# SERVICE MANUAL

# BE-3D CHASSIS

| MODEL | COMMANDER | DEST. | CHASSIS NO. |
|---|---|---|---|
| KV-32WF1A | RM-839 | Italian | SCC-J05FA |
| KV-32WF1B | RM-839 | French | SCC-J05GA |
| KV-32WF1D | RM-839 | AEP | SCC-J06HA |
| KV-32WF1E | RM-839 | Spanish | SCC-J03KA |
| KV-32WF1K | RM-839 | OIRT | SCC-J03LA |
| KV-32WF1U | RM-839 | UK | SCC-J02EA |


MICROFILM

TRINITRON® COLOR TV

SONY®

| ITEM MODEL | Television System | Channel Coverage | Colour System |
|---|---|---|---|
| Italian | B/G/H | VHF: E2-E12 UHF: E21-E69<br>CABLE TV(1) : S1-S41<br>CABLE TV(2) : S01-S05,M1-M10, U1-U10<br>ITALIA A-H, H1, H2 | PAL<br>NTSC3.58/4.43<br>(video input only) |
| French | B/G/H, D/K, L, I | B/G/H VHF: E2-E12 UHF: E21-E69<br>CABLE TV (1) : S1-S41<br>CABLE TV (2) : S01-S05, M1-M10, U1-U10<br>ITALIA VHF: A-H, H1, H2<br>D/K VHF: R01-R20 UHF: B21-B69<br>L VHF: F2-F10 UHF: F21-F69<br>CABLE TV B-Q, S21-S44<br>I UHF: B21-B69 | PAL, SECAM<br>NTSC3.58/4.43<br>(video input only) |
| AEP | B/G/H, D/K | B/G/H VHF: E2-E12 UHF: S1-S20<br>CABLE TV (1) : S1-S41<br>CABLE TV (2) : S01-S05, M1-M10, U1-U10<br>ITALIA VHF: A-H, H1, H2<br>D/K VHF: R01-R20 UHF: B21-B69<br>CABLE TV S1-S41, S01-S05 | PAL, SECAM<br>NTSC3.58/4.43<br>(video input only) |
| Spanish | B/G/H, D/K | PAL B/G/H VHF: E2-E12 UHF: E21-E69<br>CABLE TV (1) : S1-S41<br>CABLE TV (2) : S01-S05, M1-M10, U1-U10<br>ITALIA VHF: A-H, H1, H2<br>D/K VHF: R01-R20 UHF: B21-B69<br>CABLE TV S1-S41, S01-S05 | PAL, SECAM<br>NTSC3.58/4.43<br>(video input only) |
| OIRT | B/G/H, D/K | B/G/H VHF: E2-E12 UHF: E21-E69<br>CABLE TV (1) : S1-S41<br>CABLE TV (2) : S01-S05, M1-M10, U1-U10<br>ITALIA VHF: A-H, H1, H2<br>D/K VHF: R01-R12 UHF: R21-R69<br>CABLE TV S1-S41, S01-S05 | PAL, SECAM<br>NTSC3.58/4.43<br>(video input only) |
| UK | I | UHF: U21-U69 | PAL<br>NTSC3.58/4.43<br>(video input only) |

| MODEL | 32WF1A | 32WF1B | 32WF1D | 32WF1E | 32WF1K | 32WF1U |
|---|---|---|---|---|---|---|
| Power Consumption | 83W | 93W | 93W | 93W | 93W | 144W |

## SPECIFICATIONS

Picture Tube — Super Trinitron
Approx. 82 cm (32 inches)
(Approx. 76 cm picture measured diagonally)
110° -deflection

**Rear/Front Terminals**

**[REAR]**

- 1 21-pin Euro connector (CENELEC standard)
  - Inputs for audio / video signals
  - Inputs for RGB
  - Outputs for TV audio and video signals
- 2/S 2, 21-pin Euro connector (CENELEC standard)
  - Inputs for audio / video signals
  - Inputs for S video
  - Outputs for TV audio and video signals (selectable)
- Audio output - phono jack (variable)

**[FRONT]**

- 3 , Video input - phono jack
- 3 , Audio inputs - phono jacks
- 3 , S video input - 4 pin DIN
- Stereo minijack - headphone jack

Sound output
Left/Right — 2x10W (RMS)
2x20W (music power)
Dimensions — 789x602x576 mm
Weight — Approx. 54 kg
Supplied accessories — RM-839 Remote Commander (1)
Batteries R6 (2)
Other features — NICAM (KV-32WF1B/32WF1E/32WF1U only)

**[RM-839]**

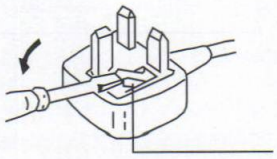
| | |
|---|---|
| Remote control system | Infrared control |
| Power requirements | 3V dc (2 batteries) R6 (size AA) |
| Dimensions | Approx. 210x45x24 mm (w/h/d) |
| Weight | Approx. 90g (Not including battery) |

**Design and specifications are subject to change without notice.**

| Item \ Model name | KV-32WF1A | KV-32WF1B | KV-32WF1D | KV-32WF1E | KV-32WF1K | KV-32WF1U |
|---|---|---|---|---|---|---|
| PIP | OFF | OFF | OFF | OFF | OFF | OFF |
| MPIP | OFF | OFF | OFF | OFF | OFF | OFF |
| Rotation Coil | ON | ON | ON | ON | ON | ON |
| VM Set | ON | ON | ON | ON | ON | ON |
| Scart 1 | ON | ON | ON | ON | ON | ON |
| Scart 2 | ON | ON | ON | ON | ON | ON |
| Front in (3) | ON | ON | ON | ON | ON | ON |
| TXT | ON | ON | ON | ON | ON | ON |
| FLOF | ON | ON | ON | ON | ON | ON |
| TOP | ON | ON | ON | ON | ON | ON |
| AKB in 16:9 mode | ON | ON | ON | ON | ON | ON |
| Norm B/G/H | ON | ON | ON | ON | ON | OFF |
| Norm I | OFF | ON | OFF | OFF | OFF | ON |
| Norm D/K | OFF | ON | ON | ON | ON | OFF |
| Norm L | OFF | ON | OFF | OFF | OFF | OFF |
| Language Preset | Italian | French | German | Spanish | OIRT | English |

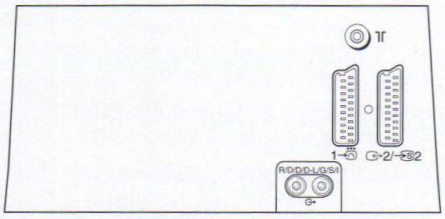
## WARNING ( KV-32WF1U only )

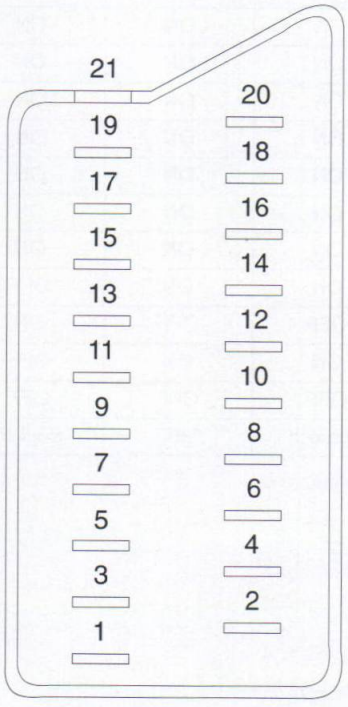
The flexible mains lead is supplied connected to a **B.S. 1363** fused plug having a fuse of **5 AMP** capacity. Should the fuse need to be replaced, use a **5 AMP FUSE** approved by **ASTA** to **BS 1362**, ie one that carries the ASTA mark.
IF THE PLUG SUPPLIED WITH THIS APPLIANCE IS NOT SUITABLE FOR YOUR SOCKET OUTLETS IN YOUR HOME. IT SHOULD BE CUT OFF AND AN APPROPRIATE PLUG FITTED. THE PLUG SEVERED FROM THE MAINS LEAD MUST BE DESTROYED AS A PLUG WITH BARED WIRES IS DANGEROUS IF ENGAGED IN A LIVE SOCKET OUTLET.
When an alternative type of plug is used it should be fitted with a **5 AMP FUSE**, otherwise the circuit should be protected by a **5 AMP FUSE** at the distribution board.




How to replace the fuse.
Open the fuse compartment with the screwdriver blade and replace the fuse.

## 21 pin connector ( 1, 2 / S 2 )

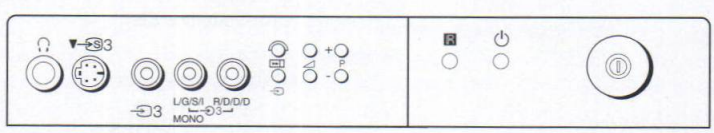



| Pin No. | 1 | 2 | 4 | Signal | Signal Level |
|---|---|---|---|---|---|
| 1 | ○ | ○ | ○ | Audio output B (Right) | Standard level : 0.5V rms<br>Output impedance : Less than 1k ohms* |
| 2 | ○ | ○ | ○ | Audio input B (Right) | Standard level : 0.5V rms<br>Output impedance : More than 10k ohms* |
| 3 | ○ | ○ | ○ | Audio output A (Left) | Standard level : 0.5V rms<br>Output impedance : Less than 1k ohm* |
| 4 | ○ | ○ | ○ | Ground (Audio) | |
| 5 | ○ | ○ | ○ | Ground (Blue) | |
| 6 | ○ | ○ | ○ | Audio input A (Left) | Standard level : 0.5V rms<br>Output impedance : Less than 10k ohm* |
| 7 | ○ | ● | ● | Blue input | 0.7 ± 3dB, 75 ohms, positive |
| 8 | ○ | ○ | ○ | Function select (AV control) | High state (9.5 - 12V) : Part mode<br>Low state (0 - 2V) : TV mode<br>Input impedance : More10k ohms<br>Input capacitance : Less than 2nF |
| 9 | ○ | ○ | ○ | Ground (Green) | |
| 10 | ○ | ○ | ○ | Open | |
| 11 | ○ | ● | ● | Green | |
| 12 | ○ | ○ | ○ | Open | |
| 13 | ○ | ○ | ○ | Ground (Red) | |
| 14 | ○ | ○ | ○ | Ground (Blanking) | |
| 15 | ○ | — | — | Red input | 0.7 ± 3dB, 75 ohms, positive |
| | — | ○ | ○ | (S signal) croma input | 0.7 ± 3dB, 75 ohms, positive |
| 16 | ○ | ● | ● | Blanking input (Ys signal) | High state (1 - 3V) Low state (0 - 0.4V)<br>Input impedance : 75 ohms |
| 17 | ○ | ○ | ○ | Ground (Video output) | |
| 18 | ○ | ○ | ○ | Ground (Video input) | |
| 19 | ○ | ○ | ○ | Video output | 1V ± 3dB, 75ohms,<br>positive sync : 0.3V (-3 + 10dB) |
| 20 | ○ | — | — | Video input | 1V ± 3dB, 75ohms,<br>positive sync : 0.3V (-3 + 10dB) |
| | — | ○ | ○ | Video input Y (S signal) | 1V ± 3dB, 75ohms,<br>positive sync : 0.3V (-3 + 10dB) |
| 21 | ○ | ○ | ○ | Common ground (plug, sheild) | |

○ Connected ● Not Connected (Open) * at 20Hz - 20kHz

| Pin No. | Signal | Signal Level |
|---|---|---|
| 1 | Ground | |
| 2 | Ground | |
| 3 | Y (S signal) input | 1V ± 3dB 75 ohm, positive Sync. 0.3V -3 + 10dB |
| 4 | C (S signal) input | 0.3V ± 3dB 75ohm, positive Sync. |



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**CAUTION**

**SHORT CIRCUIT THE ANODE OF THE PICTURE TUBE AND THE ANODE CAP TO THE METAL CHASSIS, CRT SHIELD, OR CARBON PAINTED ON THE CRT, AFTER REMOVING THE ANODE.**

**ATTENTION**

**APRES AVOIR DECONNECTE LE CAP DE L'ANODE, COURT-CIRCUITER L'ANODE DU TUBE CATHODIQUE ET CELUI DE L'ANODE DU CAP AU CHASSIS METALLIQUE DE L'APPAREIL, OU AU COUCHE DE CARBONE PEINTE SUR LE TUBE CATHODIQUE OU AU BLINDAGE DU TUBE CATHODIQUE.**

WARNING !!

AN ISOLATION TRANSFORMER SHOULD BE USED DURING ANY SERVICE TO AVOID POSSIBLE SHOCK HAZARD, BECAUSE OF LIVE CHASSIS.
THE CHASSIS OF THIS RECEIVER IS DIRECTLY CONNECTED TO THE AC POWER LINE.

ATTENTION !!

AFIN D'EVITER TOUT RISQUE D'ELECTROCUTION PROVENANT D'UN CHÁSSIS SOUS TENSION, UN TRANSFORMATEUR D'ISOLEMENT DOIT ETRE UTILISÉ LORS DE TOUT DÉPANNAGE.
LE CHÁSSIS DE CE RÉCEPTEUR EST DIRECTEMENT RACCORDÉ À L'ALIMENTATION SECTEUR.

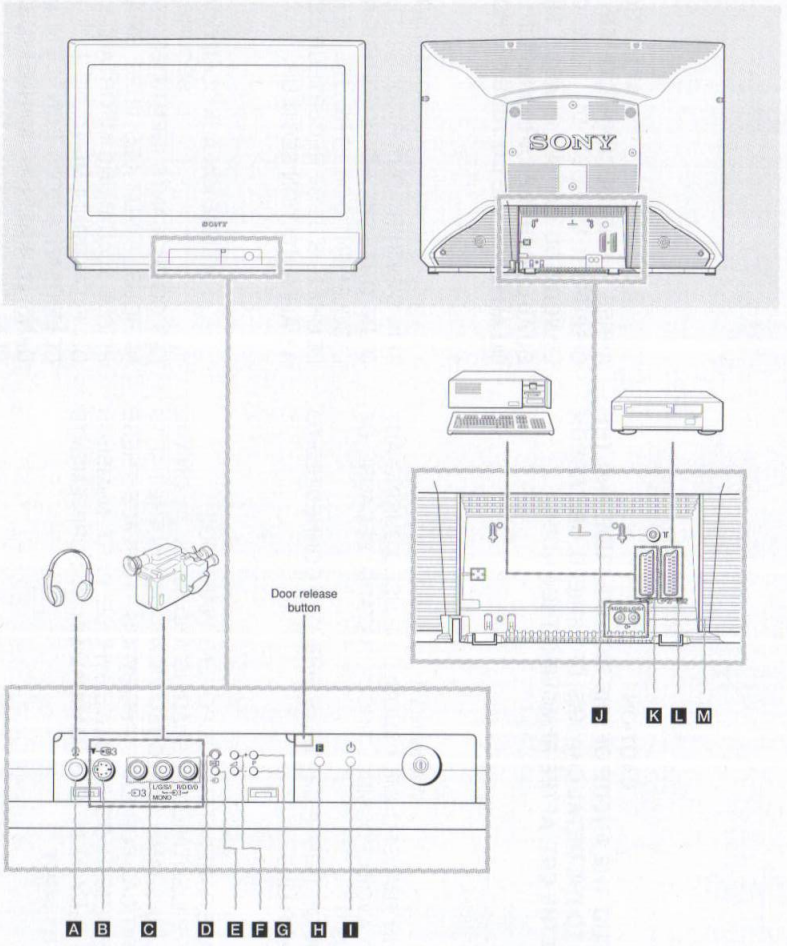
SAFETY-RELATED COMPONENT WARNING!!

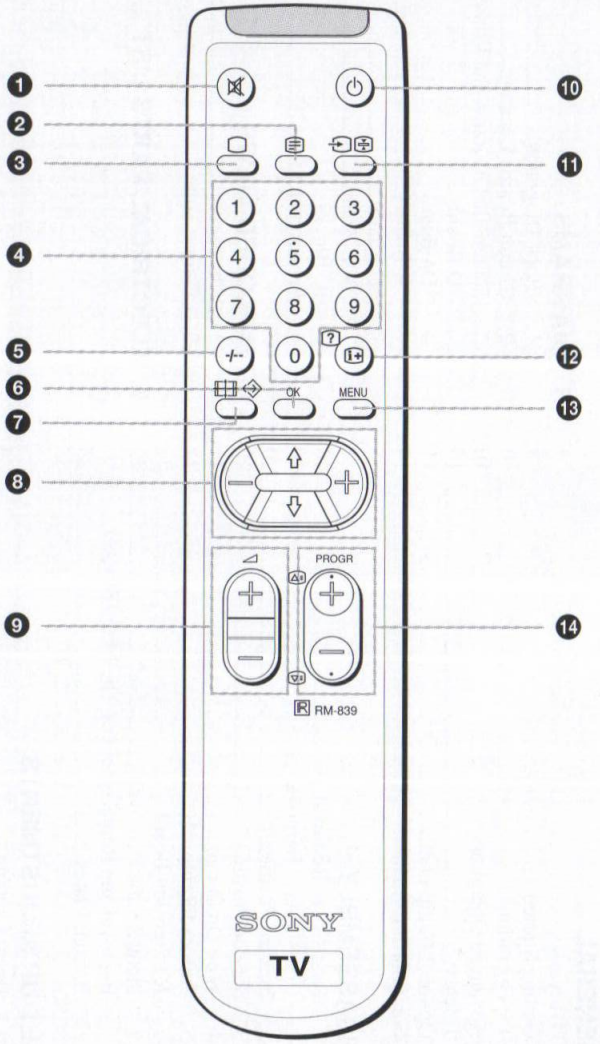
COMPONENTS IDENTIFIED BY SHADING AND MARK ⚠ ON THE SCHEMATIC DIAGRAMS, EXPLODED VIEWS AND, IN THE PARTS LIST ARE CRITICAL FOR SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

ATTENTION AUX COMPOSANTS RELATIFS À LA SÉCURITÉ!!

LES COMPOSANTS IDENTIFIÈS PAR UNE TRAME ET PAR UNE MARQUE ⚠ SUR LES VUES EXPLOSÉES ET LES LISTES DE PIECES SONT D'UNE IMPORTANCE CRITIQUE PUR LA SÉCURITÉ DU FONCTIONNEMENT. NE LES REMPLACER QUE PAR DES COMPOSANTS SONY DONT LE NUMÉRO DE PIÉCE EST INDIQUÉ DANS LE PRÉSENT MANUEL OU DANS DES SUPPLÉMENTS PUBLIÉS PAR SONY.

The operating instructions mentioned here are partial abstracts from the Operating Manual. The page numbers of the Operating Instruction Manual remain as in the manual.



# Overview

This section briefly describes the controls and the buttons on the TV set and on the Remote Commander. Please open the flap at the front of the instruction manual for illustrations of the TV set and the Remote Commander. Letters in boxes refer to the buttons on the TV set, numbers in circles to the buttons on the Remote Commander. For more information, refer to the page numbers given next to each description.

## TV buttons and Terminals

| Reference and Symbol | Name | Refer to Page |
|---|---|---|
| **Front of the set** | | |
| A | Headphones jack | 29 |
| B | S video input jack | 29 |
| C | Audio/video input jacks | 29 |
| D | Automatic Preset button | 11 |
| E | Input mode button | 12 |
| F | Volume control | 12 |
| G | P +/- | 12 |
| H | Standby mode indicator | 12 |
| I | Main power switch | 12 |
| **Rear of the set** | | |
| J | Aerial socket | 10 |
| K | 21 pin Euro connector | 29 |
| L | 21 pin Euro connector | 29 |
| M | Audio phono jacks | 29 |





## Remote Commander Operation

| Reference and Symbol | Name | Refer to Page |
|---|---|---|
| 1 | Muting on/off button | 12 |
| 2 | Teletext button | 13 |
| 3 | TV power on/TV mode button | 12, 13 |
| 4 | 1, 2, .... 9, 0 | Number buttons | 12 |
| 5 | - / - - | Double digit entering button | 12 |
| 6 | OK | OK (Confirmation) button | 14 |
| 7 | Screen format button<br>Teletext: Favourite pages button | 13<br>28 |
| 8 | Menu control | 14 |
| 9 | +/- | Volume control button | 12 |
| 10 | Standby button | 12 |
| 11 | Input mode button<br>Teletext: Freezing the subpage | 12<br>27 |
| 12 | On-screen display button<br>Teletext: reveal button | 12<br>27 |
| 13 | MENU | Menu on/off button | 14 |
| 14 | PROGR +/- | Programme buttons<br>Teletext: Page up/page down buttons | 12<br>13 |

## Step 1

# Connecting the Aerial

**(If you connect a VCR, skip to step 2)**

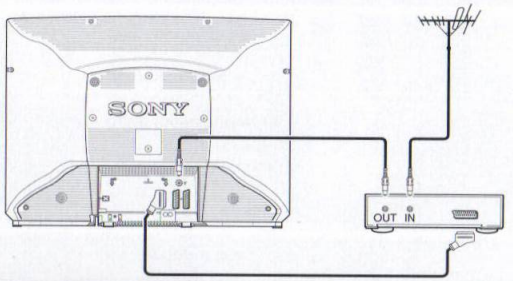
Insert the aerial plug tightly into the aerial socket J. Use a good-quality aerial cable (not supplied), corresponding to the relevant regulations.

## Step 2

# Connecting a VCR

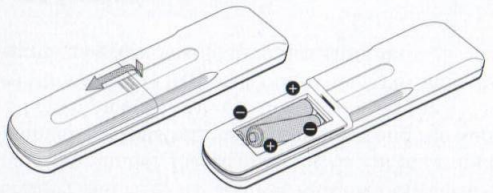
We recommend that you tune in the VCR signal to programme number "0". For details, see "Presetting Channels Manually" on page 16.

See "Connecting Optional Equipment" on page 29 for more information.




## Step 3

# Inserting the Batteries Into the Remote Commander



Respect your environment! Dispose of used batteries in an environmentally friendly way.



## Step 4

# Presetting Channels Automatically

With this function, the TV can automatically search and store up to 100 different channel numbers.

If you prefer manual presetting, refer to "Presetting Channels Manually" on page 16.

**1** Plug into mains.
Press the power switch ⏻ I on the TV set.

**2** Press and hold the button ▶▶| D on the TV set until the automatic menu is displayed and the search starts.

After all available channels are stored, the normal TV picture is shown.

**Note:** Channels are automatically stored as follows:

Programme 1 BBC1
Programme 2 BBC2
Programme 3 ITV
Programme 4 CH4 or S4C
Programme 5 (If available in your area)

# TV Operation

This section explains functions used whilst watching TV. Most operations are carried out using the remote commander (numbers in circles). All basic functions are also available on the TV set (letters in boxes). Open the flap at the front of the Instruction Manual to see the illustrations of the Remote Commander and the TV set.

**TV Operation**

| To | Press |
|---|---|
| Switch on | ⏻ I on TV |
| Switch off temporarily | ⏻ ⓾<br>TV is now in standby mode and ⏻ H indicator on TV lights up. |
| Switch on from standby mode | ▭ ❸, PROGR +/- ⓮ G or any number button ❹. |
| Switch off completely | ⏻ I on TV<br>To save energy, switch off your TV completely when TV is not in use. |
| Select programmes | PROGR +/- ⓮ G or number buttons ❹<br>For double digit number, press -/- - ❺ then the number<br>e.g. For 23, press -/- - ❺ then 2 and 3. |
| Display on screen indications | i+ ⓬. Press again to make the indications disappear. |
| Adjust the volume | + or - ❾ F |
| Mute the sound | 🔇 ❶. Press again to restore the sound. |
| View video input picture (see page 30 for detailed information) | ⇨ ⓫ E repeatedly until the desired video input appears. Press ▭ ❸ to restore the TV picture. |

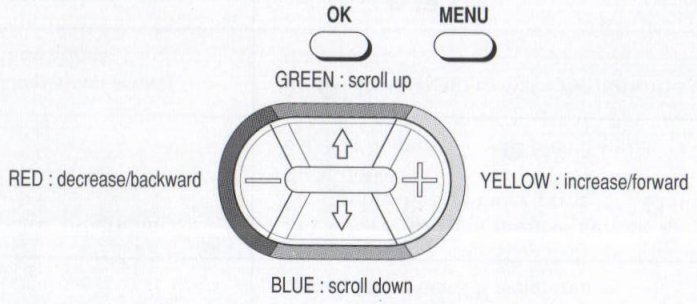
**TV Operation (continued)**

| To | Press |
|---|---|
| Operate Screen Mode (see page 18 for detailed information) | ▭ ❼.<br>4:3 —> Smart —> Zoom —> Wide<br>When using Zoom mode select 'Scroll' to see the cut-off part of the screen. |
| View teletext (see page 27 for detailed information) | |
| Switch on | ☰ ❷ |
| Select a page | three number buttons ❹ or ☰▲ ⓮ (for next page) or ☰▼ ⓮ (for previous page). |
| Use fastext | Blue, Green, Red or Yellow ❽. |
| Switch off | ▭ ❸ |

# Adjusting and Setting the TV Using the Menu

You can adjust and set various functions on the TV using the following remote commander buttons:

1 Press MENU ⓭ to switch menu on/off.
2 Use the menu control buttons ❽ and OK button ❻ (confirm) as follows:




# Choosing the Menu Language

This function enables you to change the language of the menu screens.

**1** Press power switch ⏻ **I** on the TV. If the standby indicator ⏻ **H** on the TV is lit, press ▭ ❸ or a number button ❹ on the Remote Commander.

**2** Press the MENU button ⓭ on the remote commander.


**3** Press blue or green ❽ to select the language you want then press yellow ❽.

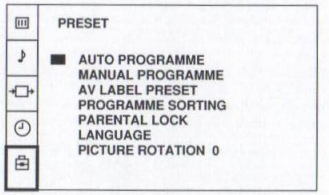
**4** Press the MENU button ⓭ to restore the normal TV picture.

# Presetting Channels Automatically

You may have already preset the channels automatically by using the method shown on page 11. You can also preset channels automatically by using the remote commander as follows:

**1** Press the MENU button ⓭.

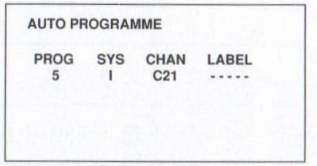
**2** Press blue or green ❽ to select the symbol 🧰 on the menu screen then press yellow ❽.




**3** Press blue or green ❽ to select 'AUTO PROGRAMME'.

**4** Press and hold yellow ❽ until the automatic menu is displayed and the search starts.

After all available channels have been preset, the normal TV picture is shown.




**Note:** Channels are automatically stored as follows:

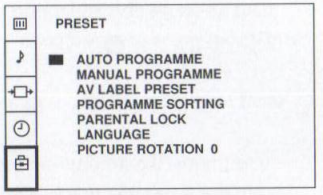
Programme 1 BBC1
Programme 2 BBC2
Programme 3 ITV
Programme 4 CH4 or S4C
Programme 5 (If available in your area)

# Presetting Channels Manually

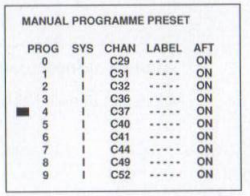
This function enables you to preset channels one by one to different programme numbers. This is also convenient for allocating programme numbers to various video input sources.

**1** Press the MENU button ⓭.

**2** Press blue or green ❽ to select the symbol 🧰 on the menu screen then press yellow ❽.




**3** Press blue or green ❽ to select 'MANUAL PROGRAMME' then press yellow ❽.




**4** Press blue or green ❽ to select on which programme number you want to preset a channel then press yellow ❽.

**5** Press blue or green ❽ to select the TV broadcast system 'I' or a video input source (AV1,AV2 ...) then press yellow ❽.

**6** Press yellow ❽.

**7** Select the first number digit of 'CHAN' (channel) then the second number digit of 'CHAN' with the number buttons ❹ on the remote commander

**or**

Press blue or green ❽ to search for the next available channel.

**8** If you want to store the channel, go to step 9. If not, select a new channel using the number buttons ❹ on the remote commander or press blue or green ❽ to resume the search.

**9** Press OK ❻.

**10** Repeat steps 4 to 9 to preset other channels.

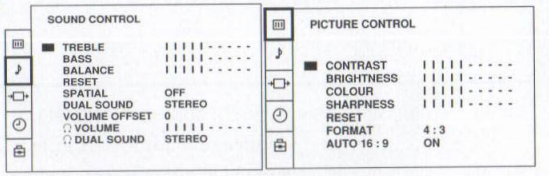
**11** Press the MENU button ⓭ to restore the normal TV picture.

# Adjusting the Picture and Sound

Although the picture and sound are adjusted at the factory, you can adjust them to suit your own taste.

**1** Press the MENU button ⓭.

**2** Press blue or green ❽ to select 📺 for picture control or ♪ for sound control then press yellow ❽.




**3** Press blue or green ❽ to select the desired item then press yellow ❽.

**4** Press red or yellow ❽ to alter the item then press OK ❻.
For the effect of each control, see the following tables.

**5** Repeat steps 3 and 4 to adjust the other items.

**6** Press the MENU button ⓭ to restore the normal TV picture.

## Adjusting the Picture and Sound (continued)

| PICTURE CONTROL | Effect |
|---|---|
| Contrast | • Lower —— I —— Higher |
| Brightness | • Darker —— I —— Brighter |
| Colour | • Less —— I —— More |
| Sharpness | • Softer —— I —— Sharper |
| Hue | • Greenish —— I —— Reddish (NTSC signals only) |
| Reset | • Resets picture to the factory preset levels. |
| Format | • 4:3 —> Smart —> Zoom —> Wide |

4:3 for normal ratio 4:3

Smart for imitation of wide screen effect (16:9) for 4:3 broadcasts

Zoom for imitation of wide screen effect (16:9) for movies broadcast in cinemascopic format

When 'Zoom' is selected, you can scroll the screen to see the cut-off part (e.g. subtitles) as follows:

1 Press blue ❽ to select 'Scroll' then press yellow.

2 Press red or yellow ❽ to scroll the picture upwards or downwards (-5 to +5) then press OK ❻.

Wide for 16:9 broadcasts

| | |
|---|---|
| Auto 16:9 | • Automatically selects 16:9 picture mode when receiving a 16:9 broadcast (set to 'Off' if signal reception is weak) |



## Adjusting the Picture and Sound (continued)

| SOUND CONTROL | Effect |
|---|---|
| Treble | • Less —— I —— More |
| Bass | • Less —— I —— More |
| Balance | • Left —— I —— Right |
| Reset | • Resets sound to the factory preset levels. |
| Spatial | • Acoustic sound effect. |
| Dual Sound | • A: Left channel —> B: Right channel —> stereo —> mono |
| Volume Offset | • Presets the volume level for individual programmes. -12 —— 0 —— +12 |
| ∩ Volume | • Adjusts the headphone volume. |
| ∩ Dual Sound | • Selects the headphone channels. A: Left channel —> B: Right channel —> stereo —> mono |

# Manual Fine-Tuning

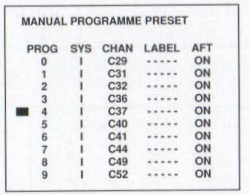
Normally, the automatic fine-tuning (AFT) function is operating.

If the picture is distorted however, you can manually fine-tune the TV to obtain a better picture reception.

**1** Press the MENU button ⓭.

**2** Press blue or green ❽ to select the symbol on the menu screen then press yellow ❽.

**3** Press blue or green ❽ to select 'MANUAL PROGRAMME' then press yellow ❽.




**4** Press blue or green ❽ to select the programme number which corresponds to the channel you want to manually fine-tune.

**5** Press yellow ❽ repeatedly until the AFT position changes colour.

**6** Press blue or green ❽ to fine-tune the channel frequency (-15 to +15).

**7** Press OK ❻.

**8** Repeat steps 4 to 7 to fine-tune other channels.

**9** Press the MENU button ⓭ to restore the normal TV picture.

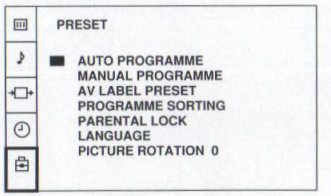
# Sorting Programme Positions

This function enables you to exchange the programme positions.

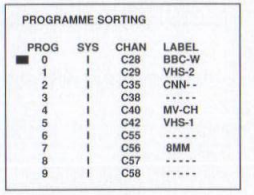
**1** Press the MENU button ⓭.

**2** Press blue or green ❽ to select the symbol on the menu screen then press yellow ❽.

**3** Press blue or green ❽ to select 'PROGRAMME SORTING' then press yellow ❽.




**4** Press blue or green ❽ to select the channel you want to exchange then press yellow ❽.




**5** Press blue or green ❽ to select the programme number you wish the channel chosen in step 4 to appear on, then press yellow ❽.

**6** Repeat steps 4 to 5 if you wish to exchange other programme positions.

**7** Press the MENU button ⓭ to restore the normal TV picture.

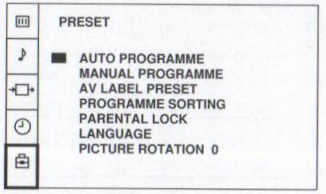
## Using Parental Lock

This function enables you to prevent undesirable broadcasts from appearing on the screen. We suggest you use this function to prevent children from watching programmes which you consider unsuitable.

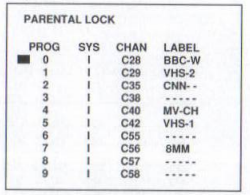
**1** Press the MENU button ⓭.

**2** Press blue or green ❽ to select the symbol on the menu screen then press yellow ❽.

**3** Press blue or green ❽ to select 'PARENTAL LOCK' then press yellow ❽.




**4** Press blue or green ❽ to select the channel you want to block then press yellow ❽. A symbol appears before the programme number to indicate that this channel is now blocked.




**5** Repeat step 4 if you wish to block other channels.

**6** Press the MENU button ⓭ to restore the normal TV picture.

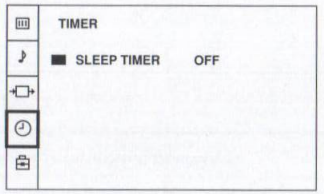
**Note:** To unblock, press yellow ❽ after selecting the channel to unblock in the 'PARENTAL LOCK' menu.

## Using the Sleep Timer

This function enables you to select a time period after which the TV automatically switches into standby mode.

**1** Press the MENU button ⓭.

**2** Press blue or green ❽ to select the symbol on the menu screen then press yellow ❽.




**3** Press yellow ❽.

**4** Press red or yellow ❽ to set time delay and press OK ❻.

OFF 0:30 1:00 1:30 ..... 3:30 4:00

One minute before the TV switches into standby mode, a message is displayed on the screen.

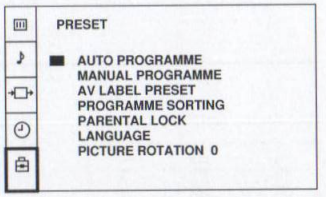
**5** Press the MENU button ⓭ to restore the normal TV picture.

# Adjusting the Picture Rotation

If, due to the earth magnetism, the picture slants, you can use the function 'Picture Rotation' to readjust the picture.

**1** Press the MENU button ⓭.

**2** Press blue or green ❽ to select the symbol 🧰 on the menu screen then press yellow ❽.




**3** Press blue or green ❽ to select 'PICTURE ROTATION' then press yellow ❽.

**4** Press red or yellow ❽ to adjust the picture rotation then press OK ❻. The adjusting range is -5 to +5.

**5** Press the MENU button ⓭ to restore the normal TV picture.

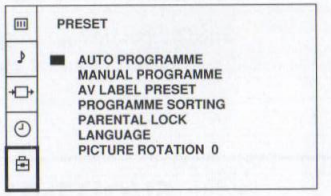
# Skipping Programme Positions

This function enables you to skip unused programme positions when selecting them with the PROGR+/- buttons. However, you can still watch the channel of the skipped programme position by using the number buttons.

**1** Press the MENU button ⓭.

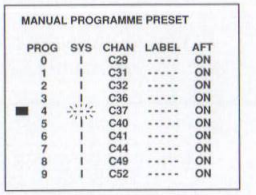
**2** Press blue or green ❽ to select the symbol 🧰 on the menu screen then press yellow ❽.

**3** Press blue or green ❽ to select 'MANUAL PROGRAMME' then press yellow ❽.




**4** Press blue or green ❽ to select the programme position you want to skip then press yellow ❽.

**5** Press blue or green ❽ until '- - -' appears in the 'SYS' position.




**6** Press OK ❻.

**7** Repeat steps 4 to 6 to skip other programme positions.

**8** Press the MENU button ⓭ to restore the normal TV picture.

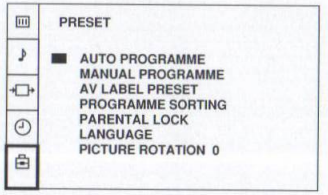
# Captioning a Station Name

Names for channels are usually automatically taken from teletext if available. You can however name a channel or an input video source using up to five characters (letters or numbers).

**1** Press the MENU button ⓭.

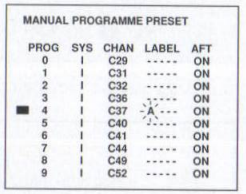
**2** Press blue or green ❽ to select the symbol on the menu screen then press yellow ❽.

**3** Press blue or green ❽ to select 'MANUAL PROGRAMME' then press yellow ❽.




**4** Press blue or green ❽ to select the channel you wish to caption then press yellow ❽ repeatedly until the first element of the 'LABEL' position is highlighted.

**5** Press ❽ blue or green to select a letter or number and press yellow ❽ (select '-' for a blank). Select the other four characters in the same way.




**6** After selecting all the characters, press OK ❻.

**7** Repeat steps 4 to 6 to caption names for other channels.

**8** Press the MENU button ⓭ to restore the normal TV screen.





# Teletext

Most TV channels broadcast information via teletext. The index page of the broadcaster (usually page 100) gives you information on how to use the service.
Make sure you use a TV channel with a strong signal, otherwise teletext errors may occur.

## Switching Teletext On and Off

**1** Select the channel which carries the teletext service you wish to view.

**2** Press ❷ to display teletext.
If no teletext signal is broadcast, the indication P100 is displayed on a black screen.

**3** Input three digits for the page number using the number buttons ❹.
The page counter searches for the page and after some seconds the page is displayed.

**4** Press ❸ to return to the normal TV picture.

## Using Other Teletext Functions

| To | Press |
|---|---|
| Access the next or preceding teletext page | ⓮ for the next page or ⓮ for the preceding page |
| Mix the mode | ❷ when in teletext mode. Now the teletext page is superimposed on the TV programme. Press again to return to the normal teletext display. |
| Freeze a teletext subpage | ⓫. Press once again to cancel. |
| Reveal hidden information (eg: answers to a quiz) | ⓬. Press once again to cancel. |

## Favourite page system

You can store up to four of your favourite teletext pages per Teletext service. In this way you have quick access to the pages you frequently use.

### Storing pages

1 Use the number buttons ❹ to select the page you would like to store.

2 Press ◈ ❼ twice.
The colour prompts at the bottom of the screen flash.

3 Press red, green, blue or yellow ❽ to store the selected page.
The page is now stored on this colour.

Repeat steps 1 to 3 for the other 3 pages.

### Displaying the Favourite Pages

1 Press ◈ ❼.

2 Press red, green, blue or yellow ❽ to select the desired page.

Make sure you press ◈ ❼, otherwise the normal Fastext facility operates.

## Using Fastext

(only available, if the TV station broadcasts Fastext signals)

With Fastext you can access pages with one key stroke . When Fastext is broadcast, a colour-coded menu appears at the bottom of the screen. The colours of this menu correspond to the red, green, yellow and blue colours on the Remote Commander.

Press the colour button ❽ that corresponds to the colour-coded menu. The selected page is displayed after some seconds.





# Connecting Optional Equipment

There is a wide range of optional equipment you can connect to your TV. Refer to the illustrations on the front flap page of this manual.

| Symbol | Acceptable input signals | Available output signals |
|---|---|---|
| 1 K | Normal audio/video and RGB | Audio/video from TV tuner |
| 2/S 2 L | Normal audio/video and S video | Audio/video from selected source |
| 3, 3 B<br>S 3 C | Normal audio/video and S video | No output |
| M | No inputs | Audio from selected source |

### Connecting Headphones

Plug in the headphones to the ∩ socket A on the front of the TV.

### About S video input

Video signals may be separated into Y (luminance) and C (chrominance) signals. Separating the two signals prevents interference and thus improves the picture quality.

### Notes on connections:

- If the picture or sound is distorted, move the VCR away from the TV.
- When connecting a monaural VCR, connect only the white jack to both the TV and VCR.
- Select 'TV' for output in the 'VIDEO CONNECTION' menu if you connect a decoder to 2/S 2 L (see page 30).

# Selecting Input and Output Signals

This section explains how to select the output signal from 2/S2 L and how to select and view the input. You can use direct access buttons 11 E to select the input or the menu system to select input and output.

## Selecting Input Signals With Direct Access Buttons

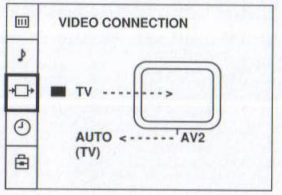
Press 11 E repeatedly.
Press 3 to restore the normal TV picture.

| Symbol on the screen | Input Signal |
|---|---|
| 1 | Audio/video through Euro AV connector K |
| | RGB through Euro AV connector K |
| 2 | Audio/video through Euro AV connector L |
| S2 | S video through Euro AV connector L |
| 3 | Audio/video through the phono jacks C |
| S3 | S video through the 4 pin DIN B |

## Selecting With the Video Connection Menu

1 Press the MENU button 13.

2 Press blue or green 8 to select for "VIDEO CONNECTION" then press yellow 8.




3 Press blue or green 8 to select input (for the TV screen) or output (for 2/S2 L) then press yellow 8.

4 Press red or yellow 8 repeatedly to select the desired input or output source then press OK 6.

5 Press the MENU button 13 to restore the normal TV picture.

**Note:** If you select 'AUTO' for output, the output source automatically becomes the same as the desired input source.

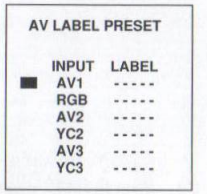
# Using AV Label Preset

This function enables you to label the input sources using up to five characters (letters or numbers).

1 Press the MENU button 13.

2 Press blue or green 8 to select the symbol on the screen then press yellow 8.

3 Press blue or green 8 to select 'AV LABEL PRESET' then press yellow 8.




4 Press blue or green 8 to select the desired input source then press yellow 8.

5 Press blue or green 8 to select a letter or number then press yellow 8 (select '-' for a blank).
Select the other four characters in the same way.

6 After selecting all the characters, press OK 6.

7 Repeat steps 4 to 6 to label other input sources.

8 Press the MENU button 13 to restore the normal TV screen.

# Troubleshooting

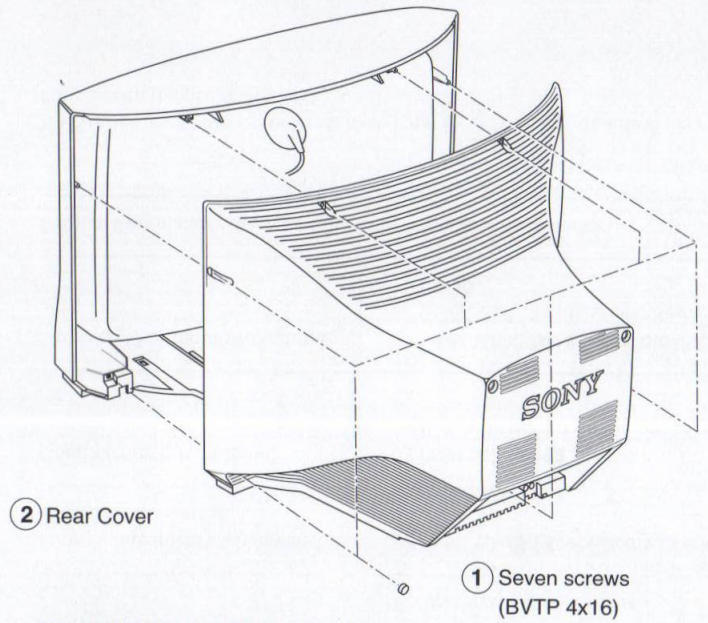
Here are some simple solutions to the problems which affect the picture and sound.

| Problem | Solution |
|---|---|
| No picture (screen is dark), no sound | • Plug the TV in.<br>• Press ⏻ I on the TV. (If ⏻ indicator H is on, press ▭ 3 or a programme number 4 on the Remote Commander.)<br>• Check the aerial connection.<br>• Check if the selected video source is on.<br>• Turn the TV off for 3 or 4 seconds then turn it on again using ⏻ I. |
| Poor or no picture (screen is dark), but good sound | • Press MENU 13 to enter the 'PICTURE CONTROL' menu and adjust 'Contrast', 'Brightness' and 'Colour'. |
| Poor picture quality when watching an RGB video source. | • Press ⇥ 11 E repeatedly to select ⇥. |
| Good picture but no sound | • Press ◿ + 9 F.<br>• If 🔇 is displayed on the screen, press 🔇 1. |
| No colour for colour programmes | • Press MENU 13 to enter the 'PICTURE CONTROL' menu, select 'Reset' then press OK 6. |
| Remote Commander does not function. | • Replace the batteries. |

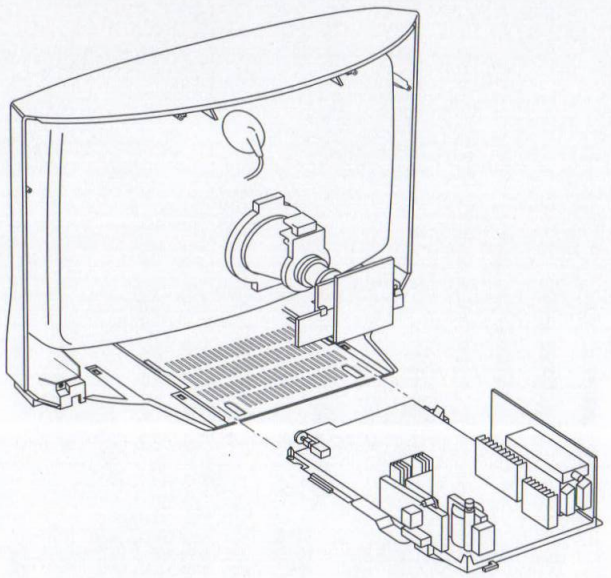
If you continue to have problems, have your TV serviced by qualified personnel. Never open the casing yourself.

# SECTION 2
# DISASSEMBLY

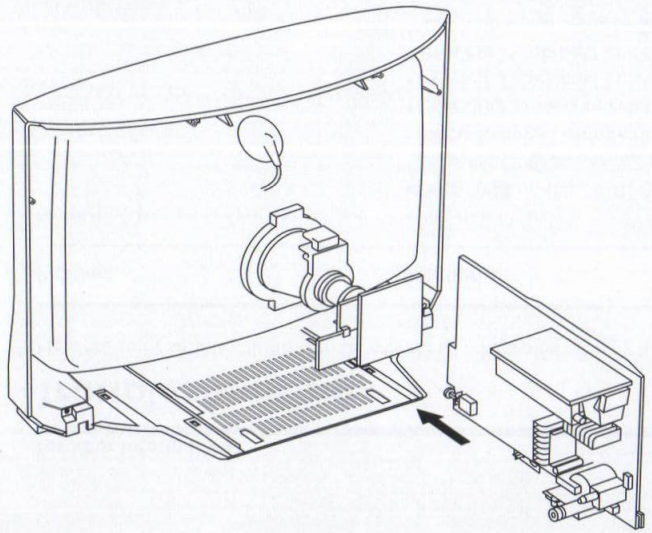
## 2-1. REAR COVER REMOVAL



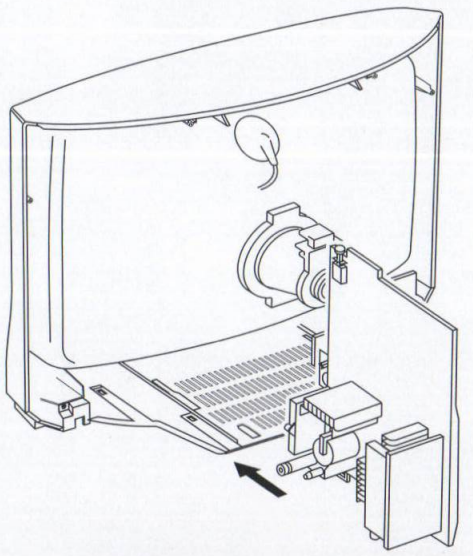

## 2-2. CHASSIS ASSY REMOVAL



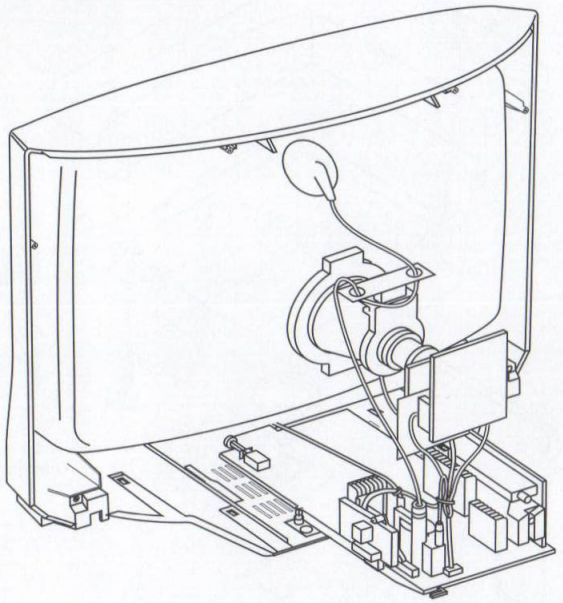
## 2-3-1. SERVICE POSITION (1)



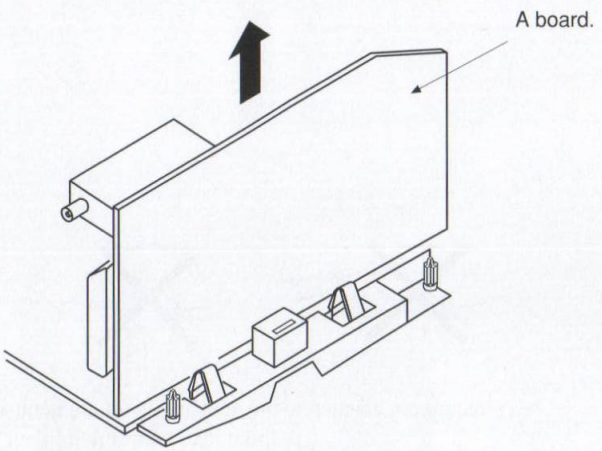
## 2-3-2. SERVICE POSITION (2)



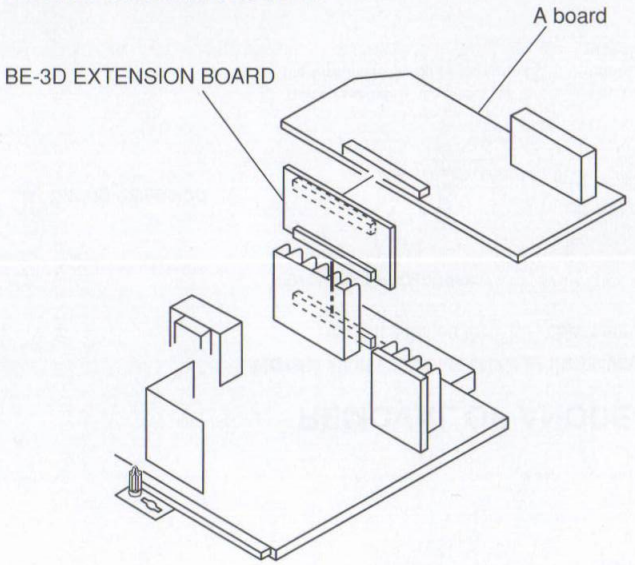
## 2-4. WIRE DRESSING



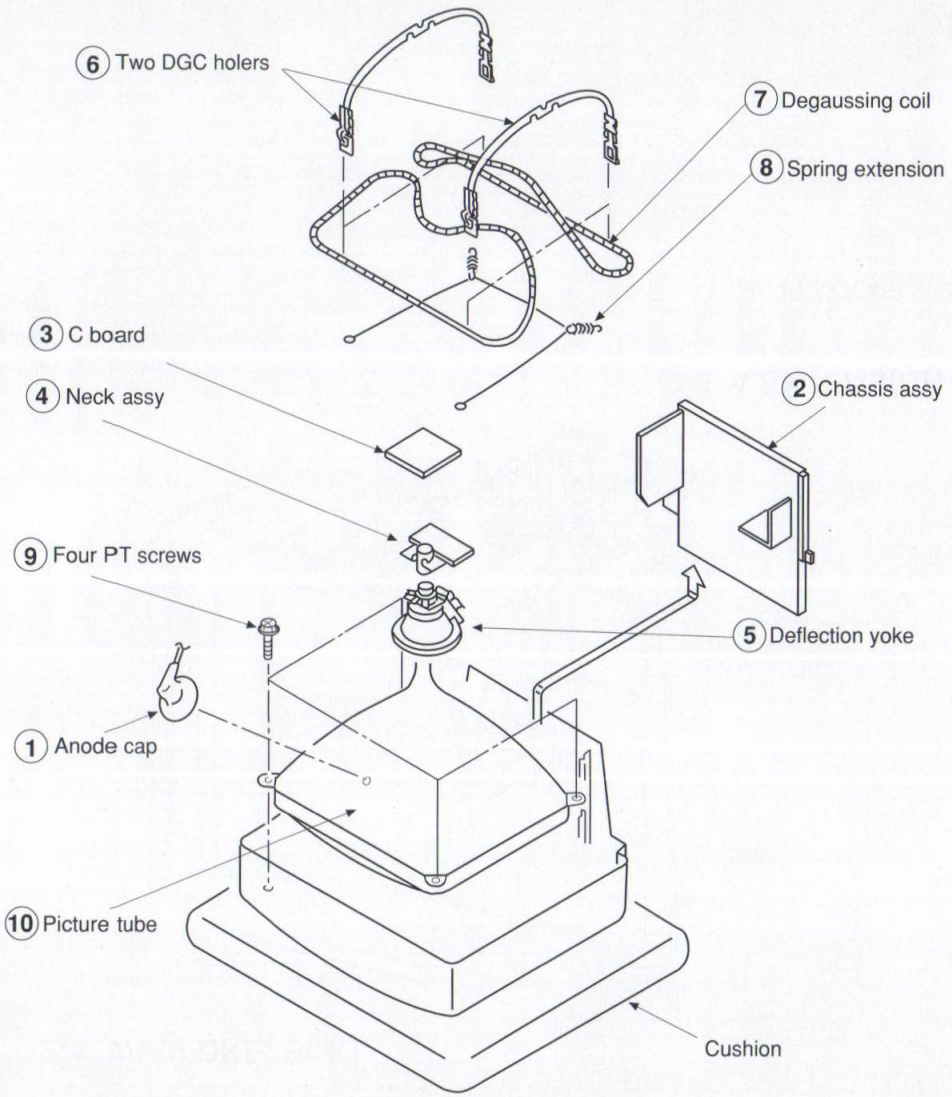
## 2-5. A BOARD REMOVAL




## 2-6. A EXTENSION BOARD



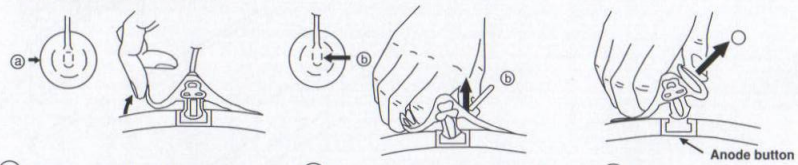
## 2-7. PICTURE TUBE REMOVAL




## • REMOVAL OF ANODE-CAP

**Note:** Short circuit the anode of the picture tube and the anode cap to the metal chassis, CRT shield or carbon paint on the CRT, after removing the anode.

* REMOVING PROCEDURES.




① Turn up one side of the rubber cap in the direction indicated by the arrow ⓐ

② Using a thumb pull up the rubber cap firmly in the direction indicated by the arrow ⓑ

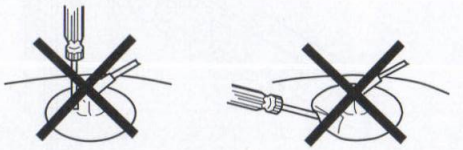
③ When one side of the rubber cap is separated from the anode button, the anode-cap can be removed by turning up the rubber cap and pulling it up in the direction of the arrow ⓒ

## • HOW TO HANDLE AN ANODE-CAP

① Don't damage the surface of anode-cap with sharp shaped material !

② Don't press the rubber hardly not to hurt inside of anode-caps !
A metal fitting called as shatter-hook terminal is built into the rubber.

③ Don't turn the foot of rubber over hardly !
The shatter-hook terminal will stick out or damage the rubber.



## REMOVAL AND REPLACEMENT OF THE MAIN-BRACKET BOTTOM PLATES.

**For safety reasons, on no account should the plates be removed and not refitted after servicing.**

### (1) REMOVING THE PLATES

In the event of servicing being required to the solder side of the D Board printed circuit, the bottom plates fitted to the main chassis bracket require to be removed. This is performed by cutting the gates with a sharp wire cutter at the locations shown and indicated by arrows.

**Note :** There are 5 plates fitted to the main bracket and secured by 4 or 6 gates. Only remove the necessary plate to gain access to the circuit board.

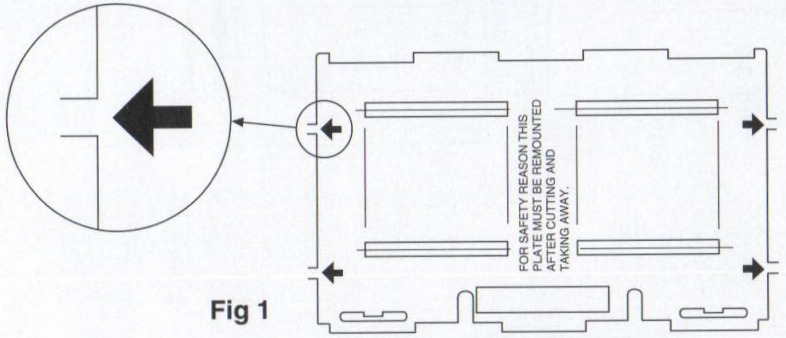



Fig 1

### (2) REFITTING THE PLATES

Because the plates differ in size it is important that the correct plates are refitted in their original location.
The plates are identified by markings A-B-C-D-E on their top side.

1. Identify the plate by locating its marking.
2. Turn the plate over noting where the marking is located.
3. Locate the corresponding marking indicated on the main chassis bracket. See Fig 2.
4. Refit the plate as indicated in Fig 3 with the markings located next to each other.

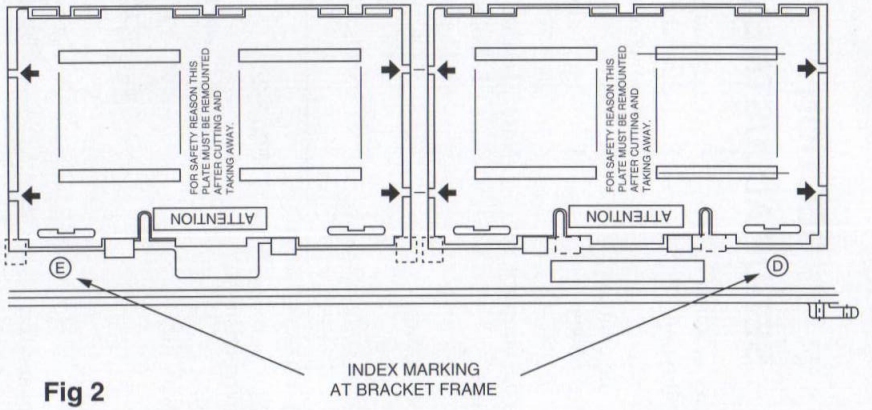



Fig 2

In the event of the plates requiring to be removed at a later stage, this can be achieved by inserting a screwdriver in the snap-recess indicated as in Fig 4 and lifting out.

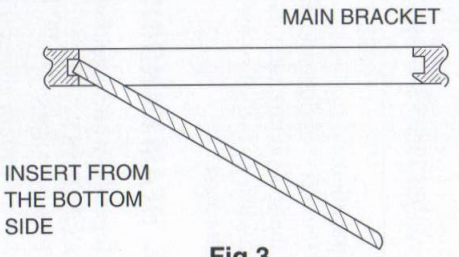



Fig 3

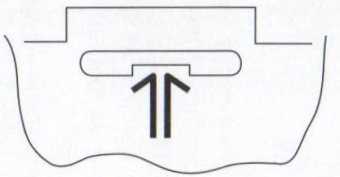


Fig 4

# SECTION 3
# SET-UP ADJUSTMENTS

- When complete readjustment is necessary or a new picture tube is installed, carry out the following adjustments.
- Unless there are specific instructions to the contrary, carry out these adjustments with the rated power supply.
- Unless there are specific instructions to the contrary, set the controls and switches to these settings :

◑ Contrast ..... 80% (or remote control normal)
☼ Brightness ..... 50%

- Carry out the following adjustments in this order :

1. Beam landing
2. Convergence
3. Focus
4. White balance

**Note:** Testing equipment required.
1. Color bar/pattern generator
2. Degausser
3. DC power supply
4. Digital multimeter
5. Oscilloscope

**Preparation:**
- In order to reduce the influence of geomagnetism on the set's picture tube, face it east or west.
- Switch on the set's power and degauss with the degausser.

## 3-1. BEAM LANDING

1. Input the white signal with the pattern generator.
   CONTRAST, BRIGHTNESS } normal
2. Set the pattern generator raster signal to red.
3. Move the deflection yoke forward and adjust with the purity control so that the red is at the centre and the blue and the green take up equally sized areas on each side. (See Fig. 3-1 - 3-3)
4. Move the deflection yoke forward and adjust so that the entire screen becomes red. (See Fig. 3-1)
5. Switch the raster signal to blue, then to green and verify the condition.
6. When the position of the deflection yoke has been decided, fasten the deflection yoke with the screws.
7. If the beam does not land correctly in all the corners, use a magnet to adjust it. (See Fig. 3-4)

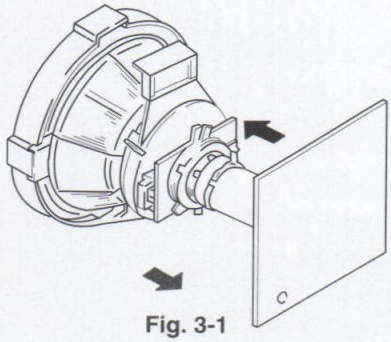
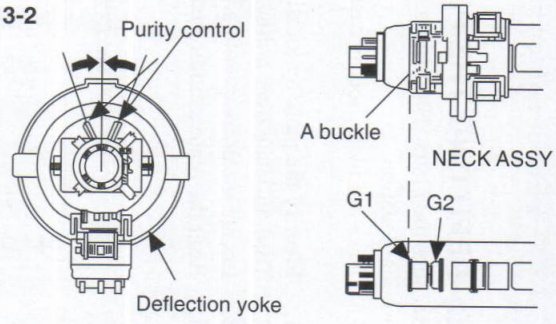


Fig. 3-1

Fig. 3-2



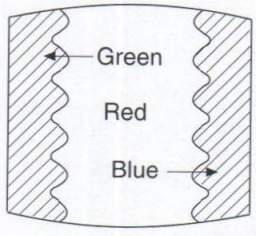



Fig. 3-3

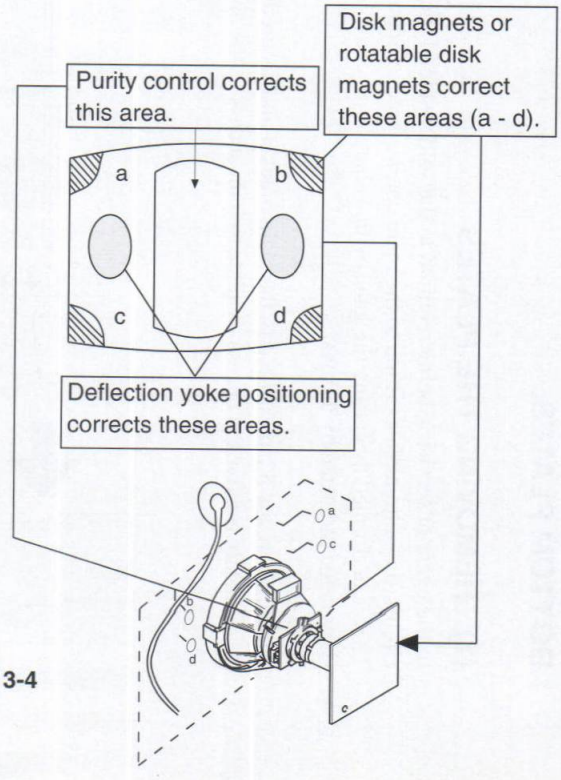


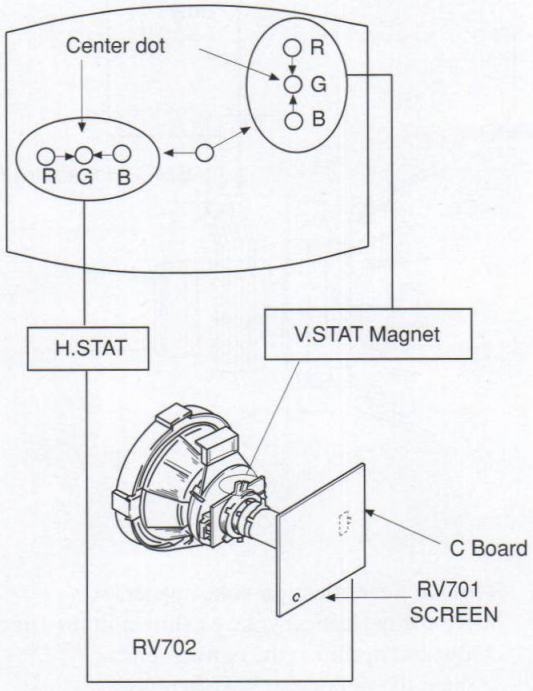
Fig. 3-4

## 3-2. CONVERGENCE

**Preparation:**

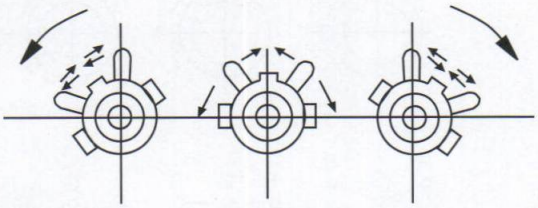
- Before starting this adjustment, adjust the focus, horizontal size, and vertical size.
- Minimize the brightness setting.
- Provide a dot pattern.

### (1) Horizontal and vertical static convergence

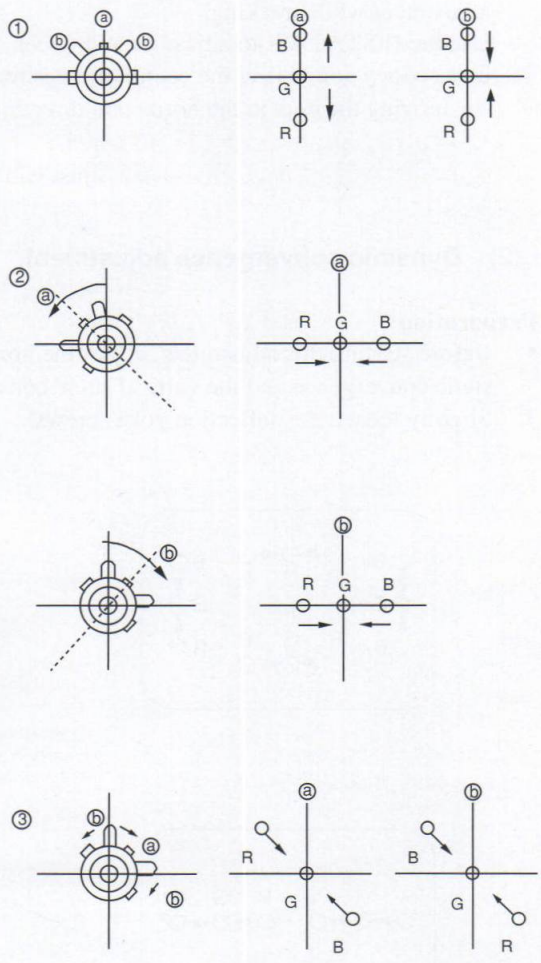



1. (Moving horizontally), adjust the H.STAT control so that the red, green, and blue points are on top of each other at the centre of the screen.
2. (Moving vertically), adjust the V.STAT magnet so that the red, green, and blue points are on top of each other at the centre of the screen.
3. If the H.STAT variable resistor cannot bring the red, green, and blue points together at the centre of the screen, adjust the horizontal convergence with the H.STAT variable resistor and the V.STAT magnet in the manner given below.
   (In this case, the H.STAT variable resistor and the V.STAT magnet influence each other)

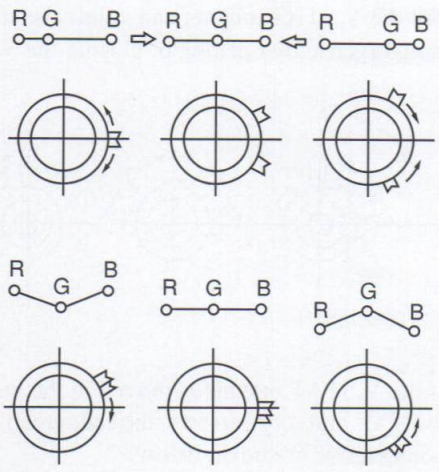
- Tilt the V.STAT magnet and adjust the static convergence by opening or closing the V.STAT magnet.

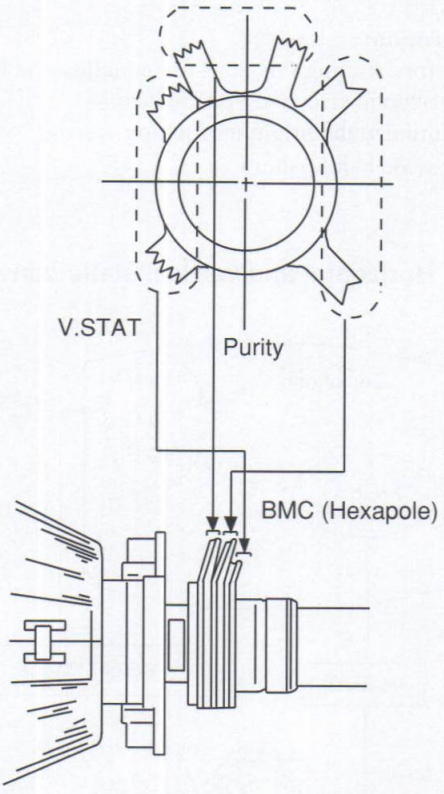


4. If the V.STAT magnet is moved in the direction of the (a) and (b) arrows, the red, green, and blue points move as shown below.



- Operation of BMC (Hexapole) Magnet



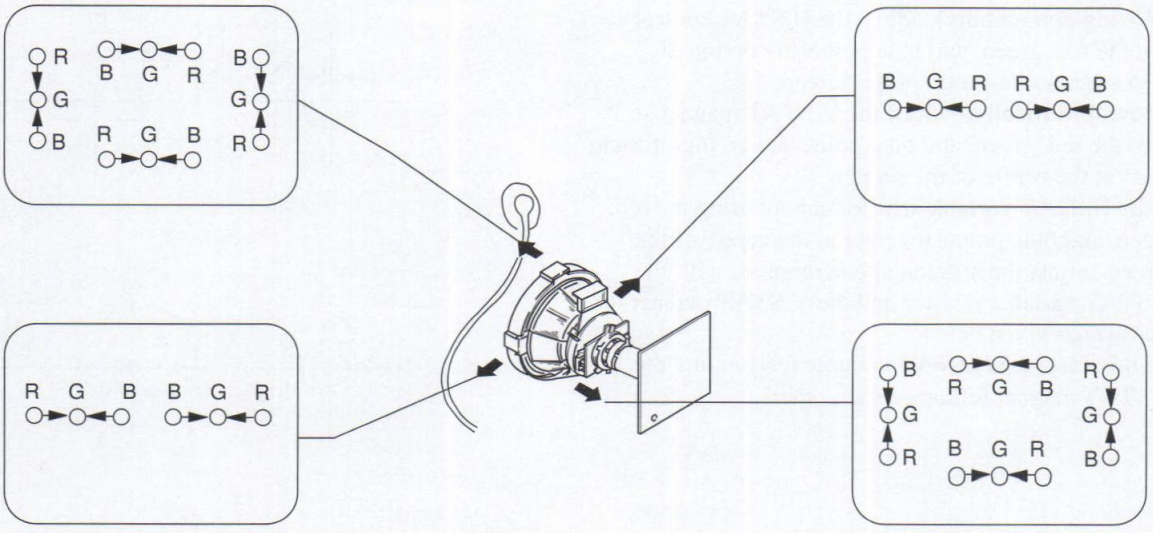

- The respective dot position resulting from moving each magnet interact, so be sure to perform adjustment while tracking.
  Use the H.STAT VR to adjust the red, green, and blue dots so they coincide at the centre of the screen (by moving the dots in the horizontal direction).

### (2) Dynamic convergence adjustment.

**Preparation:**

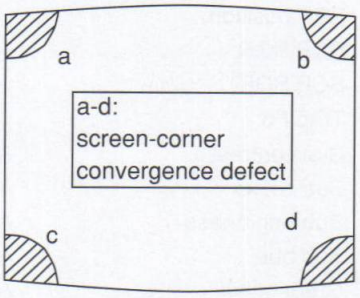
- Before starting this adjustment, adjust the horizontal static convergence and the vertical static convergence.

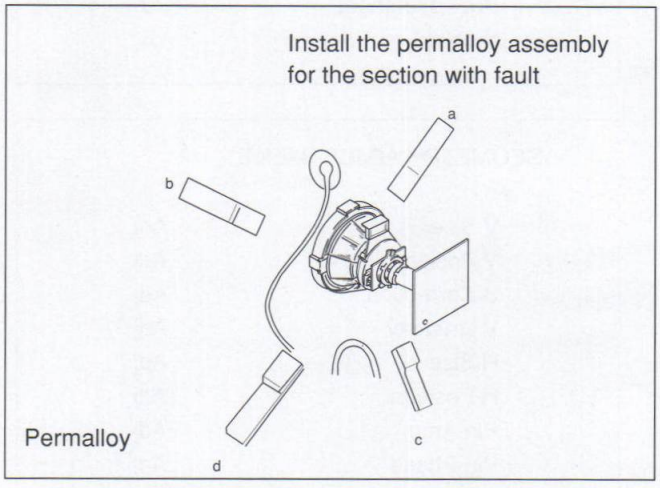
1. Slightly loosen the deflection yoke screws.
2. Remove the deflection yoke spacer.
3. Move the deflection yoke as shown in the figure below and optimize the convergence.
4. Tighten the deflection yoke screws.
5. Re-install the deflection yoke spacer.



### (3) Screen corner convergence.

If you are unable to adjust the corner convergence properly, correct them with the use of permalloy assemblies.




## 3-3. WHITE BALANCE

**G2 Setting**

1. Switch the set into AV mode (apply no signal to the AV connectors).
2. Connect a Volt Meter to Test Point 1 on the A board.
3. Adjust RV01 to obtain a voltage of 3.0V ±0.3V.

**White balance adjustment**

1. Input an all white signal from the pattern generator.
2. Enter into the service mode.
3. Enter into Picture Adjustment service menu.
4. Select sub-contrast and adjust to 7.
5. Select the Green Drive and adjust so that the white balance becomes optimum.
6. Select the Blue Drive and adjust so that the white balance becomes optimum.
7. Press the TV button to return to TV operation.

PICTURE ADJUSTMENT

| | |
|---|---|
| AFC mode | 1 |
| REF position | 2 |
| SCP BGR | 1 |
| SCP BGF | 1 |
| Trap Fo | 0 |
| Sub contrast | Adj |
| Sub colour | Adj |
| Sub brightness | Adj |
| Sub hue | Adj |
| Green drive | Adj |
| Blue drive | Adj |
| Green cutoff | Adj |
| Blue cutoff | Adj |
| Gamma | 0 |
| Pre / overshoot | 0 |
| Y delay | 3 |

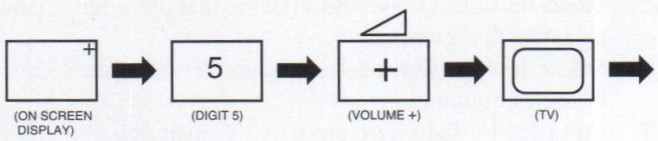
# SECTION 4
# CIRCUIT ADJUSTMENTS

## 4-1. ELECTRICAL ADJUSTMENTS

Service adjustment to this model can be performed with the supplied remote commander RM-839.

### HOW TO ENTER INTO SERVICE MODE

1. Turn on the main power switch of the set and enter into standby mode.
2. Press the following sequence of buttons on the Remote Commander.




"TT-- " will appear in the top right corner of the screen. Other status information will also be displayed.

3. Press MENU on the commander to obtain the following menu on the screen.

TEST MENU

> Picture adjustment
Geometry
Wide
MSP
IC status
Current TV status

4. Move to the corresponding adjustment using the button on the commander.
5. Press the + button to enter the selected adjustment.
6. Turn off the power to quit the service mode when adjustments are completed.

PICTURE ADJUSTMENT

| | |
|---|---|
| AFC mode | 1 |
| REF position | 3 |
| SCP BGR | 1 |
| SCP BGF | 1 |
| Trap Fo | 7 |
| Sub contrast | Adj |
| Sub colour | Adj |
| Sub brightness | Adj |
| Sub hue | Adj |
| Green drive | Adj |
| Blue drive | Adj |
| Green cutoff | Adj |
| Blue cutoff | Adj |
| Gamma | 0 |
| Pre / overshoot | 0 |
| Y delay | 5 |

GEOMETRY ADJUSTMENT

| | |
|---|---|
| V Size | Adj |
| V Position | Adj |
| S Correction | Adj |
| V Linearity | Adj |
| H Size | Adj |
| H Position | Adj |
| Pin Amp | Adj |
| Pin Phase | Adj |
| AFC Bow | Adj |
| AFC Angle | Adj |
| EHT V | Adj |
| EHT H | Adj |
| Corner Pin | Adj |

WIDE

| | |
|---|---|
| V Aspect | 43 |
| V Scroll | 31 |
| Upper V Lin | 0 |
| Lower V Lin | 0 |
| Left Blanking | 1 |
| Right Blanking | 11 |

| MSP | |
|---|---|
| AGC ON/OFF | ON |
| Constant gain CDB | 0 |
| FM prescale FMP | 36 |
| Zwei mono-st WHI | 36 |
| Zwei st-mono WLO | 18 |
| Zwei mono-bi WMH | 36 |
| Zwei bi-mono WLO | 18 |
| Time zwei WML | 41 |
| Fawct limit | 10 |
| Fawct soll init FAW | 12 |
| Fawer tol | 2 |
| Nicam Err Max CCT | 10 |
| Nicam Err Min | 0 |
| Nicam Prescale NIP | 97 |
| Time Nicam | 31 |
| Carrier mute CRM | OFF |
| Audio clock ACO | HIZ |
| Scart prescale | 25 |
| Scart volume | 64 |

| IC STATUS (CXA2000 / CXA2040) | |
|---|---|
| CXA2000 | |
| H lock | 1 |
| IKR | 1 |
| VNG | 0 |
| X-RAY | 0 |
| Colour system | 3 |
| CV1 Sync | 1 |
| CXA2040 | |
| Sync sep | 1 |
| S1 mode pin | 01 |
| S2 mode pin | 01 |
| TUNER | |
| Tuner status | 01101011 |

| TV STATUS | |
|---|---|
| Text system | C TEXT/TV TEXT |
| Dolby | NO/YES |
| Text language set | WEST/EAST/RUSSIAN |
| Menu language set | WEST/EAST/RUSSIAN |
| Destination | B/D/U/K/L/E/A/R |
| Scart 16:9 | OFF/ON |
| RGB priority | OFF/ON |
| Ageing | OFF/ON |
| Size | 29/25 |
| Colour trap sw | SECAM/ALL |
| Velocity mod | ON/OFF |
| AFT STATUS | WINDOW/HIGH/LOW |

## SUB BRIGHTNESS ADJUSTMENT

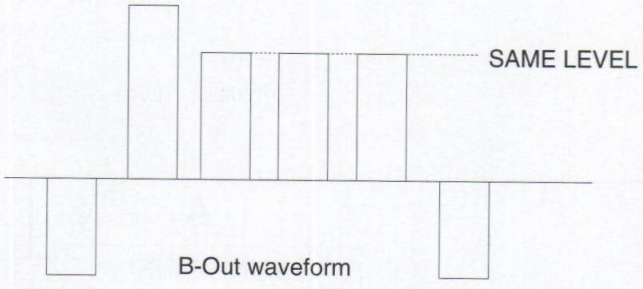
1. Input a Phillips pattern.
2. Set the picture control to minimum.
3. Enter into the Picture Adjustment Service Menu.
4. Adjust the Sub-Brightness data so that there is barely a difference between the 0 IRE and 10 IRE signal.

## SUB CONTRAST ADJUSTMENT

1. Input a video that contains a small 100% area on a black background.
2. Set the picture control to maximum.
3. Connect an oscilloscope to pin 3 of CN301 (A board).
4. Enter into the Picture Adjustment Service Menu.
5. Adjust the Sub-contrast data to obtain a black to white amplitude of 2.50 volts.

## SUB COLOUR ADJUSTMENT

1. Receive a PAL Colour Bar video signal.
2. Connect an oscilloscope to pin 3 of CN301 (A board).
3. Enter into the Picture Adjustment Service Menu.
4. Adjust the sub colour data so that cyan, magenta and blue colour bars are of equal height.




NOTE: The data shown in the TV STATUS table is dependant on destination, screen size and country.

## SYSTEM B/G, D/K, I & L I.F ADJUSTMENT

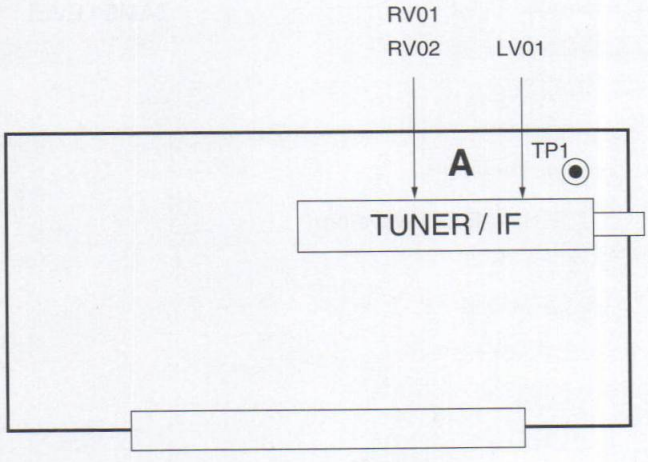
1. Input an off air signal of between 60-100dBuV / 75 ohm terminated, via the tuner socket.
2. Enter into the I.F adjustment service mode (i.e. " TT 59 " ) to fix the I.F frequency to 38.9 MHz.
3. Enter into the service mode and select "Current TVStatus".
4. Adjust the I.F coil (LV01) until the "AFT Status" indicates a " Window " condition.

## SYSTEM L BAND 1 I.F ADJUSTMENT

1. Input an off air signal of between 60-100dBuV / 75 ohm terminated, via the tuner socket.
2. Enter into the I.F adjustment service mode (i.e. " TT 59 " ) to fix the I.F frequency to 34.2 MHz.
3. Enter into the service mode and select "Current TVStatus".
4. Adjust the RV02 until the "AFT Status" indicates a " Window " condition.

## TUNER AGC ADJUSTMENT

1. Receive a signal of 63dBuV / 75 ohm terminated via the tuner socket.
2. Measure the voltage at test point 1 (A board).
3. Adjust RV01 to obtain a voltage of 3.0V ± 0.3V.



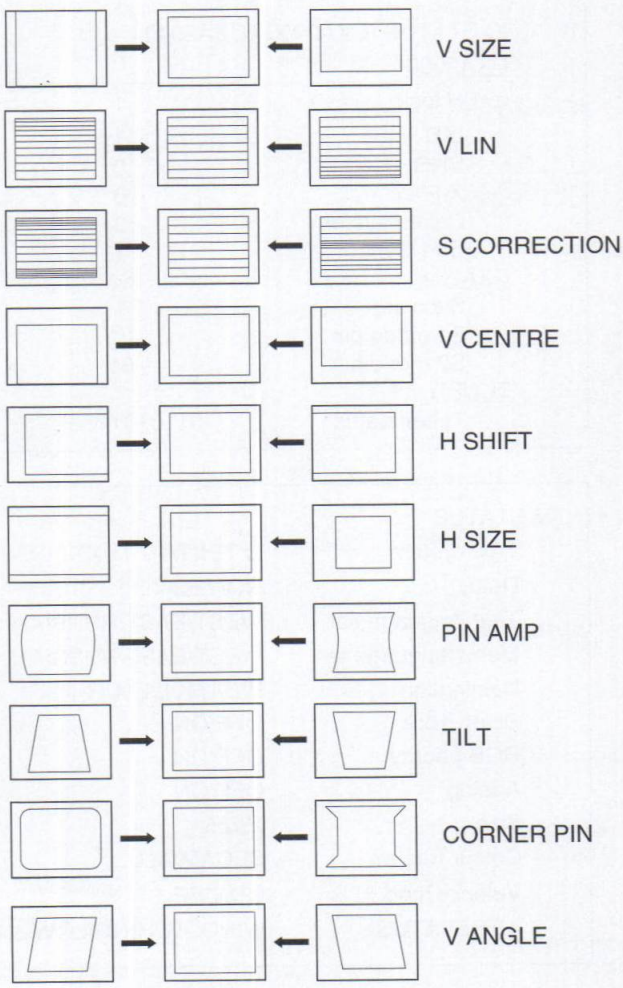

- A Board component side -

## DEFLECTION SYSTEM ADJUSTMENT

1. Enter into the Geometry Adjustment Service Menu.
2. Select and adjust each item in order to obtain the optimum image.

GEOMETRY ADJUSTMENT

| | |
|---|---|
| V Size | Adj |
| V Position | Adj |
| S Correction | Adj |
| V Linearity | Adj |
| H Size | Adj |
| H Position | Adj |
| Pin Amp | Adj |
| Pin Phase | Adj |
| AFC Bow | Adj |
| AFC Angle | Adj |
| EHT V | Adj |
| EHT H | Adj |
| Corner Pin | Adj |



## 4-2. TEST MODE 2:

Is available by pressing Test button twice, OSD " TT " appears. The functions described below are available by pressing the two numbers. To release the Test mode 2, press 0 twice, or switch the TV into stand-by mode.

| | |
|---|---|
| 00 | Cancel Test mode |
| 01 | Picture maximum |
| 02 | Picture minimum |
| 03 | Volume 30% |
| 04 | Volume 50% |
| 05 | Volume 65% |
| 06 | Volume 80% |
| 07 | Ageing mode |
| 08 | Set shipping conditions |
| 09 | Reset language select menu on power up |
| 10 | No function |
| 11 | Clear & Disable OSD |
| 12 | Enable OSD |
| 13 | Scart 16:9 Enable/Disable |
| 14 | Display TV status |
| 15 | Picture reset |
| 16 | Set 32" chassis (Wide models only) |
| 17 | Set all AV labels to default |
| 18 | RGB Priority Enable/Disable |
| 19 | Set all programme labels to default |
| 20 | No function |
| 21 | Sub Picture Adjustment (use red/yellow) |
| 22 | Sub Colour Adjustment (use red/yellow) |
| 23 | Sub Brightness Adjustment (use red/yellow) |
| 24 | Destination U |
| 25 | Destination D |
| 26 | Destination B |
| 27 | Destination K |
| 28 | Destination L |
| 29 | Destination E |
| 30 | No function |
| 31 | Destination A |
| 32 | Destination R |

| | |
|---|---|
| 33 | Sub Woofer Enable |
| 34 | Sub Woofer Disable |
| 35 | Set up trap switch |
| 36 | Rotation test |
| 37 | Set 25" (24" Wide models) |
| 38 | Set 29" (28" Wide models) |
| 39 | D/K Nicam Enable |
| 40 | No function |
| 41 | Re-initialise the NVM |
| 42 | Default Programme info in NVM with Pencoed factory channel setup |
| 43 | Default Geometry settings |
| 44 | Default favourite pages to 100,101,102 & 103 |
| 45 | Switch off all Channel Locks |
| 46 | Dealer commander mode (pending) |
| 47 | Default MSP settings |
| 48 | Restore NVM test byte Undo TT49 |
| 49 | Delete NVM test byte Sets virgin NVM |
| 50 | No function |
| 51 | Text interlace odd (NON INTERLACE MODE = 3) |
| 52 | Text interlace even (NON INTERLACE MODE = 2) |
| 53 | Auto picture ON |
| 54 | Auto picture OFF |
| 55 | Auto cut off ENABLE |
| 56 | Auto cut off DISABLE |
| 57 | AV3 ENABLE |
| 58 | AV3 DISABLE (if TV Text) otherwise AV3 ENABLE |
| 59 | Auto IF Display |
| 60 | No function |
| 61 | Dolby Pro-logic ON |
| 62 | Noise Left |
| 63 | Noise Right |
| 64 | Noise Centre |
| 65 | Noise Surround |

| | |
|---|---|
| 66 | DSP Bypass |
| 67 | D/K Nicam Disable |
| 68 | Diagnostics OFF |
| 69 | Diagnostics ON |
| 70 | No function |
| 71 | Lumisponder Curve 1 |
| 72 | Lumisponder Curve 2 |
| 73 | Jungle Select (CXA2000 or CXA2076) |
| 74 | Text H Position adjust |
| 75 | Picture reset |
| 76 | MSP BG filter enabled (h/w required) |
| 77 | Sound reset |
| 78 | MSP BG filter disabled (h/w required) |
| 79 | Wide set-up (Wide screen models only) |
| 80 | No function |
| 81 | Velocity Mod ON |
| 82 | Velocity Mod OFF |
| 83 | Picture Rise step 40ms |
| 84 | Picture Rise step 80ms |
| 85 | Picture Rise step 160ms |
| 86 | Picture Rise OFF |
| 87 | Select Shop mode |
| 88 | Compact Text Acquisition Disable |
| 89 | Compact Text Acquisition Enable |
| 90 | No function |
| 91 | Sound Centre mode NORMAL |
| 92 | Sound Centre mode WIDE |
| 93 | Sound Centre mode PHANTOM |
| 94 | Toggle Compact Text Acquisition Delay Bit 0 |
| 95 | Toggle Compact Text Acquisition Delay Bit 1 |
| 96 | Toggle Compact Text Acquisition Delay Bit 2 |
| 97 | Toggle Compact Text Acquisition Delay Bit 3 |
| 98 | Toggle Compact Text Acquisition Delay Bit 4 |
| 99 | Set test menu |

These test modes can set the delay byte to any value 0-31 which creates a (value x 20) mS delay
NOTE: Compact Text models ONLY

## 4-3. BE-3D SELF DIAGNOSTIC SOFTWARE

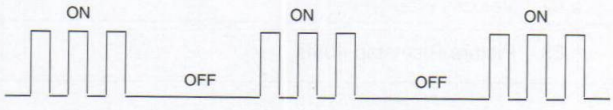
The identification of errors within the BE-3D chassis is triggered in 1 of 2 ways :- 1: Bus busy or 2: Device failure to respond to IIC. In the event of one of these situations arising the software will first try to release the bus if busy (Failure to do so will report with continuous flashing LED) and then communicate with each device in turn to establish if a device is faulty. If a device is found to be faulty the relevant device number will be displayed through the led (Series of flashes which must be counted) See Table 1, non fatal errors are reported with this method.

**Table 1**

| ERROR | LED ERROR COUNT |
|---|---|
| No error | 00 |
| Not allowed (may be confused with Sircs response flash!) | 01 |
| Protection circuit trip < ANY TIME > | 02 |
| IIC SCL LOW < POWER UP ONLY > | 03 |
| IIC SDA LOW < POWER UP ONLY > | 04 |
| IIC SDA & SCL LOW < POWER UP ONLY > | 05 |
| Jungle/Chroma controller no acknowledge < POWER UP ONLY > | 06 |
| Video Switch no acknowledge < POWER UP ONLY > | 07 |
| Tuner no acknowledge | 08 |
| MSP no acknowledge | 09 |
| NVM no acknowledge | 10 |
| M3L TXD Low < POWER UP ONLY > | 11 |
| M3L RXD Low < POWER UP ONLY > | 12 |
| M3L ENABLE Low < POWER UP ONLY > | 13 |
| M3L TXD & RXD Low < POWER UP ONLY > | 14 |
| Compact Text test fail < POWER UP ONLY > | 15 |
| A V switch cannot power on reset < Chassis Initialisation > | 16 |
| Cannot initialise jungle (after initial power on checked out OK) - < Chassis Initialisation > | 17 |
| NVM acknowledge fail after initialisation (STBY +5V-same as micro!) | 18 |
| Multiple devices with no acknowledge < POWER UP ONLY > | 19 |
| Compact text run-time failure < MAY NOT BE FATAL-DISPLAY ON ERROR READER > | 20 |
| A V SWITCH response failure after power up check (+9V test) | 21 |
| JUNGLE/CHROMA controller response failure after power up check (-9V test) | 22 |
| Compact text does not respond (-5V test) | 23 |
| MSP run-time failure < MAY NOT BE FATAL-DISPLAY ON ERROR READER > | 24 |
| M3L bus Clock low time out after data send (run-time failure) | 25 |
| M3L bus Clock low time out after data send (at power up check) | 26 |
| M3L bus Clock low time out after data send (at initialisation) | 27 |
| DSP run-time failure < MAY NOT BE FATAL-DISPLAY ON ERROR READER > | 28 |

Flash Timing Example : e.g. error number 3.

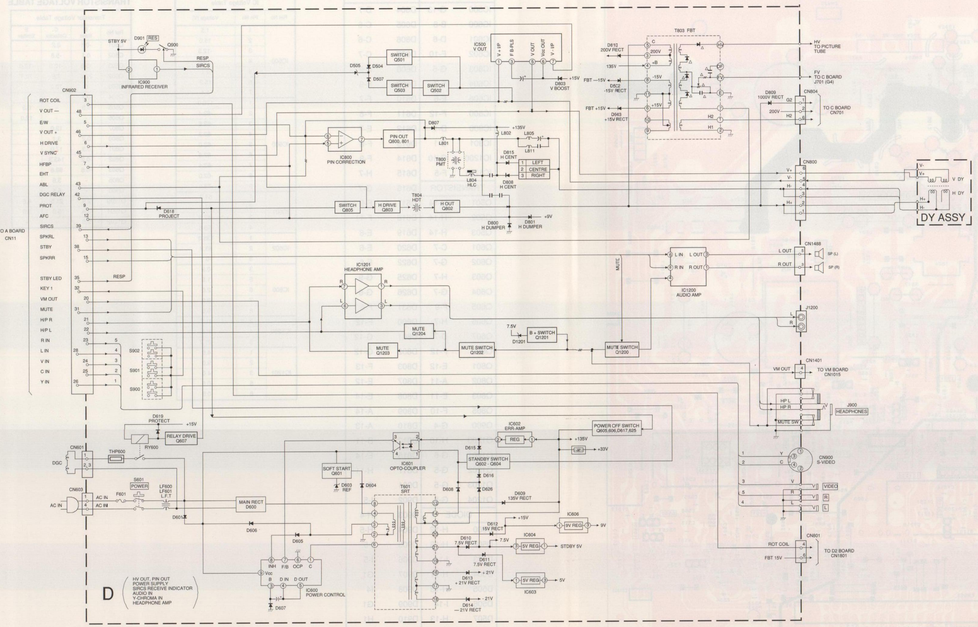
Stby LED



MEMO

# SECTION 5
# DIAGRAMS

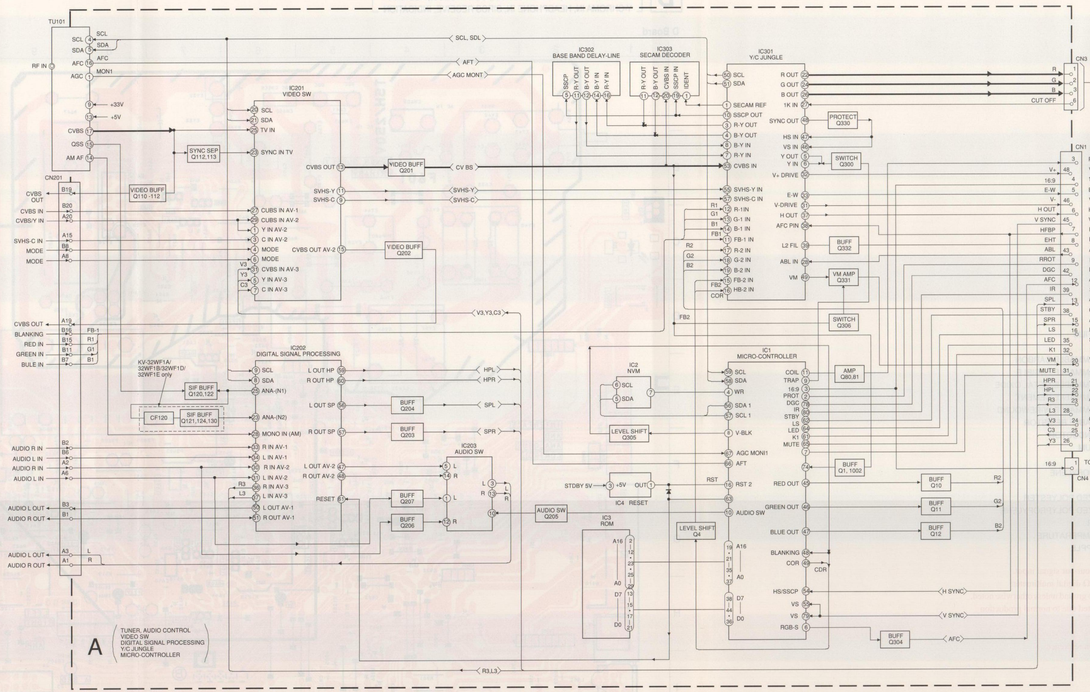
## BLOCK DIAGRAM (1)



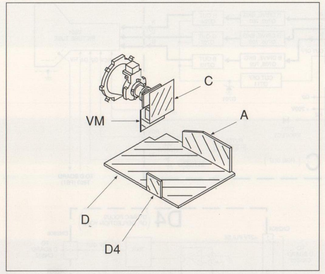





## BLOCK DIAGRAM (2)



## 5-2. CIRCUIT BOARDS LOCATION




## 5-3. SCHEMATIC DIAGRAMS AND PRINTED WIRING BOARDS

**Note :**

- All capacitors are in µF unless otherwise noted. pF: µµF 50WV or less are not indicated except for electrolytic and tantalums.
- All resistors are in ohms. k = 1000 , M = 1000K
- Indication of resistance, which does not have one for rating electrical power, is as follows.

| Pitch : 5 mm |
|---|
| Rating electrical power ¼ W |

- : nonflammable resistor.
- : internal component.
- : panel designation, or adjustment for repair.
- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.
- ⊥ : earth - ground.
- ⏚ : earth - chassis.
- ⌗ : no mounted.

**Note :** The components identified by shading and marked ⚠ are critical for safety. Replace only with the part number specified.

**Note :** Les composants identifies par une trame et une marque ⚠ sont critiques pour la securite. Ne les remplacer que par une piece portant le numero specifie.

**Reference information**

| | | |
|---|---|---|
| RESISTOR | : RN | METAL FILM |
| | : RC | SOLID |
| | : FPRD | NONFLAMMABLE CARBON |
| | : FUSE | NONFLAMMABLE FUSIBLE |
| | : RS | NONFLAMMABLE METAL OXIDE |
| | : RB | NONFLAMMABLE CEMENT |
| | : RW | NONFLAMMABLE WIREWOUND |
| | : ⅀ | ADJUSTABLE RESISTOR |
| COIL | : LF-8L | MICRO INDUCTOR |
| CAPACITOR | : TA | TANTALUM |
| | : PS | STYROL |
| | : PP | POLYPROPYLENE |
| | : PT | MYLAR |
| | : MPS | METALIZED POLYESTER |
| | : MPP | METALIZED POLYPROPYLENE |
| | : ALB | BIPOLAR |
| | : ALT | HIGH TEMPERATURE |
| | : ALR | HIGH RIPPLE |

- Readings are taken with a colour-bar signal input.
- Readings are taken with 10MΩ digital multimeter.
- Voltages are dc with respect to ground unless otherwise noted.
- Voltage variations may be noted due to normal production tolerances.
- All voltages are in V.
- Circled numbers are waveform references.
- ——— : B+ bus.
- ➡ : signal path. (RF)

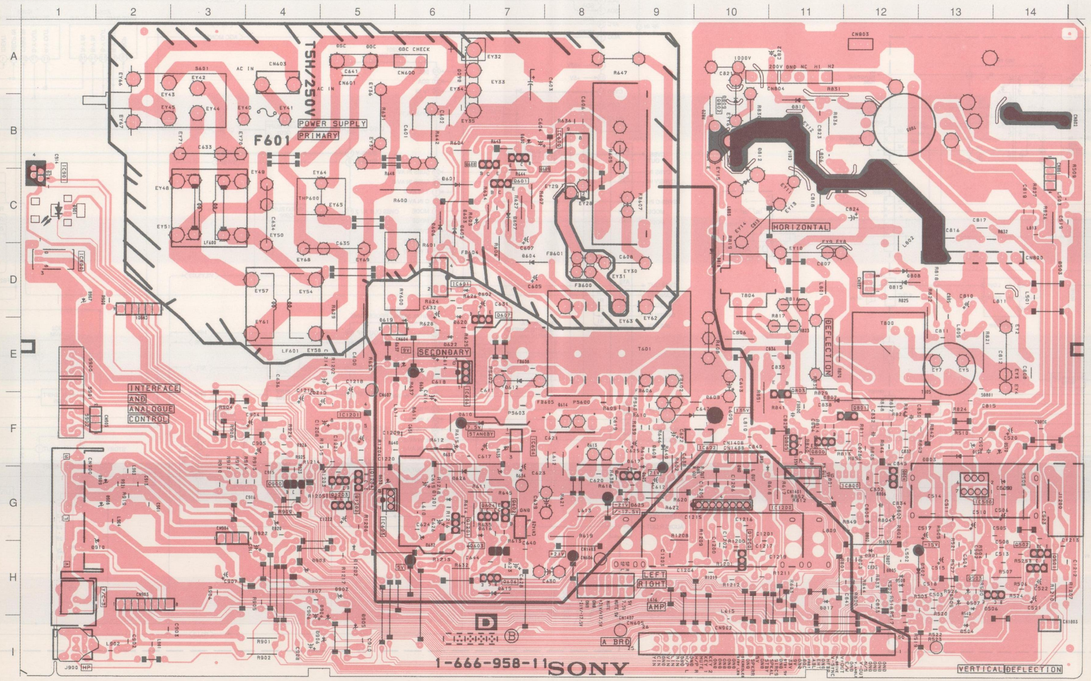






**D** HV OUT, PIN OUT, POWER SUPPLY, CONTROL SW, AUDIO IN
Y-CHROMA IN, HEADPHONE IN, SIRCS RECEIVE, INDICATION

**D Board**










**Note:**
The Circuit indicated as left contains high voltage of over 600 Vp-p. Care must be paid to prevent an electric shock in inspection or repairing

**D BOARD**

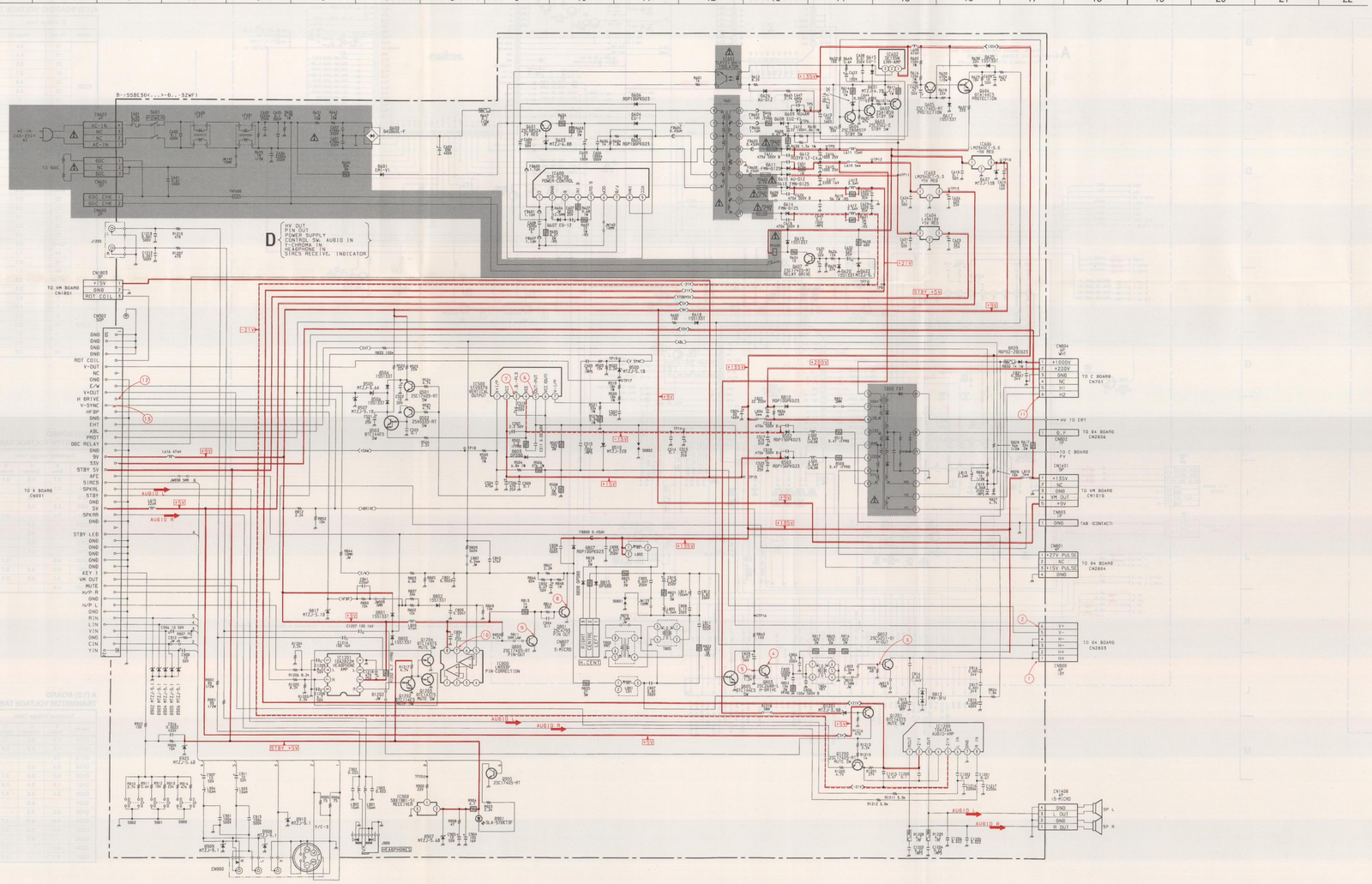
| IC | | DIODE | |
|---|---|---|---|
| IC500 | G-13 | D604 | D-7 |
| IC600 | B-8 | D605 | C-6 |
| IC601 | D-6 | D606 | C-6 |
| IC602 | F-10 | D607 | C-7 |
| IC603 | G-5 | D608 | F-9 |
| IC604 | F-7 | D609 | F-9 |
| IC606 | E-6 | D610 | F-7 |
| IC800 | F-12 | D611 | F-6 |
| IC900 | D-1 | D612 | E-7 |
| IC901 | C-1 | D613 | F-8 |
| IC1200 | G-10 | D614 | F-8 |
| IC1201 | F-5 | D615 | H-7 |
| TRANSISTOR | | D616 | G-7 |
| Q501 | H-14 | D617 | F-9 |
| Q502 | H-14 | D618 | F-11 |
| Q503 | H-14 | D619 | E-6 |
| Q601 | C-7 | D620 | E-6 |
| Q602 | G-7 | D622 | E-6 |
| Q603 | H-7 | D625 | G-9 |
| Q604 | G-7 | D626 | G-6 |
| Q605 | F-9 | D631 | F-6 |
| Q606 | H-7 | D800 | F-12 |
| Q607 | D-7 | D801 | G-12 |
| Q800 | F-12 | D802 | G-12 |
| Q801 | E-12 | D803 | F-13 |
| Q802 | A-11 | D807 | E-12 |
| Q803 | E-11 | D808 | E-14 |
| Q805 | F-10 | D809 | A-14 |
| Q900 | G-4 | D810 | A-13 |
| Q1200 | H-10 | D812 | B-11 |
| Q1201 | G-6 | D815 | E-14 |
| Q1202 | G-5 | D817 | H-11 |
| Q1203 | G-5 | D901 | C-1 |
| Q1204 | G-5 | D902 | I-5 |
| DIODE | | D903 | H-4 |
| D500 | H-12 | D904 | H-5 |
| D502 | H-13 | D905 | I-5 |
| D503 | I-14 | D906 | I-5 |
| D504 | H-11 | D907 | G1 |
| D505 | H-13 | D908 | I4 |
| D506 | I-14 | D909 | G1 |
| D507 | H-13 | D910 | H1 |
| D600 | A-7 | D1201 | G-6 |
| D601 | C-6 | D1202 | G-5 |
| D603 | C-7 | | |

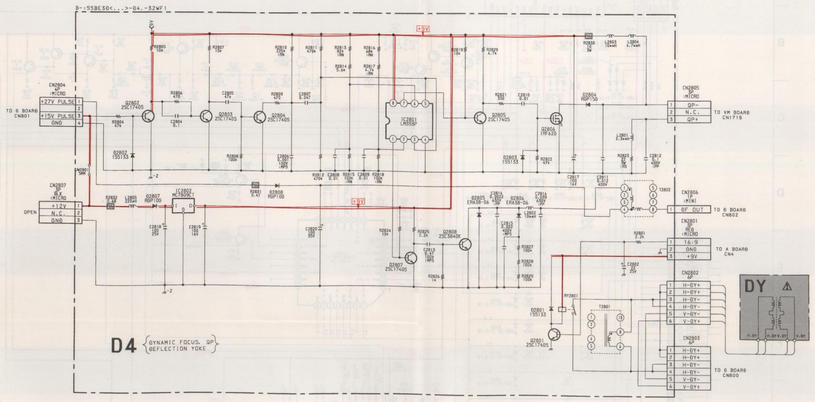
**D BOARD IC VOLTAGE TABLE**

| IC Voltage Table | | |
|---|---|---|
| Ref No | Pin No | Voltage (V) |
| IC500 | 1 | 1.5 |
| | 2 | 15.0 |
| | 3 | -12.3 |
| | 4 | -14.0 |
| | 5 | 0.1 |
| | 6 | 15.2 |
| | 7 | 1.4 |
| IC600 | 1 | 170.0 |
| | 2 | -62.4 |
| | 3 | -62.6 |
| | 4 | -62.2 |
| | 5 | -62.0 |
| | 6 | -62.6 |
| | 7 | -62.4 |
| | 8 | -62.0 |
| | 9 | -58.0 |
| IC601 | 1 | 64.3 |
| | 2 | 63.0 |
| | 3 | -62.5 |
| | 4 | -58.6 |
| IC602 | 1 | 135.0 |
| | 2 | 63.2 |
| | 3 | -0.1 |
| IC800 | 3 | 0.9 |
| | 5 | 1.5 |
| | 6 | 2.0 |
| | 7 | 0.2 |
| | 8 | 9.0 |
| IC1200 | 2 | 21.7 |
| | 4 | 21.5 |
| | 5 | -21.7 |
| IC1201 | 1 | 4.0 |
| | 2 | 9.0 |
| | 3 | 4.0 |
| | 5 | 0.5 |
| | 8 | 0.5 |

**D BOARD TRANSISTOR VOLTAGE TABLE**

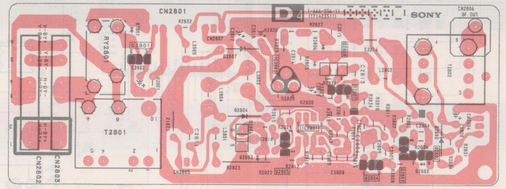
| Transistor Voltage Table | | | |
|---|---|---|---|
| Ref No | B Base | C Collector | E Emitter |
| Q501 | -0.1 | 0.2 | - |
| Q502 | 0.1 | -5.8 | - |
| Q503 | -5.8 | -12.0 | -12.0 |
| Q602 | 72.0 | 7.5 | 72.7 |
| Q603 | 0 | 72.0 | - |
| Q604 | 0.7 | - | - |
| Q605 | 0.5 | - | 0.3 |
| Q606 | - | - | 12.0 |
| Q607 | - | 12.0 | - |
| Q800 | 0.2 | 3.1 | - |
| Q801 | 0.3 | 17.0 | - |
| Q802 | -0.2 | 143.3 | - |
| Q803 | -0.6 | 99.8 | - |
| Q805 | - | 3.6 | - |
| Q900 | - | 5.4 | - |
| Q1200 | 2.9 | 21.5 | 4.6 |
| Q1201 | 3.4 | 5.0 | 3.0 |
| Q1202 | 2.8 | - | - |



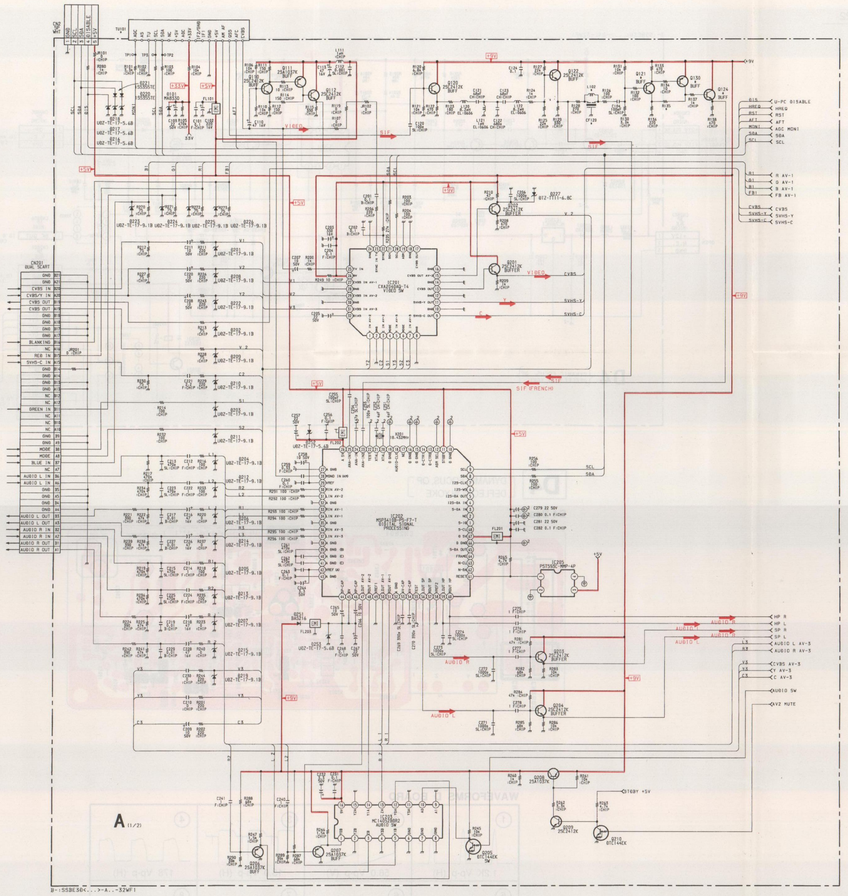

**D4** DYNAMIC FOCUS, QP DEFLECTION YOKE

**D4 Board**




**WAVEFORMS D BOARD**

| | | | |
|---|---|---|---|
| ① 1.2K Vp-p (H) | ② 56.0 Vp-p (V) | ③ 13.0 Vp-p (H) | ④ 178 Vp-p (H) |
| ⑤ 2.6 Vp-p (H) | ⑥ 56 Vp-p (V) | ⑦ 31 Vp-p (V) | ⑧ 140 Vp-p (H) |
| ⑨ 3.9 Vp-p (H) | ⑩ 1.0 Vp-p (H) | ⑪ 28 Vp-p (H) | ⑫ 3.0 Vp-p (H) |
| ⑬ 5.5 Vp-p (V) | | | |

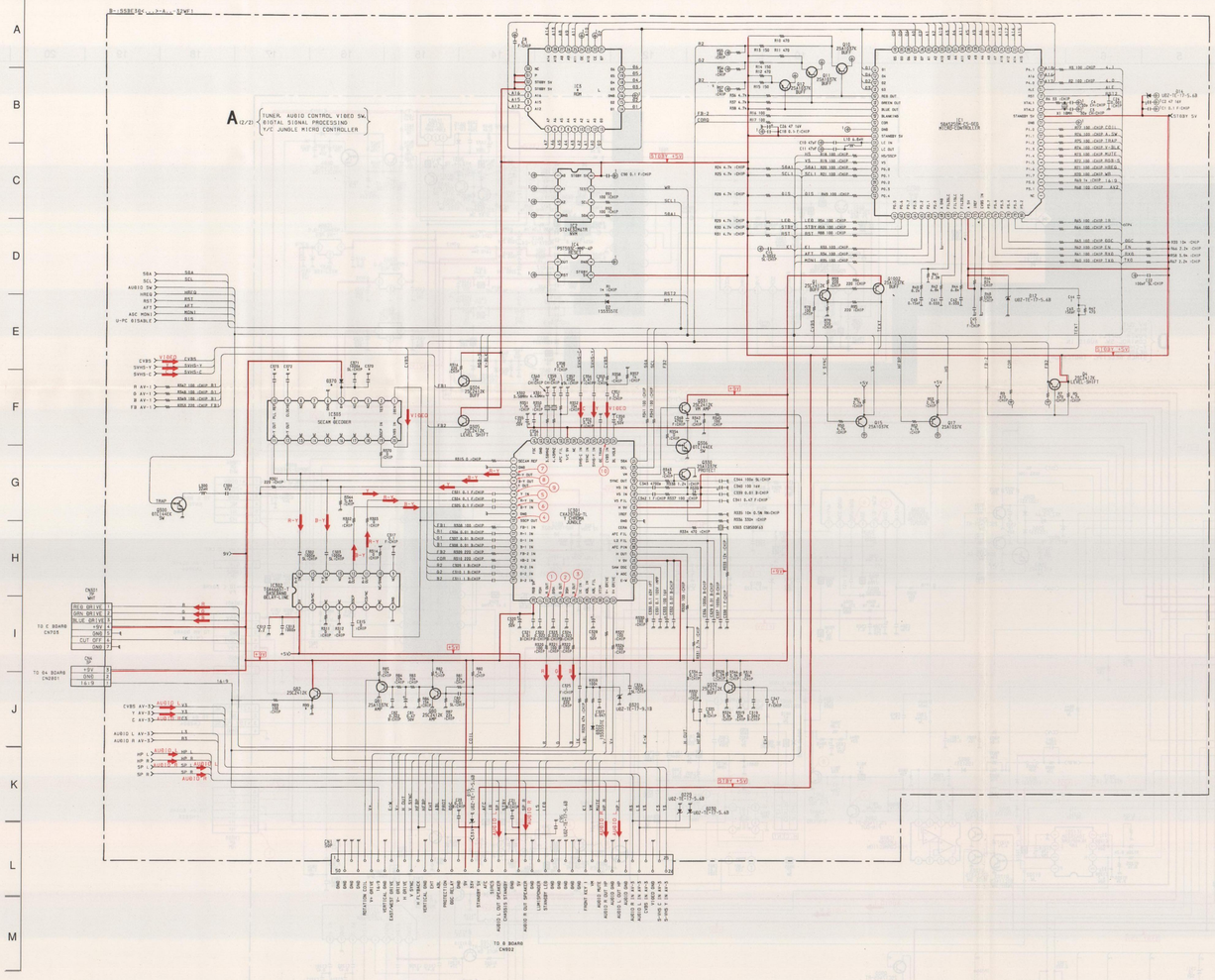


## A BOARD * MARK

| Model / Ref. No. | 32WF1A | 32WF1B | 32WF1D | 32WF1E | 32WF1K | 32WF1U |
|---|---|---|---|---|---|---|
| C370 | — | 2.2UF | 2.2UF | 2.2UF | 2.2UF | — |
| C372 | — | 0.1UF | 0.1UF | 0.1UF | 0.1UF | — |
| C373 | — | 0.22UF | 0.22UF | 0.22UF | 0.22UF | — |
| CF120 | TRAP 6.5MHz | TRAP 6.5MHz | TRAP 6.5MHz | TRAP 6.5MHz | — | — |
| D370 | — | BA3216 | BA3216 | BA3216 | BA3216 | — |
| IC3 | TMS27PC010A-15FMB8606 | TMS27PC010A-15FMB8606 | TMS27PC010A-15FMB8606 | TMS27PC010A-15FMB8606 | TMS27PC010A-15FMB9606 | TMS27PC010A-15FMB9606 |
| IC303 | — | TDA6306T/N3 | TDA6306T/N3 | TDA6306T/N3 | TDA6306T/N3 | — |
| L102 | 5.6UH | 5.6UH | 5.6UH | 5.6UH | 5.6UH | — |
| Q121 | 2SC2412K-T-146-R | 2SC2412K-T-146-R | 2SC2412K-T-146-R | 2SC2412K-T-146-R | 2SC2412K-T-146-R | — |
| Q124 | 2SC2412K-T-146-R | 2SC2412K-T-146-R | 2SC2412K-T-146-R | 2SC2412K-T-146-R | 2SC2412K-T-146-R | — |
| Q130 | 2SA1037K-T-146-R | 2SA1037K-T-146-R | 2SA1037K-T-146-R | 2SA1037K-T-146-R | 2SA1037K-T-146-R | — |
| R99 | CONDUCTOR CHIP | CONDUCTOR CHIP | 4.7K | 4.7K | 4.7K | 4.7K |
| R135 | 330 | 330 | 330 | 330 | 680 | 680 |
| R1001 | — | — | 100 | — | — | — |
| R1002 | — | — | 100 | — | — | — |
| TU101 | TUVIF (AEP) | TUVIF (FR) | TUVIF (AEP) | TUVIF (AEP) | TUVIF (AEP) | TUVIF (UK) |











## A(1/2) BOARD IC VOLTAGE TABLE

| IC Voltage Table | | |
|---|---|---|
| Ref No | Pin No | Voltage (V) |
| IC201 | 13 | 4.4 |
| | 15 | 4.4 |
| | 20 | 3.5 |
| | 21 | 2.7 |
| | 22 | 4.9 |
| | 23 | 4.4 |
| | 24 | 0 |
| | 25 | 4.4 |
| | 26 | 8.8 |
| | 32 | 4.4 |
| IC202 | 4 | 2.8 |
| | 6-7 | 0.1 |
| | 8 | 3.0 |
| | 9 | 3.6 |
| | 11 | 4.7 |
| | 13 | 4.7 |
| | 20-21 | 2.4 |
| | 23 | 0.2 |
| | 25 | 1.5 |
| | 26 | 4.8 |
| | 28 | 3.8 |
| | 29 | 2.6 |
| | 39-42 | 3.8 |
| | 44 | 7.1 |
| | 45 | 8.0 |
| | 46 | 7.1 |
| | 47-48 | 3.8 |
| | 53-54 | 3.8 |
| IC203 | 1 | 4.7 |
| | 3 | 3.8 |
| | 5 | 3.8 |
| | 10 | 9.0 |
| | 12 | 4.7 |
| | 13 | 3.8 |
| | 14 | 3.8 |

## A (2/2) BOARD TRANSISTOR VOLTAGE TABLE

| Transistor Voltage Table | | | |
|---|---|---|---|
| Ref No | B Base | C Collector | E Emitter |
| Q1 | 3.7 | 4.8 | 3.1 |
| Q4 | 0.1 | 4.8 | - |
| Q15 | - | 4.3 | - |
| Q80 | 2.6 | 2.2 | - |
| Q81 | 2.4 | - | 3.0 |
| Q300 | - | 0.2 | - |
| Q304 | - | 4.8 | - |
| Q305 | - | 4.8 | - |
| Q306 | - | 0.1 | - |
| Q330 | 4.5 | - | 5.1 |
| Q331 | 6.3 | 8.8 | 5.7 |
| Q332 | 3.1 | 8.8 | 2.5 |
| Q1001 | 4.4 | - | - |

## A (1/2) BOARD TRANSISTOR VOLTAGE TABLE

| Transistor Voltage Table | | | |
|---|---|---|---|
| Ref No | B Base | C Collector | E Emitter |
| Q110 | 1.8 | 8.2 | 1.2 |
| Q112 | 1.5 | 8.8 | 0.8 |
| Q113 | 1.8 | - | - |
| Q114 | 5.4 | 6.0 | - |
| Q120 | 9.0 | 8.8 | 3.7 |
| Q121 | 1.5 | 5.4 | 0.9 |
| Q122 | 5.4 | 8.8 | 4.7 |
| Q124 | - | 8.8 | - |
| Q130 | 8.2 | 5.3 | - |
| Q201 | 4.4 | 8.8 | 3.7 |
| Q202 | 4.4 | 8.8 | 3.7 |
| Q205 | - | 8.9 | - |
| Q206 | 4.1 | - | 4.7 |
| Q207 | 4.1 | - | 4.7 |

## WAVEFORMS A BOARD

| | | | | |
|---|---|---|---|---|
| ① 3.5 Vp-p (H) | ② 3.0 Vp-p (H) | ③ PAL.SECAM 3.0 Vp-p (H) | ③ NTSC 2.3 Vp-p (H) | ④ 5.1 Vp-p (H) |
| ⑤ 1.0 Vp-p (H) | ⑥ 1.4 Vp-p (H) | ⑦ PAL.NTSC 0.6 Vp-p (H) | ⑦ SECAM 0.5 Vp-p (H) | ⑧ PAL 0.8 Vp-p (H) |
| ⑧ SECAM 1.5 Vp-p (H) | ⑧ NTSC 0.9 Vp-p (H) | ⑨ PAL.SECAM 0.5 Vp-p (H) | ⑨ NTSC 0.4 Vp-p (H) | ⑩ 1.0 Vp-p (H) |

## A (2/2) BOARD IC VOLTAGE TABLE

IC Voltage Table

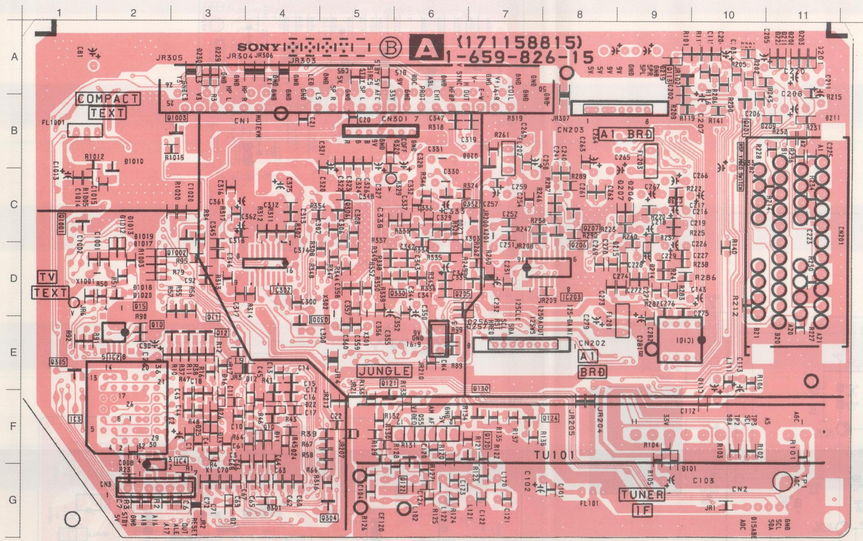
| Ref No | Pin No | Voltage (V) |
|---|---|---|
| IC1 | 2 | 3.6 |
| | 3-4 | 4.8 |
| | 5 | 0.5 |
| | 7 | 4.8 |
| | 9 | 4.8 |
| | 11 | 2.4 |
| | 13 | 4.8 |
| | 14-15 | 2.3 |
| | 16-17 | 4.8 |
| | 48 | 4.0 |
| | 51 | 4.8 |
| | 52-53 | 2.4 |
| | 54 | 0.7 |
| | 55 | 0.2 |
| | 56-57 | 4.8 |
| | 58 | 2.8 |
| | 59 | 3.5 |
| | 60 | 2.4 |
| | 62 | 0.7 |
| | 63 | 4.4 |
| | 65 | 4.8 |
| | 66 | 2.1 |
| | 67 | 2.0 |
| | 69-71 | 2.3 |
| | 72 | 4.8 |
| | 73 | 1.5 |
| | 74 | 1.2 |
| | 75-77 | 4.8 |
| | 79 | 0.2 |
| | 80 | 4.8 |
| IC2 | 5-8 | 4.8 |
| IC3 | 1 | 4.8 |
| | 31-32 | 4.8 |
| IC4 | 1 | 4.8 |
| | 3 | 4.8 |
| IC301 | 1 | 1.5 |
| | 3-4 | 5.6 |
| | 5 | 3.6 |
| | 6 | 5.0 |
| | 7-8 | 5.4 |
| | 10 | 0.6 |
| | 12-14 | 5.4 |
| | 16 | 4.0 |
| | 17-19 | 5.4 |
| | 20 | 8.8 |
| | 22-23 | 2.2 |
| | 24 | 2.0 |
| | 25 | 2.4 |
| | 26 | 2.0 |
| | 27 | 4.0 |
| | 28 | 6.6 |
| | 29 | 8.8 |
| | 31-33 | 3.0 |
| | 34 | 4.0 |
| | 35 | 4.6 |
| | 36 | 8.8 |
| | 37 | 3.1 |
| | 38 | 3.4 |
| | 39 | 5.3 |
| | 40 | 4.2 |
| | 41 | 2.3 |
| | 43 | 1.7 |
| | 44 | 8.8 |
| | 45 | 2.5 |
| | 46 | 3.9 |
| | 47 | 3.0 |
| | 48 | 4.4 |
| | 49 | 6.3 |
| | 50-51 | 0.1 |
| | 53 | 3.9 |
| | 54 | 5.0 |
| | 55-56 | 4.2 |
| | 58-59 | 8.8 |
| | 60 | 5.3 |
| IC301 | 61 | 5.0 |
| | 62 | 7.6 |
| IC302 | 1 | 4.8 |
| | 5 | 0.7 |
| | 9 | 4.8 |
| | 11-12 | 3.0 |
| | 14 | 1.3 |
| | 16 | 1.3 |
| IC303 | 1 | 1.5 |
| | 5 | 8 |
| | 11-12 | 5.6 |
| | 19 | 0.6 |
| | 20 | 3.9 |
| IC1001 | 4 | 0.2 |
| | 5 | 0.7 |
| | 6 | 1.7 |
| | 7 | 1.8 |
| | 10 | 0.4 |
| | 11-12 | 4.8 |
| | 16 | 4.8 |
| | 17 | 0 |
| | 21 | 4.8 |
| | 23 | 3.0 |
| | 25 | 4.8 |
| | 56 | 0 |
| | 61 | 1.3 |
| | 62-63 | 1.4 |
| | 64 | 0 |
| | 66 | 4.6 |
| | 67 | 4.7 |
| | 68 | 4.0 |





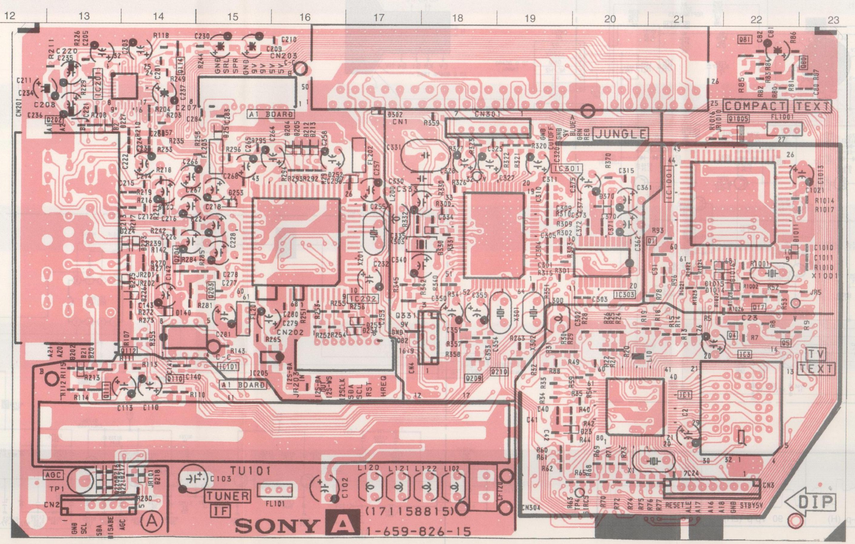
**A** TUNER, AUDIO CONTROL VIDEO SW, DIGITAL SIGNAL PROCESSING Y/C JUNGLE MICRO CONTROLLER

A Board < Conductor Side >






A Board < Component Side >







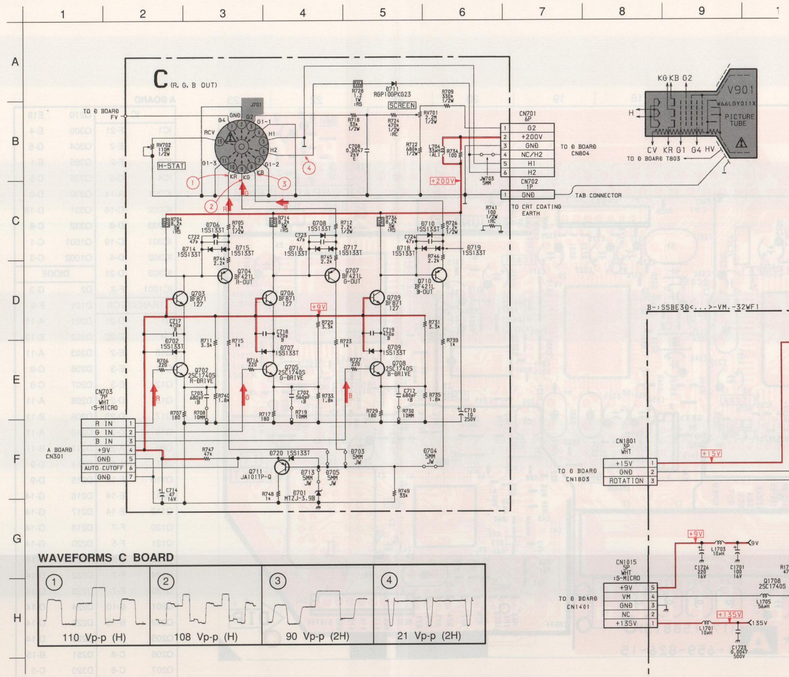



**A BOARD**

| IC | | Q210 | E-19 |
|---|---|---|---|
| IC1 | F-21 | Q300 | E-4 |
| IC2 | E-2 | Q304 | G-5 |
| IC3 | F-2 | Q305 | E-1 |
| IC4 | G-2 | Q306 | C-5 |
| IC201 | A-14 | Q330 | D-6 |
| IC202 | C-16 | Q331 | D-18 |
| IC203 | D-8 | Q332 | C-6 |
| IC301 | C-19 | Q1001 | C-1 |
| IC302 | D-4 | Q1002 | C-3 |
| IC303 | D-21 | DIODE | |
| IC1001 | F-2 | D2 | G-3 |
| TRANSISTOR | | D101 | F-9 |
| Q1 | D-21 | D201 | A-11 |
| Q4 | E-22 | D202 | E-13 |
| Q10 | E-2 | D203 | A-11 |
| Q11 | E-3 | D206 | C-9 |
| Q12 | E-3 | D207 | C-9 |
| Q15 | D-2 | D208 | A-11 |
| Q17 | D-23 | D209 | B-11 |
| Q18 | D-23 | D210 | A-11 |
| Q80 | A-23 | D211 | B-11 |
| Q81 | A-22 | D214 | D-9 |
| Q110 | F-14 | D215 | D-9 |
| Q111 | E-14 | D216 | G-14 |
| Q112 | E-14 | D217 | G-14 |
| Q120 | F-7 | D218 | G-14 |
| Q121 | F-5 | D220 | G-14 |
| Q122 | F-6 | D221 | D-14 |
| Q124 | F-7 | D222 | D-14 |
| Q130 | F-7 | D223 | D-14 |
| Q201 | B-10 | D224 | D-14 |
| Q202 | B-13 | D225 | D-14 |
| Q205 | D-7 | D226 | D-14 |
| Q206 | C-8 | D251 | B-15 |
| Q207 | C-8 | D320 | C-5 |
| Q208 | B-6 | D370 | C-21 |
| Q209 | E19 | D1010 | B-1 |

KV-32WF1 KV-32WF1

KV-32WF1 KV-32WF1



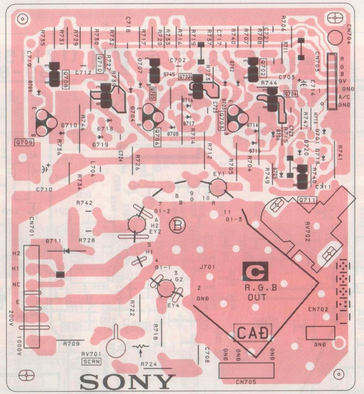

WAVEFORMS C BOARD

| ① | ② | ③ | ④ |
|---|---|---|---|
| 110 Vp-p (H) | 108 Vp-p (H) | 90 Vp-p (2H) | 21 Vp-p (2H) |

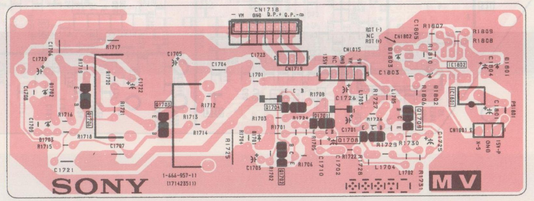
C [ R,G,B OUT ]

VM [ VM AMP ]

C Board




VM Board




C BOARD
TRANSISTOR VOLTAGE TABLE

Transistor Voltage Table

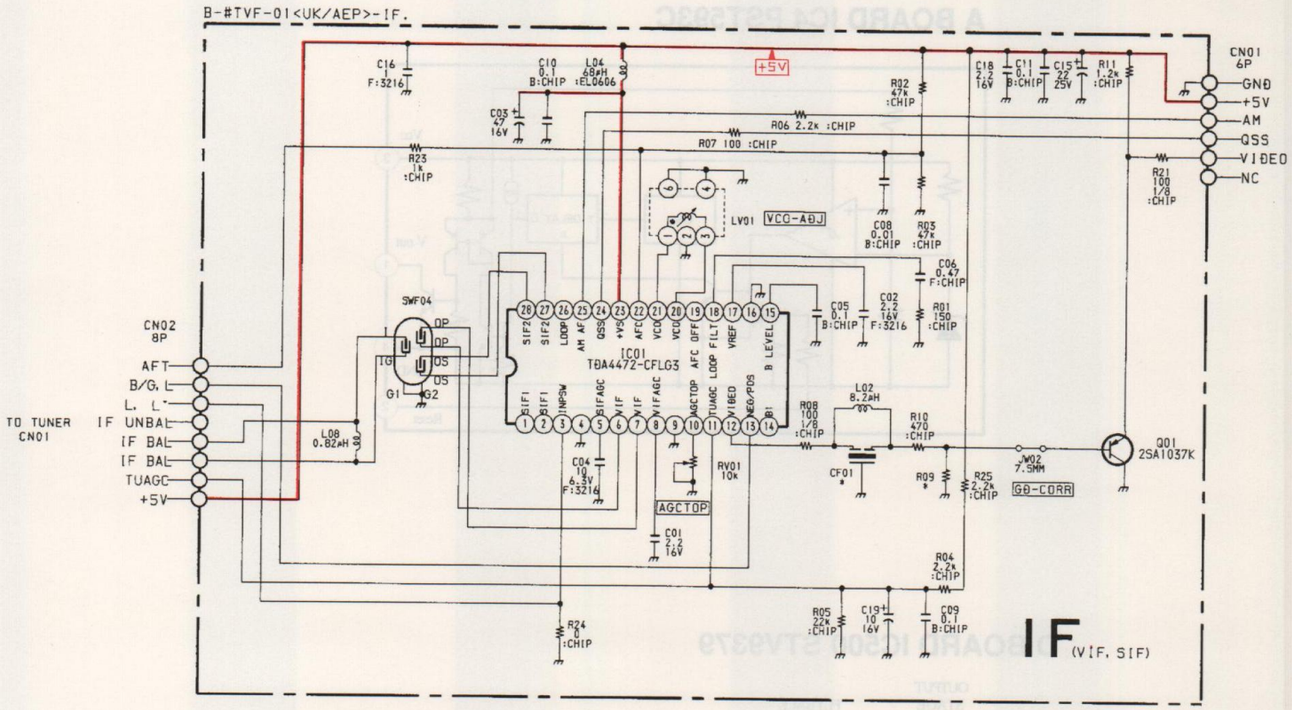
| Ref No | B Base | C Collector | E Emitter |
|---|---|---|---|
| Q702 | 2.0 | 11.4 | 1.4 |
| Q703 | 12.0 | 168.3 | 11.4 |
| Q704 | 168.3 | 6.0 | 163.5 |
| Q705 | 1.7 | 11.4 | 1.2 |
| Q706 | 12.0 | 178.8 | 11.4 |
| Q707 | 178.2 | 6.2 | 173.8 |
| Q708 | 2.0 | 11.4 | 1.4 |
| Q709 | 12.0 | 168.3 | 11.4 |
| Q710 | 168.0 | 6.4 | 160.0 |

VM BOARD
TRANSISTOR VOLTAGE TABLE

Transistor Voltage Table

| Ref No | B Base | C Collector | E Emitter |
|---|---|---|---|
| Q1701 | 2.5 | 8.8 | 1.8 |
| Q1702 | 2.5 | 5.5 | 1.8 |
| Q1703 | 134.3 | 71.8 | 134.8 |
| Q1704 | 5.5 | 8.8 | 4.8 |
| Q1706 | 1.0 | 71.8 | 0.4 |
| Q1708 | 2.9 | 6.6 | 2.2 |
| Q1709 | 2.2 | 8.8 | 1.5 |

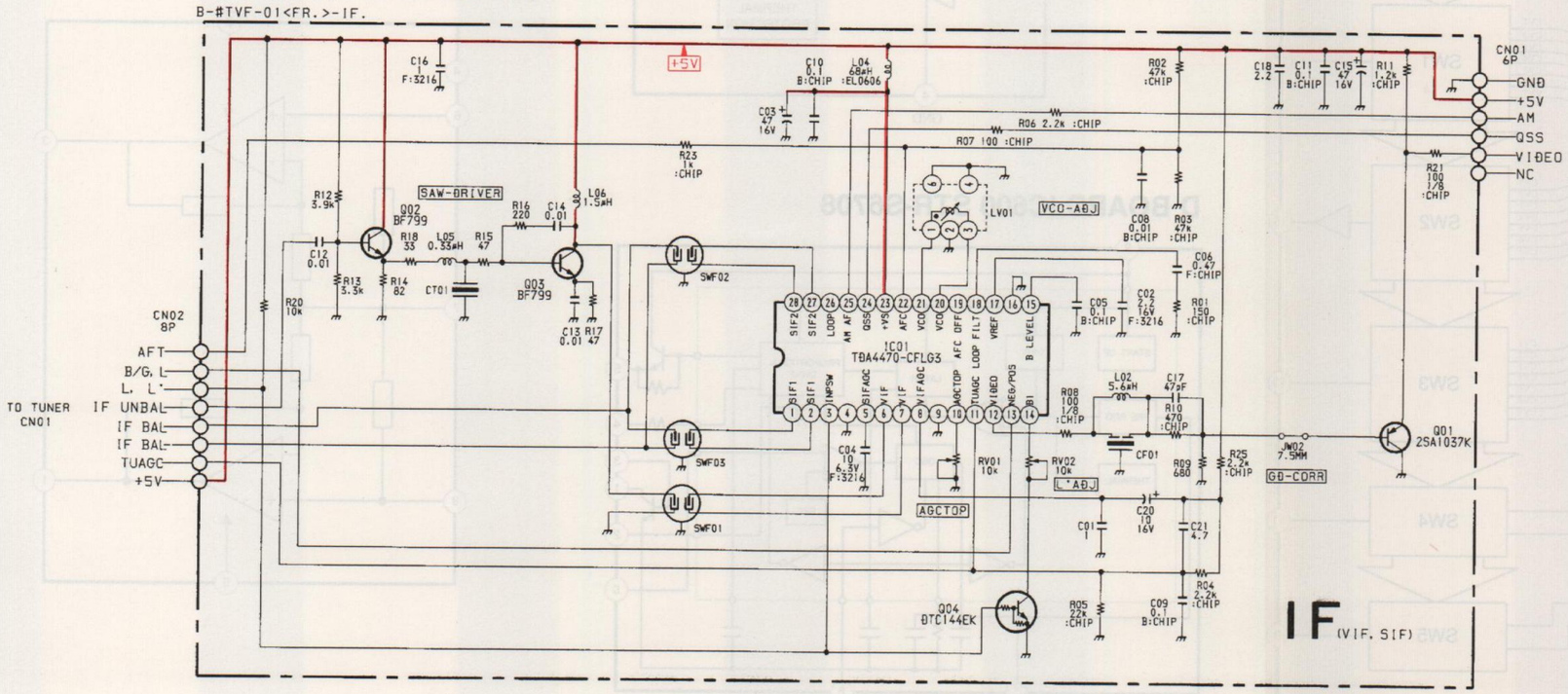
## TUVIF (AEP) (KV-32WF1A, 32WF1D, 32WF1E, and 32WF1K ONLY)
## TUVIF (UK) (KV-32WF1U ONLY)




### IF Board

| Ref. No \ Model | 32WF1A | 32WF1D | 32WF1E | 32WF1K | 32WF1U |
|---|---|---|---|---|---|
| CF01 | 5.5MHz | 5.5MHz | 5.5MHz | 5.5MHz | 6.0MHz |
| R09 | 680MF | 680MF | 680MF | 680MF | 1K |

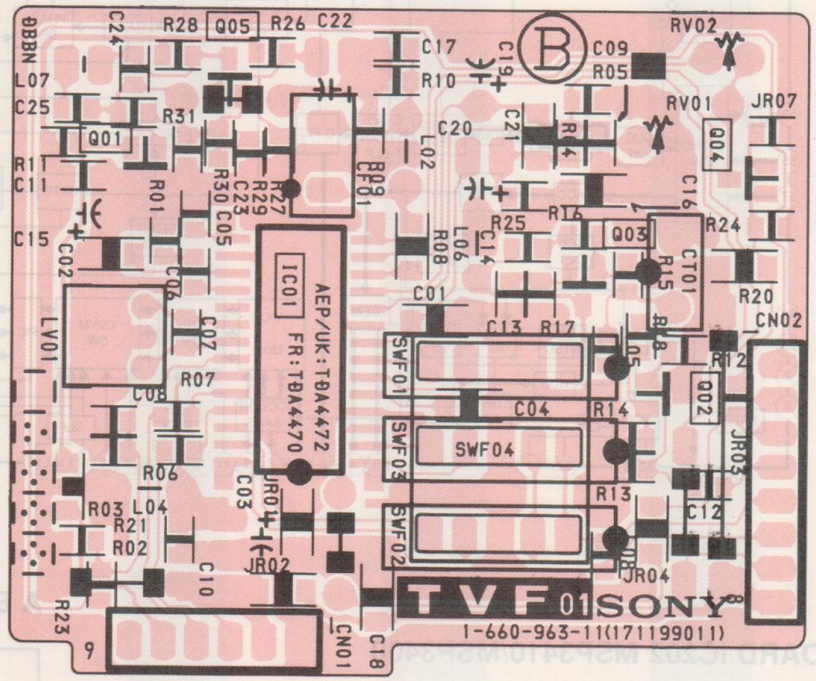
## TUVIF (FR) (KV-32WF1B ONLY)



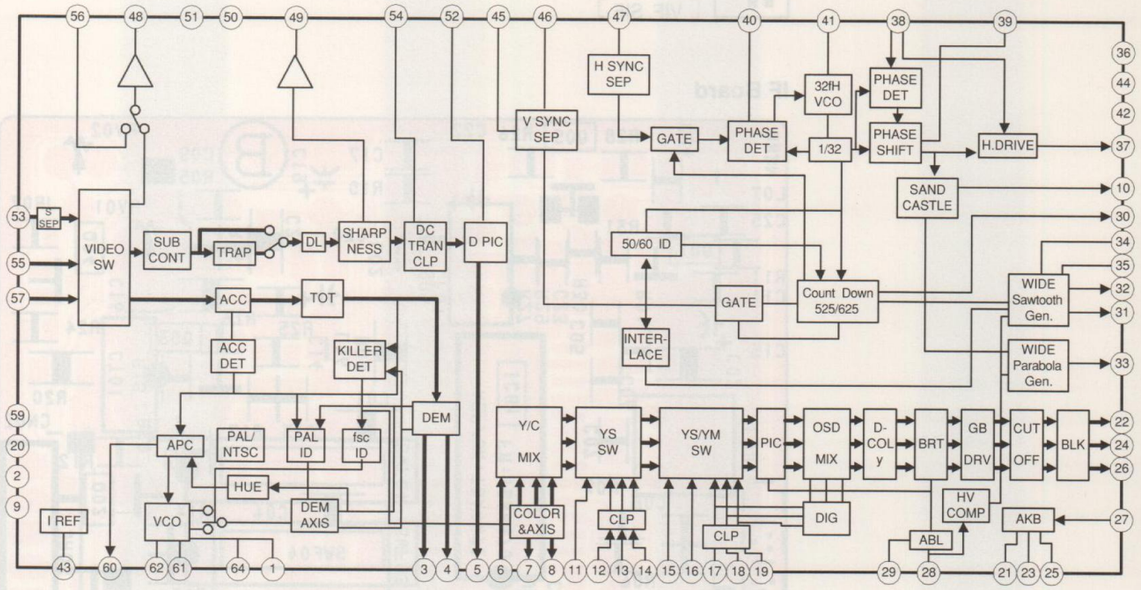



# IF [ VIF, SIF ]

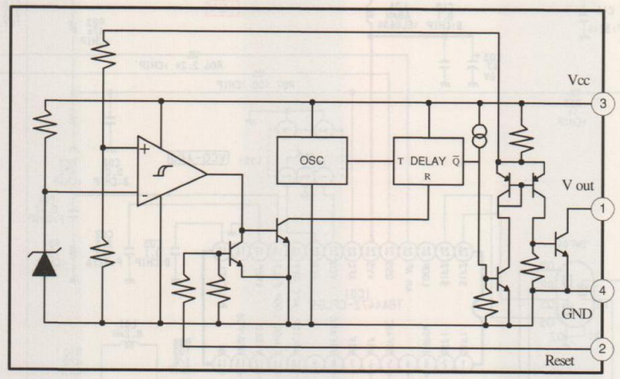
### IF Board



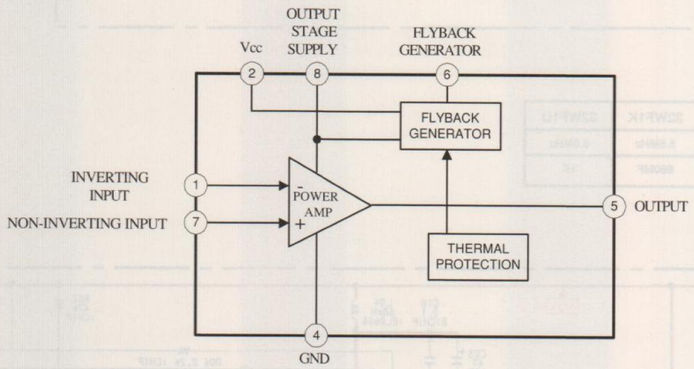
## A BOARD IC301 CXA2000Q-TL



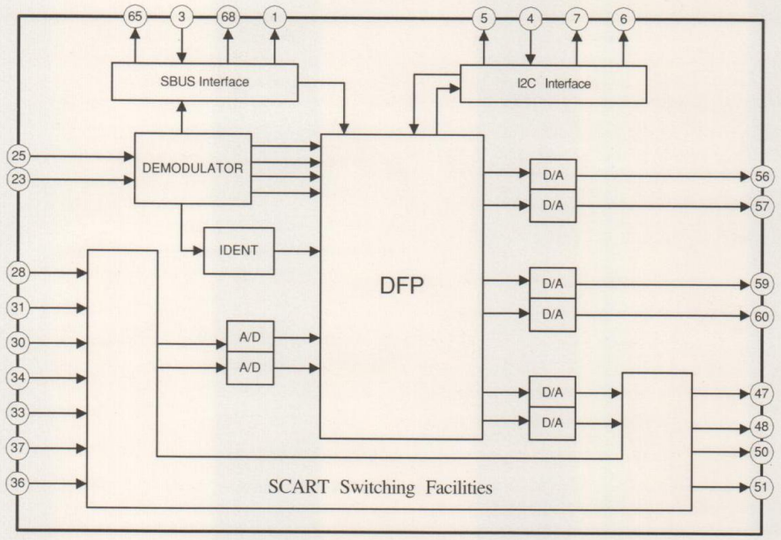

## A BOARD IC4 PST593C



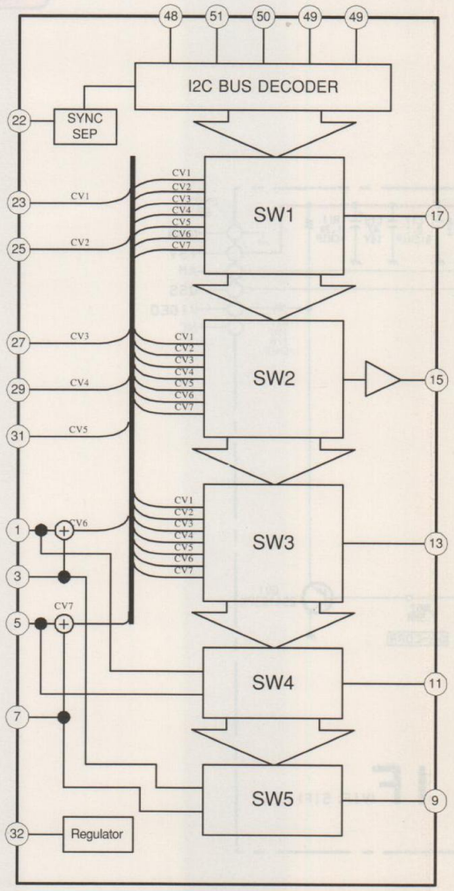

## D BOARD IC500 STV9379



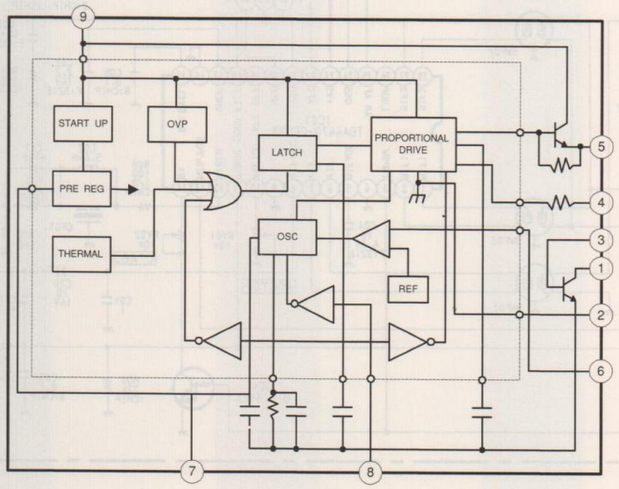

## A BOARD IC202 MSP3410/MSP3400



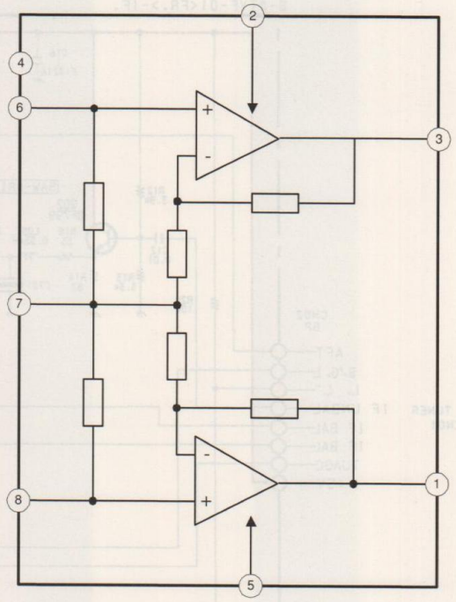

## A BOARD IC201 CXA2040Q




## D BOARD IC600 STR-S6708

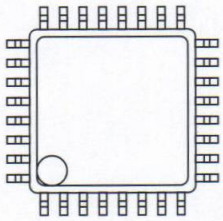



## D BOARD IC1200 TDA7264



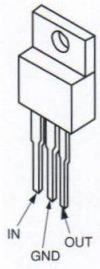
## 5-4. SEMICONDUCTORS

CXA2040Q-T4

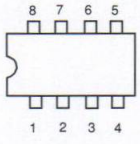


(TOP VIEW)

L4941BV
TEA7605

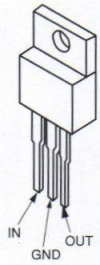



LM393P
M5216P
TDA2822M
µPC393C

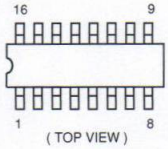



( TOP VIEW )

LM2940CT-5.0
LM2940CT
LM2940T-9.0
MCT7809CT
NJM78M09FA
µPC2405HF

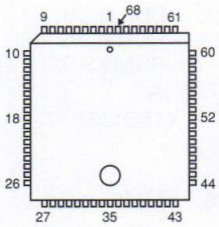



MC14052BDR2



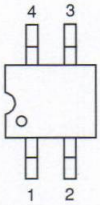

( TOP VIEW )

MSP3400C-PS-C6-T
MSP3410B-PS-F7-T



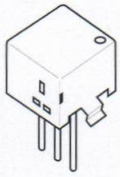

( TOP VIEW )

PST593C-MMP-4P

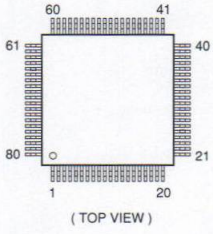



( TOP VIEW )

SBX1790-51

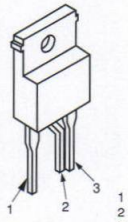


SDA5250M-C5-GEG

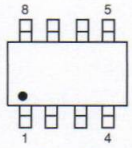



( TOP VIEW )

SE135N

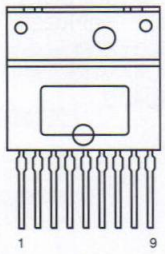



ST24E32M6TR

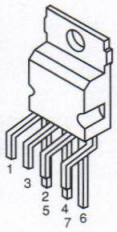



( TOP VIEW )

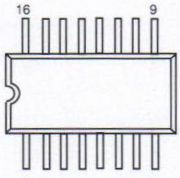
STR-S6708




STV9379

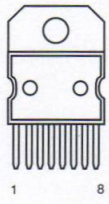



TDA4665T-T

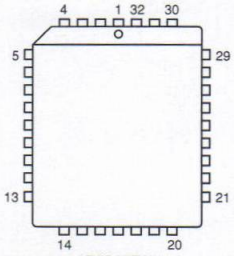



( TOP VIEW )

TDA7264

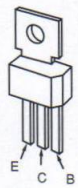



TMS27PC010A-15FML



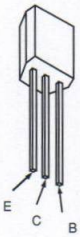

( TOP VIEW )

BF871-127

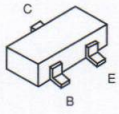



BF421L-AMMO
JA101TP-Q
2SA733-K
2SA933AS
2SA933S
2SA1091-O
2SC3502-E
2SC3601-E
2SC2808STP-R


DTA144ES
DTC114ES
DTC143TS
DTC144ES
2SC1740S-RT

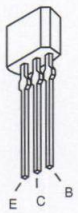



DTC144EK
2SA1037K
2SA1162-G
2SC2412K

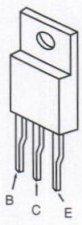


TLP721(D4-)

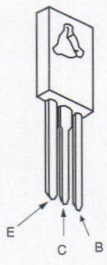

2SC2785-HFE




2SA1837

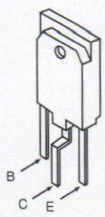



2SC2688-LK

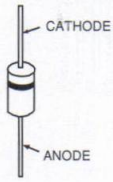



2SC4793

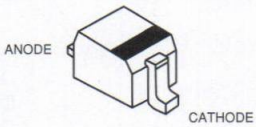

2SC4927-01



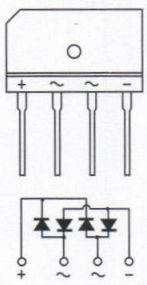

AU-01Z-V1 FML-G12S
EG-1Z-V1 GP08D
EGP20G RGP02
EL1Z RGP10GPKG23
EM1-V1 RGP15GPKG23
EU-1-V1 RU3YX-V1
EU2A RU4AM-T3
EU2-V1 RU4DS



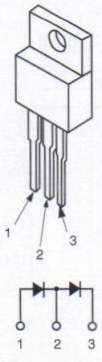

BAS216 MA8330
DTZ6.8C 1SS355
DTZ9.1 UDZ-TE-17-5.6B
DTZ33B UDZ-TE-17-9.1B



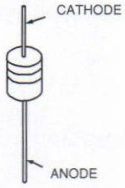

D4SB60L



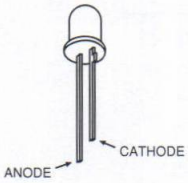

FMS-3FU




MTZJ-3.6A RD3.9ESB2
MTZJ-3.9B RD5.1ESB2
MTZJ-5.1B RD5.6ESB2
MTZJ-5.6B RD6.2ESB2
MTZJ-6.2B RD6.8ESB2
MTZJ-6.8B RD7.5ESB2
MTZJ-7.5C RD10ESB2
MTZJ-9.1 RD39ES-B2
MTZJ-T-77-9.1A
MTZJ-10 1SS133T-77
MTZJ-39




SLA-570KT3F



# SECTION 6
# EXPLODED VIEWS

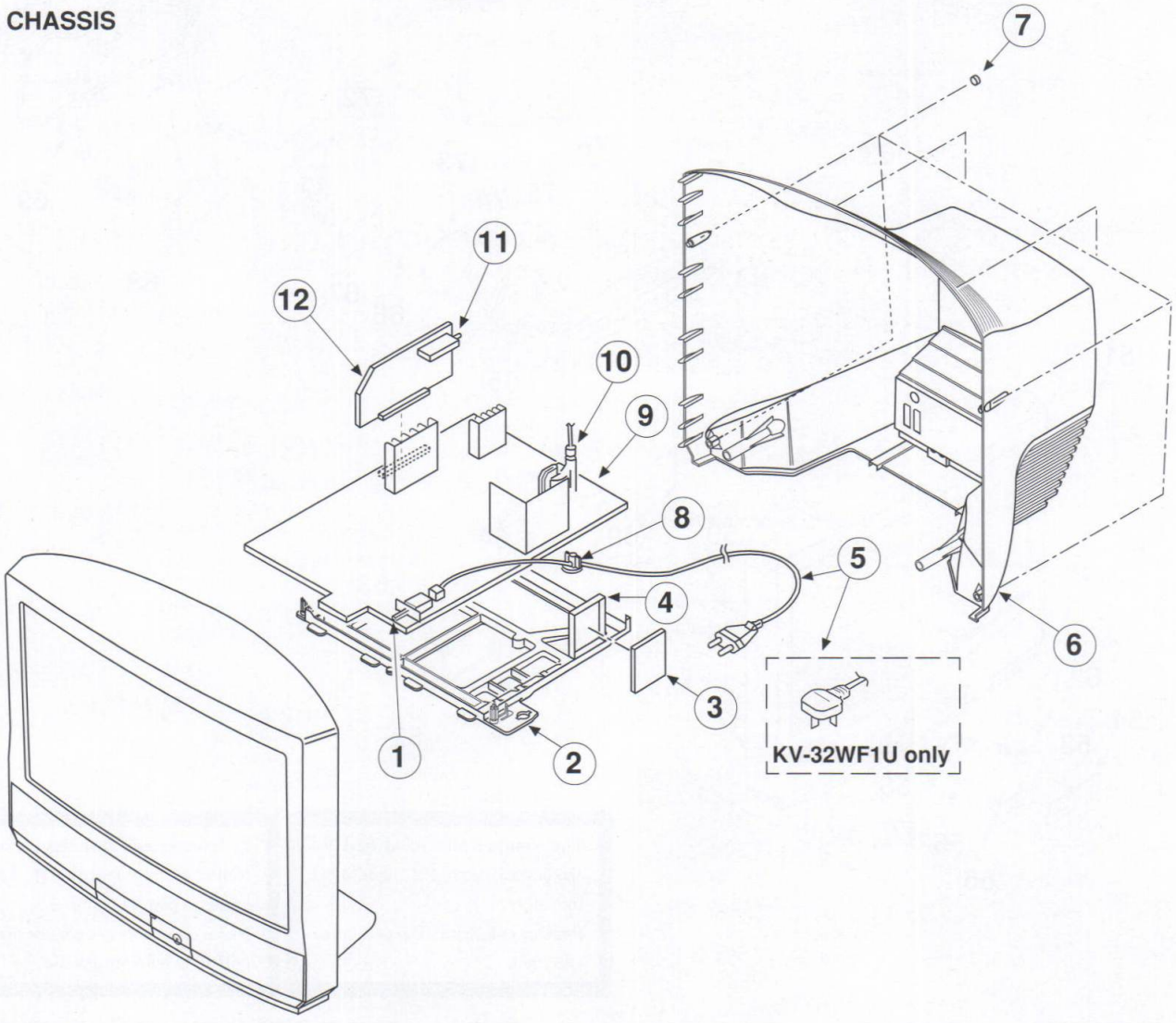
**NOTE :**

- Items with no part number and no description are not stocked because they are seldom required for routine service.
- The construction parts of an assembled part are indicated with a collation number in the remarks column.
- Items marked " * " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

The components identified by shading and marked ⚠ are critical for safety.
Replace only with the part number specified.

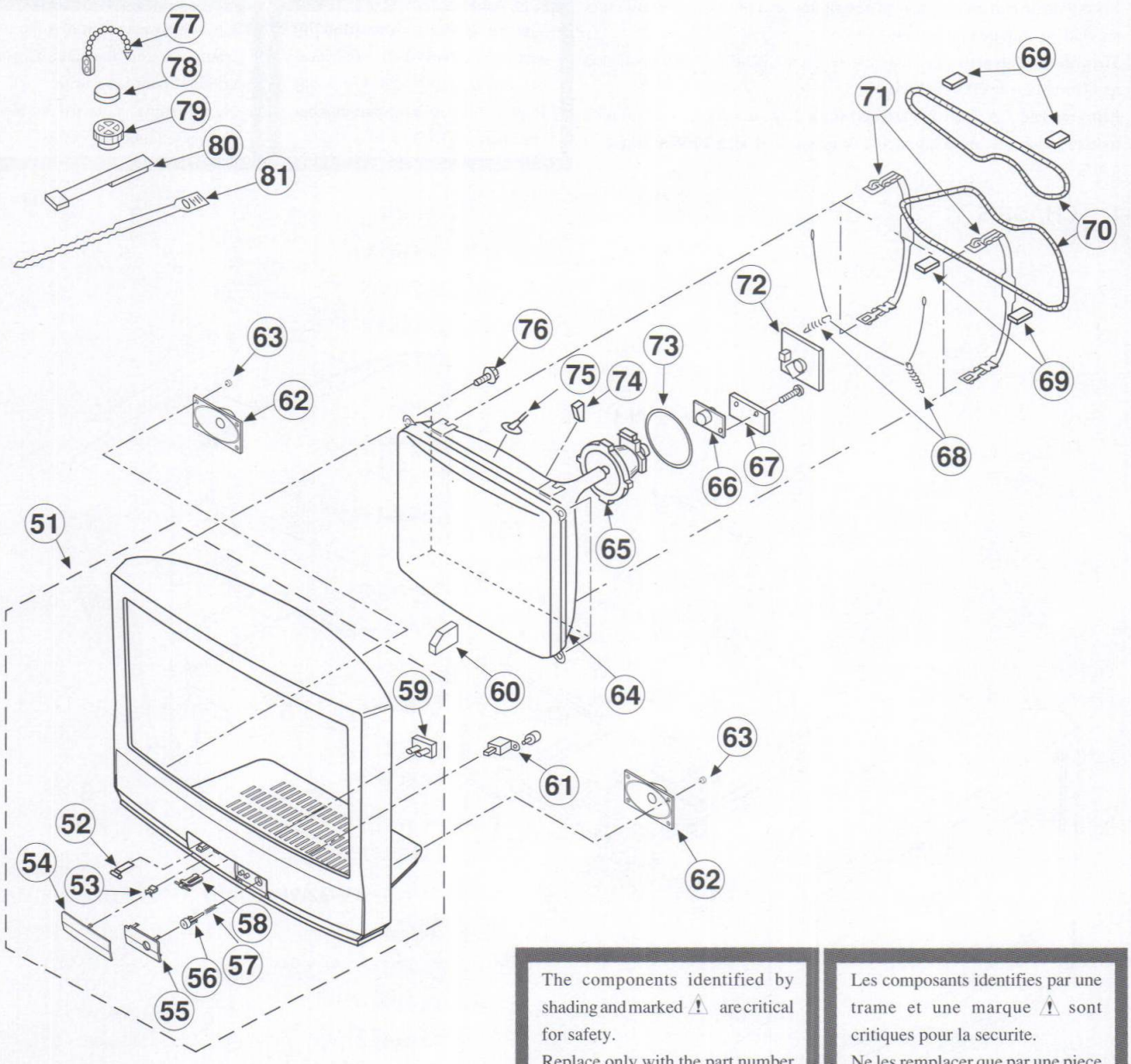
Les composants identifies par une trame et une marque ⚠ sont critiques pour la securite.
Ne les remplacer que par une piece portant le numero specifie.

## 6-1. CHASSIS




| REF NO | | PART NO | DESCRIPTION | REMARK |
|---|---|---|---|---|
| 1 | ⚠ | 1-571-433-21 | SWITCH, PUSH (AC POWER) | |
| 2 | | *4-203-315-01 | BRACKET, MAIN | |
| 3 | | *A-1640-284-A | D4 BOARD, COMPLETE | |
| 4 | | *4-203-752-01 | BRACKET, D4 | |
| 5 | ⚠ | 1-751-501-21 | CORD, POWER (WITH NOISE FILTER) 2.5A/250v (KV-32WF1A/32WF1B/32WF1D/ 32WF1E/32WF1K) | |
| | ⚠ | 1-776-204-12 | CORD, POWER (FILTER)(KV-32WF1U) 2.5A/250v | |
| 6 | | 4-203-754-01 | COVER, REAR | |
| 7 | | 4-039-358-01 | SCREW (4X16), (+) BV TAPPING | |
| 8 | ⚠ | *4-202-531-01 | AC CORD LOCK (SC) | |
| 9 | | *A-1642-216-A | D BOARD, COMPLETE | |
| 10 | ⚠ | 1-453-257-11 | TRANSFORMER ASSY, FLYBACK (NX-4126/U2A4) | |
| 11 | | 1-693-338-11 | TUNER (TUVIF) (AEP) (KV-32WF1A/32WF1D/32WF1E/32WF1K) | |
| | | 1-693-340-11 | TUNER (TUVIF) (FR) | (KV-32WF1B) |
| | | 1-693-339-11 | TUNER (TUVIF) (UK) | (KV-32WF1U) |
| 12 | | *A-1632-688-A | A BOARD, COMPLETE | (KV-32WF1A) |
| | | *A-1632-685-A | A BOARD, COMPLETE | (KV-32WF1B) |
| | | *A-1632-686-A | A BOARD, COMPLETE | (KV-32WF1D) |
| | | *A-1632-687-A | A BOARD, COMPLETE | (KV-32WF1E) |
| | | *A-1632-690-A | A BOARD, COMPLETE | (KV-32WF1K) |
| | | *A-1632-689-A | A BOARD, COMPLETE | (KV-32WF1U) |

## 6-2. PICTURE TUBE




The components identified by shading and marked ⚠ are critical for safety.
Replace only with the part number specified.

Les composants identifies par une trame et une marque ⚠ sont critiques pour la securite.
Ne les remplacer que par une piece portant le numero specifie.

| REF NO | | PART NO | DESCRIPTION | REMARK |
|---|---|---|---|---|
| 51 | | X-4200-343-1 | BEZNET ASSY | 52-59 |
| 52 | | 4-045-250-01 | DAMPER | |
| 53 | | 4-047-464-01 | CATCHER, PUSH | |
| 54 | | 4-203-723-31 | DOOR | |
| 55 | | 4-203-724-01 | WINDOW, ORNAMENTAL | |
| 56 | | 4-203-722-11 | BUTTON POWER | |
| 57 | | 4-202-964-01 | SPRING | |
| 58 | | 4-202-555-01 | SHAFT, DOOR | |
| 59 | | 4-203-739-11 | GUIDE, LIGHT | |
| 60 | | 4-203-098-01 | SUPPORTER, CRT | |
| 61 | | 4-042-940-21 | UNIT, LOCK | |
| 62 | | 1-505-782-11 | SPEAKER LOUD | |
| 63 | | 4-039-355-11 | SCREW (4X12), (+) BV TAPPING | |
| 64 | ⚠ | 8-735-037-05 | PICTURE TUBE (SD297)(W76LHT060X) | |
| 65 | ⚠ | 8-451-492-11 | DEFLECTION YOKE Y32C2A-M | |
| 66 | ⚠ | 8-453-011-11 | NECK ASSY (NA299-M) | |

| REF NO | | PART NO | DESCRIPTION | REMARK |
|---|---|---|---|---|
| 67 | | *A-1644-082-A | VM BOARD, COMPLETE | |
| 68 | | 4-369-318-31 | SPRING, EXTENSION | |
| 69 | | *4-203-390-01 | CUSHION, DGC | |
| 70 | ⚠ | 1-416-452-11 | COIL, DEGAUSSING | |
| 71 | | 4-045-294-01 | HOLDER, DGC | |
| 72 | | A-1638-078-A | C BOARD, COMPLETE | |
| 73 | | 1-452-724-11 | COIL, NA ROTATION (RT 165) | |
| 74 | | 3-704-495-01 | SPACER, DY | |
| 75 | ⚠ | 1-251-528-21 | CAP ASSY HIGH VOLTAGE | |
| 76 | | 4-036-188-01 | SCREW, (M), PT | |
| 77 | | 4-308-870-00 | CLIP, LEAD WIRE | |
| 78 | | 1-452-032-00 | MAGNET, DISK; 10MM Ø | |
| 79 | | 1-452-094-00 | MAGNET, ROTATABLE DISK; 15MM Ø | |
| 80 | | X-4387-214-1 | PERMALLOY ASSY, CORRECTION | |
| 81 | | 3-701-007-00 | BAND, BINDING | |

# SECTION 7
# ELECTRICAL PARTS LIST

The components identified by shading and marked ⚠ are critical for safety.
Replace only with the part number specified.

Les composants identifies par une trame et une marque ⚠ sont critiques pour la securite.
Ne les remplacer que par une piece portant le numero specifie.

- Items marked " * " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.

RESISTORS

- All resistors are in ohms
- F : nonflammable

When indicating parts by reference number, please include the board name.

CAPACITORS MF : mF, PF : mmF

COILS MMH : mH, μH : mH

A

| REF.NO. | PART NO. | DESCRIPTION | | REMARK |
|---|---|---|---|---|
| | *A-1632-688-A | A BOARD COMPLETE (KV-32WF1A) ********** | | |
| | *A-1632-685-A | A BOARD COMPLETE (KV-32WF1B) ********** | | |
| | *A-1632-686-A | A BOARD COMPLETE (KV-32WF1D) ********** | | |
| | *A-1632-687-A | A BOARD COMPLETE (KV-32WF1E) ********** | | |
| | *A-1632-690-A | A BOARD COMPLETE (KV-32WF1K) ********** | | |
| | *A-1632-689-A | A BOARD COMPLETE (KV-32WF1U) ********** | | |
| | 1-750-797-11 | SOCKET, PLCC | | |
| | < CAPACITOR > | | | |
| C1 | 1-163-038-00 | CERAMIC CHIP 0.1MF | | 25V |
| C2 | 1-126-967-11 | ELECT 47MF | 20% | 16V |
| C3 | 1-163-104-00 | CERAMIC CHIP 30PF | 5% | 50V |
| C4 | 1-163-104-00 | CERAMIC CHIP 30PF | 5% | 50V |
| C8 | 1-163-038-00 | CERAMIC CHIP 0.1MF | | 25V |
| C10 | 1-163-243-91 | CERAMIC CHIP 47PF | 5% | 25V |
| C11 | 1-163-243-91 | CERAMIC CHIP 47PF | 5% | 25V |
| C15 | 1-164-695-11 | CERAMIC CHIP 0.0022MF | 5% | 50V |
| C18 | 1-163-038-00 | CERAMIC CHIP 0.1MF | | 25V |
| C20 | 1-164-232-11 | CERAMIC CHIP 0.01MF | 10% | 50V |
| C21 | 1-164-232-11 | CERAMIC CHIP 0.01MF | 10% | 50V |
| C22 | 1-163-117-00 | CERAMIC CHIP 100PF | 5% | 50V |
| C24 | 1-163-141-00 | CERAMIC CHIP 0.001MF | 5% | 50V |
| C26 | 1-104-660-91 | ELECT 47MF | 20% | 16v |
| C40 | 1-164-492-11 | CERAMIC CHIP 0.15MF | 10% | 16V |
| C41 | 1-163-989-11 | CERAMIC CHIP 0.033MF | 10% | 25V |
| C42 | 1-163-989-11 | CERAMIC CHIP 0.033MF | 10% | 25V |
| C43 | 1-163-121-91 | CERAMIC CHIP 150PF | 5% | 50V |
| C44 | 1-164-346-11 | CERAMIC CHIP 1MF | | 16V |
| C45 | 1-163-038-00 | CERAMIC CHIP 0.1MF | | 25V |
| C80 | 1-163-117-00 | CERAMIC CHIP 100PF | 5% | 50V |
| C81 | 1-126-959-11 | ELECT 0.47MF | 20% | 50V |
| C82 | 1-163-037-11 | CERAMIC CHIP 0.022MF | 10% | 50V |
| C90 | 1-163-038-00 | CERAMIC CHIP 0.1MF | | 25V |
| C95 | 8-719-158-15 | DIODE RD5.6S-B | | |
| C101 | 1-163-038-00 | CERAMIC CHIP 0.1MF | | 25V |
| C102 | 1-126-934-11 | ELECT 220MF | 20% | 16V |
| C103 | 1-126-965-11 | ELECT 22MF | 20% | 50V |
| C104 | 1-163-117-00 | CERAMIC CHIP 100PF | 5% | 50V |
| C110 | 1-126-967-11 | ELECT 47MF | 20% | 16V |
| C112 | 1-163-141-00 | CERAMIC CHIP 0.001MF | 5% | 50V |

| REF.NO. | PART NO. | DESCRIPTION | | REMARK |
|---|---|---|---|---|
| C113 | 1-126-967-11 | ELECT 47MF | 20% | 16V |
| C120 | 1-163-117-00 | CERAMIC CHIP 100PF | 5% | 50V |
| C121 | 1-163-113-00 | CERAMIC CHIP 68PF | 5% | 50V |
| C122 | 1-163-137-00 | CERAMIC CHIP 680PF | 5% | 50V |
| C123 | 1-163-113-00 | CERAMIC CHIP 68PF | 5% | 50V |
| C124 | 1-163-038-00 | CERAMIC CHIP 0.1MF | | 25V |
| C201 | 1-164-004-11 | CERAMIC CHIP 0.1MF | 10% | 25V |
| C202 | 1-164-004-11 | CERAMIC CHIP 0.1MF | 10% | 25V |
| C203 | 1-104-661-91 | ELECT 330MF | 20% | 16V |
| C204 | 1-163-038-00 | CERAMIC CHIP 0.1MF | | 25V |
| C205 | 1-126-965-11 | ELECT 22MF | 20% | 50V |
| C206 | 1-163-141-00 | CERAMIC CHIP 0.001MF | 5% | 50V |
| C207 | 1-126-964-11 | ELECT 10MF | 20% | 50V |
| C208 | 1-126-964-11 | ELECT 10MF | 20% | 50V |
| C209 | 1-126-964-11 | ELECT 10MF | 20% | 50V |
| C210 | 1-216-295-00 | CONDUCTOR, CHIP | | |
| C211 | 1-126-964-11 | ELECT 10MF | 20% | 50V |
| C212 | 1-164-346-11 | CERAMIC CHIP 1MF | | 16V |
| C213 | 1-163-133-00 | CERAMIC CHIP 470PF | 5% | 50V |
| C214 | 1-164-346-11 | CERAMIC CHIP 1MF | | 16V |
| C215 | 1-163-133-00 | CERAMIC CHIP 470PF | 5% | 50V |
| C216 | 1-126-967-11 | ELECT 47MF | 20% | 16V |
| C217 | 1-164-232-11 | CERAMIC CHIP 0.01MF | 10% | 50V |
| C218 | 1-126-967-11 | ELECT 47MF | 20% | 16V |
| C219 | 1-164-232-11 | CERAMIC CHIP 0.01MF | 10% | 50V |
| C220 | 1-126-964-11 | ELECT 10MF | 20% | 50V |
| C221 | 1-164-505-11 | CERAMIC CHIP 2.2MF | | 16V |
| C222 | 1-164-346-11 | CERAMIC CHIP 1MF | | 16V |
| C223 | 1-163-133-00 | CERAMIC CHIP 470PF | 5% | 50V |
| C224 | 1-164-346-11 | CERAMIC CHIP 1MF | | 16V |
| C225 | 1-163-133-00 | CERAMIC CHIP 470PF | 5% | 50V |
| C226 | 1-126-967-11 | ELECT 47MF | 20% | 16V |
| C227 | 1-164-232-11 | CERAMIC CHIP 0.01MF | 10% | 50V |
| C228 | 1-126-967-11 | ELECT 47MF | 20% | 16V |
| C229 | 1-164-232-11 | CERAMIC CHIP 0.01MF | 10% | 50V |
| C230 | 1-216-295-00 | CONDUCTOR, CHIP | | |
| C231 | 1-163-038-00 | CERAMIC CHIP 0.1MF | | 25V |
| C232 | 1-126-962-11 | ELECT 3.3MF | 20% | 50V |
| C240 | 1-164-346-11 | CERAMIC CHIP 1MF | | 16V |
| C241 | 1-164-346-11 | CERAMIC CHIP 1MF | | 16V |
| C251 | 1-163-087-00 | CERAMIC CHIP 4PF | 0.25PF | 50V |
| C252 | 1-163-087-00 | CERAMIC CHIP 4PF | 0.25PF | 50V |
| C253 | 1-163-117-00 | CERAMIC CHIP 100PF | 5% | 50V |
| C254 | 1-163-109-00 | CERAMIC CHIP 47PF | 5% | 50V |
| C255 | 1-163-117-00 | CERAMIC CHIP 100PF | 5% | 50V |

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| REF.NO. | PART NO. | DESCRIPTION | | REMARK |
|---|---|---|---|---|
| C256 | 1-163-038-00 | CERAMIC CHIP 0.1MF | | 25V |
| C257 | 1-126-965-11 | ELECT 22MF | 20% | 50V |
| C258 | 1-126-964-11 | ELECT 10MF | 20% | 50V |
| C259 | 1-164-336-11 | CERAMIC CHIP 0.33MF | | 25V |
| C260 | 1-163-038-00 | CERAMIC CHIP 0.1MF | | 25V |
| C261 | 1-163-133-00 | CERAMIC CHIP 470PF | 5% | 50V |
| C262 | 1-163-133-00 | CERAMIC CHIP 470PF | 5% | 50V |
| C263 | 1-163-038-00 | CERAMIC CHIP 0.1MF | | 25V |
| C264 | 1-126-962-11 | ELECT 3.3MF | 20% | 50V |
| C265 | 1-126-964-11 | ELECT 10MF | 20% | 50V |
| C266 | 1-126-964-11 | ELECT 10MF | 20% | 50V |
| C267 | 1-126-965-11 | ELECT 22MF | 20% | 50V |
| C268 | 1-163-038-00 | CERAMIC CHIP 0.1MF | | 25V |
| C269 | 1-163-131-00 | CERAMIC CHIP 390PF | 5% | 50V |
| C270 | 1-163-131-00 | CERAMIC CHIP 390PF | 5% | 50V |
| C271 | 1-163-141-00 | CERAMIC CHIP 0.001MF | 5% | 50V |
| C272 | 1-163-141-00 | CERAMIC CHIP 0.001MF | 5% | 50V |
| C273 | 1-163-141-00 | CERAMIC CHIP 0.001MF | 5% | 50V |
| C274 | 1-163-141-00 | CERAMIC CHIP 0.001MF | 5% | 50V |
| C275 | 1-164-346-11 | CERAMIC CHIP 1MF | | 16V |
| C276 | 1-164-346-11 | CERAMIC CHIP 1MF | | 16V |
| C277 | 1-164-346-11 | CERAMIC CHIP 1MF | | 16V |
| C278 | 1-164-346-11 | CERAMIC CHIP 1MF | | 16V |
| C279 | 1-126-965-11 | ELECT 22MF | 20% | 50V |
| C280 | 1-163-038-00 | CERAMIC CHIP 0.1MF | | 25V |
| C281 | 1-126-965-11 | ELECT 22MF | 20% | 50V |
| C282 | 1-163-038-00 | CERAMIC CHIP 0.1MF | | 25V |
| C300 | 1-163-109-00 | CERAMIC CHIP 47PF | 5% | 50V |
| C301 | 1-163-038-00 | CERAMIC CHIP 0.1MF | | 25V |
| C302 | 1-163-141-00 | CERAMIC CHIP 0.001MF | 5% | 50V |
| C303 | 1-163-141-00 | CERAMIC CHIP 0.001MF | 5% | 50V |
| C304 | 1-163-038-00 | CERAMIC CHIP 0.1MF | | 25V |
| C305 | 1-163-038-00 | CERAMIC CHIP 0.1MF | | 25V |
| C306 | 1-164-232-11 | CERAMIC CHIP 0.01MF | 10% | 50V |
| C307 | 1-164-232-11 | CERAMIC CHIP 0.01MF | 10% | 50V |
| C308 | 1-164-232-11 | CERAMIC CHIP 0.01MF | 10% | 50V |
| C309 | 1-164-346-11 | CERAMIC CHIP 1MF | | 16V |
| C310 | 1-164-346-11 | CERAMIC CHIP 1MF | | 16V |
| C311 | 1-164-346-11 | CERAMIC CHIP 1MF | | 16V |
| C312 | 1-164-505-11 | CERAMIC CHIP 2.2MF | | 16V |
| C313 | 1-163-141-00 | CERAMIC CHIP 0.001MF | 5% | 50V |
| C315 | 1-216-295-00 | CONDUCTOR, CHIP | | |
| C317 | 1-163-038-00 | CERAMIC CHIP 0.1MF | | 25V |
| C319 | 1-163-017-00 | CERAMIC CHIP 0.0047MF | 10% | 50V |
| C320 | 1-126-965-11 | ELECT 22MF | 20% | 50V |
| C321 | 1-164-232-11 | CERAMIC CHIP 0.01MF | 10% | 50V |
| C322 | 1-163-037-11 | CERAMIC CHIP 0.022MF | 10% | 50V |
| C323 | 1-163-037-11 | CERAMIC CHIP 0.022MF | 10% | 50V |
| C324 | 1-163-037-11 | CERAMIC CHIP 0.022MF | 10% | 50V |
| C325 | 1-164-346-11 | CERAMIC CHIP 1MF | | 16V |
| C326 | 1-163-141-00 | CERAMIC CHIP 0.001MF | 5% | 50V |
| C327 | 1-137-374-11 | FILM 0.047MF | 5% | 50V |
| C328 | 1-126-964-11 | ELECT 10MF | 20% | 50V |
| C329 | 1-164-232-11 | CERAMIC CHIP 0.01MF | 10% | 50V |
| C330 | 1-130-777-00 | FILM 0.1MF | 5% | 63V |
| C331 | 1-137-581-11 | FILM 0.1MF | 5% | 100V |
| C332 | 1-164-232-11 | CERAMIC CHIP 0.01MF | 10% | 50V |
| C333 | 1-126-933-11 | ELECT 100MF | 20% | 16V |
| C334 | 1-164-232-11 | CERAMIC CHIP 0.01MF | 10% | 50V |
| C335 | 1-164-004-11 | CERAMIC CHIP 0.1MF | 10% | 25V |
| C336 | 1-163-009-11 | CERAMIC CHIP 0.001MF | 10% | 50V |

| REF.NO. | PART NO. | DESCRIPTION | | REMARK |
|---|---|---|---|---|
| C337 | 1-163-009-11 | CERAMIC CHIP 0.001MF | 10% | 50V |
| C338 | 1-164-346-11 | CERAMIC CHIP 1MF | | 16V |
| C339 | 1-164-232-11 | CERAMIC CHIP 0.01MF | 10% | 50V |
| C340 | 1-126-933-11 | ELECT 100MF | 20% | 16V |
| C341 | 1-164-005-11 | CERAMIC CHIP 0.47MF | | 25V |
| C342 | 1-164-346-11 | CERAMIC CHIP 1MF | | 16V |
| C343 | 1-163-017-00 | CERAMIC CHIP 0.0047MF | 10% | 50V |
| C344 | 1-163-117-00 | CERAMIC CHIP 100PF | 5% | 50V |
| C347 | 1-164-004-11 | CERAMIC CHIP 0.1MF | 10% | 25V |
| C348 | 1-163-133-00 | CERAMIC CHIP 470PF | 5% | 50V |
| C350 | 1-126-964-11 | ELECT 10MF | 20% | 50V |
| C351 | 1-164-505-11 | CERAMIC CHIP 2.2MF | | 16V |
| C352 | 1-164-005-11 | CERAMIC CHIP 0.47MF | | 25V |
| C353 | 1-164-505-11 | CERAMIC CHIP 2.2MF | | 16V |
| C354 | 1-164-005-11 | CERAMIC CHIP 0.47MF | | 25V |
| C355 | 1-126-965-11 | ELECT 22MF | 20% | 50V |
| C356 | 1-164-232-11 | CERAMIC CHIP 0.01MF | 10% | 50V |
| C357 | 1-163-133-00 | CERAMIC CHIP 470PF | 5% | 50V |
| C358 | 1-164-005-11 | CERAMIC CHIP 0.47MF | | 25V |
| C359 | 1-163-231-11 | CERAMIC CHIP 15PF | 5% | 50V |
| C360 | 1-163-231-11 | CERAMIC CHIP 15PF | 5% | 50V |
| C370 | 1-164-505-11 | CERAMIC CHIP 2.2MF | | 16V |
| | | (KV-32WF1B/32WF1D/32WF1E/32WF1K) | | |
| C371 | 1-163-141-00 | CERAMIC CHIP 0.001MF | 5% | 50V |
| C372 | 1-164-004-11 | CERAMIC CHIP 0.1MF | 10% | 25V |
| | | (KV-32WF1B/32WF1D/32WF1E/32WF1K) | | |
| C373 | 1-164-489-11 | CERAMIC CHIP 0.22MF | 10% | 16V |
| | | (KV-32WF1B/32WF1D/32WF1E/32WF1K) | | |
| | | < FILTER > | | |
| CF120 | 1-409-327-00 | TRAP, CERAMIC (6.5MHZ) | | |
| | | (KV-32WF1A/32WF1B/32WF1D/32WF1E) | | |
| | | < CONNECTOR > | | |
| CN1 | 1-695-302-11 | CONNECTOR, BOARD TO BOARD 50P | | |
| CN2 | *1-568-880-51 | PIN, CONNECTOR 5P | | |
| CN4 | 1-568-878-51 | PIN, CONNECTOR 3P | | |
| CN201 | 1-766-296-11 | CONNECTOR, DUAL SCART | | |
| CN301 | *1-568-882-51 | PIN, CONNECTOR 7P | | |
| | | < DIODE > | | |
| D2 | 8-719-988-62 | DIODE 1SS355 | | |
| D12 | 8-719-158-15 | DIODE RD5.6S-B | | |
| D14 | 8-719-158-15 | DIODE RD5.6S-B | | |
| D15 | 8-719-158-15 | DIODE RD5.6S-B | | |
| D101 | 8-719-977-81 | DIODE DTZ33B | | |
| D201 | 8-719-977-22 | DIODE DTZ9.1 | | |
| D202 | 8-719-977-22 | DIODE DTZ9.1 | | |
| D203 | 8-719-977-22 | DIODE DTZ9.1 | | |
| D204 | 8-719-977-22 | DIODE DTZ9.1 | | |
| D205 | 8-719-977-22 | DIODE DTZ9.1 | | |
| D206 | 8-719-977-22 | DIODE DTZ9.1 | | |
| D207 | 8-719-977-22 | DIODE DTZ9.1 | | |
| D208 | 8-719-977-22 | DIODE DTZ9.1 | | |
| D209 | 8-719-977-22 | DIODE DTZ9.1 | | |
| D210 | 8-719-977-22 | DIODE DTZ9.1 | | |
| D211 | 8-719-977-22 | DIODE DTZ9.1 | | |
| D212 | 8-719-977-22 | DIODE DTZ9.1 | | |
| D213 | 8-719-977-22 | DIODE DTZ9.1 | | |
| D214 | 8-719-977-22 | DIODE DTZ9.1 | | |
| D215 | 8-719-977-22 | DIODE DTZ9.1 | | |

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| REF.NO. | PART NO. | DESCRIPTION | REMARK |
|---|---|---|---|
| D216 | 8-719-158-15 | DIODE RD5.6S-B | |
| D217 | 8-719-158-15 | DIODE RD5.6S-B | |
| D218 | 8-719-158-15 | DIODE RD5.6S-B | |
| D219 | 8-719-977-22 | DIODE DTZ9.1 | |
| D220 | 8-719-988-62 | DIODE 1SS355 | |
| D221 | 8-719-988-62 | DIODE 1SS355 | |
| D222 | 8-719-977-22 | DIODE DTZ9.1 | |
| D223 | 8-719-977-22 | DIODE DTZ9.1 | |
| D224 | 8-719-977-22 | DIODE DTZ9.1 | |
| D225 | 8-719-977-22 | DIODE DTZ9.1 | |
| D226 | 8-719-977-22 | DIODE DTZ9.1 | |
| D227 | 8-719-977-13 | DIODE DTZ6.8C | |
| D229 | 8-719-977-22 | DIODE DTZ9.1 | |
| D230 | 8-719-158-15 | DIODE RD5.6S-B | |
| D251 | 8-719-047-16 | DIODE BAS216 | |
| D252 | 8-719-158-15 | DIODE RD5.6S-B | |
| D253 | 8-719-158-15 | DIODE RD5.6S-B | |
| D302 | 8-719-988-62 | DIODE 1SS355 | |
| D320 | 8-719-977-22 | DIODE DTZ9.1 | |
| D370 | 8-719-047-16 | DIODE BAS216 | (KV-32WF1B/32WF1D/32WF1E/32WF1K) |
| | | < ENCAPSULATED FILTER > | |
| FL101 | 1-236-071-11 | ENCAPSULATED COMPONENT | |
| FL201 | 1-236-071-11 | ENCAPSULATED COMPONENT | |
| FL202 | 1-236-071-11 | ENCAPSULATED COMPONENT | |
| FL203 | 1-236-071-11 | ENCAPSULATED COMPONENT | |
| | | < IC > | |
| IC1 | 8-759-376-75 | IC SDA5250M-C5-GEG | |
| IC2 | 8-759-334-20 | IC ST24E32M6TR | |
| IC3 | 8-759-452-99 | IC TMS27PC010A-15FMBE606 | (KV-32WF1A/32WF1B/32WF1D/32WF1K) |
| | 8-759-452-84 | IC TMS27PC010A-15FMBW606 | (KV-32WF1E/32WF1U) |
| IC4 | 8-759-394-57 | IC PST593C-MMP-4P | |
| IC201 | 8-752-081-26 | IC CXA2040AQ-T4 | |
| IC202 | 8-759-376-80 | IC MSP3410B-PS-F7-T | |
| IC203 | 8-759-385-76 | IC MC14052BDR2 | |
| IC205 | 8-759-394-57 | IC PST593C-MMP-4P | |
| IC301 | 8-752-081-43 | IC CXA2076Q-TL | |
| IC302 | 8-759-288-85 | IC TDA4665T-T | |
| IC303 | 8-759-430-79 | IC TDA8395T/N3 | |
| | | < COIL > | |
| L10 | 1-410-379-41 | INDUCTOR CHIP 6.8UH | |
| L102 | 1-408-406-00 | INDUCTOR 5.6UH | (KV-32WF1A/32WF1B/32WF1D/32WF1E) |
| L111 | 1-410-993-11 | INDUCTOR CHIP 1UH | |
| L120 | 1-408-408-00 | INDUCTOR 8.2UH | |
| L121 | 1-408-397-00 | INDUCTOR 1UH | |
| L122 | 1-408-408-00 | INDUCTOR 8.2UH | |
| L300 | 1-408-607-31 | INDUCTOR 22UH | |
| | | < TRANSISTOR > | |
| Q1 | 8-729-620-06 | TRANSISTOR 2SC3052-EF | |
| Q4 | 8-729-620-06 | TRANSISTOR 2SC3052-EF | |
| Q10 | 8-729-216-22 | TRANSISTOR 2SA1162-G | |
| Q11 | 8-729-216-22 | TRANSISTOR 2SA1162-G | |
| Q12 | 8-729-216-22 | TRANSISTOR 2SA1162-G | |
| Q15 | 8-729-216-22 | TRANSISTOR 2SA1162-G | |
| Q17 | 8-729-216-22 | TRANSISTOR 2SA1162-G | |
| Q80 | 8-729-620-06 | TRANSISTOR 2SC3052-EF | |
| Q81 | 8-729-216-22 | TRANSISTOR 2SA1162-G | |
| Q82 | 8-729-620-06 | TRANSISTOR 2SC3052-EF | |
| Q110 | 8-729-620-06 | TRANSISTOR 2SC3052-EF | |
| Q111 | 8-729-216-22 | TRANSISTOR 2SA1162-G | |
| Q112 | 8-729-620-06 | TRANSISTOR 2SC3052-EF | |
| Q120 | 8-729-620-06 | TRANSISTOR 2SC3052-EF | |
| Q121 | 8-729-620-06 | TRANSISTOR 2SC3052-EF | (KV-32WF1A/32WF1B/32WF1D/32WF1E) |
| Q122 | 8-729-620-06 | TRANSISTOR 2SC3052-EF | |
| Q124 | 8-729-620-06 | TRANSISTOR 2SC3052-EF | (KV-32WF1A/32WF1B/32WF1D/32WF1E) |
| Q130 | 8-729-216-22 | TRANSISTOR 2SA1162-G | (KV-32WF1A/32WF1B/32WF1D/32WF1E) |
| Q201 | 8-729-620-06 | TRANSISTOR 2SC3052-EF | |
| Q202 | 8-729-620-06 | TRANSISTOR 2SC3052-EF | |
| Q203 | 8-729-620-06 | TRANSISTOR 2SC3052-EF | |
| Q204 | 8-729-620-06 | TRANSISTOR 2SC3052-EF | |
| Q205 | 8-729-901-01 | TRANSISTOR DTC144EKA | |
| Q206 | 8-729-216-22 | TRANSISTOR 2SA1162-G | |
| Q207 | 8-729-216-22 | TRANSISTOR 2SA1162-G | |
| Q208 | 8-729-216-22 | TRANSISTOR 2SA1162-G | |
| Q209 | 8-729-620-06 | TRANSISTOR 2SC3052-EF | |
| Q210 | 8-729-901-01 | TRANSISTOR DTC144EKA | |
| Q300 | 8-729-901-01 | TRANSISTOR DTC144EKA | |
| Q304 | 8-729-620-06 | TRANSISTOR 2SC3052-EF | |
| Q305 | 8-729-620-06 | TRANSISTOR 2SC3052-EF | |
| Q306 | 8-729-901-01 | TRANSISTOR DTC144EKA | |
| Q330 | 8-729-216-22 | TRANSISTOR 2SA1162-G | |
| Q331 | 8-729-620-06 | TRANSISTOR 2SC3052-EF | |
| Q332 | 8-729-620-06 | TRANSISTOR 2SC3052-EF | |
| Q1002 | 8-729-216-22 | TRANSISTOR 2SA1162-G | |
| | | < RESISTOR > | |
| JR101 | 1-216-295-00 | CONDUCTOR, CHIP | |
| JR102 | 1-216-295-00 | CONDUCTOR, CHIP | |
| JR201 | 1-216-295-00 | CONDUCTOR, CHIP | |
| R1 | 1-216-049-00 | METAL GLAZE 1K 5% 1/10W | |
| R2 | 1-216-025-00 | METAL GLAZE 100 5% 1/10W | |
| R3 | 1-216-025-00 | METAL GLAZE 100 5% 1/10W | |
| R4 | 1-216-013-00 | METAL GLAZE 33 5% 1/10W | |
| R5 | 1-216-065-00 | METAL GLAZE 4.7K 5% 1/10W | |
| R7 | 1-216-041-00 | METAL GLAZE 470 5% 1/10W | |
| R9 | 1-216-041-00 | METAL GLAZE 470 5% 1/10W | |
| R10 | 1-216-041-91 | METAL GLAZE 470 5% 1/10W | |
| R11 | 1-216-041-91 | METAL GLAZE 470 5% 1/10W | |
| R12 | 1-216-041-91 | METAL GLAZE 470 5% 1/10W | |
| R13 | 1-216-029-00 | METAL GLAZE 150 5% 1/10W | |
| R14 | 1-216-029-00 | METAL GLAZE 150 5% 1/10W | |
| R15 | 1-216-029-00 | METAL GLAZE 150 5% 1/10W | |
| R16 | 1-216-025-00 | METAL GLAZE 100 5% 1/10W | |
| R17 | 1-216-025-00 | METAL GLAZE 100 5% 1/10W | |
| R18 | 1-216-025-00 | METAL GLAZE 100 5% 1/10W | |
| R19 | 1-216-025-00 | METAL GLAZE 100 5% 1/10W | |
| R20 | 1-216-025-00 | METAL GLAZE 100 5% 1/10W | |
| R21 | 1-216-025-00 | METAL GLAZE 100 5% 1/10W | |
| R24 | 1-216-065-00 | METAL GLAZE 4.7K 5% 1/10W | |
| R25 | 1-216-065-00 | METAL GLAZE 4.7K 5% 1/10W | |
| R28 | 1-216-065-00 | METAL GLAZE 4.7K 5% 1/10W | |

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| REF.NO. | PART NO. | DESCRIPTION | REMARK |
|---|---|---|---|
| R29 | 1-216-065-00 | METAL GLAZE 4.7K 5% 1/10W | |
| R30 | 1-216-065-00 | METAL GLAZE 4.7K 5% 1/10W | |
| R31 | 1-216-065-00 | METAL GLAZE 4.7K 5% 1/10W | |
| R33 | 1-216-025-00 | METAL GLAZE 100 5% 1/10W | |
| R34 | 1-216-025-00 | METAL GLAZE 100 5% 1/10W | |
| R35 | 1-216-025-00 | METAL GLAZE 100 5% 1/10W | |
| R36 | 1-216-065-71 | METAL GLAZE 4.7K 5% 1/10W | |
| R37 | 1-216-065-71 | METAL GLAZE 4.7K 5% 1/10W | |
| R38 | 1-216-065-71 | METAL GLAZE 4.7K 5% 1/10W | |
| R39 | 1-216-073-00 | METAL GLAZE 10K 5% 1/10W | |
| R40 | 1-216-071-00 | METAL GLAZE 8.2K 5% 1/10W | |
| R41 | 1-216-129-00 | METAL GLAZE 2.2M 5% 1/10W | |
| R42 | 1-216-069-91 | METAL GLAZE 6.8K 5% 1/10W | |
| R44 | 1-216-069-91 | METAL GLAZE 6.8K 5% 1/10W | |
| R46 | 1-216-095-00 | METAL GLAZE 82K 5% 1/10W | |
| R47 | 1-216-041-00 | METAL GLAZE 470 5% 1/10W | |
| R48 | 1-216-109-00 | METAL GLAZE 330K 5% 1/10W | |
| R49 | 1-216-025-00 | METAL GLAZE 100 5% 1/10W | |
| R50 | 1-216-065-00 | METAL GLAZE 4.7K 5% 1/10W | |
| R51 | 1-216-059-00 | METAL GLAZE 2.7K 5% 1/10W | |
| R52 | 1-216-065-00 | METAL GLAZE 4.7K 5% 1/10W | |
| R53 | 1-216-059-00 | METAL GLAZE 2.7K 5% 1/10W | |
| R54 | 1-216-025-00 | METAL GLAZE 100 5% 1/10W | |
| R55 | 1-216-079-00 | METAL GLAZE 18K 5% 1/10W | |
| R56 | 1-216-079-00 | METAL GLAZE 18K 5% 1/10W | |
| R57 | 1-216-079-00 | METAL GLAZE 18K 5% 1/10W | |
| R58 | 1-216-063-91 | METAL GLAZE 3.9K 5% 1/10W | |
| R59 | 1-216-025-00 | METAL GLAZE 100 5% 1/10W | |
| R60 | 1-216-025-00 | METAL GLAZE 100 5% 1/10W | |
| R61 | 1-216-025-00 | METAL GLAZE 100 5% 1/10W | |
| R62 | 1-216-025-00 | METAL GLAZE 100 5% 1/10W | |
| R63 | 1-216-025-00 | METAL GLAZE 100 5% 1/10W | |
| R64 | 1-216-025-00 | METAL GLAZE 100 5% 1/10W | |
| R65 | 1-216-025-00 | METAL GLAZE 100 5% 1/10W | |
| R66 | 1-216-057-00 | METAL GLAZE 2.2K 5% 1/10W | |
| R67 | 1-216-057-00 | METAL GLAZE 2.2K 5% 1/10W | |
| R68 | 1-216-025-00 | METAL GLAZE 100 5% 1/10W | |
| R69 | 1-216-049-00 | METAL GLAZE 1K 5% 1/10W | |
| R70 | 1-216-025-00 | METAL GLAZE 100 5% 1/10W | |
| R71 | 1-216-025-00 | METAL GLAZE 100 5% 1/10W | |
| R72 | 1-216-025-00 | METAL GLAZE 100 5% 1/10W | |
| R73 | 1-216-025-00 | METAL GLAZE 100 5% 1/10W | |
| R74 | 1-216-025-00 | METAL GLAZE 100 5% 1/10W | |
| R75 | 1-216-025-00 | METAL GLAZE 100 5% 1/10W | |
| R76 | 1-216-025-00 | METAL GLAZE 100 5% 1/10W | |
| R77 | 1-216-025-00 | METAL GLAZE 100 5% 1/10W | |
| R78 | 1-216-025-00 | METAL GLAZE 100 5% 1/10W | |
| R79 | 1-216-033-00 | METAL GLAZE 220 5% 1/10W | |
| R80 | 1-216-049-00 | METAL GLAZE 1K 5% 1/10W | |
| R81 | 1-216-081-00 | METAL GLAZE 22K 5% 1/10W | |
| R82 | 1-216-065-00 | METAL GLAZE 4.7K 5% 1/10W | |
| R83 | 1-216-073-00 | METAL GLAZE 10K 5% 1/10W | |
| R84 | 1-216-081-00 | METAL GLAZE 22K 5% 1/10W | |
| R85 | 1-216-073-00 | METAL GLAZE 10K 5% 1/10W | |
| R86 | 1-216-077-00 | METAL GLAZE 15K 5% 1/10W | |
| R87 | 1-216-081-00 | METAL GLAZE 22K 5% 1/10W | |
| R88 | 1-216-025-00 | METAL GLAZE 100 5% 1/10W | |
| R89 | 1-216-025-00 | METAL GLAZE 100 5% 1/10W | |
| R91 | 1-216-025-00 | METAL GLAZE 100 5% 1/10W | |
| R92 | 1-216-025-00 | METAL GLAZE 100 5% 1/10W | |

| REF.NO. | PART NO. | DESCRIPTION | REMARK |
|---|---|---|---|
| R93 | 1-216-033-00 | METAL GLAZE 220 5% 1/10W | |
| R94 | 1-216-033-00 | METAL GLAZE 220 5% 1/10W | |
| R95 | 1-216-033-00 | METAL GLAZE 220 5% 1/10W | |
| R99 | 1-216-295-00 | CONDUCTOR, CHIP | (KV-32WF1A/32WF1B) |
| | 1-216-065-00 | METAL GLAZE 4.7K 5% 1/10W | (KV-32WF1D/32WF1E/32WF1K/32WF1U) |
| R101 | 1-216-061-00 | METAL GLAZE 3.3K 5% 1/10W | |
| R102 | 1-216-025-00 | METAL GLAZE 100 5% 1/10W | |
| R103 | 1-216-025-00 | METAL GLAZE 100 5% 1/10W | |
| R104 | 1-216-073-00 | METAL GLAZE 10K 5% 1/10W | |
| R105 | 1-216-113-00 | METAL GLAZE 470K 5% 1/10W | |
| R106 | 1-216-073-00 | METAL GLAZE 10K 5% 1/10W | |
| R107 | 1-216-295-00 | CONDUCTOR, CHIP | |
| R110 | 1-216-073-00 | METAL GLAZE 10K 5% 1/10W | |
| R111 | 1-216-029-00 | METAL GLAZE 150 5% 1/10W | |
| R112 | 1-216-029-00 | METAL GLAZE 150 5% 1/10W | |
| R113 | 1-216-001-00 | METAL GLAZE 10 5% 1/10W | |
| R114 | 1-216-029-00 | METAL GLAZE 150 5% 1/10W | |
| R115 | 1-216-037-00 | METAL GLAZE 330 5% 1/10W | |
| R119 | 1-216-295-00 | CONDUCTOR, CHIP | |
| R120 | 1-216-069-00 | METAL GLAZE 6.8K 5% 1/10W | |
| R121 | 1-216-073-00 | METAL GLAZE 10K 5% 1/10W | |
| R122 | 1-216-041-00 | METAL GLAZE 470 5% 1/10W | |
| R123 | 1-216-031-00 | METAL GLAZE 180 5% 1/10W | |
| R124 | 1-216-049-00 | METAL GLAZE 1K 5% 1/10W | |
| R125 | 1-216-081-00 | METAL GLAZE 22K 5% 1/10W | |
| R126 | 1-216-025-00 | METAL GLAZE 100 5% 1/10W | |
| R127 | 1-216-081-00 | METAL GLAZE 22K 5% 1/10W | |
| R128 | 1-216-035-00 | METAL GLAZE 270 5% 1/10W | |
| R129 | 1-216-037-00 | METAL GLAZE 330 5% 1/10W | |
| R130 | 1-216-061-00 | METAL GLAZE 3.3K 5% 1/10W | |
| R131 | 1-216-073-00 | METAL GLAZE 10K 5% 1/10W | |
| R132 | 1-216-025-00 | METAL GLAZE 100 5% 1/10W | |
| R133 | 1-216-041-00 | METAL GLAZE 470 5% 1/10W | |
| R134 | 1-216-001-00 | METAL GLAZE 10 5% 1/10W | |
| R135 | 1-216-037-00 | METAL GLAZE 330 5% 1/10W | (KV-32WF1A/32WF1B/32WF1D/32WF1E) |
| | 1-216-045-00 | METAL GLAZE 680 5% 1/10W | (KV-32WF1K/32WF1U) |
| R136 | 1-216-033-00 | METAL GLAZE 220 5% 1/10W | |
| R137 | 1-216-049-00 | METAL GLAZE 1K 5% 1/10W | |
| R138 | 1-216-041-00 | METAL GLAZE 470 5% 1/10W | |
| R200 | 1-216-049-00 | METAL GLAZE 1K 5% 1/10W | |
| R201 | 1-216-033-00 | METAL GLAZE 220 5% 1/10W | |
| R202 | 1-216-033-00 | METAL GLAZE 220 5% 1/10W | |
| R203 | 1-216-025-00 | METAL GLAZE 100 5% 1/10W | |
| R204 | 1-216-025-00 | METAL GLAZE 100 5% 1/10W | |
| R205 | 1-216-083-00 | METAL GLAZE 27K 5% 1/10W | |
| R206 | 1-216-033-00 | METAL GLAZE 220 5% 1/10W | |
| R208 | 1-216-041-00 | METAL GLAZE 470 5% 1/10W | |
| R209 | 1-216-049-00 | METAL GLAZE 1K 5% 1/10W | |
| R210 | 1-216-017-91 | METAL GLAZE 47 5% 1/10W | |
| R211 | 1-216-033-00 | METAL GLAZE 220 5% 1/10W | |
| R212 | 1-216-022-00 | METAL GLAZE 75 5% 1/10W | |
| R213 | 1-216-022-00 | METAL GLAZE 75 5% 1/10W | |
| R214 | 1-216-025-00 | METAL GLAZE 100 5% 1/10W | |
| R216 | 1-216-025-00 | METAL GLAZE 100 5% 1/10W | |
| R217 | 1-216-113-00 | METAL GLAZE 470K 5% 1/10W | |
| R218 | 1-216-025-00 | METAL GLAZE 100 5% 1/10W | |
| R219 | 1-216-113-00 | METAL GLAZE 470K 5% 1/10W | |

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| REF.NO. | PART NO. | DESCRIPTION | | | REMARK |
|---|---|---|---|---|---|
| R220 | 1-216-295-00 | CONDUCTOR, CHIP | | | |
| R221 | 1-216-039-00 | METAL GLAZE | 390 | 5% | 1/10W |
| R222 | 1-216-089-00 | METAL GLAZE | 47K | 5% | 1/10W |
| R223 | 1-216-295-00 | CONDUCTOR, CHIP | | | |
| R224 | 1-216-039-00 | METAL GLAZE | 390 | 5% | 1/10W |
| R225 | 1-216-089-00 | METAL GLAZE | 47K | 5% | 1/10W |
| R226 | 1-216-033-00 | METAL GLAZE | 220 | 5% | 1/10W |
| R227 | 1-216-022-00 | METAL GLAZE | 75 | 5% | 1/10W |
| R228 | 1-216-022-00 | METAL GLAZE | 75 | 5% | 1/10W |
| R229 | 1-216-033-00 | METAL GLAZE | 220 | 5% | 1/10W |
| R230 | 1-216-022-00 | METAL GLAZE | 75 | 5% | 1/10W |
| R232 | 1-216-025-00 | METAL GLAZE | 100 | 5% | 1/10W |
| R233 | 1-216-025-00 | METAL GLAZE | 100 | 5% | 1/10W |
| R234 | 1-216-113-00 | METAL GLAZE | 470K | 5% | 1/10W |
| R235 | 1-216-025-00 | METAL GLAZE | 100 | 5% | 1/10W |
| R236 | 1-216-113-00 | METAL GLAZE | 470K | 5% | 1/10W |
| R237 | 1-216-295-00 | CONDUCTOR, CHIP | | | |
| R238 | 1-216-089-00 | METAL GLAZE | 47K | 5% | 1/10W |
| R239 | 1-216-039-00 | METAL GLAZE | 390 | 5% | 1/10W |
| R240 | 1-216-295-00 | CONDUCTOR, CHIP | | | |
| R241 | 1-216-089-00 | METAL GLAZE | 47K | 5% | 1/10W |
| R242 | 1-216-039-00 | METAL GLAZE | 390 | 5% | 1/10W |
| R243 | 1-216-033-00 | METAL GLAZE | 220 | 5% | 1/10W |
| R244 | 1-216-033-00 | METAL GLAZE | 220 | 5% | 1/10W |
| R245 | 1-216-073-00 | METAL GLAZE | 10K | 5% | 1/10W |
| R246 | 1-216-053-00 | METAL GLAZE | 1.5K | 5% | 1/10W |
| R247 | 1-216-053-00 | METAL GLAZE | 1.5K | 5% | 1/10W |
| R249 | 1-216-001-00 | METAL GLAZE | 10 | 5% | 1/10W |
| R255 | 1-216-025-00 | METAL GLAZE | 100 | 5% | 1/10W |
| R256 | 1-216-025-00 | METAL GLAZE | 100 | 5% | 1/10W |
| R260 | 1-216-198-91 | METAL GLAZE | 1K | 5% | 1/8W |
| R261 | 1-216-073-00 | METAL GLAZE | 10K | 5% | 1/10W |
| R262 | 1-216-061-00 | METAL GLAZE | 3.3K | 5% | 1/10W |
| R263 | 1-216-065-00 | METAL GLAZE | 4.7K | 5% | 1/10W |
| R265 | 1-216-065-00 | METAL GLAZE | 4.7K | 5% | 1/10W |
| R270 | 1-216-022-00 | METAL GLAZE | 75 | 5% | 1/10W |
| R271 | 1-216-022-00 | METAL GLAZE | 75 | 5% | 1/10W |
| R272 | 1-216-022-00 | METAL GLAZE | 75 | 5% | 1/10W |
| R273 | 1-216-022-00 | METAL GLAZE | 75 | 5% | 1/10W |
| R280 | 1-216-049-00 | METAL GLAZE | 1K | 5% | 1/10W |
| R281 | 1-216-089-00 | METAL GLAZE | 47K | 5% | 1/10W |
| R282 | 1-216-093-00 | METAL GLAZE | 68K | 5% | 1/10W |
| R283 | 1-216-073-00 | METAL GLAZE | 10K | 5% | 1/10W |
| R284 | 1-216-089-00 | METAL GLAZE | 47K | 5% | 1/10W |
| R285 | 1-216-093-00 | METAL GLAZE | 68K | 5% | 1/10W |
| R286 | 1-216-073-00 | METAL GLAZE | 10K | 5% | 1/10W |
| R287 | 1-216-093-00 | METAL GLAZE | 68K | 5% | 1/10W |
| R288 | 1-216-093-00 | METAL GLAZE | 68K | 5% | 1/10W |
| R289 | 1-216-689-11 | METAL GLAZE | 39K | 5% | 1/10W |
| R290 | 1-216-689-11 | METAL GLAZE | 39K | 5% | 1/10W |
| R291 | 1-216-025-71 | METAL GLAZE | 100 | 5% | 1/10W |
| R292 | 1-216-025-71 | METAL GLAZE | 100 | 5% | 1/10W |
| R293 | 1-216-025-71 | METAL GLAZE | 100 | 5% | 1/10W |
| R294 | 1-216-025-71 | METAL GLAZE | 100 | 5% | 1/10W |
| R295 | 1-216-025-71 | METAL GLAZE | 100 | 5% | 1/10W |
| R296 | 1-216-025-71 | METAL GLAZE | 100 | 5% | 1/10W |
| R300 | 1-216-025-00 | METAL GLAZE | 100 | 5% | 1/10W |
| R301 | 1-216-033-00 | METAL GLAZE | 220 | 5% | 1/10W |
| R302 | 1-216-295-00 | CONDUCTOR, CHIP | | | |
| R303 | 1-216-295-00 | CONDUCTOR, CHIP | | | |
| R308 | 1-216-025-00 | METAL GLAZE | 100 | 5% | 1/10W |
| R309 | 1-216-033-00 | METAL GLAZE | 220 | 5% | 1/10W |
| R310 | 1-216-033-00 | METAL GLAZE | 220 | 5% | 1/10W |
| R311 | 1-216-295-00 | CONDUCTOR, CHIP | | | |
| R312 | 1-216-295-00 | CONDUCTOR, CHIP | | | |
| R314 | 1-216-295-00 | CONDUCTOR, CHIP | | | |
| R315 | 1-216-295-00 | CONDUCTOR, CHIP | | | |
| R316 | 1-216-033-00 | METAL GLAZE | 220 | 5% | 1/10W |
| R318 | 1-216-689-11 | METAL GLAZE | 39K | 5% | 1/10W |
| R319 | 1-216-081-00 | METAL GLAZE | 22K | 5% | 1/10W |
| R320 | 1-216-025-00 | METAL GLAZE | 100 | 5% | 1/10W |
| R321 | 1-216-025-00 | METAL GLAZE | 100 | 5% | 1/10W |
| R322 | 1-216-025-00 | METAL GLAZE | 100 | 5% | 1/10W |
| R323 | 1-216-033-00 | METAL GLAZE | 220 | 5% | 1/10W |
| R324 | 1-216-063-91 | METAL GLAZE | 3.9K | 5% | 1/10W |
| R326 | 1-216-025-00 | METAL GLAZE | 100 | 5% | 1/10W |
| R327 | 1-216-025-00 | METAL GLAZE | 100 | 5% | 1/10W |
| R328 | 1-216-129-00 | METAL GLAZE | 2.2M | 5% | 1/10W |
| R329 | 1-216-089-00 | METAL GLAZE | 47K | 5% | 1/10W |
| R330 | 1-216-025-00 | METAL GLAZE | 100 | 5% | 1/10W |
| R331 | 1-216-059-00 | METAL GLAZE | 2.7K | 5% | 1/10W |
| R332 | 1-216-025-00 | METAL GLAZE | 100 | 5% | 1/10W |
| R333 | 1-216-075-00 | METAL GLAZE | 12K | 5% | 1/10W |
| R334 | 1-216-041-00 | METAL GLAZE | 470 | 5% | 1/10W |
| R335 | 1-216-675-11 | METAL CHIP | 10K | 0.50% | 1/10W |
| R336 | 1-216-109-00 | METAL GLAZE | 330K | 5% | 1/10W |
| R337 | 1-216-025-00 | METAL GLAZE | 100 | 5% | 1/10W |
| R338 | 1-216-051-00 | METAL GLAZE | 1.2K | 5% | 1/10W |
| R339 | 1-216-049-00 | METAL GLAZE | 1K | 5% | 1/10W |
| R340 | 1-216-025-00 | METAL GLAZE | 100 | 5% | 1/10W |
| R341 | 1-216-025-00 | METAL GLAZE | 100 | 5% | 1/10W |
| R342 | 1-216-049-00 | METAL GLAZE | 1K | 5% | 1/10W |
| R343 | 1-216-061-00 | METAL GLAZE | 3.3K | 5% | 1/10W |
| R344 | 1-216-067-00 | METAL GLAZE | 5.6K | 5% | 1/10W |
| R345 | 1-216-025-00 | METAL GLAZE | 100 | 5% | 1/10W |
| R346 | 1-216-063-91 | METAL GLAZE | 3.9K | 5% | 1/10W |
| R347 | 1-216-025-00 | METAL GLAZE | 100 | 5% | 1/10W |
| R348 | 1-216-025-00 | METAL GLAZE | 100 | 5% | 1/10W |
| R349 | 1-216-025-00 | METAL GLAZE | 100 | 5% | 1/10W |
| R350 | 1-216-042-00 | METAL GLAZE | 510 | 5% | 1/10W |
| R351 | 1-216-053-00 | METAL GLAZE | 1.5K | 5% | 1/10W |
| R352 | 1-216-077-00 | METAL GLAZE | 15K | 5% | 1/10W |
| R353 | 1-216-033-00 | METAL GLAZE | 220 | 5% | 1/10W |
| R354 | 1-216-295-00 | CONDUCTOR, CHIP | | | |
| R357 | 1-216-049-00 | METAL GLAZE | 1K | 5% | 1/10W |
| R358 | 1-216-295-00 | CONDUCTOR, CHIP | | | |
| R359 | 1-216-097-00 | METAL GLAZE | 100K | 5% | 1/10W |
| R370 | 1-216-295-00 | CONDUCTOR, CHIP | | | |
| R1001 | 1-216-025-00 | METAL GLAZE | 100K | 5% | 1/10W (KV-32WF1D) |
| R1002 | 1-216-025-00 | METAL GLAZE | 100K | 5% | 1/10W (KV-32WF1D) |

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|---|---|---|
| TU101 | 1-693-338-11 | TUNER/VIF (AEP) (KV-32WF1A/32WF1D/32WF1E/32WF1K) |
| | 1-693-340-11 | TUNER/VIF (FR) (KV-32WF1B) |
| | 1-693-339-11 | TUNER/VIF (UK) (KV-32WF1B) |

# A IF (KV-32WF1A/32WF1D/32WF1E/32WF1K/32WF1U) IF (KV-32WF1B)

| REF.NO. | PART NO. | DESCRIPTION | | | REMARK |
|---|---|---|---|---|---|
| | | < CRYSTAL > | | | |
| X1 | 1-767-120-21 | VIBRATOR, CERAMIC | | | |
| X201 | 1-760-628-11 | VIBRATOR, CRYSTAL | | | |
| X301 | 1-567-504-11 | OSCILLATOR, CRYSTAL | | | |
| X302 | 1-567-505-11 | OSCILLATOR, CRYSTAL | | | |
| X303 | 1-767-127-11 | VIBRATOR, CERAMIC | | | |
| ********** | | | | | |
| | A-1652-037-A | IF BOARD, COMPLETE (KV-32WF1A/32WF1D/32WF1E/32WF1K) | | | |
| | | ********** | | | |
| | A-1652-038-A | IF BOARD, COMPLETE (KV-32WF1U) | | | |
| | | ********** | | | |
| | | < CAPACITOR > | | | |
| C01 | 1-164-337-11 | CERAMIC CHIP 2.2MF | | | 16V |
| C02 | 1-164-337-11 | CERAMIC CHIP 2.2MF | | | 16V |
| C03 | 1-104-957-11 | ELECT 47MF | | 20% | 16V |
| C04 | 1-135-259-11 | TANTAL. CHIP 10MF | | 20% | 6.3V |
| C05 | 1-164-004-11 | CERAMIC CHIP 0.1MF | | 10% | 25V |
| C06 | 1-164-005-11 | CERAMIC CHIP 0.47MF | | | 16V |
| C08 | 1-164-232-11 | CERAMIC CHIP 0.01MF | | 10% | 50V |
| C09 | 1-164-004-11 | CERAMIC CHIP 0.1MF | | 10% | 25V |
| C10 | 1-164-004-11 | CERAMIC CHIP 0.1MF | | 10% | 25V |
| C11 | 1-164-004-11 | CERAMIC CHIP 0.1MF | | 10% | 25V |
| C15 | 1-124-282-00 | ELECT 22MF | | 20% | 25V |
| C16 | 1-162-638-11 | CERAMIC CHIP 1MF | | | 16V |
| C18 | 1-164-337-11 | CERAMIC CHIP 2.2MF | | | 16V |
| C19 | 1-124-937-11 | ELECT 10MF | | 20% | 16V |
| | | < FILTER > | | | |
| CF01 | 1-404-134-00 | TRAP, CERAMIC (5.5MHZ) (KV-32WF1A/32WF1D/32WF1E/32WF1K/32WF1R) | | | |
| | 1-409-333-21 | TRAP, CERAMIC (6.0MHZ) (KV-32WF1U) | | | |
| SWF04 | 1-767-084-11 | FILTER, SURFACE WAVE | | | |
| | | < IC > | | | |
| IC01 | 8-759-385-26 | IC TDA4472-CFLG3 | | | |
| | | < COIL > | | | |
| L02 | 1-408-408-00 | INDUCTOR 8.2UH | | | |
| L04 | 1-408-419-00 | INDUCTOR 68UH | | | |
| L08 | 1-410-992-11 | INDUCTOR CHIP 0.82UH | | | |
| | | < VARIABLE COIL > | | | |
| LV01 | 1-411-874-11 | COIL | | | |
| | | < TRANSISTOR > | | | |
| Q01 | 8-729-216-22 | TRANSISTOR 2SA1162-G | | | |
| | | < RESISTOR > | | | |
| JR01 | 1-216-296-91 | METAL GLAZE | 0 | 5% | 1/8W |
| JR02 | 1-216-296-91 | METAL GLAZE | 0 | 5% | 1/8W |
| JR03 | 1-216-295-00 | METAL GLAZE | 0 | 5% | 1/10W |
| JR04 | 1-216-296-91 | METAL GLAZE | 0 | 5% | 1/8W |
| JR05 | 1-216-295-00 | METAL GLAZE | 0 | 5% | 1/10W |
| JR07 | 1-216-295-00 | METAL GLAZE | 0 | 5% | 1/10W |
| R01 | 1-216-029-00 | METAL GLAZE | 150 | 5% | 1/10W |
| R02 | 1-216-089-91 | METAL GLAZE | 47K | 5% | 1/10W |
| R03 | 1-216-089-91 | METAL GLAZE | 47K | 5% | 1/10W |
| R04 | 1-216-057-00 | METAL GLAZE | 2.2K | 5% | 1/10W |
| R05 | 1-216-081-00 | METAL GLAZE | 22K | 5% | 1/10W |
| R06 | 1-216-057-00 | METAL GLAZE | 2.2K | 5% | 1/10W |
| R07 | 1-216-025-91 | METAL GLAZE | 100 | 5% | 1/10W |
| R08 | 1-216-174-00 | METAL GLAZE | 100 | 5% | 1/8W |
| R09 | 1-216-045-00 | METAL GLAZE | 680 | 5% | 1/10W (KV-32WF1A/32WF1D/32WF1E/32WX1K/32WF1R) |
| | 1-216-049-91 | METAL GLAZE | 1K | 5% | 1/10W (KV-32WF1U) |
| R10 | 1-216-041-00 | METAL GLAZE | 470 | 5% | 1/10W |
| R11 | 1-216-051-00 | METAL GLAZE | 1.2K | 5% | 1/10W |
| R23 | 1-216-049-91 | METAL GLAZE | 1K | 5% | 1/10W |
| R24 | 1-216-295-91 | METAL GLAZE | 0 | 5% | 1/10W |
| R25 | 1-216-057-00 | METAL GLAZE | 2.2K | 5% | 1/10W |
| R021 | 1-216-174-00 | METAL GLAZE | 100 | 5% | 1/8W |
| | | < VARIABLE RESISTOR > | | | |
| RV01 | 1-226-703-11 | RES, ADJ, METAL GLAZE 10K | | | |
| ********** | | | | | |
| | A-1652-036-A | IF BOARD, COMPLETE (KV-32WF1B) | | | |
| | | ********** | | | |
| | | < CAPACITOR > | | | |
| C01 | 1-162-638-11 | CERAMIC CHIP 1MF | | | 16V |
| C02 | 1-164-337-11 | CERAMIC CHIP 2.2MF | | | 16V |
| C03 | 1-104-957-11 | ELECT 47MF | | 20% | 16V |
| C04 | 1-135-259-11 | TANTAL. CHIP 10MF | | 20% | 6.3V |
| C05 | 1-164-004-11 | CERAMIC CHIP 0.1MF | | 10% | 25V |
| C06 | 1-164-005-11 | CERAMIC CHIP 0.47MF | | | 16V |
| C08 | 1-164-232-11 | CERAMIC CHIP 0.01MF | | 10% | 50V |
| C09 | 1-164-004-11 | CERAMIC CHIP 0.1MF | | 10% | 25V |
| C10 | 1-164-004-11 | CERAMIC CHIP 0.1MF | | 10% | 25V |
| C11 | 1-164-004-11 | CERAMIC CHIP 0.1MF | | 10% | 25V |
| C12 | 1-164-232-11 | CERAMIC CHIP 0.01MF | | 10% | 50V |
| C13 | 1-164-232-11 | CERAMIC CHIP 0.01MF | | 10% | 50V |
| C14 | 1-164-232-11 | CERAMIC CHIP 0.01MF | | 10% | 50V |
| C15 | 1-104-957-11 | ELECT 47MF | | 20% | 16V |
| C16 | 1-162-638-11 | CERAMIC CHIP 1MF | | | 16V |
| C17 | 1-163-243-11 | CERAMIC CHIP 47PF | | 5% | 50V |
| C18 | 1-164-337-11 | CERAMIC CHIP 2.2MF | | | 16V |
| C20 | 1-124-937-11 | ELECT 10MF | | 20% | 16V |
| C21 | 1-164-506-11 | CERAMIC CHIP 4.7MF | | | 16V |
| | | < FILTER > | | | |
| CF01 | 1-409-430-11 | TRAP, CERAMIC | | | |
| SWF01 | 1-579-273-11 | FILTER, SURFACE WAVE | | | |
| SWF02 | 1-760-329-11 | FILTER, SURFACE WAVE | | | |
| SWF03 | 1-767-083-11 | FILTER, SURFACE WAVE | | | |
| | | < TRIMMER > | | | |
| CT01 | 1-760-662-11 | TRAP, CERAMIC | | | |
| | | < IC > | | | |
| IC01 | 8-759-069-36 | IC MC74HC4046AF | | | |
| | | < COIL > | | | |
| L02 | 1-408-406-00 | INDUCTOR 5.6UH | | | |
| L04 | 1-408-419-00 | INDUCTOR 68UH | | | |

The components identified by shading and marked ⚠ are critical for safety.
Replace only with the part number specified.

Les composants identifies par une trame et une marque ⚠ sont critiques pour la securite.
Ne les remplacer que par une piece portant le numero specifie.

IF (KV-32WF1B) C

| REF.NO. | PART NO. | DESCRIPTION | REMARK |
|---|---|---|---|
| L05 | 1-410-987-11 | INDUCTOR CHIP 0.33UH | |
| L06 | 1-408-399-00 | INDUCTOR 1.5UH | |
| | | < VARIABLE COIL > | |
| LV01 | 1-411-874-11 | COIL | |
| | | < TRANSISTOR > | |
| Q01 | 8-729-216-22 | TRANSISTOR 2SA1162-G | |
| Q02 | 8-729-035-11 | TRANSISTOR BF799-GEG | |
| Q03 | 8-729-035-11 | TRANSISTOR BF799-GEG | |
| Q04 | 8-729-901-01 | TRANSISTOR DTC144EK | |
| | | < RESISTOR > | |
| JR01 | 1-216-296-91 | METAL GLAZE 0 5% 1/8W | |
| JR02 | 1-216-296-91 | METAL GLAZE 0 5% 1/8W | |
| JR03 | 1-216-295-00 | METAL GLAZE 0 5% 1/10W | |
| JR04 | 1-216-296-91 | METAL GLAZE 0 5% 1/8W | |
| JR05 | 1-216-295-00 | METAL GLAZE 0 5% 1/10W | |
| JR07 | 1-216-295-00 | METAL GLAZE 0 5% 1/10W | |
| R01 | 1-216-029-00 | METAL GLAZE 150 5% 1/10W | |
| R02 | 1-216-089-91 | METAL GLAZE 47K 5% 1/10W | |
| R03 | 1-216-089-91 | METAL GLAZE 47K 5% 1/10W | |
| R04 | 1-216-057-00 | METAL GLAZE 2.2K 5% 1/10W | |
| R05 | 1-216-081-00 | METAL GLAZE 22K 5% 1/10W | |
| R06 | 1-216-057-00 | METAL GLAZE 2.2K 5% 1/10W | |
| R07 | 1-216-025-91 | METAL GLAZE 100 5% 1/10W | |
| R08 | 1-216-174-00 | METAL GLAZE 100 5% 1/8W | |
| R09 | 1-216-045-00 | METAL GLAZE 680 5% 1/10W | |
| R10 | 1-216-041-00 | METAL GLAZE 470 5% 1/10W | |
| R11 | 1-216-051-00 | METAL GLAZE 1.2K 5% 1/10W | |
| R12 | 1-216-063-91 | METAL GLAZE 3.9K 5% 1/10W | |
| R13 | 1-216-061-00 | METAL GLAZE 3.3K 5% 1/10W | |
| R14 | 1-216-023-00 | METAL GLAZE 82 5% 1/10W | |
| R15 | 1-216-017-91 | METAL GLAZE 47 5% 1/10W | |
| R16 | 1-216-033-00 | METAL GLAZE 220 5% 1/10W | |
| R17 | 1-216-017-91 | METAL GLAZE 47 5% 1/10W | |
| R18 | 1-216-013-00 | METAL GLAZE 33 5% 1/10W | |
| R20 | 1-216-222-00 | METAL GLAZE 10K 5% 1/8W | |
| R23 | 1-216-049-91 | METAL GLAZE 1K 5% 1/10W | |
| R25 | 1-216-057-00 | METAL GLAZE 2.2K 5% 1/10W | |
| R21 | 1-216-174-00 | METAL GLAZE 100 5% 1/8W | |
| | | < VARIABLE RESISTOR > | |
| RV01 | 1-226-703-11 | RES, ADJ, METAL GLAZE 10K | |
| RV02 | 1-226-703-11 | RES, ADJ, METAL GLAZE 10K | |
| ********** | | | |
| | *A-1638-078-A | C BOARD, COMPLETE | |
| | | ********** | |
| | | < CAPACITOR > | |
| C702 | 1-102-115-00 | CERAMIC 560PF 10% 50V | |
| C703 | 1-102-116-00 | CERAMIC 680PF 10% 50V | |
| C708 | 1-162-114-00 | CERAMIC 0.0047MF 2KV | |
| C710 | 1-107-652-11 | ELECT 10MF 20% 250V | |
| C712 | 1-102-116-00 | CERAMIC 680PF 10% 50V | |
| C714 | 1-126-967-11 | ELECT 47MF 20% 16V | |
| C717 | 1-102-114-00 | CERAMIC 470PF 10% 50V | |
| C718 | 1-102-114-00 | CERAMIC 470PF 10% 50V | |
| C719 | 1-102-114-00 | CERAMIC 470PF 10% 50V | |
| C722 | 1-101-880-00 | CERAMIC 47PF 5% 50V | |
| C723 | 1-101-880-00 | CERAMIC 47PF 5% 50V | |
| C724 | 1-101-880-00 | CERAMIC 47PF 5% 50V | |
| | | < CONNECTOR > | |
| CN701 | 1-778-037-11 | PIN, CONNECTOR 6P | |
| CN702 | 1-695-915-11 | TAB (CONTACT) | |
| CN703 | *1-568-882-51 | PIN, CONNECTOR 7P | |
| | | < DIODE > | |
| D701 | 8-719-109-72 | DIODE RD3.9ES-B2 | |
| D702 | 8-719-991-33 | DIODE 1SS133T-77 | |
| D703 | 1-535-465-11 | LEAD, JUMPER (5.0MM) | |
| D704 | 1-535-465-11 | LEAD, JUMPER (5.0MM) | |
| D705 | 1-535-465-11 | LEAD, JUMPER (5.0MM) | |
| D706 | 8-719-991-33 | DIODE 1SS133T-77 | |
| D707 | 8-719-991-33 | DIODE 1SS133T-77 | |
| D708 | 8-719-991-33 | DIODE 1SS133T-77 | |
| D709 | 8-719-991-33 | DIODE 1SS133T-77 | |
| D710 | 8-719-991-33 | DIODE 1SS133T-77 | |
| D711 | 8-719-302-43 | DIODE EL1Z | |
| D713 | 1-535-465-11 | LEAD, JUMPER (5.0MM) | |
| D714 | 8-719-991-33 | DIODE 1SS133T-77 | |
| D715 | 8-719-991-33 | DIODE 1SS133T-77 | |
| D716 | 8-719-991-33 | DIODE 1SS133T-77 | |
| D717 | 8-719-991-33 | DIODE 1SS133T-77 | |
| D718 | 8-719-991-33 | DIODE 1SS133T-77 | |
| D719 | 8-719-991-33 | DIODE 1SS133T-77 | |
| D720 | 8-719-991-33 | DIODE 1SS133T-77 | |
| | | < CRT SOCKET > | |
| J701 ⚠ | 1-526-990-21 | SOCKET, CRT | |
| | | < COIL > | |
| L704 | 1-408-609-41 | INDUCTOR 33UH | |
| | | < TRANSISTOR > | |
| Q702 | 8-729-119-78 | TRANSISTOR 23C2785-HFE | |
| Q703 | 8-729-906-70 | TRANSISTOR BF871-127 | |
| Q704 | 8-729-200-17 | TRANSISTOR BF421L-AMMO | |
| Q705 | 8-729-119-78 | TRANSISTOR 2SC2785-HFE | |
| Q706 | 8-729-906-70 | TRANSISTOR BF871-127 | |
| Q707 | 8-729-200-17 | TRANSISTOR BF421L-AMMO | |
| Q708 | 8-729-119-78 | TRANSISTOR 2SC2785-HFE | |
| Q709 | 8-729-906-70 | TRANSISTOR BF871-127 | |
| Q710 | 8-729-200-17 | TRANSISTOR BF421L-AMMO | |
| Q711 | 8-729-026-41 | TRANSISTOR 2SA933AS-QRT | |
| | | < RESISTOR > | |
| R704 | 1-216-486-00 | METAL OXIDE 8.2K 5% 3W F | |
| R705 | 1-260-103-11 | CARBON 2.2K 5% 1/2W | |
| R706 | 1-247-815-91 | CARBON 220 5% 1/4W | |
| R707 | 1-249-408-11 | CARBON 180 5% 1/4W | |
| R708 | 1-535-143-11 | LEAD, JUMPER 10MM) | |
| R709 | 1-202-844-00 | SOLID 330K 10% 1/2W | |
| R711 | 1-247-843-11 | CARBON 3.3K 5% 1/4W | |
| R712 | 1-260-103-11 | CARBON 2.2K 5% 1/2W | |
| R714 | 1-216-486-00 | METAL OXIDE 8.2K 5% 3W F | |
| R715 | 1-249-417-11 | CARBON 1K 5% 1/4W | |
| R716 | 1-247-815-91 | CARBON 220 5% 1/4W | |

# C D4

| REF.NO. | PART NO. | DESCRIPTION | | | REMARK |
|---|---|---|---|---|---|
| R717 | 1-249-408-11 | CARBON | 180 | 5% | 1/4W |
| R718 | 1-202-814-11 | SOLID | 33K | 10% | 1/2W |
| R719 | 1-535-143-11 | LEAD, JUMPER (10MM) | | | |
| R720 | 1-247-843-11 | CARBON | 3.3K | 5% | 1/4W |
| R722 | 1-202-848-00 | SOLID | 680K | 10% | 1/2W |
| R723 | 1-249-417-11 | CARBON | 1K | 5% | 1/4W |
| R724 | 1-202-846-00 | SOLID | 470K | 10% | 1/2W |
| R726 | 1-260-103-11 | CARBON | 2.2K | 5% | 1/2W |
| R727 | 1-247-815-91 | CARBON | 220 | 5% | 1/4W |
| R728 | 1-216-350-11 | METAL OXIDE | 1.2 | 5% | 1W F |
| R729 | 1-249-408-11 | CARBON | 180 | 5% | 1/4W |
| R730 | 1-535-143-11 | LEAD JUMPER (10MM) | | | |
| R731 | 1-247-843-11 | CARBON | 3.3K | 5% | 1/4W |
| R733 | 1-249-420-11 | CARBON | 1.8K | 5% | 1/4W |
| R734 | 1-247-807-31 | CARBON | 100 | 5% | 1/4W |
| R735 | 1-249-420-11 | CARBON | 1.8K | 5% | 1/4W |
| R736 | 1-216-486-00 | METAL OXIDE | 8.2K | 5% | 3W F |
| R739 | 1-249-417-11 | CARBON | 1K | 5% | 1/4W |
| R740 | 1-249-420-11 | CARBON | 1.8K | 5% | 1/4W |
| R741 | 1-202-549-00 | SOLID | 100 | 20% | 1/2W |
| R744 | 1-249-421-11 | CARBON | 2.2K | 5% | 1/4W |
| R745 | 1-249-421-11 | CARBON | 2.2K | 5% | 1/4W |
| R746 | 1-249-421-11 | CARBON | 2.2K | 5% | 1/4W |
| R747 | 1-249-437-11 | CARBON | 47K | 5% | 1/4W |
| R748 | 1-249-417-11 | CARBON | 1K | 5% | 1/4W |
| R749 | 1-249-435-11 | CARBON | 33K | 5% | 1/4W |

< VARIABLE RESISTOR >

| | | |
|---|---|---|
| RV701 | 1-230-641-11 | RES, ADJ, METAL GLAZE 2.2M |
| RV702 | 1-241-656-21 | RES, ADJ, METAL FILM 110M |

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*A-1640-284-A D4 BOARD, COMPLETE
**********

< CAPACITOR >

| | | | | | |
|---|---|---|---|---|---|
| C2802 | 1-128-551-11 | ELECT | 22MF | 20% | 25V |
| C2804 | 1-136-165-00 | FILM | 0.1MF | 5% | 50V |
| C2805 | 1-102-852-91 | CERAMIC | 47PF | 5% | 50V |
| C2806 | 1-136-250-11 | FILM | 0.001MF | 2% | 100V |
| C2807 | 1-136-161-00 | FILM | 0.047MF | 5% | 50V |
| C2808 | 1-136-153-00 | FILM | 0.01MF | 5% | 50V |
| C2809 | 1-136-153-00 | FILM | 0.01MF | 5% | 50V |
| C2810 | 1-136-153-00 | FILM | 0.01MF | 5% | 50V |
| C2811 | 1-110-191-71 | MYLAR | 0.012MF | 5% | 400V |
| C2812 | 1-137-205-11 | FILM | 0.1MF | 5% | 400V |
| C2813 | 1-110-329-71 | MYLAR | 0.47MF | % | 100V |
| C2814 | 1-137-536-11 | FILM | 0.0022MF | 5% | 630V |
| C2815 | 1-136-205-11 | FILM | 0.022MF | 10% | 400V |
| C2816 | 1-136-759-11 | FILM | 0.039MF | 5% | 630V |
| C2817 | 1-126-933-11 | ELECT | 100MF | 20% | 16V |
| C2818 | 1-104-665-11 | ELECT | 100MF | 20% | 25V |
| C2819 | 1-126-933-11 | ELECT | 100MF | 20% | 16V |
| C2820 | 1-126-948-11 | ELECT | 100MF | 20% | 35V |

< CONNECTOR >

| | | |
|---|---|---|
| CN2801 | 1-568-878-51 | PIN, CONNECTOR 3P |
| CN2802 | *1-580-798-11 | CONNECTOR PIN (DY) 6P |
| CN2803 | *1-580-798-11 | CONNECTOR PIN (DY) 6P |
| CN2804 | *1-568-879-11 | PIN, CONNECTOR 4P |
| CN2805 | 1-568-878-51 | PIN, CONNECTOR 3P |
| CN2806 | *1-508-784-00 | PIN, CONNECTOR (5MM PITCH) 1P |
| CN2807 | *1-568-878-51 | PIN, CONNECTOR 3P |

< DIODE >

| | | |
|---|---|---|
| D2801 | 8-719-991-33 | DIODE 1SS133T-77 |
| D2802 | 8-719-991-33 | DIODE 1SS133T-77 |
| D2803 | 8-719-991-33 | DIODE 1SS133T-77 |
| D2804 | 8-719-979-85 | DIODE EGP20G |
| D2805 | 8-719-970-87 | DIODE ERA38-06 |
| D2806 | 8-719-970-87 | DIODE ERA38-06 |
| D2807 | 8-719-302-43 | DIODE ELIZ |
| D2808 | 8-719-302-43 | DIODE ELIZ |

< IC >

| | | |
|---|---|---|
| IC2801 | 8-759-103-93 | IC UPC393C |
| IC2802 | 8-759-701-59 | IC NJM7809FA |

< COIL >

| | | | |
|---|---|---|---|
| L2801 | 1-406-674-21 | INDUCTOR | 3.3MMH |
| L2802 | 1-406-989-11 | INDUCTOR | 10MMH |
| L2803 | 1-406-989-11 | INDUCTOR | 10MMH |
| L2804 | 1-406-987-11 | INDUCTOR | 4.7MMH |
| L2805 | 1-406-667-21 | INDUCTOR | 220UH |

< TRANSISTOR >

| | | |
|---|---|---|
| Q2801 | 8-729-119-78 | TRANSISTOR 2SC2785-HFE |
| Q2802 | 8-729-119-78 | TRANSISTOR 2SC2785-HFE |
| Q2803 | 8-729-119-78 | TRANSISTOR 2SC2785-HFE |
| Q2804 | 8-729-119-78 | TRANSISTOR 2SC2785-HFE |
| Q2805 | 8-729-119-78 | TRANSISTOR 2SC2785-HFE |
| Q2806 | 8-729-039-68 | TRANSISTOR IRF620 |
| Q2807 | 8-729-119-78 | TRANSISTOR 2SC2785-HFE |
| Q2808 | 8-729-011-06 | TRANSISTOR 2SC3840K |

< RESISTOR >

| | | | | | |
|---|---|---|---|---|---|
| R2801 | 1-249-421-11 | CARBON | 2.2K | 5% | 1/4W |
| R2804 | 1-249-437-11 | CARBON | 47K | 5% | 1/4W |
| R2805 | 1-249-429-11 | CARBON | 10K | 5% | 1/4W |
| R2806 | 1-249-413-11 | CARBON | 470 | 5% | 1/4W |
| R2807 | 1-249-429-11 | CARBON | 10K | 5% | 1/4W |
| R2808 | 1-249-441-11 | CARBON | 100K | 5% | 1/4W |
| R2809 | 1-249-413-11 | CARBON | 470 | 5% | 1/4W |
| R2810 | 1-215-477-00 | METAL | 220K | 1% | 1/4W |
| R2811 | 1-247-895-91 | CARBON | 470K | 5% | 1/4W |
| R2812 | 1-247-895-91 | CARBON | 470K | 5% | 1/4W |
| R2813 | 1-215-467-00 | METAL | 82K | 1% | 1/4W |
| R2814 | 1-215-439-00 | METAL | 5.6K | 1% | 1/4W |
| R2815 | 1-215-469-00 | METAL | 100K | 1% | 1/4W |
| R2816 | 1-215-465-00 | METAL | 68K | 1% | 1/4W |
| R2817 | 1-215-437-00 | METAL | 4.7K | 1% | 1/4W |
| R2818 | 1-215-469-00 | METAL | 100K | 1% | 1/4W |
| R2819 | 1-249-429-11 | CARBON | 10K | 5% | 1/4W |
| R2820 | 1-249-425-11 | CARBON | 4.7K | 5% | 1/4W |
| R2821 | 1-249-411-11 | CARBON | 330 | 5% | 1/4W |
| R2822 | 1-249-437-11 | CARBON | 47K | 5% | 1/4W |
| R2823 | 1-215-907-11 | METAL OXIDE | 22 | 5% | 3W F |
| R2824 | 1-249-429-11 | CARBON | 10K | 5% | 1/4W |
| R2825 | 1-249-421-11 | CARBON | 2.2K | 5% | 1/4W |
| R2826 | 1-249-417-11 | CARBON | 1K | 5% | 1/4W |
| R2827 | 1-249-441-11 | CARBON | 100K | 5% | 1/4W |

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| REF.NO. | PART NO. | DESCRIPTION | | | REMARK |
|---|---|---|---|---|---|
| R2828 | 1-249-441-11 | CARBON | 100K | 5% | 1/4W |
| R2829 | 1-249-441-11 | CARBON | 100K | 5% | 1/4W |
| R2830 | 1-215-905-11 | METAL OXIDE | 10 | 5% | 3W F |
| R2831 | 1-249-377-11 | CARBON | 0.47 | 5% | 1/4W F |
| R2832 | 1-249-379-91 | CARBON | 0.68 | 5% | 1/4W F |
| | | < RELAY > | | | |
| RY2801 | 1-755-172-11 | RELAY | | | |
| | | < TRANSFORMER > | | | |
| T2801 | 1-406-904-21 | COIL, CHOKE 160UH | | | |
| T2802 | 1-429-305-11 | TRANSFORMER, FERRITE (DFT) | | | |
| ********** | | | | | |
| | *A-1642-216-A | D BOARD, COMPLETE | | | |
| | | ********** | | | |
| | 4-201-023-01 | SPACER, INSULATING | | | |
| | 4-202-373-01 | SPRING, IC | | | |
| | | < CAPACITOR > | | | |
| C502 | 1-102-824-00 | CERAMIC | 470PF | 5% | 50V |
| C503 | 1-136-165-00 | FILM | 0.1MF | 5% | 50V |
| C504 | 1-102-824-00 | CERAMIC | 470PF | 5% | 50V |
| C506 | 1-126-941-11 | ELECT | 470MF | 20% | 25V |
| C507 | 1-109-953-11 | ELECT | 2.2MF | 20% | 50V |
| C509 | 1-136-165-00 | FILM | 0.1MF | 5% | 50V |
| C510 | 1-126-969-11 | ELECT | 220MF | 20% | 50V |
| C511 | 1-136-202-11 | FILM | 0.33MF | 5% | 63V |
| C513 | 1-106-220-00 | MYLAR | 0.1MF | 10% | 100V |
| C514 | 1-136-165-00 | FILM | 0.1MF | 5% | 50V |
| C515 | 1-126-941-11 | ELECT | 470MF | 20% | 25V |
| C517 | 1-126-941-11 | ELECT | 470MF | 20% | 25V |
| C518 | 1-102-228-00 | CERAMIC | 470PF | 10% | 500V |
| C519 | 1-102-228-00 | CERAMIC | 470PF | 10% | 500V |
| C520 | 1-126-941-11 | ELECT | 470MF | 20% | 25V |
| C521 | 1-107-698-11 | ELECT | 10MF | 20% | 25V |
| C522 | 1-126-964-11 | ELECT | 10MF | 20% | 50V |
| C523 | 1-136-165-00 | FILM | 0.1MF | 5% | 50V |
| C600 ⚠ | 1-113-890-51 | CERAMIC | 0.0022MF | 20% | 250V |
| C601 ⚠ | 1-161-964-91 | CERAMIC | 0.0047MF | | 250V |
| C602 ⚠ | 1-161-964-91 | CERAMIC | 0.0047MF | | 250V |
| C603 | 1-125-555-11 | ELECT | 330MF | 20% | 400V |
| C604 | 1-126-968-11 | ELECT | 100MF | 20% | 50V |
| C605 | 1-107-929-11 | ELECT | 10MF | 20% | 100V |
| C606 | 1-162-318-11 | CERAMIC | 0.001MF | 10% | 500V |
| C607 | 1-104-666-11 | ELECT | 220MF | 20% | 25V |
| C608 | 1-109-880-11 | FILM | 0.0015MF | 3% | 2KV |
| C611 | 1-102-228-00 | CERAMIC | 470PF | 10% | 500V |
| C612 | 1-111-160-11 | ELECT | 22MF | 20% | 100V |
| C613 | 1-124-347-00 | ELECT | 100MF | 20% | 160V |
| C614 | 1-126-933-11 | ELECT | 100MF | 20% | 16V |
| C615 | 1-111-067-11 | ELECT | 0.001F | 20% | 25V |
| C616 | 1-111-067-11 | ELECT | 0.001F | 20% | 25V |
| C617 | 1-128-339-11 | ELECT | 2200MF | 20% | 16V |
| C618 | 1-136-165-00 | FILM | 0.1MF | 5% | 50V |
| C619 | 1-102-228-00 | CERAMIC | 470PF | 10% | 500V |
| C620 | 1-102-228-00 | CERAMIC | 470PF | 10% | 500V |
| C621 | 1-136-165-00 | FILM | 0.1MF | 5% | 50V |
| C622 | 1-107-925-11 | ELECT | 1MF | 20% | 100V |
| C623 | 1-104-666-11 | ELECT | 220MF | 20% | 25V |
| C624 | 1-136-165-00 | FILM | 0.1MF | 5% | 50V |
| C625 | 1-126-967-11 | ELECT | 47MF | 20% | 50V |
| C626 | 1-104-666-11 | ELECT | 220MF | 20% | 25V |
| C628 | 1-126-964-11 | ELECT | 10MF | 20% | 50V |
| C629 | 1-111-097-11 | ELECT | 0.0022F | 20% | 35V |
| C630 | 1-111-097-11 | ELECT | 0.0022F | 20% | 35V |
| C631 | 1-126-965-11 | ELECT | 22MF | 20% | 50V |
| C632 | 1-104-666-11 | ELECT | 220MF | 20% | 25V |
| C633 ⚠ | 1-107-563-11 | FILM | 0.1MF | 20% | 300V |
| C635 ⚠ | 1-107-563-11 | FILM | 0.1MF | 20% | 300V |
| C636 ⚠ | 1-113-890-51 | CERAMIC | 0.0022MF | 20% | 250V |
| C638 | 1-136-203-11 | FILM | 0.01MF | 10% | 250V |
| C640 | 1-106-220-00 | MYLAR | 0.1MF | 10% | 100V |
| C641 ⚠ | 1-161-744-00 | CERAMIC | 0.01MF | | 400V |
| C644 | 1-137-043-11 | FILM | 0.0047MF | 10% | 400V |
| C647 | 1-162-116-00 | CERAMIC | 680PF | 10% | 2KV |
| C651 | 1-102-228-00 | CERAMIC | 470PF | 10% | 500V |
| C800 | 1-137-368-11 | FILM | 0.0047MF | 5% | 50V |
| C801 | 1-137-372-11 | FILM | 0.022MF | 5% | 50V |
| C802 | 1-535-465-11 | LEAD, JUMPER (5.0MM) | | | |
| C804 | 1-136-165-00 | FILM | 0.1MF | 5% | 50V |
| C805 | 1-136-207-11 | FILM | 0.047MF | 10% | 250V |
| C806 | 1-104-999-11 | MYLAR | 0.1MF | 10% | 200V |
| C807 | 1-136-540-11 | FILM | 0.82MF | 5% | 200V |
| C808 | 1-136-946-11 | FILM | 0.12MF | 5% | 200V |
| C810 | 1-107-683-11 | ELECT | 2.2MF | 0 | 250V |
| C811 | 1-102-212-00 | CERAMIC | 820PF | 10% | 500V |
| C812 | 1-136-540-11 | FILM | 0.82MF | 5% | 200V |
| C813 | 1-129-724-51 | FILM | 0.068MF | 10% | 630V |
| C814 | 1-136-952-11 | FILM | 0.02MF | 3% | 1.4KV |
| C815 | 1-137-046-11 | FILM | 0.0082MF | 10% | 400V |
| C816 | 1-161-754-00 | CERAMIC | 0.001MF | 10% | 2KV |
| C817 | 1-161-754-00 | CERAMIC | 0.001MF | 10% | 2KV |
| C819 | 1-136-208-11 | FILM | 0.068MF | 10% | 250V |
| C820 | 1-102-114-00 | CERAMIC | 470PF | 10% | 50V |
| C821 | 1-162-114-00 | CERAMIC | 0.0047MF | | 2KV |
| C822 | 1-107-662-11 | ELECT | 22MF | 20% | 250V |
| C824 | 1-123-024-21 | ELECT | 33MF | | 160V |
| C829 | 1-126-959-11 | ELECT | 0.47MF | 20% | 50V |
| C832 | 1-126-959-11 | ELECT | 0.47MF | 20% | 50V |
| C834 | 1-128-551-11 | ELECT | 22MF | 20% | 25V |
| C835 | 1-162-318-11 | CERAMIC | 0.001MF | 10% | 500V |
| C836 | 1-162-117-00 | CERAMIC | 100PF | 10% | 500V |
| C838 | 1-102-228-00 | CERAMIC | 470PF | 10% | 500V |
| C839 | 1-136-207-11 | FILM | 0.047MF | 10% | 250V |
| C841 | 1-102-110-00 | CERAMIC | 220PF | 10% | 50V |
| C845 | 1-101-880-91 | CERAMIC | 47PF | 5% | 50V |
| C901 | 1-101-810-00 | CERAMIC | 100PF | 5% | 500V |
| C902 | 1-137-372-11 | FILM | 0.022MF | 5% | 50V |
| C903 | 1-137-372-11 | FILM | 0.022MF | 5% | 50V |
| C904 | 1-126-933-11 | ELECT | 100MF | 20% | 16V |
| C905 | 1-126-964-11 | ELECT | 10MF | 20% | 50V |
| C906 | 1-126-964-11 | ELECT | 10MF | 20% | 50V |
| C907 | 1-126-964-11 | ELECT | 10MF | 20% | 50V |
| C908 | 1-126-964-11 | ELECT | 10MF | 20% | 50V |
| C910 | 1-535-465-11 | LEAD, JUMPER (5.0MM) | | | |
| C911 | 1-126-964-11 | ELECT | 10MF | 20% | 50V |
| C913 | 1-101-810-00 | CERAMIC | 100PF | 5% | 500V |
| C916 | 1-137-040-11 | FILM | 0.0022MF | 10% | 400V |
| C1200 | 1-136-165-00 | FILM | 0.1MF | 5% | 50V |

D

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| REF.NO. | PART NO. | DESCRIPTION | | | REMARK |
|---|---|---|---|---|---|
| C1201 | 1-136-173-00 | FILM | 0.47MF | 5% | 50V |
| C1202 | 1-136-173-00 | FILM | 0.47MF | 5% | 50V |
| C1203 | 1-136-169-00 | FILM | 0.22MF | 5% | 50V |
| C1204 | 1-136-169-00 | FILM | 0.22MF | 5% | 50V |
| C1205 | 1-101-005-00 | CERAMIC | 0.022MF | | 50V |
| C1206 | 1-101-005-00 | CERAMIC | 0.022MF | | 50V |
| C1207 | 1-126-933-11 | ELECT | 100MF | 20% | 16V |
| C1208 | 1-126-963-11 | ELECT | 4.7MF | 20% | 50V |
| C1209 | 1-126-963-11 | ELECT | 4.7MF | 20% | 50V |
| C1212 | 1-162-318-11 | CERAMIC | 0.001MF | 10% | 500V |
| C1213 | 1-162-318-11 | CERAMIC | 0.001MF | 10% | 500V |
| C1214 | 1-126-933-11 | ELECT | 100MF | 20% | 16V |
| C1215 | 1-136-173-00 | FILM | 0.47MF | 5% | 50V |
| C1216 | 1-137-366-11 | FILM | 0.0022MF | 5% | 50V |
| C1217 | 1-137-366-11 | FILM | 0.0022MF | 5% | 50V |
| C1218 | 1-126-941-11 | ELECT | 470MF | 20% | 25V |
| | | < CONNECTOR > | | | |
| CN600 ⚠ | 1-508-786-00 | PIN, CONNECTOR (5MM PITCH) 2P | | | |
| CN601 ⚠ | 1-508-765-00 | PIN, CONNECTOR (5MM PITCH) 3P | | | |
| CN603 ⚠ | *1-580-844-11 | PIN, CONNECTOR (POWER) | | | |
| CN800 | *1-580-798-11 | CONNECTOR PIN (DY) 6P | | | |
| CN801 | *1-568-879-11 | PIN, CONNECTOR 4P | | | |
| CN802 | *1-508-784-00 | PIN, CONNECTOR (5MM PITCH) 1P | | | |
| CN803 | 1-695-915-11 | TAB (CONTACT) | | | |
| CN804 | 1-778-037-11 | PIN, CONNECTOR 6P | | | |
| CN807 | 1-568-878-51 | PIN, CONNECTOR 3P | | | |
| CN902 | 1-695-299-11 | CONNECTOR, BOARD TO BOARD 50P | | | |
| CN1401 | *1-568-880-51 | PIN, CONNECTOR 5P | | | |
| CN1408 | *1-568-879-11 | PIN, CONNECTOR 4P | | | |
| CN1803 | *1-568-878-51 | PIN, CONNECTOR 3P | | | |
| | | < DIODE > | | | |
| D500 | 8-719-109-85 | DIODE RD5.1ES-B2 | | | |
| D502 | 8-719-979-85 | DIODE EGP20G | | | |
| D503 | 8-719-979-85 | DIODE EGP20G | | | |
| D504 | 8-719-991-33 | DIODE 1SS133T-77 | | | |
| D505 | 8-719-982-03 | DIODE MTZJ-3.6A | | | |
| D506 | 8-719-991-33 | DIODE 1SS133T-77 | | | |
| D507 | 8-719-109-85 | DIODE RD5.1ES-B2 | | | |
| D510 | 8-719-924-13 | DIODE MTZJ-T-77-22B | | | |
| D600 | 8-719-510-53 | DIODE D4SB60L | | | |
| D601 | 8-719-046-77 | DIODE EM1-V1 | | | |
| D603 | 8-719-109-97 | DIODE RD6.8ES-B2 | | | |
| D604 | 8-719-046-75 | DIODE EU-1-V1 | | | |
| D605 | 8-719-302-43 | DIODE EL1Z | | | |
| D606 | 8-719-302-43 | DIODE EL1Z | | | |
| D607 | 8-719-046-78 | DIODE EG-1Z-V1 | | | |
| D608 | 8-719-302-06 | DIODE EU2A | | | |
| D609 | 8-719-312-10 | DIODE RU4AM-T3 | | | |
| D610 | 8-719-046-74 | DIODE AU-01Z-V1 | | | |
| D611 | 8-719-058-38 | DIODE FMN-G12S | | | |
| D612 | 8-719-046-76 | DIODE RU3YX-LF-C4 | | | |
| D613 | 8-719-058-38 | DIODE FMN-G12S | | | |
| D614 | 8-719-058-38 | DIODE FMN-G12S | | | |
| D615 | 8-719-046-75 | DIODE EU-1-V1 | | | |
| D616 | 8-719-110-03 | DIODE RD7.5ES-B2 | | | |
| D617 | 8-719-991-33 | DIODE 1SS133T-77 | | | |
| D618 | 8-719-991-33 | DIODE 1SS133T-77 | | | |
| D619 | 8-719-991-33 | DIODE 1SS133T-77 | | | |
| D620 | 8-719-991-33 | DIODE 1SS133T-77 | | | |
| D622 | 8-719-923-60 | DIODE MTZJ-T-77-9.1A | | | |
| D625 | 8-719-991-33 | DIODE 1SS133T-77 | | | |
| D626 | 8-719-046-74 | DIODE AU-01Z-V1 | | | |
| D631 | 8-719-109-93 | DIODE RD6.2ES-B2 | | | |
| D637 | 8-719-110-17 | DIODE RD10ES-B2 | | | |
| D800 | 8-719-991-33 | DIODE 1SS133T-77 | | | |
| D801 | 8-719-991-33 | DIODE 1SS133T-77 | | | |
| D802 | 8-719-991-33 | DIODE 1SS133T-77 | | | |
| D803 | 8-719-908-03 | DIODE GP08D | | | |
| D807 | 8-719-302-43 | DIODE EL1Z | | | |
| D808 | 8-719-908-03 | DIODE GP08D | | | |
| D809 | 8-719-031-34 | DIODE RGP02-20EG23 | | | |
| D810 | 8-719-302-43 | DIODE EL1Z | | | |
| D812 | 8-719-038-49 | DIODE FMS-3FU-LF027-103 | | | |
| D815 | 8-719-908-03 | DIODE GP08D | | | |
| D817 | 8-719-109-85 | DIODE RD5.1ES-B2 | | | |
| D901 | 8-719-030-11 | DIODE SLA-570KT3F | | | |
| D902 | 8-719-923-60 | DIODE MTZJ-T-77-9.1A | | | |
| D903 | 8-719-923-60 | DIODE MTZJ-T-77-9.1A | | | |
| D904 | 8-719-923-60 | DIODE MTZJ-T-77-9.1A | | | |
| D905 | 8-719-923-60 | DIODE MTZJ-T-77-9.1A | | | |
| D906 | 8-719-923-60 | DIODE MTZJ-T-77-9.1A | | | |
| D907 | 8-719-109-89 | DIODE RD5.6ES-B2 | | | |
| D908 | 8-719-923-60 | DIODE MTZJ-T-77-9.1A | | | |
| D909 | 8-719-923-60 | DIODE MTZJ-T-77-9.1A | | | |
| D910 | 8-719-923-60 | DIODE MTZJ-T-77-9.1A | | | |
| D920 | 8-719-109-89 | DIODE RD5.6ESB2 | | | |
| D1201 | 8-719-109-72 | DIODE RD3.9ES-B2 | | | |
| D1202 | 1-535-465-11 | LEAD, JUMPER (5.0MM) | | | |
| | | < FUSE > | | | |
| F601 ⚠ | 1-576-232-21 | FUSE (H.B.C.) | | | |
| | *1-533-725-11 | HOLDER, FUSE : F601 | | | |
| | | < FERRITE BEAD > | | | |
| FB600 | 1-410-397-21 | FERRITE BEAD INDUCTOR 1.1UH | | | |
| FB601 | 1-410-397-21 | FERRITE BEAD INDUCTOR 1.1UH | | | |
| FB602 | 1-410-397-21 | FERRITE BEAD INDUCTOR 1.1UH | | | |
| FB604 | 1-410-396-41 | FERRITE BEAD INDUCTOR 0.45UH | | | |
| FB605 | 1-410-396-41 | FERRITE BEAD INDUCTOR 0.45UH | | | |
| FB606 | 1-410-397-21 | FERRITE BEAD INDUCTOR 1.1UH | | | |
| FB607 | 1-410-397-21 | FERRITE BEAD INDUCTOR 1.1UH | | | |
| FB608 | 1-410-396-41 | FERRITE BEAD INDUCTOR 0.45UH | | | |
| FB800 | 1-410-396-41 | FERRITE BEAD INDUCTOR 0.45UH | | | |
| | | < IC > | | | |
| IC500 | 8-759-192-71 | IC STV9379 | | | |
| IC600 | 8-749-010-84 | IC STR-S6708 | | | |
| IC601 ⚠ | 8-749-013-21 | IC TLP721(D4-G,T) | | | |
| IC602 | 8-749-920-61 | IC SE135N | | | |
| IC603 | 8-759-144-82 | IC UPC2405HF | | | |
| IC604 | 8-759-510-52 | IC L4941BV | | | |
| IC606 | 8-759-267-25 | IC LM2940T-9.0 | | | |
| IC800 | 8-759-103-93 | IC UPC393C | | | |
| IC900 | 8-742-014-10 | HYB IC SBX1981-51 | | | |
| IC1200 | 8-759-250-68 | IC TDA7264 | | | |
| IC1201 | 8-759-502-21 | IC TDA2822M | | | |

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Ne les remplacer que par une piece portant le numero specifie.

| REF.NO. | PART NO. | DESCRIPTION | REMARK |
|---|---|---|---|
| | | < JACK > | |
| J900 | 1-764-606-11 | JACK | |
| J1200 | 1-770-218-11 | JACK, PIN | |
| | | < COIL > | |
| L502 | 1-412-519-11 | INDUCTOR 3.3UH | |
| L503 | 1-412-519-11 | INDUCTOR 3.3UH | |
| L609 | 1-412-533-21 | INDUCTOR 47UH | |
| L10 | 1-535-465-11 | LEAD, JUMPER (5MM) | |
| L611 | 1-412-527-11 | INDUCTOR 15UH | |
| L612 | 1-412-519-11 | INDUCTOR 3.3UH | |
| L613 | 1-412-519-11 | INDUCTOR 3.3UH | |
| L615 | 1-412-529-11 | INDUCTOR 22UH | |
| L616 | 1-412-533-21 | INDUCTOR 47UH | |
| L801 | 1-459-111-00 | COIL, DRAM CORE (CDI) | |
| L802 | 1-459-104-00 | COIL, WITH CORE | |
| L803 | 1-535-465-11 | LEAD, JUMPER (5.0MM) | |
| L805 | 1-406-674-11 | COIL, CHOKE 3.3MMH | |
| L806 | 1-535-405-11 | LEAD, JUMPER (5.0MM) | |
| L809 | 1-408-417-00 | INDUCTOR 47UH | |
| L810 | 1-535-465-11 | LEAD, JUMPER (5MM) | |
| L811 | 1-406-978-11 | COIL, CHOKE 150UH | |
| L813 | 1-412-552-11 | INDUCTOR 2.2MMH | |
| L901 | 1-408-603-31 | INDUCTOR 10UH | |
| L902 | 1-408-603-31 | INDUCTOR 10UH | |
| L903 | 1-408-409-00 | INDUCTOR 10UH | |
| L904 | 1-408-409-00 | INDUCTOR 10UH | |
| | | < IC LINK > | |
| PS600 ⚠ | 1-532-686-21 | LINK, IC 2.7A (ICP-F75) | |
| PS601 ⚠ | 1-532-686-21 | LINK, IC 2.7A (ICP-F75) | |
| PS602 ⚠ | 1-532-686-21 | LINK, IC 2.7A (ICP-F75) | |
| PS603 ⚠ | 1-532-686-21 | LINK, IC 2.7A (ICP-F75) | |
| | | < TRANSISTOR > | |
| Q501 | 8-729-119-78 | TRANSISTOR 2SC2785-HFE | |
| Q502 | 8-729-119-76 | TRANSISTOR 2SA1175-HFE | |
| Q503 | 8-729-903-02 | TRANSISTOR DTC144ESA | |
| Q601 | 8-729-025-04 | TRANSISTOR 2SC3852A | |
| Q602 | 8-729-320-28 | TRANSISTOR 2SA1667 | |
| Q603 | 8-729-805-05 | TRANSISTOR 2SC3601-E | |
| Q604 | 8-729-024-35 | TRANSISTOR 2SC2808STP-R | |
| Q605 | 8-729-119-78 | TRANSISTOR 2SC2785-HFE | |
| Q606 | 8-729-900-65 | TRANSISTOR DTA144ES | |
| Q607 | 8-729-119-78 | TRANSISTOR 2SC2785-HFE | |
| Q800 | 8-729-119-78 | TRANSISTOR 2SC2785-HFE | |
| Q801 | 8-729-017-06 | TRANSISTOR 2SC4793 | |
| Q802 | 8-729-042-86 | TRANSISTOR 2SC5251-01 | |
| Q803 | 8-729-119-80 | TRANSISTOR 2SC2688-LK | |
| Q805 | 8-729-903-02 | TRANSISTOR DTC144ESA | |
| Q900 | 8-729-119-78 | TRANSISTOR 2SC2785-HFE | |
| Q1200 | 8-729-119-78 | TRANSISTOR 2SC2785-HFE | |
| Q1201 | 8-729-029-94 | TRANSISTOR DTC143TSA | |
| Q1202 | 8-729-024-94 | TRANSISTOR DTC114TSA | |
| Q1203 | 8-729-029-94 | TRANSISTOR DTC143TSA | |
| Q1204 | 8-729-029-94 | TRANSISTOR DTC143TSA | |
| | | < RESISTOR > | |
| R500 | 1-215-457-00 | METAL 33K 1% 1/4W | |
| R502 | 1-249-421-11 | CARBON 2.2K 5% 1/4W | |
| R503 | 1-249-429-11 | CARBON 10K 5% 1/4W | |
| R504 | 1-215-441-00 | METAL 6.8K 1% 1/4W | |
| R505 | 1-249-382-11 | CARBON 1.2 5% 1/4W | F |
| R506 | 1-215-455-00 | METAL 27K 1% 1/4W | |
| R507 | 1-215-888-00 | METAL OXIDE 220 5% 2W | F |
| R508 | 1-216-371-00 | METAL OXIDE 1.5 5% 2W | F |
| R509 | 1-249-443-11 | CARBON 0.47 5% 1/4W | F |
| R510 | 1-249-443-11 | CARBON 0.47 5% 1/4W | F |
| R519 | 1-215-451-00 | METAL 18K 1% 1/4W | |
| R520 | 1-215-451-00 | METAL 18K 1% 1/4W | |
| R521 | 1-215-457-00 | METAL 33K 1% 1/4W | |
| R522 | 1-247-863-91 | CARBON 22K 5% 1/4W | |
| R523 | 1-247-863-91 | CARBON 22K 5% 1/4W | |
| R524 | 1-249-425-11 | CARBON 4.7K 5% 1/4W | |
| R525 | 1-249-425-11 | CARBON 4.7K 5% 1/4W | |
| R526 | 1-249-421-11 | CARBON 2.2K 5% 1/4W | |
| R527 | 1-215-433-00 | METAL 3.3K 1% 1/4W | |
| R600 ⚠ | 1-216-490-11 | METAL OXIDE 39K 5% 3W | F |
| R601 | 1-249-417-11 | CARBON 1K 5% 1/4W | |
| R602 | 1-215-473-00 | METAL 150K 1% 1/4W | |
| R603 | 1-215-898-11 | METAL OXIDE 10K 5% 2W | F |
| R604 | 1-249-420-11 | CARBON 1.8K 5% 1/4W | |
| R605 | 1-216-362-11 | METAL OXIDE 0.27 5% 2W | F |
| R606 | 1-535-143-21 | LEAD, JUMPER (12.5MM) | |
| R607 | 1-216-421-11 | METAL OXIDE 12 5% 1W | F |
| R608 | 1-216-365-00 | METAL OXIDE 0.47 5% 2W | F |
| R609 | 1-535-465-11 | LEAD, JUMPER (5.0MM) | |
| R610 | 1-215-427-00 | METAL 1.8K 1% 1/4W | |
| R611 | 1-216-354-11 | METAL OXIDE 2.7 5% 1W | F |
| R612 | 1-249-428-11 | CARBON 8.2K 5% 1/4W | |
| R613 | 1-249-417-11 | CARBON 1K 5% 1/4W | |
| R614 | 1-215-877-11 | METAL OXIDE 22K 5% 1W | F |
| R615 | 1-249-435-11 | CARBON 33K 5% 1/4W | |
| R616 | 1-215-471-00 | METAL 120K 1% 1/4W | |
| R617 | 1-215-901-00 | METAL OXIDE 33K 5% 2W | F |
| R618 | 1-247-863-91 | CARBON 22K 5% 1/4W | |
| R619 | 1-216-425-11 | METAL OXIDE 56 5% 1W | F |
| R620 | 1-260-131-11 | CARBON 470K 5% 1/2W | |
| R621 | 1-216-425-11 | METAL OXIDE 56 5% 1W | F |
| R622 | 1-249-437-11 | CARBON 47K 5% 1/4W | |
| R623 | 1-249-429-11 | CARBON 10K 5% 1/4W | |
| R624 | 1-249-393-11 | CARBON 10 5% 1/4W | F |
| R625 | 1-249-434-11 | CARBON 27K 5% 1/4W | |
| R626 | 1-249-430-11 | CARBON 12K 5% 1/4W | |
| R627 | 1-216-347-11 | METAL OXIDE 0.68 5% 1W | F |
| R628 | 1-249-415-11 | CARBON 680 5% 1/4W | F |
| R629 | 1-214-937-00 | CARBON 1M 5% 1/2W | |
| R629 ⚠ | 1-260-135-11 | CARBON 1M 5% 1/2W | |
| R630 ⚠ | 1-218-265-11 | METAL 8.2M 5% 1W | |
| R631 ⚠ | 1-202-961-11 | WIREWOUND 1.8 5% 10W | |
| R632 | 1-247-807-31 | CARBON 100 5% 1/4W | |
| R633 | 1-247-807-31 | CARBON 100 5% 1/4W | |
| R634 | 1-249-397-11 | CARBON 22 5% 1/4W | F |
| R635 | 1-249-437-11 | CARBON 47K 5% 1/4W | |
| R636 | 1-249-417-11 | CARBON 1K 5% 1/4W | |
| R637 | 1-247-815-91 | CARBON 220 5% 1/4W | |
| R638 | 1-247-863-91 | CARBON 22K 5% 1/4W | |
| R639 | 1-215-425-00 | METAL 1.5K 1% 1/4W | |
| R642 ⚠ | 1-205-949-11 | WIREWOUND 1.8 5% 10W | |
| R646 | 1-249-377-11 | CARBON 0.47 5% 1/4W | F |
| R647 | 1-202-933-61 | FUSIBLE 0.1 10% 1/2W | F |

D VM

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Ne les remplacer que par une piece portant le numero specifie.

| REF.NO. | PART NO. | DESCRIPTION | | | REMARK |
|---|---|---|---|---|---|
| R649 | 1-249-426-11 | CARBON | 5.6K | 5% | 1/4W |
| R800 | 1-249-429-11 | CARBON | 10K | 5% | 1/4W |
| R802 | 1-249-429-11 | CARBON | 10K | 5% | 1/4W |
| R803 | 1-249-427-11 | CARBON | 6.8K | 5% | 1/4W |
| R805 | 1-249-429-11 | CARBON | 10K | 5% | 1/4W |
| R809 | 1-247-897-11 | CARBON | 560K | 5% | 1/4W |
| R811 | 1-535-465-11 | LEAD, JUMPER (5.0MM) | | | |
| R812 | 1-249-421-11 | CARBON | 2.2K | 5% | 1/4W |
| R813 | 1-215-869-11 | METAL OXIDE | 1K | 5% | 1W F |
| R814 | 1-249-411-11 | CARBON | 330 | 5% | 1/4W |
| R816 | 1-216-456-21 | METAL OXIDE | 820 | 5% | 2W F |
| R817 | 1-216-456-21 | METAL OXIDE | 820 | 5% | 2W F |
| R818 | 1-215-884-51 | METAL OXIDE | 47 | 5% | 2W F |
| R819 | 1-535-143-71 | LEAD, JUMPER (7.5)MM | | | |
| R820 | 1-249-403-11 | CARBON | 68 | 5% | 1/4W |
| R821 | 1-215-909-11 | METAL OXIDE | 47 | 5% | 3W F |
| R822 | 1-215-868-00 | METAL OXIDE | 680 | 5% | 1W F |
| R823 | 1-216-456-21 | METAL OXIDE | 820 | 5% | 2W F |
| R824 | 1-249-420-11 | CARBON | 1.8K | 5% | 1/4W |
| R825 | 1-215-884-51 | METAL OXIDE | 47 | 5% | 2W F |
| R826 | 1-247-752-11 | CARBON | 1K | 5% | 1/2W |
| R827 | 1-249-425-11 | CARBON | 4.7K | 5% | 1/4W |
| R828 | 1-249-432-11 | CARBON | 18K | 5% | 1/4W |
| R829 | 1-260-120-11 | CARBON | 56K | 5% | 1/2W |
| R830 | 1-217-778-11 | FUSIBLE | 1K | 5% | 1W F |
| R831 | 1-535-465-11 | LEAD, JUMPER (5.0MM) | | | |
| R833 | 1-249-441-11 | CARBON | 100K | 5% | 1/4W |
| R835 | 1-216-471-71 | METAL OXIDE | 27 | 5% | 3W F |
| R836 | 1-249-439-11 | CARBON | 68K | 5% | 1/4W |
| R837 | 1-247-869-91 | CARBON | 39K | 5% | 1/4W |
| R840 | 1-247-807-31 | CARBON | 100 | 5% | 1/4W |
| R841 | 1-249-418-11 | CARBON | 1.2K | 5% | 1/4W |
| R844 | 1-535-143-11 | LEAD, JUMPER (10.0MM) | | | |
| R846 | 1-249-440-11 | CARBON | 82K | 5% | 1/4W |
| R847 | 1-259-880-11 | CARBON | 2.2M | 5% | 1/4W |
| R848 | 1-247-903-00 | CARBON | 1M | 5% | 1/4W |
| R849 | 1-249-429-11 | CARBON | 10K | 5% | 1/4W |
| R850 | 1-249-425-11 | CARBON | 4.7K | 5% | 1/4W |
| R851 | 1-215-898-11 | METAL OXIDE | 10K | 5% | 2W F |
| R852 | 1-249-432-11 | CARBON | 18K | 5% | 1/4W |
| R870 | 1-535-143-71 | LEAD, JUMPER (7.5MM) | | | |
| R900 | 1-247-815-91 | CARBON | 220 | 5% | 1/4W |
| R901 | 1-247-734-11 | CARBON | 39 | 5% | 1/2W |
| R901 | 1-260-311-11 | CARBON | 39 | 5% | 1/2W |
| R902 | 1-247-734-11 | CARBON | 39 | 5% | 1/2W |
| R904 | 1-249-389-11 | CARBON | 4.7 | 5% | 1/4W F |
| R905 | 1-247-804-11 | CARBON | 75 | 5% | 1/4W |
| R906 | 1-247-804-11 | CARBON | 75 | 5% | 1/4W |
| R907 | 1-247-804-11 | CARBON | 75 | 5% | 1/4W |
| R908 | 1-249-401-11 | CARBON | 47 | 5% | 1/4W |
| R909 | 1-249-429-11 | CARBON | 10K | 5% | 1/4W |
| R910 | 1-249-422-11 | CARBON | 2.7K | 5% | 1/4W |
| R911 | 1-249-426-11 | CARBON | 5.6K | 5% | 1/4W |
| R912 | 1-249-429-11 | CARBON | 10K | 5% | 1/4W |
| R913 | 1-247-863-91 | CARBON | 22K | 5% | 1/4W |
| R914 | 1-249-437-11 | CARBON | 47K | 5% | 1/4W |
| R922 | 1-247-807-31 | CARBON | 100 | 5% | 1/4W |
| R923 | 1-249-421-11 | CARBON | 2.2K | 5% | 1/4W |
| R1200 | 1-249-425-11 | CARBON | 4.7K | 5% | 1/4W |
| R1201 | 1-249-434-11 | CARBON | 27K | 5% | 1/4W |
| R1202 | 1-249-389-11 | CARBON | 4.7 | 5% | 1/4W F |
| R1203 | 1-249-421-11 | CARBON | 2.2K | 5% | 1/4W |
| R1204 | 1-249-421-11 | CARBON | 2.2K | 5% | 1/4W |
| R1205 | 1-249-428-11 | CARBON | 8.2K | 5% | 1/4W |
| R1206 | 1-249-428-11 | CARBON | 8.2K | 5% | 1/4W |
| R1207 | 1-249-413-11 | CARBON | 470 | 5% | 1/4W |
| R1208 | 1-212-849-00 | FUSIBLE | 4.7 | 5% | 1/4W F |
| R1209 | 1-212-849-00 | FUSIBLE | 4.7 | 5% | 1/4W F |
| R1210 | 1-249-413-11 | CARBON | 470 | 5% | 1/4W |
| R1211 | 1-249-424-11 | CARBON | 3.9K | 5% | 1/4W |
| R1212 | 1-249-424-11 | CARBON | 3.9K | 5% | 1/4W |
| R1213 | 1-249-421-11 | CARBON | 2.2K | 5% | 1/4W |
| R1216 | 1-249-413-11 | CARBON | 470 | 5% | 1/4W |
| R1217 | 1-249-425-11 | CARBON | 4.7K | 5% | 1/4W |
| R1218 | 1-535-465-11 | LEAD, JUMPER (5.0MM) | | | |
| R1219 | 1-249-417-11 | CARBON | 1K | 5% | 1/4W |

< RELAY >

| | | | |
|---|---|---|---|
| RY600 ⚠ | 1-755-018-11 | RELAY | |

< SWITCH >

| | | | |
|---|---|---|---|
| S601 ⚠ | 1-571-433-21 | SWITCH, PUSH (AC POWER) | |
| S900 | 1-692-979-11 | SWITCH, TACTILE | |
| S901 | 1-692-979-11 | SWITCH, TACTILE | |
| S902 | 1-692-979-11 | SWITCH, TACTILE | |

< SPARK GAP >

| | | | |
|---|---|---|---|
| SG801 | 1-519-422-11 | GAP, SPARK | |
| SG802 | 1-519-422-11 | GAP, SPARK | |

< TRANSFORMER >

| | | | |
|---|---|---|---|
| LF600 ⚠ | 1-421-776-11 | LFT | |
| LF601 ⚠ | 1-421-776-11 | LFT | |
| T601 ⚠ | 1-429-605-11 | TRANSFORMER, CONVERTER | |
| T800 | 1-426-981-11 | TRANSFORMER, FERRITE (PMT) | |
| T803 ⚠ | 1-453-257-11 | TRANSFORMER, ASSY FLYBACK | (NX-4126/U2A4) |
| T804 | 1-437-090-31 | HDT | |
| T805 | 1-429-306-11 | TRANSFORMER, HORIZONTAL LINEAR | |

< THERMISTOR >

| | | | |
|---|---|---|---|
| THP600 ⚠ | 1-809-827-11 | THERMISTOR, POSITIVE | |

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| | | |
|---|---|---|
| *A-1644-082-A | VM BOARD, COMPLETE | |
| | ********** | |
| *4-368-683-11 | SPRING, TRANSISTOR | |
| *4-368-683-21 | SPRING, TRANSISTOR | |

< CAPACITOR >

| | | | | | |
|---|---|---|---|---|---|
| C1701 | 1-126-933-11 | ELECT | 100MF | 20% | 16V |
| C1702 | 1-128-551-11 | ELECT | 22MF | 20% | 25V |
| C1703 | 1-126-933-11 | ELECT | 100MF | 20% | 16V |
| C1704 | 1-107-357-11 | FILM | 0.47MF | 5% | 100V |
| C1705 | 1-107-638-11 | ELECT | 33MF | 20% | 160V |
| C1706 | 1-104-999-11 | FILM | 0.1MF | 5% | 200V |
| C1707 | 1-137-397-11 | FILM | 0.047MF | 5% | 100V |
| C1708 | 1-137-364-11 | FILM | 0.001MF | 5% | 50V |
| C1709 | 1-137-364-11 | FILM | 0.001MF | 5% | 50V |
| C1710 | 1-102-074-00 | CERAMIC | 0.001MF | 10% | 50V |

VM

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| REF.NO. | PART NO. | DESCRIPTION | | | REMARK |
|---|---|---|---|---|---|
| C1720 | 1-107-667-11 | ELECT | 2.2MF | 20% | 160V |
| C1721 | 1-137-397-11 | FILM | 0.047MF | 5% | 100V |
| C1722 | 1-126-934-11 | ELECT | 220MF | 20% | 16V |
| C1723 | 1-161-830-00 | CERAMIC | 0.0047MF | | 500V |
| C1725 | 1-128-551-11 | ELECT | 22MF | 20% | 25V |
| C1726 | 1-126-934-11 | ELECT | 220MF | 20% | 16V |
| C1801 | 1-104-664-11 | ELECT | 47MF | 20% | 25V |
| C1803 | 1-137-368-11 | FILM | 0.0047MF | 5% | 50V |
| C1804 | 1-126-964-11 | ELECT | 10MF | 20% | 50V |
| C1805 | 1-137-366-11 | FILM | 0.0022MF | 5% | 50V |
| | | < CONNECTOR > | | | |
| CN1015 | *1-568-880-51 | PIN, CONNECTOR 5P | | | |
| CN1718 | *1-770-723-11 | CONNECTOR, BOARD TO BOARD 8P | | | |
| CN1719 | 1-568-878-51 | PIN, CONNECTOR 3P | | | |
| CN1801 | *1-568-878-51 | PIN, CONNECTOR 3P | | | |
| CN1802 | *1-568-878-51 | PIN, CONNECTOR 3P | | | |
| | | < DIODE > | | | |
| D1701 | 8-719-991-33 | DIODE 1SS133T-77 | | | |
| D1702 | 8-719-110-88 | DIODE RD39ES-B2 | | | |
| D1703 | 8-719-110-88 | DIODE RD39ES-B2 | | | |
| D1801 | 8-719-929-15 | DIODE HZS9.1N-B2 | | | |
| | | < IC > | | | |
| IC1801 | 8-759-701-59 | IC NJM78M09FA | | | |
| IC1802 | 8-759-603-37 | IC M5216P | | | |
| | | < COIL > | | | |
| L1701 | 1-408-409-00 | INDUCTOR | 10UH | | |
| L1702 | 1-408-403-00 | INDUCTOR | 3.3UH | | |
| L1703 | 1-408-409-00 | INDUCTOR | 10UH | | |
| L1704 | 1-408-418-00 | INDUCTOR | 56UH | | |
| L1705 | 1-408-418-00 | INDUCTOR | 56UH | | |
| | | < IC LINK > | | | |
| PS1801 ⚠ | 1-532-605-00 | LINK, IC | | | |
| | | < TRANSISTOR > | | | |
| Q1701 | 8-729-119-78 | TRANSISTOR 2SC2785-HFE | | | |
| Q1702 | 8-729-119-78 | TRANSISTOR 2SC2785-HFE | | | |
| Q1703 | 8-729-017-05 | TRANSISTOR 2SA1837 | | | |
| Q1704 | 8-729-119-78 | TRANSISTOR 2SC2785-HFE | | | |
| Q1706 | 8-729-017-06 | TRANSISTOR 2SC4793 | | | |
| Q1708 | 8-729-119-78 | TRANSISTOR 2SC2785-HFE | | | |
| Q1709 | 8-729-119-78 | TRANSISTOR 2SC2785-HFE | | | |
| | | < RESISTOR > | | | |
| R1701 | 1-249-417-11 | CARBON | 1K | 5% | 1/4W |
| R1702 | 1-249-417-11 | CARBON | 1K | 5% | 1/4W |
| R1703 | 1-249-421-11 | CARBON | 2.2K | 5% | 1/4W |
| R1704 | 1-249-415-11 | CARBON | 680 | 5% | 1/4W |
| R1705 | 1-247-815-91 | CARBON | 220 | 5% | 1/4W |
| R1706 | 1-247-815-91 | CARBON | 220 | 5% | 1/4W |
| R1708 | 1-249-412-11 | CARBON | 390 | 5% | 1/4W |
| R1712 | 1-260-311-11 | CARBON | 39 | 5% | 1/2W |
| R1713 | 1-249-384-11 | CARBON | 1.8 | 5% | 1/4W F |
| R1714 | 1-249-414-11 | CARBON | 560 | 5% | 1/4W F |
| R1715 | 1-249-432-11 | CARBON | 18K | 5% | 1/4W |
| R1716 | 1-249-417-11 | CARBON | 1K | 5% | 1/4W F |
| R1717 | 1-216-476-11 | METAL OXIDE | 180 | 5% | 3W F |
| R1718 | 1-249-432-11 | CARBON | 18K | 5% | 1/4W |
| R1719 | 1-249-384-11 | CARBON | 1.8 | 5% | 1/4W F |
| R1720 | 1-249-400-11 | CARBON | 39 | 5% | 1/4W F |
| R1721 | 1-249-414-11 | CARBON | 560 | 5% | 1/4W |
| R1722 | 1-249-401-11 | CARBON | 47 | 5% | 1/4W |
| R1724 | 1-247-797-91 | CARBON | 39 | 5% | 1/4W |
| R1725 | 1-216-451-11 | METAL OXIDE | 120 | 5% | 2W F |
| R1728 | 1-249-413-11 | CARBON | 470 | 5% | 1/4W |
| R1729 | 1-249-413-11 | CARBON | 470 | 5% | 1/4W |
| R1730 | 1-249-422-11 | CARBON | 2.7K | 5% | 1/4W |
| R1731 | 1-249-411-11 | CARBON | 330 | 5% | 1/4W |
| R1806 | 1-247-883-00 | CARBON | 150K | 5% | 1/4W |
| R1807 | 1-249-429-11 | CARBON | 10K | 5% | 1/4W |
| R1808 | 1-249-429-11 | CARBON | 10K | 5% | 1/4W |
| R1809 | 1-249-429-11 | CARBON | 10K | 5% | 1/4W |
| R1810 | 1-249-429-11 | CARBON | 10K | 5% | 1/4W |

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| REF.NO. | PART NO. | DESCRIPTION | REMARK |
|---|---|---|---|
| | | MISCELLANEOUS | |
| | | ********** | |
| ⚠ | 1-416-452-11 | COIL, DEGAUSSING | |
| | 1-452-032-00 | MAGNET, DISK; 10MM Ø | |
| | 1-452-094-00 | MAGNET, ROTATABLE DISK; 15MM Ø | |
| ⚠ | 1-453-257-11 | TRANSFORMER ASSY, FLYBACK (NX-4126/U2A4) | |
| | 1-505-782-11 | SPEAKER (8CM) | |
| | 1-452-724-71 | COIL, ROTATION (RT-165) | |
| ⚠ | 1-571-433-21 | SWITCH, PUSH (AC POWER) | |
| | 1-693-338-11 | TUNER (TUVIF) (AEP) (KV-32WF1A/32WF1D/32WF1E/32WF1K) | |
| | 1-693-340-11 | TUNER (TUVIF) (FR) (KV-32WF1B) | |
| | 1-693-339-11 | TUNER (TUVIF) (UK) (KV-32WF1U) | |
| ⚠ | 1-751-501-21 | CORD, POWER (WITH NOISE FILTER) (KV-32WF1A/32WF1B/32WF1D/32WF1E/32WF1K) | |
| ⚠ | 1-776-204-12 | CORD, POWER (FILTER) 3A/250V (KV-32WF1U) | |
| ⚠ | 8-451-492-11 | DEFLECTION YOKE (Y32C2A-M) | |
| ⚠ | 8-453-011-11 | NECK ASSY, (NA299-M) | |
| V901 ⚠ | 8-735-037-05 | PICTURE TUBE (SD-297)(W76LHT060X) | |
| | | ********** | |
| | | ACCESSORIES AND PACKING MATERIALS | |
| | | ********** | |
| | 4-203-872-41 | MANUAL, INSTRUCTION (KV-32WF1A) (ITALIAN) | |
| | 4-203-872-51 | MANUAL, INSTRUCTION (KV-32WF1B) (FRENCH/GERMAN/ITALIAN/DUTCH) | |
| | 4-203-872-11 | MANUAL, INSTRUCTION (KV-32WF1D) (ENGLISH/DUTCH/GERMAN/GREEK) | |
| | 4-203-872-71 | MANUAL, INSTRUCTION (KV-32WF1E) (SPANISH) | |
| | 4-203-872-81 | MANUAL, INSTRUCTION (KV-32WF1E) (PORTUGUESE/FINNISH/DANISH/NORWEGIAN/SWEDISH) | |
| | 4-203-872-91 | MANUAL, INSTRUCTION (KV-32WF1K/ (ENGLISH/CZECH/POLISH) | |
| | 4-203-872-61 | MANUAL, INSTRUCTION (KV-32WF1U) (ENGLISH) | |
| | *4-203-902-01 | INDIVIDUAL CARTON | |
| | *4-203-901-01 | CUSHION (LOWER) (ASSY) | |
| | *4-203-900-01 | CUSHION (UPPER) (ASSY) | |
| | *4-203-908-01 | CUSHION (REAR) | |
| | *4-029-168-01 | BAG, PROTECTION | |
| | | REMOTE COMMANDER | |
| | | ********** | |
| | 1-473-693-11 | COMMANDER, STANDARD TYPE (RM-839) | |
| | | ********** | |

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