805 10N 10% X7R 50V	C349		015-25470-08	CAP CER 0805 47N 10% X7R 50V
C205		015-24470-08	CAP CER 0805 4N7 10% X7R 50V	C350		015-22100-01	CAP CER 0805 10P+1/2P NPO 50V
C207		014-07100-02	CAP TANT CHIP 1U0 3.2 X 1.6MM	C351		015-25100-08	CAP CER 0805 10N 10% X7R 50V
C209		016-08470-03	CAP SMD ELEC 47mF 20% 25v 8.3m	C352		015-24100-08	CAP CER 0805 1N 10% X7R 50V
C210		015-24100-08	CAP CER 0805 1N 10% X7R 50V	C353		015-25100-08	CAP CER 0805 10N 10% X7R 50V
C211		015-24470-08	CAP CER 0805 4N7 10% X7R 50V	C354		015-22560-01	CAP CER 0805 56P 5% NPO 50V
C212		015-26100-08	CAP CER 0805 100N 10% X7R 50V	C355		015-22560-01	CAP CER 0805 56P 5% NPO 50V
C213		015-25470-08	CAP CER 0805 47N 10% X7R 50V	C356		015-24470-08	CAP CER 0805 4N7 10% X7R 50V
C215		015-21220-01	CAP CER 0805 2P2+-0.25 NPO 50V	C357		015-26100-08	CAP CER 0805 100N 10% X7R 50V
C217		015-22470-01	CAP CER 0805 47P 5% NPO 50V	C358		015-26100-08	CAP CER 0805 100N 10% X7R 50V
C219		015-24470-08	CAP CER 0805 4N7 10% X7R 50V	C359		015-26100-08	CAP CER 0805 100N 10% X7R 50V
C221		015-24100-08	CAP CER 0805 1N 10% X7R 50V	C360		015-23120-01	CAP CER 0805 120P 5% NPO 50V
C222		014-08100-00	CAP TANT CHIP 10M 16VW +20%	C361		015-22560-01	CAP CER 0805 56P 5% NPO 50V
C223		015-26100-08	CAP CER 0805 100N 10% X7R 50V	C362		015-22560-01	CAP CER 0805 56P 5% NPO 50V
C225		015-26100-08	CAP CER 0805 100N 10% X7R 50V	C364		015-25470-08	CAP CER 0805 47N 10% X7R 50V
C227		015-23100-01	CAP CER 0805 100P 5% NPO 50V	C365		015-25470-08	CAP CER 0805 47N 10% X7R 50V
C229		014-08100-00	CAP TANT CHIP 10M 16VW +20%	C366		015-25100-08	CAP CER 0805 10N 10% X7R 50V
C231		014-08100-00	CAP TANT CHIP 10M 16VW +20%	C367		015-26100-08	CAP CER 0805 100N 10% X7R 50V
C233		014-08100-00	CAP TANT CHIP 10M 16VW +20%	C368		015-25100-08	CAP CER 0805 10N 10% X7R 50V
C235		015-24100-08	CAP CER 0805 1N 10% X7R 50V	C369		015-25100-08	CAP CER 0805 10N 10% X7R 50V
C237		015-24100-08	CAP CER 0805 1N 10% X7R 50V	C371		015-25100-08	CAP CER 0805 10N 10% X7R 50V
C238		015-26100-08	CAP CER 0805 100N 10% X7R 50V	C385		014-08100-00	CAP TANT CHIP 10M 16VW +20%
C239		016-09100-05	CAP SMD ELECT 100U 25V 20%	C386		015-25100-08	CAP CER 0805 10N 10% X7R 50V
C240A		015-24100-08	CAP CER 0805 1N 10% X7R 50V	C387		015-25100-08	CAP CER 0805 10N 10% X7R 50V
C240B		015-26100-08	CAP CER 0805 100N 10% X7R 50V	C389		014-08100-00	CAP TANT CHIP 10M 16VW +20%
C240C		016-09470-01	LJCAP ELECT 470U 20% SMD	C390		015-26100-08	CAP CER 0805 100N 10% X7R 50V
C249		016-09470-01	LJCAP ELECT 470U 20% SMD	C400		015-22180-05	CAP 0805 18P 1% 200V
C251		015-26100-08	CAP CER 0805 100N 10% X7R 50V	C401		015-25150-08	CAP CER 0805 15N 10% X7R 50V
C253		016-09100-05	CAP SMD ELECT 100U 25V 20%	C402		015-22180-05	CAP 0805 18P 1% 200V
C255		015-24100-08	CAP CER 0805 1N 10% X7R 50V	C403		015-22180-05	CAP 0805 18P 1% 200V
C257		015-24100-08	CAP CER 0805 1N 10% X7R 50V	C404		015-22180-05	CAP 0805 18P 1% 200V
C259		015-26100-08	CAP CER 0805 100N 10% X7R 50V	C407		015-26100-08	CAP CER 0805 100N 10% X7R 50V
C260A		015-24100-08	CAP CER 0805 1N 10% X7R 50V	C408		015-25100-08	CAP CER 0805 10N 10% X7R 50V
C260B		015-26100-08	CAP CER 0805 100N 10% X7R 50V	C409		015-22180-05	CAP 0805 18P 1% 200V
C260C		016-09470-01	LJCAP ELECT 470U 20% SMD	C410		015-25150-08	CAP CER 0805 15N 10% X7R 50V
C261		016-09100-05	CAP SMD ELECT 100U 25V 20%	C411		015-22180-05	CAP 0805 18P 1% 200V
C262		016-09100-05	CAP SMD ELECT 100U 25V 20%	C414		015-22180-05	CAP 0805 18P 1% 200V
C264		015-26100-08	CAP CER 0805 100N 10% X7R 50V	C415		015-22180-05	CAP 0805 18P 1% 200V
C266		016-07470-06	CAP SMD ELECT BI-P 4U7 50V 20%	C417		015-21330-05	CAP CER 0805 3P3+-0.1PF 200V
C268		016-07470-06	CAP SMD ELECT BI-P 4U7 50V 20%	C418		015-22390-05	CAP 0805 39P 1% 200V
C270		015-26100-08	CAP CER 0805 100N 10% X7R 50V	C422		015-22390-05	CAP 0805 39P 1% 200V
C272		015-25100-08	CAP CER 0805 10N 10% X7R 50V	C500		015-22180-05	CAP 0805 18P 1% 200V
C273		014-08100-00	CAP TANT CHIP 10M 16VW +20%	C501		014-08220-01	(LJ)CAP TANT 22UF10V276MSER
C274		015-26100-08	CAP CER 0805 100N 10% X7R 50V	C502		014-08220-01	(LJ)CAP TANT 22UF10V276MSER
C276		015-25470-08	CAP CER 0805 47N 10% X7R 50V	C503		015-24100-08	CAP CER 0805 1N 10% X7R 50V
C278		015-26100-08	CAP CER 0805 100N 10% X7R 50V	C504		015-22180-05	CAP 0805 18P 1% 200V
C280		015-25470-08	CAP CER 0805 47N 10% X7R 50V	C505		015-22180-05	CAP 0805 18P 1% 200V
C286		015-24470-08	CAP CER 0805 4N7 10% X7R 50V	C506		015-22180-05	CAP 0805 18P 1% 200V
C300		015-23100-01	CAP CER 0805 100P 5% NPO 50V	C507		015-22180-05	CAP 0805 18P 1% 200V
C302		015-24470-08	CAP CER 0805 4N7 10% X7R 50V	C508		015-26100-08	CAP CER 0805 100N 10% X7R 50V
C303		015-22150-01	CAP CER 0805 15P 5% NPO 50V	C509		015-24100-08	CAP CER 0805 1N 10% X7R 50V
C304		015-24470-08	CAP CER 0805 4N7 10% X7R 50V	C510		015-22180-05	CAP 0805 18P 1% 200V
C307		014-08100-00	CAP TANT CHIP 10M 16VW +20%	C516		014-08220-01	(LJ)CAP TANT 22UF10V276MSER
C308		015-24100-08	CAP CER 0805 1N 10% X7R 50V	&C517	10	015-22180-05	CAP 0805 18P 1% 200V
&C309	10	015-22220-01	CAP CER 0805 22P 5% NPO 50V	&C517	25	015-22180-05	CAP 0805 18P 1% 200V
&C309	25	015-22270-01	CAP CER 0805 27P 5% NPO 50V	&C517	30	015-22180-05	CAP 0805 18P 1% 200V
&C309	30	015-22220-01	CAP CER 0805 22P 5% NPO 50V	C518		015-26100-08	CAP CER 0805 100N 10% X7R 50V
C310		015-25100-08	CAP CER 0805 10N 10% X7R 50V	&C519	10	015-22390-05	CAP 0805 39P 1% 200V
&C311	10	015-22100-01	CAP CER 0805 10P+1/2P NPO 50V	&C519	25	015-22390-05	CAP 0805 39P 1% 200V
&C311	25	015-21820-02	LJCAP 0805 8P2 15 NPO 50V	&C519	30	015-22330-05	CAP CER 0805 33P+-0.1PF 200V
&C311	30	015-22100-01	CAP CER 0805 10P+1/2P NPO 50V	C520		015-22180-05	CAP 0805 18P 1% 200V
&C314	10	015-21820-02	LJCAP 0805 8P2 15 NPO 50V	&C521	10	015-23330-08	CAP CER 0805 330P 10% X7R 50V
&C314	25	015-22180-05	CAP 0805 18P 1% 200V	&C521	25	015-23330-08	CAP CER 0805 330P 10% X7R 50V
&C314	30	015-21820-02	LJCAP 0805 8P2 15 NPO 50V	&C521	30	015-23330-08	CAP CER 0805 330P 10% X7R 50V
&C315	10	015-21820-02	LJCAP 0805 8P2 15 NPO 50V	&C522	10	015-21150-05	CAP CER 0805 CHIP 1P5+0.1PF 2
&C315	25	015-21560-01	CAP CER 0805 5P6+-0.25 NPO 50V	&C522	25	015-21150-05	CAP CER 0805 CHIP 1P5+0.1PF 2
&C315	30	015-21820-02	LJCAP 0805 8P2 15 NPO 50V	&C522	30	015-21150-05	CAP CER 0805 CHIP 1P5+0.1PF 2
C316		015-25100-08	CAP CER 0805 10N 10% X7R 50V	&C524	10	015-21120-05	CAP CER 0805 CHIP 1P2 +0.1PF 2
C317		015-22470-01	CAP CER 0805 47P 5% NPO 50V	&C524	25	015-21120-05	CAP CER 0805 CHIP 1P2 +0.1PF 2
&C318	10	015-21560-01	CAP CER 0805 5P6+-0.25 NPO 50V	&C524	30	015-21100-05	CAP CER 0805 1P0 +0.1PF 200V
&C318	25	015-21680-01	CAP CER 0805 6P8+-0.25 NPO 50V	&C525	10	015-21100-05	CAP CER 0805 1P0 +0.1PF 200V
&C318	30	015-21560-01	CAP CER 0805 5P6+-0.25 NPO 50V	&C525	25	015-21100-05	CAP CER 0805 1P0 +0.1PF 200V
C321		015-25100-08	CAP CER 0805 10N 10% X7R 50V	&C525	30	015-20075-05	CAP CER 0805 CHIP OP75+-0.1PF
C322		015-25100-08	CAP CER 0805 10N 10% X7R 50V	C531		015-22180-05	CAP 0805 18P 1% 200V
C324		015-23100-01	CAP CER 0805 100P 5% NPO 50V	&C533	10	015-21180-05	CAP CER 0805 1P8 +-0.1 200V
C325		015-25100-08	CAP CER 0805 10N 10% X7R 50V	&C533	25	015-21180-05	CAP CER 0805 1P8 +-0.1 200V
C328		015-25100-08	CAP CER 0805 10N 10% X7R 50V	&C533	30	015-21150-05	CAP CER 0805 CHIP 1P5+0.1PF 2
&C329	25	015-21330-05	CAP CER 0805 3P3+-0.1PF 200V	C536		015-22180-05	CAP 0805 18P 1% 200V
&C330	10	015-25100-08	CAP CER 0805 10N 10% X7R 50V	C537		015-26100-08	CAP CER 0805 100N 10% X7R 50V
&C330	25	015-22100-01	CAP CER 0805 10P+1/2P NPO 50V	C540		015-22180-05	CAP 0805 18P 1% 200V
&C330	30	015-25100-08	CAP CER 0805 10N 10% X7R 50V	C541		015-22180-05	CAP 0805 18P 1% 200V
&C331	10	015-21680-01	CAP CER 0805 6P8+-0.25 NPO 50V	C542		014-08220-01	(LJ)CAP TANT 22UF10V276MSER
&C331	25	015-21330-05	CAP CER 0805 3P3+-0.1PF 200V	C543		015-22180-05	CAP 0805 18P 1% 200V
&C331	30	015-21680-01	CAP CER 0805 6P8+-0.25 NPO 50V	C544		015-22180-05	CAP 0805 18P 1% 200V
&C332	25	015-21270-05	CAP CER 0805 CHIP 2P7 +0.1PF 2	C545		015-22180-05	CAP 0805 18P 1% 200V
&C335	25	015-21330-05	CAP CER 0805 3P3+-0.1PF 200V	C548		015-22180-05	CAP 0805 18P 1% 200V
C336		015-25100-08	CAP CER 0805 10N 10% X7R 50V	C549		015-22180-05	CAP 0805 18P 1% 200V
C337		015-25100-08	CAP CER 0805 10N 10% X7R 50V	C555		015-22180-05	CAP 0805 18P 1% 200V
C338		015-22270-01	CAP CER 0805 27P 5% NPO 50V	C556		015-22180-05	CAP 0805 18P 1% 200V
C339		015-22220-01	CAP CER 0805 22P 5% NPO 50V	C557		015-22180-05	CAP 0805 18P 1% 200V
C340		015-26100-08	CAP CER 0805 100N 10% X7R 50V	C558		015-22180-05	CAP 0805 18P 1% 200V
C341		015-26100-08	CAP CER 0805 100N 10% X7R 50V	C559		014-07470-00	CAP 4U7 SMD 'B'CASE 16V +-010%
C342		015-25100-08	CAP CER 0805 10N 10% X7R 50V	C560		015-22180-05	CAP 0805 18P 1% 200V
C343		015-25100-08	CAP CER 0805 10N 10% X7R 50V	C561		015-22180-05	CAP 0805 18P 1% 200V
C345		014-07470-00	CAP 4U7 SMD 'B'CASE 16V +-010%	C562		015-22180-05	CAP 0805 18P 1% 200V
C346		015-25100-08	CAP CER 0805 10N 10% X7R 50V	C563		015-26100-08	CAP CER 0805 100N 10% X7R 50V
C347		015-25470-08	CAP CER 0805 47N 10% X7R 50V	C564		015-22180-05	CAP 0805 18P 1% 200V

Ref	Var	IPN	Description	Ref	Var	IPN	Description
C569		015-26100-08	CAP CER 0805 100N 10% X7R 50V	C818		015-25100-08	CAP CER 0805 10N 10% X7R 50V
C570		015-22180-05	CAP 0805 18P 1% 200V	C819		015-22330-01	CAP CER 0805 33P 5% NPO 50V
C571		015-22180-05	CAP 0805 18P 1% 200V	C820		015-23220-01	CAP CER 0805 220P 5% NPO 50V
C572		015-22180-05	CAP 0805 18P 1% 200V	C822		015-25220-08	CAP CER 0805 22N 10% X7R 50V
C573		014-07470-00	CAP 4U7 SMD 'B'CASE 16V +-010%	C824		015-25470-08	CAP CER 0805 47N 10% X7R 50V
C574		015-22180-05	CAP 0805 18P 1% 200V	C826		015-05100-07	CAP 1206 CHIP NPO 10nF 25V
C575		015-22180-05	CAP 0805 18P 1% 200V	C828		015-05100-07	CAP 1206 CHIP NPO 10nF 25V
C576		015-22180-05	CAP 0805 18P 1% 200V	C830		015-25470-08	CAP CER 0805 47N 10% X7R 50V
C577		015-26100-08	CAP CER 0805 100N 10% X7R 50V	C832		014-07100-02	CAP TANT CHIP 1U0 3.2 X 1.6MM
C578		015-21270-05	CAP CER 0805 CHIP 2P7 +0.1PF 2	C833		015-25220-08	CAP CER 0805 22N 10% X7R 50V
C579		015-21330-05	CAP CER 0805 3P3+-0.1PF 200V	C834		015-25100-08	CAP CER 0805 10N 10% X7R 50V
C585		015-22180-05	CAP 0805 18P 1% 200V	C836		015-05100-07	CAP 1206 CHIP NPO 10nF 25V
C586		015-22180-05	CAP 0805 18P 1% 200V	C837		015-05100-07	CAP 1206 CHIP NPO 10nF 25V
C587		015-21470-05	CAP CER 0805 4P7+-0.1PF 200V	C838		015-05100-07	CAP 1206 CHIP NPO 10nF 25V
C588		015-22180-05	CAP 0805 18P 1% 200V	C840		015-25470-08	CAP CER 0805 47N 10% X7R 50V
C590		015-25100-08	CAP CER 0805 10N 10% X7R 50V	C842		014-07100-02	CAP TANT CHIP 1U0 3.2 X 1.6MM
C591		015-22180-05	CAP 0805 18P 1% 200V	C844		014-07100-02	CAP TANT CHIP 1U0 3.2 X 1.6MM
C592		014-08220-01	(L)CAP TANT 22UF10V276MSER	C846		014-07100-02	CAP TANT CHIP 1U0 3.2 X 1.6MM
C593		015-22180-05	CAP 0805 18P 1% 200V	C848		014-07100-02	CAP TANT CHIP 1U0 3.2 X 1.6MM
C594		015-22180-05	CAP 0805 18P 1% 200V	C850		015-25470-08	CAP CER 0805 47N 10% X7R 50V
C595		015-22180-05	CAP 0805 18P 1% 200V	C873		015-25220-08	CAP CER 0805 22N 10% X7R 50V
C596		015-26100-08	CAP CER 0805 100N 10% X7R 50V	C876		014-09100-00	CAP TANT SMD 100U 16V 20%
C597		015-22180-05	CAP 0805 18P 1% 200V	C879		014-08100-00	CAP TANT CHIP 10M 16VW +-20%
C610A		015-25100-08	CAP CER 0805 10N 10% X7R 50V	C900		015-21220-01	CAP CER 0805 2P2+-0.25 NPO 50V
C610B		014-09100-00	CAP TANT SMD 100U 16V 20%	C901		015-21390-01	CAP CER 0805 3P9+-0.25 NPO 50V
C611A		014-09100-00	CAP TANT SMD 100U 16V 20%	C902		015-21390-01	CAP CER 0805 3P9+-0.25 NPO 50V
C611B		015-25100-08	CAP CER 0805 10N 10% X7R 50V	C903		015-21220-01	CAP CER 0805 2P2+-0.25 NPO 50V
C623		015-22180-05	CAP 0805 18P 1% 200V	CV500		028-11500-00	CAP TRIM 0.6/4.5 P SAPPHIRE
C625		020-09470-07	CAP ELEC RADL 470M 16V 20% 3.5				
C626		015-24470-08	CAP CER 0805 4N7 10% X7R 50V	%D111A		001-10015-50	DIODE SMD ZENER 1.5SMC22AT3
C628		015-24100-08	CAP CER 0805 1N 10% X7R 50V	D220		001-10000-56	S) DIODE SMD BAW56 D-SW SOT23
C630		015-26100-08	CAP CER 0805 100N 10% X7R 50V	D230		001-10000-70	S) DIODE SMD BAV70 D-SW SOT23
C631A		015-26100-08	CAP CER 0805 100N 10% X7R 50V	D240		001-10000-99	S) DIODE SMD BAV99 D-SW SOT23
C631B		014-08100-03	CAP TANT SMD 10U 35V 20%	D250		008-00014-79	S)LED 3MM RED WITH WIRE
C637		015-22180-05	CAP 0805 18P 1% 200V	D260		001-10084-33	S)DIODE ZENSMD BZX84C3V3 SOT23
C640		015-24100-08	CAP CER 0805 1N 10% X7R 50V	D270		001-10000-70	S) DIODE SMD BAV70 D-SW SOT23
C650		015-26100-08	CAP CER 0805 100N 10% X7R 50V	D280		008-00014-80	S)LED 3MM GREEN WITH WIRE
C651		015-26100-08	CAP CER 0805 100N 10% X7R 50V	D285		001-10011-73	DIODE SMD MRA4003T3 1A/300V SM
C658		015-26100-08	CAP CER 0805 100N 10% X7R 50V	D289		001-10011-73	DIODE SMD MRA4003T3 1A/300V SM
C660		015-26100-08	CAP CER 0805 100N 10% X7R 50V	D290		001-10011-73	DIODE SMD MRA4003T3 1A/300V SM
C665		014-08100-03	CAP TANT SMD 10U 35V 20%	D295		001-10011-73	DIODE SMD MRA4003T3 1A/300V SM
C670		014-07330-10	CAP TANT SMD 3U3 35V 10%	D330		001-10000-99	S) DIODE SMD BAV99 D-SW SOT23
C673		015-24470-08	CAP CER 0805 4N7 10% X7R 50V	D501		001-10005-35	S) DIODE SMD VCAP BB535 SOD323
C677		014-07100-02	CAP TANT CHIP 1U0 3.2 X 1.6MM	D502		001-10005-35	S) DIODE SMD VCAP BB535 SOD323
C681		015-26100-08	CAP CER 0805 100N 10% X7R 50V	D504		001-10005-35	S) DIODE SMD VCAP BB535 SOD323
C684		014-08100-03	CAP TANT SMD 10U 35V 20%	D505		001-10005-35	S) DIODE SMD VCAP BB535 SOD323
C687		015-22180-05	CAP 0805 18P 1% 200V	D610		001-10000-99	S) DIODE SMD BAV99 D-SW SOT23
C690		015-26100-08	CAP CER 0805 100N 10% X7R 50V	D640		001-10000-70	S) DIODE SMD BAV70 D-SW SOT23
C693		014-08100-03	CAP TANT SMD 10U 35V 20%	D645		001-10010-40	DIODE SMD ZENER 33V BZG03-C33
C700		015-26100-08	CAP CER 0805 100N 10% X7R 50V	D730A		001-10165-00	DIODE BAT165 SCHOTTKY SOD-323
C702		015-24100-08	CAP CER 0805 1N 10% X7R 50V	D740A		001-10165-00	DIODE BAT165 SCHOTTKY SOD-323
C703		015-24100-08	CAP CER 0805 1N 10% X7R 50V	D820A		001-10165-00	DIODE BAT165 SCHOTTKY SOD-323
C705		015-21820-02	L)CAP 0805 8P2 15 NPO 50V	D860		001-10000-70	S) DIODE SMD BAV70 D-SW SOT23
C707		015-22470-01	CAP CER 0805 47P 5% NPO 50V	D880		001-10000-70	S) DIODE SMD BAV70 D-SW SOT23
C708		015-22470-01	CAP CER 0805 47P 5% NPO 50V				
C709		015-22100-01	CAP CER 0805 10P+-1/2P NPO 50V	#H400	10	051-00564-00	COIL HELC RES 2.625T 1.2MMSF
C710A		014-07470-00	CAP 4U7 SMD 'B'CASE 16V +-010%	#H400	25	051-00565-00	COIL HELC RES 2.428T 1.2MMSF
C710B		015-26100-08	CAP CER 0805 100N 10% X7R 50V	#H400	30	051-00565-00	COIL HELC RES 2.428T 1.2MMSF
C710C		015-25100-08	CAP CER 0805 10N 10% X7R 50V	#H401	10	051-00564-00	COIL HELC RES 2.625T 1.2MMSF
C711		015-22220-01	CAP CER 0805 22P 5% NPO 50V	#H401	25	051-00565-00	COIL HELC RES 2.428T 1.2MMSF
C712		015-22220-01	CAP CER 0805 22P 5% NPO 50V	#H401	30	051-00565-00	COIL HELC RES 2.428T 1.2MMSF
C713		015-25100-08	CAP CER 0805 10N 10% X7R 50V	#H900	10	051-00564-00	COIL HELC RES 2.625T 1.2MMSF
C735		015-22470-01	CAP CER 0805 47P 5% NPO 50V	#H900	25	051-00565-00	COIL HELC RES 2.428T 1.2MMSF
C736		015-22470-01	CAP CER 0805 47P 5% NPO 50V	#H900	30	051-00565-00	COIL HELC RES 2.428T 1.2MMSF
C740A		015-24100-08	CAP CER 0805 1N 10% X7R 50V	IC210		002-10003-58	S) IC SMD LM358 DUAL O-AMP
C740B		015-25100-08	CAP CER 0805 10N 10% X7R 50V	IC240		002-00014-05	S) IC TDA7231 1.6W AF PWR
C741A		014-07470-00	CAP 4U7 SMD 'B'CASE 16V +-010%	IC260		002-00014-05	S) IC TDA7231 1.6W AF PWR
C741B		015-25100-08	CAP CER 0805 10N 10% X7R 50V	IC270		002-10003-58	S) IC SMD LM358 DUAL O-AMP
C742A		015-26100-08	CAP CER 0805 100N 10% X7R 50V	IC280		002-10003-58	S) IC SMD LM358 DUAL O-AMP
C742B		015-25100-08	CAP CER 0805 10N 10% X7R 50V	IC300		002-10337-20	S) IC MC3372D SMD IF DETECTOR
C743		015-22470-01	CAP CER 0805 47P 5% NPO 50V	IC330		002-10008-40	S)IC SMD TL084CD 4X O-AMP JFET
C745		015-22180-05	CAP 0805 18P 1% 200V	IC345		276-10010-14	FLTR CER SMD 455KHz E15KHz B/W
C750		014-08100-03	CAP TANT SMD 10U 35V 20%	IC351		002-10003-58	S) IC SMD LM358 DUAL O-AMP
C757		015-25100-08	CAP CER 0805 10N 10% X7R 50V	IC352		002-10003-58	S) IC SMD LM358 DUAL O-AMP
C759		015-25100-08	CAP CER 0805 10N 10% X7R 50V	IC360		002-10078-05	S) IC SMD 78L05 5V REG
C761		015-25100-08	CAP CER 0805 10N 10% X7R 50V	IC610		002-10078-05	S) IC SMD 78L05 5V REG
C762		014-08220-01	(L)CAP TANT 22UF10V276MSER	IC630		002-12523-17	(S)IC LM317L REG TO-252 0.5A
C764		015-25100-08	CAP CER 0805 10N 10% X7R 50V	IC640		002-10003-58	S) IC SMD LM358 DUAL O-AMP
C765		014-07470-00	CAP 4U7 SMD 'B'CASE 16V +-010%	IC650		002-10012-32	SMD DS1232LPS-2 LP RESET&W-DOG
C767		015-24100-08	CAP CER 0805 1N 10% X7R 50V	=IC700		539-00010-55	TCXO 12.8M 1PPM-20+70/2PPM -30
C769		015-24100-08	CAP CER 0805 1N 10% X7R 50V	IC710		002-74900-04	S) IC SMD 74HC04D 6X INV BUFFD
C770		014-08220-01	(L)CAP TANT 22UF10V276MSER	IC740		002-14519-10	S) IC MC145191F SMD SYNTH
C772		014-08220-01	(L)CAP TANT 22UF10V276MSER	IC750		002-10330-78	S) IC MC33078D 2X AMP LO NOISE
C774		013-06100-10	CAP SMD PPS 100N 100V 10%	IC820		002-12416-00	S)IC SMD AT24C16N-10SC EEPROM
C776		015-24680-08	CAP CER 0805 6N8 10% X7R 50V	IC830		002-10003-24	S) IC SMD 324 4X O-AMP SO14
C780		015-22180-05	CAP 0805 18P 1% 200V	IC840		002-10040-53	S)MC14053B SMD BREAK B4 MAKE
C782		015-22180-05	CAP 0805 18P 1% 200V	IC850		002-10003-24	S) IC SMD 324 4X O-AMP SO14
C784		015-22180-05	CAP 0805 18P 1% 200V	L230		057-10100-60	IND SHLD 100UH SMD 600MA
C786		015-26100-08	CAP CER 0805 100N 10% X7R 50V	L300		050-00016-22	COIL TAIT NO 622 20-120M
C788		015-22180-05	CAP 0805 18P 1% 200V	L301		050-00016-22	COIL TAIT NO 622 20-120M
C790		015-21330-05	CAP CER 0805 3P3+-0.1PF 200V	L302		059-16470-10	(L)IND FXD 1008CS 470NH 5%
C792		015-21560-01	CAP CER 0805 5P6+-0.25 NPO 50V	&L303	10	056-14150-02	(L) IND SMD 1.5UH SIMID02
C810		015-25100-08	CAP CER 0805 10N 10% X7R 50V	&L303	25	056-10820-02	(L) IND SMD 820NH SIMID02
C812		015-23100-01	CAP CER 0805 100P 5% NPO 50V	&L303	30	056-14150-02	(L) IND SMD 1.5UH SIMID02
C813		015-24100-08	CAP CER 0805 1N 10% X7R 50V	&L304	25	056-10820-02	(L) IND SMD 820NH SIMID02
C814		015-22180-05	CAP 0805 18P 1% 200V				
C815		015-05100-07	CAP 1206 CHIP NPO 10nF 25V				
C816		015-25100-08	CAP CER 0805 10N 10% X7R 50V				

Ref	Var	IPN	Description	Ref	Var	IPN	Description
&L307	10	056-14330-02	(L) IND SMD 3.3UH SIMID02	&R209	25	036-15180-00	RES M/F 0805 18K 5%
&L307	25	056-14150-02	(L) IND SMD 1.5UH SIMID02	&R209	30	036-15220-00	RES M/F 0805 22K 5%
&L307	30	056-14330-02	(L) IND SMD 3.3UH SIMID02	R210		036-15150-00	RES M/F 0805 15K 5%
L308		056-10820-00	IND FXD SMD 820NH 3.2*2.5*1.6	R211		036-15390-10	RES M/F 0805 39K 1%
L345		050-15119-75	COIL SMD 455KHz IF 5119-T075	R213		036-14270-10	RES M/F 0805 2K7 1%
L400		056-10330-02	(L) IND SMD 330NH SIMID02	R215		036-15150-00	RES M/F 0805 15K 5%
L404		056-10330-02	(L) IND SMD 330NH SIMID02	R218		036-14390-10	RES M/F 0805 3K9 1%
L410		056-10330-02	(L) IND SMD 330NH SIMID02	&R219	10	036-15100-10	RES M/F 0805 10K 1%
L414		056-10330-02	(L) IND SMD 330NH SIMID02	&R219	25	036-14820-10	RES M/F 0805 8K2 1%
L500		065-10004-20	BEAD FE SMD CBD 4.6/3/3-4S2	&R219	30	036-15100-10	RES M/F 0805 10K 1%
L501		056-10100-02	(L) IND SMD 100NH SIMID02	R221		036-15470-10	RES M/F 0805 47K 1%
L502		056-10100-02	(L) IND SMD 100NH SIMID02	R222		036-16100-10	RES M/F 0805 100K 1%
L503		065-10004-20	BEAD FE SMD CBD 4.6/3/3-4S2	%R223		036-12100-10	RES M/F 0805 10E 1%
L504		056-10100-02	(L) IND SMD 100NH SIMID02	R224		036-14390-10	RES M/F 0805 3K9 1%
L505		065-10004-20	BEAD FE SMD CBD 4.6/3/3-4S2	R225		036-13470-00	RES M/F 0805 470E 5%
L540		056-10082-02	(L) IND SMD 82NH SIMID02	R227		036-14270-10	RES M/F 0805 2K7 1%
L541		056-10015-03	IND SMD 0805 15NH 20%	R229		036-14470-10	RES M/F 0805 4K7 1%
L543		056-10006-83	(LSH) IND SMD 0805 6.8NH 20%	R230		036-14470-10	RES M/F 0805 4K7 1%
L700		056-10006-83	(LSH) IND SMD 0805 6.8NH 20%	R232		036-15470-10	RES M/F 0805 47K 1%
L900		052-08120-15	COIL A/W 1.5T/2MM HOR 0.8MM	R233		036-14820-10	RES M/F 0805 8K2 1%
L901		052-08125-15	COIL A/W 1.5T/2.5MM HOR 0.8MM	R234		036-15470-10	RES M/F 0805 47K 1%
L902		052-08120-15	COIL A/W 1.5T/2MM HOR 0.8MM	R236		036-15470-10	RES M/F 0805 47K 1%
M400		002-10000-13	MIXER DBL BALANCE 5-1500MHZ	R238		036-11470-00	RES M/F 0805 4E7 10%
PL100		070-01001-00	D-RANGE 15 WAY COMPL T800	R239		036-14100-10	RES M/F 0805 1K 1%
PL200		240-10000-16	HEADER 4W PCB MTG SMD	R241		036-14100-10	RES M/F 0805 1K 1%
PL210		240-10000-16	HEADER 4W PCB MTG SMD	R242		036-13100-10	RES M/F 0805 100E 1%
PL220		240-10000-16	HEADER 4W PCB MTG SMD	R244		036-14680-10	RES M/F 0805 6K8 1%
PL230		240-10000-16	HEADER 4W PCB MTG SMD	R245		036-14100-10	RES M/F 0805 1K 1%
PL240		240-10000-16	HEADER 5W PCB MTG SMD	R247		036-14220-00	RES M/F 0805 2K2 5%
PL250		240-10000-16	HEADER 4W PCB MTG SMD	R249		036-15100-10	RES M/F 0805 10K 1%
PL260		240-10000-16	HEADER 4W PCB MTG SMD	R251		036-15390-10	RES M/F 0805 39K 1%
PL270		240-10000-16	HEADER 4W PCB MTG SMD	R252		036-14470-10	RES M/F 0805 4K7 1%
Q210		000-10008-48	S) XSTR SMD BCW60 NPN SOT23 SS	R254		036-14820-10	RES M/F 0805 8K2 1%
Q220		000-10008-48	S) XSTR SMD BCW60 NPN SOT23 SS	R255		036-15470-10	RES M/F 0805 47K 1%
Q230		000-10008-48	S) XSTR SMD BCW60 NPN SOT23 SS	R256		036-14270-10	RES M/F 0805 2K7 1%
Q240		000-10008-57	S) XSTR SMD BCW70 PNP SOT23 SS	R258		036-15470-10	RES M/F 0805 47K 1%
Q245		000-10008-57	S) XSTR SMD BCW70 PNP SOT23 SS	R260		036-11470-00	RES M/F 0805 4E7 10%
Q250		000-10008-48	S) XSTR SMD BCW60 NPN SOT23 SS	R261		036-13150-10	RES M/F 0805 150E 1%
Q255		000-10008-57	S) XSTR SMD BCW70 PNP SOT23 SS	R262		036-14100-10	RES M/F 0805 1K 1%
Q260		000-10008-48	S) XSTR SMD BCW60 NPN SOT23 SS	R264		036-15150-00	RES M/F 0805 15K 5%
Q270		000-10008-17	S) XSTR SMD BC817-25 NPN SOT23	R265		036-13100-10	RES M/F 0805 100E 1%
Q280		000-10008-48	S) XSTR SMD BCW60 NPN SOT23 SS	R266		036-15470-10	RES M/F 0805 47K 1%
Q290		000-10008-48	S) XSTR SMD BCW60 NPN SOT23 SS	R267		036-16390-00	RES M/F 0805 390K 5%
Q300		000-10003-10	S) XSTR SMD BFJ310 JFET UHF	R269		036-14220-00	RES M/F 0805 2K2 5%
Q301		000-10008-92	S) XSTR SMD BFS17 NPN SOT23	R271		036-16100-10	RES M/F 0805 100K 1%
Q302		000-10009-41	S) XSTR SMD BR941L SOT23	R272		036-15470-10	RES M/F 0805 47K 1%
Q346		000-10008-48	S) XSTR SMD BCW60 NPN SOT23 SS	R273		036-15150-00	RES M/F 0805 15K 5%
Q400		000-10008-57	S) XSTR SMD BCW70 PNP SOT23 SS	R274		036-13120-00	RES M/F 0805 120E 5%
Q401		000-10009-30	XSTR SMD BFR93A NPN SOT23	R275		036-13100-10	RES M/F 0805 100E 1%
Q402		000-10008-57	S) XSTR SMD BCW70 PNP SOT23 SS	R276		036-13120-00	RES M/F 0805 120E 5%
Q403		000-10009-30	XSTR SMD BFR93A NPN SOT23	R277		036-14560-00	RES M/F 0805 5K6 5%
Q500		000-10008-48	S) XSTR SMD BCW60 NPN SOT23 SS	R278		036-16220-00	RES M/F 0805 220K 5%
Q501		000-10008-48	S) XSTR SMD BCW60 NPN SOT23 SS	R279		036-12270-00	RES M/F 0805 27E 5%
Q502		000-10008-07	S) XSTR SMD BC807 PNP SOT23 AF	R280		036-16100-10	RES M/F 0805 100K 1%
Q503		000-10008-07	S) XSTR SMD BC807 PNP SOT23 AF	R281		036-14470-10	RES M/F 0805 4K7 1%
Q504		000-10009-30	XSTR SMD BFR93A NPN SOT23	R282		036-16100-10	RES M/F 0805 100K 1%
Q540		000-10009-41	S) XSTR SMD BR941L SOT23	R284		036-13100-10	RES M/F 0805 100E 1%
Q541		000-10009-41	S) XSTR SMD BR941L SOT23	R285		036-15470-10	RES M/F 0805 47K 1%
Q542		000-10008-07	S) XSTR SMD BC807 PNP SOT23 AF	R287		036-15100-10	RES M/F 0805 10K 1%
Q543		002-10003-18	IC BGA318 MMIC AMPLIFIER	R288		036-14470-10	RES M/F 0805 4K7 1%
Q544		000-10008-07	S) XSTR SMD BC807 PNP SOT23 AF	R289		036-14680-10	RES M/F 0805 6K8 1%
Q545		000-10008-07	S) XSTR SMD BC807 PNP SOT23 AF	R290		036-14100-10	RES M/F 0805 1K 1%
Q546		000-10008-07	S) XSTR SMD BC807 PNP SOT23 AF	R292		036-14680-10	RES M/F 0805 6K8 1%
Q590		000-10008-48	S) XSTR SMD BCW60 NPN SOT23 SS	R293		036-13560-10	RES M/F 0805 560E 1%
Q591		000-10008-07	S) XSTR SMD BC807 PNP SOT23 AF	R294		036-14100-10	RES M/F 0805 1K 1%
Q592		000-10008-48	S) XSTR SMD BCW60 NPN SOT23 SS	R295		036-14680-10	RES M/F 0805 6K8 1%
Q620		000-00033-12	XSTR BD242 TO-220 PNP ISOLDT	R296		036-14120-00	RES M/F 0805 1K2 5%
Q630		000-10003-00	S) XSTR BSR30 PNP AF SOT-89	R297		030-52100-20	RES FILM AI 10E 5% 0.4W 4X1.6
Q660		000-10008-17	S) XSTR SMD BC817-25 NPN SOT23	R298		036-15470-10	RES M/F 0805 47K 1%
Q670		000-10008-57	S) XSTR SMD BCW70 PNP SOT23 SS	R299		036-15470-10	RES M/F 0805 47K 1%
Q750		000-10008-07	S) XSTR SMD BC807 PNP SOT23 AF	R300		036-12820-00	RES M/F 0805 82E 5%
Q760		000-10008-48	S) XSTR SMD BCW60 NPN SOT23 SS	R301		036-12100-10	RES M/F 0805 10E 1%
Q770		000-10008-57	S) XSTR SMD BCW70 PNP SOT23 SS	R302		036-13100-10	RES M/F 0805 100E 1%
Q775		000-10008-57	S) XSTR SMD BCW70 PNP SOT23 SS	R303		036-14270-10	RES M/F 0805 2K7 1%
Q780		000-10008-48	S) XSTR SMD BCW60 NPN SOT23 SS	R304		036-14220-00	RES M/F 0805 2K2 5%
Q785		000-10008-57	S) XSTR SMD BCW70 PNP SOT23 SS	R307		036-13100-10	RES M/F 0805 100E 1%
Q790		000-10003-12	S) XSTR SMD BFR31 N JFET SOT23	R308		036-15150-00	RES M/F 0805 15K 5%
Q795		000-10009-30	XSTR SMD BFR93A NPN SOT23	R309		036-15100-10	RES M/F 0805 10K 1%
Q810		000-10008-17	S) XSTR SMD BC817-25 NPN SOT23	R310		036-15100-10	RES M/F 0805 10K 1%
Q820		000-10008-57	S) XSTR SMD BCW70 PNP SOT23 SS	R311		036-13100-10	RES M/F 0805 100E 1%
Q840		000-10008-57	S) XSTR SMD BCW70 PNP SOT23 SS	&R312	10	036-12470-00	RES M/F 0805 47E 5%
Q850		000-10008-48	S) XSTR SMD BCW60 NPN SOT23 SS	&R312	25	036-12220-00	RES M/F 0805 22E 5%
Q860		000-10008-57	S) XSTR SMD BCW70 PNP SOT23 SS	&R312	30	036-12470-00	RES M/F 0805 47E 5%
Q870		000-10008-48	S) XSTR SMD BCW60 NPN SOT23 SS	R314		036-14150-10	RES M/F 0805 1K5 1%
Q880		000-10008-48	S) XSTR SMD BCW60 NPN SOT23 SS	R315		036-14330-10	RES M/F 0805 3K3 1%
Q890		000-10008-48	S) XSTR SMD BCW60 NPN SOT23 SS	R316		036-14100-10	RES M/F 0805 1K 1%
Q895		000-10008-48	S) XSTR SMD BCW60 NPN SOT23 SS	R344		036-17100-10	RES M/F 0805 1M 1%
R160		036-12100-10	RES M/F 0805 10E 1%	R345		036-10000-00	RES M/F 0805 ZERO OHM
R201		036-14470-10	RES M/F 0805 4K7 1%	R347		036-12220-00	RES M/F 0805 22E 5%
R202		036-14470-10	RES M/F 0805 4K7 1%	&R349	10	036-15560-10	RES MF 0805 56K 1%
R204		036-15100-10	RES M/F 0805 10K 1%	&R349	25	036-16100-10	RES M/F 0805 100K 1%
R205		036-16220-00	RES M/F 0805 220K 5%	&R349	30	036-15560-10	RES MF 0805 56K 1%
R207		036-14820-10	RES M/F 0805 8K2 1%	R350		036-14150-10	RES M/F 0805 1K5 1%
&R209	10	036-15220-00	RES M/F 0805 22K 5%	R351		036-14100-10	RES M/F 0805 1K 1%
				R352		036-14220-00	RES M/F 0805 2K2 5%
				R353		036-15820-00	RES M/F 0805 82K 5%
				R354		036-16560-00	RES M/F 0805 560K 5%
				R355		036-15470-10	RES M/F 0805 47K 1%

Ref	Var	IPN	Description	Ref	Var	IPN	Description
R356		036-15220-00	RES M/F 0805 22K 5%	R563		036-16180-00	RES M/F 0805 180K 5%
R357		036-16120-10	RES M/F 0805 120K 1%	R564		036-12330-00	RES M/F 0805 33E 5%
R358		036-15100-10	RES M/F 0805 10K 1%	R571		036-11470-00	RES M/F 0805 4E7 10%
R359		036-15100-10	RES M/F 0805 10K 1%	R572		036-13820-00	RES M/F 0805 820E 5%
R362		036-15270-10	RES M/F 0805 27K 1%	R573		036-11470-00	RES M/F 0805 4E7 10%
R363		036-14820-10	RES M/F 0805 8K2 1%	R574		036-13820-00	RES M/F 0805 820E 5%
R364		036-14560-00	RES M/F 0805 5K6 5%	R575		036-14150-10	RES M/F 0805 1K5 1%
R365		036-15100-10	RES M/F 0805 10K 1%	R576		036-14680-10	RES M/F 0805 6K8 1%
R366		036-16220-00	RES M/F 0805 220K 5%	R578		036-12270-00	RES M/F 0805 27E 5%
R367		045-15100-00	RES NTC SMD 10K 5%	R579		036-14100-10	RES M/F 0805 1K 1%
R368		036-16390-00	RES M/F 0805 390K 5%	R580		036-10000-00	RES M/F 0805 ZERO OHM
R369		036-14560-00	RES M/F 0805 5K6 5%	R586		036-13470-00	RES M/F 0805 470E 5%
R370		036-14390-10	RES M/F 0805 3K9 1%	R590		036-14100-10	RES M/F 0805 1K 1%
R371		036-16220-00	RES M/F 0805 220K 5%	R591		036-15220-00	RES M/F 0805 22K 5%
R372		036-14100-10	RES M/F 0805 1K 1%	R592		036-14220-00	RES M/F 0805 2K2 5%
R373		036-16220-00	RES M/F 0805 220K 5%	R615		036-13100-10	RES M/F 0805 100E 1%
R374		036-15100-10	RES M/F 0805 10K 1%	R617		036-10000-00	RES M/F 0805 ZERO OHM
R375		036-15100-10	RES M/F 0805 10K 1%	R619		036-01100-10	RES 1 OHM 1 WATT 2512 CHIP
R376		036-15100-10	RES M/F 0805 10K 1%	R621		036-01100-10	RES 1 OHM 1 WATT 2512 CHIP
R377		036-16390-00	RES M/F 0805 390K 5%	R625		036-14100-10	RES M/F 0805 1K 1%
R378		036-14220-00	RES M/F 0805 2K2 5%	R629		036-03270-10	RES 270 OHM 1 WATT 2512 CHIP
R379		036-14820-10	RES M/F 0805 8K2 1%	R633		036-14680-10	RES M/F 0805 6K8 1%
R380		036-14100-10	RES M/F 0805 1K 1%	R636		036-12220-00	RES M/F 0805 22E 5%
R381		036-14560-00	RES M/F 0805 5K6 5%	R637		036-12220-00	RES M/F 0805 22E 5%
R382		036-14820-10	RES M/F 0805 8K2 1%	R640		036-12100-10	RES M/F 0805 10E 1%
R384		036-16390-00	RES M/F 0805 390K 5%	R641		036-14150-10	RES M/F 0805 1K5 1%
R385		036-16390-00	RES M/F 0805 390K 5%	R645		036-13470-00	RES M/F 0805 470E 5%
R387		036-15100-10	RES M/F 0805 10K 1%	R649		036-14470-10	RES M/F 0805 4K7 1%
R388		036-15470-10	RES M/F 0805 47K 1%	R653		036-15100-10	RES M/F 0805 10K 1%
R389		036-15470-10	RES M/F 0805 47K 1%	R681		036-13100-10	RES M/F 0805 100E 1%
R391		036-13220-10	RES 0805 220E 1%	R685		036-15150-00	RES M/F 0805 15K 5%
R392		036-14330-10	RES M/F 0805 3K3 1%	R689		036-12100-10	RES M/F 0805 10E 1%
R393		036-16220-00	RES M/F 0805 220K 5%	R693		036-16100-10	RES M/F 0805 100K 1%
R394		036-14100-10	RES M/F 0805 1K 1%	R696		036-15560-10	RES MF 0805 56K 1%
R395		036-14220-00	RES M/F 0805 2K2 5%	R701		036-12220-00	RES M/F 0805 22E 5%
R396		036-15820-00	RES M/F 0805 82K 5%	R702		036-17100-10	RES M/F 0805 1M 1%
R397		036-16560-00	RES M/F 0805 560K 5%	R703		036-17100-10	RES M/F 0805 1M 1%
R400		036-14100-10	RES M/F 0805 1K 1%	R706		036-15150-00	RES M/F 0805 15K 5%
R401		036-14390-10	RES M/F 0805 3K9 1%	R707		036-15470-10	RES M/F 0805 47K 1%
R402		036-14220-00	RES M/F 0805 2K2 5%	R708		036-13100-10	RES M/F 0805 100E 1%
R403		036-12100-10	RES M/F 0805 10E 1%	R709		036-13100-10	RES M/F 0805 100E 1%
R404		036-12330-00	RES M/F 0805 33E 5%	R710		036-13100-10	RES M/F 0805 100E 1%
R407		036-13180-00	RES M/F 0805 180E 5%	R711		036-13100-10	RES M/F 0805 100E 1%
R408		036-17100-10	RES M/F 0805 1M 1%	R712		036-12100-10	RES M/F 0805 10E 1%
R409		036-10000-00	RES M/F 0805 ZERO OHM	R730		036-13470-00	RES M/F 0805 470E 5%
R410		036-12100-10	RES M/F 0805 10E 1%	R731		036-13470-00	RES M/F 0805 470E 5%
R411		036-17100-10	RES M/F 0805 1M 1%	R732		036-13470-00	RES M/F 0805 470E 5%
R414		036-12100-10	RES M/F 0805 10E 1%	R742		036-13150-10	RES M/F 0805 150E 1%
R415		036-14100-10	RES M/F 0805 1K 1%	R743		036-13150-10	RES M/F 0805 150E 1%
R416		036-14390-10	RES M/F 0805 3K9 1%	R744		036-12220-00	RES M/F 0805 22E 5%
R417		036-14220-00	RES M/F 0805 2K2 5%	R746		036-12220-00	RES M/F 0805 22E 5%
R418		036-12100-10	RES M/F 0805 10E 1%	R747		036-12220-00	RES M/F 0805 22E 5%
R421		036-12330-00	RES M/F 0805 33E 5%	R748		036-15470-10	RES M/F 0805 47K 1%
R422		036-13470-00	RES M/F 0805 470E 5%	R749		036-15470-10	RES M/F 0805 47K 1%
R423		036-13470-00	RES M/F 0805 470E 5%	R750		036-12220-00	RES M/F 0805 22E 5%
R424		036-12120-00	RES M/F 0805 12E 5%	R752		036-12220-00	RES M/F 0805 22E 5%
R425		036-13470-00	RES M/F 0805 470E 5%	R753		036-17100-10	RES M/F 0805 1M 1%
R428		036-13470-00	RES M/F 0805 470E 5%	R754		036-14100-10	RES M/F 0805 1K 1%
R429		036-13470-00	RES M/F 0805 470E 5%	R756		036-16470-00	RES M/F 0805 470K 5%
R430		036-12120-00	RES M/F 0805 12E 5%	R757		036-16470-00	RES M/F 0805 470K 5%
R431		036-12470-00	RES M/F 0805 47E 5%	R758		036-14120-00	RES M/F 0805 1K2 5%
R500		036-12100-10	RES M/F 0805 10E 1%	R759		036-13330-00	RES M/F 0805 330E 5%
R501		036-15390-10	RES M/F 0805 39K 1%	R760		036-13180-00	RES M/F 0805 180E 5%
R502		036-13330-00	RES M/F 0805 330E 5%	R762		036-13100-10	RES M/F 0805 100E 1%
R503		036-13220-10	RES 0805 220E 1%	R763		036-13100-10	RES M/F 0805 100E 1%
R505		036-13820-00	RES M/F 0805 820E 5%	R765		036-13680-00	RES M/F 0805 680E 5%
&R506	10	036-12470-00	RES M/F 0805 47E 5%	R766		036-14100-10	RES M/F 0805 1K 1%
&R506	25	036-12470-00	RES M/F 0805 47E 5%	R767		036-13680-00	RES M/F 0805 680E 5%
&R506	30	036-12470-00	RES M/F 0805 47E 5%	R769		036-13180-00	RES M/F 0805 180E 5%
&R507	10	036-12470-00	RES M/F 0805 47E 5%	R771		036-14820-10	RES M/F 0805 8K2 1%
&R507	25	036-12470-00	RES M/F 0805 47E 5%	R772		036-15220-00	RES M/F 0805 22K 5%
&R507	30	036-12470-00	RES M/F 0805 47E 5%	R774		036-14820-10	RES M/F 0805 8K2 1%
R508		036-11470-00	RES M/F 0805 4E7 10%	R775		036-15180-10	RES M/F 0805 18K 1%
R509		036-12100-10	RES M/F 0805 10E 1%	R784		036-12680-00	RES M/F 0805 68E 5%
R511		036-14180-00	RES M/F 0805 1K8 5%	R785		036-14330-10	RES M/F 0805 3K3 1%
&R516	10	036-11330-00	RES M/F 0805 3E3 5%	R786		036-12100-10	RES M/F 0805 10E 1%
&R516	25	036-11470-00	RES M/F 0805 4E7 10%	R787		036-12100-10	RES M/F 0805 10E 1%
&R516	30	036-11470-00	RES M/F 0805 4E7 10%	R790		036-13390-10	RES M/F 0805 390E 1%
R517		036-13100-10	RES M/F 0805 100E 1%	R791		036-14100-10	RES M/F 0805 1K 1%
R518		036-12330-00	RES M/F 0805 33E 5%	R793		036-12180-00	RES M/F 0805 18E 5%
R520		036-14220-00	RES M/F 0805 2K2 5%	R794		036-13120-00	RES M/F 0805 120E 5%
R540		036-12330-00	RES M/F 0805 33E 5%	R804		036-15470-10	RES M/F 0805 47K 1%
R541		036-11470-00	RES M/F 0805 4E7 10%	R805		036-13470-00	RES M/F 0805 470E 5%
R542		036-11470-00	RES M/F 0805 4E7 10%	R808		036-12100-10	RES M/F 0805 10E 1%
R543		036-14180-00	RES M/F 0805 1K8 5%	R809		036-14470-10	RES M/F 0805 4K7 1%
R544		036-14220-00	RES M/F 0805 2K2 5%	R810		036-14470-10	RES M/F 0805 4K7 1%
R545		036-14100-10	RES M/F 0805 1K 1%	R811		036-14470-10	RES M/F 0805 4K7 1%
R546		036-12270-00	RES M/F 0805 27E 5%	R812		036-14470-10	RES M/F 0805 4K7 1%
R547		036-12680-00	RES M/F 0805 68E 5%	R813		036-14470-10	RES M/F 0805 4K7 1%
R548		036-10000-00	RES M/F 0805 ZERO OHM	R815		036-15470-10	RES M/F 0805 47K 1%
R549		036-12120-00	RES M/F 0805 12E 5%	R816		036-16150-00	RES M/F 0805 150K 5%
R550		036-12560-00	RES M/F 0805 56E 5%	R818		036-14470-10	RES M/F 0805 4K7 1%
R554		036-12680-00	RES M/F 0805 68E 5%	R819		036-14470-10	RES M/F 0805 4K7 1%
R557		036-13120-00	RES M/F 0805 120E 5%	R820		036-15470-10	RES M/F 0805 47K 1%
R558		036-12100-10	RES M/F 0805 10E 1%	R821		036-15470-10	RES M/F 0805 47K 1%
R560		036-11470-00	RES M/F 0805 4E7 10%	R822		036-15470-10	RES M/F 0805 47K 1%
R561		036-14330-10	RES M/F 0805 3K3 1%	R823		036-15470-10	RES M/F 0805 47K 1%
R562		036-15150-00	RES M/F 0805 15K 5%	R824		036-14220-00	RES M/F 0805 2K2 5%

Ref	Var	IPN	Description	Ref	Var	IPN	Description
R825		036-14220-00	RES M/F 0805 2K2 5%	&XF302	30	276-00010-68	FLTR XTL 45MHZ 15KHZ 2 POLE
R826		036-14220-00	RES M/F 0805 2K2 5%				
R827		036-14220-00	RES M/F 0805 2K2 5%				
R828		036-14220-00	RES M/F 0805 2K2 5%				
R829		036-14220-00	RES M/F 0805 2K2 5%				
R830		036-14220-00	RES M/F 0805 2K2 5%				
R831		036-14220-00	RES M/F 0805 2K2 5%				
R832		036-14220-00	RES M/F 0805 2K2 5%				
R833		036-14220-00	RES M/F 0805 2K2 5%				
R835		036-14220-00	RES M/F 0805 2K2 5%				
R836		036-14220-00	RES M/F 0805 2K2 5%				
R837		036-14220-00	RES M/F 0805 2K2 5%				
R838		036-14470-10	RES M/F 0805 4K7 1%				
R839		036-14470-10	RES M/F 0805 4K7 1%				
R840		036-14220-00	RES M/F 0805 2K2 5%				
R841		036-14220-00	RES M/F 0805 2K2 5%				
R842		036-14220-00	RES M/F 0805 2K2 5%				
R843		036-14220-00	RES M/F 0805 2K2 5%				
R844		036-15470-10	RES M/F 0805 47K 1%				
R845		036-16150-00	RES M/F 0805 150K 5%				
R846		036-14470-10	RES M/F 0805 4K7 1%				
R847		036-14470-10	RES M/F 0805 4K7 1%				
R848		036-13470-00	RES M/F 0805 470E 5%				
R852		036-14470-10	RES M/F 0805 4K7 1%				
R853		036-13470-00	RES M/F 0805 470E 5%				
R854		036-16330-00	RES M/F 0805 330K 5%				
R855		036-15470-10	RES M/F 0805 47K 1%				
R856		036-16150-00	RES M/F 0805 150K 5%				
R857		036-16150-00	RES M/F 0805 150K 5%				
R858		036-15270-10	RES M/F 0805 27K 1%				
R859		036-17120-10	RES M/F 0805 1M2 1%				
R860		036-16820-10	RES M/F 0805 820K 1%				
R861		036-14510-10	RES M/F 0805 5K1 1%				
R863		036-14470-10	RES M/F 0805 4K7 1%				
R865		036-14270-10	RES M/F 0805 2K7 1%				
R866		036-16820-10	RES M/F 0805 820K 1%				
R867		036-16820-10	RES M/F 0805 820K 1%				
R868		036-14470-10	RES M/F 0805 4K7 1%				
R869		036-15270-10	RES M/F 0805 27K 1%				
R870		036-17120-10	RES M/F 0805 1M2 1%				
R871		036-16820-10	RES M/F 0805 820K 1%				
R872		036-14510-10	RES M/F 0805 5K1 1%				
R873		036-14220-00	RES M/F 0805 2K2 5%				
R875		036-14470-10	RES M/F 0805 4K7 1%				
R876		036-16100-10	RES M/F 0805 100K 1%				
R877		036-16100-10	RES M/F 0805 100K 1%				
R878		036-16100-10	RES M/F 0805 100K 1%				
R879		036-16100-10	RES M/F 0805 100K 1%				
R881		036-15470-10	RES M/F 0805 47K 1%				
R882		036-15470-10	RES M/F 0805 47K 1%				
R884		036-16150-00	RES M/F 0805 150K 5%				
R885		036-16150-00	RES M/F 0805 150K 5%				
R886		036-15100-10	RES M/F 0805 10K 1%				
R887		036-14100-10	RES M/F 0805 1K 1%				
R888		036-14820-10	RES M/F 0805 8K2 1%				
R889		036-16100-10	RES M/F 0805 100K 1%				
R890		036-16150-00	RES M/F 0805 150K 5%				
R891		036-16100-10	RES M/F 0805 100K 1%				
R892		036-16330-00	RES M/F 0805 330K 5%				
R894		036-14470-10	RES M/F 0805 4K7 1%				
R895		036-15100-10	RES M/F 0805 10K 1%				
R897		036-15100-10	RES M/F 0805 10K 1%				
R898		036-16470-00	RES M/F 0805 470K 5%				
R900		036-15100-10	RES M/F 0805 10K 1%				
RL210		237-10010-00	RELAY 12V DPDT 10PIN SMD				
RV205		040-05100-22	POT 10K LOG DUAL PCB 6 OD SFT				
RV210		040-05100-23	POT 10K LOG PCB 15MM SLOT SFT				
RV220		042-05100-05	RES PRESET SMD 10K CER 4MM SQ				
RV230		040-05100-21	POT 10K LIN PCB 15MM SLOT SFT				
RV235		042-05100-05	RES PRESET SMD 10K CER 4MM SQ				
RV345		042-04220-05	RES PRESET SMD 2K CER 4MM SQ				
RV346		042-05100-05	RES PRESET SMD 10K CER 4MM SQ				
SHLD610		062-00010-13	CAN 10MMSQ*11MM CAN SANWA 613				
SK805		240-10000-07	CONN SMD SKT 16W 2R M-MATCH				
SK810		240-04020-42	SKT 44 PIN SMD PLCC				
SW201		230-00010-30	SWITCH TOG SPDT R-ANG PCB MTG				
T210		053-00010-17	XFMR T4030 LINE MATCH POTCORE				
T540		000-10080-00	XSTR SMD BLT80 UHF PWR SOT223				
T610		050-15119-52	COIL SMD 680uH XFMR 5119-T052				
TL500		051-10950-00	COAX RES 950 MHZ 6X6 SMD				
X300		274-00010-22	XTAL 44.545MHZ TE/22 HC45/U				
&XF300A	10	276-00010-86	FLTR XTL 45MHZ 15KHz BW 4P				
&XF300A	25	276-00010-87	FLTR XTL 45MHZ 7.5KHz BW 4P				
&XF300A	30	276-00010-86	FLTR XTL 45MHZ 15KHz BW 4P				
&XF300B	10	276-00010-86	FLTR XTL 45MHZ 15KHz BW 4P				
&XF300B	25	276-00010-87	FLTR XTL 45MHZ 7.5KHz BW 4P				
&XF300B	30	276-00010-86	FLTR XTL 45MHZ 15KHz BW 4P				
&XF302	10	276-00010-68	FLTR XTL 45MHZ 15KHZ 2 POLE				
&XF302	25	276-00010-69	FLTR XTL 45MHZ 7.5KHZ 2 POLE				

T885 Mechanical & Miscellaneous Parts (220-01595-02)

IPN	Legend	Description	IPN	Legend	Description
002-08951-20		S) IC AT89C51 PLCC44 MIC 12MHZ			
066-00010-20		SLUG BRASS A4M764 HELIC RESNTR			
220-01595-02		PCB T885 RX SERIES II			
230-00010-31		SWITCH COVER FOR 230-00010-30			
240-02100-06		SKT COAX N TYPE PNL MTG OP-TER			
303-11169-04		CHASSIS PAINTED T800 SER II			
303-23118-00		COVER A3M2247 D RANGE T855/7			
303-50074-00		CLIP A3M2246 SPRING CLAMP T857			
308-01007-01		HANDLE BS SII 2 WASHERS INC			
308-01048-00		HOUSING A3M2378 DOUBLET H/RES			
311-01015-00		KNOB 15MM & SKIRT 6MM SFT			
312-01052-02		LID TOP T800 SER II PTND			
312-01053-02		LID BOTTOM T800 SER II PNTD			
316-06622-00		PNL FRT RX T800 SERIES II			
349-00020-36		SCREW TT M3X8m PANTORX BLK			
349-00020-43		SCRW T/T M4X12MM P/POZ BZ			
349-00020-45		SCRW T/T M4X20MM P/POZ BZ			
352-00010-29		NUT M4 NYLOC HEX			
352-00010-54		NUT Brass hex 1/4" UNF 3mm			
353-00010-24		WSHR M4x8mm Flat			
356-00010-03		TAG SOLDER 3MM LONG M614/3.2			
362-00010-33		GROMMET LED MTG 3MM			
365-00011-53		LABEL 104*37MM			
365-00100-20		LABEL WHITE S/A 28X11MM			
399-00010-51		BAG PLASTIC 75*100MM			

T885 Grid Reference Index (IPN 220-01595-02)

How To Use This Grid Reference Index

The first digit in the PCB layout reference is a "1" or "2", indicating the top or bottom side layout respectively, and the last two characters give the location of the component on that diagram.

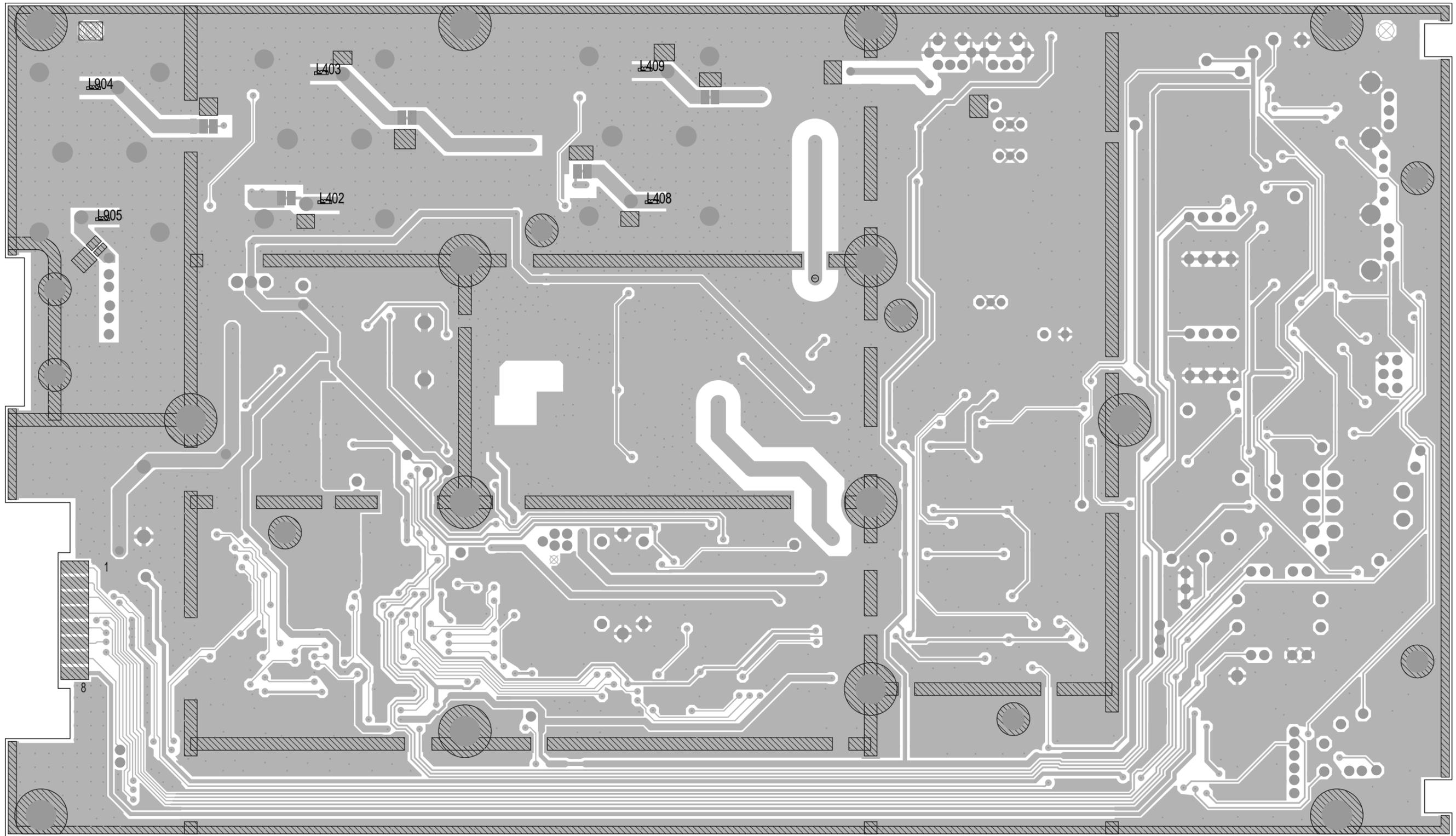
The first digit in the circuit diagram reference is the sheet number, and the last two characters give the location of the component on that sheet.

Device	PCB	Circuit									
C201	1:B5	2-B9	&C315	1:E7	3-G7	C409	1:K7	4-G3	C576	1:G5	5-N4
C203	1:C5	2-B8	C316	1:F7	3-G8	C410	1:K8	4-G4	C577	1:G6	5-N2
C205	1:D5	2-B8	C317	1:F7	3-H8	C411	1:J8	4-H5	C578	1:H6	5-N2
C207	1:C5	2-C8	&C318	1:E7	3-H7	C414	1:J8	4-H4	C579	1:H6	5-N2
C209	1:C6	2-E8	C321	1:E7	3-H7	C415	1:J8	4-H4	C585	1:G6	5-N2
C210	1:C5	2-D7	C322	1:E7	3-H7	C417	1:H8	4-L3	C586	1:G5	5-N4
C211	1:C4	2-D7	C324	1:E7	3-J7	C418	1:H8	4-M3	C587	1:G6	5-Q2
C212	1:C5	2-E8	C325	1:F7	3-J8	C422	1:G8	4-M4	C588	1:G6	5-Q2
C213	1:C5	2-E7	C328	1:E6	3-J8	C500	1:J4	5-D8	C590	1:J6	5-A8
C215	1:C4	2-E7	&C329	1:E7	3-K8	C501	1:J4	5-E8	C591	1:K6	5-B8
C217	1:C4	2-E7	&C330	1:E6	3-K8	C502	1:J5	5-E8	C592	1:K6	5-B8
C219	1:C5	2-H6	&C331	1:F6	3-L8	C503	1:J4	5-E8	C593	1:J6	5-B8
C221	1:C5	2-H6	&C332	1:E6	3-L8	C504	1:J5	5-F7	C594	1:J6	5-C8
C222	1:B5	2-J9	&C335	1:E6	3-M8	C505	1:K5	5-G7	C595	1:J6	5-C8
C223	1:B5	2-H8	C336	1:E6	3-M8	C506	1:J5	5-G6	C596	1:J5	5-C8
C225	1:B5	2-J8	C337	1:E6	3-M7	C507	1:J4	5-G7	C597	1:J5	5-D8
C227	1:B5	2-J8	C338	1:E5	3-M8	C508	1:J5	5-G7	C610A	1:M5	6-B6
C229	1:B6	2-K8	C339	1:E6	3-N8	C509	1:J5	5-G6	C610B	1:M5	6-B6
C231	1:B6	2-K8	C340	1:E3	3-N0	C510	1:J5	5-G7	C611A	1:M5	6-D6
C233	1:B5	2-J7	C341	1:E3	3-N0	C516	1:J5	5-G6	C611B	1:M4	6-D6
C235	1:B6	2-M6	C342	1:E5	3-B3	&C517	1:J5	5-H6	C623	1:N6	6-N8
C237	1:B6	2-M5	C343	1:E5	3-C3	C518	1:K5	5-J7	C625	1:M6	6-Q8
C238	1:B6	2-N7	C345	1:F4	3-D4	&C519	1:J5	5-J6	C626	1:M6	6-R8
C239	1:C6	2-P6	C346	1:F3	3-G0	C520	1:K5	5-J7	C628	1:M6	6-R8
C240A	1:D5	2-Q8	C347	1:E4	3-D4	&C521	1:J5	5-J5	C630	1:N5	6-K4
C240B	1:D5	2-R8	C348	1:E5	3-E4	&C522	1:J5	5-J6	C631A	1:M5	6-M6
C240C	1:D6	2-R8	C349	1:E5	3-E3	&C524	1:K5	5-K6	C631B	1:N4	6-M6
C249	1:D6	2-Q7	C350	1:E5	3-E4	&C525	1:K5	5-K6	C637	1:M6	6-P5
C251	1:C6	2-R7	C351	1:F3	3-E0	C531	1:J5	5-K6	C640	1:M5	6-G0
C253	1:D4	2-G5	C352	1:E3	3-F2	&C533	1:K5	5-L6	C650	1:N5	6-L4
C255	1:C7	2-L2	C353	1:F5	3-F3	C536	1:K4	5-Q6	C651	1:M5	6-M4
C257	1:C7	2-M2	C354	1:F4	3-G3	C537	1:K5	5-Q6	C658	1:L5	6-K1
C259	1:C7	2-M3	C355	1:F4	3-H2	C540	1:H6	5-D2	C660	1:L5	6-K1
C260A	1:D7	2-N4	C356	1:F4	3-H3	C541	1:H6	5-D1	C665	1:L5	6-L1
C260B	1:D7	2-M4	C357	1:F4	3-G4	C542	1:H6	5-E3	C670	1:L5	6-L1
C260C	1:D8	2-M4	C358	1:F4	3-L5	C543	1:J6	5-E2	C673	1:L5	6-N2
C261	1:C7	2-N2	C359	1:E3	3-H4	C544	1:H5	5-E1	C677	1:L6	6-P1
C262	1:D7	2-P3	C360	1:F3	3-J3	C545	1:J6	5-E2	C681	1:L6	6-Q2
C264	1:C7	2-P2	C361	1:E4	3-K3	C546	1:J5	5-F1	C684	1:M6	6-Q2
C266	1:D2	2-R3	C362	1:E4	3-K3	C547	1:J5	5-F0	C687	1:L6	6-P1
C268	1:D3	2-R3	C364	1:E4	3-M3	C548	1:J5	5-F0	C690	1:L6	6-Q1
C270	1:C8	2-E3	C365	1:E4	3-N3	C549	1:J6	5-F2	C693	1:L6	6-Q1
C272	1:C8	2-D2	C366	1:D5	3-M2	C555	1:J5	5-F0	C700	1:J4	7-A8
C273	1:C9	2-C1	C367	1:E3	3-K4	C556	1:H5	5-G3	C702	1:J4	7-B8
C274	1:C8	2-E2	C368	1:E4	3-L4	C557	1:J5	5-G0	C703	1:J3	7-B8
C276	1:D8	2-B0	C369	1:E4	3-L3	C558	1:J5	5-G0	C705	1:J3	7-C7
C278	1:D8	2-C0	C371	1:F3	3-E1	C559	1:H5	5-H4	C707	1:J2	7-B5
C280	1:D9	2-F1	C385	1:F8	3-P8	C560	1:G5	5-J4	C708	1:J3	7-C5
C286	1:B8	2-F1	C386	1:F8	3-P8	C561	1:H6	5-J2	C709	1:H3	7-C5
C300	1:F8	3-C7	C387	1:F7	3-R8	C562	1:G5	5-K4	C710A	1:H3	7-P7
C302	1:F8	3-D6	C389	1:F7	3-R8	C563	1:G5	5-L2	C710B	1:J4	7-Q7
C303	1:F8	3-E7	C390	1:E4	3-M0	C564	1:G5	5-K4	C710C	1:J3	7-P7
C304	1:E8	3-E8	C400	1:N8	4-C3	C569	1:G5	5-L4	C711	1:J2	7-E7
C307	1:E8	3-E8	C401	1:N8	4-D4	C570	1:H5	5-L2	C712	1:H2	7-E7
C308	1:E8	3-E8	C402	1:N8	4-D5	C571	1:G5	5-J2	C713	1:H2	7-E7
&C309	1:F8	3-E7	C403	1:M8	4-E4	C572	1:H6	5-L2	C735	1:J2	7-A1
C310	1:E8	3-E8	C404	1:N8	4-E3	C573	1:H5	5-M4	C736	1:H2	7-B1
&C311	1:F8	3-F7	C407	1:N7	4-E5	C574	1:G6	5-M4	C740A	1:H2	7-B4
&C314	1:E8	3-G7	C408	1:K7	4-G5	C575	1:H6	5-N2	C740B	1:G2	7-B3

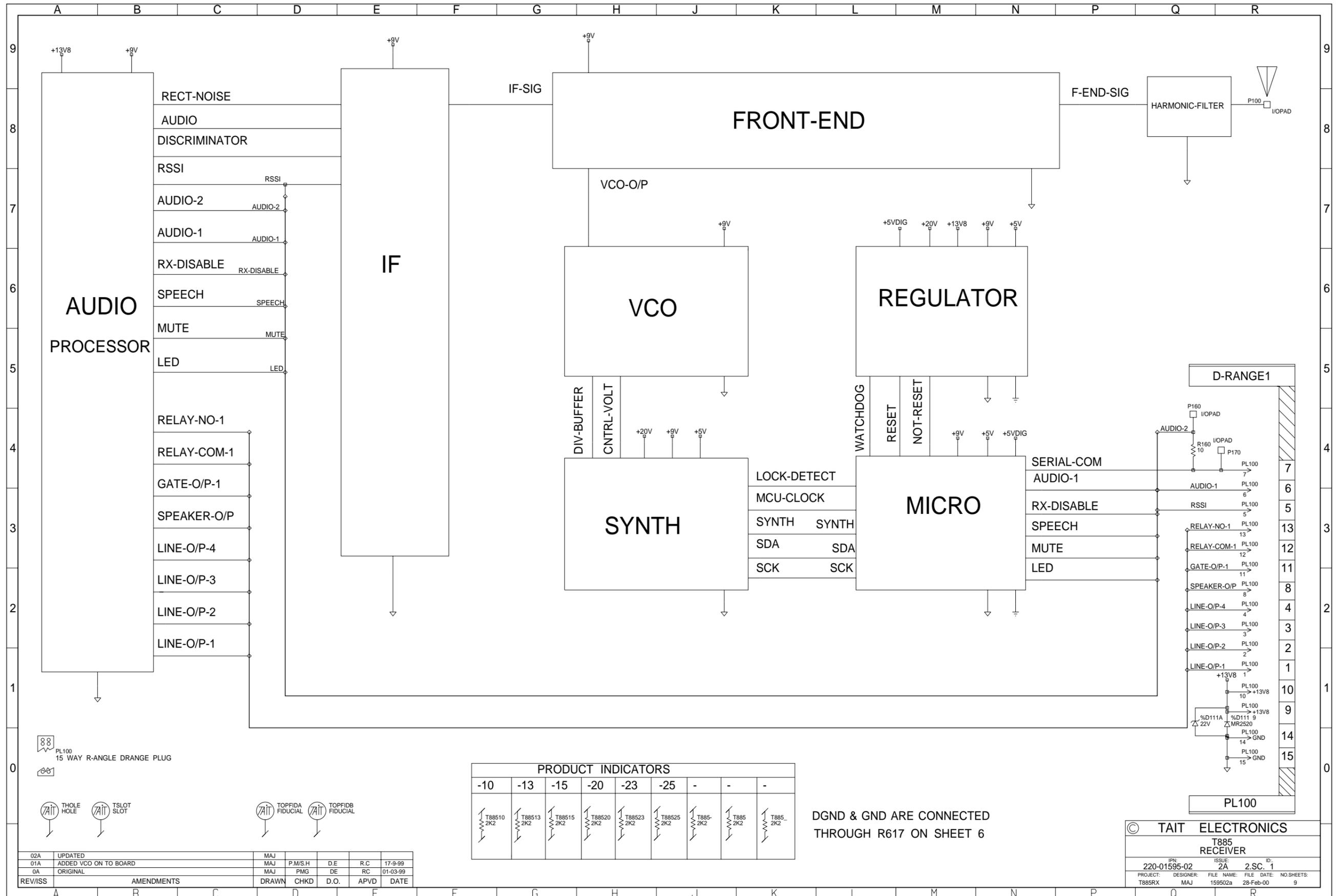
Device	PCB	Circuit									
C741A	1:H2	7-C4	D289	1:B2	2-K0	IC830	1:N4	8-K0	P254	1:B2	2-K9
C741B	1:G2	7-C3	D290	1:B2	2-L0	IC830	1:N4	8-D0	P256	1:B2	2-L8
C742A	1:H2	7-D4	D295	1:B2	2-L0	IC830	1:N4	8-F2	P258	1:D3	2-P8
C742B	1:H2	7-D3	D330	1:E4	3-L4	IC830	1:N4	8-D2	P260	1:D3	2-P7
C743	1:H2	7-B1	D330	1:E4	3-L3	IC840	1:M2	8-L0	P263	1:C2	2-R6
C745	1:G3	7-D1	D500	1:K5	5-N7	IC850	1:M3	8-P1	P266	1:C2	2-R5
C750	1:H4	7-R7	D501	1:K5	5-N6	IC850	1:M3	8-Q2	P268	1:C2	2-R5
C757	1:G4	7-G5	D502	1:K5	5-N6	IC850	1:M3	8-M2	P270	1:C1	2-R5
C759	1:G4	7-G4	D503	1:K5	5-N6	IC850	1:M3	8-M2	P280	1:C2	2-R4
C761	1:G3	7-J4	D504	1:K5	5-P6	IC850	1:M3	8-M0	P282	1:C2	2-R4
C762	1:G3	7-K4	D505	1:K5	5-P6				P284	1:B4	2-R4
C764	1:G3	7-J2	D610	1:N6	6-L6	L230	1:D2	2-K2	P287	1:B2	2-R0
C765	1:G3	7-J2	D610	1:N6	6-M6	L300	1:F8	3-D7	P810	1:K2	8-A5
C767	1:H3	7-K3	D640	1:L5	6-M1	L301	1:E8	3-E8	P815	1:L4	8-C4
C769	1:H3	7-M4	D640	1:L5	6-M2	L302	1:F8	3-E7	P820	1:K4	8-L8
C770	1:H3	7-M4	D645	1:M5	6-H0	&L303	1:E7	3-H7	P825	1:K4	8-L8
C772	1:G3	7-M2	D730A	1:H3	7-H1	&L304	1:E6	3-K8	P830	1:K4	8-L8
C774	1:H4	7-N2	D740A	1:H3	7-K2	&L307	1:E6	3-L8	P835	1:K4	8-L7
C776	1:H4	7-M1	D820A	1:J3	8-B7	L308	1:E6	3-M8	P840	1:K4	8-L7
C780	1:G3	7-N1	D860	1:M2	8-P0	L345	1:F5	3-E4			
C782	1:G2	7-N0	D860	1:M2	8-P0	L400	1:N8	4-D4	PIN4	1:J4	7-B8
C784	1:G3	7-Q1	D880	1:M2	8-R2	L401	1:N7	4-D3			
C786	1:G3	7-Q1	D880	1:M2	8-R2	L402	2:M7	4-F3	PL100	1:P3	1-A0
C788	1:G3	7-P0				L403	2:M8	4-F3	PL200	1:C6	2-R7
C790	1:G4	7-Q0	#H400	1:M8	4-F4	L404	1:K8	4-H4	PL210	1:C5	2-B8
C792	1:G4	7-Q0	#H401	1:J8	4-K4	L407	1:K7	4-H3	PL220	1:B5	2-H7
C810	1:L4	8-J8	#H900	1:P8	9-D5	L408	2:J7	4-K3	PL230	1:B2	2-L8
C812	1:K2	8-F4				L409	2:J8	4-K3	PL240	1:B6	2-K7
C813	1:J3	8-J5	IC210	1:C5	2-F7	L410	1:H8	4-L3	PL250	1:C8	2-C3
C814	1:L2	8-F6	IC210	1:C5	2-G7	L414	1:G8	4-L4	PL260	1:C4	2-H3
C815	1:N3	8-B1	IC210	1:C5	2-C7	L500	1:K5	5-J7	PL270	1:C2	2-L1
C816	1:N3	8-B1	IC240	1:C6	2-P7	L501	1:K5	5-J7			
C818	1:N3	8-C1	IC260	1:C7	2-N2	L502	1:K5	5-M6	Q210	1:B5	2-J8
C819	1:N3	8-C1	IC270	1:C8	2-B2	L503	1:K5	5-M6	Q220	1:B6	2-M6
C820	1:N4	8-D1	IC270	1:C8	2-F3	L504	1:K5	5-P6	Q230	1:B6	2-N6
C822	1:N3	8-D2	IC270	1:C8	2-E2	L505	1:K5	5-P6	Q240	1:C4	2-H4
C824	1:N3	8-D2	IC280	1:D8	2-E1	L540	1:H6	5-K2	Q245	1:B6	2-J4
C826	1:N3	8-D0	IC280	1:D8	2-B0	L541	1:H6	5-N2	Q250	1:C8	2-G2
C828	1:N3	8-D0	IC280	1:D8	2-D0	L543	1:G6	5-P2	Q255	1:C7	2-H2
C830	1:M4	8-K0	IC300	1:E5	3-K0	L700	1:G4	7-Q0	Q260	1:B7	2-K0
C832	1:M3	8-E2	IC300	1:E5	3-M8	L900	1:P6	9-F5	Q270	1:B8	2-K0
C833	1:M4	8-E2	IC300	1:E5	3-K0	L901	1:P6	9-F5	Q280	1:B7	2-L2
C834	1:M3	8-F1	IC300	1:E5	3-D3	L902	1:P6	9-G5	Q290	1:B7	2-M2
C836	1:M3	8-E0	IC330	1:E4	3-J3	L904	2:P8	9-D4	Q300	1:F8	3-D7
C837	1:M3	8-E0	IC330	1:E4	3-P1	L905	2:P7	9-E4	Q301	1:F7	3-J8
C838	1:N4	8-F0	IC330	1:E4	3-K3				Q302	1:E7	3-J7
C840	1:M2	8-K2	IC330	1:E4	3-M0	LINK1	1:B3	2-Q3	Q346	1:F3	3-G0
C842	1:N2	8-L0	IC330	1:E4	3-G3	LINK2	1:A4	2-Q2	Q400	1:N8	4-C4
C844	1:N3	8-L0	IC345	1:E5	3-D3				Q401	1:N7	4-D3
C846	1:N2	8-M0	IC351	1:E3	3-N0	M400	1:G8	4-L3	Q402	1:K8	4-G4
C848	1:N2	8-M0	IC351	1:E3	3-E1				Q403	1:K7	4-H3
C850	1:M2	8-N0	IC351	1:E3	3-G0	P100	1:P6	1-R8	Q500	1:J5	5-D6
C873	1:M3	8-N2	IC352	1:E3	3-H1	P160	1:P2	1-Q4	Q501	1:J5	5-E7
C876	1:M4	8-P2	IC352	1:E3	3-F1	P170	1:P2	1-R4	Q502	1:J5	5-F7
C879	1:M4	8-Q1	IC352	1:E3	3-M0	P201	1:C8	2-A9	Q503	1:K5	5-G7
C900	1:P7	9-E4	IC360	1:F8	3-Q8	P204	1:D4	2-A9	Q504	1:K5	5-J6
C901	1:P6	9-F4	IC610	1:M5	6-C6	P207	1:C5	2-A8	Q540	1:J6	5-E1
C902	1:P6	9-G4	IC630	1:N5	6-K5	P210	1:D5	2-C7	Q541	1:J5	5-E0
C903	1:P6	9-H4	IC640	1:M5	6-N5	P213	1:D3	2-A7	Q542	1:G5	5-J3
			IC640	1:M5	6-J0	P216	1:D4	2-A7	Q543	1:H6	5-J1
CV500	1:K5	5-L6	IC640	1:M5	6-G0	P219	1:D3	2-A7	Q544	1:G5	5-K3
			IC650	1:L5	6-C2	P222	1:B9	2-A6	Q545	1:G6	5-M3
%D111	1:P4	1-R1	=IC700	1:J3	7-A8	P225	1:C4	2-A4	Q546	1:G6	5-P3
%D111A	1:P5	1-Q1	IC710	1:H3	7-P7	P228	1:C4	2-A4	Q590	1:J6	5-C8
D220	1:C4	2-E4	IC710	1:H3	7-J0	P231	1:C9	2-A4	Q591	1:J6	5-C8
D220	1:C4	2-E4	IC710	1:H3	7-D7	P234	1:C4	2-A3	Q592	1:J6	5-C8
D230	1:C6	2-J5	IC710	1:H3	7-C6	P236	1:C8	2-A1	Q620	1:N6	6-P8
D230	1:C6	2-J5	IC710	1:H3	7-D6	P238	1:D8	2-A1	Q630	1:M6	6-P5
D240	1:C8	2-D2	IC710	1:H3	7-D6	P240	1:C7	2-G2	Q660	1:L5	6-N1
D240	1:C8	2-D3	IC710	1:H3	7-C6	P242	1:C4	2-G1	Q670	1:L6	6-P2
D250	1:B7	2-H1	IC740	1:H2	7-D1	P244	1:C4	2-G8	Q750	1:G4	7-G3
D260	1:B7	2-H1	IC750	1:H4	7-M3	P246	1:B5	2-H9	Q760	1:G3	7-J3
D270	1:B7	2-J1	IC750	1:H4	7-Q7	P248	1:A5	2-H9	Q770	1:H3	7-J1
D270	1:B7	2-J1	IC750	1:H4	7-H5	P249	1:A5	2-K9	Q775	1:H3	7-K3
D280	1:B7	2-K1	IC820	1:L4	8-N4	P250	1:B2	2-K9	Q780	1:H3	7-K3
D285	1:D2	2-L1	IC830	1:N4	8-F0	P252	1:B2	2-K9	Q785	1:H3	7-K2

Device	PCB	Circuit									
Q790	1:H3	7-L3	R288	1:B8	2-F1	R403	1:N7	4-D5	R629	1:M6	6-P6
Q795	1:G3	7-P0	R289	1:C4	2-G3	R404	1:N8	4-D4	R633	1:M5	6-Q8
Q810	1:K2	8-B6	R290	1:C4	2-H4	R407	1:M8	4-D4	R636	1:M5	6-K6
Q820	1:K2	8-B6	R292	1:C7	2-G2	R408	1:M8	4-E3	R637	1:N5	6-K5
Q840	1:K2	8-F5	R293	1:B7	2-H1	R409	1:N7	4-E3	R640	1:M5	6-G0
Q850	1:L2	8-G5	R294	1:B8	2-H0	R410	1:N7	4-E5	R641	1:N5	6-L4
Q860	1:K4	8-B4	R295	1:B6	2-J1	R411	1:M7	4-E3	R645	1:N5	6-L5
Q870	1:L4	8-C3	R296	1:B7	2-K1	R414	1:K7	4-F5	R649	1:M5	6-M5
Q880	1:L2	8-Q3	R297	1:B2	2-M0	R415	1:K8	4-G5	R653	1:M5	6-Q4
Q890	1:L4	8-H3	R298	1:B7	2-J0	R416	1:K8	4-G4	R681	1:L5	6-L2
Q895	1:M3	8-P2	R299	1:B7	2-J0	R417	1:K8	4-G4	R685	1:L5	6-N2
			R300	1:F8	3-D6	R418	1:K7	4-H5	R689	1:L6	6-Q3
R160	1:P2	1-Q4	R301	1:E9	3-E9	R421	1:J8	4-H5	R693	1:L5	6-P1
R201	1:C5	2-B8	R302	1:E8	3-E8	R422	1:J8	4-H4	R696	1:L6	6-P1
R202	1:C5	2-B7	R303	1:E8	3-E8	R423	1:J8	4-J3	R701	1:J4	7-A9
R204	1:C5	2-C9	R304	1:F7	3-G8	R424	1:J7	4-J4	R702	1:J4	7-B9
R205	1:C5	2-C8	R307	1:F7	3-H8	R425	1:J7	4-J3	R703	1:H4	7-B8
R207	1:C5	2-D8	R308	1:E7	3-H8	R428	1:G8	4-K5	R706	1:J3	7-C6
&R209	1:C4	2-D8	R309	1:E7	3-H7	R429	1:G8	4-K4	R707	1:J3	7-C7
R210	1:C5	2-D8	R310	1:E7	3-J7	R430	1:G8	4-L4	R708	1:J2	7-D7
R211	1:C5	2-E8	R311	1:F7	3-J9	R431	1:G8	4-L3	R709	1:J2	7-E7
R213	1:C5	2-G6	&R312	1:E7	3-J8	R500	1:J5	5-D8	R710	1:J3	7-B6
R215	1:B5	2-G9	R314	1:F7	3-J8	R501	1:J5	5-D7	R711	1:J3	7-C6
R218	1:C5	2-G8	R315	1:E6	3-L8	R502	1:J5	5-E6	R712	1:J3	7-P8
&R219	1:C5	2-G7	R316	1:E6	3-N7	R503	1:J5	5-F8	R730	1:J2	7-A2
R221	1:C5	2-H7	R344	1:E5	3-C3	R505	1:J5	5-G7	R731	1:J2	7-A2
R222	1:C5	2-H7	R345	1:E5	3-C3	&R506	1:J4	5-G8	R732	1:J2	7-A2
%R223	1:A5	2-J9	R347	1:F5	3-D4	&R507	1:J4	5-G8	R742	1:G2	7-C4
R224	1:B5	2-J8	&R349	1:E5	3-F4	R508	1:K5	5-H7	R743	1:H2	7-C4
R225	1:B5	2-J8	R350	1:E5	3-D3	R509	1:J5	5-H6	R744	1:G2	7-D4
R227	1:B5	2-J7	R351	1:F3	3-G0	R511	1:J5	5-F6	R746	1:H2	7-D4
R229	1:B6	2-L6	R352	1:F3	3-G1	&R516	1:J5	5-J6	R747	1:H3	7-D4
R230	1:C6	2-M5	R353	1:D3	3-G1	R517	1:J5	5-K6	R748	1:J2	7-A1
R232	1:B5	2-M7	R354	1:E3	3-H1	R518	1:J5	5-K5	R749	1:H2	7-B1
R233	1:B6	2-M7	R355	1:E5	3-E4	R520	1:K4	5-Q6	R750	1:H4	7-Q8
R234	1:B6	2-N7	R356	1:E3	3-F2	R540	1:J5	5-E0	R752	1:G4	7-F5
R236	1:B5	2-N7	R357	1:E3	3-E2	R541	1:J6	5-E3	R753	1:G4	7-F3
R238	1:C6	2-R6	R358	1:E3	3-H0	R542	1:H6	5-E3	R754	1:G3	7-F3
R239	1:C6	2-R7	R359	1:E3	3-F2	R543	1:J6	5-E2	R756	1:G3	7-G5
R241	1:D4	2-G5	R362	1:D3	3-F1	R544	1:J5	5-E1	R757	1:G4	7-H4
R242	1:C4	2-G4	R363	1:F5	3-G3	R545	1:J5	5-E0	R758	1:H3	7-J4
R244	1:C4	2-G4	R364	1:F4	3-G3	R546	1:H6	5-E1	R759	1:H3	7-J4
R245	1:C4	2-H5	R365	1:D3	3-G2	R547	1:J6	5-E2	R760	1:H3	7-K4
R247	1:C7	2-J5	R366	1:F3	3-D1	R548	1:J6	5-E2	R762	1:H3	7-K4
R249	1:C6	2-J4	R367	1:F3	3-D1	R549	1:J5	5-E1	R763	1:H3	7-L4
R251	1:B7	2-L3	R368	1:F4	3-H3	R550	1:J5	5-E0	R765	1:H3	7-J2
R252	1:C6	2-L3	R369	1:F3	3-E0	R554	1:H5	5-F3	R766	1:G3	7-J3
R254	1:B7	2-L3	R370	1:F3	3-E0	R556	1:J6	5-F2	R767	1:H3	7-K2
R255	1:B7	2-L3	R371	1:F3	3-E0	R557	1:H5	5-G2	R769	1:H3	7-K3
R256	1:C6	2-M3	R372	1:F4	3-H3	R558	1:H6	5-G2	R771	1:H4	7-L3
R258	1:C7	2-M3	R373	1:E3	3-E1	R559	1:H6	5-G2	R772	1:G3	7-L2
R260	1:C7	2-P2	R374	1:F4	3-K5	R560	1:G5	5-H4	R774	1:H3	7-L2
R261	1:C7	2-P3	R375	1:F4	3-K5	R561	1:G5	5-J4	R775	1:H3	7-M2
R262	1:B4	2-P3	R376	1:E3	3-J1	R562	1:G5	5-J2	R784	1:G3	7-P1
%R263	1:C4	2-Q3	R377	1:E4	3-G4	R563	1:G5	5-K2	R785	1:G3	7-P1
R264	1:B8	2-B3	R378	1:E3	3-J1	R564	1:G5	5-K4	R786	1:G3	7-Q1
R265	1:B8	2-B2	R379	1:F3	3-J3	R571	1:G5	5-L4	R787	1:G3	7-Q1
R266	1:B8	2-B2	R380	1:F3	3-J3	R572	1:H6	5-M2	R790	1:G3	7-P0
R267	1:C8	2-C3	R381	1:F3	3-J3	R573	1:H6	5-M2	R791	1:G4	7-P0
%R268	1:C3	2-Q2	R382	1:E3	3-H4	R574	1:H6	5-M2	R793	1:G3	7-P0
R269	1:C8	2-B1	R384	1:E3	3-K4	R575	1:G5	5-M4	R794	1:G3	7-P1
R271	1:D8	2-A0	R385	1:E4	3-K3	R576	1:G5	5-M2	R804	1:J3	8-B7
R272	1:D8	2-B1	R387	1:E4	3-M3	R577	1:G6	5-P2	R805	1:J3	8-B7
R273	1:D8	2-C1	R388	1:E4	3-M4	R578	1:G5	5-P4	R808	1:K2	8-A6
R274	1:B3	2-P3	R389	1:E4	3-M4	R579	1:G6	5-P2	R809	1:K2	8-B6
R275	1:D8	2-C1	%R390	1:D5	3-M2	R580	1:H6	5-N2	R810	1:L2	8-C6
R276	1:B3	2-Q3	R391	1:D5	3-M2	R585	1:G6	5-P4	R811	1:L2	8-C6
R277	1:D8	2-C0	R392	1:F3	3-D2	R586	1:G6	5-P2	R812	1:K2	8-B6
R278	1:D8	2-D1	R393	1:F3	3-D1	R590	1:J6	5-B8	R813	1:K2	8-B5
R279	1:B3	2-Q2	R394	1:F3	3-D1	R591	1:J6	5-C8	R815	1:K2	8-F4
R280	1:C8	2-D3	R395	1:F3	3-D1	R592	1:J6	5-C7	R816	1:K2	8-F4
R281	1:C8	2-D2	R396	1:E3	3-H1	R615	1:M5	6-B6	R818	1:K2	8-G5
R282	1:C8	2-E2	R397	1:E3	3-H1	R617	1:M5	6-D5	R819	1:L2	8-G4
R284	1:C8	2-F3	R400	1:N8	4-C4	R619	1:N6	6-L8	R820	1:K4	8-B4
R285	1:B8	2-F2	R401	1:N8	4-C4	R621	1:N6	6-L8	R821	1:L4	8-B4
R287	1:C8	2-F2	R402	1:N8	4-C4	R625	1:N6	6-L7	R822	1:L4	8-C3

<u>Device</u>	<u>PCB</u>	<u>Circuit</u>									
R823	1:L4	8-D3	RV345	1:F3	3-E0						
R824	1:K4	8-L8	RV346	1:F3	3-J3						
R825	1:K4	8-L8									
R826	1:K4	8-L8	SHLD610	1:L6	6-J3						
R827	1:K4	8-L7									
R828	1:K4	8-L7	SK805	1:K3	8-Q9						
R829	1:K4	8-Q9	SK805	1:K3	8-Q6						
R830	1:K3	8-Q9	SK805	1:K3	8-Q9						
R831	1:K3	8-Q9	SK805	1:K3	8-Q7						
R832	1:K3	8-Q8	SK805	1:K3	8-Q6						
R833	1:K3	8-Q8	SK805	1:K3	8-Q9						
R835	1:K3	8-Q8	SK805	1:K3	8-Q7						
R836	1:K3	8-Q8	SK805	1:K3	8-Q8						
R837	1:K3	8-Q7	SK805	1:K3	8-Q6						
R838	1:L4	8-K6	SK805	1:K3	8-Q8						
R839	1:L4	8-L6	SK805	1:K3	8-Q6						
R840	1:K3	8-Q7	SK805	1:K3	8-Q8						
R841	1:K3	8-Q7	SK805	1:K3	8-Q7						
R842	1:K3	8-Q6	SK805	1:K3	8-Q8						
R843	1:K3	8-Q6	SK805	1:K3	8-Q7						
R844	1:L2	8-R3	SK805	1:K3	8-Q5						
R845	1:L2	8-R3	SK810	1:L3	8-H5						
R846	1:L4	8-L6									
R847	1:L4	8-L6	SL210	1:C8	2-E2						
R848	1:L4	8-R5	SL220	1:C8	2-D2						
R852	1:L2	8-G6									
R853	1:L2	8-F6	SW201	1:B4	2-A6						
R854	1:N3	8-C2									
R855	1:N3	8-C1	T210	1:C3	2-Q2						
R856	1:N3	8-C1	T540	1:G6	5-P2						
R857	1:N4	8-D1	T610	1:L6	6-N2						
R858	1:N3	8-C0									
R859	1:N3	8-D0	&TL500	1:K6	5-K6						
R860	1:N3	8-D0									
R861	1:M3	8-D0	TP202	1:C8	2-D9						
R863	1:N3	8-D1	TP211	1:D3	2-P8						
R865	1:M3	8-E2	TP300	1:F8	3-C8						
R866	1:M3	8-F1	TP301	1:E8	3-E7						
R867	1:M3	8-F2	TP345	1:E4	3-M4						
R868	1:N4	8-E0	TP400	1:G8	4-M4						
R869	1:M3	8-E0	TP401	2:G6	4-M5						
R870	1:M3	8-E0	TP601	1:N5	6-K9						
R871	1:N3	8-F0	TP602	1:L5	6-R9						
R872	1:N4	8-F0	TP603	1:L5	6-J2						
R873	1:N4	8-G0	TP604	1:L4	6-N6						
R875	1:M4	8-F2	TP607	1:M4	6-E6						
R876	1:M3	8-K1	TP710	1:G4	7-J5						
R877	1:M2	8-K1									
R878	1:M2	8-K0	X300	1:E6	3-M7						
R879	1:M2	8-K0									
R881	1:L4	8-H3	&XF300A	1:E8	3-F7						
R882	1:M4	8-H3	&XF300B	1:E8	3-G7						
R884	1:M3	8-N3	&XF302	1:E6	3-L8						
R885	1:M3	8-N2									
R886	1:M3	8-P3									
R887	1:M3	8-P3									
R888	1:M3	8-P2									
R889	1:M3	8-N1									
R890	1:M3	8-P1									
R891	1:M2	8-P1									
R892	1:M2	8-P0									
R894	1:M2	8-Q1									
R895	1:M2	8-Q1									
R897	1:M2	8-Q2									
R898	1:M2	8-Q2									
R900	1:P6	9-H4									
RL210	1:C2	2-Q4									
RL210	1:C2	2-K1									
RL210	1:C2	2-Q5									
RV205	1:B5	2-M7									
RV210	1:B7	2-K3									
RV220	1:D4	2-G5									
RV230	1:B8	2-B2									
RV235	1:D9	2-C0									



T885 PCB Layout - Bottom Side
220-01595-02



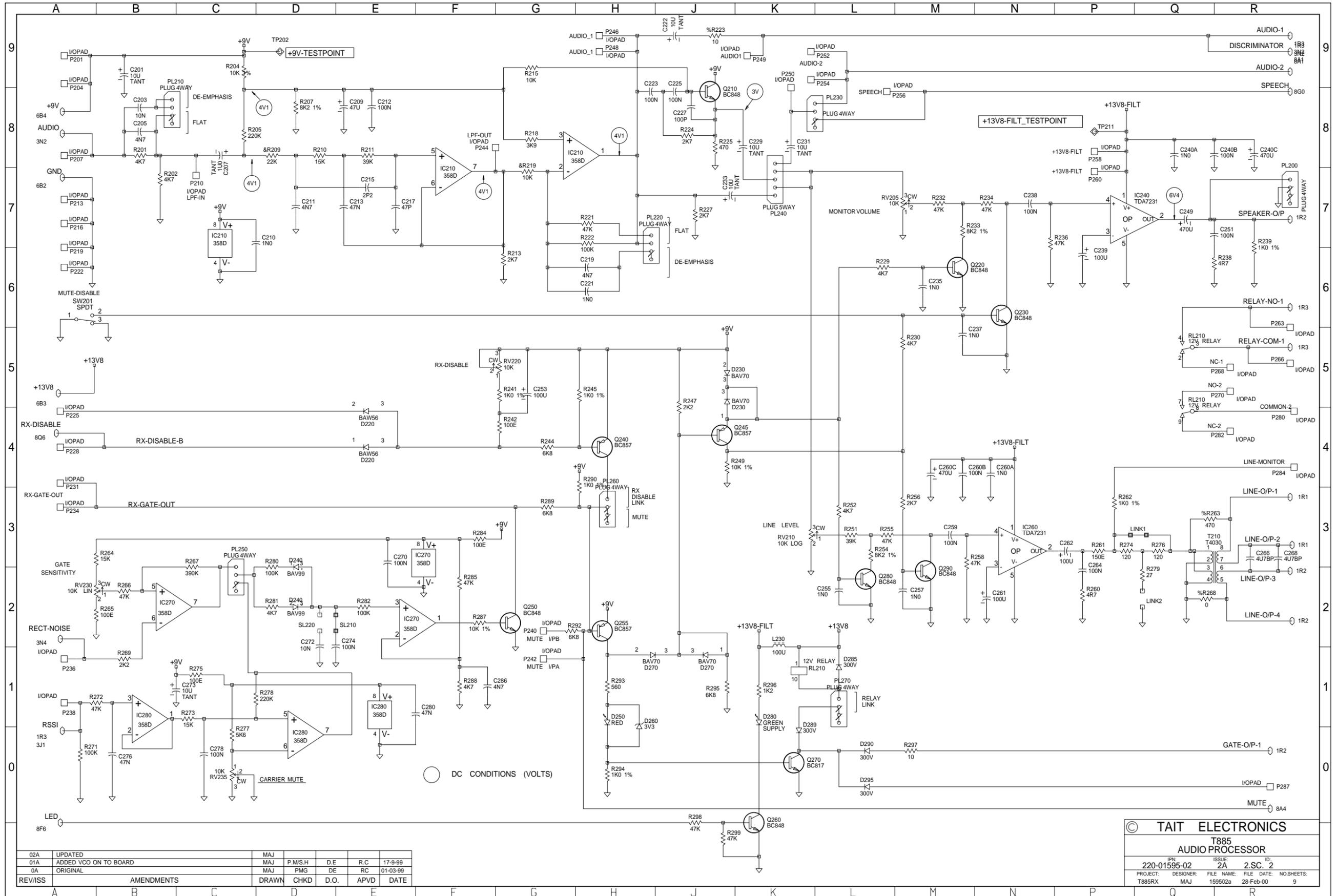
PL100
15 WAY R-ANGLE DRANGE PLUG

THOLE HOLE
 TSL0T SLOt
 TOPFIDA FIDUCIAL
 TOPFIDB FIDUCIAL

PRODUCT INDICATORS								
-10	-13	-15	-20	-23	-25	-	-	-
T88510 2K2	T88513 2K2	T88515 2K2	T88520 2K2	T88523 2K2	T88525 2K2	T885- 2K2	T885- 2K2	T885- 2K2

DGND & GND ARE CONNECTED THROUGH R617 ON SHEET 6

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T885 RECEIVER			
IPN: 220-01595-02	ISSUE: 2A	2.S.C. 1	ID:
PROJECT: T885RX	DESIGNER: MAJ	FILE NAME: 159502a	FILE DATE: 28-Feb-00
REV/ISS	AMENDMENTS	DRAWN	CHKD
02A	UPDATED	MAJ	P.M/S.H
01A	ADDED VCO ON TO BOARD	MAJ	P.MG
0A	ORIGINAL	MAJ	P.MG
		D.O.	APVD
			DATE
			17-9-99
			01-03-99



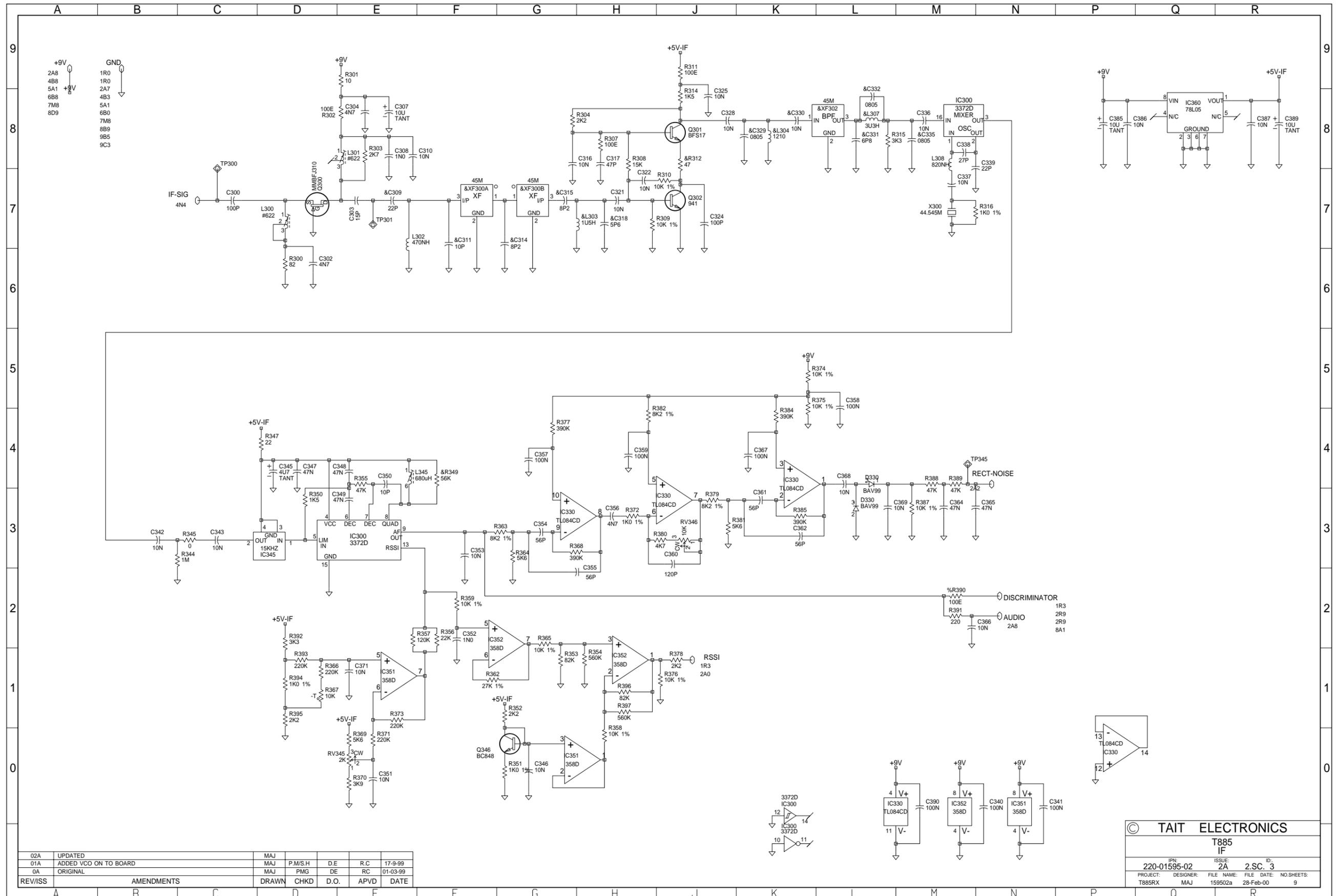
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Q1A	ADDED VCO ON TO BOARD	MAJ	P.M/S.H	D.E	R.C	17-9-99
Q0A	ORIGINAL	MAJ	PMG	DE	RC	01-03-99
REV/ISS	AMENDMENTS	DRAWN	CHKD	D.O.	APVD	DATE

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T885
AUDIO PROCESSOR

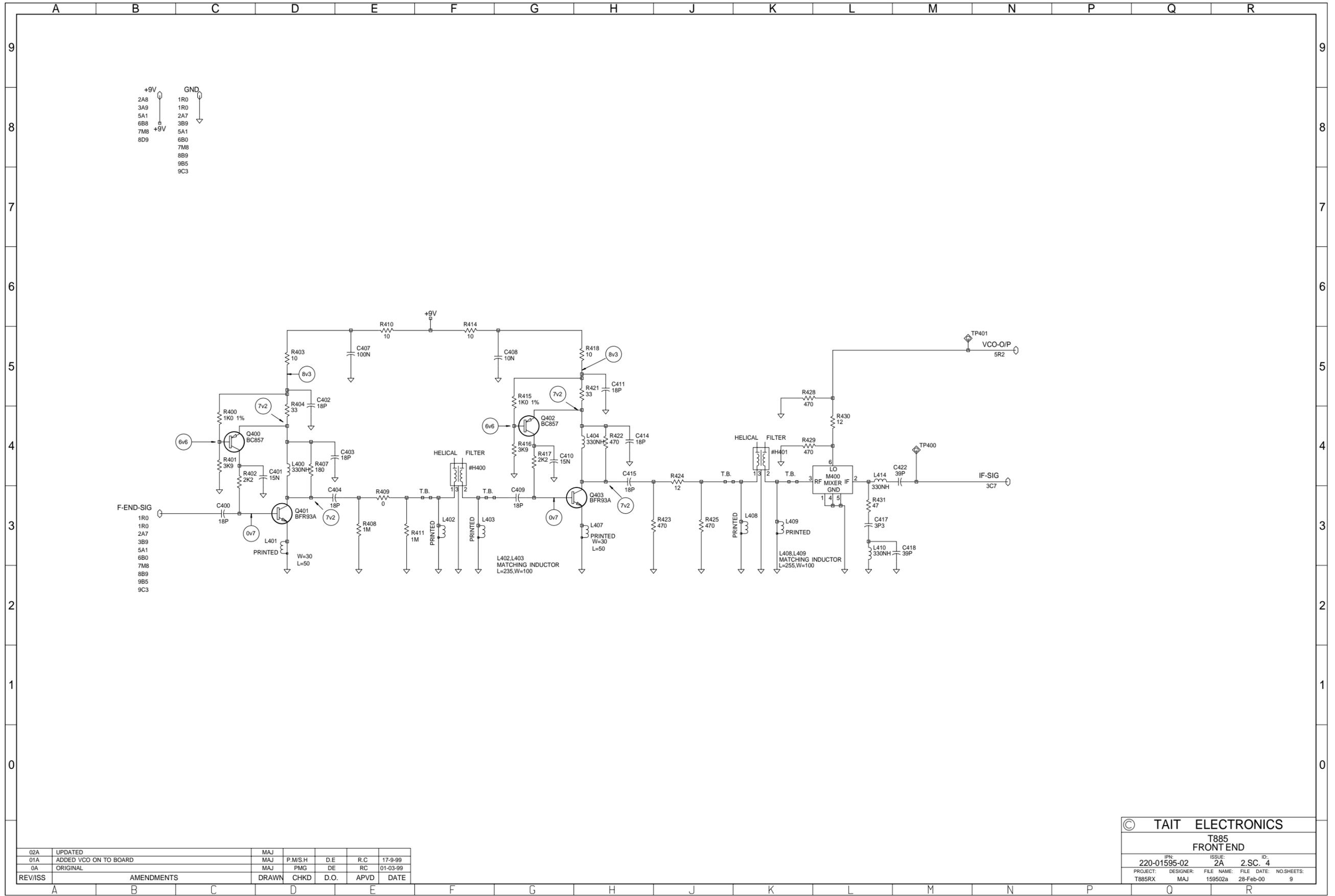
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ISSUE: 2A
ID: 2.S.C. 2

PROJECT: T885RX
DESIGNER: MAJ
FILE NAME: 159502a
FILE DATE: 28-Feb-00
NO. SHEETS: 9



02A	UPDATED	MAJ				
01A	ADDED VCO ON TO BOARD	MAJ	P.M/S.H	D.E	R.C	17-9-99
0A	ORIGINAL	MAJ	PMG	DE	RC	01-03-99
REV/ISS	AMENDMENTS	DRAWN	CHKD	D.O.	APVD	DATE

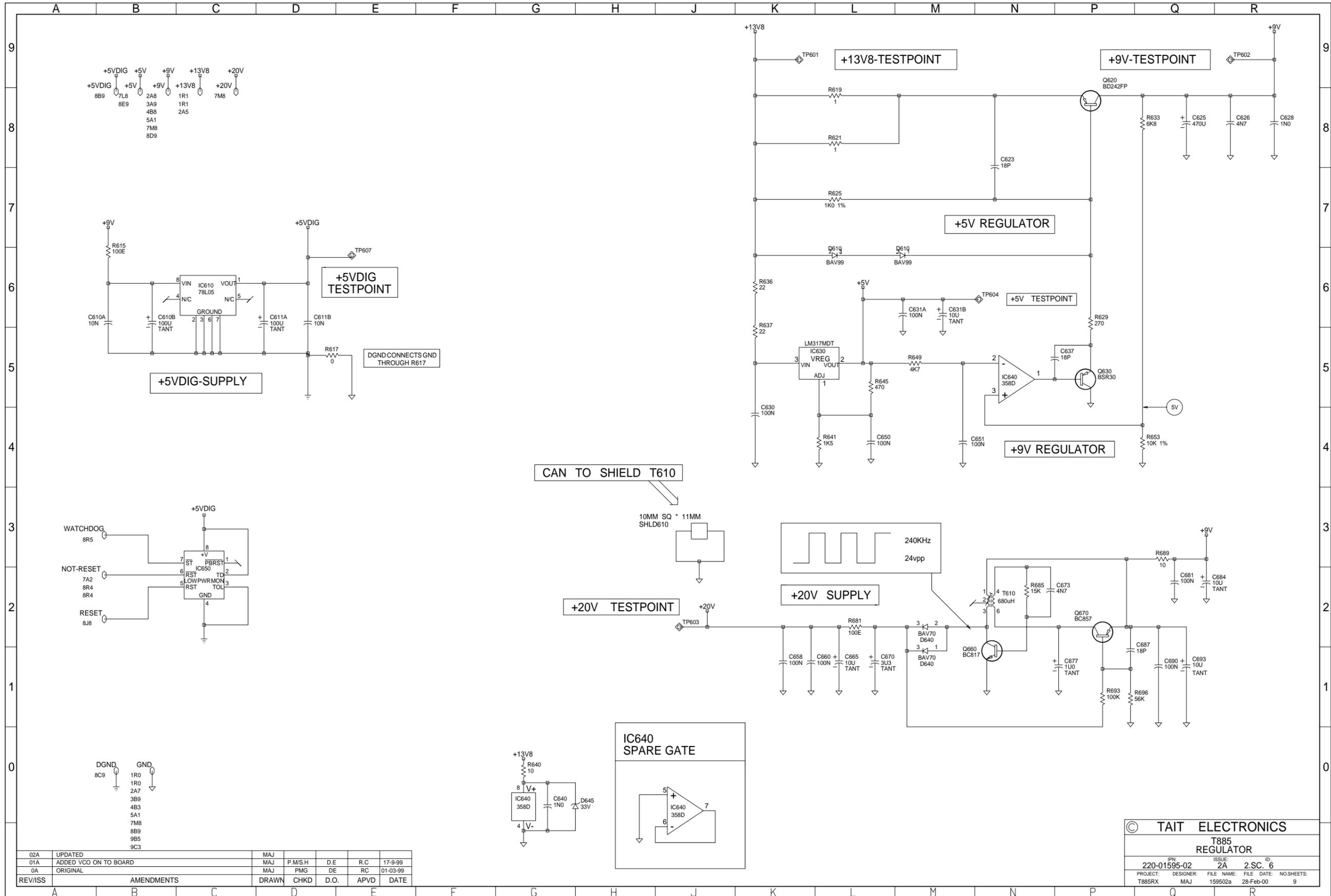
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T885 IF			
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PROJECT:	DESIGNER:	FILE NAME:	FILE DATE:
T885RX	MAJ	159502a	28-Feb-00
			NO.SHEETS: 9

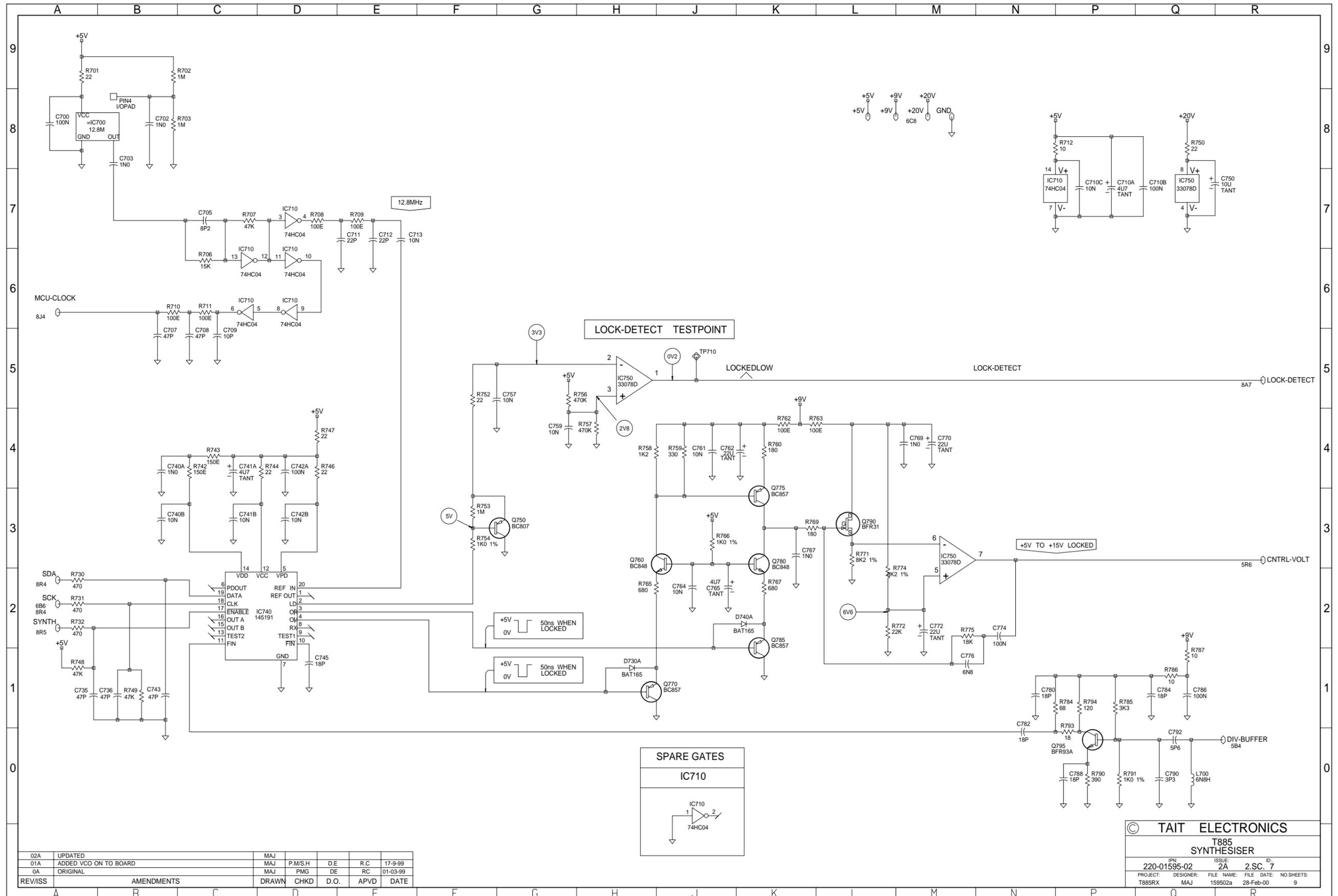


- | | |
|-----|-----|
| +9V | GND |
| 2A8 | 1R0 |
| 3A9 | 1R0 |
| 5A1 | 2A7 |
| 6B8 | 3B9 |
| 7M8 | 5A1 |
| 8D9 | 6B0 |
| | 7M8 |
| | 8B9 |
| | 9B5 |
| | 9C3 |

02A	UPDATED	MAJ				
01A	ADDED VCO ON TO BOARD	MAJ	P.M/S.H	D.E	R.C	17-9-99
0A	ORIGINAL	MAJ	PMG	DE	RC	01-03-99
REV/ISS	AMENDMENTS	DRAWN	CHKD	D.O.	APVD	DATE

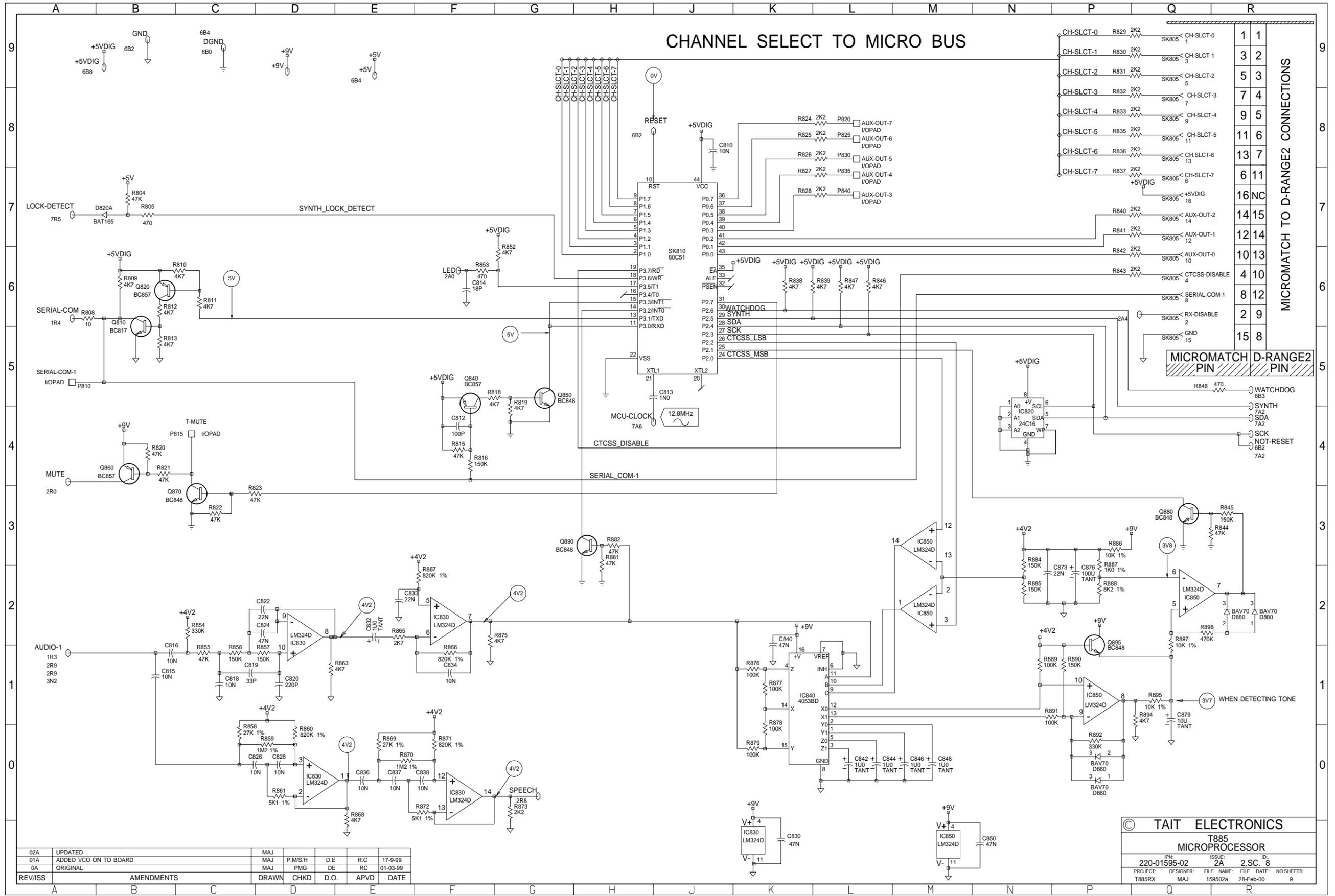
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T885 FRONT END					
IPN	ISSUE	ID			
220-01595-02	2A	2.SC. 4			
PROJECT:	DESIGNER:	FILE NAME:	FILE DATE:	NO.SHEETS:	
T885RX	MAJ	159502a	28-Feb-00	9	





02A	UPDATED	MAJ				
01A	ADDED VCO ON TO BOARD	MAJ	P.M/S/H	D.E	R.C	17-9-99
0A	ORIGINAL	MAJ	PMG	DE	RC	01-03-99
REV/ISS	AMENDMENTS	DRAWN	CHKD	D.O.	APVD	DATE

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T885 SYNTHESISER			
IPN:	ISSUE:	2A	ID: 7
PROJECT:	DESIGNER:	FILE NAME:	FILE DATE:
T885RX	MAJ	159502a	28-Feb-00
NO SHEETS:		9	



REV/ISS	AMENDMENTS	DRAWN	CHKD	D.O.	APVD	DATE
02A	UPDATED	MAJ	P.M/S.H	D.E	R.C	17-9-99
01A	ADDED VCO ON TO BOARD	MAJ	PMG	DE	RC	01-03-99
0A	ORIGINAL	MAJ	PMG	DE	RC	01-03-99

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T885
MICROPROCESSOR

IPN: 220-01595-02
ISSUE: 2A
ID: 2.S.C. 8

PROJECT: T885RX
DESIGNER: MAJ
FILE NAME: 159502a
FILE DATE: 28-Feb-00
NO.SHEETS: 9

