

GRUNDIG SERVICE MANUAL



Service
Manual

Sach-Nr./Part No.
72010-019.10

Additionally
required Service
Manuals for the
Complete Service:

Service
Manual

Sicherheit
Safety

Sach-Nr./Part No.
72010-800.00

ⓓ Btx * 32700 #

Chassis G 1000 Stereo (ST 03)

MATSUI 21N1

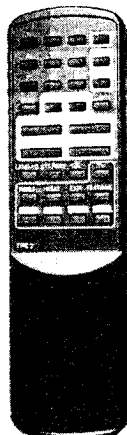
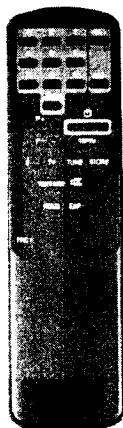
GT 2005
GT 2105

(77250-056.61/GCC 1261GB)
(77250-055.61/GCC 1361GB)

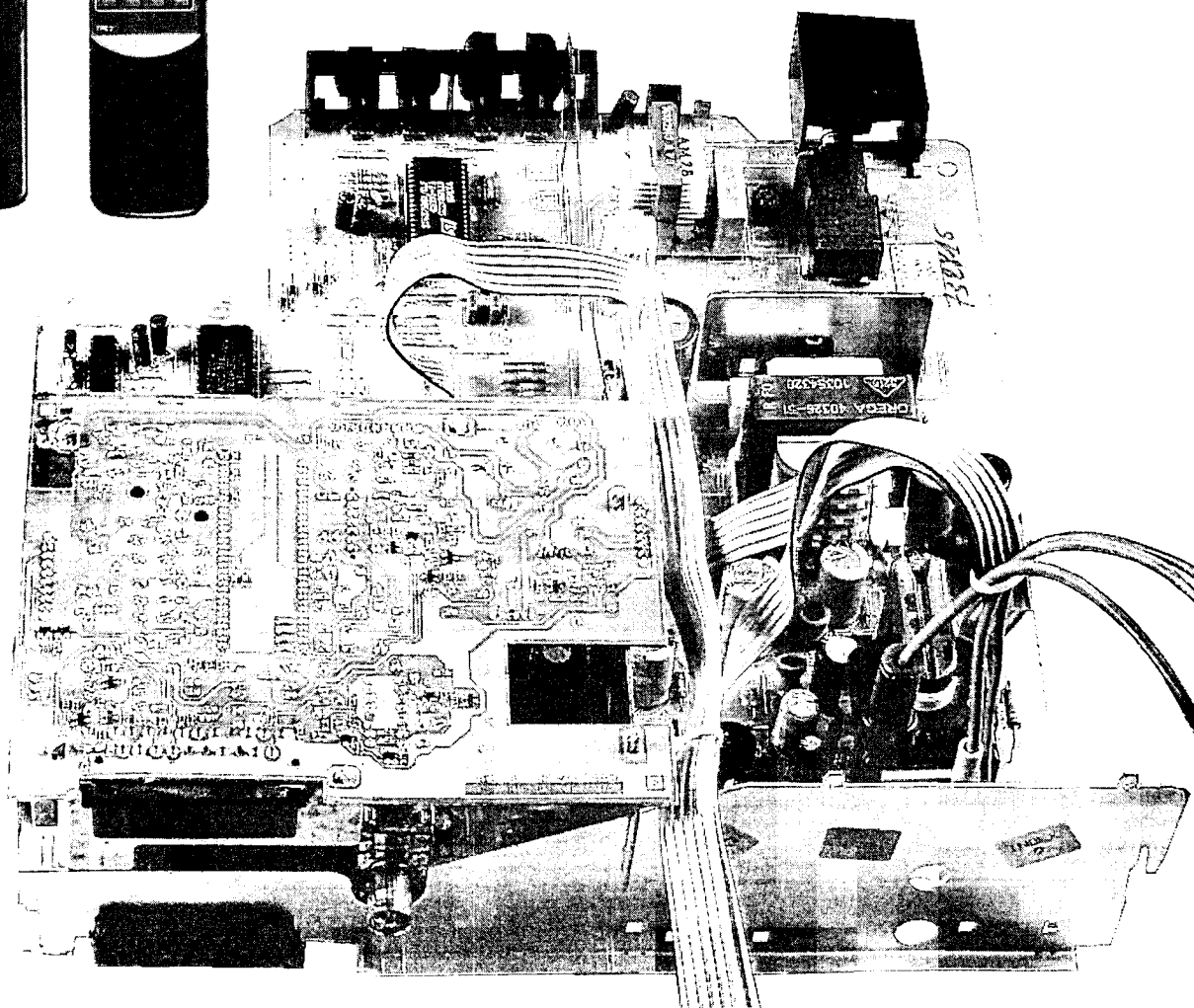
TRC 1
TRC 2

(75990-200.14)
(75990-300.00)

**Attention: The picture tube panel must be removed
before disconnecting the yoke plug**



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Oxon OX9 4QY
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The regulations and safety instructions shall be valid as provided by the "Safety" Service Manual, part number 72010-800.00, as well as the respective national deviations.

Safety Advice

The X-radiation developing in the sets conforms to the X-radiation Regulations (January 8, 1987), issued by the Physikalisch-Technische Bundesanstalt (federal physio-technical institution).

The high tension for the picture tube and thus the developing X-radiation depends on the precise adjustment of the +A power supply.

After every repair of the power supply unit or the horizontal deflection stage it is imperative that the EHT for the picture tube is checked and re-adjusted if necessary.

To avoid consequential damages to the chassis or the picture tube the integrated protective circuits are allowed to be put out of operation only for a short time.

When replacing the picture tube use only the types specified in the spare parts lists.

General Part

Test Equipment / Aids

Variable isolating transformer	Test/Sweep Generator
Colour Generator	Oscilloscope
DC Voltmeter	AF Voltmeter
AF Generator	Frequency counter

Please note the Grundig Catalog "Test and Measuring Equipment" obtainable from:

Grundig electronics GmbH
Würzburger Str. 150
D-90766 Fürth/Bay.
Tel.0911/703-0
Telefax 0911/703-4479

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Technical Data

TV Receivers	20" / 21"
Mains voltage	220...240V ~ 50/60Hz

Control range of the power supply	190...264V
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Screen diagonal	51cm / 55cm
Picture diagonal	48cm / 52cm

Power consumption	ca. 55W
Power consumption in Standby	ca. 8W

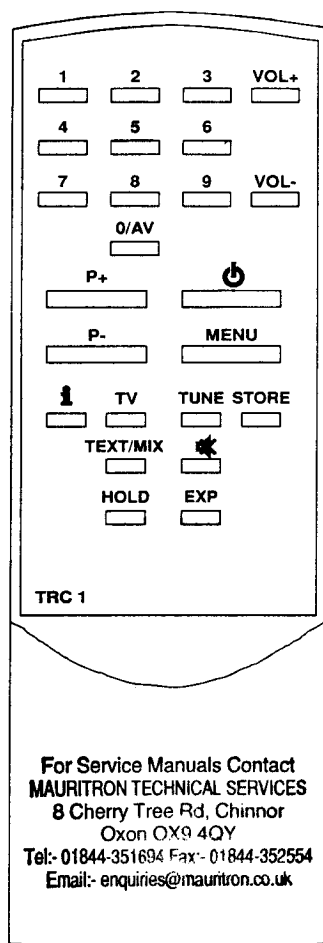
Aerial socket	75 Ω coaxial plug
Programmes	99 + 2AV
Standard	PAL/I

Output power	2x5W RMS
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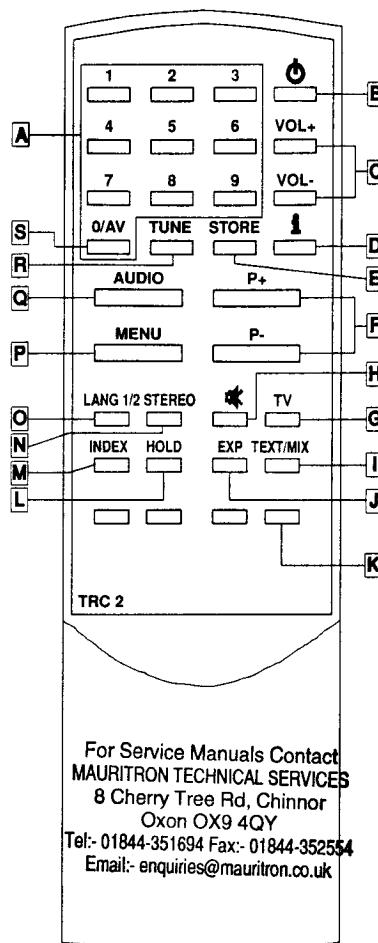
Temperature range	0 - 40° C
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Remote Control TRC 1



Remote Control TRC 2



Operation of the Remote Control Keys

	Switches the receiver on and off (Standby)
1-0	Direct channel selection and direct entry of adjustable settings. Turns television on from Standby.
P+	Selects channel above current channel. Increases adjustable menu settings.
P-	Selects channel below current channel. Decreases adjustable menu settings.
VOL+	Increases Volume
VOL-	Decreases Volume
i	Displays selected channel number. Accesses hidden information.
MENU	Accesses Menu
STORE	Stores channels in tuning mode
TUNE	Selects tuning mode
	Mutes sound
HOLD	Holds a particular page in the Teletext mode
EXP	Changes height of characters in the Teletext mode
TEXT/MIX	Selects teletext/selects mixed mode (text on picture)
TV	Returns to normal viewing mode
0/AV	Selects auxiliary mode

Operation of the Remote Control Keys

A	Direct channel selection or page number in teletext mode. Switches the television on from standby.
B	Switches set to standby or switches set on from standby
C	Increases and decreases the volume
D	Displays the selected channel
E	Stores channels in tuning mode
F	Increases or decreases adjustable settings
G	Returns to normal viewing mode
H	Mutes sound
I	Selects teletext/selects mixed mode (text on picture)
J	Changes height of characters in teletext mode
K	Fasttext buttons
L	Holds a selected page in teletext mode
M	Selects index pages in teletext mode
N	Selects between stereo, stereo-wide and pseudo-stereo
O	Selects language in dual language Nicam transmissions. Selects mono sounds.
P	Accesses menu
Q	Accesses audio selections
R	Selects tuning mode
S	Selects auxiliary input

Brief Service Instructions

Tuning

Press the "Tune" key on the remote control to bring up the tuning graphic "S". Press and hold the "P+" key for more than 1 second to start the search tuning. When a channel is found the "S" graphic will flash. Either select "P+" to continue tuning or "Store" to retain the channel. By pressing the "Store" key the programme number will flash, key in the programme number that the channel is to be store in. To exit the tuning screen press TV.

Fine Tuning

Press the "Tune" button and then the "HOLD" key briefly to bring up the fine tuning graphic. An X will appear after the channel number. Use the "P+" and "P-" keys to fine tune and then "Store".

Scart Menu

Press the "0/AV" button and then the "Tune" key the Scart options graphic will appear, with VCR, DECoder and AUX. In the VCR mode only, the line time base time constant is short. In Decoder mode Pin 8 of the Scart is enabled whilst tuning to allow for tuning of decoded channels.

Fasttext Operation

In addition to the standard Teletext functions, the receiver GT 2105 has Fasttext. This system provides more value from Teletext by allowing fast access to highlighted pages and by linking many related pages for easy access.

The key to Fasttext is four colour coded prompts at the bottom of each teletext page. These red, green, yellow and blue prompts relate to the four colour coded buttons on the tv remote control.

Each colour coded prompt acts as a "signpost" through the huge choice of Teletext pages available, allowing faster and easier access to highlighted pages.

Use of Fasttext

To select any colour coded page from Teletext press the corresponding coloured button on the TV remote control.

The new page selected will appear almost instantly although there can still be a delay for some pages to appear. This is particularly the case if a rapid succession of coloured Fasttext buttons are pressed.

As new pages are accessed, at the bottom of the page a new series of subject related colour coded prompts will appear.

Fasttext Index Function

To return any time to the main index pages it is not necessary to enter the index page number.

INDEX To return to the main index press the INDEX button once.

INDEX With the main index on screen a further press of the INDEX button will access the main A - Z index or other subsidiary index pages.

Returning to Normal Television Viewing

TV To return to normal television viewing at any time, press the TV button.

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Operating Hints GT 2005 / 2105

Note: This chapter contains excerpts from the operating instructions. For further particulars please refer to the appropriate user instructions in the relevant spare parts list.

TUNING IN

TUNING

Your TV set can memorise 99 different channels. During channel tuning any connected satellite receiver or video recorder should be switched to standby. To tune in different channels, follow the instructions below.

Step 1

Press **TUNE** on the remote control.



A tuning bar will appear.



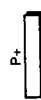
Step 2

Press **P+** for approximately one second.



The set will scan up through the available channel frequencies. A cursor moves slowly up the bar until a channel is found. The **S** will now flash on and off.

'S'



If you do not wish to store the channel, press **P+** again until a required channel is found.

Step 3

Press **STORE** to memorise the channel.



The programme setting **PO1** will now flash on and off.

Step 4

Decide which channel number you want to allocate the channel to e.g. BBC1 = 1. Press the appropriate number e.g. **1**.



Step 5

Store the setting by pressing **STORE**.



The channel is now stored against the chosen channel number. The tuning bar will still be on screen and the **S** will still flash.

Now tune the remaining channels. Repeat steps 2, 3, 4 and 5 until all channels are tuned in.

To exit the tuning screen press **TV**.



FINE TUNING

After following the **TUNING** instructions you should have a clear picture on all channels (subject obviously to the reception quality of the incoming signal). If any channels are not to the standard you would expect, fine tuning may sometimes improve the picture quality. To fine tune follow the steps below:

Step 1

Select the channel to be tuned. If the tuning bar is no longer on screen press **TUNE**. If it is, move onto step 2.



Step 2

Press **HOLD** very briefly. An **X** will appear besides the programme number to indicate that fine tuning has been selected.



Step 3

By briefly pressing **P+** or **P-**, fine tune the picture.



Step 4

When the best possible picture has been achieved, press **STORE** twice to memorise the settings.



Step 5

To return to normal television viewing press **TV**.



Note: the **X** symbol means that the Automatic Frequency Control (AFC) has been switched off. Channels stored with the **X** displayed may drift off tune and therefore fine tuning should only be used if absolutely necessary.

TUNING INTO A VIDEO RECORDER, SATELLITE RECEIVER OR GAMES CONSOLE

If connecting a video recorder, satellite receiver or games console to the television set via the scart sockets (see page 3 and 14), press **O/AV** on the remote control. Alternate presses of **O/AV** selects between the AV inputs, AV1 and AV2.



If making the connection via the television sets aerial, select channel 99 as the dedicated channel by pressing **9** twice.



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With the video recorder, satellite receiver or games console on, tune channel 99 to the output following steps **1-5** in the **TUNING IN SECTION** on pages 4 to 5.

When using the O/AV mode the on screen display can be adjusted to indicate whether a video recorder, external decoder or auxiliary source (e.g. a games console or satellite receiver) is connected. Follow the steps below selecting first either AV1 or AV2 input as required.

Step 1
Press **O/AV** on the remote control.



Step 2
Press **TUNE** on the remote control. The display will show 3 options;



DEC (decoder)

AUX (satellite receiver or games console).

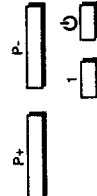
Step 3
Further pressing of **TUNE** allows the desired symbol **TUNE** to be highlighted in yellow. When the required symbol is highlighted the setting will automatically store after five seconds.



STANDBY AND CHANNEL CONFIRMATION

STANDBY MODE

When the television is in standby it can be switched on by pressing either **P+** or **P-** or by pressing the channel number required, e.g. **1** for BBC 1. Alternatively press **STANDBY**.



CONFIRMATION OF CHANNEL SELECTED

Whenever a new channel is selected the top left hand corner of the screen will confirm the channel number selected for approximately 5 seconds.

To confirm or check the channel being watched without changing channel, press **i**. The channel number selected will be displayed in the top left hand corner of the screen for approximately 5 seconds.



Note : Pressing **i** will confirm the channel details at the bottom of the screen.



PICTURE ADJUSTMENT

Your Grundig television set allows control of brightness, contrast and colour. To make any picture adjustments follow this procedure :

BRIGHTNESS CONTRAST AND COLOUR

Step 1
Press **MENU**.



The brightness symbol will be displayed with a cursor which indicates the current brightness setting.



Step 2

With the cursor on screen adjust the brightness by using **P+** or **P-**. The cursor moves to indicate the change. The new setting is automatically stored.



Step 3

To change the other settings, with the brightness control on screen, press **MENU**. The brightness symbol before the cursor will change to the contrast setting.



Step 4

Adjust the contrast by using **P+** or **P-**.



Step 5

With the contrast setting on screen press **MENU** again.



The contrast symbol before the cursor will change to the colour setting.



Step 6

Adjust the colour setting to your liking by using **P+** and **P-**.



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The cursor will move to indicate the change.



To return to normal viewing press **TV**.



AUDIO ADJUSTMENT

VOLUME CHANGE AND MUTE

To increase the volume press **VOL+**.

To decrease the volume press **VOL-**.

To mute the sound, press **M**.

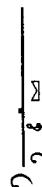
To restore the sound when muted press **M** again.

BASS, TREBLE AND BALANCE ADJUSTMENT

To make the most of high quality NICAM stereo transmissions you can alter the bass, treble and balance to your preference. Follow these steps:

Step 1

Press **AUDIO** until the audio selection screen is displayed. The bass symbol **B** will be displayed with a cursor which indicates the current bass level selected.



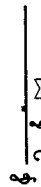
Step 2

With the cursor on screen adjust the bass level using **P+** or **P-**. The cursor moves to indicate the change.



Step 3

To change the treble level with the audio selection screen displayed press **AUDIO** until the treble symbol **T** is displayed.



Step 4

With the cursor on screen adjust the treble level using **P+** or **P-**.



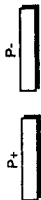
Step 5

To change the balance with the audio selection screen displayed press **AUDIO** until the balance symbol **B** is displayed.



Step 6

With cursor on screen alter the balance in favour of the left or right TV speaker with **P+** or **P-**.



Note: If no further buttons are pressed the audio selection screen will disappear within 5 seconds and any changes made will be stored.

STEREO WIDE SELECTION

Your Grundig NICAM stereo television allows you to enhance the stereo effect from stereo transmissions by selecting Stereo Wide. To select Stereo Wide follow these steps:

Step 1

Press **STEREO**. Either (stereo) or (stereo wide) symbols will appear.



Step 2

Repeated presses of **STEREO** will alternate between stereo and stereo wide allowing the selection of whichever is preferred. Once the required stereo selection is made the on screen symbol will disappear after 5 seconds and the selection will be stored.



PSEUDO STEREO SELECTION

If the transmission is not in stereo no symbol will be displayed. It is possible to give the mono sound a stereo like sound by following the steps in stereo wide selection above.

Either (mono) or (pseudo stereo) can be selected.

MONO SOUND SELECTION

On the edge of a NICAM stereo transmission area the stereo sound may be intermittent, resulting in poor sound quality, popping and clicking noises. If this is the case the programme can be listened to in mono instead of stereo, by pressing **LANG 1/2**. The symbol will indicate that mono sound has been selected. A second press will restore the stereo symbol and stereo sound.



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MULTI LANGUAGE OPERATION

In the future some television programmes may be transmitted with a choice of language selections.

Your Grundig television is ready for this development.

If programmes are transmitted in this way, pressing **LANG 1/2** will alternatively select between the dual language audio soundtracks which will be in mono.



SETTING THE SLEEP TIMER

Should you fall asleep whilst watching television, or leave the television set on unattended, your Grundig Television set will automatically switch into standby 10 minutes after the end of transmissions.

You can however, programme the television to switch into standby between 1 minute and 90 minutes ahead.

This ensures that should you fall asleep before the end of a programme, the television set will automatically switch off, instead of remaining on until the end of the last programme of the day. To activate the sleep timer follow these steps:

Step 1



Press **MENU** until the timer off symbol is displayed.

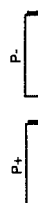
Step 2



Press either **P+** or **P-**. The timer on symbol will be displayed along with the time in minutes until the automatic switch off will be activated.



Step 3



Press **P+** or **P-** to set the time in minutes until the television set will switch off.



Pressing **P+** will increase the minutes from 1-90.



Pressing **P-** will decrease the minutes from 90-1.



When the correct advanced switch off time is selected, if no further buttons are pressed the set will revert to normal viewing and automatically switch off after the pre-determined time. To ensure that the timer will not activate alter the switch off time to zero.



ADDITIONAL INFORMATION

CARE OF YOUR SET

Use only a soft cloth to clean your television set cabinet. Normal window cleaning products can be used to clean the screen.

Never use strong detergents, abrasive cleaner or polish to clean either the cabinet or the screen.

SCART USAGE

If only one SCART connector is to be used it is advisable to use SCART 1. If both are to be used the following use of Scart connections is likely to be most suitable:

Products	Scart 1	Scart 2
VCR and Satellite Receiver	VCR	Satellite Receiver
VCR and Games Console	Game	VCR
VCR and Hi-Fi	Hi-Fi	VCR
Satellite Receiver and Hi-Fi	Hi-Fi	Satellite Receiver

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14

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Circuit Description

1. Power Supply

The power supply is a conventional off line, isolated switch mode system. AC line voltage is applied to the circuit via switch fuse and the main input RFI filter. The degauss coil supply is taken off after the filter then the AC is rectified through a bridge circuit comprising D100 to D103. After filtering by C103 and C104 the DC is now fed to T100 switch mode transformer. TR100 is the switching transistor and it, in turn, is driven by the UC3844 IC100 which is a PWM (Pulse Width Modulation) control IC. In the basic chassis, the UC3844 is run as a fixed frequency PWM controller, the frequency being governed by R105 and C107.

1.1 HT Adjustment

VR100 is used to set the +B, this varies the output voltage by controlling the feedback voltage to the IC100. The +B rail is the line measured when this control is used. This line is set in accordance with the CRT that is fitted. When this rail is set then any variation in power demand by the receiver will be reflected in the feedback winding which, in turn, will appear as an error voltage on IC100-(2). This error voltage will, in turn, vary the PWM output to the switching transistor which, in turn, will maintain the output voltage constant.

1.2 Over Current Protection

The power supply is totally overcurrent protected by sensing the current through the switching transistor. The combination of R114, R113, D112, D113, R112 and C113 all act to provide conditioning of the sensing voltage for the IC100 current sense input. As current flows across TR100 collector-to-emitter junction (source drain for stereo) a voltage proportional to the current is produced across R114 and R113. This voltage is fed to Pin 3 current sense pin of IC100. When the predetermined threshold voltage is reached because of excess current drawn IC100 limits the current to protect the PSU and other circuits. After a period of time it will try to restart, if the fault has not cleared then it will shut down again. D112 and D113 are there to prevent the voltage developed rising to an unacceptable level on the sense pin of the IC. R112 and C113 provide a degree of filtering of the sense waveform. T100 also provides the isolation from the AC line to the chassis of the TV. All secondary supplies are isolated so that the main - and external connections are at ground potential, therefore, safe to the user. Warning! The heat sink on TR100 is live.

1.3 Supply Regulation

The 5V supply for some of the main ICs of the system is supplied from the secondary winding of T100, the 9V output is fed into a fixed 5V voltage regulator. The 33V tuner tuning volts is derived from the +B line using a band gap close tolerance shunt regulator D120. R115 and C114 are isolation components linking the non-isolated to the isolated side of the chassis for RFI and electrostatic purposes.

2. Tuner and Demodulator Circuits

The tuner TUN600 can be one of two models depending on what transmission system is being viewed. For the U.K. using PAL System I the tuner is a Salcomp 1590R. For all other European PAL and SECAM systems the tuner is a Salcomp 1490R. Both tuners are pin for pin compatible, the only difference is that the 1590R is UHF only and the 1490R is a multi band tuner. Both tuners are voltage synthesis types and tuning voltage is controlled by the system microcontroller IC500. AGC control of the tuner is determined by the demodulator IC400.

2.1 SAW Filter Options

The IF output of both types of tuner is a balanced output and is fed into a number of balanced input saws - SAW450, SAW600 and SAW601. As to which or how many saws are fitted is determined by the options fitted and the system to be received. In the stereo chassis SAW 600 is fitted.

However, this can be a different type of SAW depending on the system being received. A system table is presented on the circuit diagram giving the specific type of SAW to be fitted in the 601 position for each system.

2.1.1 SECAM L/L (option)

If the chassis is fitted with SECAM L/L the addition of SAW450 is required for the sound.

2.1.2 Stereo SAW

Should the full stereo option be required then SAW601 is replaced with SAW600 and SAW450 stays as it is if SECAM L/L is also required.

2.2 Vision IF Demodulator

Taking the basic case the outputs from whichever SAW600 or 601 is fed to the IF input of the demodulator IC400-(19), -(20) which is an STV8224. Under most applications there is only one adjustable component in this circuit and that is L401 tank coil. However, when SECAM L/L option is required an additional trim capacitor is required along with R416, C412, D532, R417 and R425. The incoming signal is demodulated in the STV8224. The demodulated video and intercarrier sound are then fed out on pin 3 STV8224. The combined signals are fed into the filter circuits for separation of sound and video. The separation is achieved by the use of ceramic filters. CF400 and CF401 are the filters that perform this task.

2.3 Dual System Sound Options

It will be noted that there are two ceramic filters, CF400 and CF401. Both sets are required if dual system operation is required. Details are to be found in the system table on the diagram for each option.

The separated signals are then fed back into the IC400 where the sound is demodulated and the audio processed. The video and audio are then routed by the internal switching of IC400. The routing is controlled by the microcontroller. The external video and audio from the Peri connector are also fed into this IC.

2.4 Tuner AGC Control

The STV8224 also performs AGC control for the tuner. The operational threshold for AGC action is controlled by the microcontroller, the threshold level is set up on IC400-(24).

2.5 SECAM L/L' Vision IF (option)

In the event of SECAM L/L' option being required, then additional IC450 needs to be fitted as does SAW450. This is in order to demodulate the AM sound of SECAM L/L system. Audio switching is then re-routed between IC450 and IC400, this is all done under the system microcontroller software in IC500.

The switching network comprising TR450, TR451, TR452, D450 and D451 is for the purpose of switching the SAW transducer with variation in band switching. Because the sound and vision carriers are transposed between Band 1 and Bands III, IV and V, then the balanced IF output has to be switched to the right transducer on SAW450. The switching is again controlled by the system microcontroller IC500. The transducer that is not being used is short circuited by its respective diode.

3. Peritel Output

The video out to the Peri connector is taken off before the filtered signal is fed back into IC400. It is then fed to a buffer circuit TR700 and then to pin 19 of the Peri connector.

4. Video Chroma Processing

IC800 is the video and chroma processing circuit. All controls are totally under software control. Customer controls can be adjusted from the front panel. The raster correction controls are only accessible in factory set-up and troubleshooting mode set by the system microcontroller. The customer controls are accessed in this mode, or by the conventional remote control.

The composite video is fed into IC800-(2). Separation of luma and chroma signals is carried out internally by the sampled data method using clocks generated by the external crystal. This method is used for all decoding processes in the chip. The sample clock is phase locked to the subcarrier for correct colour ident.

5. Delay Line

The sample component chroma signals are now fed to a digital, 1 picture line length delay line. The same sample clock is fed to the delay line IC801 as is fed to the IC800 so that phase relationship is maintained within the whole system.

5.1 RGB Matrix and Sync Separator

After passing through the delay line it is returned to IC500-(26), -(27) and then mixed with the luma and fed into the matrix circuits to produce the RGB output. The luma signal is also fed through a short delay line

which is integrated on to the IC800. The sync separation and time base circuits are also integrated on to this chip. Incoming video is stripped of its line and field sync pulses. The horizontal and vertical syncs are then derived from the composite sync waveform.

6. Time Base Generator

The line sync is fed to the line time base generator circuit. The line time base is derived from the master clock oscillator and divider circuit. The line pulses from the divider are fed into both PLL circuits along with the sync and flyback pulses. These combine together to produce the line drive for the line output circuit. Two PLL time constants are used to give good lock for both fixed, gen-locked syncs, such as from terrestrial transmission and from weak or variable sync such as VCR.

All controls for the line time base generator are integrated and are accessed via the I²C bus under microcontrol from IC500. These are set up in the factory by a test software.

6.1 Vertical Time Base

The vertical time base is again generated on chip by the use of the master clock in conjunction with the separated field sync. The divider circuit count is controlled by the sync pulse. The counter produces the pulses to generate the vertical ramp which is in turn fed to a buffer and then fed out to the field output circuit.

In the event of no valid sync being present then a direct injection mode is used to continue the function of the ramp generator. This direct mode then enables vertical scan to be maintained in the event of no signal being present.

7. RGB Drivers

The RGB video signals are fed out on IC800-(17), -(18), -(19). These signals are then buffered by the emitter follower circuits TR801, TR802 and TR803 before being fed to the tube base panel. External RGB signals are also able to be fed into this IC on pins 22, 23 and 24. These pins are normally fed with RGB levels of 700mVpp signals for nominal display. The choice of display is determined by the switch pin on IC800-(21). This is controlled by the output of the teletext chip blank signal or the blanking signal from the microcontroller for on screen graphics display or the PERITEL pin 8.

7.1 Auto Grey Scale Tracking

The system also incorporates an automatic grey scale tracking system. This removes the need for manual adjustments to set up background luma levels in high-light and low-light areas on CRTs.

For correct tracking the auto grey scale works on the principal of taking measurements of the dark current during the field blanking period and also inserting a peak white signal in that period and setting those thresholds to control the output stages of the chip. This ensures that the tube characteristics are constantly being matched by the video output so that grey scale and picture colour integrity is constantly maintained.

7.2 Beam Limiter

The RGB output gains are also affected by the beam limiter circuit on IC500. This is to prevent the tube from being damaged or its life expectancy being shortened by excessive beam current.

The sensing of the beam current is performed at the bottom end of the DST secondary supplying the EHT focus and G2 voltages to the tube. The reference point is pin 7 on the DST, this current is sensed as a change in voltage developed across resistors and fed to the beam limit sense IC800-(9). This voltage is measured against a reference which represents maximum beam current. When the sensing level exceeds the reference then the gain on RGB output amps is reduced, thereby reducing the beam current. Saturation control, brightness and contrast are adjusted via the remote control but the nominal levels are preset in the factory by the I²C bus using the microcontroller and test software.

8. System Microcontroller (IC500)

The ST6365 is a dedicated microcontroller for TV control applications. It has such features as dedicated voltage synthesis tuning control, AFC control and on-screen graphics display generator. Also it has a dedicated infrared remote control serial data input. This microcontroller has a dedicated I²C port for communication to other controllable ICs. The controller clock frequency is 8MHz and this clock speed is achieved by connecting an 8MHz ceramic resonator across the oscillator pins 31 and 32 with two 100pF capacitors, C507 and C508, to ground from each pin. The timing for all functions performed by the microcontroller including I²C bus are taken from this clock.

8.1 Voltage Synthesis

The on-chip voltage synthesis tuning peripheral has been integrated to allow the generation of a tuning reference voltage. The peripheral is composed of a 14 bit register that represents the tuning voltage at pin 1. This voltage is generated using pulse width modulation and bit rate multiplier techniques.

The 14 bit counter gives 16384 steps which allow a resolution of approximately 2mV over a tuning voltage range of 32V. Coarse tuning is achieved by PWM of the 7 most significant bits of the counter, whilst fine tuning is achieved by BRM (Bit Rate Multiplication) of the 7 least significant bits of the counter.

The resultant digital pulse train is fed into the base of TR410. This inverts the pulse train which is then fed into the 3 stage integrator which integrates the pulse train into a DC voltage.

8.2 AFC Control

The output of the voltage synthesizer can be changed either by the remote control or the local keyboard. The tuner oscillator is kept on frequency by the application of AFC. The AFC acts on the voltage synthesizer via a feedback path. The AFC is generated by IC400. This voltage is fed back to the AFC pin 9 on the controller. As the tuner oscillator drifts either up or down so the signal applied to IC400 deviates from the optimum. As a result an error voltage appears on IC400-(2). This voltage can be either positive or negative with respect to the optimum voltage. This error voltage is fed to pin 9 of the microcontroller. This voltage is then digitized. If the digital value is optimum then no change is made to the synthesized digits. If the digital value is either side of optimum, then the resultant AFC value is either added to or subtracted from the synthesizer value.

8.3 Analog Controls

Pins 2 and 5 on the microcontroller are PWM D-A converters. However, these are only 6 bit resolution which is perfectly acceptable for the analog functions they perform.

The D-A on pin 2 is used as the electronic volume control for the sound. The D-A on pin 3 is used for the multi-level voltage control for audio and video switching of IC400 and IC450. The D-A on pin 4 is used to produce the threshold level for the AGC to the tuner. The final D-A on pin 5 is as yet uncommitted. The microcontroller has 3 I/O ports as well as the dedicated peripheral pins, some of the I/O ports also have dedicated functions and are listed as their dedicated function, i.e. the AFC on pin 9 is bit 3 of port B.

8.4 Key Pad Interface

Bits 0-2 and bits 4-5 of port B provide the matrix for the crosswire keypad.

8.5 Sync Detector/Mute Control

Bit 6 of port B is a sense pin which mutes the sound when text is displayed and incoming signal is lost. Normally the microcontroller will mute the sound when the aerial is removed or tuning is off station because it detects no line lock coincidence.

However, in out-of-hours sync mode, the text chip set detects lack of sync coincidence and mutes the sound. Bit 0 on port A senses the status of pin 8 on the peri connector for switching video and sound to incoming signals on the peri connector.

8.6 Peritel Monitor/OSG Control

Bit 1 on port A monitors the blanking signal on pin 16 of the peri connector and also the blanking signal from text and OSD sources. Bit 2 of port A acts as the control line for the switch that acts on SAW450 as described in section 2. Bit 3 is usually linked to ground, however for System PAL BG/SECAM L/L' this link is omitted.

8.7 Band Switching and LED Driver

Bits 4 to 6 of port A are the band switching outputs which drive the band switches. Bit 7 of port A is connected to the LED D500. Pins 22 and 25 are OSG display pins whilst pins 26 and 27 are the sync input pins. Pin 33 is the hardware power-on reset. Pin 34 is the SECAM L/L SAW selector switch. Pin 35 is IR input line. Pin 36 is BG/DK system select.

8.8 Standby Control/ Sound Mute

Pin 37 is available as a standby line for external use. In normal standby, the controller shuts down all circuits that provide drive to output stages, thereby placing the system in quiescent current consumption mode. Pin 39 is the sound mute output which drives the sound mute transistor TR5 and TR7. Pins 40 and 41 are the dedicated I²C bus.

9. Output Power Stages

This section describes the power output stages for video, audio, line and field scanning system.

9.1 Field Output (IC200)

The TDA8170 IC200 is a power output amplifier designed to drive the vertical scan coils on the CRT yoke. The saw-tooth waveform is fed into pin 1 from pin 7 of IC800. Internal to IC200 is the flyback generator. The flyback generator produces a pulse equivalent to the field blanking period during which time no visible video appears on the screen. The saw-tooth voltage waveform is converted to a current waveform that drives the field scan coils.

The flyback part of the waveform is also used to generate the vertical sync pulse for the OSD. The circuit R207, D202 and R208 slice the waveform to give the vertical sync pulse and to limit it to a voltage of no greater than 4.7V.

9.2 Line Output Stage

The line output stage has to provide a number of things for the system. Firstly, it provides the power and the waveform to drive the horizontal scan coils on the CRT yoke. Secondly, it provides the voltages for the tube, EHT final anode drive, focus voltage and G2. Thirdly, it provides two secondary low tension voltages, 15V and 26V, and after passing through a fixed voltage regulator, IC300, 12V. Fourthly, it provides on the primary side of the transformer the 150/180V supply for the tube base video output amplifiers and, finally the voltage for the heaters on the CRT of around 6.3V.

The tuning capacitor C300 is selected by the type of tube fitted as are the correction circuits L300, L301, R300 and R301.

9.3 Line Driver

The line drive signal from IC800 is first clamped by D804 then inverted by TR800. The resulting waveform is fed to TR301 line driver stage. The drive is applied to the line output transistor TR302 across the line driver transformer T311. TR302 drives both the diode split transformer T300 and the line scan coils connected to PL351. The field coils are also connected to PL351.

9.4 12V Regulator Circuit

The 15V generated off the low side secondary of the diode split LOPT is used in the beam current sensing circuit prior to it being fed into the 12V fixed regulator IC300. From the primary side of the diode split there is a circuit which is used to produce a low level line flyback pulse. This is the circuit around TR300. The flyback pulse is used by the IC800 for synchronization in PLL's and also for the line blanking during video for line flyback period. Also from this circuit is supplied the horizontal sync pulse for the OSD of the microcontroller.

9.5 Flyback Pulse Circuit

The flyback pulse is fed into TR300 via two high value resistors R302 and R303. The high values are because at the take-off point the flyback pulse could be in excess of 1kV. The capacitor C306 is a speed-up capacitor to improve turn on and off characteristics of TR300. The diode D305 clamps the incoming flyback pulse to 5V so that the output at the emitter of TR300 does not rise above 5V and that the base of the transistor is not spiked by excessive transient voltages.

10. Video Output Stages

The video output transistors TR900, 901, 902 are driven directly from the buffer transistor circuits at the output RGB of IC800. The gain of the stage which determines the video voltage swing applied to the tube cathode is set by a register in IC800. The actual gain control known as contrast is also a register in IC800 as is the brightness control.

The capacitors connected across the emitter resistor is to give a little extra gain at the HF end. The transistors TR903, 904, 905 are the dark/light current sense transistors and feed the dark current sense on IC800-(20) for auto grey scale.

10.1 Auto Grey Scale

When the video output transistor is driven with peak white which equals max. beam current then the voltage drop across the diodes increases thereby making a difference of potential between base and emitter causing the transistor to conduct. This produces an output by the collector proportional to the high beam current. As the output transistor

is turned off at black level, so the reverse happens with the sense transistors until we are left with a voltage that represents the dark tube leakage current which is a dark reference current for the tube.

10.2 Tube Base Interconnect

Connection to the tube base is via two connectors CN901 and CN902 for the main connectors, then by single connectors for the focus and G2. The final anode voltage is applied directly to the connection on the side of the tube bulb. The tag coating connection is made by a single tag to the tube base panel ground.

11. Teletext Options

The text chip-set being used is the Texas Instruments 2 chip Videotext decoder set. Depending on what system is required Eurotext or Unitek determines what IC650 will be. A table of components that change are shown in the "Text Table" on the schematic. IC651 is the data slicer and timing signal generator. The timing signals are all generated with respect to the master clock which is derived from the crystal XT65. The value of this crystal is twice the data rate of the text signal: 13.875MHz.

This clock is synchronized to the clock run-in signal at the front of the data packet. The data is then output to IC650 along with data clock and the other timing signals. IC650 then decodes the data and produces the text display for the screen. If the TV signal is present then the whole thing is locked to the incoming sync signal.

If the TV signal is not present then the system generates its own sync so that text stored in memory can still be displayed in a locked form. A commands and customer selection are engaged via the I²C bus which is attached to the microcontroller I²C bus.

The RGB outputs are then fed to the input for external RGB on IC800. The control signal for the blanking function is taken to switch input of IC800-(21). For Eurotext the outputs are directly fed to IC800 while buffers are used for Unitek.

12. Power Supply to MSP 3400/3410

Power is supplied to the MSP from pin 4 of plug PL102. This is an 8V supply derived from the chopper transformer and is therefore available when the receiver is in standby. The 8V supply is regulated to 5V by IC and applied to the MSP via RFI filters (L2, CT2 and L4, CT4) to pins 1 and 57 of the MSP. The 8V is supplied to pin 39 via the RFI filter L3 and CT3. The reason the 8V line operates in standby is because this locks the internal audio switches into pre-set positions when the 5V voltage is removed so as to reduce the standby power. TR4 is open circuit during standby.

12.1 MSP Operation

The ITT MSP3410 decodes FM, dual-channel and NICAM sound; the MSP3400 does not do NICAM. The intercarrier input is applied to pin 58 for all systems except France where an additional filter may be required. The input is then to pin 60. The MSP is controlled by the clock and data lines (I²C) from the microcontroller. The IC generates an internal clock from the crystal on pins 62, 63 at 18.432MHz. Resistor components are on pin 24. Note there are no adjustments on the MSP as all processing is done digitally. Note, the volume control is now a I²C operation as is treble, bass and balance.

13. Second Peritel and Mute Circuit

Video from the second peritel is supplied from pin 20 of Peritel 2. This is then buffered by TR20 and applied to IC4-(1). IC4-(2) carries video derived from the tuner and IF amp. The switch position is controlled by IC4-(10). The microcontroller (pin 5 DA4) controls the switch position. The output of IC4 (pin 15) is applied to the times-2 gain stage TR1, TR2 and out to Peritel 1, input of IC400 -(10) and so to the picture tube. There is no input from Peritel 1. Mute Circuits TR5 and TR7 mute the loudspeaker channels. TR12, 13, 10 and 11 mute the two Peritel audio outputs. The mute circuit is driven by port zero and port 1 (pins 4 and 5) of IC1. Pin 5 mutes the speaker channel and pin 4 the Peritel channels. TR9 detects when the receiver is switched off and mutes all audio outputs.

14. Audio Amplifier

The audio amp generates 6+6 watts of RMS power into 8R speakers. The power is derived from a 21 volt winding on the chopper transformer.

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Alignment

All adjustment controls not mentioned in this description are

Measuring Instruments: Oscilloscope with 10:1 test prob

Service Mode:

In this mode the alignment of Geometry, Peak White Level controls can be used.

Call up Service Mode:

To enter the service mode, depress and hold the channel cl appears. The service menu will be at the bottom of the s. simultaneously depress "V+" and "V-" on the front of the TV, t another function will automatically store the adjustment of th or "V-" on the TV.

Checks and adjustments after replacement or repair o

Power Supply: 1., 3.

Horizontal Deflection: 2., 3., 6.

CRT, CRT-Panel: 2., 4.

Tuner: 5.

IC1400: 5., 7.

IC600: 8.

Alignment	Preparati
1. +B Voltage	Set luminance to minimum. Voltmeter to the cathode of D1
2. Screen grid voltage U_{G2}	Feed in a crosshatch or TV pic: Brightness (☉) Minimum. Contrast (●) Maximum. Select Service Mode "G".
3. Geometry: Vertical Linearity Vertical Height Horizontal Shift	Feed in a convergence test pat Select "L" in the Service-Mode Select "V" in the Service-Mode Select "H" in the Service-Mode
4. White balance	Feed in a FuBK test pattern. Set the colour contrast (●) to m Set the contrast (●) to maximur Adjust the screen brightness (☉) the darkest grey scale value to Select "R", "G", or "B" in the S.
5. Tuner-AGC	Feed in a standard test pattern range of the UHF; the RF shou of noise). Select "A" in the Service Mode
6. Line sharpness	Feed in a convergence test pa Contrast (●) to maximum. Set the brightness so that the bi pattern is just brightening.
7. Vision demodulator	Feed in a convergence test pat on PAL I) to tuner contact 13 v
8. SAT 6MHz	Feed in a convergence test pa Connect the oscilloskop to IC6

Alignment

All adjustment controls not mentioned in this description are adjusted during production and must not be re-adjusted in the case of repairs.

Measuring Instruments: Oscilloscope with 10:1 test probe, colour test pattern, high resistance voltmeter.

Service Mode:

In this mode the alignment of Geometry, Peak White Level and AGC can be carried out. To call up this mode, either the remote control or TV front controls can be used.

Call up Service Mode:

To enter the service mode, depress and hold the channel change buttons "P+" and "P-" on the front as the TV is switched on and hold until a picture appears. The service menu will be at the bottom of the screen **G L V H R G B A**. To choose a function select menu on the remote control or simultaneously depress "V+" and "V-" on the front of the TV, but only briefly. Adjustment of the selected function is by depressing "P+" or "P-". Choosing another function will automatically store the adjustment of the previous function. To return to normal TV mode select TV on the remote control or "V+" or "V-" on the TV.

Checks and adjustments after replacement or repair of:

Power Supply: 1., 3.

Horizontal Deflection: 2., 3., 6.

CRT, CRT-Panel: 2., 4.

Tuner: 5.

IC1400: 5., 7.

IC600: 8.

Alignment	Preparations	Alignment Process
1. +B Voltage	Set luminance to minimum. Voltmeter to the cathode of D115.	With control VR100 set the voltage +B as specified in the table CRT (page 4-22).
2. Screen grid voltage U_{G2}	Feed in a crosshatch or TV picture. Brightness (☉) Minimum. Contrast (☉) Maximum. Select Service Mode "G".	Adjust control G2 (at the bottom of the split transformer) so that no red or green square appears on the screen. If the G2 is too high → a red square appears on screen. If the G2 is too low → a green square appears.
3. Geometry: Vertical Linearity Vertical Height Horizontal Shift	Feed in a convergence test pattern: Select "L" in the Service-Mode. Select "V" in the Service-Mode. Select "H" in the Service-Mode.	Adjust with "P+" or "P-". Adjust with "P+" or "P-". Adjust with "P+" or "P-".
4. White balance	Feed in a FuBK test pattern. Set the colour contrast (☉) to minimum. Set the contrast (☉) to maximum. Adjust the screen brightness (☉) so that the gradation from the darkest grey scale value to black is just still visible. Select "R", "G", or "B" in the Service Mode.	Set "P+" or "P-" so that no colouration of grey bars is visible.
5. Tuner-AGC	Feed in a standard test pattern at a channel in the upper range of the UHF; the RF should be $\geq 3\text{mV}$ (70dB μV , free of noise). Select "A" in the Service Mode.	With "P+" or "P-" adjust the voltage on tuner contact 1 to 5.4...5.6V .
6. Line sharpness	Feed in a convergence test pattern: Contrast (☉) to maximum. Set the brightness so that the black background of the test pattern is just brightening.	With the focus control " FOCUS " (upper adjustment control of the split transformer) adjust the horizontal lines for maximum sharpness.
7. Vision demodulator	Feed in a convergence test pattern of 38.9MHz (39.5MHz on PAL I) to tuner contact 13 via 1nF.	With filter L401 set the DC level at IC400-(2) to 5.25V.
8. SAT 6MHz	Feed in a convergence test pattern (UHF) on the TV set. Connect the oscilloskop to IC600-(12).	Adjust L604 to minimum video.

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Assembly coordinates of the components

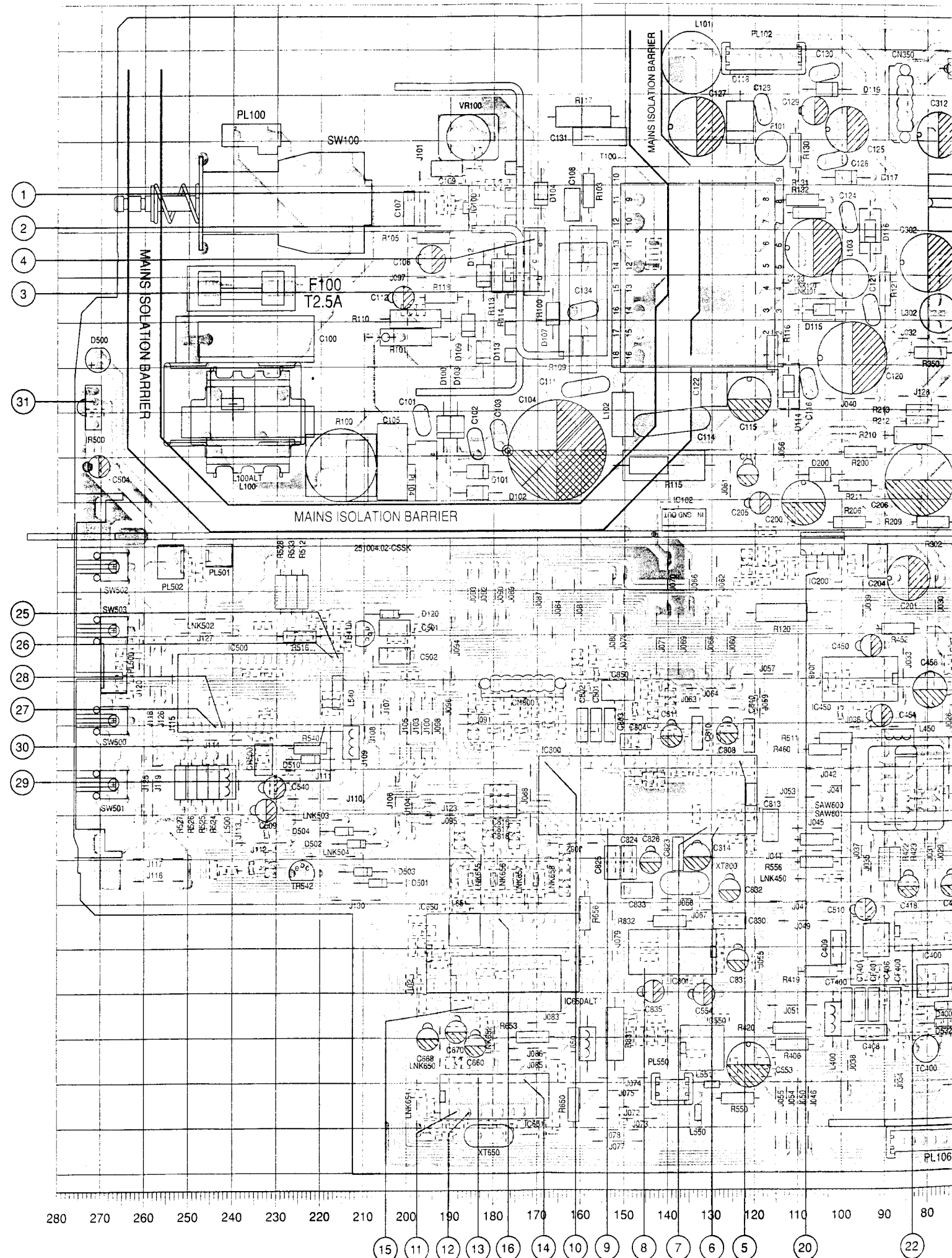
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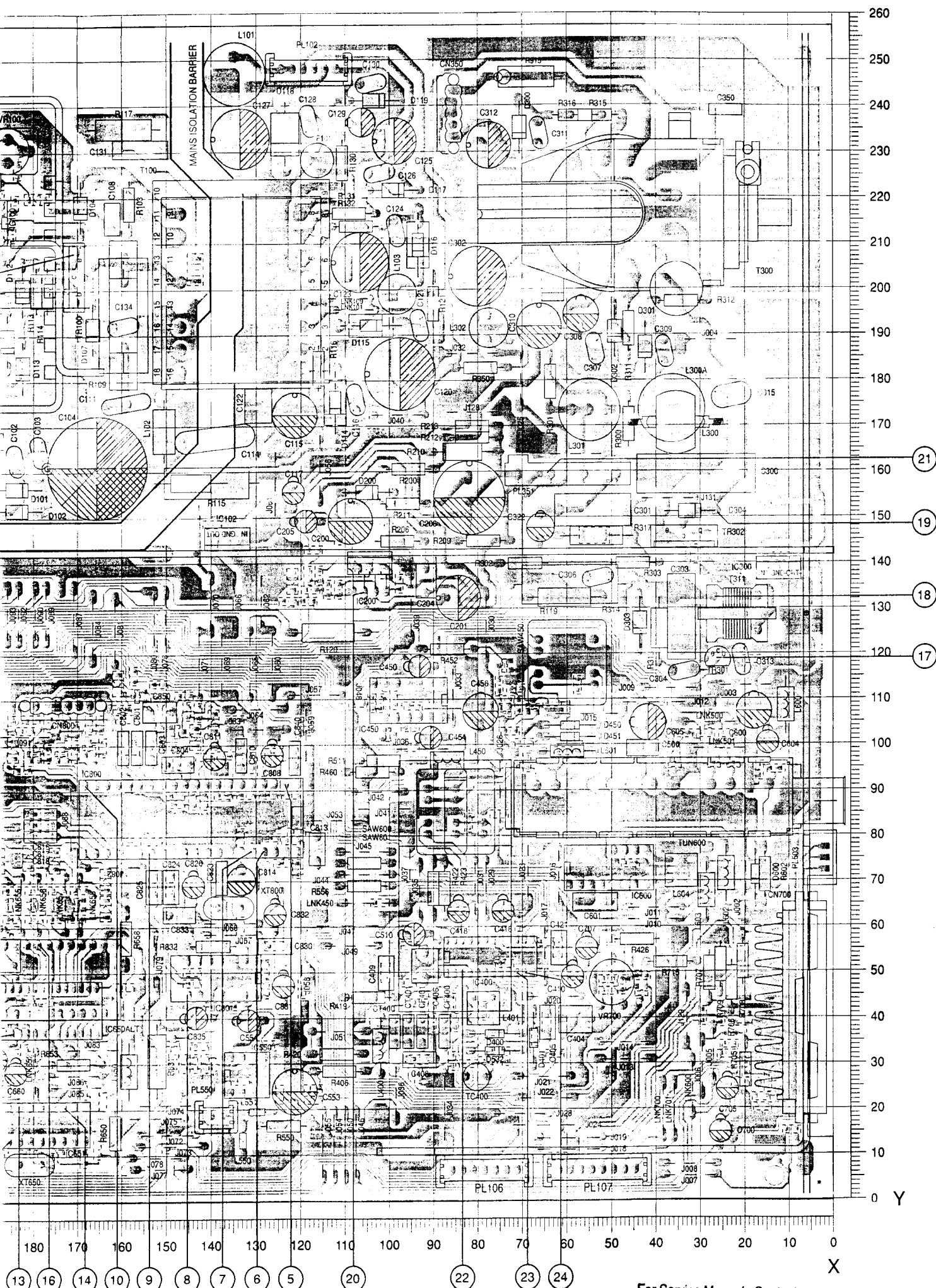
**Coordinates of the components on the components side
(top side)**

GRUNDIG Service

Pos.-Nr./ Pos. No.	Koordinaten/ Coordinates		Pos.-Nr./ Pos. No.	Koordinaten/ Coordinates		Pos.-Nr./ Pos. No.	Koordinaten/ Coordinates		Pos.-Nr./ Pos. No.	Koordinaten/ Coordinates		Pos.-Nr./ Pos. No.	Koordinaten/ Coordinates		Pos.-Nr./ Pos. No.	Koordinaten/ Coordinates	
	X	Y		X	Y		X	Y		X	Y		X	Y		X	Y
L100	242	174	LNK600	30	24	R109	160	197	R317	52	147	R708	19	52			
L100ALT	238	170	LNK650	193	28				R318	63	245	R709	24	52			
L101	135	250	LNK651	198	15	R110	199	193	R350	79	185	R715	35	52			
L102	151	171				R113	180	202	R406	111	28						
L103	98	201	LNK652	180	28	R114	177	202	R419	104	45	R720	105	75			
			LNK655	183	66	R115	141	159				R831	152	31			
L300	29	172	LNK656	180	66	R116	116	185	R420	112	32	R832	140	56			
L300A	30	175	LNK657	173	66				R422	89	69						
L301	52	175	LNK658	170	66	R117	160	238	R423	87	69	SAW450	59	119			
L302	77	194				R118	193	197	R426	43	57	SAW600	84	86			
L303	52	175	LNK700	37	19	R119	60	134	R452	86	122	SAW601	84	86			
			LNK701	35	19	R120	114	126				SW100	239	219			
			LNK901	218	20	R121	89	199	R460	103	95	SW500	269	102			
L400	102	34							R511	101	97						
L401	78	42	OMEGA1	300	255	R130	110	230	R512	225	131	SW501	269	87			
L450	86	97	OMEGA2	11	5	R131	109	219	R516	226	121	SW502	269	137			
L500	242	88				R132	107	216	R524	246	88	SW503	269	123			
L540	214	97	PIN001	227	61	R200	95	162									
			PIN002	230	61	R206	98	146	R525	248	88	T100	133	203			
L550	133	13	PIN003	232	61				R526	251	88	T300	43	218			
L551	130	19	PIN009	273	61	R209	78	146	R527	253	88	T311	20	130			
L600	9	109				R210	83	166	R528	230	131						
L601	59	99	PL102	118	251	R211	96	155	R533	228	131	TC400	80	27			
L602	23	72	PL104	197	158	R212	81	169									
			PL106	78	6	R213	81	172	R540	223	95	TR100	174	205			
L603	27	68	PL107	52	6				R550	124	16	TR301	25	120			
L604	33	73	PL351	59	162	R300	40	173	R556	105	69	TR302	32	144			
L650	159	28				R301	63	182	R561	222	79	TR410	211	121			
L651	187	54	PL500	269	115	R302	68	141	R562	236	131						
			PL501	245	139	R303	44	141				TUN600	34	89			
LNK100	109	200	PL502	256	138	R311	45	193	R602	14	72						
LNK101	108	198	PL503	1	75				R650	162	15	VR100	187	233			
LNK450	105	66	PL550	139	18	R312	33	199	R653	171	30	VR700	49	48			
LNK500	27	106				R313	38	127	R656	159	58						
LNK501	24	100	R100	216	160	R314	58	136	R705	18	28	XT650	182	8			
			R101	201	188	R315	53	240				XT800	136	65			
LNK502	249	125	R103	159	221	R316	57	240	R706	21	48						
LNK504	219	71	R105	195	211				R707	27	50						

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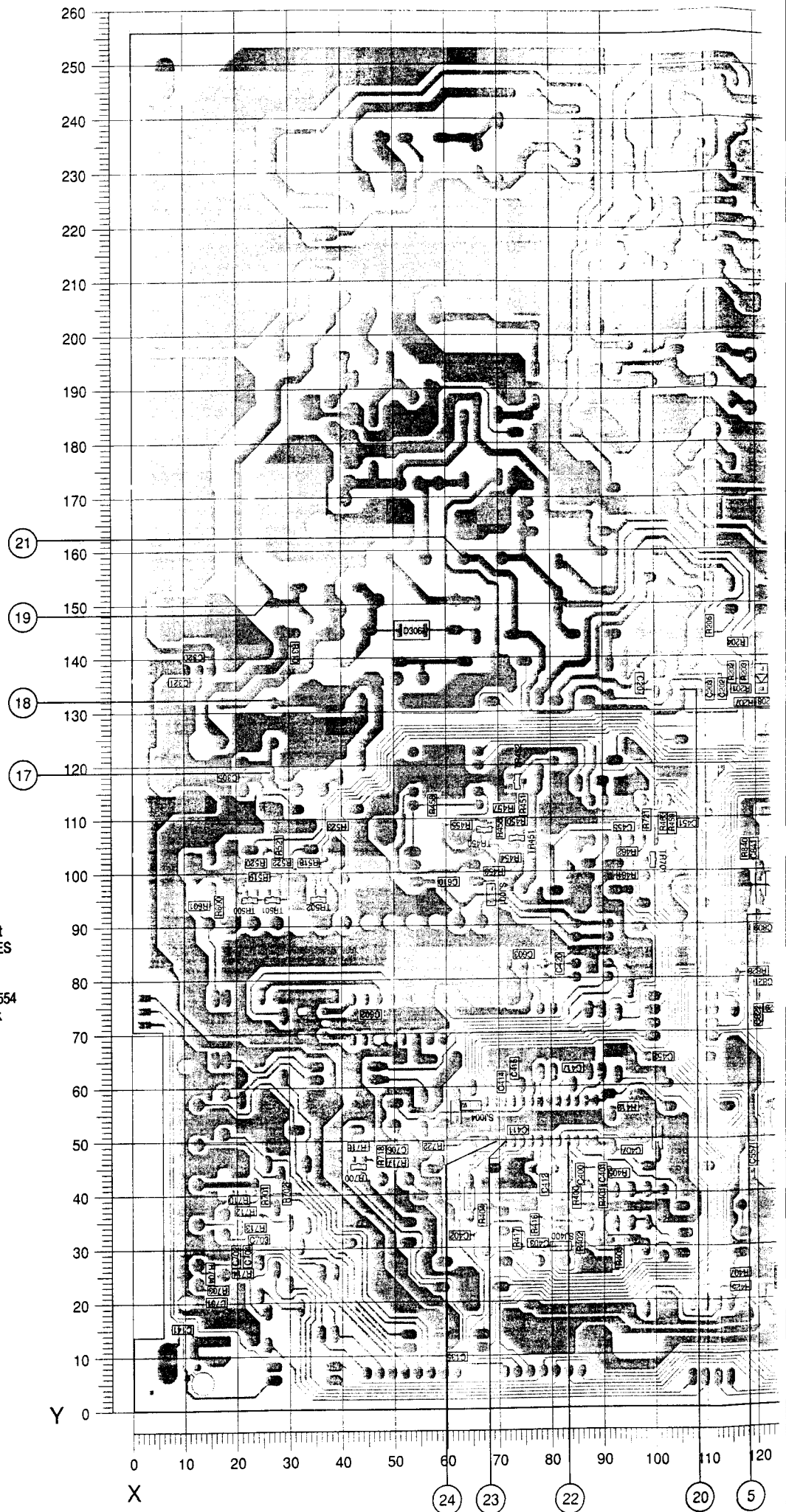


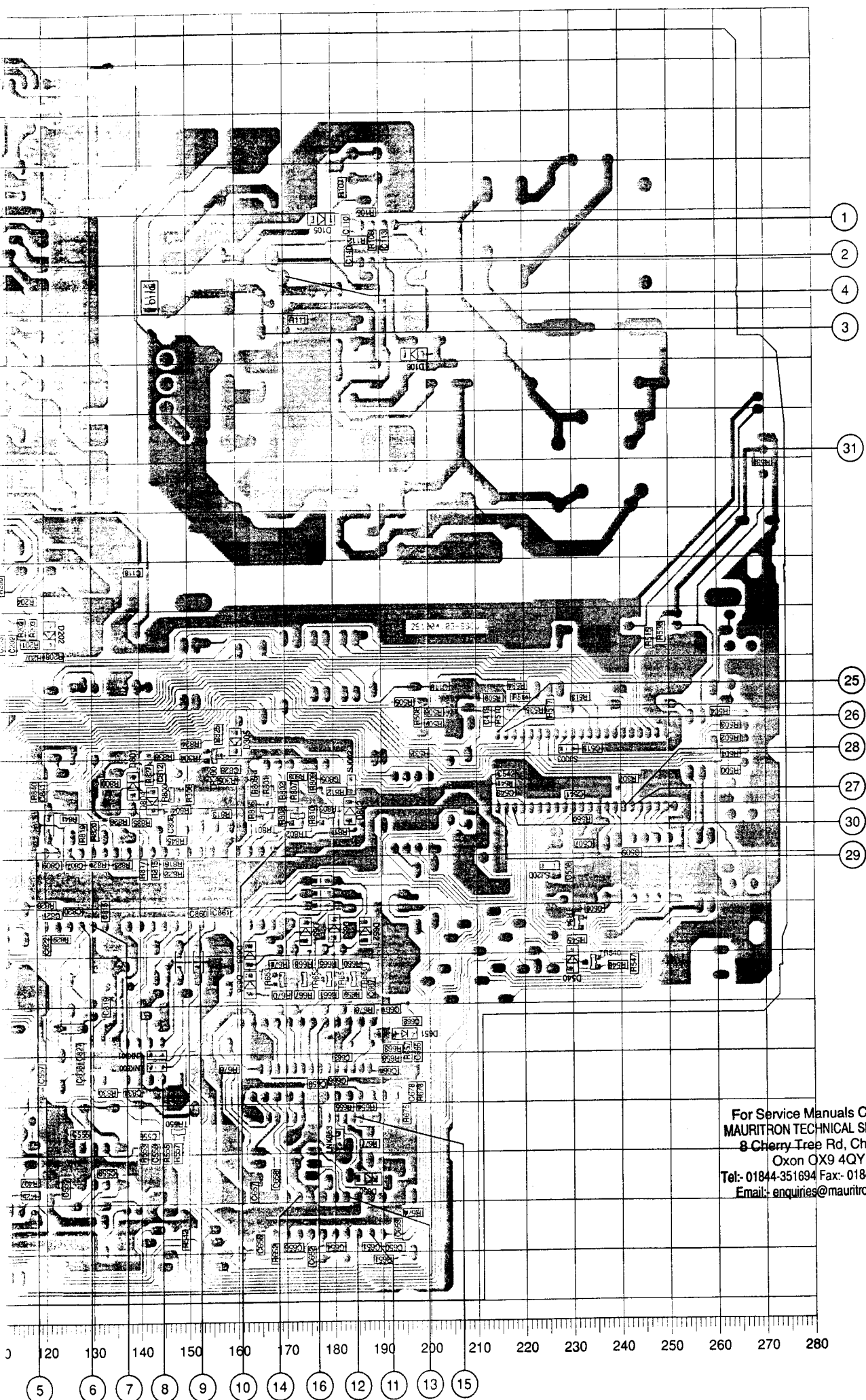


Chassis Board

Solder side, bottom view

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 Email: enquiries@mauritron.co.uk

Chassis Board

Coordinates of the components on the solder side
(bottom side)

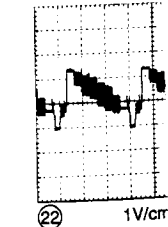
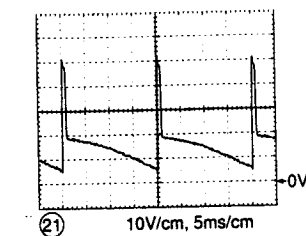
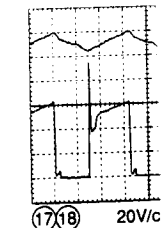
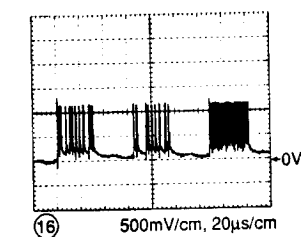
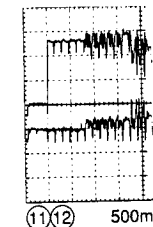
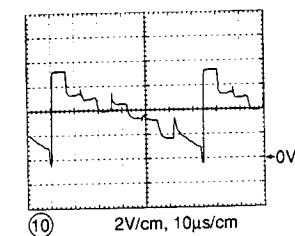
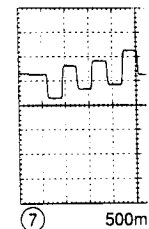
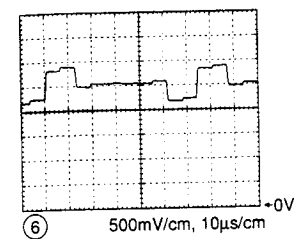
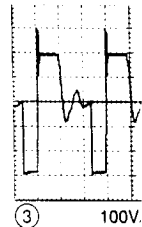
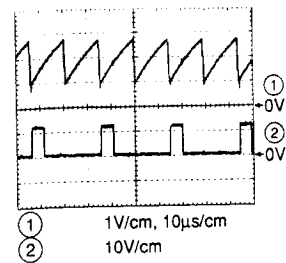
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C110	189	221	C655	170	11	D656	168	65	R463	106	110	R667	179	62	R827	147	108
C113	197	218	C656	177	10	D801	143	106				R668	179	69	R828	125	81
C118	144	150	C657	168	22				R500	270	108				R829	128	75
C119	208	126	C658	173	24	D802	189	100	R501	270	111	R670	174	62			
C135	65	9	C659	182	44	D804	147	103	R502	270	115	R671	174	69	R830	138	43
						DST-PSU	105	171	R503	270	117	R673	204	42	R835	145	98
C140	189	215	C661	198	59				R504	268	120	R674	202	17	R836	150	112
C141	12	15	C662	202	57	LNK503	230	103				R675	201	38	R840	122	105
C202	117	135	C663	187	49	LNK653	186	33	R505	201	123				R841	130	99
C203	115	135	C664	197	47	LNK800	148	48	R506	204	120	R676	163	47			
C207	101	137	C665	203	50	LNK801	148	50	R507	207	118	R677	193	32	R845	152	95
						MICR-GND	168	88	R508	207	121	R678	192	59			
C305	21	120	C666	186	45				R509	220	123	R700	26	35	SAW	68	81
C320	14	142	C667	193	64	R106	193	224				R701	28	40			
C321	11	138	C678	202	42	R107	188	229	R510	221	120				SJ001	72	97
C400	89	43	C701	18	20	R108	194	218	R513	239	119	R702	32	40	SJ002	189	106
C401	93	43	C702	22	28	R111	179	202	R514	226	123	R703	19	22	SJ003	236	113
						R112	191	218	R515	253	135	R704	17	25	SJ004	68	57
C402	66	32	C703	28	31				R517	232	121	R710	23	39	SJ200	232	88
C403	81	30	C704	24	28	R201	121	133				R712	24	37			
C407	99	48	C706	53	48	R202	121	138	R518	36	103				SJ400	85	30
C411	77	52	C805	185	107	R203	121	135	R519	27	101	R713	26	33			
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						R205	115	148	R521	31	106	R716	46	49			
C414	74	61	C807	131	90				R522	31	103	R717	53	46			
C415	76	64	C809	126	90	R207	121	127				R718	50	47	TR300	160	112
C417	88	64	C812	149	108	R208	130	135	R523	42	110				TR450	71	109
C419	219	120	C815	137	80	R304	155	112	R530	255	137	R721	102	111	TR451	77	108
C420	85	83	C819	137	61	R305	163	107	R531	277	172	R722	60	49	TR452	77	118
						R306	155	104	R532	204	112	R800	139	107	TR500	25	96
C451	111	110	C820	130	80				R534	225	126	R801	172	106			
C452	106	66	C821	126	80	R307	248	106				R802	175	104	TR501	29	96
C455	98	109	C822	125	73	R310	34	143	R535	229	121				TR502	38	96
C505	249	91	C827	132	51	R400	88	39	R541	222	106	R803	178	108	TR540	241	68
C506	241	80	C828	164	109	R401	93	39	R542	154	12	R804	153	101	TR541	237	77
						R402	89	30	R545	237	73	R805	169	106	TR542	225	68
C507	239	93	C834	143	43				R546	246	68	R806	168	101			
C508	236	87	C836	132	47	R403	97	28				R807	177	104	TR550	152	35
C515	241	113	C841	124	105	R404	70	36	R547	249	68				TR650	190	66
C541	237	103	C860	157	80	R405	97	43	R553	145	30	R808	175	99	TR651	184	66
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C555	132	34	D105	184	222	R417	77	31	R600	19	95				TR701	104	103
C556	146	34	D108	203	195	R425	121	22	R601	15	95	R813	162	100	TR800	152	104
C557	123	47	D110	147	207	R450	77	111	R651	196	8	R815	148	89	TR801	172	101
			D202	127	135	R451	78	114	R652	173	9	R816	152	90	TR802	178	99
C558	148	30	D305	165	115				R654	192	39	R817	145	89			
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C652	180	8	D653	186	76	R459	107	110	R661	184	62						
C653	199	14	D654	179	75	R461	99	100	R663	198	51	R825	161	116			
C654	186	10	D655	168	71	R462	99	105	R665	184	69	R826	140	99			

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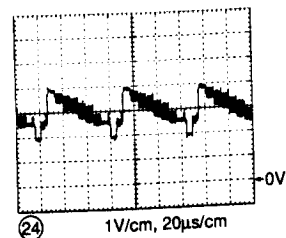
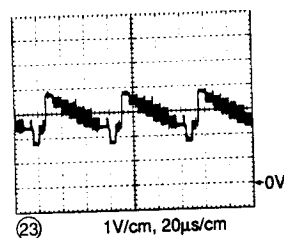
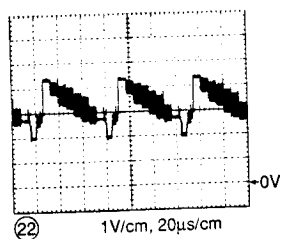
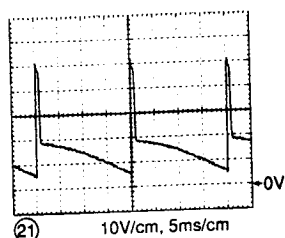
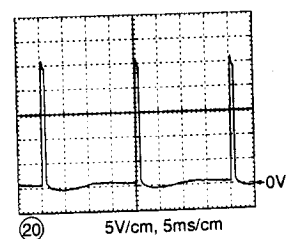
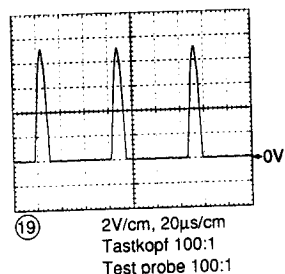
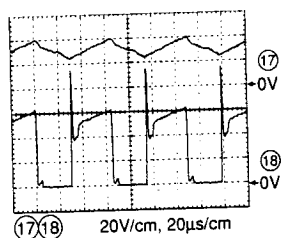
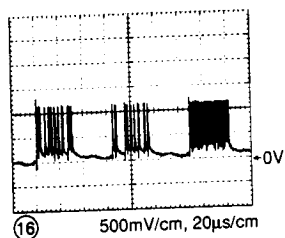
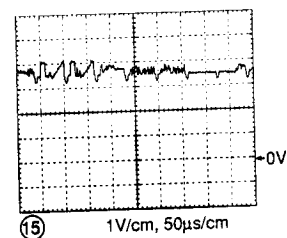
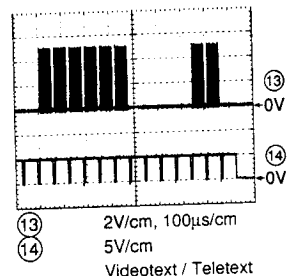
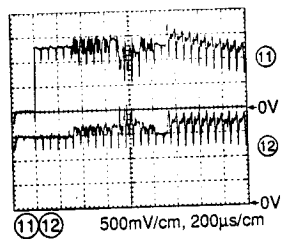
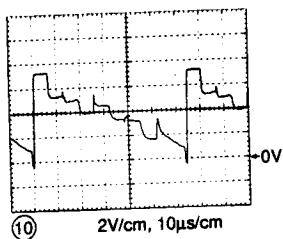
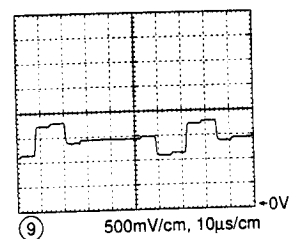
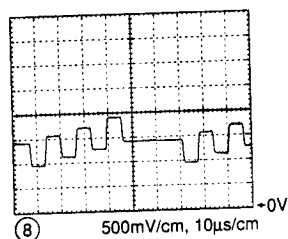
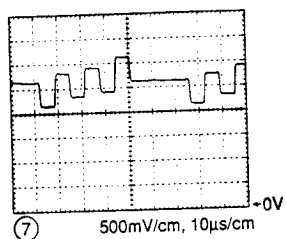
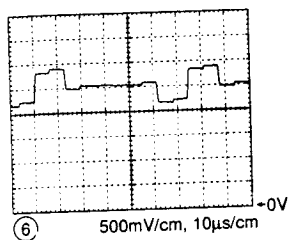
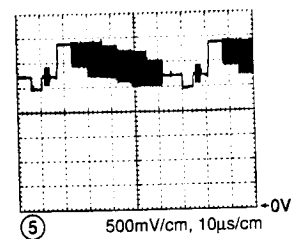
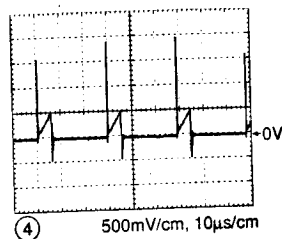
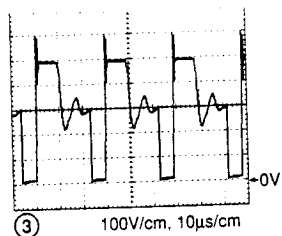
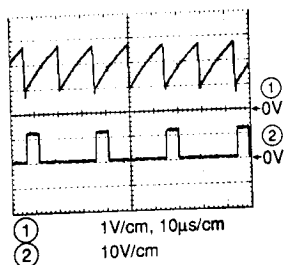
Oscillograms

the solder side

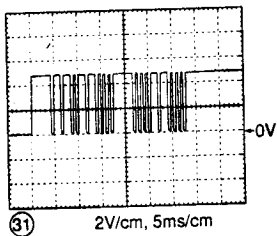
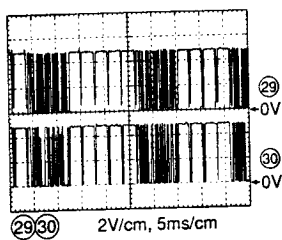
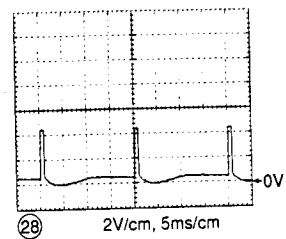
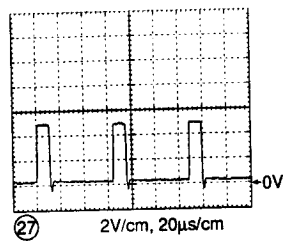
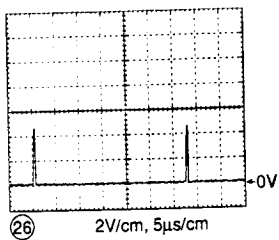
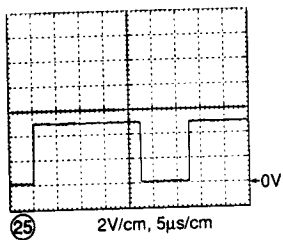
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D801	143	106				R668	179	69	R828	125	81
			R500	270	108				R829	128	75
D802	189	100	R501	270	111	R670	174	62			
D804	147	103	R502	270	115	R671	174	69	R830	138	43
DST-PSU	105	171	R503	270	117	R673	204	42	R835	145	98
			R504	268	120	R674	202	17	R836	150	112
LNK503	230	103				R675	201	38	R840	122	105
LNK653	186	33	R505	201	123				R841	130	99
LNK800	148	48	R506	204	120	R676	163	47			
LNK801	148	50	R507	207	118	R677	193	32	R845	152	95
MICR-GND	168	88	R508	207	121	R678	192	59			
			R509	220	123	R700	26	35	SAW	68	81
						R701	28	40			
R106	193	224	R510	221	120				SJ001	72	97
R107	188	229	R513	239	119	R702	32	40	SJ002	189	106
R108	194	218	R514	226	123	R703	19	22	SJ003	236	113
R111	179	202	R515	253	135	R704	17	25	SJ004	68	57
R112	191	218	R517	232	121	R710	23	39	SJ200	232	88
						R712	24	37			
R201	121	133	R518	36	103				SJ400	85	30
R202	121	138	R519	27	101	R713	26	33			
R203	121	135	R520	26	103	R714	23	25	TEXT	166	15
R204	121	144	R521	31	106	R716	46	49			
R205	115	148	R522	31	103	R717	53	46	TR300	160	112
						R718	50	47	TR450	71	109
R207	121	127	R523	42	110				TR451	77	108
R208	130	135	R530	255	137	R721	102	111	TR452	77	118
R304	155	112	R531	277	172	R722	60	49	TR500	25	96
R305	163	107	R532	204	112	R800	139	107			
R306	155	104	R534	225	126	R801	172	106	TR501	29	96
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R307	248	106							TR540	241	68
R310	34	143	R535	229	121	R803	178	108	TR541	237	77
R400	88	39	R541	222	106	R804	153	101	TR542	225	68
R401	93	39	R542	154	12	R805	169	106			
R402	89	30	R545	237	73	R806	168	101	TR550	152	35
			R546	246	68	R807	177	104	TR650	190	66
									TR651	184	66
R403	97	28	R547	249	68	R808	175	99	TR652	179	66
R404	70	36	R553	145	30	R809	181	106	TR653	174	66
R405	97	43	R555	150	30	R810	181	99			
R407	121	24	R557	152	30	R811	187	96	TR700	46	45
R412	99	56	R560	239	98	R812	186	104	TR701	104	103
									TR800	152	104
R416	80	34	R600	19	95	R813	162	100	TR801	172	101
R417	77	31	R601	15	95	R815	148	89	TR802	178	99
R425	121	22	R651	196	8	R816	152	90			
R450	77	111	R652	173	9	R817	145	89			
R451	78	114	R654	192	39	R819	132	96	TR803	184	99
R453	72	101									
R454	76	104	R655	187	39	R820	135	97			
R455	66	110	R657	201	50	R821	136	90			
R456	74	109	R658	198	49	R822	152	88			
R457	74	113	R659	189	62	R823	141	90			
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Oscillograms

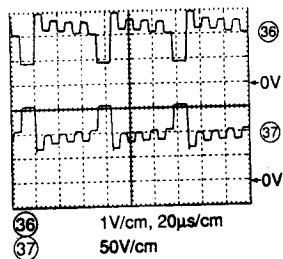
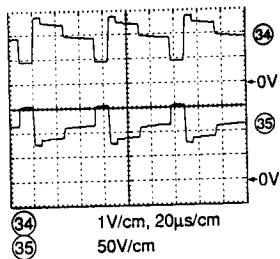
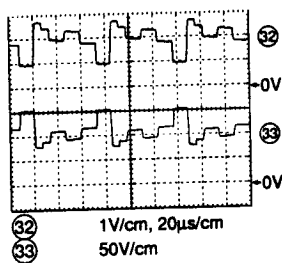


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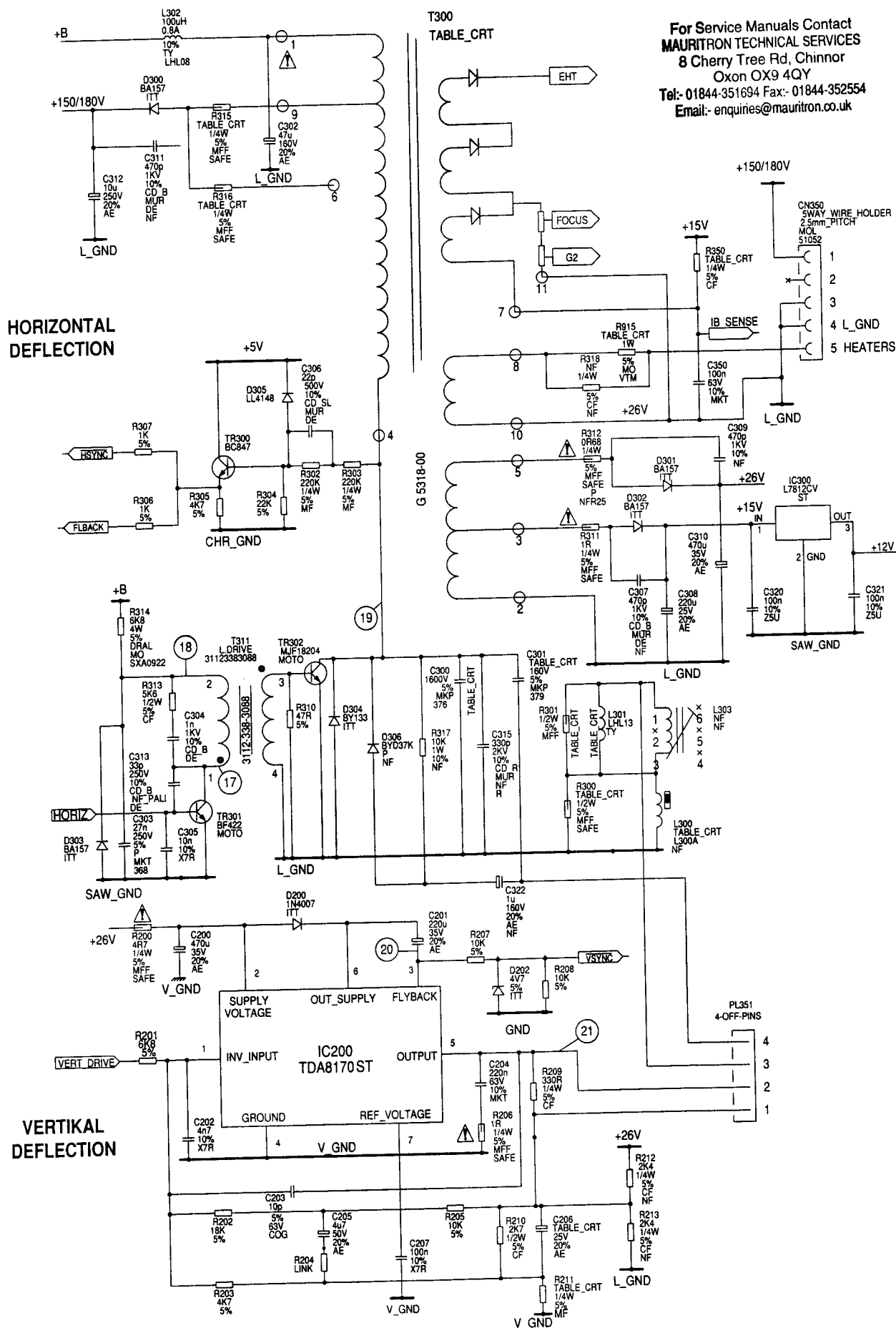


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Oscillograms CRT Panel

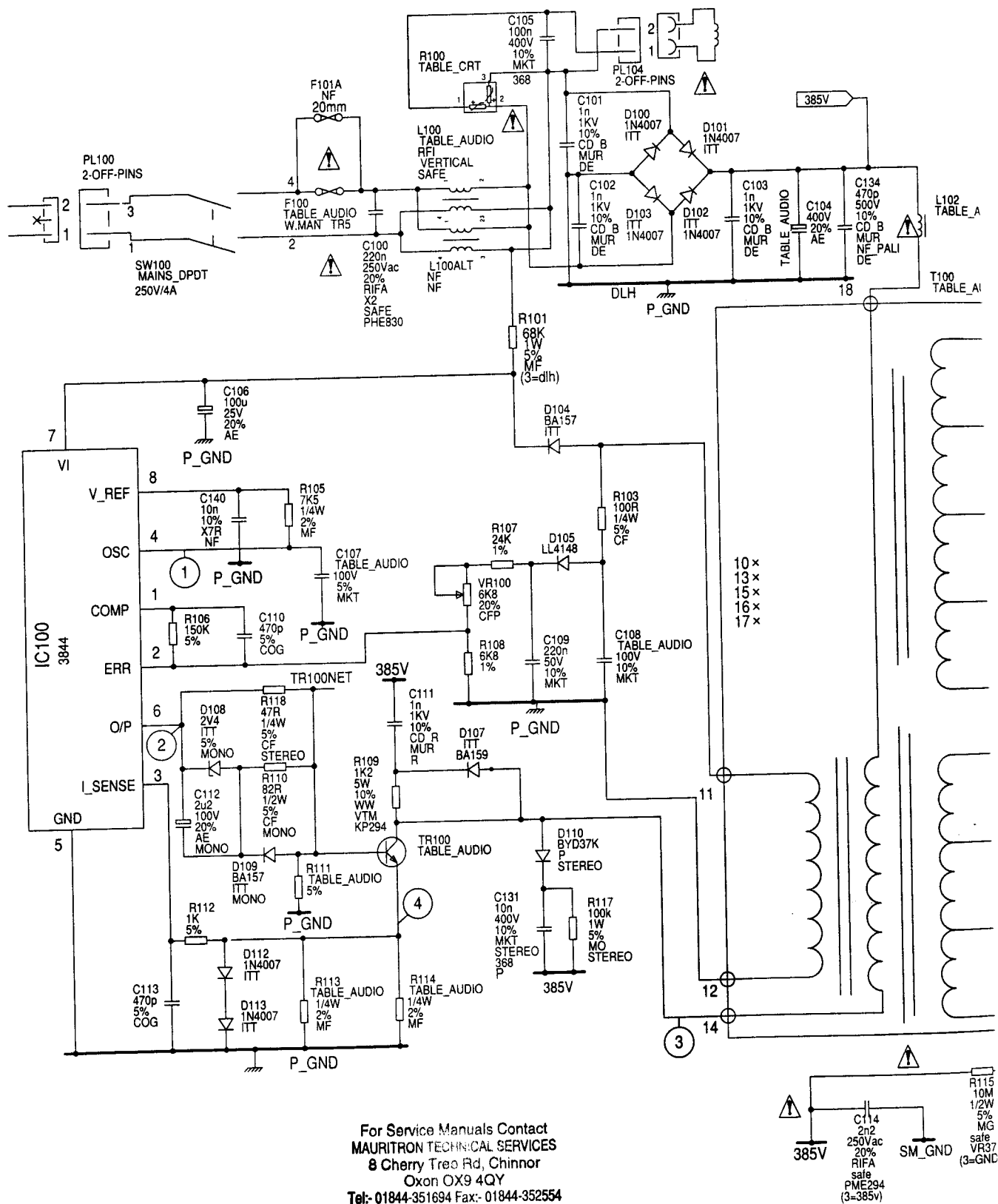


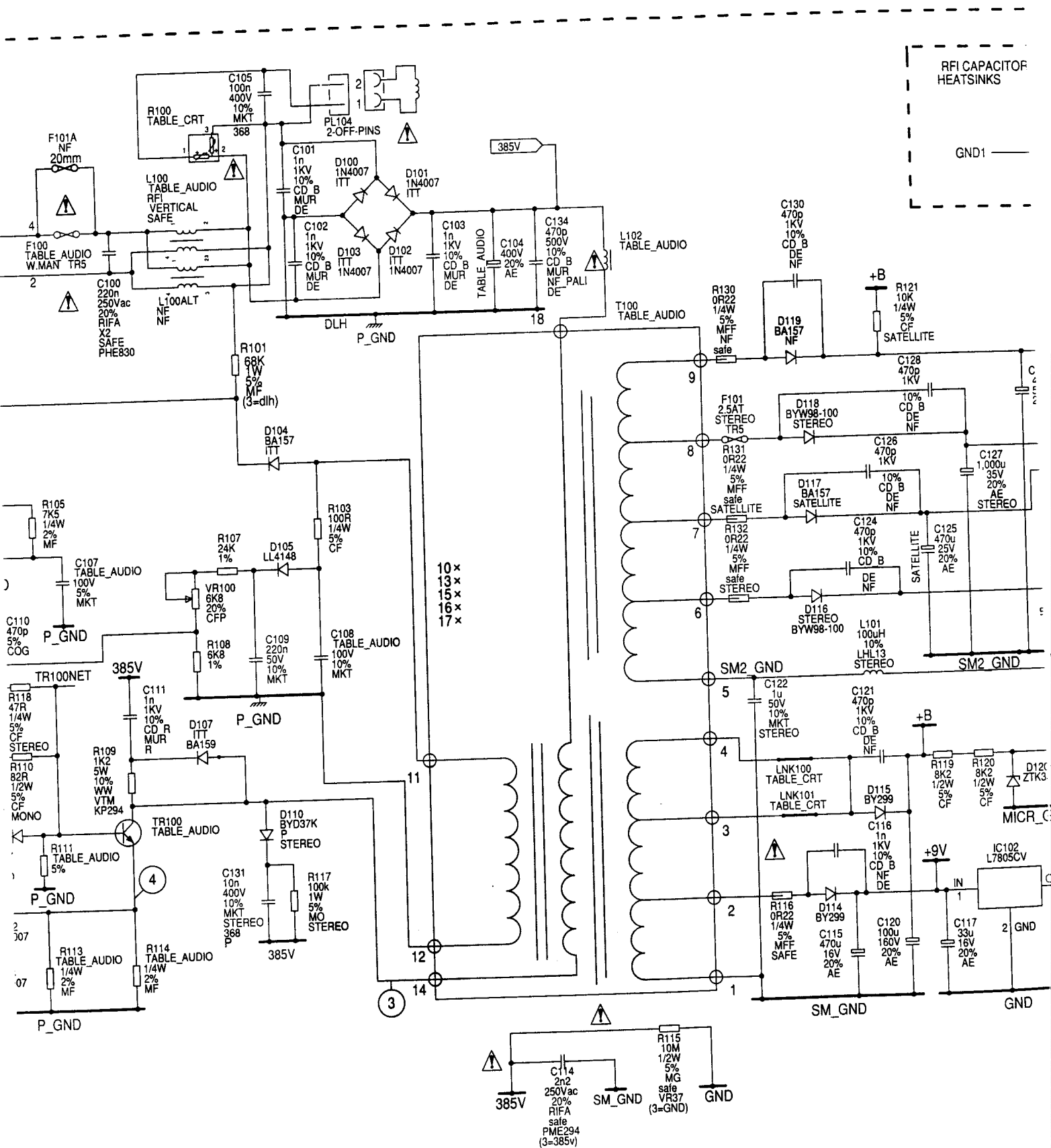
Deflection H+V



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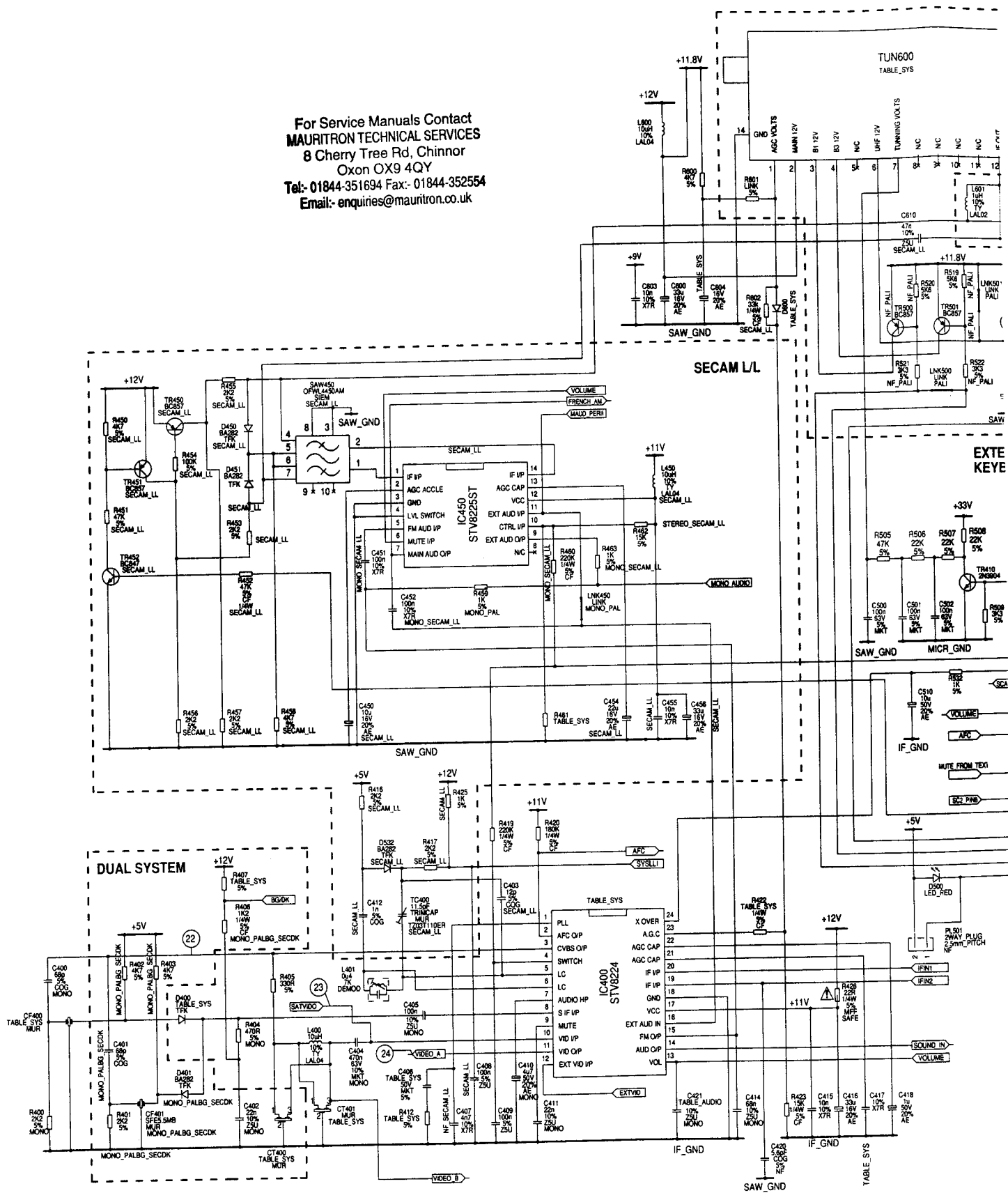
Power Supply

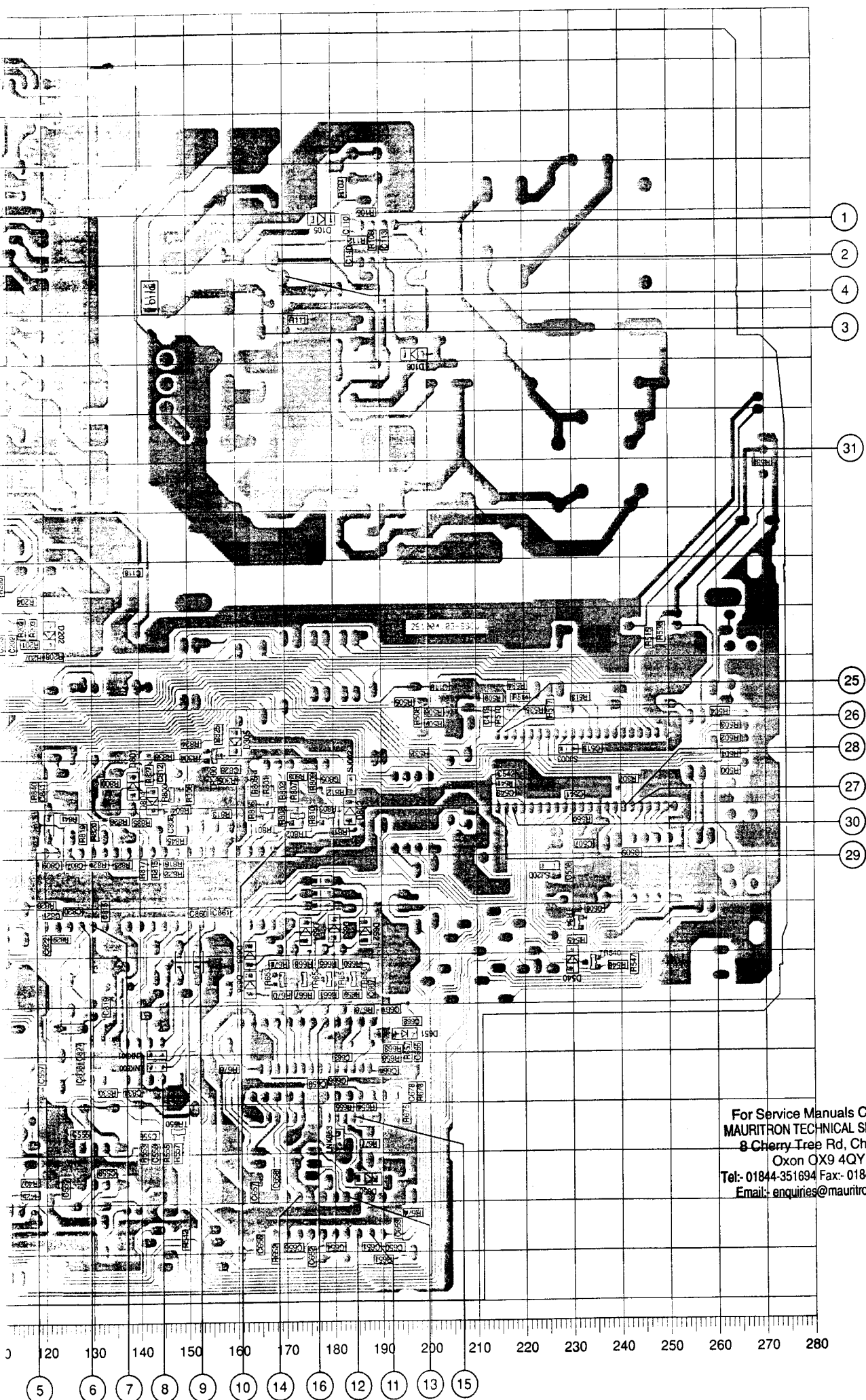




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Chassis Board

Coordinates of the components on the solder side
(bottom side)

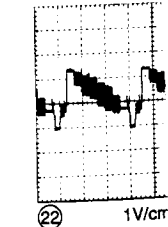
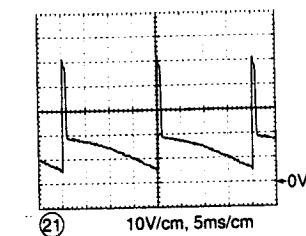
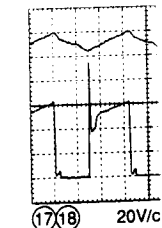
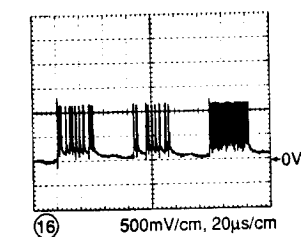
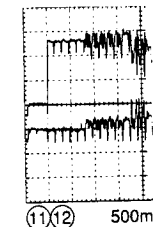
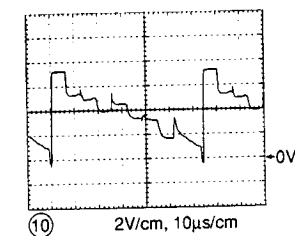
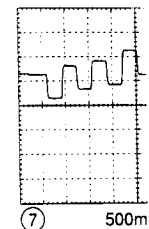
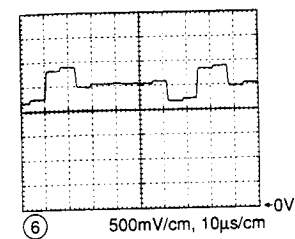
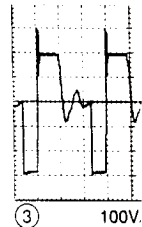
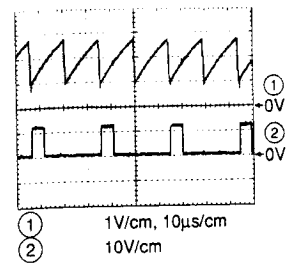
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C110	189	221	C655	170	11	D656	168	65	R463	106	110	R667	179	62	R827	147	108
C113	197	218	C656	177	10	D801	143	106				R668	179	69	R828	125	81
C118	144	150	C657	168	22				R500	270	108				R829	128	75
C119	208	126	C658	173	24	D802	189	100	R501	270	111	R670	174	62	R830	138	43
C135	65	9	C659	182	44	D804	147	103	R502	270	115	R671	174	69	R835	145	98
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C140	189	215	C661	198	59				R504	268	120	R674	202	17	R840	122	105
C141	12	15	C662	202	57	LNK503	230	103				R675	201	38	R841	130	99
C202	117	135	C663	187	49	LNK653	186	33	R505	201	123						
C203	115	135	C664	197	47	LNK800	148	48	R506	204	120	R676	163	47	R845	152	95
C207	101	137	C665	203	50	LNK801	148	50	R507	207	118	R677	193	32			
						MICR-GND	168	88	R508	207	121	R678	192	59	SAW	68	81
C305	21	120	C666	186	45				R509	220	123	R700	26	35			
C320	14	142	C667	193	64	R106	193	224				R701	28	40	SJ001	72	97
C321	11	138	C678	202	42	R107	188	229	R510	221	120				SJ002	189	106
C400	89	43	C701	18	20	R108	194	218	R513	239	119	R702	32	40	SJ003	236	113
C401	93	43	C702	22	28	R111	179	202	R514	226	123	R703	19	22	SJ004	68	57
						R112	191	218	R515	253	135	R704	17	25	SJ200	232	88
C402	66	32	C703	28	31				R517	232	121	R710	23	39			
C403	81	30	C704	24	28	R201	121	133				R712	24	37	SJ400	85	30
C407	99	48	C706	53	48	R202	121	138	R518	36	103						
C411	77	52	C805	185	107	R203	121	135	R519	27	101	R713	26	33	TEXT	166	15
C412	82	41	C806	152	98	R204	121	144	R520	26	103	R714	23	25			
						R205	115	148	R521	31	106	R716	46	49	TR300	160	112
C414	74	61	C807	131	90				R522	31	103	R717	53	46	TR450	71	109
C415	76	64	C809	126	90	R207	121	127				R718	50	47	TR451	77	108
C417	88	64	C812	149	108	R208	130	135	R523	42	110				TR452	77	118
C419	219	120	C815	137	80	R304	155	112	R530	255	137	R721	102	111	TR500	25	96
C420	85	83	C819	137	61	R305	163	107	R531	277	172	R722	60	49			
						R306	155	104	R532	204	112	R800	139	107			
C451	111	110	C820	130	80				R534	225	126	R801	172	106	TR501	29	96
C452	106	66	C821	126	80	R307	248	106				R802	175	104	TR502	38	96
C455	98	109	C822	125	73	R310	34	143	R535	229	121				TR540	241	68
C505	249	91	C827	132	51	R400	88	39	R541	222	106	R803	178	108	TR541	237	77
C506	241	80	C828	164	109	R401	93	39	R542	154	12	R804	153	101	TR542	225	68
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C507	239	93	C834	143	43				R546	246	68	R806	168	101	TR550	152	35
C508	236	87	C836	132	47	R403	97	28				R807	177	104	TR650	190	66
C515	241	113	C841	124	105	R404	70	36	R547	249	68				TR651	184	66
C541	237	103	C860	157	80	R405	97	43	R553	145	30	R808	175	99	TR652	179	66
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C555	132	34	D105	184	222	R417	77	31	R600	19	95				TR800	152	104
C556	146	34	D108	203	195	R425	121	22	R601	15	95	R813	162	100	TR801	172	101
C557	123	47	D110	147	207	R450	77	111	R651	196	8	R815	148	89	TR802	178	99
			D202	127	135	R451	78	114	R652	173	9	R816	152	90			
C558	148	30	D305	165	115				R654	192	39	R817	145	89	TR803	184	99
C559	137	26				R453	72	101				R819	132	96			
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C652	180	8	D653	186	76	R459	107	110	R661	184	62						
C653	199	14	D654	179	75	R461	99	100	R663	198	51	R825	161	116			
C654	186	10	D655	168	71	R462	99	105	R665	184	69	R826	140	99			

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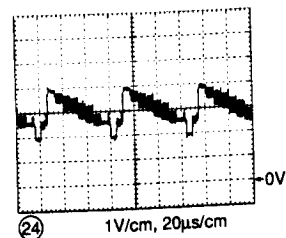
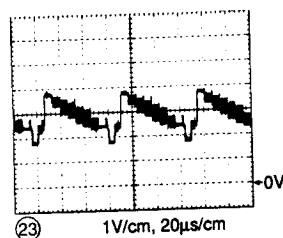
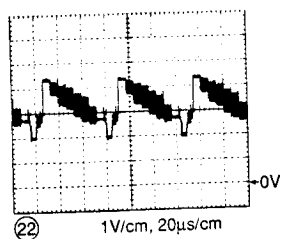
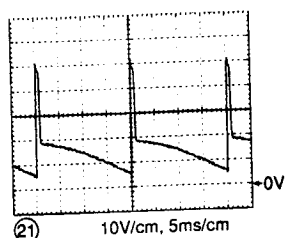
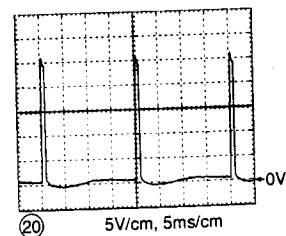
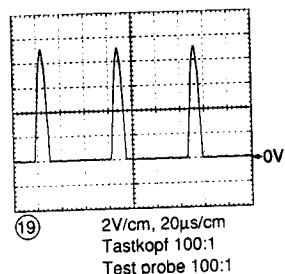
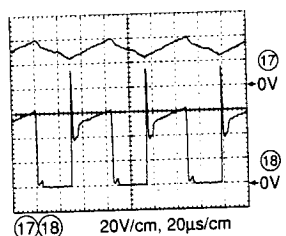
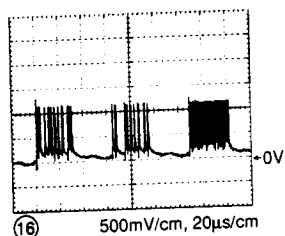
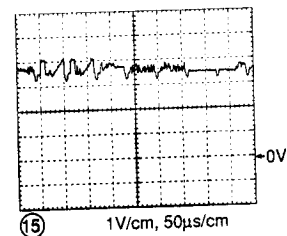
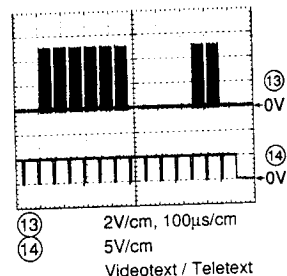
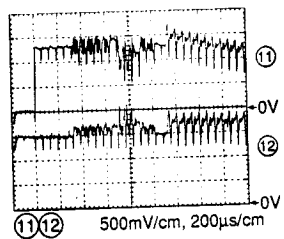
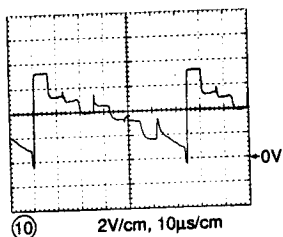
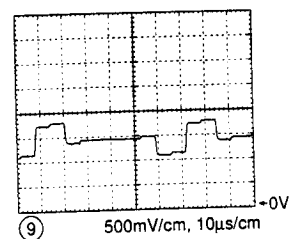
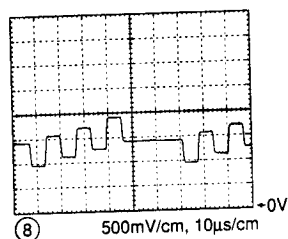
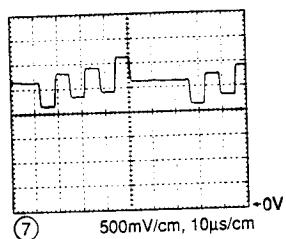
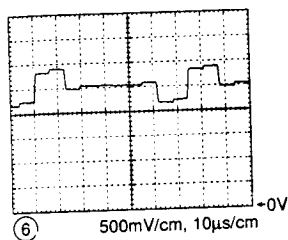
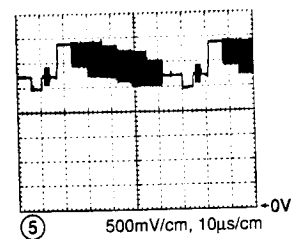
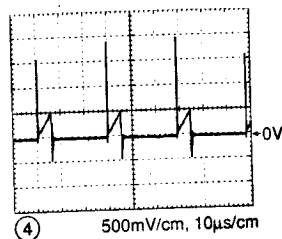
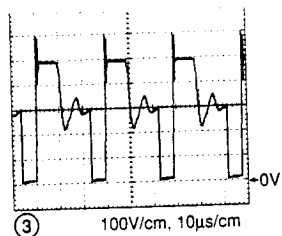
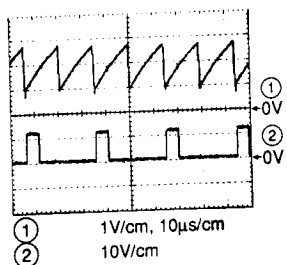
Oscillograms

the solder side

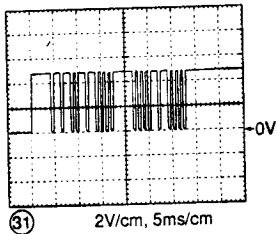
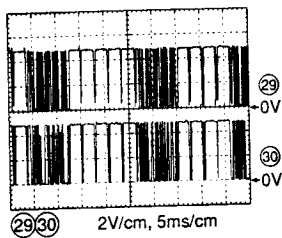
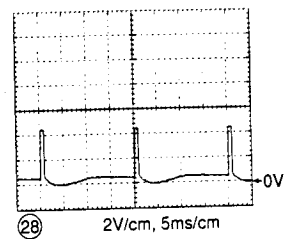
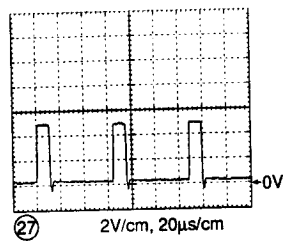
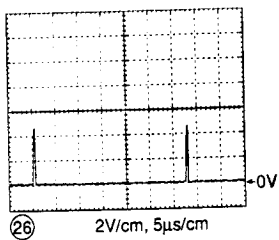
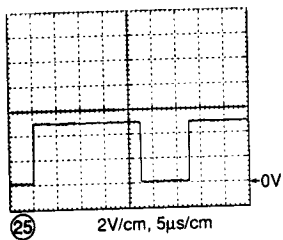
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D801	143	106				R668	179	69	R828	125	81
			R500	270	108				R829	128	75
D802	189	100	R501	270	111	R670	174	62			
D804	147	103	R502	270	115	R671	174	69	R830	138	43
DST-PSU	105	171	R503	270	117	R673	204	42	R835	145	98
			R504	268	120	R674	202	17	R836	150	112
LNK503	230	103				R675	201	38	R840	122	105
LNK653	186	33	R505	201	123				R841	130	99
LNK800	148	48	R506	204	120	R676	163	47			
LNK801	148	50	R507	207	118	R677	193	32	R845	152	95
MICR-GND	168	88	R508	207	121	R678	192	59			
			R509	220	123	R700	26	35	SAW	68	81
						R701	28	40			
R106	193	224	R510	221	120				SJ001	72	97
R107	188	229	R513	239	119	R702	32	40	SJ002	189	106
R108	194	218	R514	226	123	R703	19	22	SJ003	236	113
R111	179	202	R515	253	135	R704	17	25	SJ004	68	57
R112	191	218	R517	232	121	R710	23	39	SJ200	232	88
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R201	121	133	R518	36	103				SJ400	85	30
R202	121	138	R519	27	101	R713	26	33			
R203	121	135	R520	26	103	R714	23	25	TEXT	166	15
R204	121	144	R521	31	106	R716	46	49			
R205	115	148	R522	31	103	R717	53	46	TR300	160	112
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R207	121	127	R523	42	110				TR451	77	108
R208	130	135	R530	255	137	R721	102	111	TR452	77	118
R304	155	112	R531	277	172	R722	60	49	TR500	25	96
R305	163	107	R532	204	112	R800	139	107			
R306	155	104	R534	225	126	R801	172	106	TR501	29	96
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R307	248	106	R535	229	121				TR540	241	68
R310	34	143	R541	222	106	R803	178	108	TR541	237	77
R400	88	39	R542	154	12	R804	153	101	TR542	225	68
R401	93	39	R545	237	73	R805	169	106			
R402	89	30	R546	246	68	R806	168	101	TR550	152	35
						R807	177	104	TR650	190	66
R403	97	28	R547	249	68				TR651	184	66
R404	70	36	R553	145	30	R808	175	99	TR652	179	66
R405	97	43	R555	150	30	R809	181	106	TR653	174	66
R407	121	24	R557	152	30	R810	181	99			
R412	99	56	R560	239	98	R811	187	96	TR700	46	45
						R812	186	104	TR701	104	103
R416	80	34	R600	19	95				TR800	152	104
R417	77	31	R601	15	95	R813	162	100	TR801	172	101
R425	121	22	R651	196	8	R815	148	89	TR802	178	99
R450	77	111	R652	173	9	R816	152	90			
R451	78	114	R654	192	39	R817	145	89	TR803	184	99
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R453	72	101	R655	187	39						
R454	76	104	R657	201	50	R820	135	97			
R455	66	110	R658	198	49	R821	136	90			
R456	74	109	R659	189	62	R822	152	88			
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R458	60	114	R661	184	62						
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Oscillograms

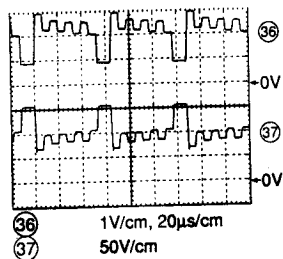
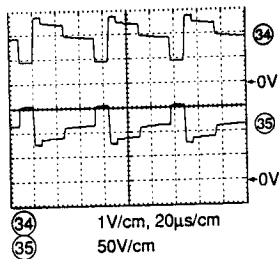
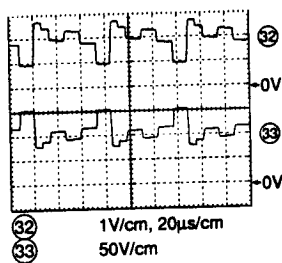


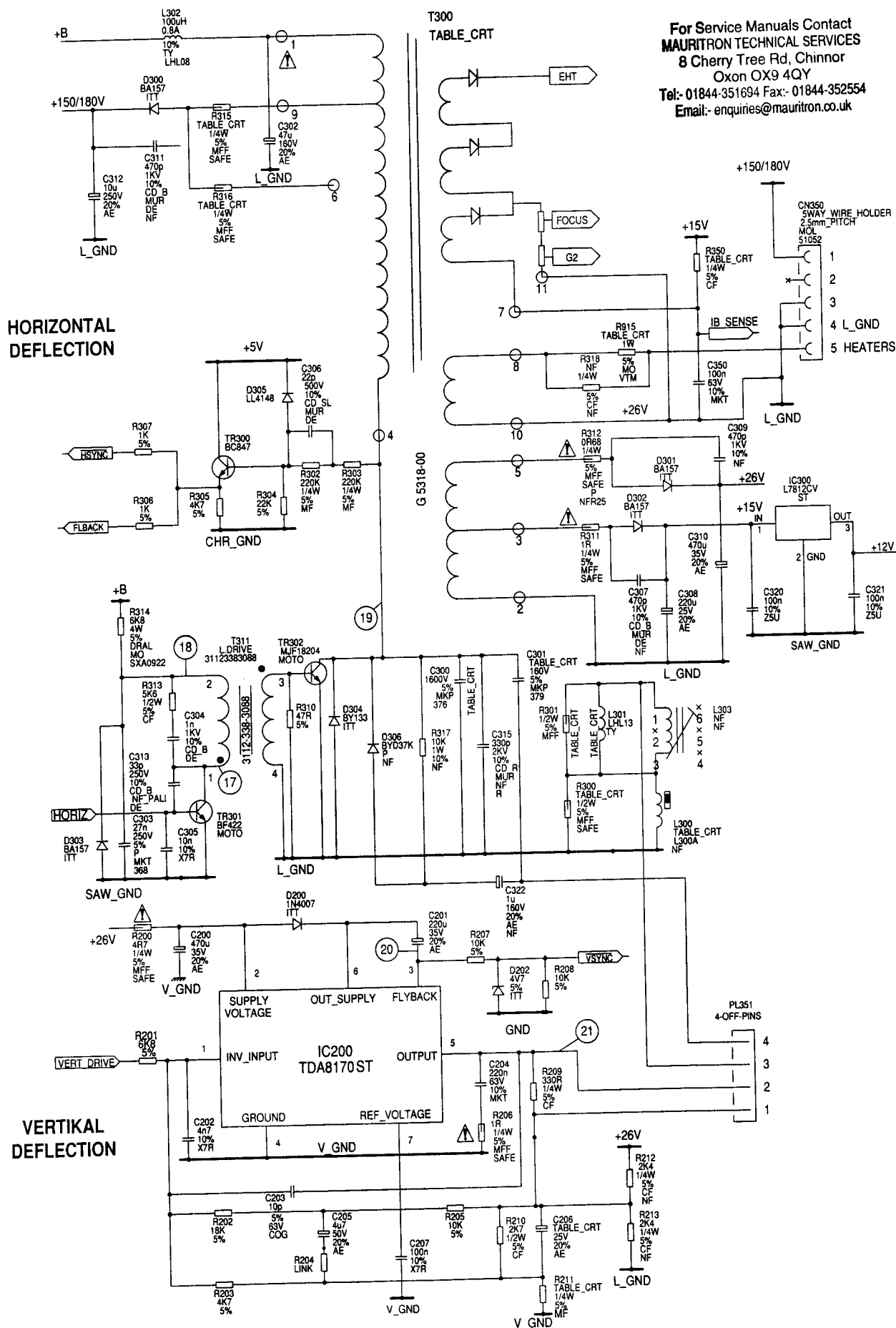
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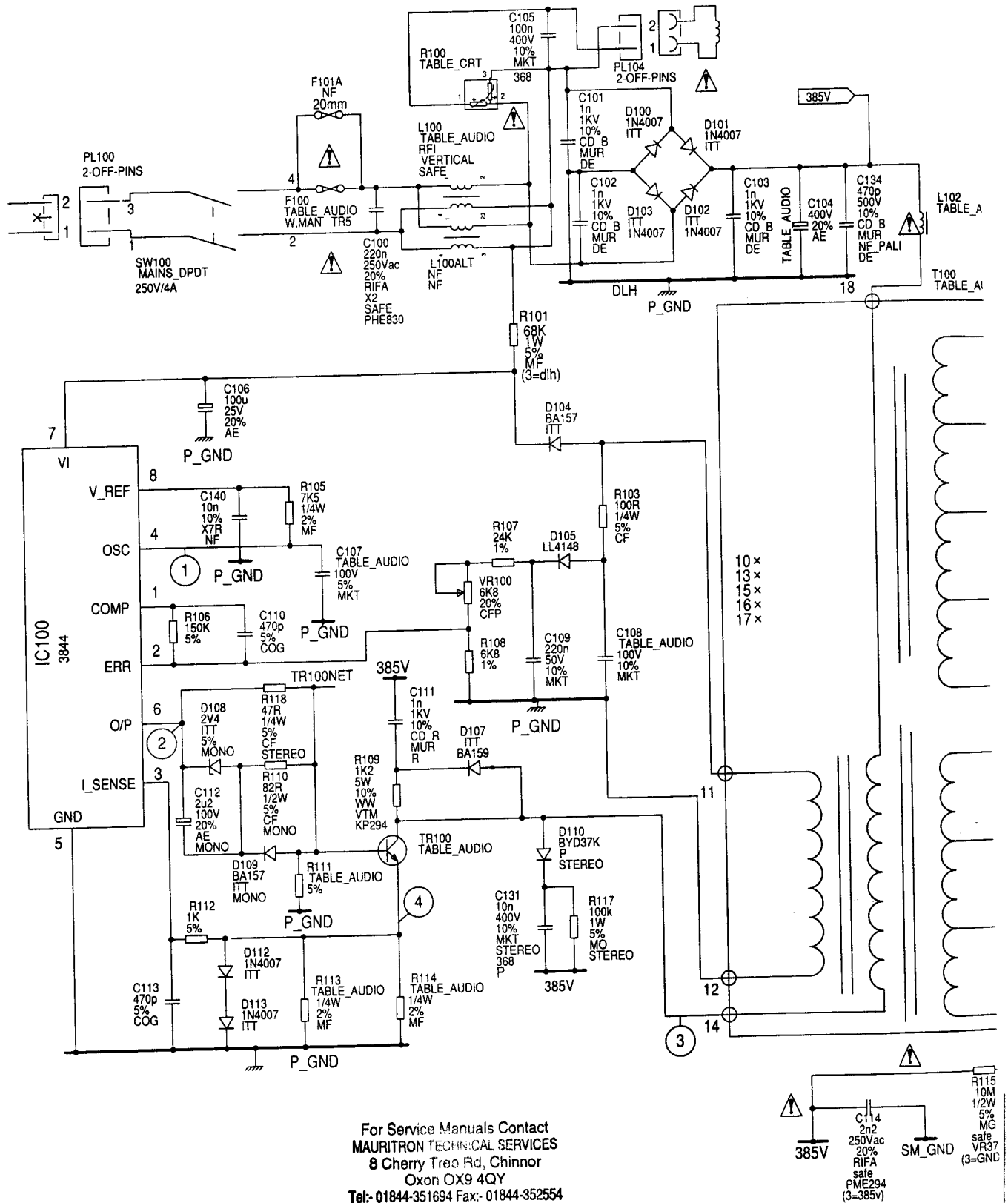
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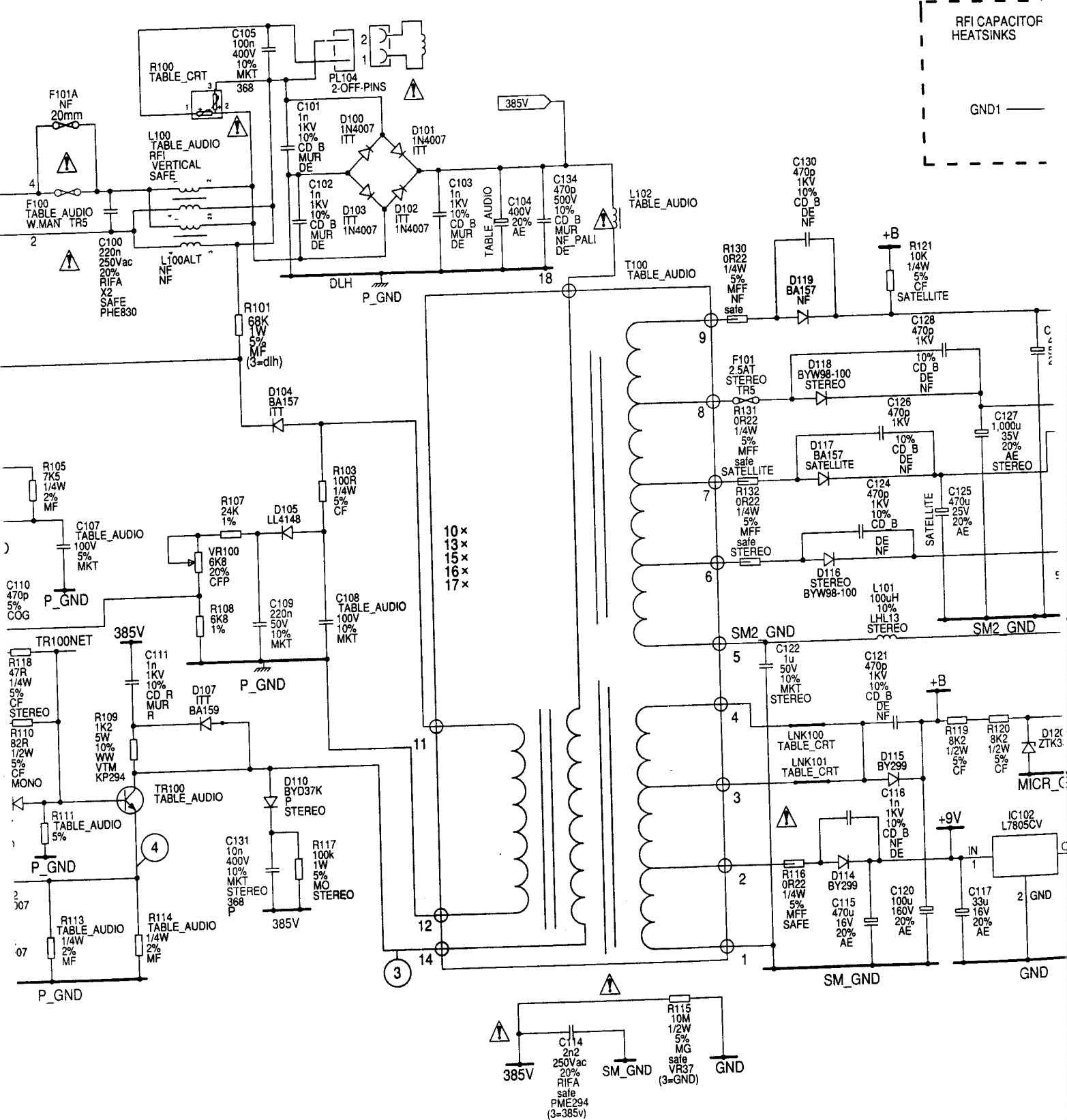
Oscillograms CRT Panel

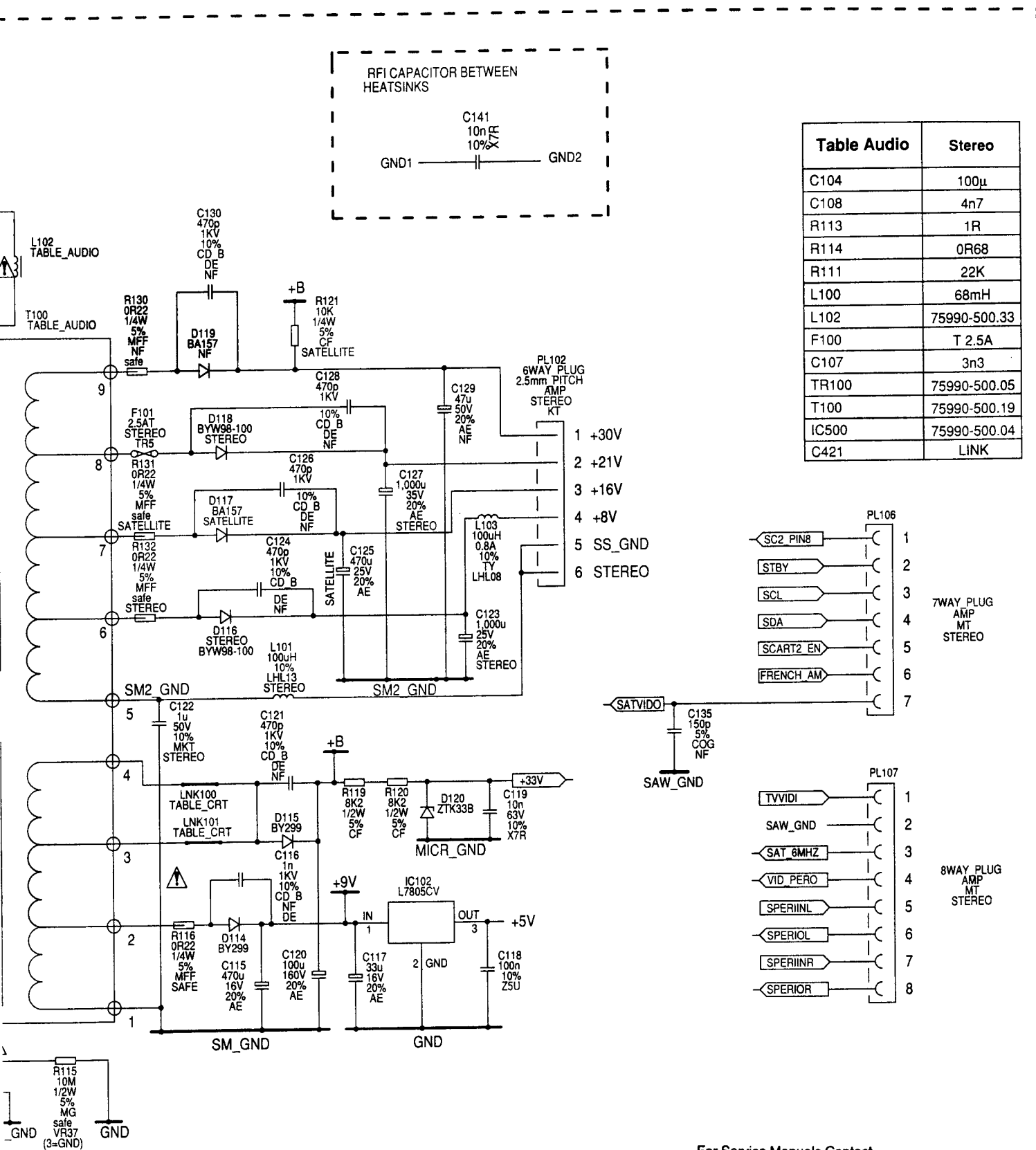




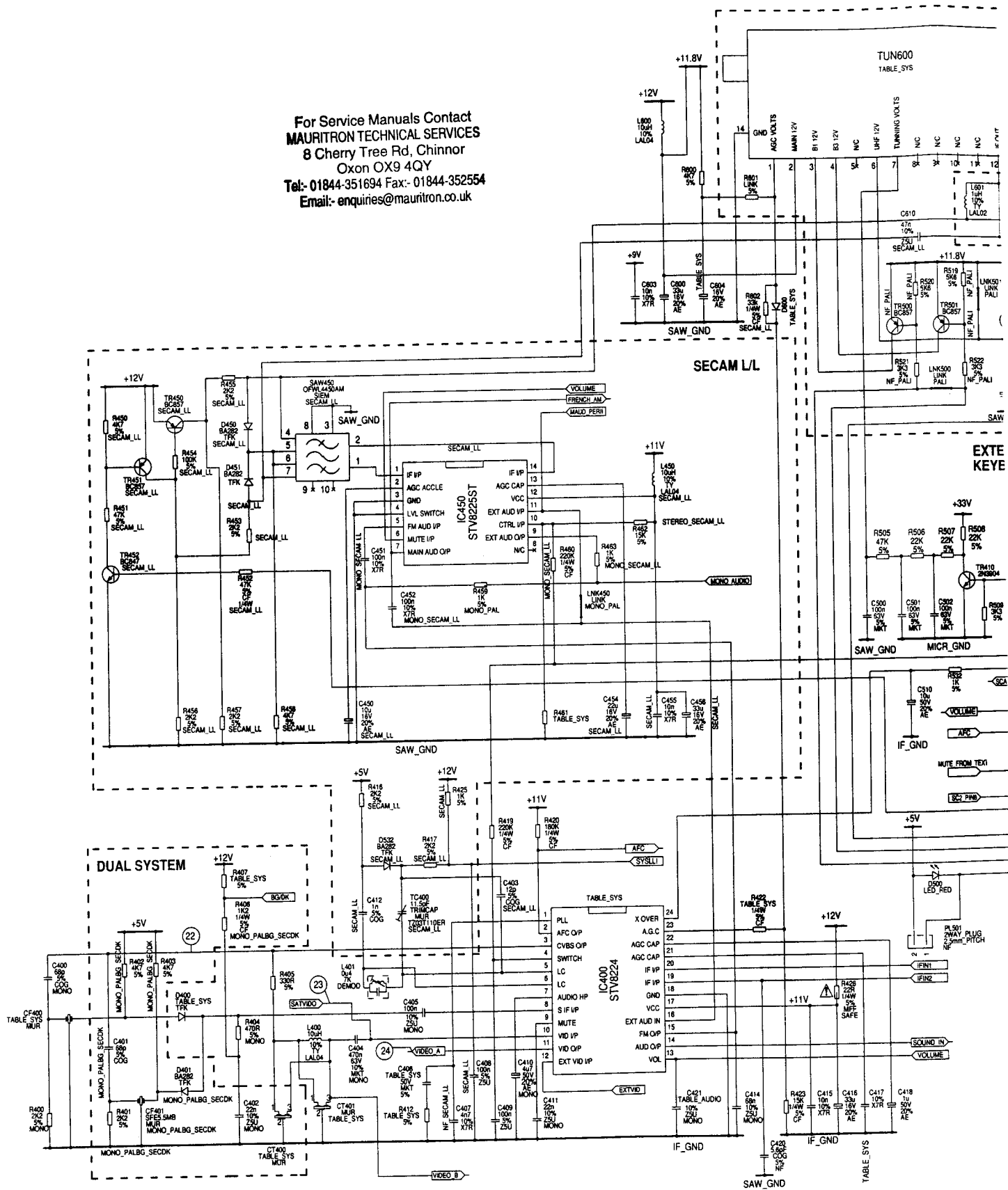
Power Supply

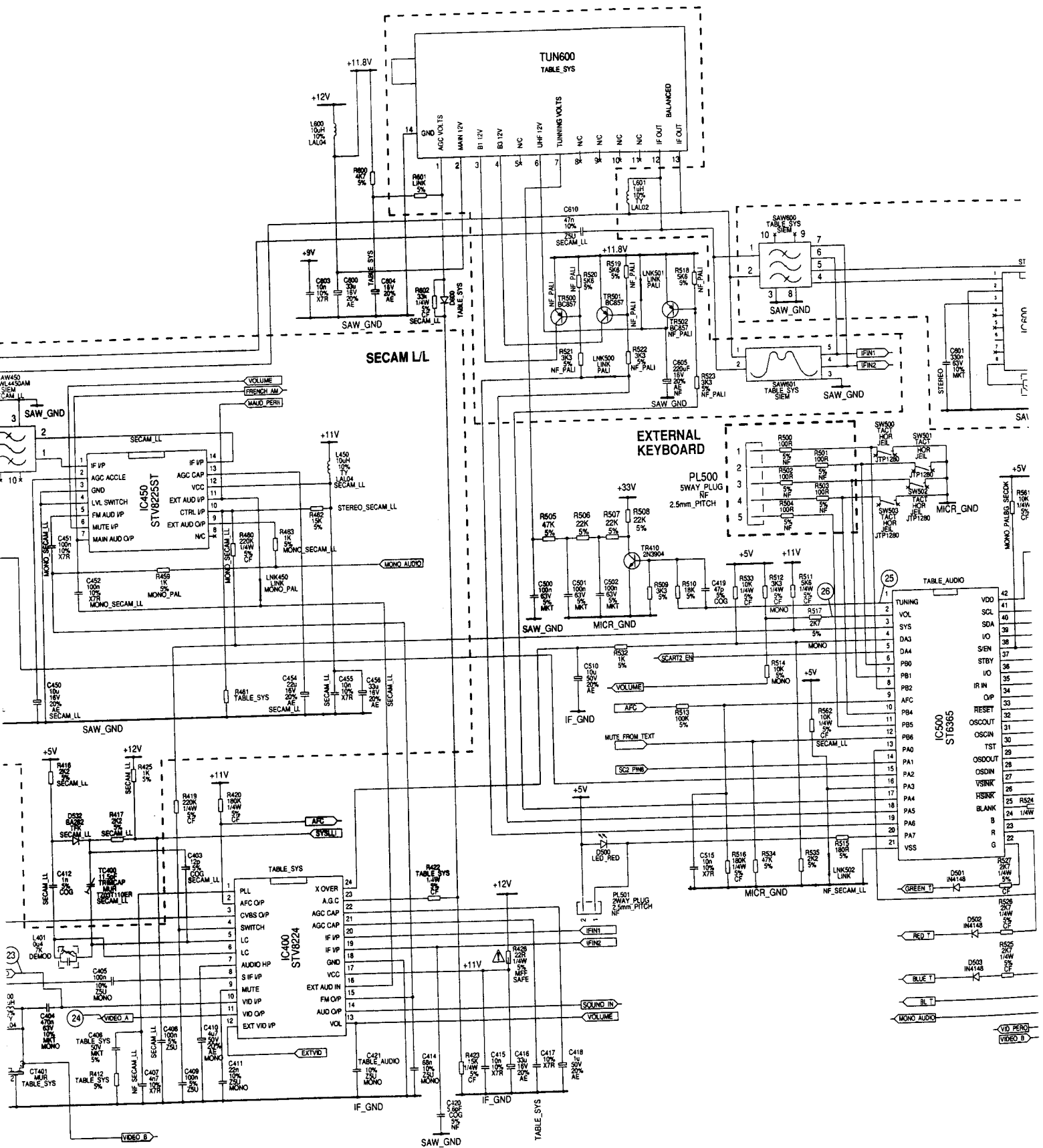


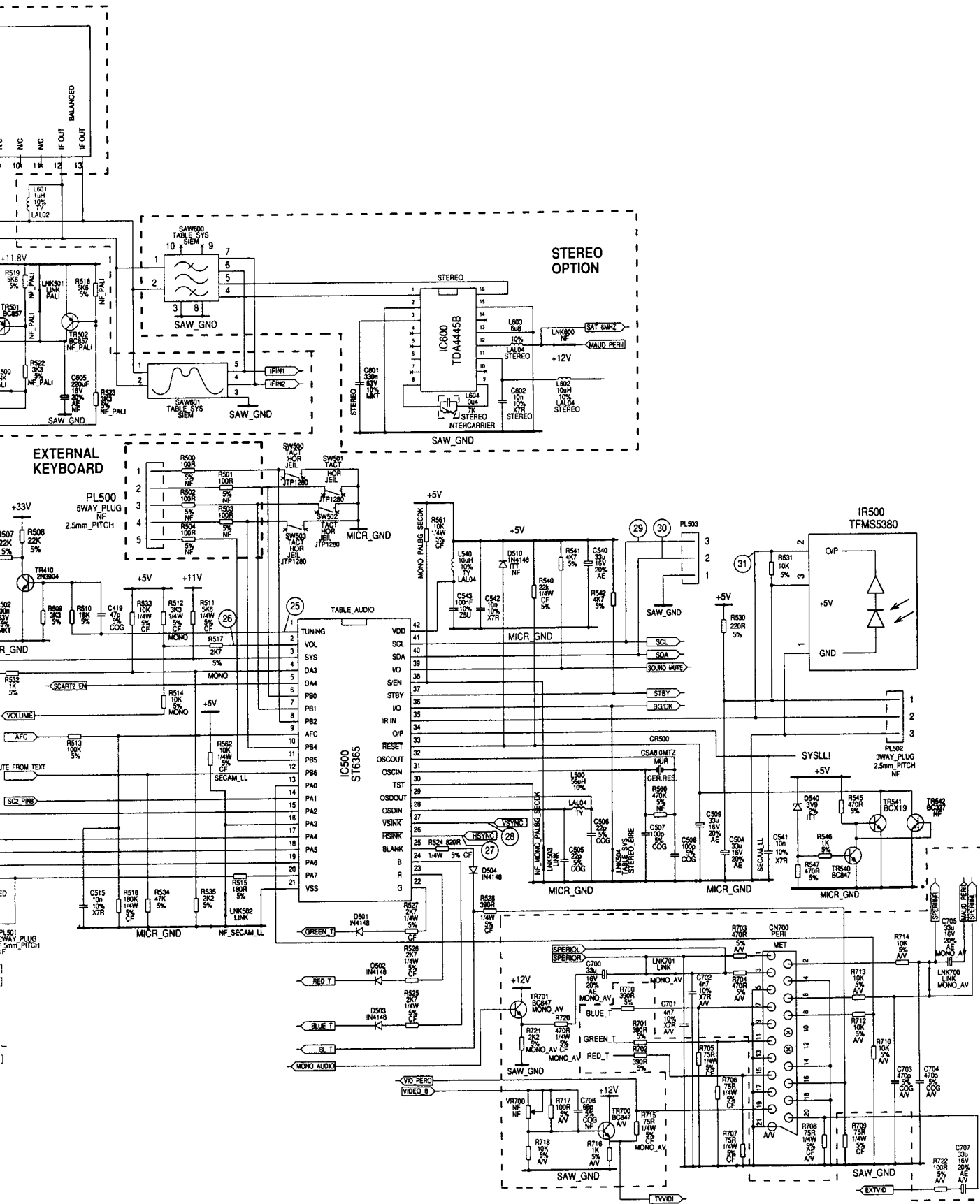




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 Email: enquiries@mauriton.co.uk

Y/C Processing

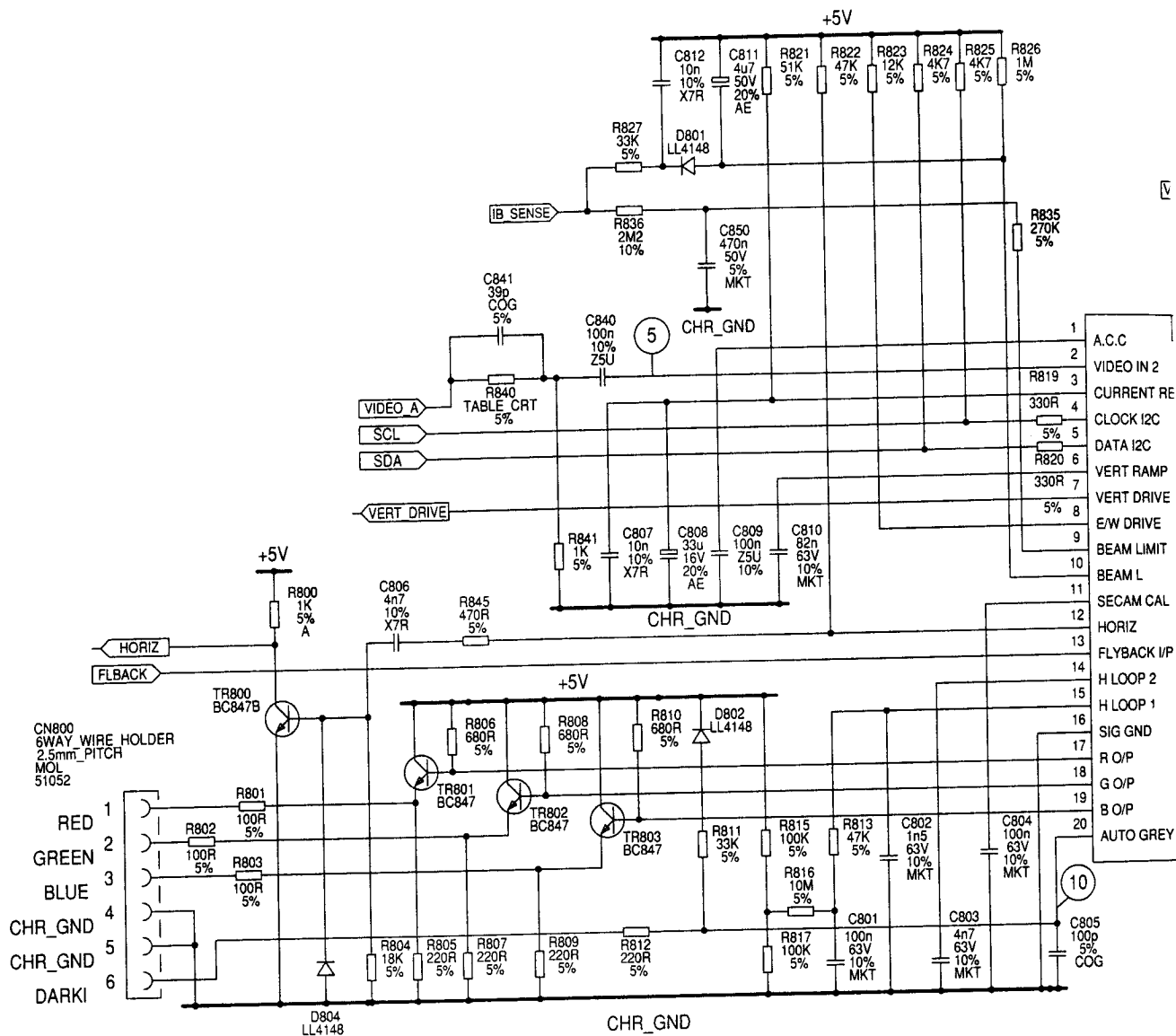
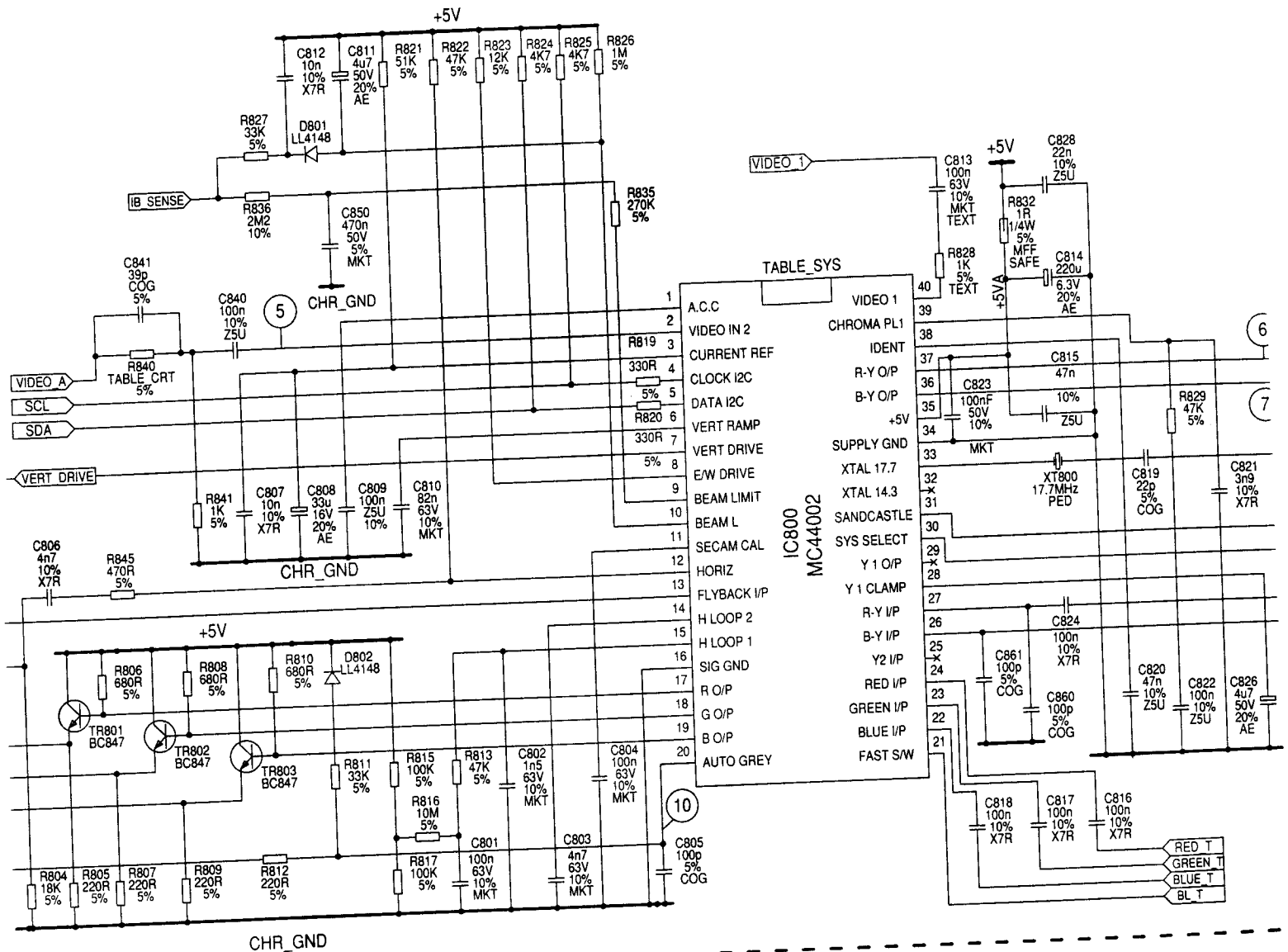
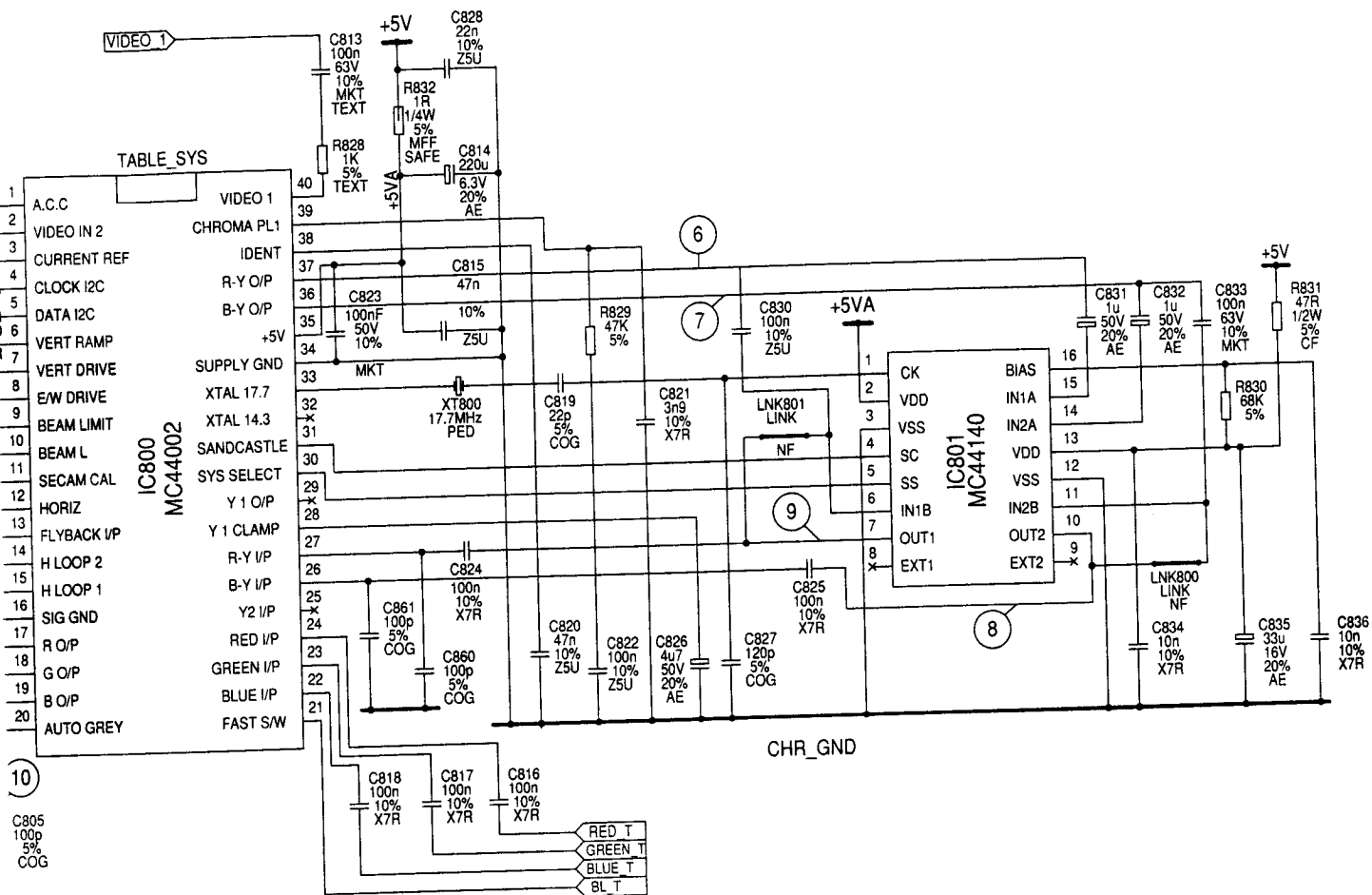


Table Sys.	Stereo Pal B/G	Stereo Pal I	Stereo Secam LL	Stereo Eire
SAW601	NF	NF	NF	NF
D400	NF	NF	NF	NF
CT400	NF	NF	TPS 6.5MB	NF
CT401	TPS 5.5MB	TPS 6.0MB	TPS 5.5MB	TPS 6.0MB
TUN600	SALCOMP 1590R	SALCOMP 1490R	SALCOMP 1590R	SALCOMP 1590R
CF400	NF	NF	NF	NF
IC800	44007	44007	44002	44007
SAW600	G3270	J3252	K3261	J3252
D600	—o—o—	—o—o—	1N4148	—o—o—
R461	NF	NF	10K	NF
C406	680n	680n	100n	680n
R412	68R	68R	330R	68R
IC400	STV8224	STV8224	STV8224A	STV8224
C417	2n2	2n2	47n	2n2
R422	100R	100R	1K	100R
R407	NF	NF	NF	4K7
LNK504	—o—o—	—o—o—	—o—o—	NF

For Service Manuals Contact
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 8 Cherry Tree Rd, Chinnor
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 Tel: 01844-351694 Fax: 01844-352554
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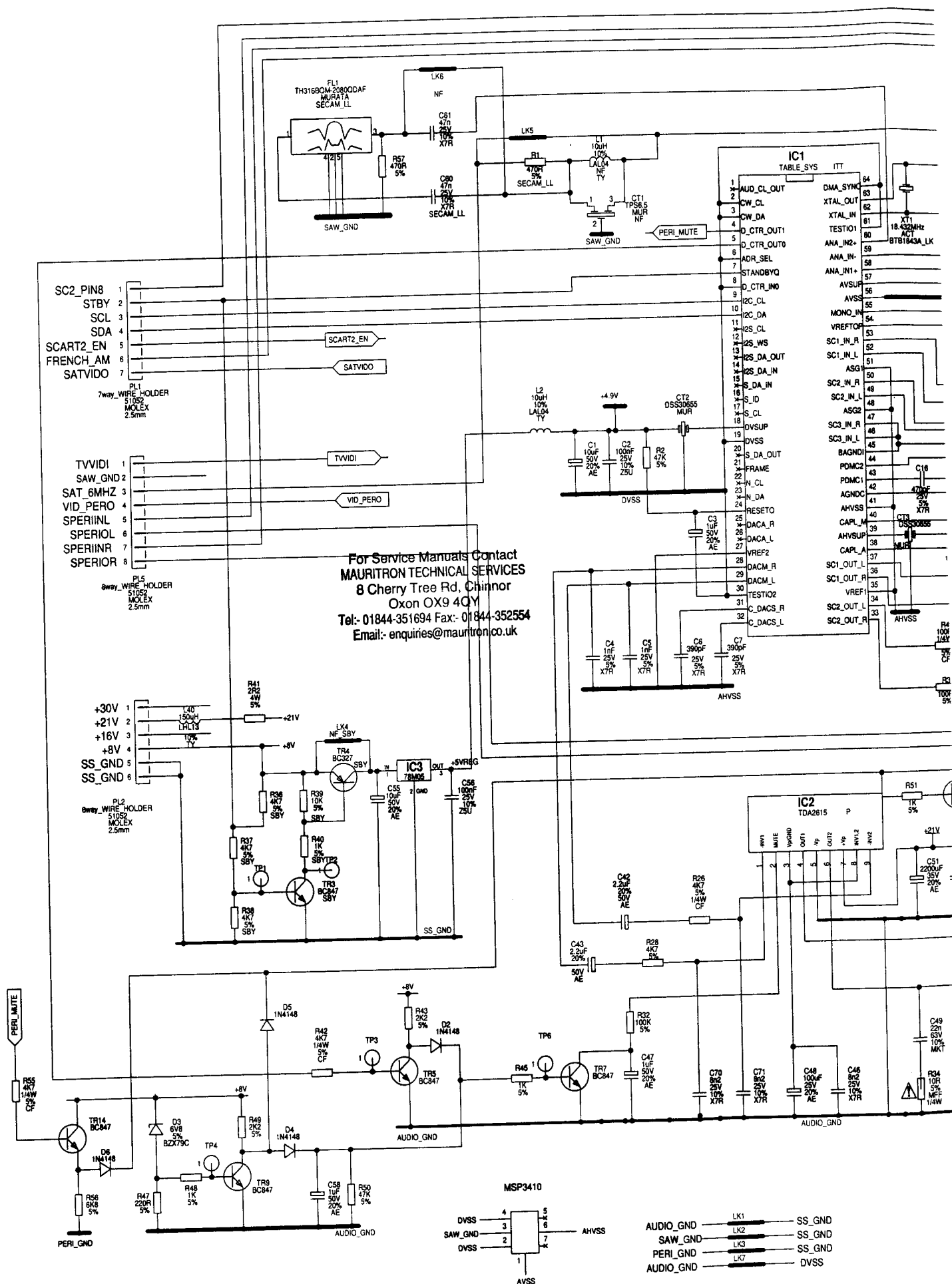


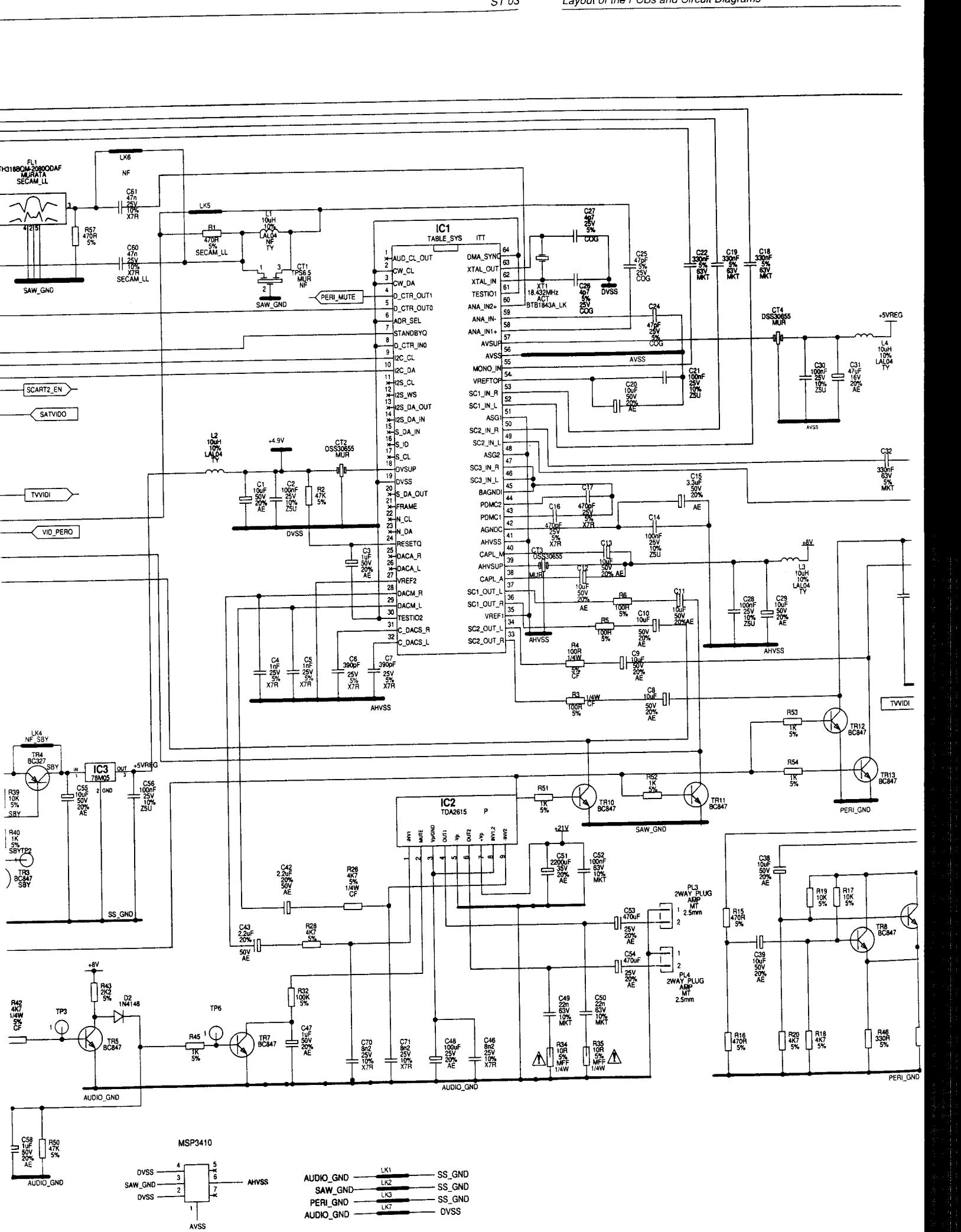
LL	Stereo Eire
	NF
	NF
IB	NF
IB	TPS 6.0MB
P	SALCOMP 1590R
	NF
	44007
	J3252
	-O-O-
	NF
	680n
	68R
A	STV8224
	2n2
	100R
	4K7
	NF

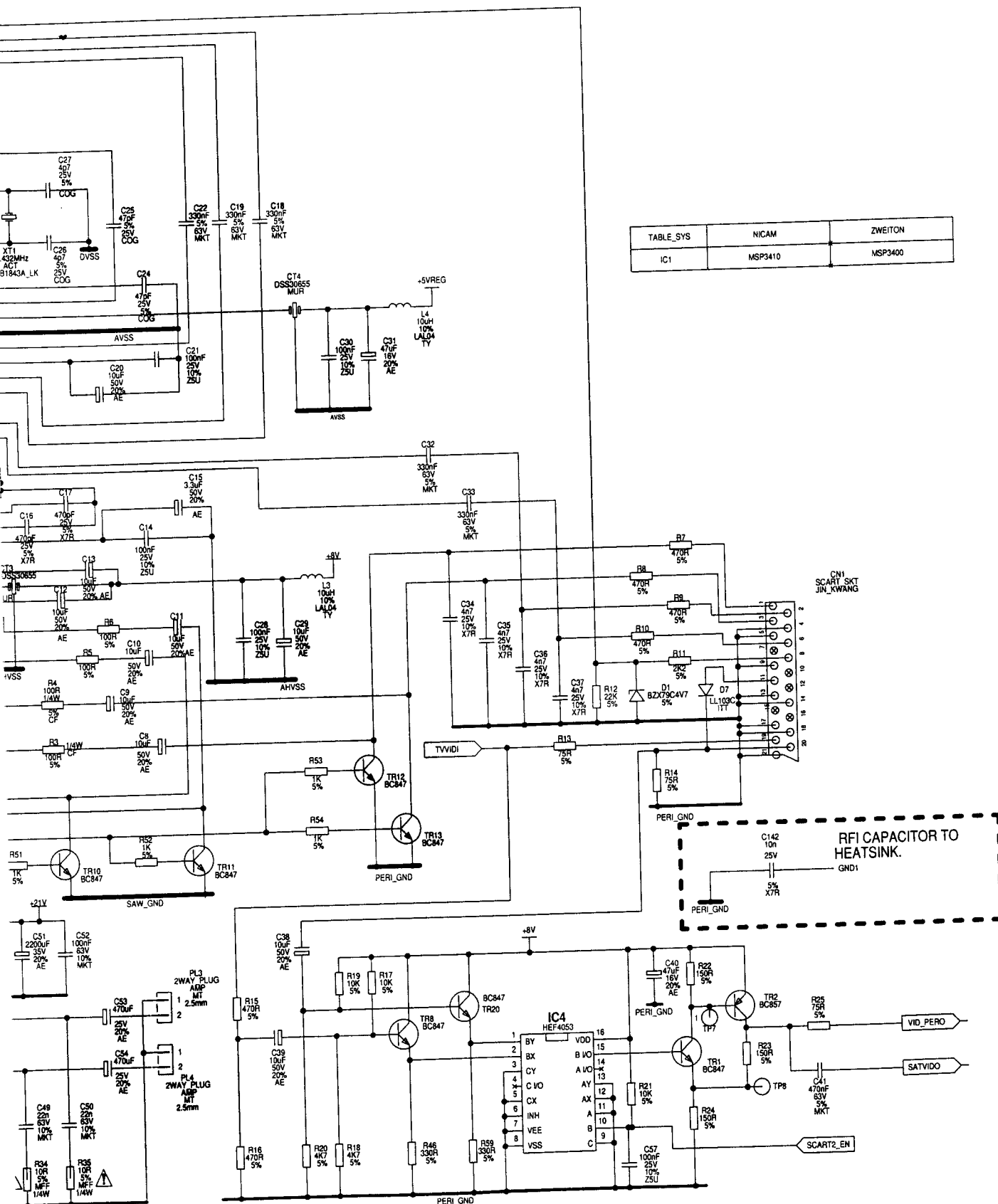


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 Email:- enquiries@mauriton.co.uk

Audio Board





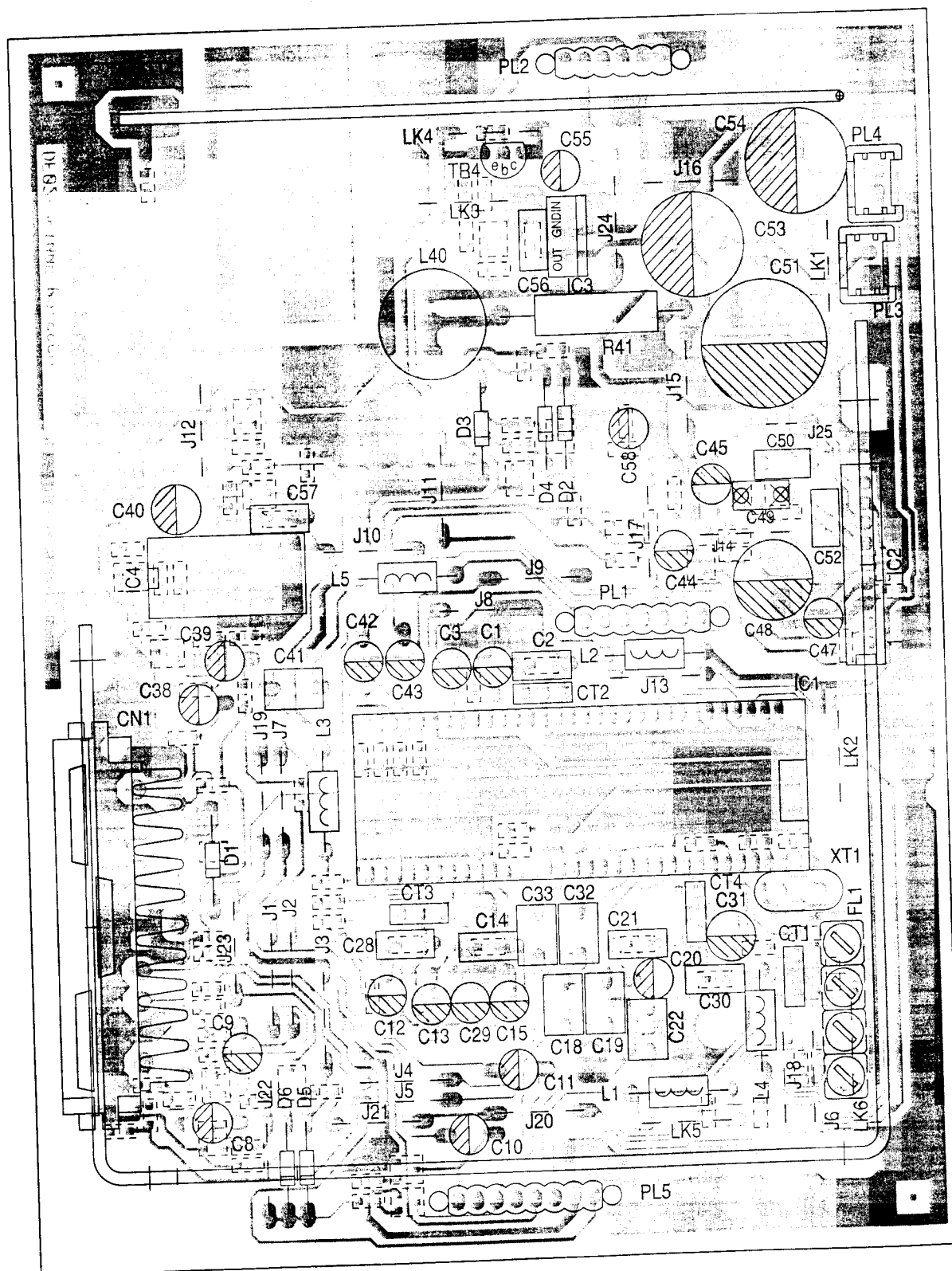


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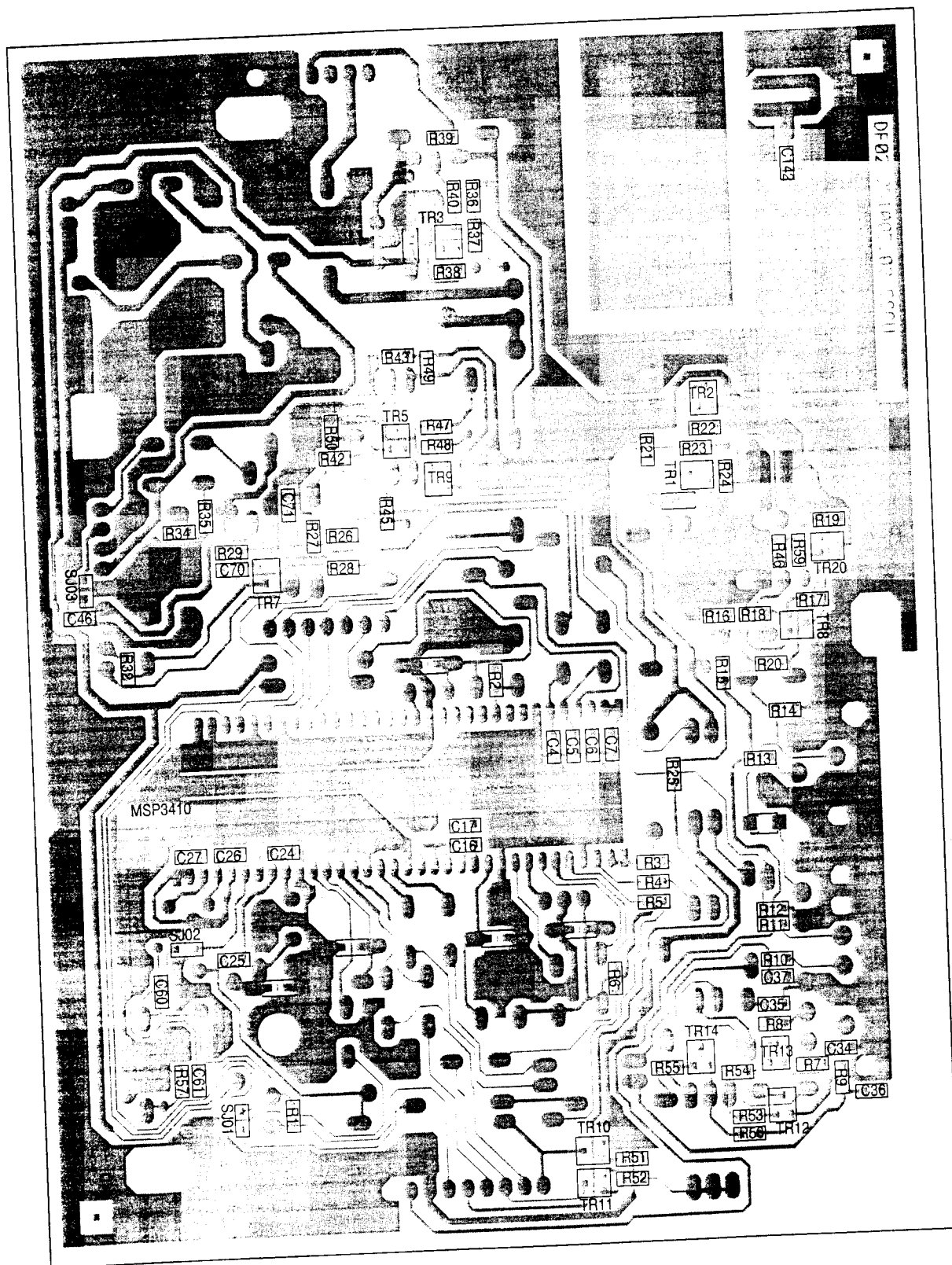
Audio Board

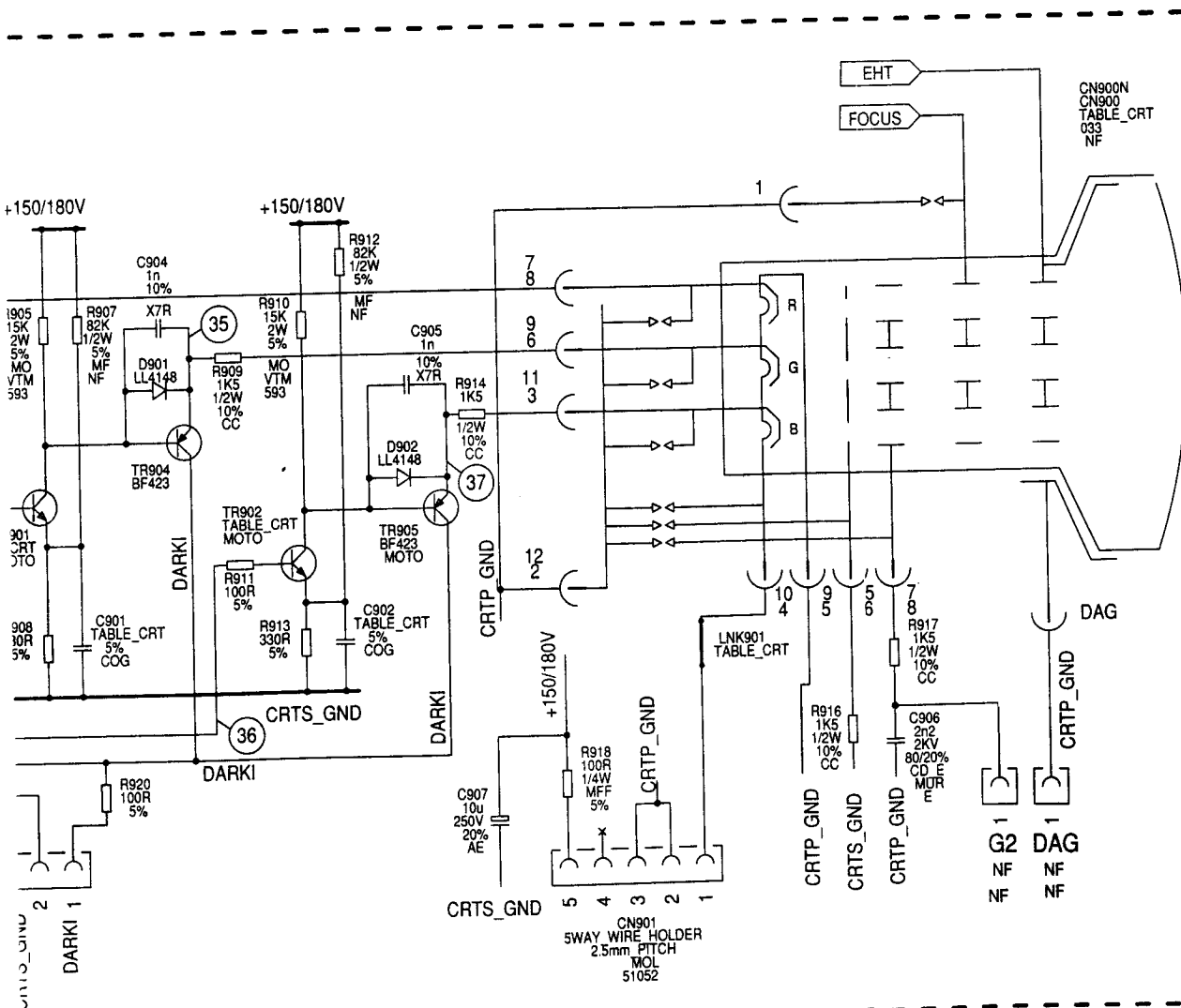
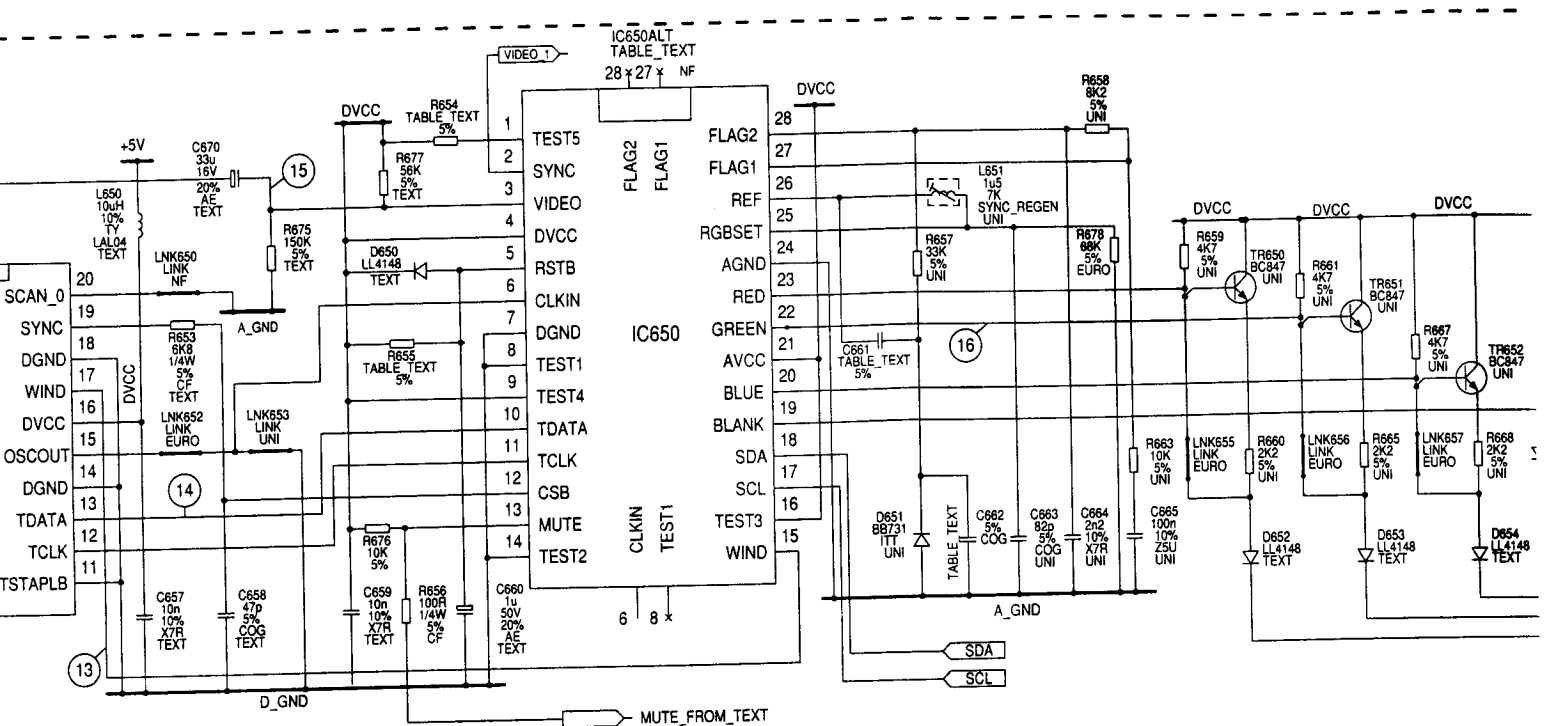
Component side, top view

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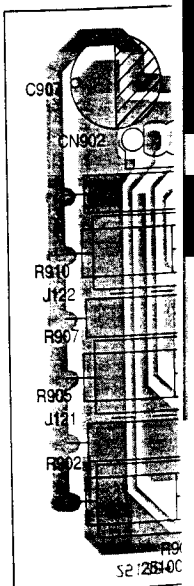


Solder side, bottom view





20"	C 300	C :
CHUNGHWA 510 UFB 22 TC05	9n53 1600V 5%	430n
SAMSUNG A 48 ECR 11X60	9n53 1600V 5%	470n
21"	C 300	C :
CHUNGHWA A 51 AEZ 90X	8n66 1600V 5%	390n
SAMSUNG A 51 EER 11X38	8n66 1600V 5%	390n
HUA FEI A 51 ECV 51X01	7n15 1600V 5%	316n



Solder

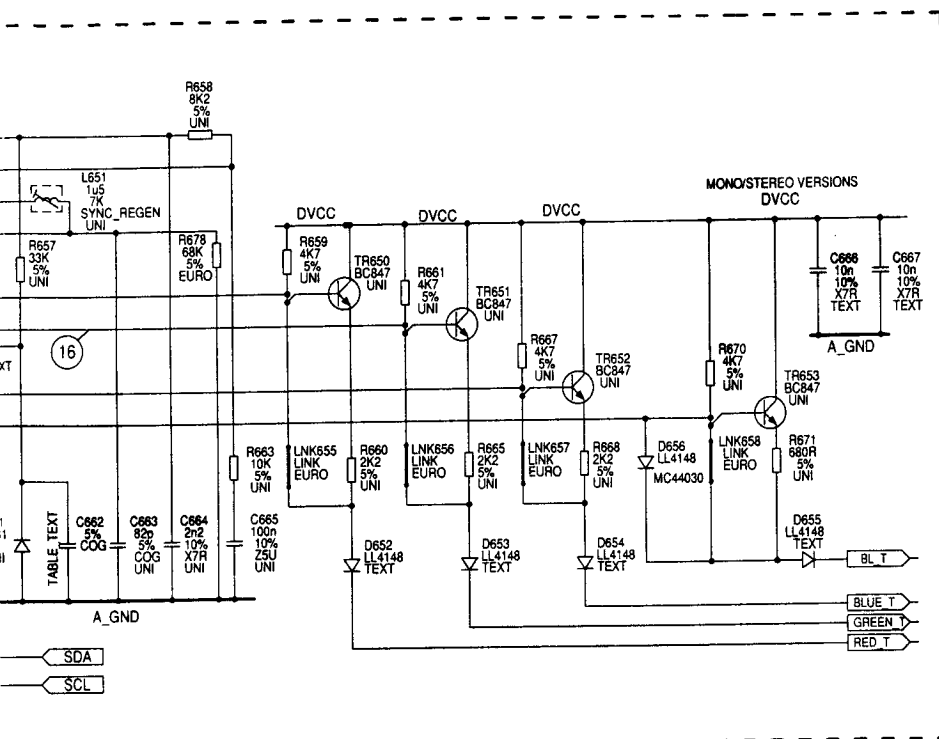


Table Text	EURO	UNI
IC650	CF702000	CF70095ANF
R655	10K	100K
C662	—o—o—	10p
R654	—o—o—	33K
C661	10n X7R	270p CCG

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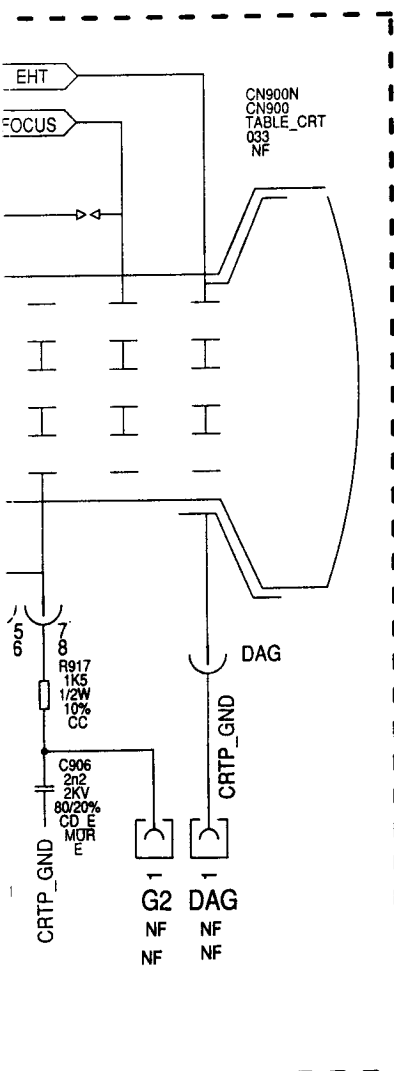
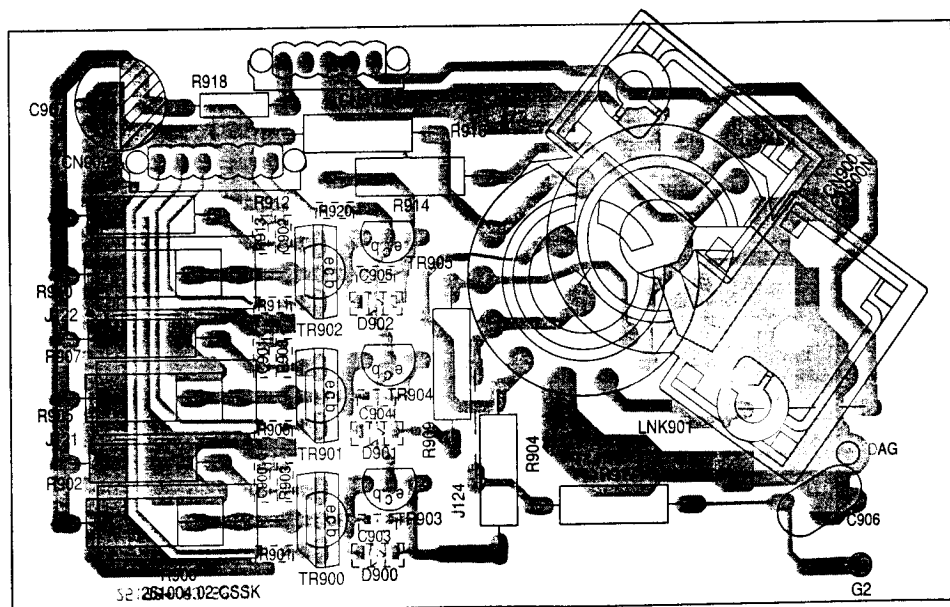


Table CRT

20"	C 300	C 301	L 300	L 301	R 301	R 316	R 915	LNK 901	CN 900	R 211	C 206	LNK 100	LNK 101	+ B
CHUNGHWA 510 UFB 22 TC05	9n53 1600V 5%	430n 160V 5%	35μH	—	—o—o—	—	0R82	—o—o—	75990-300.76	1R	2200μ 25V	—o—o—	—	113V
SAMSUNG A 48 ECR 11X60	9n53 1600V 5%	470n 160V 5%	65μH	—	—o—o—	—	0R82	—o—o—	75990-300.76	1R	2200μ 25V	—o—o—	—	115V
21"	C 300	C 301	L 300	L 301	R 301	R 316	R 915	LNK 901	CN 900	R 211	C 206	LNK 100	LNK 101	+ B
CHUNGHWA A 51 AEZ 90X	8n66 1600V 5%	390n 160V 5%	65μH	—	—o—o—	—	0R68	—o—o—	75990-300.76	1R	1000μ 25V	—o—o—	—	110V
SAMSUNG A 51 EER 11X38	8n66 1600V 5%	390n 160V 5%	80μH	—	—o—o—	—	0R82	—o—o—	75990-300.76	0R82	1000μ 25V	—o—o—	—	113.5V
HUA FEI A 51 ECV 51X01	7n15 1600V 5%	316n 160V 5%	65μH	150μH	820R	—	2R7	—	75990-300.75	1R	1000μ 25V	—o—o—	—	112.5V



Solder side, bottom view

GRUNDIG

Ersatzteilliste Spare Parts List



Ⓢ Btx * 32700 #

GT 2005

5 / 96

ERSETZT AUSGABE 12/95 SACH-NR. / PART NO.: 77250-056.61

SUBSTITUTE EDITION 12/95 BESTELL-NR. / ORDER NO.: G.CC 1261 GB SCHWARZ/BLACK

POS. NR. POS. NO.	ABB. FIG.	SACHNUMMER PART NUMBER	ANZ. QTY.	BEZEICHNUNG DESCRIPTION	Ⓢ	Ⓢ
0001.000		75990-300.54		FRONT-GEHÄUSE		
0002.000		75990-300.50		EMBLEM-GRUNDIG		
0003.000		75990-200.10		INFRA-ROTFENSTER		
0004.000		75990-200.11		TASTEN		
0005.000		75990-200.05		LAUTSPRECHER		
0006.000		75990-200.13		RUECKWAND		
0008.000		75990-200.12		NETZTASTE		
0009.000		75990-300.53		NETZKABEL		
0010.000		75990-300.74		BILDROEHRE A510UB22TC05(CHUNGAWA)		
0011.000		75990-198.01		PICTURE TUBE A48ECR 11X60 (SAMSUNG)		
0013.000		75990-200.14		REMOTE CONTROL		
0014.000		75990-200.34		ASSEMBLY CLIP		
0019.000		75990-300.63		TUNER UHF		
0019.000		75990-200.89		INSTRUCTION MANUAL		
0019.000		75990-200.89		BEDIENUNGSANLEITUNG		
C 16		75990-200.19		KONDENS. 470PF SMD		
C 17		75990-200.19		KONDENS. 470PF SMD		
C 100		75990-200.83		KONDENSATOR 220NF 250V		
C 101		75990-200.83		KONDENS. 1NF 1KV		
C 102		75990-200.66		KONDENS. 1NF 1KV		
C 103		75990-200.66		KONDENS. 1NF 1KV		
C 104		75990-100.36		ELKO 100UF-80%-20% 400V		
C 105		8531-573-022		MKT 15 0.1 UF 20% 400V		
C 110		75990-200.18		KONDENS. 1NF 1KV		
C 111		75990-200.18		KONDENS. 1NF 1KV		
C 113		8672-160-142		KONDENSATOR 2.2N 250V		
C 114		8672-167-270		SMD KERKO 0805 470PF 5% N		
C 118		8672-167-270		SMD KERKO 0805 0.1UF 10%		
C 119		8672-167-270		SMD KERKO 0805 0.1UF 10%		
C 120		75990-200.18		ELKO 100U 160V		
C 123		75990-200.18		ELKO 25V +80-20% 1000UF		
C 127		75990-200.18		ELKO 1000U 35V		
C 131		75990-200.17		KONDENSATOR 10N 400V 10%		
C 134		75990-200.17		KONDENS. 470PF 500V		
C 141		8672-167-254		SMD KERKO 0805 0.01UF 10%		
C 202		8672-159-122		SMD KERKO 0805 4700PF 10%		
C 203		8672-159-122		SMD KERKO 0805 10PF 5% VT		
C 206		8415-166-147		ELKO 1000UF 25V		
C 300		75990-300.01		KONDENSATOR 8.8N 1600V		
C 300		75990-300.03		KOND. 470NF 160V(SAMSUNG)		
C 301		75990-300.59		KOND. 470NF 160V		
C 301		75990-200.40		KOND. 330NF 160V		
C 301		75990-200.56		KOND. 47UF 250V		
C 302		75990-200.41		KONDENS. 27NF 250V		
C 303		75987-355.97		KONDENS. 1000PF +10% 1000V		
C 305		8672-167-758		SMD KERKO 0805 0.01UF 10%		
C 306		8515-911-092		FKP1 2200PF 10% 1000V		
C 312		75990-200.43		ELKO GR5 10UF 250V 20%		
C 313		75990-200.44		KONDENS 33 PF 10% 250V		
C 320		8672-167-270		SMD KERKO 0805 0.1UF 10%		
C 321		8672-167-270		SMD KERKO 0805 0.1UF 10%		
C 408		8672-167-270		SMD KERKO 0805 0.1UF 10%		
C 409		8672-167-270		SMD KERKO 0805 0.1UF 10%		
C 414		75990-200.50		KONDENSATOR 68NF SMD		
C 415		8672-167-279		SMD KERKO 0805 0.047UF 10%		
C 417		8672-160-126		SMD KERKO 0805 22PF 5% NP		
C 419		8672-160-126		SMD KERKO 0805 47PF 5% NP		
C 505		8672-160-126		SMD KERKO 0805 22PF 5% NP		
C 507		8672-159-134		SMD KERKO 0805 100PF 5% V		
C 508		8672-159-134		SMD KERKO 0805 0.01UF 10%		
C 515		8672-167-758		SMD KERKO 0805 0.01UF 10%		
C 542		8672-167-758		SMD KERKO 0805 0.01UF 10%		
C 559		75990-200.73		KONDENSATOR 220NF SMD		
C 602		8672-167-758		SMD KERKO 0805 0.01UF 10%		
C 603		8672-167-758		SMD KERKO 0805 0.01UF 10%		
C 650		8672-167-250		SMD KERKO 0805 2200PF 10%		
C 652		8672-160-124		SMD KERKO 0805 15PF 5% NP		
C 654		8672-160-124		SMD KERKO 0805 15PF 5% NP		
C 656		8672-167-758		SMD KERKO 0805 0.01UF 10%		
C 657		8672-167-758		SMD KERKO 0805 0.01UF 10%		
C 658		8672-160-130		SMD KERKO 0805 47PF 5% NP		
C 659		8672-167-758		SMD KERKO 0805 0.01UF 10%		
C 703		75990-200.18		KONDENS. 470PF SMD		
C 704		8525-001-273		MKS 2 0.1 UF 5% 63V		
C 801		8525-001-273		MKS 2 0.1 UF 5% 63V		

POS. NR. POS. NO.	SACHNUMMER PART NUMBER	BEZEICHNUNG DESCRIPTION
C 802	75990-201.00	MKT 5/1 1500 PF 10% 63 V
C 803	8555-268-241	FOKO MKT 5 4700PF 5% 250V
C 806	8672-159-134	SMD KERKO 0805 100PF 5% V
C 806	8672-167-254	SMD KERKO 0805 4700PF 10%
C 807	8672-167-758	SMD KERKO 0805 0.01UF 10%
C 812	8672-167-758	SMD KERKO 0805 0.01UF 10%
C 813	8525-001-273	MKS 2 0.1 UF 5% 63V
C 815	8672-167-279	SMD KERKO 0805 0.047UF 10
C 816	8672-167-270	SMD KERKO 0805 0.1UF 10%
C 817	8672-167-270	SMD KERKO 0805 0.1UF 10%
C 818	8672-167-270	SMD KERKO 0805 0.1UF 10%
C 819	8672-160-126	SMD KERKO 0805 22PF 5% NP
C 820	8672-167-253	SMD KERKO 0805 0.047UF 10
C 821	8672-167-279	SMD KERKO 0805 3900PF 10%
C 822	8672-167-270	SMD KERKO 0805 0.1UF 10%
C 824	8672-167-270	SMD KERKO 0805 0.1UF 10%
C 825	8672-167-270	SMD KERKO 0805 0.1UF 10%
C 827	8672-160-135	SMD KERKO 0805 0.022UF 10
C 828	8672-167-262	SMD KERKO 0805 0.1UF 10%
C 830	8672-159-134	SMD KERKO 0805 100PF 5% V
C 860	8672-159-134	SMD KERKO 0805 100PF 5% V
C 861	8672-159-146	SMD KERKO 0805 100PF 5% V
C 903	8672-159-146	SMD KERKO 0805 100PF 5% V
C 904	8672-159-146	SMD KERKO 0805 100PF 5% V
C 905	8672-159-146	SMD KERKO 0805 100PF 5% V
C 906	75990-200.76	KONDENSATOR 2.2N 2KV
C 907	75990-200.43	ELKO GR5 10UF 250V 20%
CN 1	75990-500.13	SCART-KABEL/SCART CABLE
CN 700	75990-200.75	SCART BUCHSE/SCART SOCKET
CN 900	75990-300.76	BILDROHRFASSUNG/
CN 900	75990-300.75	PICTURE TUBE SOCKET
CR 500	75990-200.88	MIKRO-SOCKEL/MIKRO BASE
CT 2	75990-500.10	QUARZ CSA 8 MHZ
CT 3	75990-500.10	KERAMIK FILTER DSS30655
CT 4	75990-500.10	KERAMIK FILTER DSS30655
CT 401	75990-300.65	KERAMIK FILTER DSS30655
D 1	72008-393.98	DIODE BZX 79 C 4 V 7
D 2	8309-215-045	DIODE 1N4148
D 3	75987-392-37	DIODE BZX 79 C 6 V 8
D 4	8309-215-045	DIODE 1N4148
D 5	8309-215-045	DIODE 1N4148
D 6	8309-215-045	DIODE 1N4148
D 7	75990-500.11	DIODE LL 103A/B/C
D 100	8309-215-127	DIODE 1N 4007 -GA
D 101	8309-215-127	DIODE 1N 4007 -GA
D 102	8309-215-127	DIODE 1N 4007 -GA
D 103	8309-215-127	DIODE 1N 4007 -GA
D 104	8309-201-103	DIODE BA157/RGP10G GI
D 105	75990-500.24	DIODE LL 4148
D 107	8309-201-101	DIODE BA 159
D 108	75990-200.31	Z DIODE BZX 84 C2 V7
D 109	75990-200.31	DIODE BA 157
D 112	8309-215-127	DIODE 1N 4007 -GA
D 113	8309-215-127	DIODE 1N 4007 -GA
D 114	8309-204-060	DIODE BY209 FAGOR/BV37
D 116	8309-517-098	DIODE BY209 FAGOR/BV37
D 118	8309-517-098	DIODE BYW 98-100THOU/ES
D 120	8309-517-098	DIODE BYW 98-100THOU/ES
D 120	8309-215-127	DIODE 1N 4007 -GA
D 200	75990-500.25	DIODE MINI-MELF 4.7V 5%
D 202	8309-201-103	DIODE BA157/RGP10G GI
D 300	8309-201-103	DIODE BA157/RGP10G GI
D 301	8309-201-103	DIODE BA157/RGP10G GI
D 302	8309-201-103	DIODE BA157/RGP10G GI
D 303	75990-200.45	DIODE BY 133
D 304	8309-210-016	SMD DIODE BAS16
D 305	8309-210-016	SMD DIODE BAS16

POS. NR. POS. NO.	SACHNUMMER PART NUMBER	BEZEICHNUNG DESCRIPTION
D 500	75990-200.61	DIODE RED LED
D 501	8309-215-045	DIODE 1N4148
D 502	8309-215-045	DIODE 1N4148
D 503	8309-215-045	DIODE 1N4148
D 504	8309-215-045	DIODE 1N4148
D 540	75990-200.62	ZENER-DIODE BZX84 3.9V
D 650	8309-210-016	SMD DIODE BAS16
D 651	75990-200.69	DIODE BR731 SOT 23
D 652	8309-210-016	SMD DIODE BAS16
D 653	8309-210-016	SMD DIODE BAS16
D 654	8309-210-016	SMD DIODE BAS16
D 655	8309-210-016	SMD DIODE BAS16
D 801	8309-210-016	SMD DIODE BAS16
D 802	8309-210-016	SMD DIODE BAS16
D 804	8309-210-016	SMD DIODE BAS16
D 900	8309-210-016	SMD DIODE BAS16
D 901	8309-210-016	SMD DIODE BAS16
D 902	8309-210-016	SMD DIODE BAS16
F 100	75990-500.31	SICHERUNG 2.5 AT/FUSE
F 101	75990-500.31	SICHERUNG 2.5 AT/FUSE
IC 1	75990-500.18	IC MSP 3410 (NICAM)
IC 2	75990-500.14	IC TDA 2007 A
IC 3	75990-500.23	IC TDA 2615
IC 32	75990-500.15	IC 78 M 05
IC 4	75990-500.16	IC HEF 4053
IC 100	75990-200.23	IC 3844
IC 100	75990-200.33	TRANSISOR MJF 1820A TO220
IC 102	8305-202-906	IC UA 7805/KC MOUNT.KIT
IC 200	8305-348-170	IC TDA 8170 SGS
IC 300	8305-302-581	IC 7812 SAM
IC 400	75990-500.27	IC STV 8224 A
IC 500	75990-500.04	IC STV 8375
IC 550	75990-200.63	IC ST6365 G1000-1-1
IC 600	8305-332-820	IC TDA 2822 M SGS
IC 650	75990-500.32	IC TDA 4445 B
IC 650	75990-500.06	IC TEXTURO CF 70200
IC 850	75990-200.70	IC CT 72035 ANF
IC 851	8305-972-306	IC CF 72036 TID
IC 860	75990-200.58	IC MC 44007/44140
IC 801	75990-200.59	IC MC 44007/44007
IR 500	75990-200.64	IC TFMS 5380
L 2	75990-200.71	DR AX 0411 10UH 10%
L 3	75990-200.71	DR AX 0411 10UH 10%
L 4	75990-200.71	DR AX 0411 10UH 10%
L 100	75990-200.25	SPULE/COIL
L 101	75990-500.33	FERRITE STAB
L 102	75990-500.24	SPULE 100UH/COIL
L 103	75990-300.08	SPULE 65UH (SAMSUNG)/COIL
L 300	75990-300.06	SPULE 150UH/COIL
L 301	75990-200.46	SPULE 100UH/COIL
L 302	75990-200.71	DR AX 0411 10UH 10%
L 400	75990-200.53	SPULE/COIL
L 401	75990-200.65	SPULE 58UH/COIL
L 500	75990-200.71	DR AX 0411 10UH 10%
L 550	75990-200.74	DR 10UH RMS LI
L 551	75990-200.74	DR 10UH RMS LI
L 601	75990-500.28	SPULE 1UH 10% LAL 02/COIL
L 602	75990-500.34	SPULE 6.8UH 10% LAL 04/COIL
L 603	75990-500.34	SPULE 6.8UH 10% LAL 04/COIL
L 604	75990-200.53	SPULE/COIL
L 650	75990-200.71	DR AX 0411 10UH 10%
R 34	75990-300.12	MSW NB 0207 10 OHM 5% AX
R 35	75990-300.12	MSW NB 0207 10 OHM 5% AX
R 100	75990-300.77	WIDERSTAND PTC DUO
R 101	75990-200.27	WIDERSTAND 68KOHM 2W

POS NR. POS. NO.	SACHNUMMER PART NUMBER	BEZEICHNUNG DESCRIPTION
TR 902	75990-200.79	TRANSISTOR BF 871
TR 903	75990-200.80	TRANSISTOR BF423 T092
TR 904	75990-200.80	TRANSISTOR BF423 T092
TR 905	75990-200.80	TRANSISTOR BF423 T092
VR 100	75990-200.37	VARISTOR 4,7KOHM
XT 1	75990-500.17	QUARZ KRISTAL 18,432 MHZ
XT 650	75990-500.07	QUARZ 13,875 MHZ
XT 800	75990-200.80	QUARZ 17,734 MHZ

For Service Manuals Contact
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The regulations and safety instructions shall be valid as provided by the "Safety" Service Manual, part number 72010-800.00, as well as the respective national deviations.



POS NR. POS. NO.	SACHNUMMER PART NUMBER	BEZEICHNUNG DESCRIPTION
R 915	75990-300.13	MOV 0411 0.68 OHM 5% GA
R 915	75990-300.32	MOV 0411 0.82 OHM 5% GA
R 915	75990-300.16	MOV 0411 2.7 OHM 5% GA
R 916	75990-249.077	KSW NB 0411 1.5 KOHM 5%
R 917	75990-249.077	KSW NB 0411 1.5 KOHM 5%
R 918	75990-225.049	KSW NB 0207 100 OHM 5%
R 920	75990-100.049	SMD R 0805 100 OHM 5%
S	75990-200.22	SICHERUNG 1A1/FUSE
SAW 601	75990-200.55	OBERFLÄCHENWELLENFILTER SURFACE WAVE FILTER
SJ 1	75988-011.49	CHIP-JUMPER 0805 MAX 0R05
SJ 2	75988-011.49	CHIP-JUMPER 0805 MAX 0R05
SW 100	75990-200.36	NETZSCHALTER/ POWER SWITCH
T 100	75990-500.19	TRAFO SMT4 G5516-01
T 300	75990-200.48	EHT-TRAFO
T 300	75990-500.09	TRANSFORMER
T 311	75990-200.49	VERZÖGERUNGSELEKTION TX/ DELAY LINE
TR 1	75990-100.10	SMD-TRANS. BC 847
TR 2	8301-000.857	SMD-TRANS. BC 847
TR 3	75990-100.10	TRANSISTOR BC 327 T092
TR 4	75990-500.12	SMD-TRANS. BC 847
TR 5	75990-100.10	SMD-TRANS. BC 847
TR 6	75990-100.10	SMD-TRANS. BC 847
TR 7	75990-100.10	SMD-TRANS. BC 847
TR 8	75990-100.10	SMD-TRANS. BC 847
TR 9	75990-100.10	SMD-TRANS. BC 847
TR 10	75990-100.10	SMD-TRANS. BC 847
TR 11	75990-100.10	SMD-TRANS. BC 847
TR 12	75990-100.10	SMD-TRANS. BC 847
TR 13	75990-100.10	SMD-TRANS. BC 847
TR 14	75990-100.10	SMD-TRANS. BC 847
TR 20	75990-500.05	TRANSISTOR BUZ 80 A
TR 300	75990-200.33	TRANSISTOR MJF18204 T0220
TR 302	8302-222-422	TRANSISTOR MJF18204 T0220
TR 410	75990-200.390	TRANS. 2 N 3904
TR 540	75990-100.10	SMD-TRANS. BC 847
TR 541	75990-200.67	SMD-TRANS. BCX 19
TR 550	75990-100.10	SMD-TRANS. BC 847
TR 650	75990-100.10	SMD-TRANS. BC 847
TR 651	75990-100.10	SMD-TRANS. BC 847
TR 652	75990-100.10	SMD-TRANS. BC 847
TR 653	75990-100.10	SMD-TRANS. BC 847
TR 700	8301-004-847	SMD-TRANS. BC 847 B
TR 801	75990-100.10	SMD-TRANS. BC 847
TR 802	75990-100.10	SMD-TRANS. BC 847
TR 803	75990-100.10	SMD-TRANS. BC 847
TR 900	75990-200.79	TRANSISTOR BF 871
TR 901	75990-200.79	TRANSISTOR BF 871

Es gelten die Vorschriften und Sicherheitshinweise gemäß dem Service Manual "Sicherheit", Sach-Nummer 72010-800.00, sowie zusätzlich die eventuell abweichenden, landesspezifischen Vorschriften!

POS NR. POS. NO.	SACHNUMMER PART NUMBER	BEZEICHNUNG DESCRIPTION
R 656	8765-098-049	MSW 0207 100 OHM 5% TK100
R 673	8706-100-073	SMD R 0805 1 KOHM 5%
R 674	8706-100-073	SMD R 0805 1 KOHM 5%
R 675	8706-100-125	SMD R 0805 150 KOHM 5%
R 676	8706-100-097	SMD R 0805 10 KOHM 5%
R 677	8706-100-115	SMD R 0805 56 KOHM 5%
R 678	8706-100-117	SMD R 0805 68 KOHM 5%
R 700	8706-100-063	SMD R 0805 390 OHM 5%
R 701	8706-100-063	SMD R 0805 390 OHM 5%
R 702	8706-100-063	SMD R 0805 470 OHM 5%
R 703	8706-100-065	SMD R 0805 470 OHM 5%
R 704	8706-100-065	SMD R 0805 470 OHM 5%
R 705	8700-007-446	KSW 0207 75 OHM 5%
R 706	8700-007-446	KSW 0207 75 OHM 5%
R 707	8700-007-446	KSW 0207 75 OHM 5%
R 708	8700-007-446	KSW 0207 75 OHM 5%
R 709	8706-100-097	SMD R 0805 10 KOHM 5%
R 710	8706-100-097	SMD R 0805 10 KOHM 5%
R 712	8706-100-097	SMD R 0805 10 KOHM 5%
R 713	8706-100-097	SMD R 0805 10 KOHM 5%
R 714	8706-100-097	SMD R 0805 1 KOHM 5%
R 716	8706-100-073	SMD R 0805 100 OHM 5%
R 718	8706-100-049	SMD R 0805 100 OHM 5%
R 722	8706-100-049	SMD R 0805 100 OHM 5%
R 801	8706-100-073	SMD R 0805 1 KOHM 5%
R 802	8706-100-049	SMD R 0805 100 OHM 5%
R 803	8706-100-049	SMD R 0805 100 OHM 5%
R 804	8706-100-103	SMD R 0805 18 KOHM 5%
R 805	8706-100-057	SMD R 0805 220 OHM 5%
R 806	8706-100-069	SMD R 0805 680 OHM 5%
R 807	8706-100-057	SMD R 0805 220 OHM 5%
R 808	8706-100-069	SMD R 0805 680 OHM 5%
R 809	8706-100-057	SMD R 0805 220 OHM 5%
R 810	8706-100-069	SMD R 0805 30 KOHM 5%
R 811	8706-100-108	SMD R 0805 220 OHM 5%
R 812	8706-100-057	SMD R 0805 47 KOHM 5%
R 813	8706-100-113	SMD R 0805 100 KOHM 5%
R 815	8706-100-121	SMD R 0805 10 KOHM 5%
R 816	8706-100-169	SMD R 0805 100 KOHM 5%
R 817	8706-100-121	SMD R 0805 330 OHM 5%
R 819	8706-100-061	SMD R 0805 330 OHM 5%
R 820	8706-100-114	SMD R 0805 47 KOHM 5%
R 821	8706-100-113	SMD R 0805 12 KOHM 5%
R 822	8706-100-099	SMD R 0805 47 KOHM 5%
R 823	8706-100-089	SMD R 0805 47 KOHM 5%
R 824	8706-100-089	SMD R 0805 47 KOHM 5%
R 825	8706-100-089	SMD R 0805 47 KOHM 5%
R 826	8706-100-145	SMD R 0805 30 KOHM 5%
R 827	8706-100-108	SMD R 0805 1 KOHM 5%
R 828	8706-100-073	SMD R 0805 1 KOHM 5%
R 829	8706-100-113	SMD R 0805 68 KOHM 5%
R 830	8706-100-117	SMD R 0805 68 KOHM 5%
R 832	75990-500.29	WIDERSTAND 1 OHM 1/4W 5%
R 835	8706-100-131	SMD R 0805 270 KOHM 5%
R 836	8706-100-153	SMD R 0805 22 KOHM 5%
R 840	8706-100-073	SMD R 0805 1 KOHM 5%
R 841	8706-100-065	SMD R 0805 1 KOHM 5%
R 845	75990-300.78	KSW 0411 15 KOHM 1W
R 900	8706-100-049	SMD R 0805 100 OHM 5%
R 901	8706-100-061	SMD R 0805 330 OHM 5%
R 904	8706-249-077	KSW NB 0411 1.5 KOHM 5%
R 905	75990-300.78	KSW NB 0411 1.5 KOHM 5%
R 906	8706-100-049	SMD R 0805 100 OHM 5%
R 907	8706-100-061	SMD R 0805 330 OHM 5%
R 909	8706-249-077	KSW NB 0411 1.5 KOHM 5%
R 910	75990-300.77	WIDERSTAND PTC DUO
R 911	8706-100-077	SMD R 0805 100 OHM 5%
R 913	8706-100-061	SMD R 0805 330 OHM 5%
R 914	8706-249-077	KSW NB 0411 1.5 KOHM 5%

POS NR. POS. NO.	SACHNUMMER PART NUMBER	BEZEICHNUNG DESCRIPTION
R 103	8765-098-049	MSW 0207 100 OHM 5% TK100
R 106	75990-200.28	WIDERSTAND 7.5 KOHM 1/4W
R 106	8706-100-125	SMD R 0805 150 KOHM 5%
R 109	75990-200.29	WIDERSTAND 1.2 KOHM 5W
R 112	8706-100-073	SMD R 0805 1 KOHM 5%
R 115	75990-200.31	WIDERSTAND 10 KOHM VR23
R 116	75990-200.32	MSW NB 0207 0.22 OHM 5%
R 118	8765-098-095	MSW 0207 8.2 KOHM 5% TK10
R 119	8765-098-095	MSW NB 0207 0.22 OHM 5%
R 132	5990-200.32	MSW NB 0207 0.22 OHM 5% TK10
R 132	5990-200.32	MSW NB 0207 0.22 OHM 5% TK10
R 200	75990-200.32	MSW NB 0207 0.22 OHM 5% TK10
R 201	8706-100-093	SMD R 0805 6.8 KOHM 5%
R 202	8706-100-093	SMD R 0805 18 KOHM 5%
R 203	8706-100-089	SMD R 0805 4.7 KOHM 5%
R 204	75988-011.49	CHIP-JUMPER 0805 MAX 0R05
R 205	8706-100-097	SMD R 0805 10 KOHM 5%
R 206	75990-500.29	WIDERSTAND 1 OHM 1/4W 5%
R 207	8706-100-097	SMD R 0805 10 KOHM 5%
R 208	8706-100-097	SMD R 0805 10 KOHM 5%
R 209	8700-007-461	KSW 0207 330 OHM 5%
R 210	8765-098-283	MSW 0207 2.7 KOHM 2% TK10
R 211	75990-300.19	MOV 0411 0.82 OHM 5% GA
R 211	75990-300.19	MOV 0411 0.82 OHM 5% GA
R 300	75990-300.09	KSW SIA 820 OHM 5% GA
R 301	75990-300.09	KSW SIA 820 OHM 5% GA
R 302	75990-300.09	KSW SIA 820 OHM 5% GA
R 304	8706-100-105	SMD R 0805 22 KOHM 5%
R 305	8706-100-089	SMD R 0805 4.7 KOHM 5%
R 306	8706-100-073	SMD R 0805 1 KOHM 5%
R 307	8706-100-073	SMD R 0805 1 KOHM 5%
R 350	8706-100-061	MSW 0204 12 KOHM 5% TK100
R 405	8706-100-081	SMD R 0805 330 OHM 5%
R 412	8706-100-059	SMD R 0805 330 OHM 5%
R 419	8700-007-529	KSW 0207 220 KOHM 5%
R 422	8700-007-473	KSW 0207 15 KOHM 5%
R 423	8706-701-033	KSW SIA 22 OHM 5%
R 426	8706-100-113	SMD R 0805 47 KOHM 5%
R 505	8706-100-105	SMD R 0805 22 KOHM 5%
R 506	8706-100-105	SMD R 0805 22 KOHM 5%
R 507	8706-100-105	SMD R 0805 22 KOHM 5%
R 508	8706-100-085	SMD R 0805 3.3 KOHM 5%
R 509	8706-100-085	SMD R 0805 3.3 KOHM 5%
R 510	8706-100-085	SMD R 0805 18 KOHM 5%
R 511	8700-007-491	KSW 0207 5.6 KOHM 5%
R 512	8700-007-485	KSW 0207 3.3 KOHM 5%
R 513	8706-100-121	SMD R 0805 100 KOHM 5%
R 514	8706-100-097	SMD R 0805 10 KOHM 5%
R 515	8706-100-055	SMD R 0805 180 OHM 5%
R 524	8700-007-471	KSW 0207 820 OHM 5%
R 528	8706-100-463	SMD R 0805 220 OHM 5%
R 530	8706-100-057	SMD R 0805 10 KOHM 5%
R 531	8706-100-073	SMD R 0805 1 KOHM 5%
R 532	8700-007-497	KSW 0207 10 KOHM 5%
R 533	8706-100-113	SMD R 0805 47 KOHM 5%
R 534	8706-100-081	SMD R 0805 2.2 KOHM 5%
R 535	8700-007-505	KSW 0207 22 KOHM 5%
R 540	8706-100-089	SMD R 0805 4.7 KOHM 5%
R 541	8706-100-089	SMD R 0805 4.7 KOHM 5%
R 542	8706-100-065	SMD R 0805 470 OHM 5%
R 545	8706-100-073	SMD R 0805 1 KOHM 5%
R 547	8706-100-065	SMD R 0805 470 OHM 5%
R 547	8706-100-065	SMD R 0805 470 OHM 5%
R 600	8706-100-089	SMD R 0805 4.7 KOHM 5%
R 601	8706-100-089	SMD R 0805 4.7 KOHM 5%
R 650	75952-030.91	MSW NB 0207 4.7 OHM 5% GA
R 651	8706-100-097	SMD R 0805 10 KOHM 5%
R 652	8706-100-073	SMD R 0805 1 KOHM 5%
R 653	8700-007-493	KSW 0207 6.8 KOHM 5%
R 654	75988-011.49	CHIP-JUMPER 0805 MAX 0R05
R 655	8706-100-097	SMD R 0805 10 KOHM 5%

GRUNDIG

Ersatzteilliste Spare Parts List



ⓓ Btx ★ 32700 #

GT 2105

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SACH-NR. / PART NO.: 77250-055.61
BESTELL-NR. / ORDER NO.: G.CC 1361 GB

POS. NR. POS. NO.	ABZ. FIG.	SACHNUMMER PART NUMBER	ANZ. QTY.	BEZEICHNUNG DESCRIPTION	ⓓ	ⓐ
0001.000		75990-500.36		GEHÄUSE DSGN2 STEREO		
0001.000		75990-200.02		FRONT-GEHÄUSE		
0002.000		75990-300.50		EMBLEM-GRUNDIG		
0003.000		75990-200.10		INFRAROT-FENSTER		
0004.000		75990-200.11		TASTEN		
0005.000		75990-500.01		LAUTSPRECHER 8 OHMS 4W		
0008.000		75990-200.09		NETZTASTE		
0009.000		75990-300.52		NETZKABEL		
0010.000		75990-200.98		BILDR. 2T'A51AEZ90X02 (CHUNGHWHA)		
0010.000		75990-200.98		BILDR. A51 EER 11X38 (SAMSUNG)		
0011.000		75990-200.92		BILDR. A51 ECV 51X01 (HUAFEI)		
0011.000		75990-500.35		RUECKWAND		
0019.000		75990-300.63		TUNER UHF		

POS. NR. POS. NO.	SACHNUMMER PART NUMBER	BEZEICHNUNG DESCRIPTION
C 16	75990-200.19	KONDENS. 470PF SMD
C 17	75990-200.83	KONDENS. 470PF SMD
C 100	75990-200.83	KONDENSATOR 220NF 250V
C 101	75990-200.66	KONDENS. 1NF 1KV
C 102	75990-200.66	KONDENS. 1NF 1KV
C 103	75990-200.66	KONDENS. 1NF 1KV
C 104	75990-100.36	KONDO 100UF -80% 20% 400V
C 105	8531-573-022	MKT 15 0.1 UF 20% 400V
C 110	8672-160.142	KEFO 0805 470PF 5%
C 111	75990-200.18	KONDENS. 1NF 1KV
C 113	8672-160.142	KEFO 0805 470PF 5%
C 114	75990-200.82	KONDENSATOR 2.2N 250V
C 118	8672-167.270	KEFO 0805 0.1 UF 10%
C 119	8672-167.758	KEFO 0805 0.01 UF 10%
C 120	75988-015.47	ELKO 100U 160V
C 123	75988-015.52	ELKO 25V +80-20% 1000UF
C 127	75988-015.52	ELKO 1000U 35V
C 131	75990-500.02	KONDENSATOR 10N 400V 10%
C 141	8672-167.758	KEFO 0805 0.01 UF 10%
C 202	8672-167.254	KEFO 0805 4700PF 10%
C 203	8672-159-122	KEFO 0805 10PF 5%
C 206	8415-186-147	ELKO 1000UF 25V
C 300	75990-300.01	KONDENSATOR 6.6N 1600V
C 300	75990-300.03	KOND. 390NF 160V
C 301	75990-300.58	KOND. 316NF 160V 5% (HUAFEI)
C 302	75990-200.41	KONDENS. 47UF 250V
C 303	75990-200.42	KONDENS. 27NF 250V
C 304	75987-355.97	KONDENS. 1000PF+-10% 1000V
C 305	8515-911-092	KEFO 0805 0.01 UF 10%
C 306	8515-911-092	FKP1 2200PF 10% 1000V
C 312	75990-200.43	ELKO GR5 10UF 250V 20%
C 320	8672-167.270	KEFO 0805 0.1 UF 10%
C 321	8672-167.270	KEFO 0805 0.1 UF 10%
C 321	8672-167.270	KEFO 0805 0.1 UF 10%
C 408	8672-167.270	KEFO 0805 0.1 UF 10%
C 409	8672-167.270	KEFO 0805 0.1 UF 10%
C 415	8672-167.758	KEFO 0805 0.01 UF 10%

POS. NR. POS. NO.	SACHNUMMER PART NUMBER	BEZEICHNUNG DESCRIPTION
C 801	8525-001-273	MKS 2 0.1 UF 5% 63V
C 802	75990-201.00	MKT 5/1 1500 PF 10% 63 V
C 803	8525-268-241	MKT 5/5 4700PF 5%
C 804	8525-001-273	MKS 2 0.1 UF 5% 63V
C 805	8672-159-134	KEFO 0805 100PF 5%
C 806	8672-167.254	KEFO 0805 4700PF 10%
C 807	8672-167.758	KEFO 0805 0.01 UF 10%
C 808	8452-967-169	ELKO AMMO5 33UF 35V
C 809	8672-167.270	KEFO 0805 0.01 UF 10%
C 812	8672-167.758	MKS 2 0.1 UF 5% 63V
C 813	8525-001-273	MKS 2 0.1 UF 5% 63V
C 815	8672-167.279	KEFO 0805 0.047UF 10%
C 816	8672-167.270	KEFO 0805 0.1 UF 10%
C 817	8672-167.270	KEFO 0805 0.1 UF 10%
C 818	8672-167.270	KEFO 0805 0.1 UF 10%
C 819	8672-160-126	KEFO 0805 22PF 5%
C 820	8672-167.279	KEFO 0805 0.047UF 10%
C 821	8672-167.253	KEFO 0805 3900PF 10%
C 822	8672-167.270	MKS 2 0.1 UF 5% 63V
C 823	8525-001-273	MKS 2 0.1 UF 5% 63V
C 824	8672-167.270	KEFO 0805 0.1 UF 10%
C 825	8672-160-135	KEFO 0805 120PF 5%
C 827	8672-160-135	KEFO 0805 0.022UF 10%
C 828	8672-167.262	KEFO 0805 0.1 UF 10%
C 830	8672-167.270	ELKO 1UF 20% 50V RM2.5
C 831	8452-668-234	ELKO 1UF 20% 50V RM2.5
C 832	8452-668-234	ELKO 1UF 20% 50V RM2.5
C 833	8525-001-273	MKS 2 0.1 UF 5% 63V
C 834	8672-167.758	KEFO 0805 0.01 UF 10%
C 835	8452-967-169	ELKO AMMO5 33UF 35V
C 836	8672-167.758	KEFO 0805 0.01 UF 10%
C 840	8672-167.270	KEFO 0805 0.1 UF 10%
C 841	8672-160-129	KEFO 0805 39PF 5%
C 860	8672-159-134	KEFO 0805 100PF 5%
C 861	8672-159-134	KEFO 0805 100PF 5%
C 900	75990-200.19	KONDENS. 470PF SMD
C 901	75990-200.19	KONDENS. 470PF SMD
C 902	75990-200.19	KEFO 0805 1000PF 5%
C 903	8672-159-146	KEFO 0805 1000PF 5%
C 904	8672-159-146	KEFO 0805 1000PF 5%
C 905	8672-159-146	KEFO 0805 1000PF 5%
C 906	75990-200.76	KONDENSATOR 2.2N 2KV
C 907	75990-200.43	ELKO GR5 10UF 250V 20%
CN 1	75990-500.13	SCART-KABEL
CN 700	75990-200.75	SCART BUCHSE
CN 900	75990-300.76	BILDROHRAUSSUNG (HUAFEI)
CR 500	75990-200.68	QUARZ CSA 8 MHz
CT 2	75990-500.10	KERAMIK FILTER DSS30655
CT 3	75990-500.10	KERAMIK FILTER DSS30655
CT 4	75990-500.10	KERAMIK FILTER DSS30655
CT 401	75990-300.65	FILTER TPS 6.0 MHz
D 1	72008-393.98	DIODE BZX 79 C 4 V 7
D 2	8309-215-045	DIODE 1N4148
D 3	75987-392.37	DIODE BZX 79 C 6 V 8
D 4	8309-215-045	DIODE 1N4148
D 5	8309-215-045	DIODE 1N4148
D 6	8309-215-045	DIODE 1N4148
D 7	75990-500.11	DIODE LL 103A/B/C
D 100	8309-215-127	DIODE 1N 4007 -GA
D 101	8309-215-127	DIODE 1N 4007 -GA
D 102	8309-215-127	DIODE 1N 4007 -GA
D 103	8309-215-127	DIODE 1N 4007 -GA
D 104	8309-201-103	DIODE BA157/RGP10G GI

POS. NR. POS. NO.	SACHNUMMER PART NUMBER	BEZEICHNUNG DESCRIPTION
D 105	75990-500.24	DIODE LL 4148
D 107	8309-201-101	DIODE BA 159
D 110	75990-500.03	DIODE BYD 37 K
D 112	8309-215-127	DIODE 1N 4007 -GA
D 113	8309-215-127	DIODE 1N 4007 -GA
D 114	8309-204-060	DIODE BY239 FAGOR/BV437
D 115	8309-204-060	DIODE BY239 FAGOR/BV437
D 116	8309-517-098	DIODE BYW 98-100THOULES
D 118	8309-517-098	DIODE BYW 98-100THOULES
D 120	8305-306-003	IC ZTK 33 B/C D/PD 1T
D 200	8309-215-127	DIODE 1N 4007 -GA
D 202	75990-500.25	DIODE MINI-MELF 4.7V 5%
D 300	8309-201-103	DIODE BA157/RGP10G GI
D 301	8309-201-103	DIODE BA157/RGP10G GI
D 302	8309-201-103	DIODE BA157/RGP10G GI
D 303	8309-201-103	DIODE BA157/RGP10G GI
D 304	75990-200.45	DIODE BY 133
D 305	75990-200.24	DIODE LL 4148
D 501	75990-200.61	DIODE RED LED
D 501	8309-215-045	DIODE 1N4148
D 502	8309-215-045	DIODE 1N4148
D 503	8309-215-045	DIODE 1N4148
D 504	8309-215-045	DIODE 1N4148
D 540	75990-500.26	DIODE LL 4148
D 652	75990-500.24	DIODE LL 4148
D 653	75990-500.24	DIODE LL 4148
D 654	75990-500.24	DIODE LL 4148
D 655	75990-500.24	DIODE LL 4148
D 801	75990-500.24	DIODE LL 4148
D 802	75990-500.24	DIODE LL 4148
D 804	75990-500.24	DIODE LL 4148
D 901	75990-500.24	DIODE LL 4148
D 902	75990-500.24	DIODE LL 4148
F 100	75990-500.31	SICHERUNG 2.5 AT
F 101	75990-500.31	SICHERUNG 2.5 AT
IC 1	75990-500.18	IC MSP 3410 (NICAM)
IC 2	75990-500.14	IC TDA 2007 A
IC 2	75990-500.23	IC TDA 2615
IC 3	75990-500.15	IC 78 M 05
IC 4	75990-500.16	IC HEF 4053
IC 100	75990-200.23	IC 3844
IC 102	8305-202-906	IC UA 7805/C/KC MOUNT KIT
IC 200	8305-348-170	IC TDA 8170 SGS
IC 300	8305-302-581	IC 7812 SAM
IC 400	75990-500.27	IC STV 8224 A
IC 500	75990-500.04	IC ST 6375
IC 600	75990-500.32	IC TDA 4445 B
IC 650	75990-500.06	IC TEXTURO CF 70200
IC 651	8305-972-306	IC CF 72306 TID
IC 800	75990-200.58	IC MC 44007/44140
IC 801	75990-200.59	IC MC 44140/44007
IR 500	75990-200.64	IC TFMS 5380
L 2	75990-200.71	DR AX 0411 10UH 10%
L 3	75990-200.71	DR AX 0411 10UH 10%
L 4	75990-200.71	DR AX 0411 10UH 10%
L 40	75990-300.06	SPULE 150UH
L 100	75990-500.20	RFI OREGA 1018291 0.5 A
L 101	75990-500.21	INTEGRATOR 100UH 10% LHL 13
L 102	75990-500.33	FERRITE STAB
L 103	75990-200.46	SPULE 100UH
L 300	75990-300.08	SPULE 65UH
L 300	75990-300.07	SPULE 80UH (SAMSUNG)

POS. NR. POS. NO.	SACHNUMMER PART NUMBER	BEZEICHNUNG DESCRIPTION
TR 6	75990-100.10	SMD-TRANS. BC 847
TR 7	75990-100.10	SMD-TRANS. BC 847
TR 8	75990-100.10	SMD-TRANS. BC 847
TR 9	75990-100.10	SMD-TRANS. BC 847
TR 10	75990-100.10	SMD-TRANS. BC 847
TR 11	75990-100.10	SMD-TRANS. BC 847
TR 12	75990-100.10	SMD-TRANS. BC 847
TR 13	75990-100.10	SMD-TRANS. BC 847
TR 14	75990-100.10	SMD-TRANS. BC 847
TR 20	75990-100.10	SMD-TRANS. BC 847
TR 100	75990-500.05	3-FACH 7-SEGMENT-ANZEIGE
TR 300	8302-222-422	TRANS BF 422 NUR=VAL
TR 301	8302-222-422	TRANS BF 422 NUR=VAL
TR 302	8302-222-422	TRANS BF 422 NUR=VAL
TR 410	8302-920-390	TRANS 2 N 3904
TR 540	75990-100.10	SMD-TRANS. BC 847
TR 541	75990-100.10	SMD-TRANS. BCX 19
TR 700	75990-100.10	SMD-TRANS. BC 847
TR 800	8301-004-847	SMD-TRANS. BC 847 B
TR 801	75990-100.10	SMD-TRANS. BC 847
TR 802	75990-100.10	SMD-TRANS. BC 847
TR 803	75990-100.10	SMD-TRANS. BC 847
TR 900	75990-200.79	TRANSISTOR BF 871
TR 901	75990-200.79	TRANSISTOR BF 871
TR 902	75990-200.79	TRANSISTOR BF 871
TR 903	75990-200.80	TRANSISTOR BF423 T092
TR 904	75990-200.80	TRANSISTOR BF423 T092
TR 905	75990-200.80	TRANSISTOR BF423 T092
VR 100	75990-200.37	VARISTOR 4,7 KOHM
XT 1	75990-500.17	QUARZ KRISTAL 18.432 MHz
XT 650	75990-500.07	QUARZ 13.875 MHz
XT 800	75990-200.60	QUARZ 17.734 MHz

For Service Manuals Contact
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 Email: enquiries@mauritron.co.uk

The regulations and safety instructions shall be valid as provided by the "Safety" Service Manual, part number 72010-800.00, as well as the respective national deviations.



POS. NR. POS. NO.	SACHNUMMER PART NUMBER	BEZEICHNUNG DESCRIPTION
R 823	8706-100-089	R-CHIP 0805 12 KOHM 5%
R 824	8706-100-089	R-CHIP 0805 4,7 KOHM 5%
R 825	8706-100-089	R-CHIP 0805 4,7 KOHM 5%
R 826	8706-100-145	R-CHIP 0805 1 MOHM 5%
R 827	8706-100-108	R-CHIP 0805 30 KOHM 5%
R 828	8706-100-073	R-CHIP 0805 1 KOHM 5%
R 829	8706-100-113	R-CHIP 0805 68 KOHM 5%
R 830	8706-100-117	R-CHIP 0805 4 KOHM 5%
R 832	75990-500.29	WIDERSTAND 1 OHM 1/4W 5%
R 835	8706-100-153	R-CHIP 0805 2,2 KOHM 5%
R 836	8706-100-073	R-CHIP 0805 2,2 KOHM 5%
R 840	8706-100-073	R-CHIP 0805 1 KOHM 5%
R 841	8706-100-085	R-CHIP 0805 470 OHM 5%
R 845	8706-100-085	R-CHIP 0805 470 OHM 5%
R 900	75990-300.78	KSW 0411 15 KOHM 1W
R 901	8706-100-049	R-CHIP 0805 100 OHM 5%
R 903	8706-100-061	R-CHIP 0805 330 OHM 5%
R 904	8706-100-061	KSW NB 0411 1,5 KOHM 5%
R 905	8706-100-061	KSW 0411 15 KOHM 1W
R 906	8706-100-049	R-CHIP 0805 100 OHM 5%
R 908	8706-100-061	R-CHIP 0805 330 OHM 5%
R 909	8706-100-077	KSW NB 0411 1,5 KOHM 5%
R 910	8706-100-049	WIDERSTAND PTC DUO
R 911	8706-100-049	R-CHIP 0805 100 OHM 5%
R 913	8706-100-061	R-CHIP 0805 330 OHM 5%
R 914	8706-100-077	KSW NB 0411 1,5 KOHM 5%
R 915	75990-300.13	MOW 0411 0,68 OHM 5% GA
R 915	75990-300.32	MOW 2,7 (HUAFEI)
R 916	8706-100-077	KSW NB 0411 1,5 KOHM 5%
R 917	8706-100-077	KSW NB 0411 1,5 KOHM 5%
R 918	8706-100-077	KSW NB 0411 1,5 KOHM 5%
R 920	8706-100-049	R-CHIP 0805 100 OHM 5%
SAW 600	75990-500.08	OFW J 3252
SJ 1	75988-011.49	CHIP-JUMPER 0805 MAX 0R05
SJ 2	75988-011.49	CHIP-JUMPER 0805 MAX 0R05
SJ 3	75988-011.49	CHIP-JUMPER 0805 MAX 0R05
SJ 4	75988-011.49	CHIP-JUMPER 0805 MAX 0R05
SJ 200	75988-011.49	CHIP-JUMPER 0805 MAX 0R05
SW 100	75990-200.36	NETZSCHALTER
SW 500	75990-500.30	SCHALTER, TAKT
SW 501	75990-500.30	SCHALTER, TAKT
SW 502	75990-500.30	SCHALTER, TAKT
SW 503	75990-500.30	SCHALTER, TAKT
T 100	75990-500.19	SMT 4 G5516-01
T 300	75990-500.09	EHT-TRAFO L27 G5652-01
T 300	75990-200.48	EHT TRAFO
T 311	75990-200.48	VERZOGERUNGSLEITUNG TX
TR 1	75990-100.10	SMD-TRANS. BC 847
TR 2	8301-000-857	SMD-TRANS. BC 857
TR 3	75990-100.10	SMD-TRANS. BC 847
TR 4	75990-500.12	TRANSISTOR BC 327 T092
TR 5	75990-100.10	SMD-TRANS. BC 847

Es gelten die Vorschriften und Sicherheitshinweise gemäß dem Service Manual "Sicherheit", Sach-Nummer 72010-800.00, sowie zusätzlich die eventuell abweichenden, landesspezifischen Vorschriften!

POS. NR. POS. NO.	SACHNUMMER PART NUMBER	BEZEICHNUNG DESCRIPTION
R 512	8706-100-485	KSW 0207 3,3 KOHM 5%
R 513	8706-100-121	R-CHIP 0805 10 KOHM 5%
R 514	8706-100-097	R-CHIP 0805 10 KOHM 5%
R 515	8706-100-055	R-CHIP 0805 180 OHM 5%
R 524	8706-100-471	KSW 0207 390 OHM 5%
R 528	8706-100-463	R-CHIP 0805 220 OHM 5%
R 530	8706-100-057	R-CHIP 0805 10 KOHM 5%
R 531	8706-100-097	R-CHIP 0805 1 KOHM 5%
R 532	8706-100-497	KSW 0207 10 KOHM 5%
R 533	8706-100-081	R-CHIP 0805 2,2 KOHM 5%
R 535	8706-100-081	R-CHIP 0805 2,2 KOHM 5%
R 540	8706-100-505	R-CHIP 0805 47 KOHM 5%
R 541	8706-100-089	R-CHIP 0805 47 KOHM 5%
R 542	8706-100-089	R-CHIP 0805 470 OHM 5%
R 546	8706-100-065	R-CHIP 0805 1 KOHM 5%
R 547	8706-100-073	R-CHIP 0805 70 OHM 5%
R 601	8706-100-089	R-CHIP 0805 4,7 KOHM 5%
R 601	8706-100-089	R-CHIP 0805 4,7 KOHM 5%
R 650	75952-030.91	KSW SI A 4,7 OHM 5% GA
R 651	8706-100-097	R-CHIP 0805 10 KOHM 5%
R 652	8706-100-073	R-CHIP 0805 1 KOHM 5%
R 653	8706-100-493	KSW 0207 6,8 KOHM 5%
R 654	75988-011.49	CHIP-JUMPER 0805 MAX 0R05
R 655	8706-100-097	R-CHIP 0805 10 KOHM 5%
R 656	8706-100-097	R-CHIP 0805 10 KOHM 5%
R 674	8706-100-073	R-CHIP 0805 1 KOHM 5%
R 675	8706-100-125	R-CHIP 0805 820 OHM 5%
R 676	8706-100-097	R-CHIP 0805 150 KOHM 5%
R 676	8706-100-097	R-CHIP 0805 10 KOHM 5%
R 677	8706-100-115	R-CHIP 0805 56 KOHM 5%
R 678	8706-100-117	R-CHIP 0805 68 KOHM 5%
R 701	8706-100-063	R-CHIP 0805 390 OHM 5%
R 702	8706-100-063	R-CHIP 0805 390 OHM 5%
R 703	8706-100-063	R-CHIP 0805 390 OHM 5%
R 704	8706-100-065	R-CHIP 0805 470 OHM 5%
R 705	8706-100-446	KSW 0207 75 OHM 5%
R 706	8706-100-446	KSW 0207 75 OHM 5%
R 707	8706-100-446	KSW 0207 75 OHM 5%
R 708	8706-100-446	KSW 0207 75 OHM 5%
R 709	8706-100-446	KSW 0207 75 OHM 5%
R 710	8706-100-087	R-CHIP 0805 10 KOHM 5%
R 712	8706-100-087	R-CHIP 0805 10 KOHM 5%
R 713	8706-100-087	R-CHIP 0805 10 KOHM 5%
R 714	8706-100-087	R-CHIP 0805 1 KOHM 5%
R 716	8706-100-073	R-CHIP 0805 10 KOHM 5%
R 717	8706-100-073	R-CHIP 0805 10 KOHM 5%
R 718	8706-100-097	R-CHIP 0805 10 KOHM 5%
R 722	8706-100-049	R-CHIP 0805 100 OHM 5%
R 800	8706-100-073	R-CHIP 0805 1 KOHM 5%
R 801	8706-100-049	R-CHIP 0805 100 OHM 5%
R 802	8706-100-049	R-CHIP 0805 100 OHM 5%
R 803	8706-100-049	R-CHIP 0805 100 OHM 5%
R 804	8706-100-103	R-CHIP 0805 18 KOHM 5%
R 805	8706-100-103	R-CHIP 0805 220 OHM 5%
R 806	8706-100-089	R-CHIP 0805 680 OHM 5%
R 807	8706-100-057	R-CHIP 0805 220 OHM 5%
R 808	8706-100-069	R-CHIP 0805 820 OHM 5%
R 809	8706-100-057	R-CHIP 0805 220 OHM 5%
R 810	8706-100-057	R-CHIP 0805 30 KOHM 5%
R 811	8706-100-108	R-CHIP 0805 30 KOHM 5%
R 812	8706-100-057	R-CHIP 0805 220 OHM 5%
R 813	8706-100-113	R-CHIP 0805 47 KOHM 5%
R 815	8706-100-121	R-CHIP 0805 100 KOHM 5%
R 816	8706-100-169	R-CHIP 0805 10 MOHM 10%
R 817	8706-100-121	R-CHIP 0805 10 KOHM 5%
R 819	8706-100-061	R-CHIP 0805 330 OHM 5%
R 820	8706-100-061	R-CHIP 0805 330 OHM 5%
R 821	8706-100-114	R-CHIP 0805 51 KOHM 5%
R 822	8706-100-113	R-CHIP 0805 47 KOHM 5%

POS. NR. POS. NO.	SACHNUMMER PART NUMBER	BEZEICHNUNG DESCRIPTION
L 301	75990-300.06	SPULE 150 UH (HUAFEI)
L 302	75990-200.46	SPULE 100UH
L 400	75990-200.71	DR AX 0411 10UH 10%
L 401	75990-200.53	SPULE
L 500	75990-200.65	SPULE 58UH
L 540	75990-200.66	KONDENS. 1NF 1KV
L 600	75990-200.66	KONDENS. 1NF 1KV
L 601	75990-200.28	SPULE 1UH 10% LAL 02
L 602	75990-200.71	DR AX 0411 10UH 10%
L 603	75990-500.34	SPULE
L 604	75990-200.53	SPULE
L 650	75990-200.71	DR AX 0411 10UH 10%
R 34	75990-300.12	MSW NB 0207 10 OHM 5% AX
R 35	75990-300.12	MSW NB 0207 10 OHM 5% AX
R 100	75990-300.77	WIDERSTAND PTC DUO
R 101	75990-200.28	WIDERSTAND 68KOHM 2W
R 103	8765-098-049	MSW 0207 100 OHM 5% TK100
R 105	75990-200.28	WIDERSTAND 7,5 KOHM 1/4W
R 106	8706-100-125	R-CHIP 0805 150 KOHM 5%
R 107	8706-100-089	SMD R 0805 24 KOHM 1%
R 108	8706-100-493	R-CHIP 0805 6,8 KOHM 5%
R 109	75990-200.29	WIDERSTAND 1,2 KOHM 5W
R 111	8706-100-073	R-CHIP 0805 1 KOHM 5%
R 112	75990-200.31	WIDERSTAND 10MOHM VR23
R 115	75990-200.32	MSW NB 0207 0,22 OHM 5%
R 116	8765-098-095	MSW 0207 8,2 KOHM 5% TK10
R 119	8765-098-095	MSW 0207 8,2 KOHM 5% TK10
R 120	75990-200.32	MSW NB 0207 0,22 OHM 5%
R 132	75952-030.91	KSW SI A 4,7 OHM 5% GA
R 200	8706-100-093	R-CHIP 0805 6,8 KOHM 5%
R 201	8706-100-103	R-CHIP 0805 18 KOHM 5%
R 202	8706-100-089	R-CHIP 0805 4,7 KOHM 5%
R 203	75988-011.49	CHIP-JUMPER 0805 MAX 0R05
R 204	8706-100-097	R-CHIP 0805 10 KOHM 5%
R 205	75990-500.29	WIDERSTAND 1 OHM 1/4W 5%
R 207	8706-100-097	R-CHIP 0805 10 KOHM 5%
R 208	8706-100-097	R-CHIP 0805 10 KOHM 5%
R 209	8706-100-461	KSW 0207 330 OHM 5%
R 210	8765-098-283	MSW 0207 2,7 KOHM 2% TK10
R 211	75990-300.19	MSW 0207 1 OHM 1% GA
R 211	75990-300.32	MSW 0,82 OHM (SAMSUNG)
R 300	75990-300.09	KSW SI A 820 OHM 5% GA
R 301	8765-097-129	MSW 0204 220 KOHM 5% TK10
R 302	8765-097-129	MSW 0204 220 KOHM 5% TK10
R 303	8706-100-105	R-CHIP 0805 22 KOHM 5%
R 304	8706-100-105	R-CHIP 0805 4,7 KOHM 5%
R 305	8706-100-089	R-CHIP 0805 1 KOHM 5%
R 306	8706-100-073	R-CHIP 0805 1 KOHM 5%
R 307	8706-100-041	R-CHIP 0805 1 KOHM 5%
R 310	75990-500.29	WIDERSTAND 1 OHM 1/4W 5%
R 311	75990-201.01	KSW SI A 0,68 OHM 5%
R 312	75990-200.47	WIDERSTAND 6,8K 4W MO
R 314	8765-097-025	MSW 0204 10 OHM 5% TK100
R 315	8765-097-025	MSW 0204 12 KOHM 5% TK100
R 350	8706-100-099	MSW 0204 330 OHM 5%
R 405	8706-100-061	R-CHIP 0805 330 OHM 5%
R 412	8706-100-061	R-CHIP 0805 330 OHM 5%
R 419	8706-100-528	KSW 0207 220 KOHM 5%
R 422	8706-100-473	KSW 0207 1 KOHM 5%
R 423	8706-100-501	KSW 0207 15 KOHM 5%
R 428	8766-701-033	KSW SI A 22 OHM 5%
R 506	8706-100-113	R-CHIP 0805 47 KOHM 5%
R 505	8706-100-105	R-CHIP 0805 22 KOHM 5%
R 507	8706-100-105	R-CHIP 0805 22 KOHM 5%
R 508	8706-100-105	R-CHIP 0805 22 KOHM 5%
R 509	8706-100-085	R-CHIP 0805 3,3 KOHM 5%
R 510	8706-100-085	R-CHIP 0805 3,3 KOHM 5%
R 510	8706-100-103	R-CHIP 0805 18 KOHM 5%
R 511	8706-100-491	KSW 0207 5,6 KOHM 5%