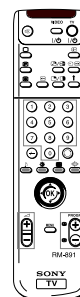
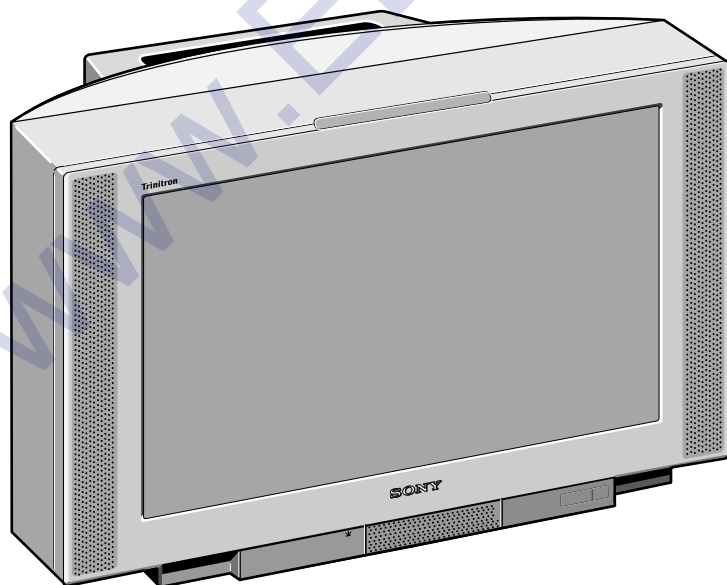


Self Diagnosis
Supported model

SERVICE MANUAL

AE-5 CHASSIS

MODEL	COMMANDER	DEST	CHASSIS NO.	MODEL	COMMANDER	DEST	CHASSIS NO.
KV-29FS60A	RM-891	Italian	SCC-Q12E-A	KV-32FS60A	RM-891	Italian	SCC-Q12F-A
KV-29FS60B	RM-891	French	SCC-Q13E-A	KV-32FS60B	RM-891	French	SCC-Q13F-A
KV-29FS60D	RM-891	AEP	SCC-Q11E-A	KV-32FS60D	RM-891	AEP	SCC-Q11F-A
KV-29FS60E	RM-891	Spanish	SCC-Q14E-A	KV-32FS60E	RM-891	Spanish	SCC-Q14F-A
KV-29FS60K	RM-891	OIRT	SCC-Q16G-A				
KV-29FS60R	RM-891	OIRT	SCC-Q16H-A				
KV-29FS60U	RM-891	UK	SCC-Q15D-A				



TRINITRON® COLOR TV
SONY®

ITEM MODEL	Television System	Stereo System	Channel Coverage	Color System
Italian	B/G/H,D/K	GERMAN Stereo	ITALIA VHF : A-H2 (C) UHF : 21-69 PAL B/G/H VHF : E2-E12 UHF : E21-E69 CABLE TV (1) : S1-S41 CABLE TV (2) : S01-S05,M1-M10,U1-U10 DK VHF : R01-R12 UHF : R21-R69	PAL, SECAM NTSC4.43, NTSC3 58 (VIDEO IN)
French	B/G/H, D/K,L,I	GERMAN/NICAM Stereo	L VHF : F02-F10 UHF : F21-F60 CABLE : B-Q B/G/H VHF : E2-E12 UHF : E21-E69 CABLE TV (1) : S1-S41 CABLE TV (2) : S01-S05, M1-M10, U1-U10 ITALIA VHF : A-H2 (C) UHF : 21-69 I UHF : B21-B69	PAL, SECAM NTSC4.43, NTSC3 58 (VIDEO IN)
AEP	B/G/H, D/K	GERMAN Stereo	PAL B/G/H/ VHF : E2-E12 : E21-E69 CABLE TV (1) : S1-S41 CABLE TV (2) : S01-S05, M1-M10, U1-U10 ITALIA VHF : A-H2 (C) UHF : 21-69 D/K VHF : R01-R12 UHF : R21-R69	PAL, SECAM NTSC4.43, NTSC3 58 (VIDEO IN)
Spanish	B/G/H, D/K	GERMAN/NICAM Stereo	PAL B/G/H/ VHF : E2-E12 : E21-E69 CABLE TV (1) : S1-S41 CABLE TV (2) : S01-S05, M1-M10, U1-U10 ITALIA VHF : A-H2 (C) UHF : 21-69	PAL, SECAM NTSC4.43, NTSC3 58 (VIDEO IN)
OIRT	B/G/H, D/K	KV-29FS60K GERMAN/NICAM Stereo KV-29FS60R GERMAN Stereo	B/G/H/ VHF : E2-E12 UHF : E21-E69 CABLE TV (1) : S1-S41 D/K VHF : R01-R12 UHF : R21 R 9	PAL, SECAM NTSC4.43, NTSC3 58 (VIDEO IN)
UK	I	NICAM Stereo	UHF : B21-B69	PAL NTSC4.43, NTSC3 58 (VIDEO IN)

MODEL	29FS60A	29FS60B	29FS60D	29FS60E	29FS60K	29FS60R	29FS60U	32FS60A	32FS60B	32FS60D	32FS60E
Power Consumption	149Wh	148Wh	148Wh	148Wh	148W	18W	148Wh	144Wh	149Wh	149Wh	149Wh

[PICTURE TUBE]

KV-29FS60

FD Trinitron
Approx. 72 cm (29 inches)
(Approx. 68 cm picture measured diagonally)
102 degree deflection

[FRONT]

3 Video output - phono jack
3 Audio inputs - phono jacks
3 S Video input - 4 pin DIN
Headphone jack : stereo minijack

KV-32FS60

FD Trinitron
Approx. 82 cm (32 inches)
(Approx. 76 cm picture measured diagonally)
102 degree deflection

Sound output 2x25W (Music Power)
Power requirements 220 - 240V

Dimensions
KV-29FS60 Approx 738 x 588 x 507 mm (w/h/d)
KV-32FS60 Approx 867 x 564 x 558 mm (w/h/d)

Input/Output Terminals

[REAR]

① / ② 21-pin Euro connector (CENELEC standard).

- Inputs for Audio and Video signals.
- Inputs for RGB.
- Outputs of TV Video and Audio signals.

③ / ④ 21-pin Euro connector

- Inputs for Audio and Video signals.
- Inputs for S video.
- Outputs for Video and Audio signals (selectable).

⑤ / ⑥ 21-pin Euro connector

- Inputs for Audio and Video signals.
- Inputs for S video.

External speaker terminals : 2-pin DIN (5)

Weight

KV-29FS60 Approx 55kg
KV-32FS60 Approx 68kg

Supplied accessories

RM-891 Remote Commander (1)
IEC designated R6 battery (2)

Other features

NICAM*, FASTEXT, TOPTXT
* (KV-29FS60B/29FS60E/29FS60K/
29FS60U/32FS60B/32FS60E only)


[RM-891]

Remote control system Infrared control
 Power requirements 3V dc
 2 batteries IEC designation
 R6 (size AA)
 Dimensions Approx 210x56x24mm (w/h/d)
 Weight Approx 110g (Not including battery)

Design and specifications are subject to change without notice.

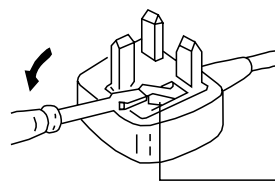
Model Name	KV-29FS60A	KV-29FS60B	KV-29FS60D	KV-29FS60E	KV-29FS60K	KV-29FS60R	KV-29FS60U
Item	KV-32FS60A	KV-32FS60B	KV-32FS60D	KV-32FS60E			
Pal Comb	ON	ON	ON	ON	ON	ON	ON
PIP	OFF	OFF	OFF	OFF	OFF	OFF	OFF
RGB Priority	ON	ON	ON	ON	ON	ON	ON
Woofers Box	OFF	OFF	OFF	OFF	OFF	OFF	OFF
Scart 1	ON	ON	ON	ON	ON	ON	ON
Scart 2	ON	ON	ON	ON	ON	ON	ON
Front in (3)	ON	ON	ON	ON	ON	ON	ON
Scart 4	ON	ON	ON	ON	ON	ON	ON
Projector	OFF	OFF	OFF	OFF	OFF	OFF	OFF
AKB in 16:9 mode	ON	ON	ON	ON	ON	ON	ON
Norm B/G	ON	ON	ON	ON	ON	ON	OFF
Norm I	OFF	ON	OFF	OFF	OFF	OFF	ON
Norm D/K	ON	ON	ON	ON	ON	ON	OFF
Norm AUS	OFF	OFF	OFF	OFF	OFF	OFF	OFF
Norm L	OFF	ON	OFF	OFF	OFF	OFF	OFF
Norm SAT	OFF	OF	OFF	OFF	OFF	OFF	OFF
Norm M	OFF	OFF	OFF	OFF	OFF	OFF	OFF
Teletext	ON	ON	ON	ON	ON	ON	ON
Nicam Stereo	OFF	ON	OFF	ON	ON	OFF	ON
Language Preset	Italia	French	German	Spanish	OIRT	OIRT	English

WARNING (KV-29FS60U 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  mark.

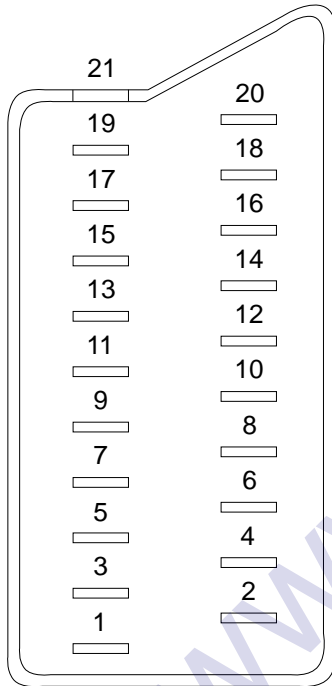
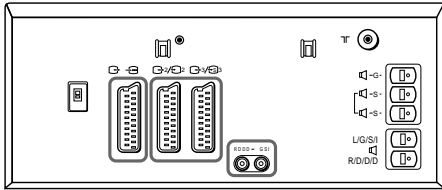
IF THE PLUG SUPPLIED WITH THIS APPLIANCE IS NOT SUITABLE FOR THE OUTLET SOCKETS IN YOUR HOME, IT SHOULD BE CUT OFF AND AN APPROPRIATE PLUG FITTED. THE PLUG SEVERED FROM THE MAINS LEAD MUST BE DESTROYED AS A PLUG WITH BARED WIRES IS DANGEROUS IF ENGAGED IN A LIVE OUTLET SOCKET.

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 a screwdriver blade and replace the fuse.

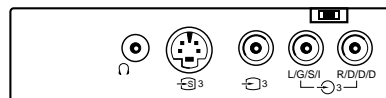
21 pin connector



Pin No	1	2	4	Signal	Signal level
1	○	○	○	Audio output B (right)	Standard level : 0.5V rms Output impedance : Less than 1kohm*
2	○	○	○	Audio output B (right)	Standard level : 0.5V rms Output impedance : More than 10kohm*
3	○	○	○	Audio output A (left)	Standard level : 0.5V rms Output impedance : Less than 1kohm*
4	○	○	○	Ground (audio)	
5	○	○	○	Ground (blue)	
6	○	○	○	Audio input A (left)	Standard level : 0.5V rms Output impedance : More than 10kohm*
7	○	●	●	Blue input	0.7 +/- 3dB, 75 ohms positive
8	○	○	○	Function select (AV control)	High state (9.5 - 2V) : Part mode Low state (0-2V) : TV mode Input impedance : More than 10K ohms Input capacitance : Less than 2nF
9	○	○	○	Ground (green)	
10	○	○	○	Open	
11	○	●	●	Green	Green signal : 0.7 +/- 3dB, 75 ohms, positive
12	○	○	○	Open	
13	○	○	○	Ground (red)	
14	○	○	○	Ground (blanking)	
15	○	-	-	Red input	0.7 +/- 3dB, 75 ohms, positive
16	○	○	○	(S signal Chroma input)	0.3 +/- 3dB, 75 ohms, positive
17	○	●	●	Blanking input (Ys signal)	High state (1-3V) Low state (0-0.4V) Input impedance : 75 ohms
18	○	○	○	Ground (video output)	
19	○	○	○	Video output	1V +/- 3dB, 75ohms, positive sync 0.3V (-3+10dB)
20	○	-	-	Video input	1V +/- 3dB, 75ohms, positive sync 0.3V (-3+10dB)
21	○	○	○	Common ground (plug, shield)	

○ 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 75 ohm, positive Sync.



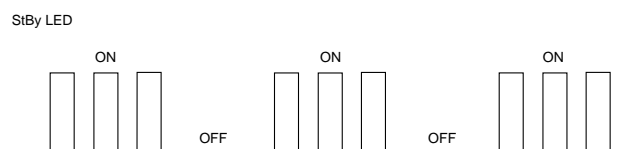
AE-5 SELF DIAGNOSTIC SOFTWARE

The identification of errors within the AE-5 chassis is triggered in one of two ways :- 1: 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 using this method.

Diagnostic Item Description	No of times Standby LED Flashes	Probable cause Location	Detected Symptoms
Power does not turn on	Does not light	Power cord is not plugged in Fuse is burned out	Power does not come on No power is supplied to the TV AC power supply is faulty
+B Overcurrent (OCP)	2 times	H.OUT (Q6803/6804) is shorted. (D Board) Linearity FET (Q6806) is shorted. (D Board) IC6604 Power IC is shorted. (D Board)	Power does not come on Load on power line has shorted
Vertical Deflection stopped	4 times	+15V is not supplied R6835 open (D Board) -15V is not supplied R6834 open (D Board) IC6700 is shorted (D Board)	Vertical deflection pulse has stopped Power line has shorted

ERROR	LED ERROR COUNT
No error	00
Not allowed (may be confused with S rcs response flash!)	01
Over Current Protection	02
Over Voltage Protection	03
Vertical Protection	04
AKB	05
H - Protection	06
Speaker Protection	07
General IIC Line 0 error	08
MEGATEXT	09
NVM	10
Main colour decoder	11
Feature Box	12
D/A converter	13
Backend	14
Multi sound processor	15
Auto Wide	16
External RAM	17

Flash Timing Example : e.g. error number 3



ERROR DETECTION MONITOR

Device acknowledge is used to check IIC errors. Device acknowledge is checked by sending an IIC start sequence during CRT power on. Each device is checked three times, if there is no acknowledge after every attempt, it will be regarded as an error.

There are three steps to check errors

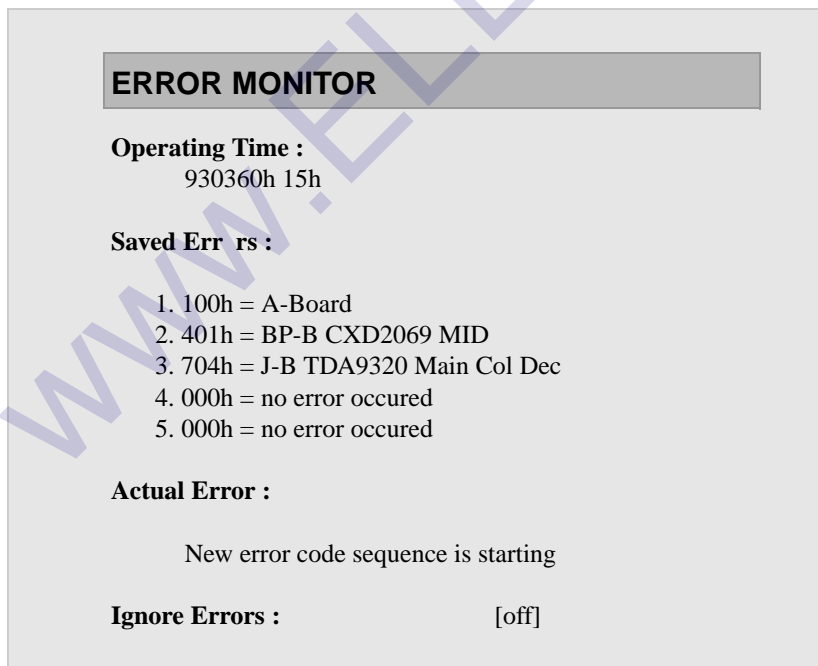
1. IIC line 0
If all devices except the NVM have errors, IIC line 0 error is displayed
2. Board check
If all devices mounted on one board have errors, board error is displayed
3. Each device check
If IIC line error and board error are not detected then the device with an error is displayed

The detected errors can be displayed as follows:

1. Error Monitor Menu
2. Error Reader

1. ERROR MONITOR MENU

The error monitor menu is displayed by selecting TT33. The following menu will be displayed:



2. ERROR READER DISPLAY

The error reader display is connected to the service connector to read actual error codes. The part number for the error reader display is S-188-900-10. Once an error has been detected it will then be displayed on the two digit error reader. The errors displayed refer to the following table :

Error Code	Send Data to Error Reader		Error type	Function
	Data high	Data Low		
00 00h	-	f0h	no device	
Gen.IIC Error				
00 01h	f0h	01h	IIC 0 line	
00 02h	f0h	02h	IIC 1 line	not used
Board Error				
01 00h	f1h	00h	A Board	
02 00h	f2h	00h	B1 Board	
03 00h	f3h	00h	B2 Board	
04 00h	f4h	00h	BP Board	
05 00h	f5h	00h	D1 Board	
06 00h	f6h	00h	E Board	
07 00h	f7h	00h	J Board	
Device Error				
A Board				
01 01h	f1h	01h	CXA1875	Port Expander
01 02h	f1h	02h	TU1326	Main Tuner
01 03h	f1h	03h	TU1350	Sub Tuner
B1 Board				
02 01h	f2h	01h	P83C654	Feature Box
02 02h	f2h	02h	SDA9280	D/A Converter
B2 Board				
03 01h	f3h	01h	SAA4977	Basic
03 02h	f3h	02h	SAA4950	Memory
BP Board				
04 01h	f4h	01h	CXD2069	MID
D1 Board				
05 01h	f5h	01h	CXA8070	Dynamic Conv.
05 02h	f5h	02h	CXA1875	Port Expander
E Board				
06 01h	f6h	01h	CXD2100	Backend
J Board				
07 01h	f7h	01h	CXD2057	Auto Wide
07 02h	f7h	02h	SDA9288	PIP
07 03h	f7h	03h	TDA9320	Sub Colour
07 04h	f7h	04h	TDA9320	Main Colour
07 05h	f7h	05h	CXA1875	Sub Sound
07 06h	f7h	06h	TDA7309	HP Amp
07 07h	f7h	07h	TEA6422DT	Audio SW
07 08h	f7h	08h	MSP3410D	Sound Proc
07 09h	f7h	09h	TC9337F	Sound DSP

TABLE OF CONTENTS

<i>Section</i>	<i>Title</i>	<i>Page</i>	<i>Section</i>	<i>Title</i>	<i>Page</i>
	Warning and Caution	3			
	Self-Diagnostic Function	5			
1. GENERAL			5. DIAGRAMS		
	Overview	9	5-1.	Block Diagram (1)	35
	Installation	10		Block Diagram (2)	40
	Advanced Operations	11		Block Diagram (3)	45
	Teletext	16		Block Diagram (4)	50
2. DISASSEMBLY			5-2.	Circuit Board Location	55
2-1.	Rear Cover Removal	17	5-3.	Schematic Diagrams and	
2-2.	Chassis Assy Removal	17		Printed Wiring Boards	55
2-3.	Service Position	17		* C Board	57
2-4.	U Board Removal	17		* J Board	65
2-5.	J Board Removal	18		* U Board	74
2-6.	J Shield Removal	18		* A Board	81
2-7.	B1 Board Removal	18		* BP Board	85
2-8.	Picture Tube Removal	19		* VM Board	92
	Removal and Replacement of the			* B1 Board	95
	Main-Bracket bottom plates	20		* D1 Board	99
				* F Board	103
3. SET-UP ADJUSTMENTS				* F1 Board	106
3-1.	Beam Landing	21		* M Board	107
3-2.	Convergence	22		* E Board	111
3-3.	Focus	24		* D B ard	116
3-4.	Screen [G2] White Balance	24		* H1 Board	122
4. CIRCUIT ADJUSTMENTS			5-4.	Semi onductors	125
4-1.	Electrical Adjustments	26	5-5.	IC Blocks	128
4-2.	Volume Electrical Adjustments	32	6. EXPLODED VIEWS		
4-3.	Test Mode 2	33	6-1	Chassis	129
			6 2.	Picture Tube	131
			7 ELECTRICAL PARTS LIST		133

CAUTION

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

WARNING !!

AN ISOLATING TRANSFORMER SHOULD BE USED DURING ANY SERVICE WORK TO AVOID POSSIBLE SHOCK HAZARD DUE TO LIVE CHASSIS. THE CHASSIS OF THIS RECEIVER IS DIRECTLY CONNECTED TO THE POWER LINE.

SAFETY-RELATED COMPONENT WARNING !!

COMPONENTS IDENTIFIED BY SHADING AND MARKED **▲** 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

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.

ATTENTION !!

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

ATTENTION AUX COMPOSANTS RELATIFS À LA SÛRETÉ !!

LES COMPOSANTS IDENTIFIÉS PAR UNE TRAME ET PAR UNE MARQUE **▲** SUR LES SCHÉMAS DE PRINCIPE, LES VUES EXPLOSÈES ET LES LISTES DE PIÈCES SONT D'UNE IMPORTANCE CRITIQUE POUR LA SÛRETÉ DU FONCTIONNEMENT, NE LES REMPLACER QUE PAR DES COMPSANTS SONY DONT LE NUMÉRO DE PIÈCE EST INDIQUÉ DANS LE PRÉSENT MANUEL OU DANS DES SUPPLÈMENTS PUBLIÈS PAR SONY.

SECTION 1 GENERAL

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

Overview

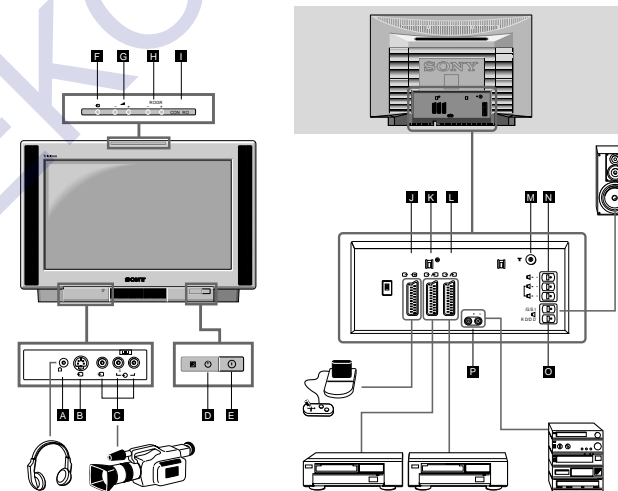
i This section briefly describes the buttons and controls on the TV set and the Remote Control. Open the flaps at the front and back of his Instruction Manual for detailed illustrations. For more information refer to the page numbers given in the overview.

Remote Control

Symbol	Description	See page
1 TV/⏻	TV: standby mode on/off	32
2 [FD]	TV: on-screen display Teletext: index page	32 42
3 [Source]	Selecting of input source	44
4 [Freeze]	Teletext: Freezing a subpage	42
5 [PIP]	PIP: Swapping the screens	41
6 [PIP]	PIP: Selecting the source	41
7 [PIP]	PIP: Switching on and off	41
8 1, 2, ..., 9, 0	Number buttons	32
9 [Back]	Back to the channel last selected	32
10 [Format]	Selecting of screen format	32
11 [No Fun]	No function on this set	
12 [Joystick]	Joystick for menu selection Press OK to confirm	31
13 MENU	Switching on and off of Menu system	31
14 PROGR +/-	TV: Channel selection up- and downwards Teletext: Page selection up-and downwards	32 42
15 [Vol +/-]	Volume control	32
16 [Picture]	Picture mode	32
17 [Equaliser]	Equaliser mode	32
18 [2-Digit]	Selection of double digit channel numbers	32
19 [Freeze]	Freezing of TV picture	3
20 [No Fun]	No function on this set	
21 [Teletext]	Teletext: Switching on TV: Selecting of TV mode Teletext: Switching off	2 32 42
22 [Mute]	Muting of sound on/off	32
23 VIDEO/⏻	VCR: Standby mode	45
Buttons under cover		
24 [Time]	Displaying of the time	32
25 CH +/-	VCR operation	45
VTR 1 2 3 4 MDP	Video equipment selector	
[VCR]	Buttons for VCR operation	
26 [Reset]	Resetting of picture setting	32

TV-set – front and top

Symbol	Description	See page
A [Headphone]	Headphone jack	54
B [S-Video]	S-video input jack	52
C [Phono]	Phono video / audio inputs	52
D [Standby]	Indicator for standby mode	37
E [Power]	Power switch	37
F [Source]	Selecting input source	52
G [Vol +/-]	Volume control	37
H PROGR	Channel selection up- and downwards	37
I CONTROL	Control panel: Switching on/off	37



TV-set – rear

Symbol	Description	See page
J [Euro 1]	21-pin Euro connector (Scart)	52
K [Euro 2]	21-pin Euro connector (Scart)	52
L [Euro 3]	21-pin Euro connector (Scart)	52
M [Aerial]	Aerial socket	35
N [Speaker]	External speaker terminals (Centre, Surround)	34
O [Speaker]	Left and right speaker terminals	34
P [Phono]	Audio phono jacks	54

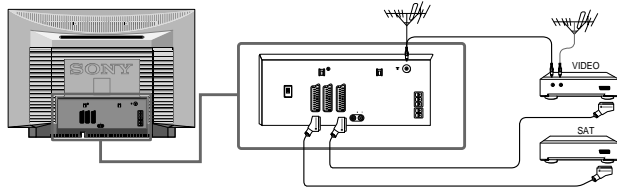
Installation

B Connecting the TV Set

- 1 Connect the TV set to the mains socket (220-240 V. AC, 50 Hz).
- 2a Connect a conventional aerial cable to the socket marked **T** **M** on the rear of the TV set or
- 2b Connect your Satellite Receiver to one of the Scart connectors **J** **K** **L** of the TV set.

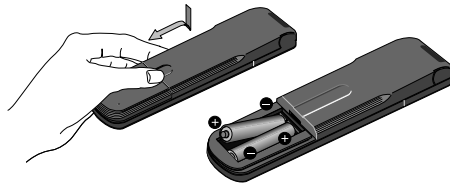
i When connecting a VCR to your TV set:

We recommend that you use the preset function Manual Programme Preset (page 38) to tune in the VCR signal to programme position 0.



C Inserting the Batteries into the Remote Control

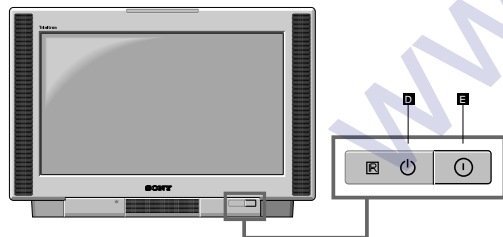
- A** Make sure to insert the batteries using the correct polarities. Dispose of exhausted batteries according to your local regulations.



D Switching on the TV Set

- Press the switch **Ⓚ** **E** at the front of the TV set.

- i** If the standby mode indicator **Ⓚ** **D** on the TV is lit, press TV I/Ⓚ **i** on the Remote Control to switch on the TV set.

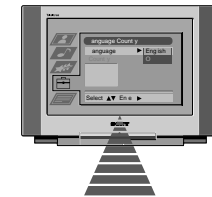


Step 2 Basic Presetting

A The Menu System

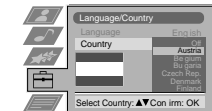
- i** Your TV uses an on-screen menu system to guide you through the operations. Use the following buttons on the Remote Control to operate the menu system:

- Press MENU **Ⓚ** to switch the menu on and off.
- Use **⏪**, **⏩**, **⏴**, **⏵** of the joystick **Ⓚ** to select within the menu system.
- Press OK to store.
- When menu is switched off: Press **⏪** to return to the last menu screen.



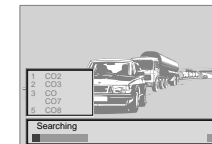
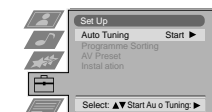
B Selecting Language and Country

- 1 Press the MENU **Ⓚ** button.
 - 2 The menu Language/Country appears on the screen. Push the joystick **Ⓚ** to **▶**. Push the joystick **Ⓚ** to **▼** to select the language. Press OK **Ⓚ**.
 - 3 The menus appear in the selected language. Push the joystick **Ⓚ** to **▶**.
 - 4 Push the joystick **Ⓚ** to **▼** to select Country. Push the joystick **Ⓚ** to **▶**.
- i** Select Off if you wish an automatic tuning without ACI (fast presetting with a given channel sequence).
 - Confirm by pressing OK **Ⓚ**.
 - A** The menu Auto Tuning appears.



C Automatic Tuning In of Channels

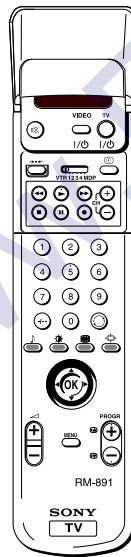
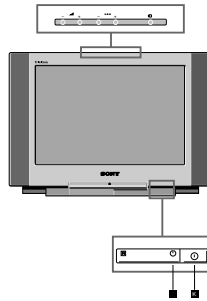
- Push the joystick **Ⓚ** to **▶** for more than 2 sec.
- A** After all available channels are stored, the TV goes back to the programme position with which you started the automatic tuning. Your TV is now ready for use.
 - ♦ To stop the automatic tuning: Press OK **Ⓚ**.
 - ♦ If you wish to change the sequence of the stored channels, go to Sorting Programme Positions in Advanced Presetting.
 - ♦ If you need to change or repeat the tuning afterwards (e.g. when you move house) : select the menu Auto Tuning in the Set Up **Ⓚ** menu.



Step 3 Basic TV operation

i This section explains the most important functions for the daily use of your TV set. When using the control panel on the top of the TV set, first press CONTROL **1**, then **2**, **3** or **4**.

Function	Operation
Switching on/off	<ul style="list-style-type: none"> Press 1 on the TV set. To save energy, we recommend to switch off the TV completely when set is not in use.
Switching off temporarily (Standby mode)	<ul style="list-style-type: none"> Press TV I/O 1. TV is now in standby mode. Indicator 1 lights up. After 15 min. without any TV signal and no pressing of a button, the TV automatically goes into standby mode.
Switch on from standby mode	<ul style="list-style-type: none"> Press TV I/O 1, PROGR +/- 2 or any number button 3.
Selecting channels	<ul style="list-style-type: none"> Press PROGR +/- 2 or the number buttons 3. For a double digit number first press +/- 2, then the two number buttons.
Using the Channel overview	<ul style="list-style-type: none"> Press OK 4. Push to 5 or 6 to select a channel, push to 7 to confirm.
Going to the channel last selected	<ul style="list-style-type: none"> Press 8.
Adjusting the volume	<ul style="list-style-type: none"> Press 9 + or - 10.
Muting the sound	<ul style="list-style-type: none"> Press 11 to switch sound off or on.
Selecting Equaliser mode (See also page 39)	<ul style="list-style-type: none"> Press 12 repeatedly 13 to select one of the following modes: Personal, Vocal, Jazz, Rock, Pop or Flat
Selecting Picture mode (see also page 38)	<ul style="list-style-type: none"> Press 14 repeatedly 15 to select one of the following modes: Personal, Movie or Live.
Freezing the picture	<ul style="list-style-type: none"> Press 16 if you wish to make a note of an information, e.g., a telephone number. Press again to return to the normal TV screen.
Changing the screen format	<ul style="list-style-type: none"> Press 17 repeatedly to select 4:3 or 16:9 (imitation of wide screen format).
Resetting picture/sound settings to factory levels	<ul style="list-style-type: none"> Open the cover of the Remote Control. Press 18.
Displaying on-screen indications	<ul style="list-style-type: none"> Press 19 to switch indications on or off.
Displaying the time (only when teletext is broadcast)	<ul style="list-style-type: none"> Open the cover of the Remote Control. Press 20 to switch time on or off.
Using Teletext (see also page 42)	<ul style="list-style-type: none"> Press 21 to switch on. Press 22 switch off. Select a page using the number buttons 23. E.g. for page 125 press 1, 2 and 5. Select the index page by pressing 24.
Viewing the input signal of a connected device (see also page 44)	<ul style="list-style-type: none"> Press 25 repeatedly to select the desired input source. Press 26 to return to the TV picture.



Advanced Operation

Advanced Presetting

Sorting of Programme Positions

i After having used Automatic Tuning channels you may wish to rearrange the order of the channels.

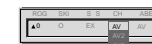
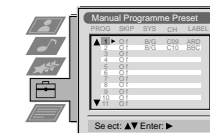
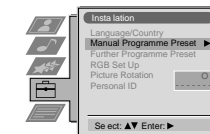
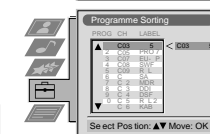
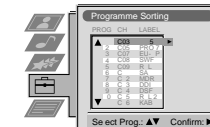
- Press MENU. Select the symbol using **5** to **7**.
- Select Programme Sorting using **5**. Push to **7** to enter.
- Select the programme position of the channel you wish to sort using **6** or **7**. Push to **7** to enter.
- Move the channel to the new programme position using **6** or **7**. Store by pressing **8** OK.
- The channel is now at the new position. The other programme positions move accordingly.
- To sort other programme positions repeat steps 3 to 4.
- Press MENU to return to the normal TV screen.

Manual Tuning In of Channels

i Use this function to preset channels or a video input source one by one to programme positions of your choice.

- Press MENU. Select the symbol using **5**. Push to **7**.
- Select Installation using **5**. Push to **7** to enter. Select Manual Programme Preset using **5**. Push to **7** to enter.
- Select the programme position by pushing to **6** or **7**. Push twice to **7**. The column SYS is highlighted.
- Select the TV system using **6** or **7**. Push to **7** to enter. Available TV systems are B/G for western European countries, D/K for eastern European countries, EXT for a video input source (please go to step 5c after selecting EXT)
- Select your method for the channel tuning using **6** or **7**. Push to **7** to enter. You have the choice between C for a terrestrial channel, S for a cable channel, F for direct frequency input.


- Direct Channel Input - S, C or F**
 - For channel numbers input a two digit number, for the channel frequency a three digit number.
 - Select the two or three digits by using the number buttons 0 to 9.
 - To start the search and to store the channel, press OK.
 - To preset other channels repeat steps 3 to 5a.
 - Channel search (SEARCH)**
 - Use Search if you do not know the channel number or frequency
 - Start the search for the next available channel by pushing to **7**.
 - Store the channel by pressing OK or continue the search by pushing again to **7**.
 - To search for other channels repeat steps 3 to 5b.
 - For video input sources (EXT)**
 - Select the Video Input source using **6** or **7**.
 - Store your selection by pressing OK.
 - To allocate other sources repeat steps 3 to 5c.
- Press MENU to return to the normal TV screen.

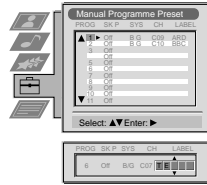


Advanced Presetting

Captioning a Station Name


i During presetting the channels are usually labelled automatically. You can, however, individually name a channel or a video input source.

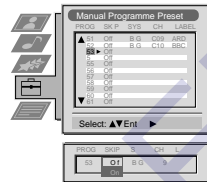
- 1 Press MENU. Select the symbol  using **▼**. Push to **▶**.
- 2 Select Installation using **▼**. Push to **▶** to enter. Select Manual Programme Preset using **▼**. Push to **▶** to enter.
- 3 Select the programme position of the channel or the video source you wish to label by pushing to **▼** or **▲**. Push repeatedly to **▶** until the first element of the position LABEL is highlighted.
- 4 Select a number, a letter, + or a blank using **▲** or **▼**. Push to **▶** to confirm. Select the other four characters in the same way.
- 5 Store your selection by pressing OK.
- 6 To label other channels or video sources repeat steps 3 to 5.
- 7 Press MENU to return to the normal TV screen.



Skipping of Programme Positions

i In case of 100 programme positions there may be unused positions, which you can skip in the menu Manual Programme Preset. When changing channels with the **PROGR +/-** buttons they do then not appear. You can, however, still select them using the number buttons.

- 1 Press MENU. Select the symbol  using **▼**. Push to **▶**.
- 2 Select Installation using **▼**. Push to **▶** to enter. Select Manual Programme Preset using **▼**. Push to **▶** to enter.
- 3 Select the programme position you wish to skip by pushing to **▲** or **▼**. Push to **▶** to enter.
- ⏏** The column SKIP is highlighted.
- 4 Select ON using **▼**.
- 5 Store by pressing OK.
- 6 To skip other programme positions repeat steps 3 to 5.
- 7 Press MENU to return to the normal TV screen.




Advanced Presetting

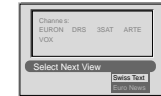
Selecting your NextView Provider*

*depending on availability of service

i NexTVView is an on-screen electronic programme guide, providing you with programme information on many broadcasters. Your TV set automatically selects a NexTVView provider. This provider will be available about 30 minutes after the channel tuning. You can however, also select a provider of your choice. See Using NextView on page 48 for information on the operation of NexTVView.

⚠ When using a satellite receiver make sure to connect the receiver to the aerial socket of your TV set.

- 1 Press MENU. Select the symbol  using **▼**. Push **▶** to enter.
- 2 Select Select NextView using **▼**. Push to **▶** to enter.
- ⏏** A list is displayed containing all available NexTVView providers and the supported broadcasters.
- 3 Select the desired NexTVView provider by using **▲** or **▼**. Store by pressing OK.
- 4 Press MENU to return to the normal TV screen.



Using of Further Programme Preset


i Using the menu Further Programme Preset you can

individually attenuate the strength of a channel signal in case of a strong local aerial signal (striped picture).

individually adjust the volume level of each channel.

improve the quality of a weak channel (picture or sound distortions) with manual fine tuning.

preset the AV output for programme positions of those channels with scrambled signals (e.g. from a Pay TV decoder). In this way a connected Smartlink VCR records the unscrambled signal.

Press MENU. Select the symbol  using **▼**. Push **▶** to enter.

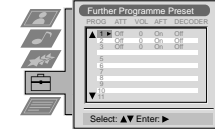
- 2 Select Installation using **▼**. Push **▶** to enter. Select Further Programme Preset using **▼**. Push **▶** to enter.
- 3 Select the programme position of the desired channel by pushing **▲** or **▼**. Push **▶** repeatedly to select:
ATT (RF attenuator), VOL (Volume Offset), AFT (Automatic Fine Tuning) or DECODER.

⏏ The selected item changes colour.

- ATT**
Push **▼** to select ON. Store by pressing OK.
Repeat steps 3 and 4a if you wish to attenuate other channels.
- VOL**
Push **▲** or **▼** to adjust the volume level (range -7 to +7) of the channel. Store by pressing OK.
Repeat steps 3 and 4b if you wish to adjust the volume level of other channels.
- AFT**
Push **▲** or **▼** to fine tune the channel (range -15 to +15). Store by pressing OK.
Repeat steps 3 and 4c if you wish to fine tune other channels.
- DECODER**
Push to **▲** or **▼** to select AV1 (Euro AV socket 1) or AV2 (Euro AV socket 2) as output for the video source on this programme position. Store by pressing OK.
Repeat steps 3 and 4d if you wish to preset the AV output of other video sources.

⚠ Should you use Auto Tuning afterwards, this setting will be cancelled.

- 5 Press MENU to return to the normal TV screen.

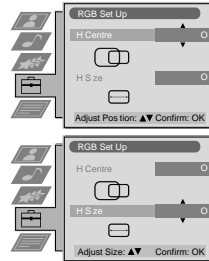


Advanced Presetting

Adjusting the Picture Geometry for an RGB Source

i When connecting an RGB source such as a Sony playstation you may need to readjust the picture geometry.

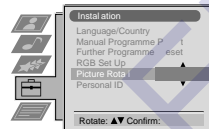
- 1 Select the connected RGB source by pressing repeatedly.
- 2 Press MENU. Select the symbol using \blacktriangledown . Push to \blacktriangleright .
- 3 Select Installation using \blacktriangledown . Push to \blacktriangleright to enter. Select RGB Set Up using \blacktriangledown . Push to \blacktriangleright to enter.
- 4 Select H Centre by pushing to \blacktriangleright . Adjust the centre of the picture (range from -10 to +10) using \blacktriangle or \blacktriangledown . Store by pressing OK.
- 5 Select H Size using \blacktriangledown . Push to \blacktriangleright to enter. Adjust the horizontal coordinates (range from -10 to +10) using \blacktriangle or \blacktriangledown . Store by pressing OK.
- 6 Press MENU to return to the normal TV screen.



Adjusting the Picture Rotation

i Because of the earth magnetism the picture might slant. In this case you can readjust the picture.

- 1 Press MENU. Select the symbol using \blacktriangledown . Push to \blacktriangleright .
- 2 Select Installation using \blacktriangledown . Push to \blacktriangleright to enter. Select Picture Rotation using \blacktriangledown . Push to \blacktriangleright to enter.
- 3 Adjust the Picture Rotation (adjusting range -5 to +5) by pushing to \blacktriangle or \blacktriangledown . Store by pressing OK.
- 4 Press MENU to return to the normal TV picture.

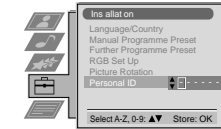


Advanced Presetting

Inputting Your Personal ID

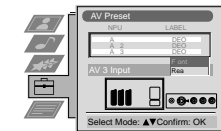
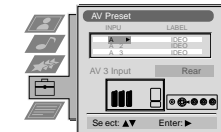
i You can programme your TV with a safety code, so that you can be traced if your TV is stolen and recovered. This code can only be input once! Make sure to write it down in this Instruction Manual.

- 1 Press MENU. Select the symbol using \blacktriangledown . Push to \blacktriangleright .
- 2 Select Installation using \blacktriangledown . Push to \blacktriangleright to enter. Select Personal ID using \blacktriangledown . Push to \blacktriangleright to enter.
- 3 a Select the first of a total of 11 characters (letter, number, + or a blank) by using \blacktriangle or \blacktriangledown .
b Push to \blacktriangleright to go to the next character.
c Repeat a and b for all characters.
4 Store by pressing OK.
- 5 Press MENU to return to the normal TV screen.



Presetting and Labelling of Input Sources

- 1 Press MENU. Select the symbol using \blacktriangledown . Push to \blacktriangleright .
- 2 Select AV Preset using \blacktriangledown . Push to \blacktriangleright to enter.
- 3 Select the desired AV input (AV 1, 2 or 3) using \blacktriangle or \blacktriangledown . Push to \blacktriangleright to enter.
- i** After each step you have the choice between memorizing (press OK) or going to the next item (push to \blacktriangleright).
- 4 To label the source:
 - a Push to \blacktriangleright to select Label.
 - b Select the first character using \blacktriangle or \blacktriangledown . Push to \blacktriangleright to confirm.
 - c Repeat step b to select the other 4 characters.
 - d Store by pressing OK.
- 5 Repeat steps 3 to 4 for the other AV inputs.
- 6 Selecting the AV3 Input Source:
 - a In case of AV3 you have the choice between the front AV3 sockets **B/C** or the rear Scart 3 **1** connector.
 - b Push to \blacktriangledown to select AV3 Input. Push to \blacktriangleright to enter.
 - c Select Front or Rear using \blacktriangle or \blacktriangledown .
 - d Store by pressing OK.
- 7 Press MENU to return to the normal TV screen.



Advanced TV operation

Adjusting Picture and Sound

i Picture and sound are adjusted at the factory. You can however, adjust them individually.

- 1 Press MENU.
Select the symbol for Picture or for Sound using **▲** or **▼**. Push to **▶** to enter.

The menu Picture or Sound Control is displayed.

- 2 Select the desired item using **▲** or **▼**. Push to **▶** to enter.
- 3 Adjust the selected item using **▲**, **▼**, **▶** and **◀**. Press OK to store.

i Refer to the tables on this and the following page for more information.

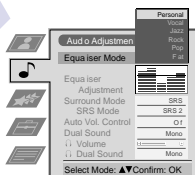
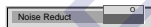
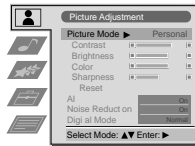
- 4 Repeat steps 2 and 3 to adjust other items.
- 5 Press MENU to return to the normal TV screen.

Picture Control

Item	Effect/Operation
Picture Mode	▼ Live (for live broadcasts) Personal (for individual settings) ▲ Movie (for movie broadcasts)
Contrast	Less ◀ ▶ More
Brightness*	Darker ◀ ▶ Brighter
Colour*	Less ◀ ▶ More
Hue**	Reddish ◀ ▶ Greenish
Sharpness*	Softer ◀ ▶ Sharper
Reset	Resets picture to the factory preset levels
AI (Artificial Intelligence)	▲ Off: normal ▼ On: Automatic optimization of contrast level according to the TV signal
Noise Reduction	▲ Off: Normal ▼ On: Reduces picture noise in case of a weak broadcasting signal
Digital Mode	▼ Normal: 100 Hz Digital+: 100 Hz plus line flicker reduction ▲ Advanced: Digital+ plus smoothing of motions

* Only if Personal is selected in Picture Mode

** Only available for NTSC colour signal (e.g. US video tapes)

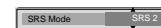
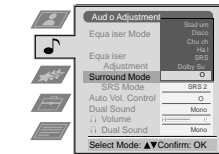
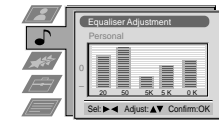


Advanced TV operation

Sound Control (continued)

Item	Effect/Operation
Equaliser adjustment	i You can adjust the mode selected in Equaliser mode by cutting and boosting of 5 selected frequency bands. ⚠ Only the changes made in Personal can be stored, the others return to factory setting. <ul style="list-style-type: none"> • Select the desired bar using ▶ or ◀, adjust using ▲ and ▼. Press OK to store
Surround mode	▲ Off: Norm D lby Sur (Pro gic Tru Surround **) i Sele when ceiving Dolby broadcast. A ter th broa return to off, otherwise the V automatically selects Dolby for any stereo oadcast an the sound will be distorted. SR Hall Church Disco Stadium
SRS Mode*	▲ SRS 1 *on when SRS 1 d SRS 2 in S round mode ▼ SRS 3
Auto Volume Control	▲ On: volume level of the channels will stay the same independent of the broadcast signal (e.g. in case of advertisements) ▼ Off: volume level changes according to the broadcast signal
Dual Sound	For a bilingual broadcast: ▼ A for channel 1 ▲ B for channel 2 For a stereo broadcast: ▼ Mono ▲ Stereo
Headphones	Less ◀ ▶ More
Volume	Less ◀ ▶ More
Dual Sound	For a bilingual broadcast: ▼ A for channel 1 ▲ B for channel 2 PAP i When PAP is switched on, you can additionally select the PAP sound for the headphones

** TruSurround is a trademark of SRS Labs, Inc. SRS and the SRS symbol are registered trademarks of SRS Labs, Inc. in the Unites States and selected foreign countries. SRS and TruSurround are incorporated under license from SRS Labs, Inc. and is protected under United States Patent Nos. 4,748,669 and 4,841,572 with numerous additional issued and pending foreign patents. Purchase of this product does not convey the right to sell recordings made with the TruSurround technology.



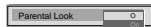
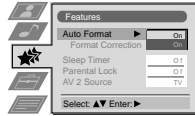
Advanced TV operation

Using the Features Menu

- 1 Press MENU. Select the symbol using **▼**. Push **▶** to enter.
- 2 Select the desired menu item using **▼**. Push **▶** to enter.
- 3 Select the desired setting using **▲** or **▼**.
- 4 Store by pressing OK.
- 5 Press MENU to return to the normal TV screen.

Features

Item	Effect/Operation
Auto Format* *only for aerial signal	▲ On: Automatic selection of the screen format ▼ Off: Normal mode
Format Correction* *only if Auto Format is on	▲ On: Smart mode is selected automatically for 4:3/14:9 broadcasts ▼ Off: 4:3/14:9 is selected
Sleep Timer	i You can select a time period after which the TV switches itself into standby mode ▲ Off 10 min. 20 min. : ▼ 90 min.
Parental Lock	▼ Off: Normal mode ▲ On: TV can only be switched on out of standby-mode using the Remote Commander, the buttons on the TV do not work.
AV2 Source	i You can select the source to be output from the Scart connector / 2. In this way you can record from this socket while watching another source. ▲ TV audio/video signal from the aerial AV1 audio/video signal from Scart 1 AV2 audio/video signal from Scart 2 ▼ AV3 audio/video signal from front or rear connectors



Using Multi PIP

- i** Multi PIP (picture in picture) mode displays a succession of 12 still picture and a 13th that is live. You can manually select which channel you wish to watch, either full-screen or in the PIP mode.
- 1 Press .
 - i** Now 13 programme positions appear on the screen, with the current channel in the centre.
 - 2 Press PROGR +/- repeatedly to get the next or the preceding 12 programme positions.
 - 3 Use **▲**, **▼**, **◀** and **▶** to move within the 13 displayed channels. Press OK to select the framed channel.
 - i** The selected channel moves to the centre.
 - 4 When the centre channel is framed, press OK to get the channel full screen or press to return to the normal TV mode.

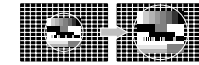
Advanced TV operation

Using Screen Mode

- i** When Auto Format in the Features menu is preset to »On« and a format signal is being transmitted, the TV set automatically selects the detected screen format. Screen mode, however, lets you select the screen format of your choice.
- Press repeatedly to get one of the following formats:
 - Smart imitation of wide screen effect for 4:3 broadcasts, parts of the top and bottom of the picture are cut off
 - 4:3 conventional 4:3 aspect ratio, full picture information
 - 14:9 compromise between 4:3 and 16:9 aspect ratios
 - Zoom imitation of wide screen effect for letterboxed movies
 - Wide for 16:9 broadcasts
 - i** In Zoom and 14:9 modes parts of the top and the bottom of the screen are cut off. Using **g** **▲** and **◀** you can adjust the position of the image onscreen to e.g. read subtitles. Press OK to confirm.



Smart



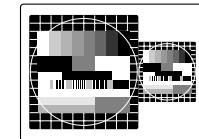
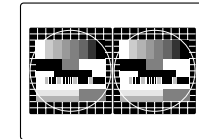
Zoom



Wide

Operating PAP (Picture and Picture)

- i** PAP divides the screen into two for watching two channels simultaneously (with a video source on one if you want). The sound of the left screen is on the TV loudspeakers, the sound of the right screen is selectable via headphones.
- Switching PAP on and off**
- Press once to display the screens in format 4:3 and twice to switch PAP off.
- Selecting a PAP source**
- 1 Press .
 - i** The symbol appears in the right screen.
 - 2 Select the desired source using the number buttons (for a TV channel) **7** or **8** (for a video source).
- Swapping screens**
- Press to swap the two screens.
- Zooming the screens**
- Using the joystick buttons **◀** and **▶** you can change the size of the two screens. When you press **▶** repeatedly the right screen gets bigger, while the left screen gets smaller.



Teletext

Most TV channels broadcast information via teletext. The index page of the teletext service (usually page 100) gives you information on how to use the service.

⚠ Make sure to use a TV channel with a strong signal, otherwise there may be Teletext errors.

Direct Access Functions

Switching Teletext on and off

- 1 Select the TV channel which carries the teletext service you want to view.
- 2 a Press **Ⓜ** once for Picture and Teletext (P&T).
📺 The screen is divided in two, with the TV channel in the right corner and the Teletext display on the left.
i P&T mode: Press **Ⓜ/Ⓜ** to change the channel of the TV screen. Push **⬅** or **➡** to change the size of the TV screen. Press **Ⓜ/Ⓜ** again to resume normal teletext reception.
 b Press **Ⓜ** twice to get Teletext only.
 c Press **Ⓜ** three times for Mix mode.
📺 The TV broadcast and the Teletext display are overlapped.
- 3 Press **□** or press **Ⓜ** a fourth time to switch teletext off.



Selecting a Teletext Page

Direct Page Selection

- Input the three digits of the page number using the number buttons **7**.
- i** If you have made a mistake:
Type in any three digits, then re-enter the correct page number.

Page Catching

- 1 Select a teletext page which has several page numbers on it (e.g., the index page).
Ⓜ Page Catching is displayed.
- 2 Press **OK**.
- 3 Select the desired page number using **▲** or **▼** and press **OK**.
📺 The requested page is displayed after some seconds.



Selecting the next or the preceding page

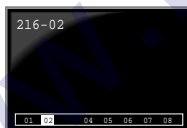
- Press **Ⓜ** (Page +) or **Ⓜ** (Page -).

Selecting the index page

- Press **Ⓜ**.

Selecting a subpage

- i** A teletext page may consist of several subpages. In this case an information line is displayed, showing the number of subpages.
- Select the mode by pushing **▲**. Select the subpage by using **▲** or **▼**.



Freezing a Teletext subpage

- 1 Press **Ⓜ** or **Ⓜ**.
- 📺** The symbol **Ⓜ** is displayed and the subpage is not updated.
- 2 Press **Ⓜ** to resume normal teletext reception.

Using Fastext*

*depending on availability of service

- i** Fastext lets you access pages with one button 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 buttons **9**, **10**, **11**, **12** on the Remote Control.
- Press the coloured button which corresponds to the colour in the colour-coded menu.



Teletext

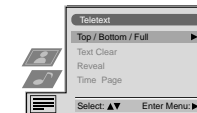
Using the Teletext Menu

- i** This TV set has a menu-guided teletext system. When teletext is switched on you can use the joystick buttons to operate the teletext menu.
- Select the menu functions as follows:

- 1 Press **MENU**.
- 📺** The Teletext menu is superimposed onto the teletext display.
 2 Select the teletext function using **▲** or **▼**. Push **▶** to enter.

Top/Bottom/Full

- i** For convenient reading of a Teletext page you can enlarge it.
- 📺** After having selected the function sub menu **Top ▲ Bottom ▼ Full OK** is displayed.
- Push **▲** to enlarge the upper half of the screen, push **▼** to enlarge the lower half. Press **OK** to resume the normal size.
 Press **Ⓜ** to enter the normal Teletext operation.



Top: ▲ Bottom: ▼ Full: OK

Text Clear

- i** After having selected the function, you can watch a TV channel while waiting for a requested Teletext page. As soon as the page is available, the symbol **Ⓜ** changes colour.
- **Ⓜ** view the page.



Reveal

- i** Some teletext pages contain hidden information (e.g., for a quiz), which you can reveal.
- 📺** After having selected the function, the hidden information appears.
- Press **Ⓜ** to resume the normal Teletext operation.

Time Page*

*depending on availability of service

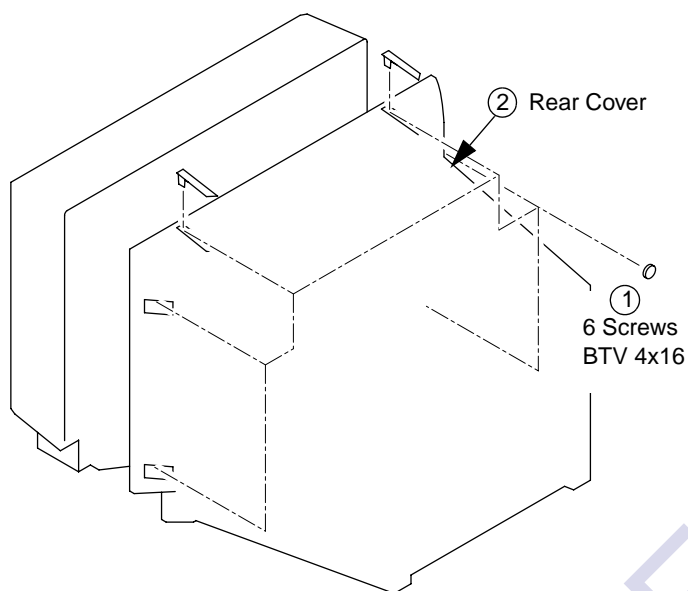
- i** You can call up a time-coded page - such as an alarm page - at a time specified by you.

- 📺** After having selected the function a sub menu is displayed.
- 1 Select **On** using **▲** or **▼**. Push **▶** to enter.
 - 2 Enter the three digits of the desired page using the number buttons **7**.
 - 3 Enter the four digits of the desired time using the number buttons **7**.
 - 4 Press **OK** to store.
- 📺** The time is displayed in the top left-handed corner of the screen. At the requested time the page is displayed.

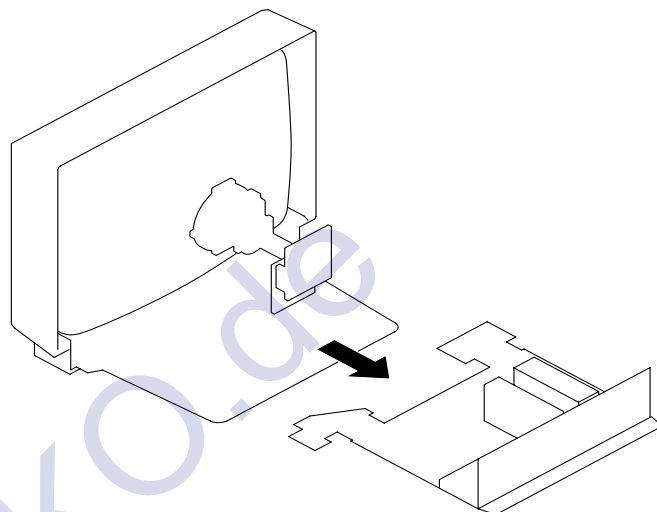


SECTION 2 DISASSEMBLY

2-1. REAR COVER REMOVAL



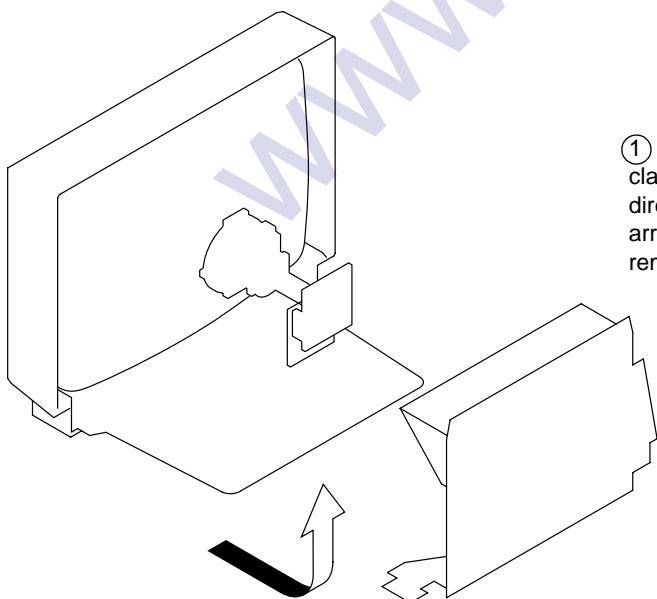
2-2. CHASSIS ASSY REMOVAL



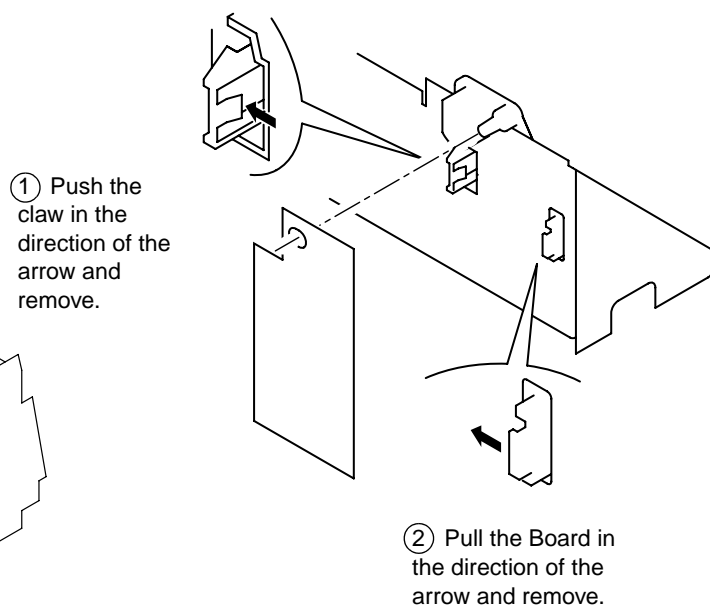
CAUTION:

Take care not to damage the C Board when removing or refitting the rear cover.

2-3. SERVICE POSITION

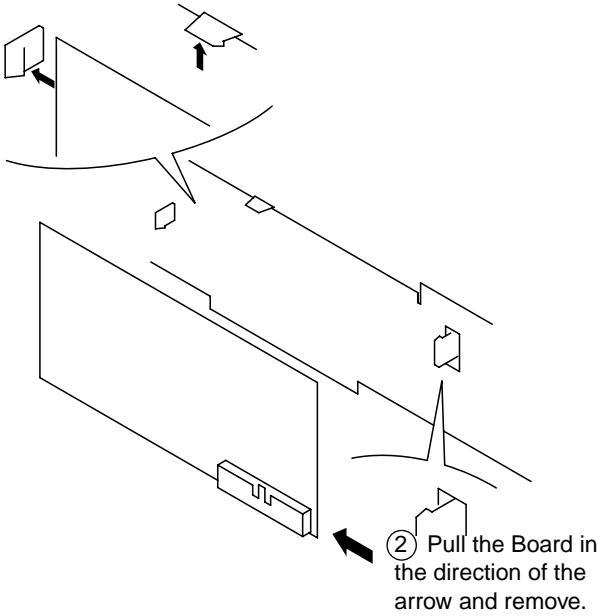


2-4. U BOARD REMOVAL



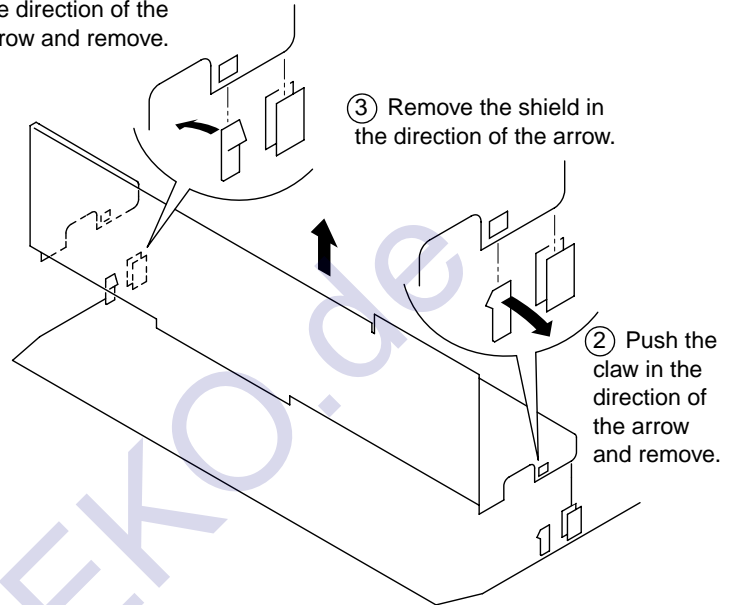
2-5. J BOARD REMOVAL

- ① Push the claw in the direction of the arrow and remove.



2-6. J SHIELD REMOVAL

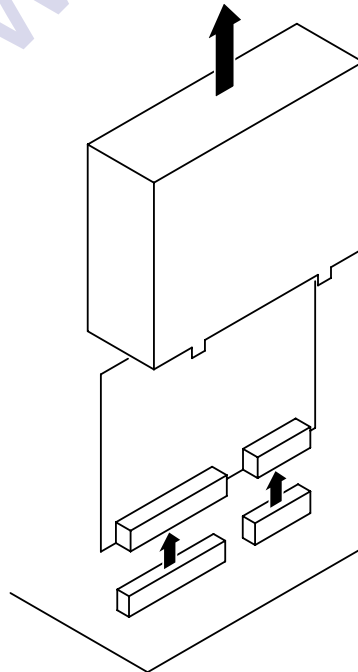
- ① Push the claw in the direction of the arrow and remove.



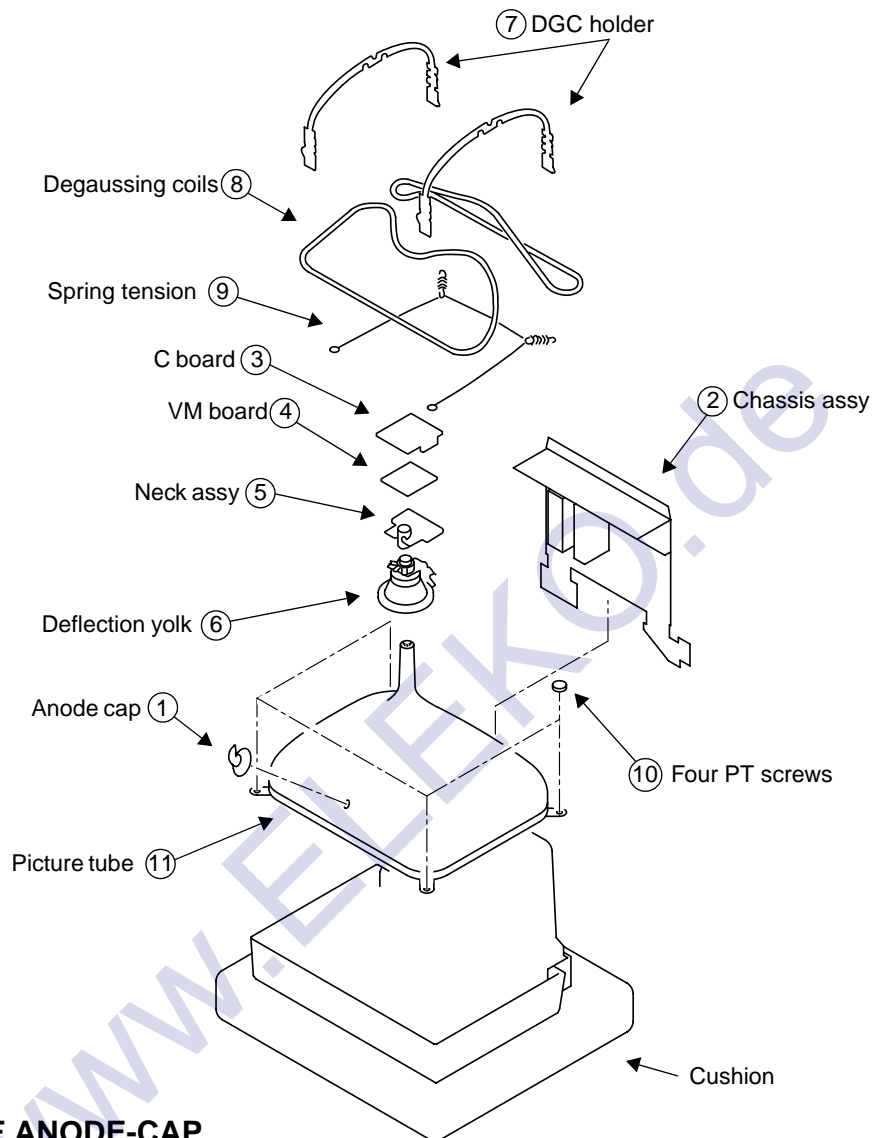
2-7. B1 BOARD REMOVAL

NOTE

All other boards are removed in a similar manner to those shown



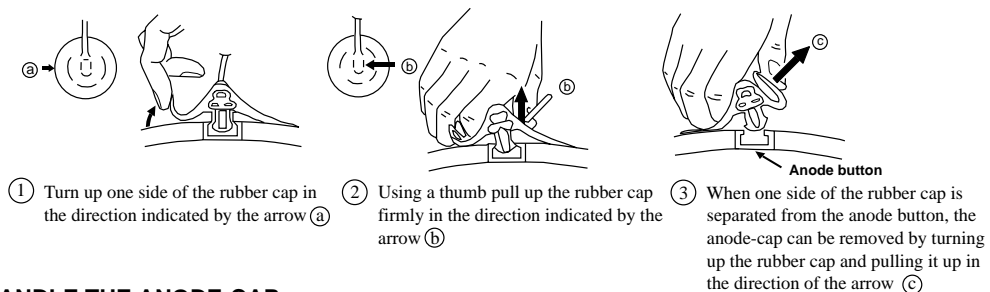
2-8. PICTURE TUBE REMOVAL



• REMOVAL OF ANODE-CAP

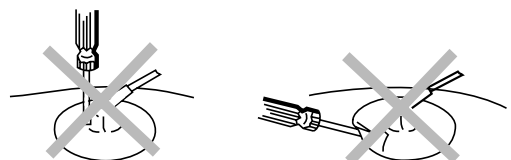
Note : Short circuit the anode of the picture tube and the anode cap to the metal chassis, CRT shield or carbon paint on the CRT, after removing the anode.

* REMOVING PROCEDURES.



• HOW TO HANDLE THE ANODE-CAP

- ① To prevent damaging the surface of the anode-cap do not use sharp materials.
- ② Do not apply too great a pressure on the rubber, as this may cause damage to the anode connector.
- ③ A metal fitting called a shatter hook terminal is fitted inside the rubber cap. Do not turn the rubber foot over excessively this may cause damage if the shatter hook sticks out.



REMOVAL AND REPLACEMENT OF THE MAIN-BRACKET BOTTOM PLATES.

(1) REMOVING THE PLATES

In the event of servicing being required to the solder side of the D Board printed wiring board, 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 indicated by arrows.

Note : There are 4 plates fitted to the main bracket and secured by 4 gates.
Only remove the necessary plate to gain access to the printed wiring board.



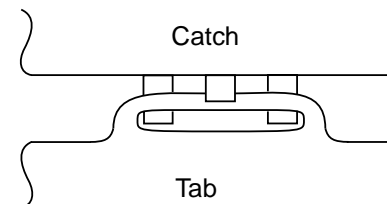
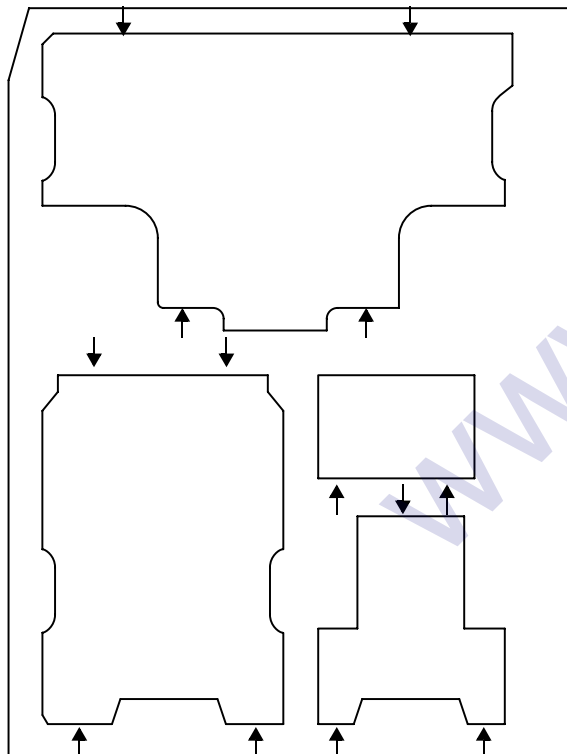
For safety reasons, on no account should the plates be removed and not refitted after servicing.

(2) REFITTING THE PLATES

Because the plates differ in size it is important that the correct plates are refitted in their original location.

Please note that the plates need to be rotated 180 degrees from the cut position to allow the tabs to be fitted in the catch positions.

20



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 the following settings:

Contrast	normal
Brightness	normal

Carry out the following adjustments in this order:

- 3-1. Beam Landing
- 3-2. Convergence
- 3-3. Focus
- 3-4. White balance

- Note:** Test equipment required
1. Color bar/pattern generator.
 2. Degausser.
 3. Digital multimeter.
 4. Oscilloscope.

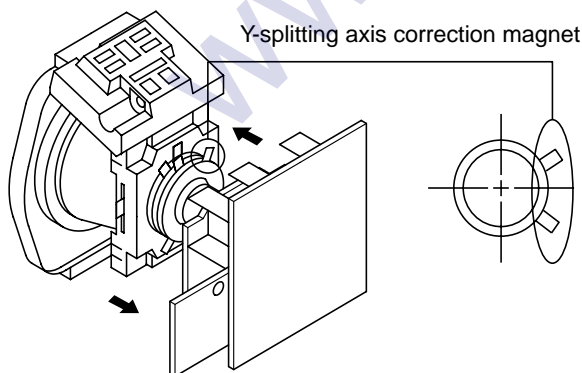
3-1. BEAM LANDING

Preparation:

1. In order to reduce the influence of geomagnetism on the set's picture tube, face it in an easterly or westerly direction.
2. Switch on the set's power and degauss with the degausser.

(1) Adjustment of Correction Magnet for Y-Splitting Axis

1. Input a crosshatch signal from the pattern generator.
2. Set the Picture control to minimum and confirm that the Brightness control is set to normal.
3. Position the neck assembly as indicated in Fig 3-2.
4. Move the deflection yolk as far forward as is possible.
5. Adjust the upper and lower pin symmetrically by opening or closing the Y-splitting axis correction magnets located on the neck assembly.
6. Return the deflection yolk to its original position.



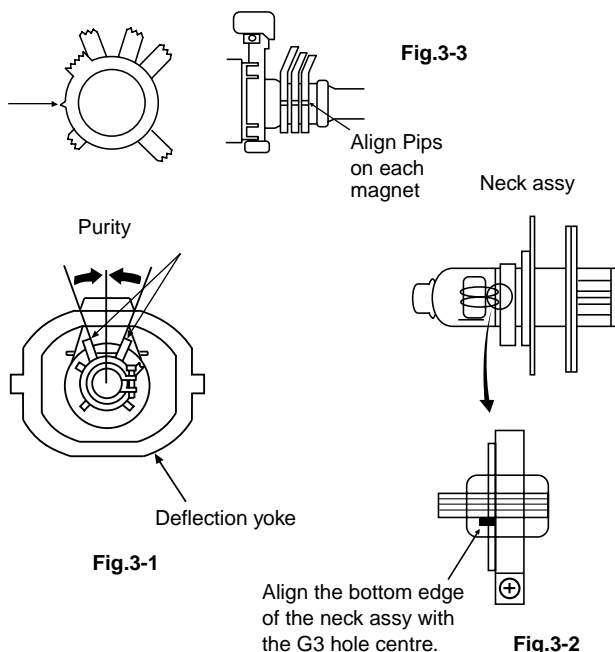
Caution :

High voltages are present on the Deflection yolk terminals - take care when handling the Deflection yolk whilst carrying out adjustments.

(2) Landing

Note : Before carrying out the following adjustments adjust the magnets as indicated below [See Fig.3-3].

1. Input an all-white signal from the pattern generator. Maximize the picture setting and adjust the Brightness setting
2. Rough-adjust the focus and horizontal convergence.
3. Loosen the deflection yolk screws and align the purity adjustment knob to its central position. [See Fig.3-1].
4. Switch from the all-white pattern to an all-green pattern.
5. Move the deflection yolk backwards and adjust with the purity magnet so that the green is at the centre and it aligns symmetrically. [See Fig.3-4].
6. Move the deflection yolk forward and adjust so that the entire screen becomes green.
7. Switch the raster signal to red, then to blue and verify the landing condition.
8. When the position of the deflection yolk has been determined, fasten the deflection yolk with the screw.
9. If the beam does not land correctly in all the corners of the screen, use magnets to correct it. [See Fig.3-5].



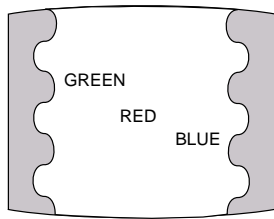


Fig.3-4

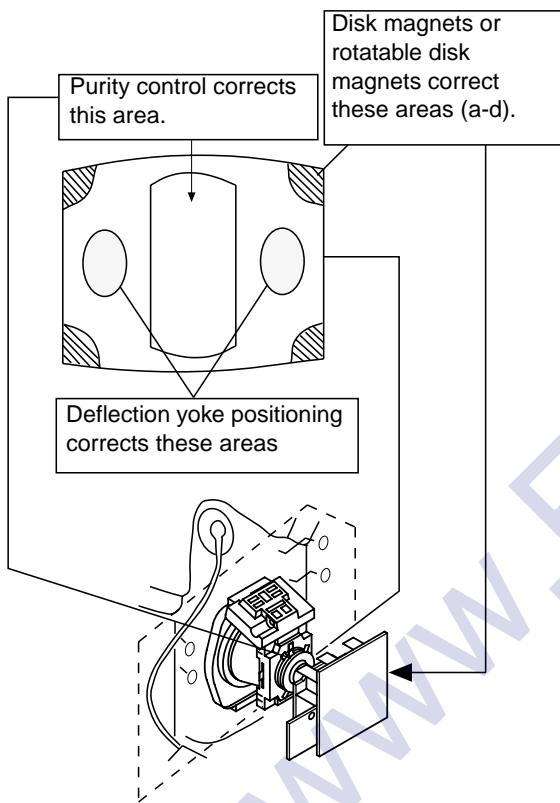
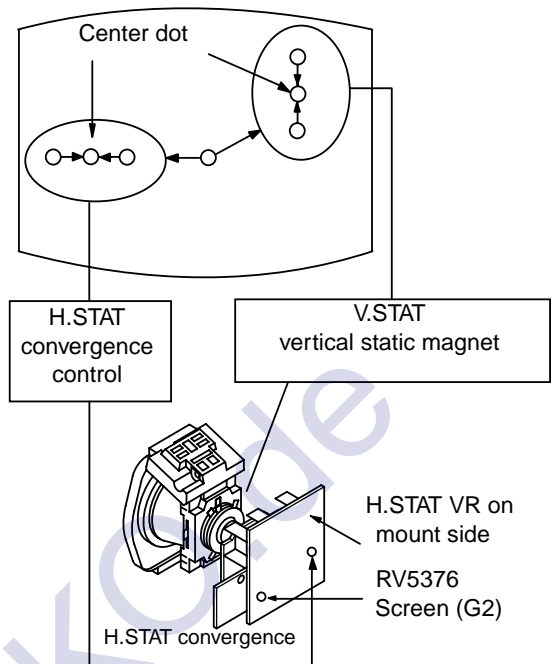


Fig. 3-5

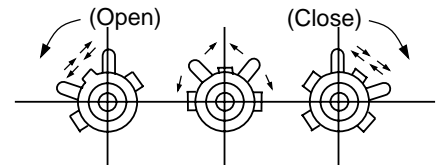
3-2. CONVERGENCE

(1) Screen centre convergence [Static convergence]

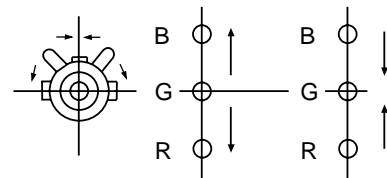
1. Input a dot signal from the pattern generator. Normalize the picture setting.
2. [Moving horizontally], adjust the H.STAT control so that the horizontal red, green and blue dots coincide at the centre of the screen.
3. [Moving vertically], adjust the V.STAT magnet so that the vertical red, green and blue dots coincide at the centre of the screen.



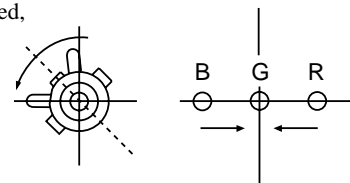
- If the horizontal dots are unable to coincide with the variable range of the H.STAT convergence, adjust together with the V.STAT convergence while tracking.
[Adjust the convergence by tilting the V.STAT convergence or by opening and closing the V.STAT convergence.]



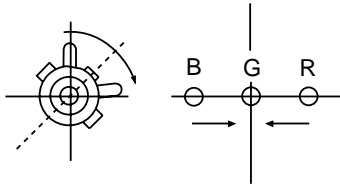
4. Movement of the red, green and blue dots by tilting the V.STAT magnet and by opening or closing the V.STAT magnet.
- a). By opening or closing the V.STAT magnet, the red, green and blue dots move as indicated below.



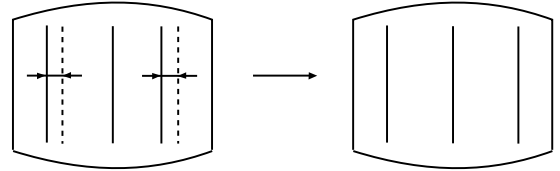
- b). By rotating the V.STAT magnet counter clockwise, the red, green and blue dots move as indicated below.



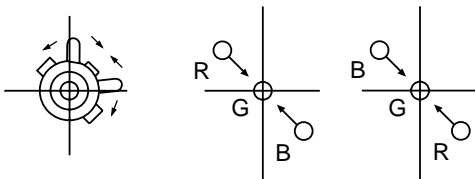
- c). By rotating the V.STAT magnet clockwise, the red, green and blue dots move in the direction indicated below.



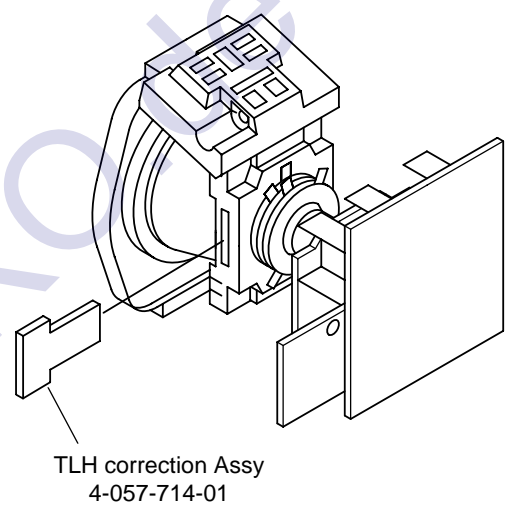
HAMP



- d). By opening or closing the V.STAT magnet, the red, green and blue dots move in the direction indicated below.



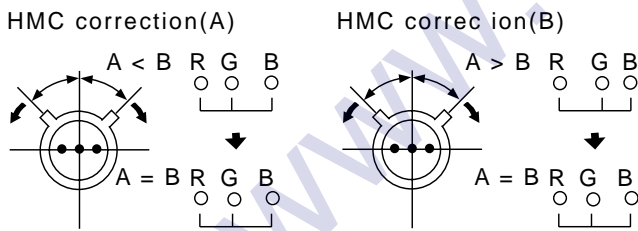
7. HTIL correction can be performed by adding a THL correction ASSY to the DY.



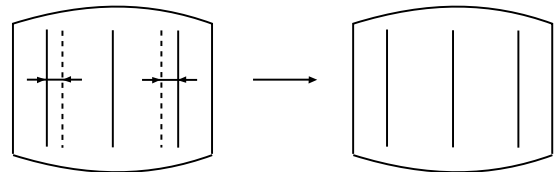
Note : If the blue dot does not coincide with the red and green points correct the points by using the BMC [Hexapole] magnet.

5. Correction for HMC [horizontal mis-convergence] and VMC [vertical mis-convergence] by using the BMC [Hexapole] magnet.

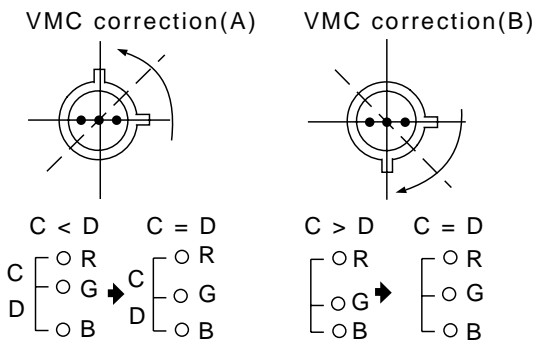
- a). HMC correction by BMC [Hexapole] magnet and movement of the electron beam.



HTIL



- b). VMC correction by BMC [Hexapole] magnet and movement of the electron beam.



Layout of each control

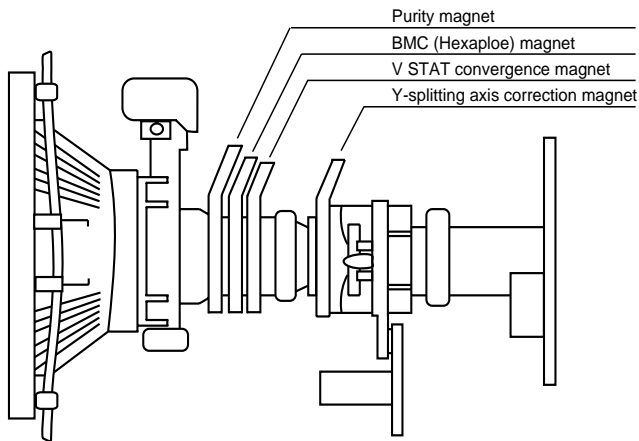
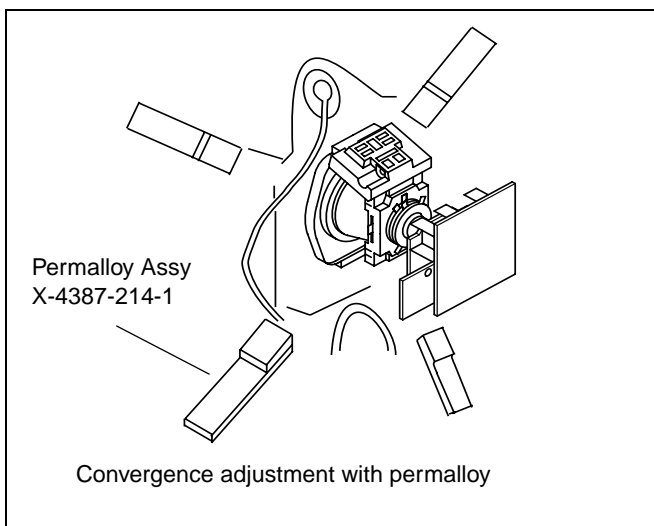
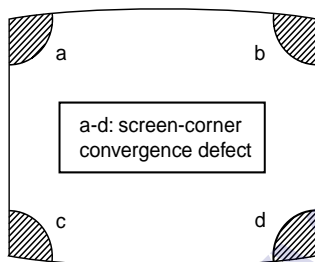


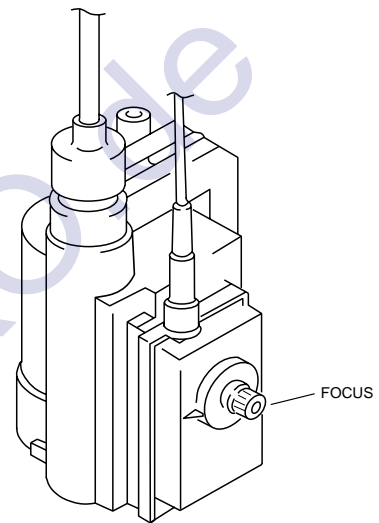
Fig 3-5

Note : If you are unable to adjust the corner convergence properly, this can be corrected with the use of permalloys.



3-3. FOCUS

1. Receive a television broadcast signal.
2. Normalize the picture setting.
3. Adjust the focus control located on the flyback transformer to obtain the best focus at the centre of the screen.
Bring only the centre area of the screen into focus, the magenta-ring appears on the screen. In this case, adjust the focus to optimize the screen uniformly.



3-4. SCREEN (G2), WHITE BALANCE

[Adjustment in the service mode using the remote commander]

G2 adjustment (RV5376)

1. Input a dot signal from the pattern generator.
2. Set the Picture, Brightness and Colour to minimum.
3. Apply 175V DC from an external power supply to the R, G and B cathodes of the CRT.
4. Whilst watching the picture, adjust the G2 control RV5376 [SCREEN] located on the C Board to the point just before the flyback return lines disappear.

White balance adjustment for TV mode

1. Input an all-white signal.
2. Enter into the Service Mode by pressing 'TEST', 'TEST' and 'MENU' 'MENU' on the Service Commander.
3. Select 'Backend' from the on screen menu display and press 'OK'.
4. The 'Backend' menu will appear on the screen.
5. Set the contrast to MAX.
6. Set the 'R DRIVE' to 41.
7. Adjust the 'G DRIVE' and 'B DRIVE' so that the white balance becomes optimum.
8. Press the 'OK' button to write the data for each item.
9. Set the contrast to MIN.
10. Set the 'R CUT-OFF' to 31.
11. Adjust the 'G CUT-OFF', and 'B CUT-OFF' with the left and right buttons on the remote commander so that the white balance becomes optimum.
12. Press the 'OK' button to write the data for each item.

Backend					
No	Descr.	Def	Min	Max	Data
1	R-on	ON	OFF	ON	ON
2	G-on	ON	OFF	ON	ON
3	B-on	ON	OFF	ON	ON
4	D-col	OFF	OFF	ON	ON
5	Color-axis	2	0	3	2
6	Contrast	63	0	63	63
7	Limit-Luv	3	0	3	3
8	Hue	31	0	63	31
9	Colour	31	0	63	28
10	CTI -Level	2	0	3	2
11	Brightness	31	0	63	31
12	Gamma	2	0	3	2
13	Sharpnes	31	0	63	44
14	LTI-Level	0	0	3	0
5	R-Drive	41	0	63	40
6	BLK-Bottom	0	0	3	0
7	G-Drive	41	0	63	38
18	ABL-TH	0	0	3	0
19	B-Drive	41	0	63	21
20	ABL-Mode	2	0	3	2
21	Sub Bright	31	0	63	32
22	VM-Level	2	0	3	2
23	R-Cutoff	31	0	63	41
24	Preover	2	0	3	2
25	G-Cutoff	31	0	63	45
26	DPIC-Level	2	0	3	2
27	B-Cutoff	31	0	63	48
28	DC-Tran	1	0	3	1
29	Sub-Cont	7	0	15	7
30	LRGB2-Lvl	12	0	15	12
31	P-Abl	15	0	15	15
32	DL-Pass	OFF	OFF	ON	OFF
33	Sharp.Fo	ON	OFF	ON	ON
34	Aging-W	OFF	OFF	ON	OFF
35	Aging-B	OFF	OFF	ON	OFF
36	CB-offset1	7	0	15	7
37	CR-offset1	7	0	15	7
38	CB-offset2	7	0	15	7
39	CR-offset2	7	0	15	7
40	Sub Colour	0	-8	8	-1

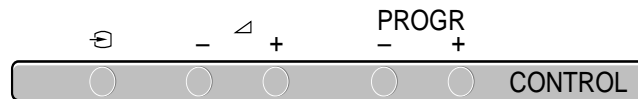
SECTION 4 CIRCUIT ADJUSTMENTS

4-1. ELECTRICAL ADJUSTMENTS

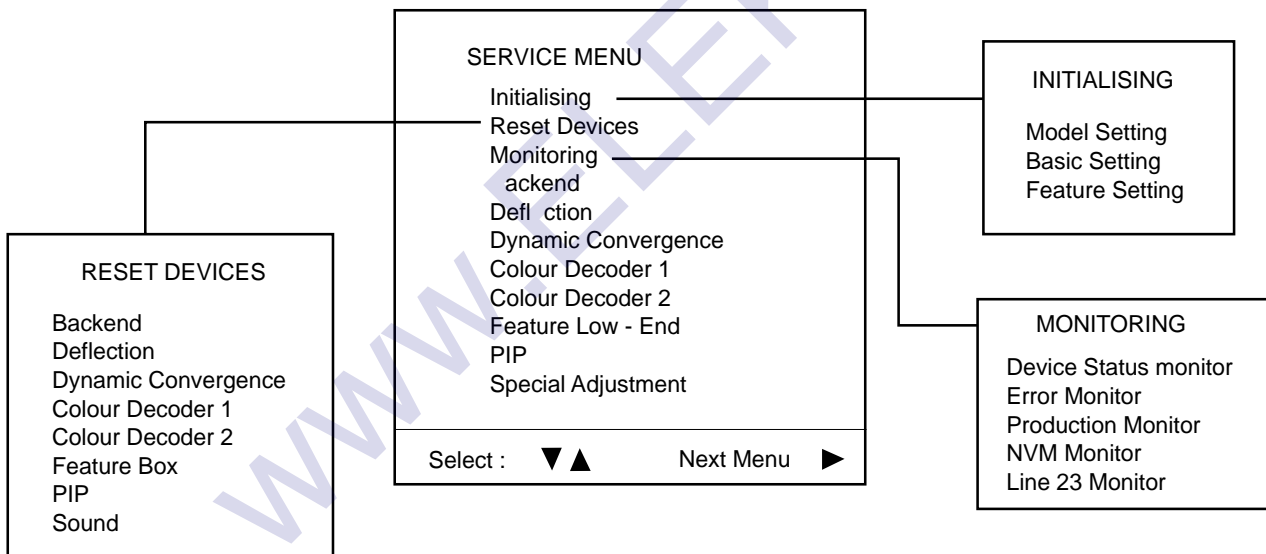
Service adjustments to this model can be performed using the supplied Remote Commander RM-891.

HOW TO ENTER INTO SERVICE MODE

1. Turn on the main power switch of the set while pressing PROG + (plus) and PROG - (minus) buttons on the top panel.



2. "TT" will appear in the upper right corner of the screen.
3. Press the 'MENU' button twice on the remote commander to obtain the service menu on the screen.



4. Push the joystick up or down on the remote commander to select the adjustment item.
5. Push the right button to proceed to the next menu.
6. If the required adjustment item is 'Deflection', push the down button to move to 'Deflection'.
7. Push the joystick to the right to enter into 'Deflection'.
8. Change the data in order to comply with each standard.

NOTE:

- Before performing any adjustments assure that the correct model has been selected in the Model Setting menu.
- After carrying out the service adjustments, to prevent the customer accessing the Service Menu switch the TV set OFF and then ON.

Model Setting	
1	KV-29FX60A/D/E
2	KV-29FX60B
3	KV-29FX60U
4	KV-29FC60A/D/E
5	KV-29FC60B
6	KV-29FC60K
7	KV-29FC60R
8	KV-29FS60A/D/E
9	KV-29FS60B
10	KV-29FS60K
11	KV-29FS60R
12	KV-28/32FX60A/D/E
13	KV-28/32FX60B
14	KV-28/32FX60K
15	KV-28/32FX60R
16	KV-28/32FX60U
17	KV-29FS60A/D/E
18	KV-29FS60B

Fig.4-1

Basic setting				
No	Descr.	Min	Max	Data
1	Sys.B/G	OFF	ON	ON
2	Sys.D/K	OFF	ON	ON
3	Sys.L	OFF	ON	ON
4	Sys I (UK)	OFF	ON	OFF
5	Sys I (IRL)	OFF	ON	OFF
6	Russian sound	OFF	N	OFF
7	TXT Nod.option	1	4	3
8	simple PAT	OFF	ON	OFF
9	16:9 CRT	OFF	ON	OFF
10	Sub-woofer	OFF	ON	ON
11	Auto stand-by	OFF	ON	ON
12	comb-filter	OFF	ON	OFF
13	Auto YC det	OFF	ON	ON
14	Auto comb det	OFF	ON	OFF
15	AV2 Available	OFF	ON	ON
16	AV3 Available	OFF	ON	ON
17	AV4 Available	OFF	ON	OFF
18	AV3 Front & rear	OFF	ON	ON
19	SECAM Tape	OFF	ON	OFF

Fig.4-2

NOTE:

The above table is dependant on model, destination & size.

Backend					
No	Descr.	Def	Min	Max	Data
1	R-on	ON	OFF	ON	ON
2	G-on	ON	OFF	ON	ON
3	B-on	ON	OFF	ON	ON
4	D-col	OFF	OFF	ON	ON
5	Color-axis	2	0	3	2
6	Contrast	63	0	63	63
7	Limit-Luv	3	0	3	3
8	Hue	31	0	63	31
9	Colour	31	0	63	28
10	CTI -Level	2	0	3	2
11	Brightness	31	0	63	31
12	Gamma	2	0	3	2
13	Sharpness	31	0	63	44
14	LTI-Level	0	0	3	0
15	R Drive	41	0	63	40
16	BLK-Bottom	0	0	3	0
17	G-Drive	41	0	63	38
18	ABL-TH	0	0	3	0
19	B-Drive	41	0	63	21
20	ABL-Mode	2	0	3	2
21	Sub Bright	31	0	63	32
22	VM-Level	2	0	3	2
23	R-Cutoff	31	0	63	41
24	Preover	2	0	3	2
25	G-Cutoff	31	0	63	45
26	DPIC-Level	2	0	3	2
27	B-Cutoff	31	0	63	48
28	DC-Tran	1	0	3	1
29	Sub-Cont	7	0	15	7
30	LRGB2-Lvl	12	0	15	12
31	P-Abl	15	0	15	15
32	DL-Pass	OFF	OFF	ON	OFF
33	Sharp.Fo	ON	OFF	ON	ON
34	Aging-W	OFF	OFF	ON	OFF
35	Aging-B	OFF	OFF	ON	OFF
36	CB-offset1	7	0	15	7
37	CR-offset1	7	0	15	7
38	CB-offset2	7	0	15	7
39	CR-offset2	7	0	15	7
40	Sub Colour	0	-8	8	-1

Fig.4-3

Feature setting				
No	Descr.	Min	Max	Data
1	PIP	OFF	ON	ON

Fig.4-4

Colour Decoder 1					
No	Descr.	Def	Min	Max	Data
1	DelayLinMd	OFF	OFF	ON	OFF
2	Gain set	1	0	3	1
3	Y-Delay	7	0	15	7
4	Phase Time	0	0	3	0
5	Vid Ident Md	OFF	OFF	ON	OFF
6	Sync Mode	OFF	OFF	ON	OFF
7	Vid Ident Sw	ON	OFF	ON	ON
8	H-Output	OFF	OFF	ON	OFF
9	Enagating	OFF	OFF	ON	OFF
10	IF Circuit	ON	OFF	ON	ON
11	GP Delay	OFF	OFF	ON	OFF

Fig.4-5

Colour Decoder 2					
No	Descr.	Def	Min	Max	Data
1	DelayLinMd	OFF	OFF	ON	OFF
2	Gain set		0	3	1
3	Y-Delay	7	0	15	7
4	Phase Time	0	0	3	0
5	Vid Ident Md	OFF	OFF	ON	OFF
6	Sync Mode	OFF	OFF	ON	OFF
7	Vid Ident Sw	ON	OFF	ON	ON
8	H-Output	OFF	OFF	ON	OFF
9	Enagating	OFF	OFF	ON	OFF
10	IF Circuit	ON	OFF	ON	ON
11	GP Delay	OFF	OFF	ON	OFF

Fig.4-6

Deflection					
No	Descr.	Def	Min	Max	Data
1	V-Size	31	0	63	34
2	V-Position	31	0	63	21
3	V-Comp	1	0	3	1
4	V-Linear	7	0	15	7
5	S-Corr	7	0	15	8
6	H-Size	31	0	63	29
7	EW-DC	OFF	OFF	ON	OFF
8	Pin-Amp	31	0	63	36
9	Up-Cpin	31	0	63	35
10	M-Pin	2	0	3	2
11	Lo-Cpin	31	0	63	37
12	Trapezium	7	0	15	7
13	H-Posit on	31	0	63	25
14	AFC-B w	7	0	15	7
15	A C-Angle	7	0	15	9
16	Up Vlin	0	0	15	0
17	L Vlin	0	0	15	0

Fig.4-7

Dynamic Convergence					
No	Descr.	Def	Min	Max	Data
1	Range	63	0	63	32
2	H Stat	33	0	63	33
3	H amp L	37	0	63	37
4	H amp R	36	0	63	36
5	Up Y	31	0	63	31
6	Low Y	33	0	63	33
7	Y Up L	30	0	63	30
8	Y Up R	30	0	63	30
9	Y Low L	31	0	63	31
10	Y Low R	30	0	63	30
11	Mbow Up L	31	0	63	31
12	Mbow Up R	32	0	63	32
13	Mbow Low L	32	0	63	32
14	Mbow Low R	32	0	63	32
15	V Stat	32	0	63	32
16	Linearity	128	0	255	104
17	H Centre	32	0	63	32
18	H Trap	32	0	63	32
19	Rotation	0	0	255	0
20	Focus Phase	128	0	255	128

Fig.4-8

Feature Low-End					
No	Descr.	Def	Min	Max	Data
1	F.S.F.M	OFF	OFF	ON	OFF
2	G-Mode	OFF	OFF	ON	OFF
3	Picture Pos	0	0	3	0
4	Comp Mode	OFF	OFF	ON	OFF
5	CompSW	OFF	OFF	ON	OFF
6	Acqu.freq	OFF	OFF	ON	OFF
7	Still Pic	OFF	OFF	ON	OFF
8	Init	OFF	OFF	ON	OFF
9	Dis Feature	ON	OFF	ON	ON
10	Dis Vlimit	ON	OFF	ON	ON
11	Scr Fade	0	0	3	0
12	Hwe Delay	20	0	255	20
13	Auto Vshift	OFF	OFF	ON	OFF
14	Vve Delay	0	0	127	0
15	SFR sw	OFF	OFF	ON	OFF
16	IPQ	0	0	3	0
17	D.Col Dec	OFF	OFF	ON	OFF
18	Blankfield	0	0	15	0
19	P1.5	OFF	OFF	ON	OFF
20	P1.4	OFF	OFF	ON	OFF
21	P1.3	OFF	OFF	ON	OFF
22	P1.2	OFF	OFF	ON	OFF
23	P1.1	OFF	OFF	ON	OFF
24	Set Vdba	OFF	OFF	ON	OFF
25	Set Sidep	ON	OFF	ON	ON
26	Set Hwe	OFF	OFF	ON	OFF
27	Set Clv	OFF	OFF	ON	OFF
28	Set Hddel	OFF	OFF	ON	OFF
29	Set Hblnd	OFF	OFF	ON	OFF
30	Set Hre	ON	OFF	ON	ON
31	Set Hbda	ON	OFF	ON	ON
32	Set Hdav	ON	OFF	ON	ON
33	Vbdasta	0	0	255	0
34	Vsdasto	0	0	255	0
35	Msbhwesto	OFF	OFF	ON	OFF
36	Msbhwesta	OFF	OFF	ON	OFF
37	Msbvbdasto	OFF	OFF	ON	OFF
38	Msbvbdasta	OFF	OFF	ON	OFF
39	Hdavsta	40	0	255	40
40	Hdavsto	255	0	255	255

Feature Low-End(Cont.)					
No	Descr.	Def	Min	Max	Data
41	Hbdasta	223	0	255	223
42	Hbdasto	222	0	255	222
43	Hresta	38	0	255	38
44	Hresto	202	0	255	202
45	Hblndsta	31	0	255	31
46	Hblndsto	30	0	255	30
47	MsbHblndsta	OFF	OFF	ON	OFF
48	MsbHblndsto	OFF	OFF	ON	OFF
49	Msb Hresto	ON	OFF	ON	ON
50	Msb Hresta	OFF	OFF	ON	OFF
51	Msbhbdasta	ON	OFF	ON	ON
52	Msbhbdasto	ON	OFF	ON	ON
53	Msbhdav to	ON	OFF	ON	ON
54	Msbhdavs a	OFF	OFF	ON	OFF
5	Hddel	0	0	15	0
6	Clvsta	0	0	255	0
7	Clvsto	9	0	255	9
58	Hwesta	44	0	255	44
59	Hwesto	208	0	255	208
60	Ex-Thres	OFF	OFF	ON	OFF
61	Wes	ON	OFF	ON	OFF
62	Demo mode	ON	OFF	ON	OFF
63	Limerick NR	0	0	4	0
64	Nthr	0	0	255	2
65	Wval	200	0	255	200
66	Agc Ych	203	0	255	203
67	Agc Uvch	209	0	255	209
68	Aal-Bypass	OFF	OFF	ON	OFF
69	Stby Fr	OFF	OFF	ON	OFF
70	Lsb Agc-Uv	OFF	OFF	ON	OFF
71	Lsb Agc-Y	OFF	OFF	ON	OFF
72	Vcl cor	0	0	3	0
73	Ucl cor	0	0	3	0
74	Uv cor mode	0	0	3	0
75	Uvcl tau	3	0	3	3
76	Uvcol Lvl	0	0	3	0
77	Fil Mem	OFF	OFF	ON	OFF
78	Overl Thr	1	0	3	1
79	Y delay f	4	0	7	4
80	Dcti pdxsel	ON	OFF	ON	ON

Fig.4-9

Feature Low-End (Cont.)					
No	Descr.	Def	Min	Max	Data
81	Dcti Thres	0	0	15	0
82	Dcti Gain	0	0	7	0
83	Dcti Super	ON	OFF	ON	ON
84	Dcti Fil	ON	OFF	ON	ON
85	Dcti Prot	ON	OFF	ON	ON
86	Dcti Sep	ON	OFF	ON	ON
87	Dcti Limit	2	0	3	2
88	Peak Beta	0	0	7	0
89	Peak Alpha	2	0	7	2
90	Peak Neg g	0	0	3	0
91	Peak Delta	0	0	3	0
92	Peak Tau	0	0	7	0
93	Peak Corth	0	0	15	0
94	Overlay V	0	0	15	0
95	Overlay U	0	0	15	0
96	Overlay Y	10	0	255	10
97	Sidep sta	240	0	255	240
98	Sidep sto	36	0	255	36
99	Y delay B	7	0	7	7
100	Invert UV	ON	OFF	ON	ON
101	Output Range	ON	OFF	ON	ON
102	Sidep Fdel	0	0	3	0

PIP					
No	Descr.	Def	Min	Max	Data
1	Freeze	OFF	OFF	ON	OFF
2	Frame	ON	OFF	ON	ON
3	Pipon	ON	OFF	ON	OFF
4	Seldel	1	0	15	1
5	Mixdis	ON	OFF	ON	ON
6	H-Poshi	0	0	3	0
7	H-Pos	137	0	255	137
8	V-Pos	59	0	255	59
9	Y-Delay	0	0	7	0
10	V-Dec	OFF	OFF	ON	OFF
11	H-Dec	OFF	OFF	ON	OFF
12	Insvh	ON	OFF	ON	ON
13	Chrins	ON	OFF	ON	ON
14	Pmod	0	0	3	0
15	Im d	0	0	3	0
16	Cl	ON	OFF	ON	ON
17	H ide	4	0	15	4
18	Vsiisq	OFF	OFF	ON	OFF
19	Vsidel	0	0	31	0
20	Parasynd	ON	OFF	ON	ON
21	Vspisq	OFF	OFF	ON	OFF
22	Vspdel	10	0	31	10
23	Con	1	0	15	1
24	Fry	8	0	15	8
25	Frv	3	0	15	3
26	Fru	4	0	15	4
27	Sel Down	OFF	OFF	ON	OFF
28	Frwidv	1	0	3	1
29	Frwidh	2	0	7	2
30	Mat	4	0	7	4
31	Daconst	OFF	OFF	ON	OFF
32	Plitc	1	0	3	1
33	Dacontle	OFF	OFF	ON	OFF
34	Left	83	0	255	83
35	RightHi	1	0	3	1
36	Right	192	0	255	192
37	Up	46	0	255	46
38	Down	189	0	255	189

Fig.4-10

Sound					
No	Descr.	Def	Min	Max	Data
1	Ref.Level	40	0	20	40
2	Auto-gain	ON	OFF	ON	ON
3	Ana-in	0	0	1	0
4	Corr-mute	ON	OFF	ON	ON
5	Clock out	ON	OFF	ON	ON
6	AM-gain	ON	OFF	ON	ON
7	Clip mode	0	0	2	0
8	SCART1 Vol	79	0	127	79
9	SCART2 Vol	79	0	127	79
10	SCART Pr	27	0	127	27
11	Izs1-pr	16	0	127	16
12	Izs2-pr	16	0	127	16
13	FM pr	27	0	127	27
14	BG Nic-pr	53	0	127	53
15	L Nic-pr	59	0	127	59
16	DK Nic-pr	53	0	127	53
17	I Nic-pr	97	0	127	97
18	Irl Nic-pr	97	0	127	97
19	AVC-Decay	2	0	8	2
20	Subw-vol	0	0	-127	0
21	Subw-freq	20	5	40	20
22	Subw-Hpuss	OFF	OFF	ON	OFF
23	Spat-stre	127	0	-1	12
24	Spat-Coeff	0	0	8	0
25	Bass offs	0	-3	3	0
26	Treble offs	0	-3	3	0
27	Loudn offs	0	0	9	0
28	Hp-voloffs	-2	-5	5	-2
29	M-S Limit	30	28	127	30
30	M-B Limit	30	-128	127	-30
31	S-M Limit	12	-128	127	12
32	S-B Limit	-20	-128	127	-20
33	B-M Limit	-12	-128	127	-12
34	B-S Limit	20	-128	127	20
35	Err.Max	40	0	255	40
36	Err.Min	14	0	255	18

Fig.4-11

Special Adjustment				
No	Descr.	Min	Max	Data
1	RGB Level	0	7	0
2	RGB Gain	0	31	9
3	RGB PatLevel	0	7	7
4	RGB Patgain	0	31	31
5	RGB H-position	-10	10	-1
6	Extra Fw	0	255	255
7	EPG Chks Check	OFF	ON	ON
8	Slicer High	OFF	ON	ON
9	FCW Wide	OFF	ON	ON
10	High PII	OFF	ON	OFF
11	Panic offset	0	2	0
12	Wide Mute	OFF	ON	ON

Fig 4-12

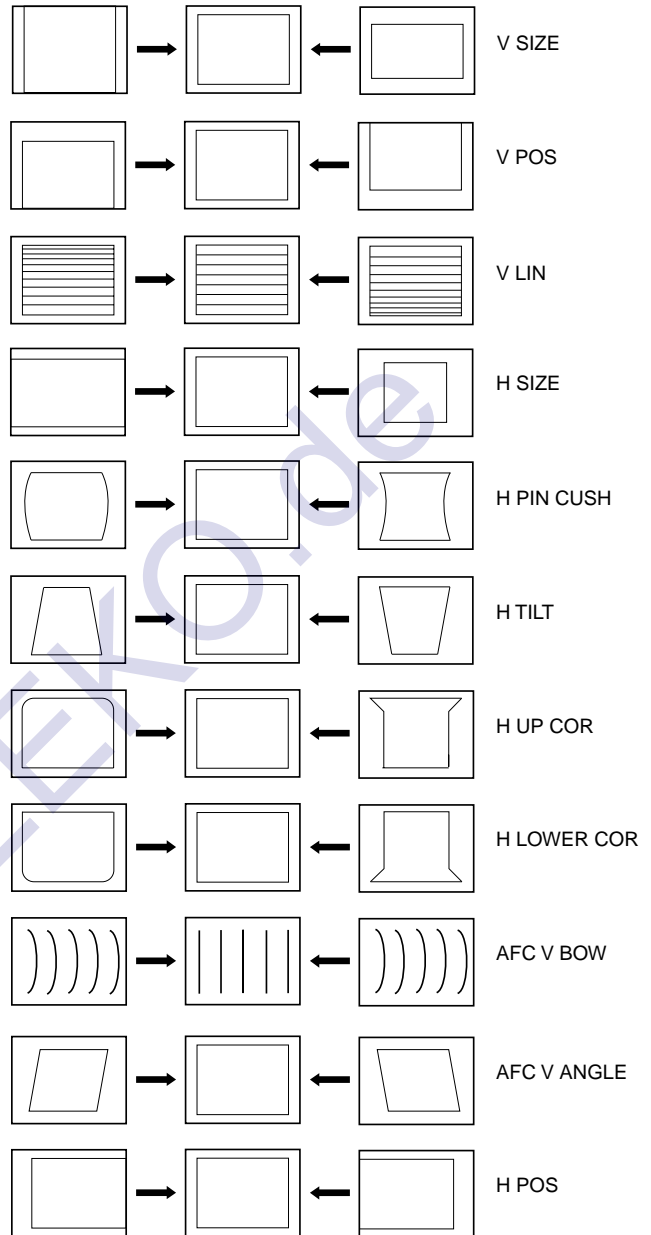
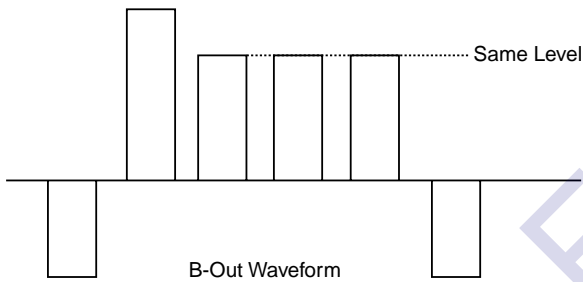
DEFLECTION SYSTEM ADJUSTMENT

1. Enter into the service mode and select 'Deflection'. The 'Deflect' adjustment menu will be displayed.
2. Select and adjust each item to obtain the optimum image.

4-2.VOLUME ELECTRICAL ADJUSTMENTS

Sub Colour Adjustment

1. Input a PAL colour bar signal.
2. Connect an oscilloscope to CN5400 pin 5 on the C board.
3. Enter into the 'SERVICE MODE'.
4. Choose 'Backend'.
5. Adjust Sub Colour data so that the right sides of the waveforms are of equal height.



4-3. TEST MODE 2:

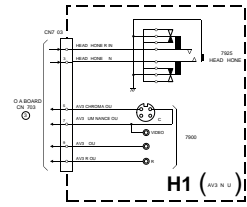
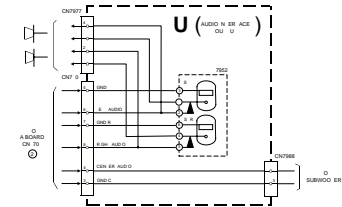
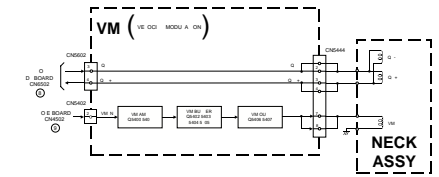
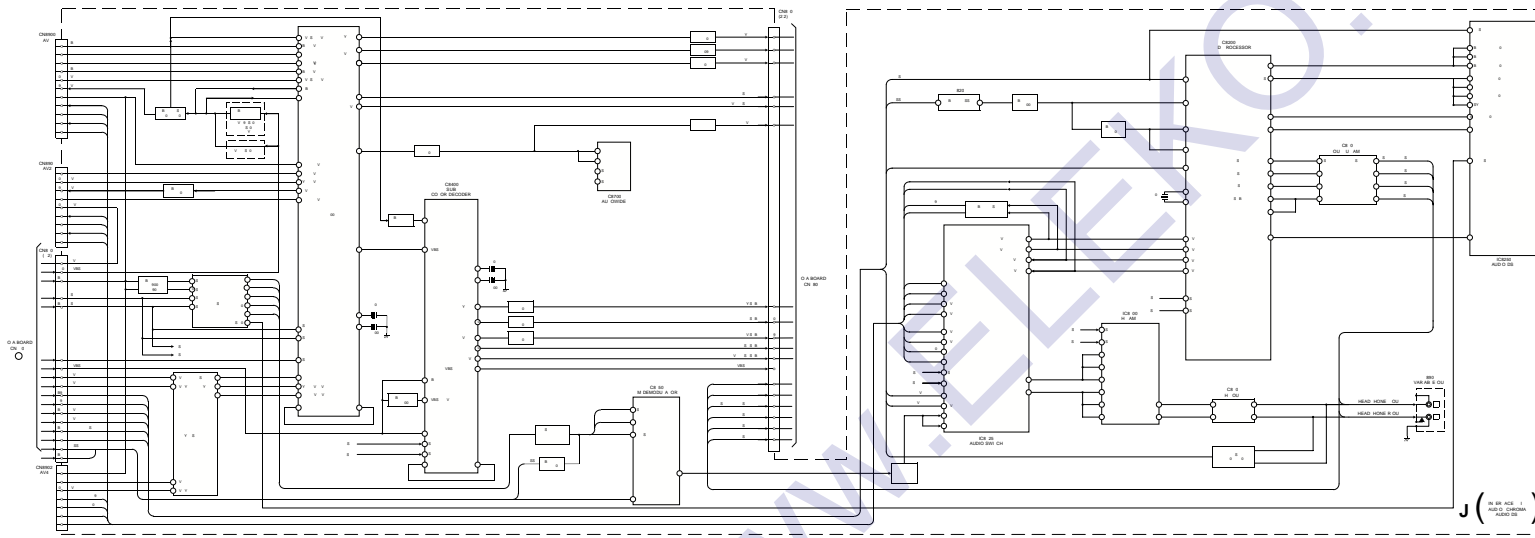
Is available by pressing 'TEST' button twice, OSD 'TT' appears. The functions described below are available by pressing the two numbers. To release the Test mode 2, press 0, 10, 20 ... twice or switch the TV set into Stand-by Mode. Pressing the two Local Control buttons (+ and -) during Power ON will also switch into 'TT' mode.

In 'TT' mode, it is possible to remove the Menu from the screen by pressing the Speaker Off button once. Pressing the Speaker OFF button a second time will cause the menu to reappear. The Function is kept even when the menu is not displayed !!.

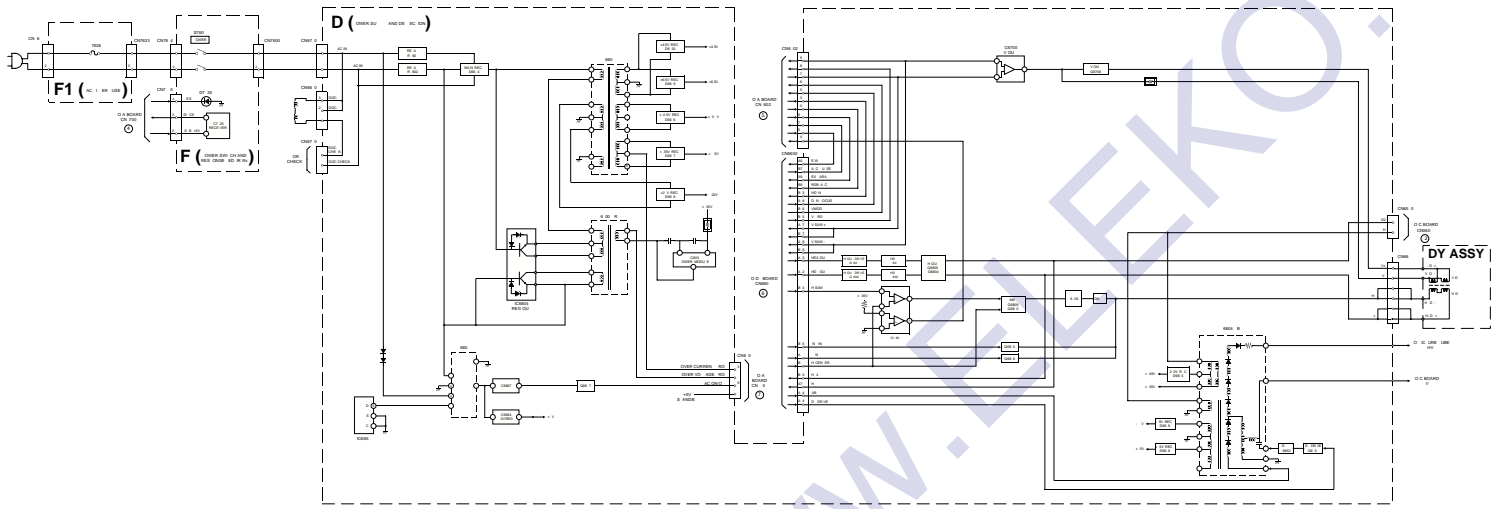
00	Switch back to normal mode - 'TT' mode off
01	Set picture maximum
02	Set picture minimum
03	Set speaker/headphone Volume to 30%
04	Set speaker/headphone Volume to 50%
05	Set speaker/headphone Volume to 65%
06	Set speaker/headphone Volume to 80%
07	Ageing Mode
08	Shipping Condition
09	Language Reset
10	No function
11	Sub picture adjustment
12	Sub colour adjustment
13	Display software version and TV set configuration
14	Production Info Display
15	Picture Rotation
16	Picture level 50%
17	Audio mute on
18	No function
19	Sub brightness adjustment
20	See 'TT10'
21	Destination A includes text setting display TV status
22	Destination L includes text settings, display TV status
23	Destination E includes text settings, display TV status
24	Destination U includes text settings, display TV status
25	Destination D includes text settings, display TV status
26	Destination B includes text settings, display TV status
27	Destination K includes text settings, display TV status
28	Destination R includes text settings, display TV status
30	See 'TT10'
31	Geometry Adjustment 1
32	Geometry Adjustment 2
33	Error monitor
34	No function
35	CRT 4:3 < > 16:9 ; Display TV status
36	Line 23 detection switch
37	Velocity Modulation (VM) test
38	No function
39	No function
40	See 'TT10'

41	Screen mode check
42	Re initialise geometry
43	No function
44	No function
45	No function
46	Reserved for dealer commander
47	Re initialise NVM
48	Set NVM as non virgin
49	Set NVM as virgin
50	See 'TT10'
51	Set Dolby volume to 90%
52	Dolby on left speaker only
53	Dolby on right speaker only
54	Dolby on left centre only
55	Dolby on surround speaker only
56	No function
59	No function
60	See 'TT10'
61	Service mode
62	Production mode
65	Reset error codes
68	Ignore errors on
69	Ignore errors off
70	See 'TT10'
71	No function
72	No function
73	Clear programs
74	No function
79	No function
80	See 'TT10'
81	PAP H adjustment left image
82	PAP H adjustment right image
83	No function
86	No function
87	Personal ID reset
88	Parental Lock off
89	No function
90	See 'TT10'

5-1 BLOCK DIAGRAMS (1)



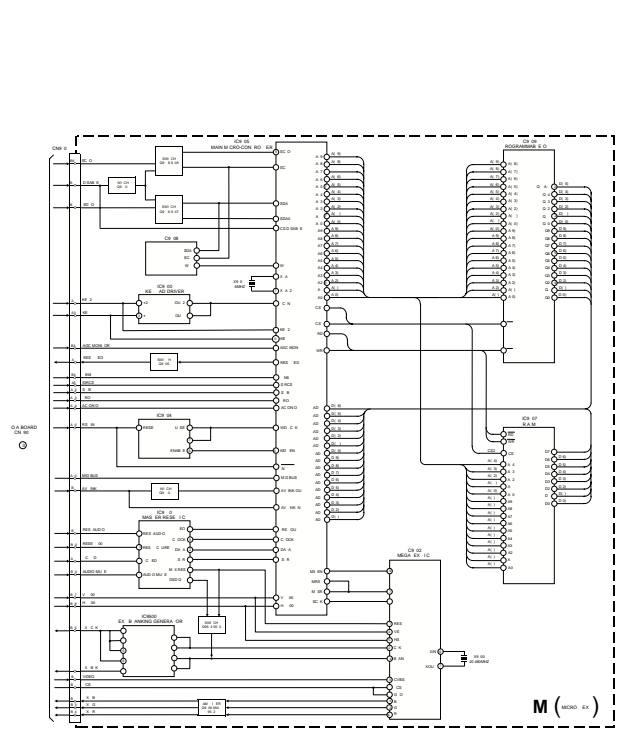
BLOCK DIAGRAMS (2)



0

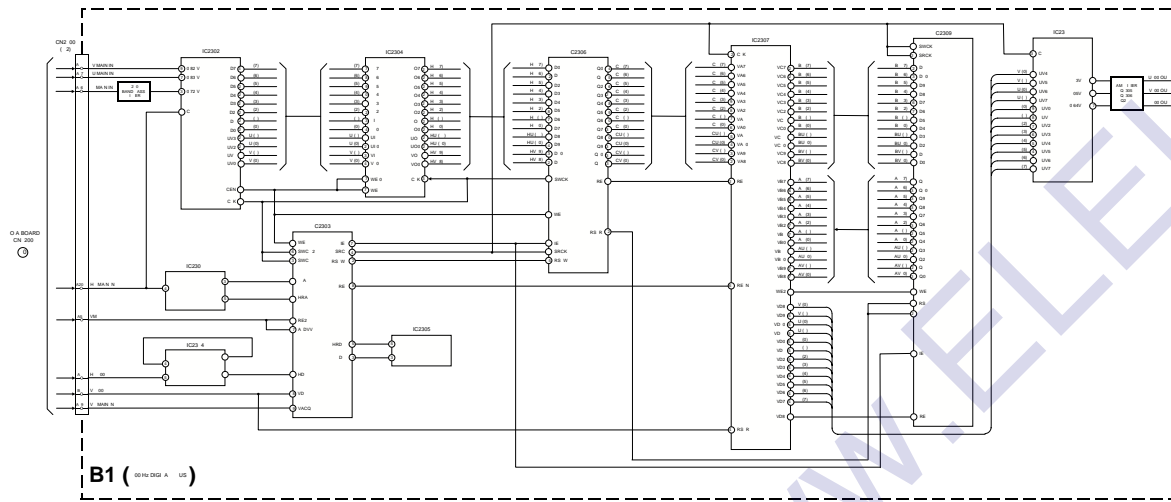
1

2

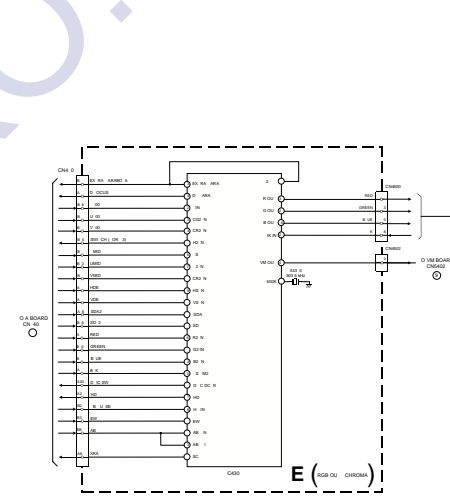


3

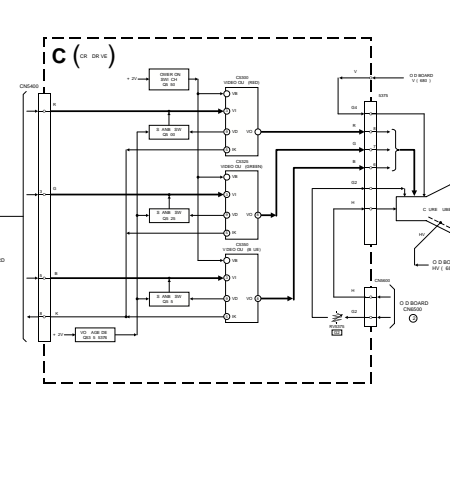
BLOCK DIAGRAMS (3)



5



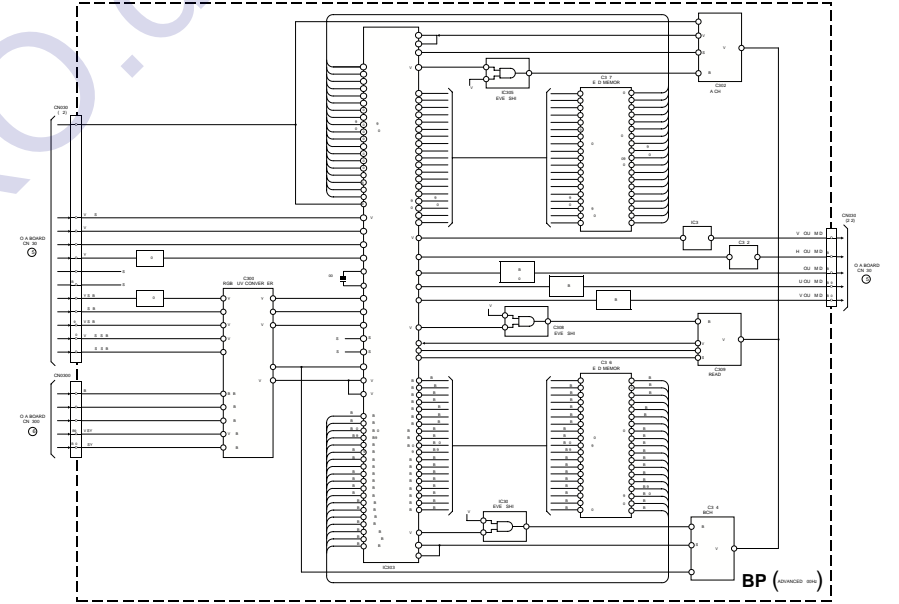
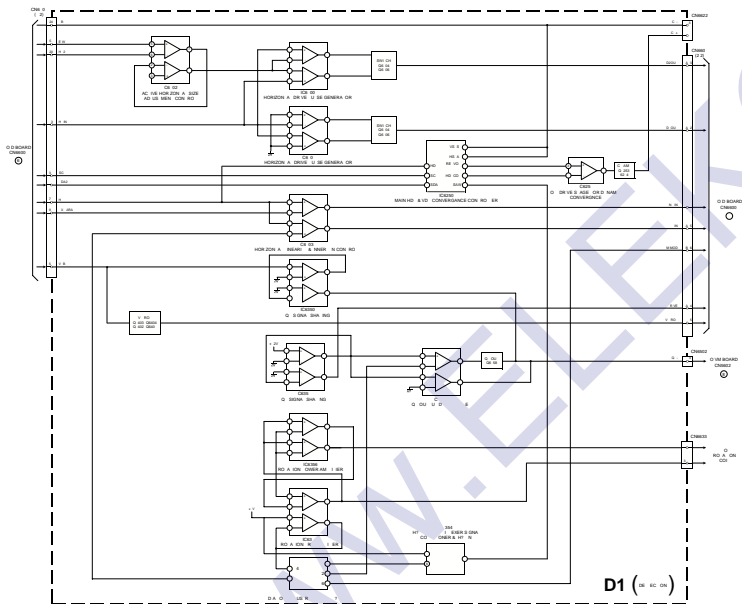
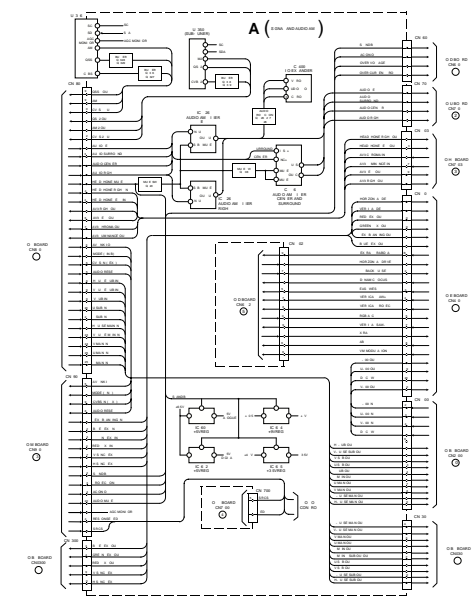
7



8

9

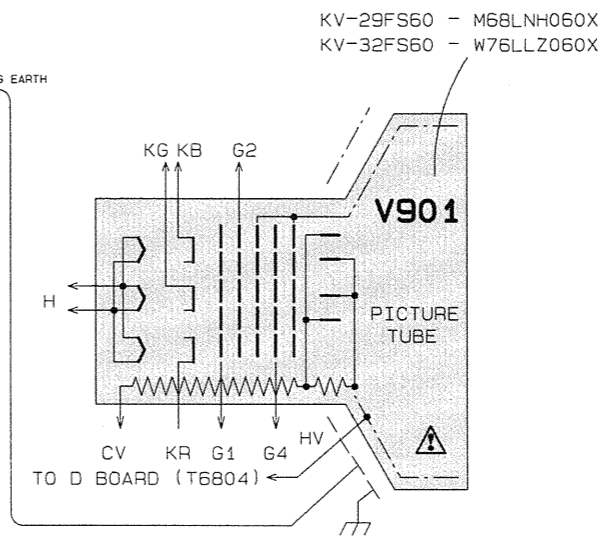
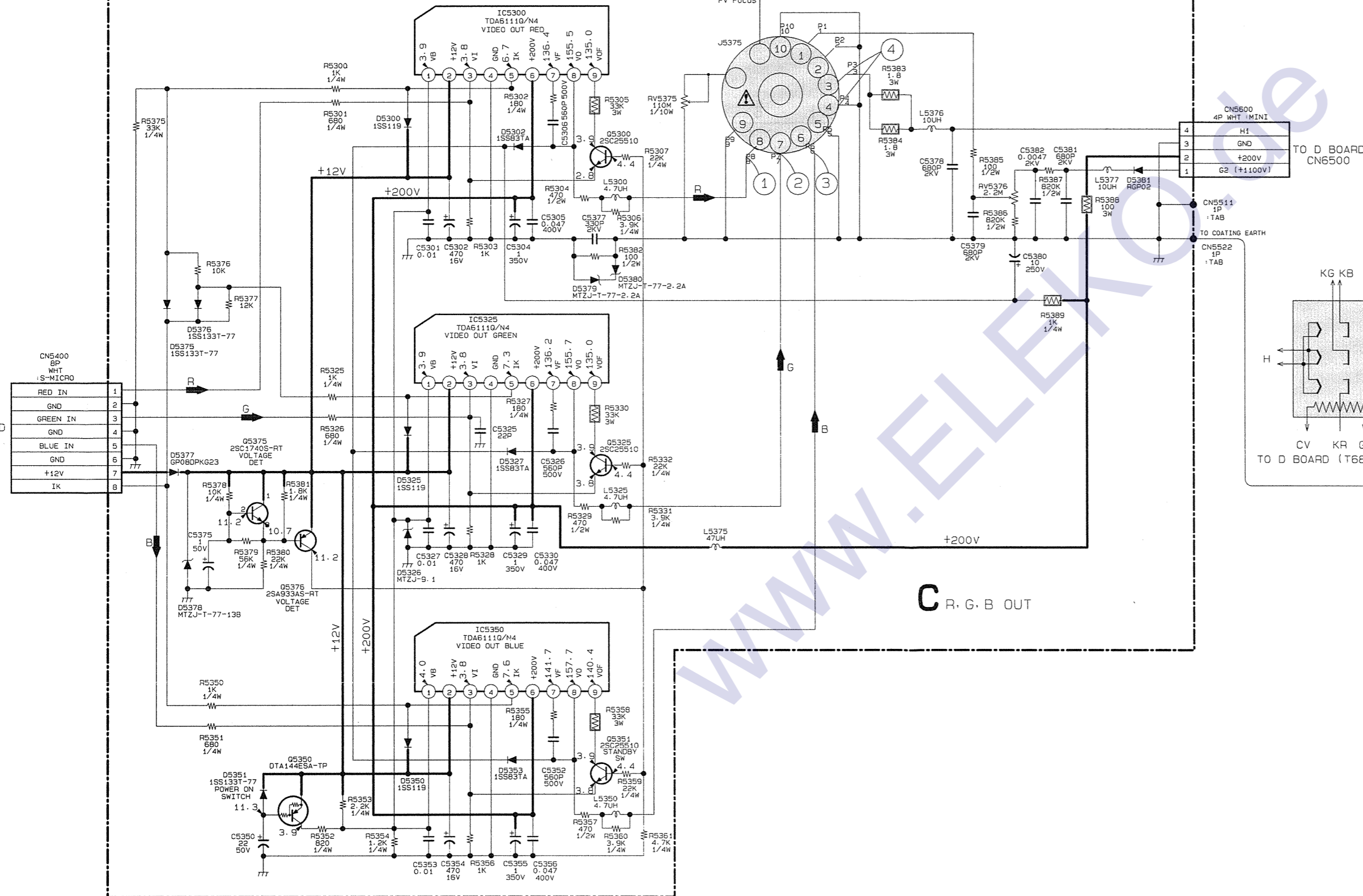
BLOCK DIAGRAMS (4)



1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16

A
B
C
D
E
F
G
H
I

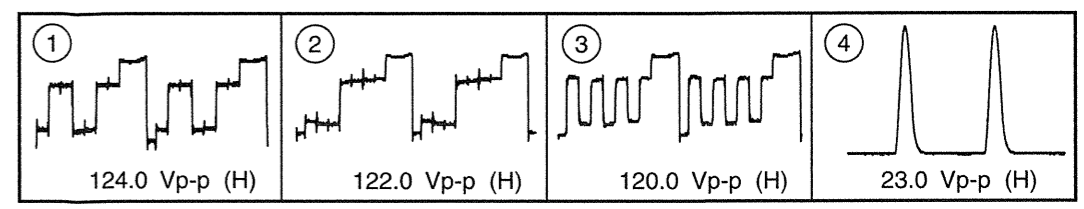
C...-29-32FS60

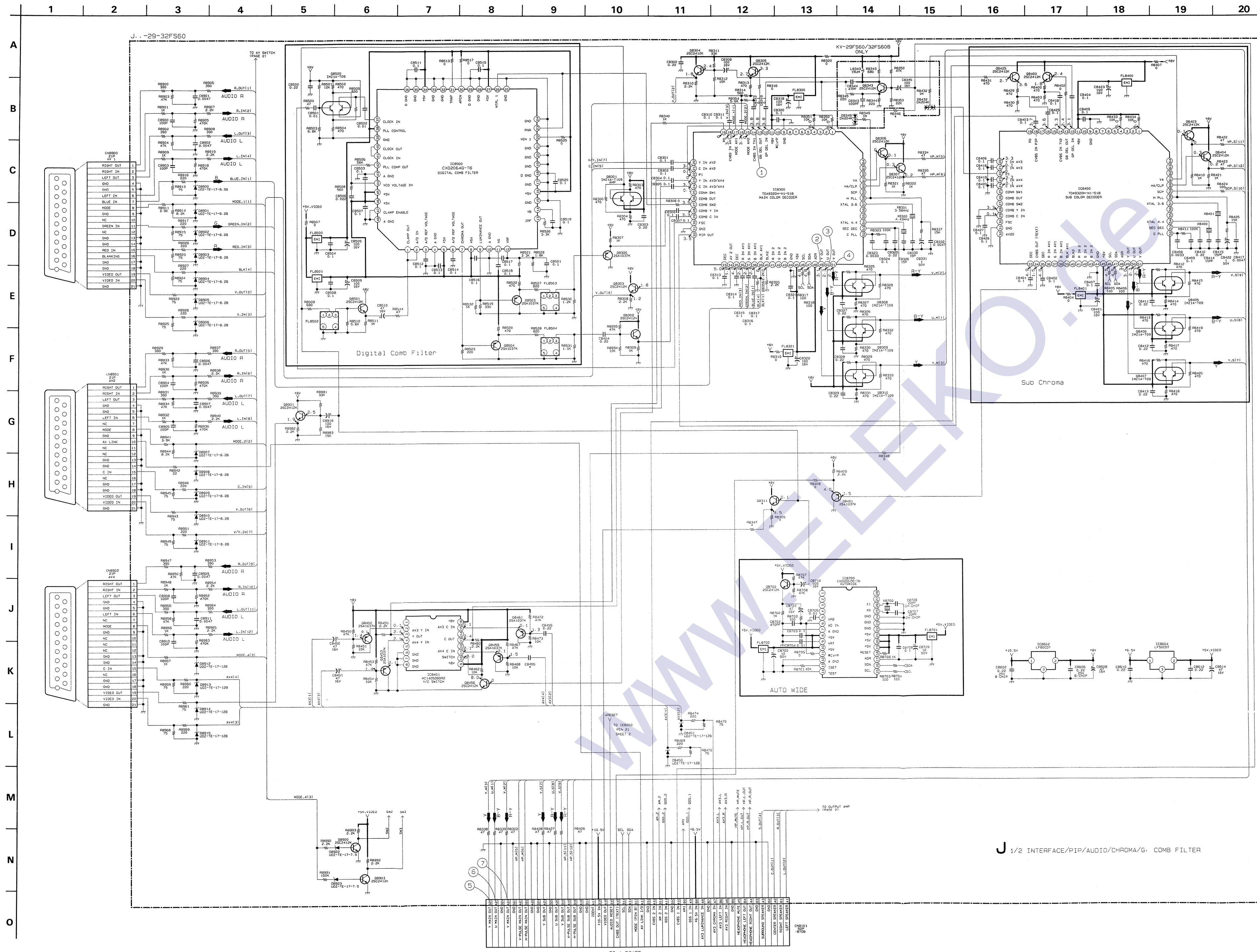


C BOARD

IC	
IC5300	B - 6
IC5325	C - 3
IC5350	C - 1
TRANSISTOR	
Q5300	B - 6
Q5325	B - 5
Q5350	A - 1
Q5351	C - 2
Q5375	A - 4
Q5376	A - 4
DIODE	
D5300	B - 6
D5302	C - 5
D5325	B - 4
D5326	B - 4
D5327	C - 4
D5350	B - 2
D5351	B - 1
D5353	C - 1
D5375	A - 5
D5376	A - 5
D5377	A - 1
D5378	B - 1
D5379	E - 5
D5380	E - 5
D5381	F - 2

Waveforms C Board

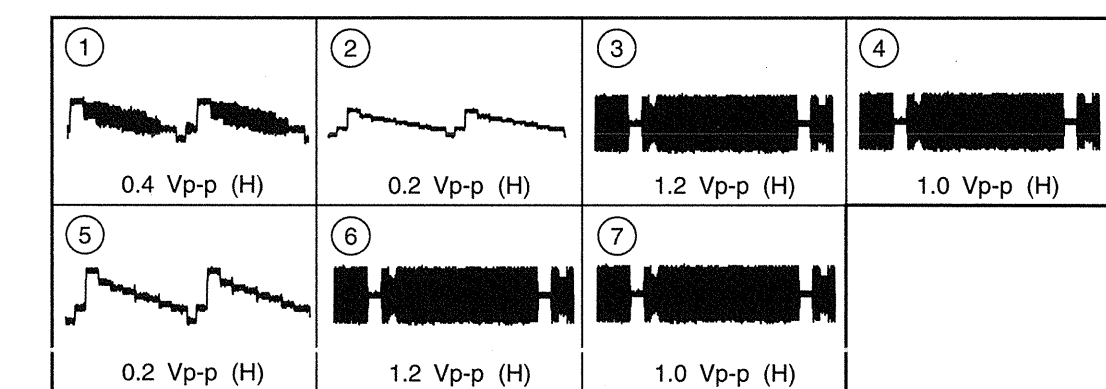


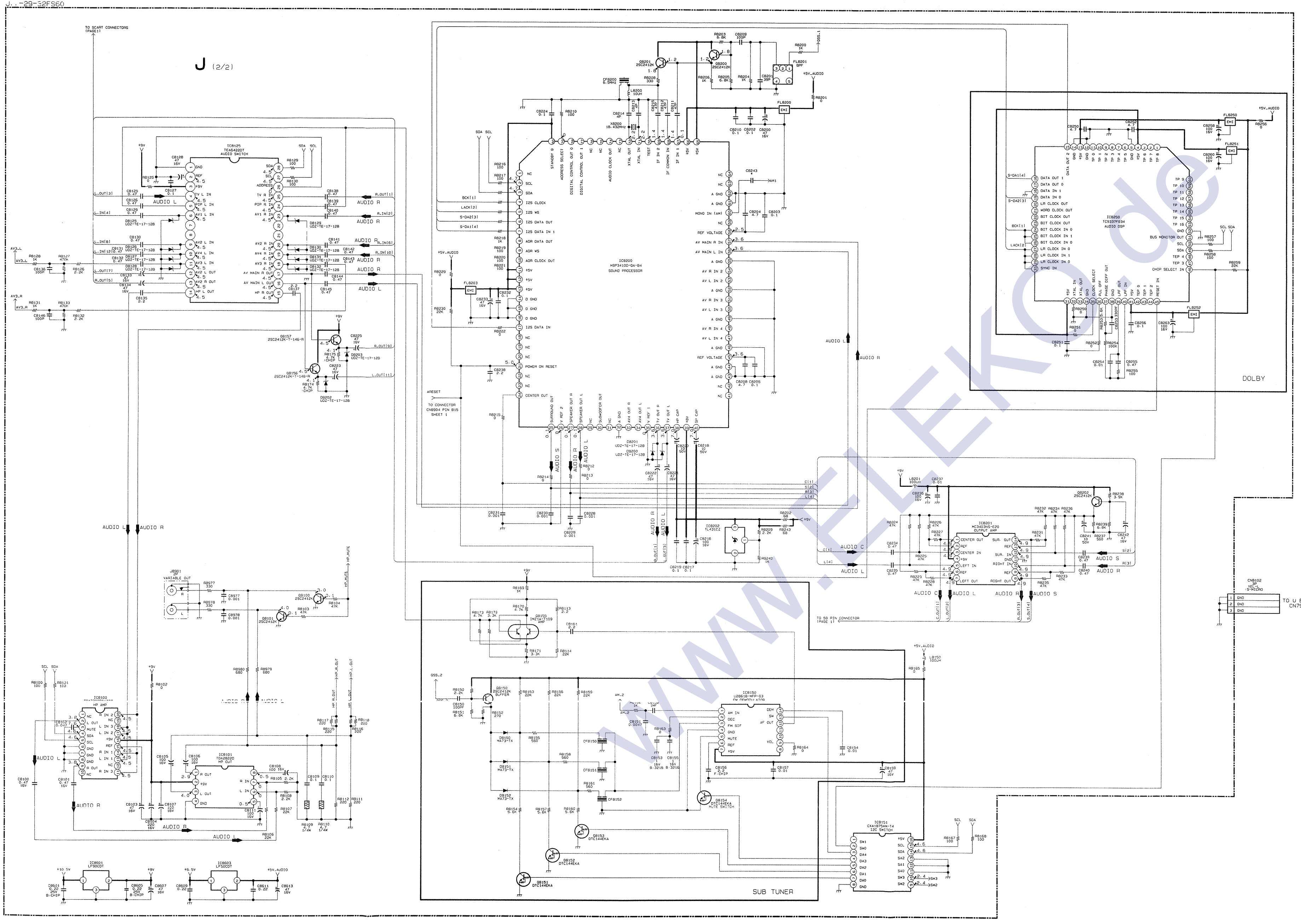


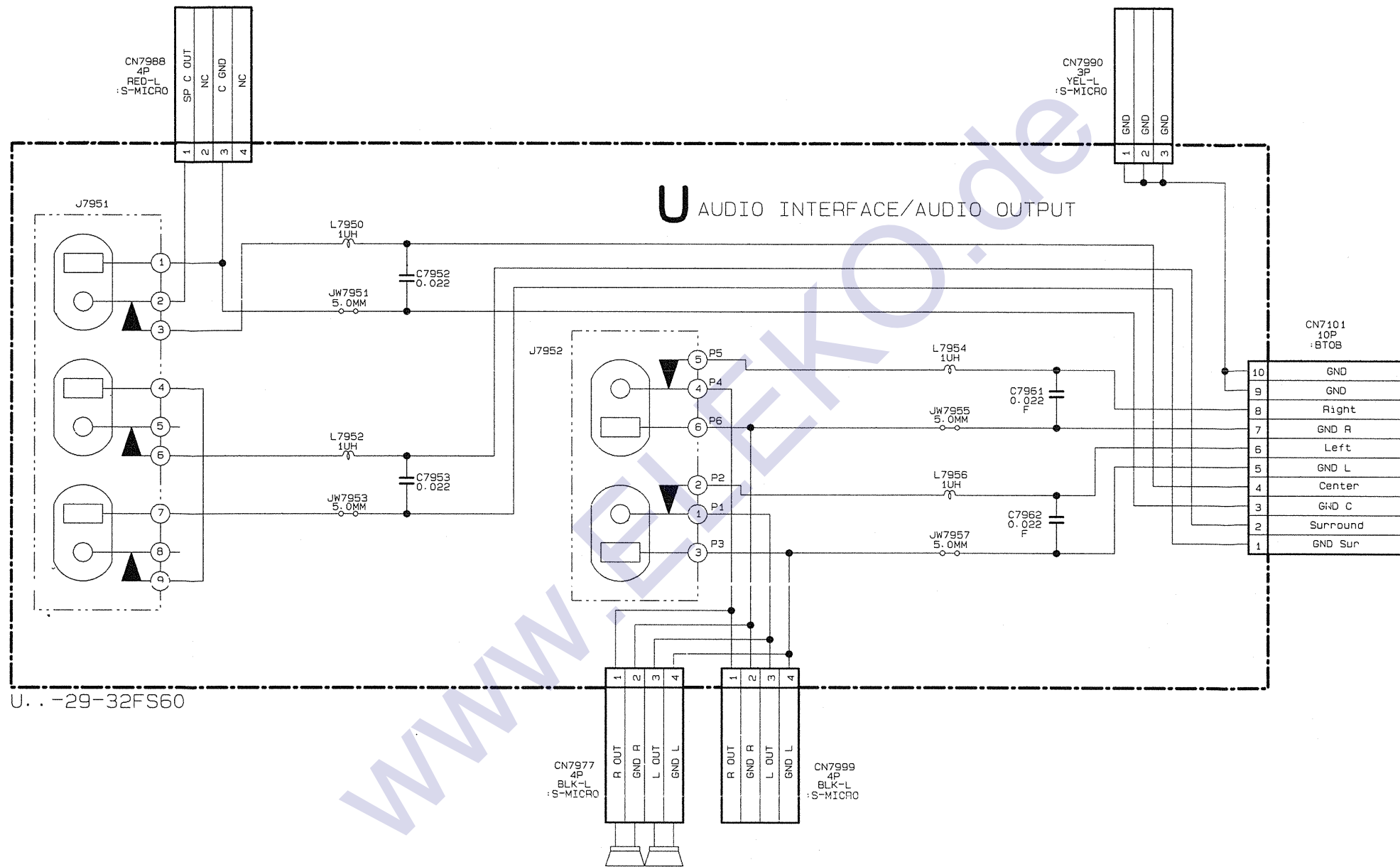
J BOARD MARK

Ref	29FS60A	29FS60B	29FS60D	29FS60E	29FS60K	29FS60R	29FS60U	32FS60A	32FS60B	32FS60D	32FS60E
C8243	-	0.33MF	-	-	-	-	-	-	0.33MF	-	-
C8455	0.22MF	0.22MF	0.22MF	0.22MF	0.22MF	0.22MF	0.22MF	0.22MF	-	0.22MF	0.22MF
D8349	-	DA204K-T-146	-	-	-	-	-	-	DA204-T-146	-	-
Q8311	-	2SC242K-T-146-R	-	-	-	-	-	-	2SC242K-T-146-R	-	-
R8305	-	1K	-	-	-	-	-	-	1K	-	-
R8346	SHORT 0	-	SHORT 0	SHORT 0	SHORT 0	SHORT 0	SHORT 0	SHORT 0	-	SHORT 0	SHORT 0
R8347	-	100	-	-	-	-	-	-	100	-	-
R8348	-	SHORT 0	-	-	-	-	-	-	SHORT 0	-	-
R8349	-	1M	-	-	-	-	-	-	1M	-	-

Waveforms J1(1/2) Board



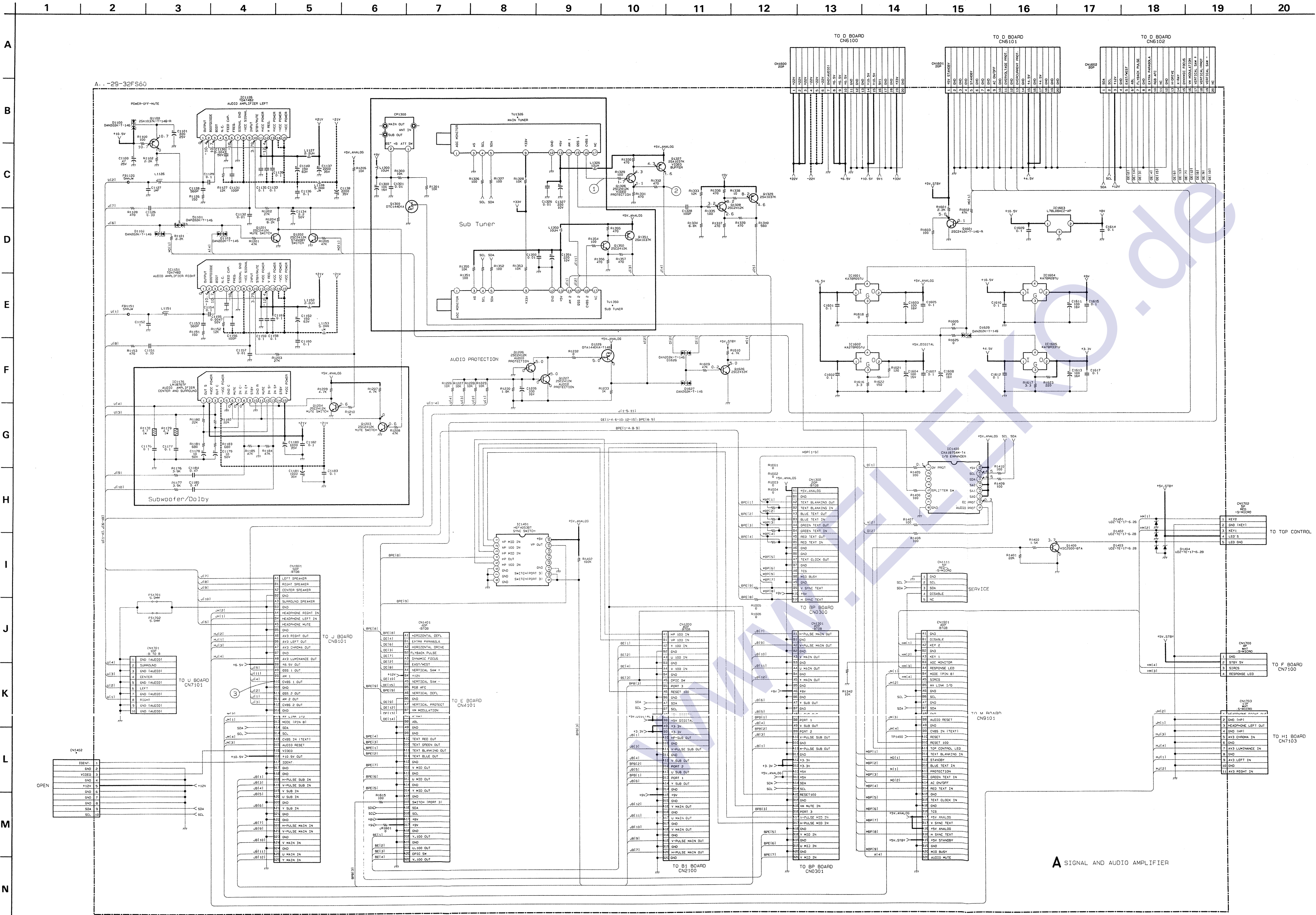




TO A BOARD
CN1701

U...-29-32FS60

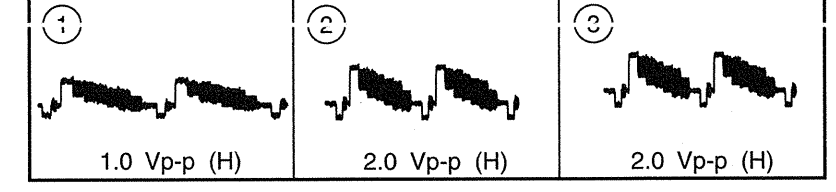
WWW.ELEKTRONIK.de



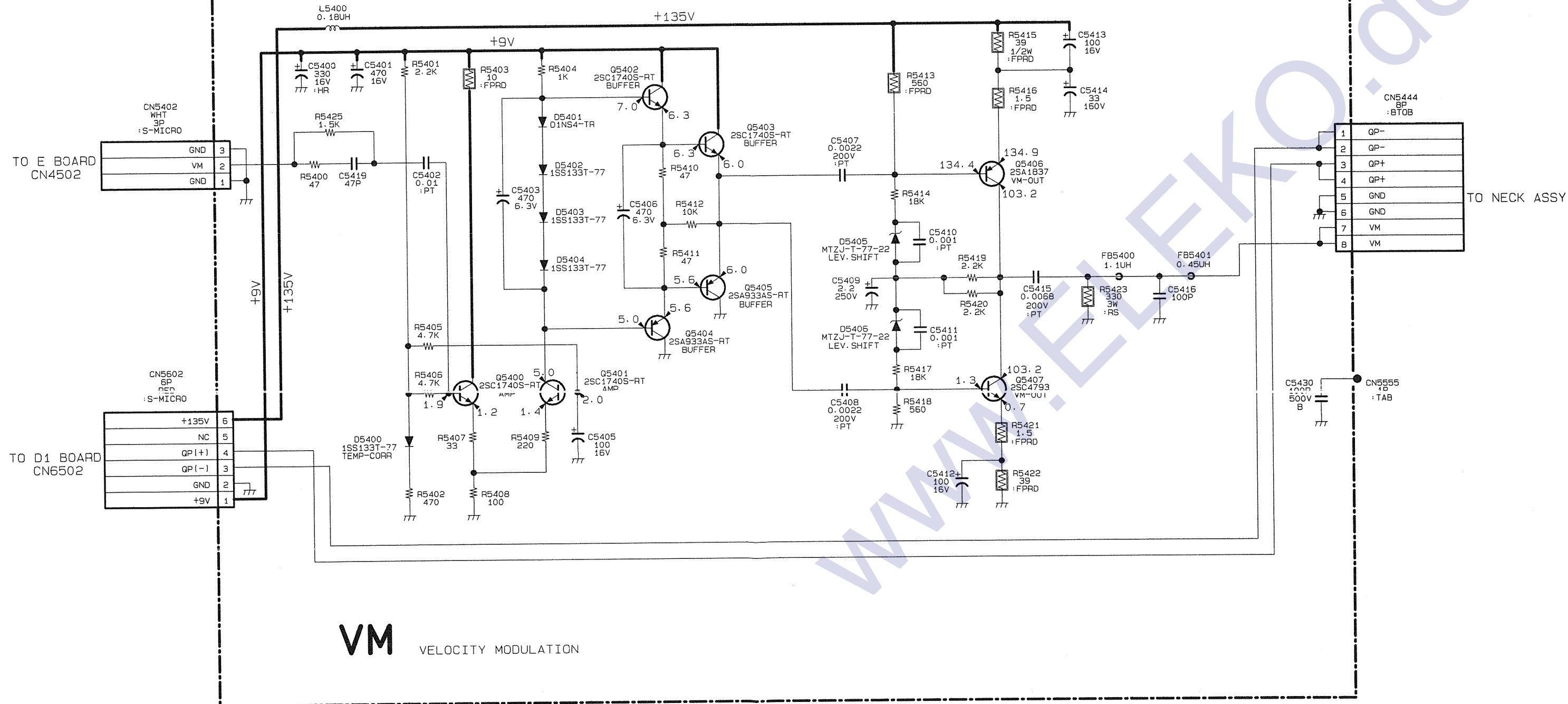
A BOARD MARK

Ref	29FS60A	29FS60B	29FS60D	29FS60E	29FS60K	29FS60R	29FS60U	32FS60A	32FS60B	32FS60D	32FS60E
CN1402	-	10PIN	-	-	-	-	-	-	10PIN	-	-
R1210	47K 5%	47K 0.5%	47K 5%	47K 5%	47K 5%	47K 5%	47K 0.5%	47K 5%	47K 5%	47K 5%	47K 5%
TU126	TUNER/VIF (AEP)	TUNER/VIF (FR)	TUNER/VIF (AEP)	TUNER/VIF (AEP)	TUNER/VIF (AEP)	TUNER/VIF (AEP)	TUNER/VIF (UK)	TUNER/VIF (AEP)	TUNER/VIF (FR)	TUNER/VIF (AEP)	TUNER/VIF (AEP)
TU130	TUNER/VIF (AEP)	TUNER/VIF (FR)	TUNER/VIF (AEP)	TUNER/VIF (AEP)	TUNER/VIF (AEP)	TUNER/VIF (AEP)	TUNER/VIF (UK)	TUNER/VIF (AEP)	TUNER/VIF (FR)	TUNER/VIF (AEP)	TUNER/VIF (AEP)

Waveforms A Board



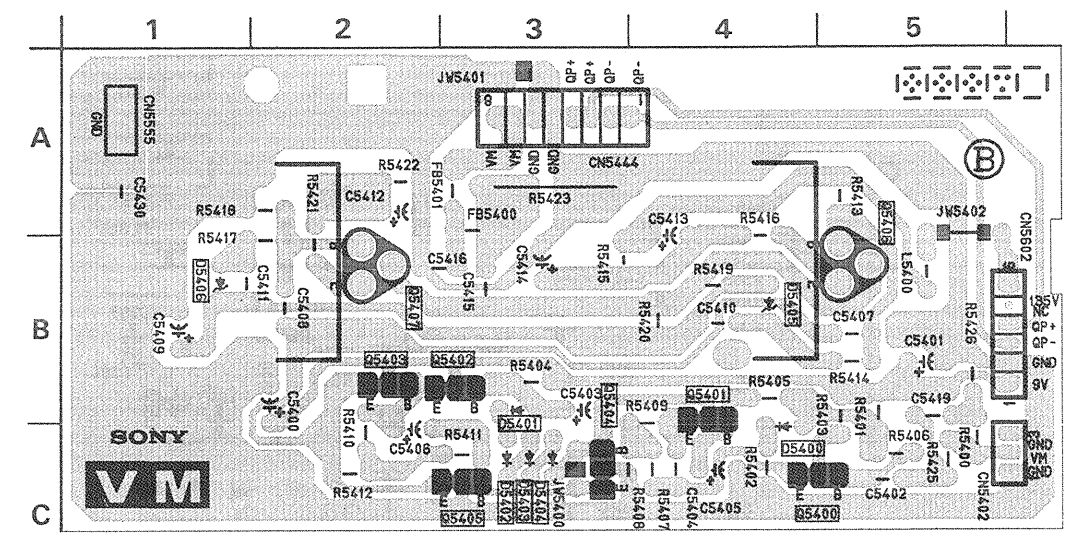
VM. -29-32FS60

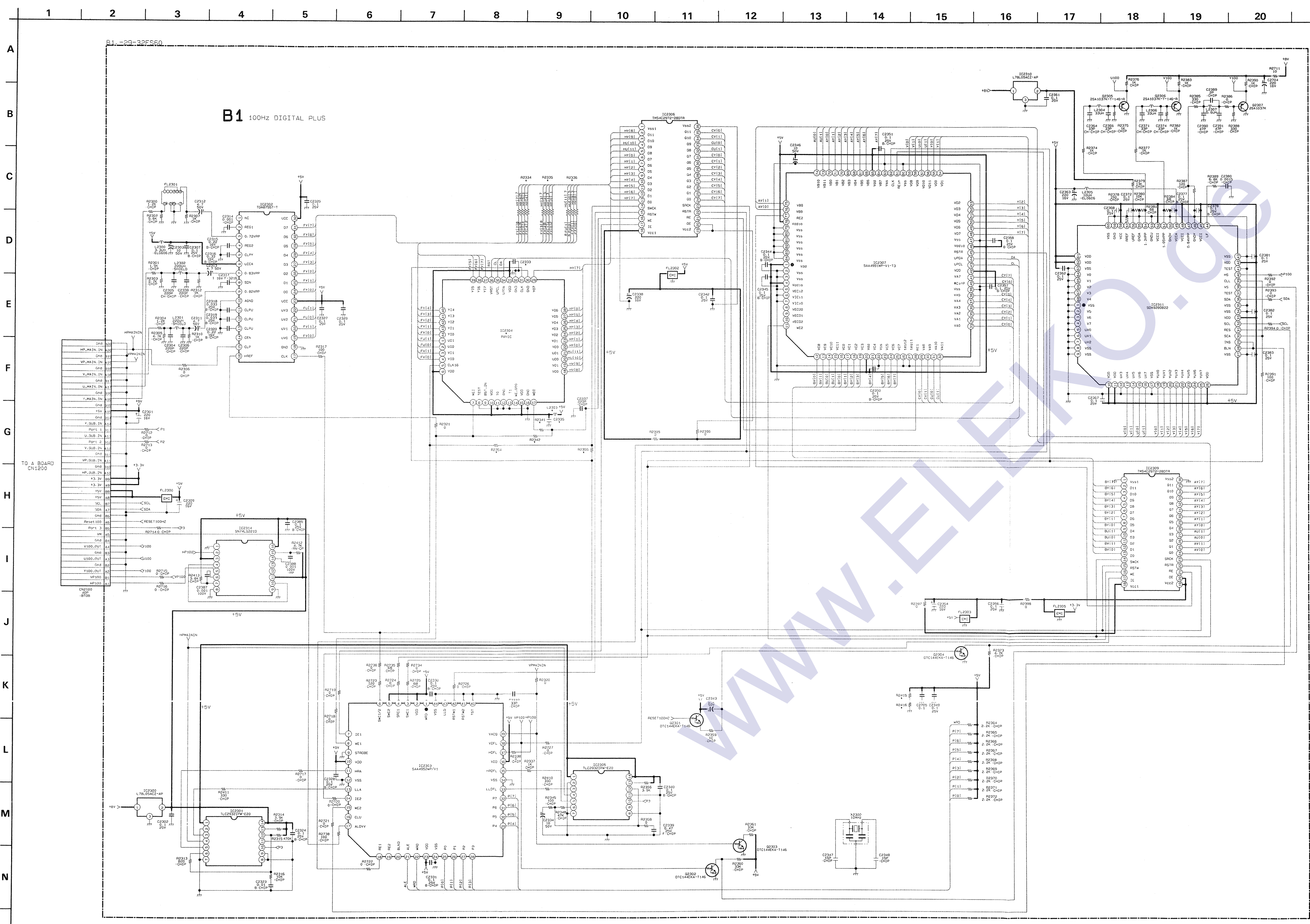


VM VELOCITY MODULATION

VM [VELOCITY MODULATION]

VM Board





B1 [100Hz DIGITAL PLUS]

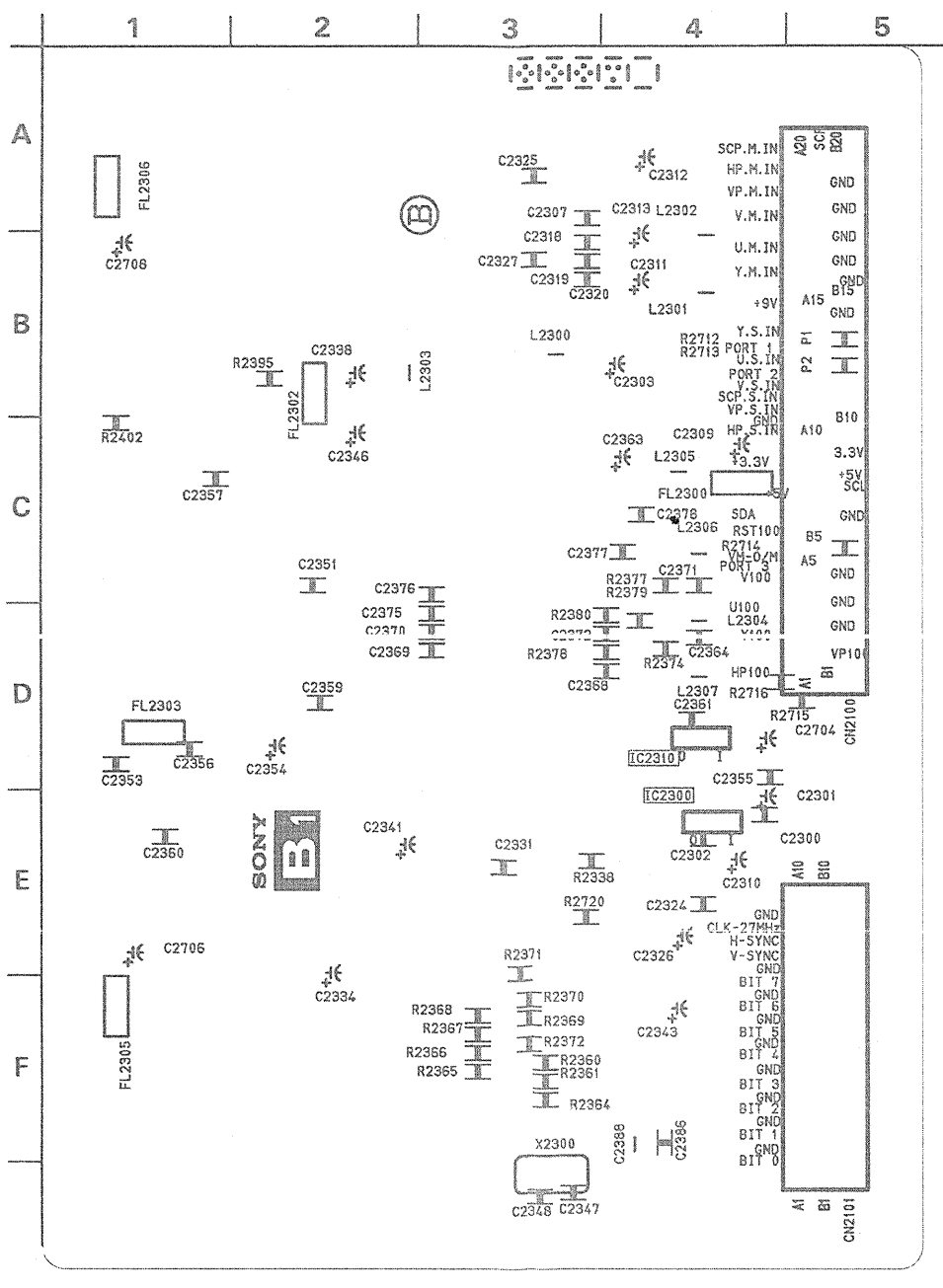
B1 BOARD * MARK

Ref	29FS60A	29FS60B	29FS60D	29FS60E	29FS60K	29FS60R	29FS60U	32FS60A	32FS60B	32FS60D	32FS60E
C2333	-	-	-	-	-	-	-	0.1MF	0.1MF	0.1MF	0.1MF
C2335	-	-	-	-	-	-	-	0.1MF	0.1MF	0.1MF	0.1MF
IC2304	-	-	-	-	-	-	-	SAA4995WP-V1-T3	SAA4995WP-V1-T3	SAA4995WP-V1-T3	SAA4995WP-V1-T3
L2303	-	-	-	-	-	-	-	3.3UH	3.3UH	3.3UH	3.3UH
R2334	RES.CHIP NETWORK 10	RES.CHIP NETWORK 10	RES.CHIP NETWORK 10	RES.CHIP NETWORK 10	RES.CHIP NETWORK 10	RES.CHIP NETWORK 10	RES.CHIP NETWORK 10	-	-	-	-
R2335	RES.CHIP NETWORK 10	RES.CHIP NETWORK 10	RES.CHIP NETWORK 10	RES.CHIP NETWORK 10	RES.CHIP NETWORK 10	RES.CHIP NETWORK 10	RES.CHIP NETWORK 10	-	-	-	-
R2336	RES.CHIP NETWORK 10	RES.CHIP NETWORK 10	RES.CHIP NETWORK 10	RES.CHIP NETWORK 10	RES.CHIP NETWORK 10	RES.CHIP NETWORK 10	RES.CHIP NETWORK 10	-	-	-	-
R2341	-	-	-	-	-	-	-	SHORT 0	SHORT 0	SHORT 0	SHORT 0
R2342	SHORT 0	SHORT 0	SHORT 0	SHORT 0	SHORT 0	SHORT 0	SHORT 0	-	-	-	-
R2354	SHORT 0	SHORT 0	SHORT 0	SHORT 0	SHORT 0	SHORT 0	SHORT 0	-	-	-	-
R2355	-	-	-	-	-	-	-	SHORT 0	SHORT 0	SHORT 0	SHORT 0
R2415	SHORT 0	SHORT 0	SHORT 0	SHORT 0	SHORT 0	SHORT 0	SHORT 0	-	-	-	-

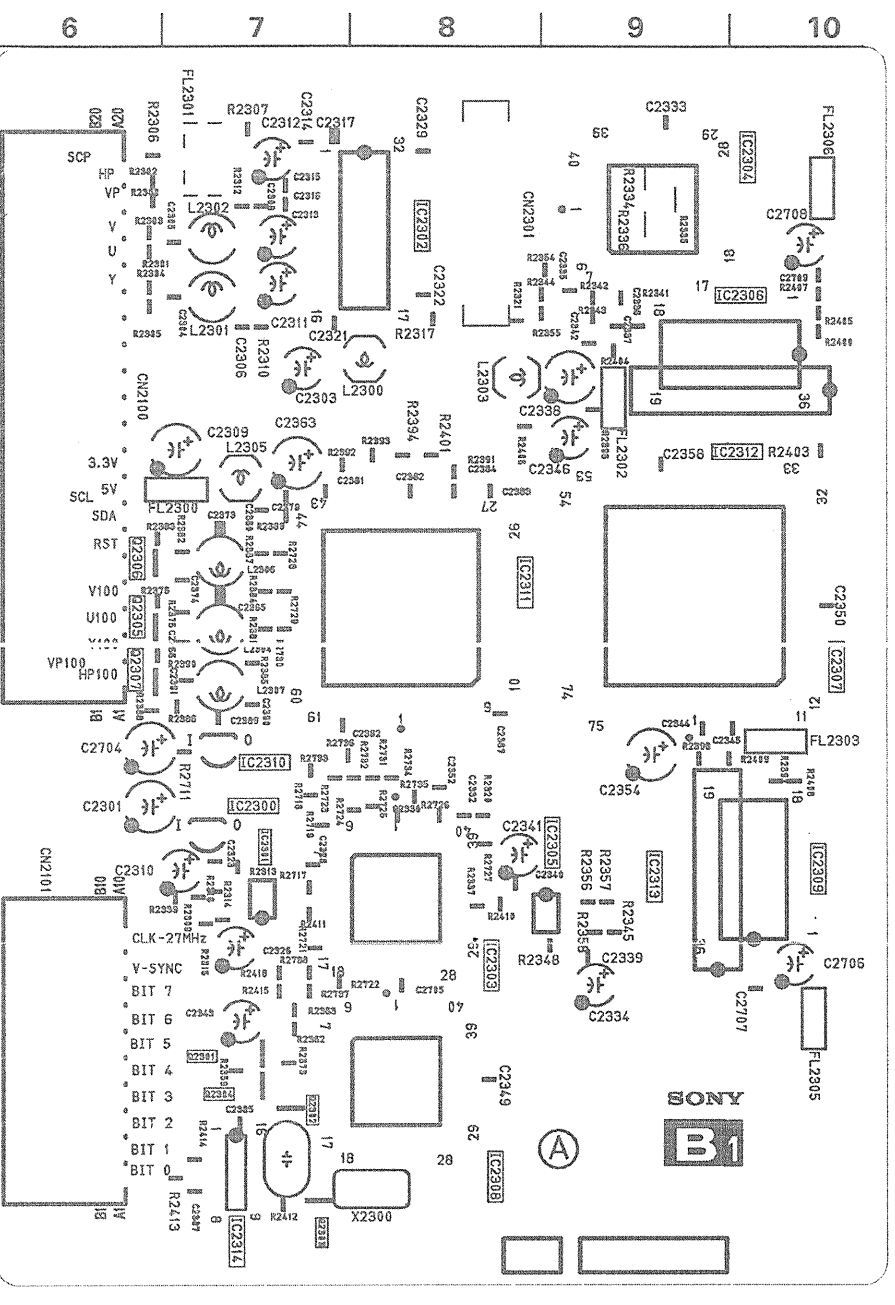
B1 BOARD

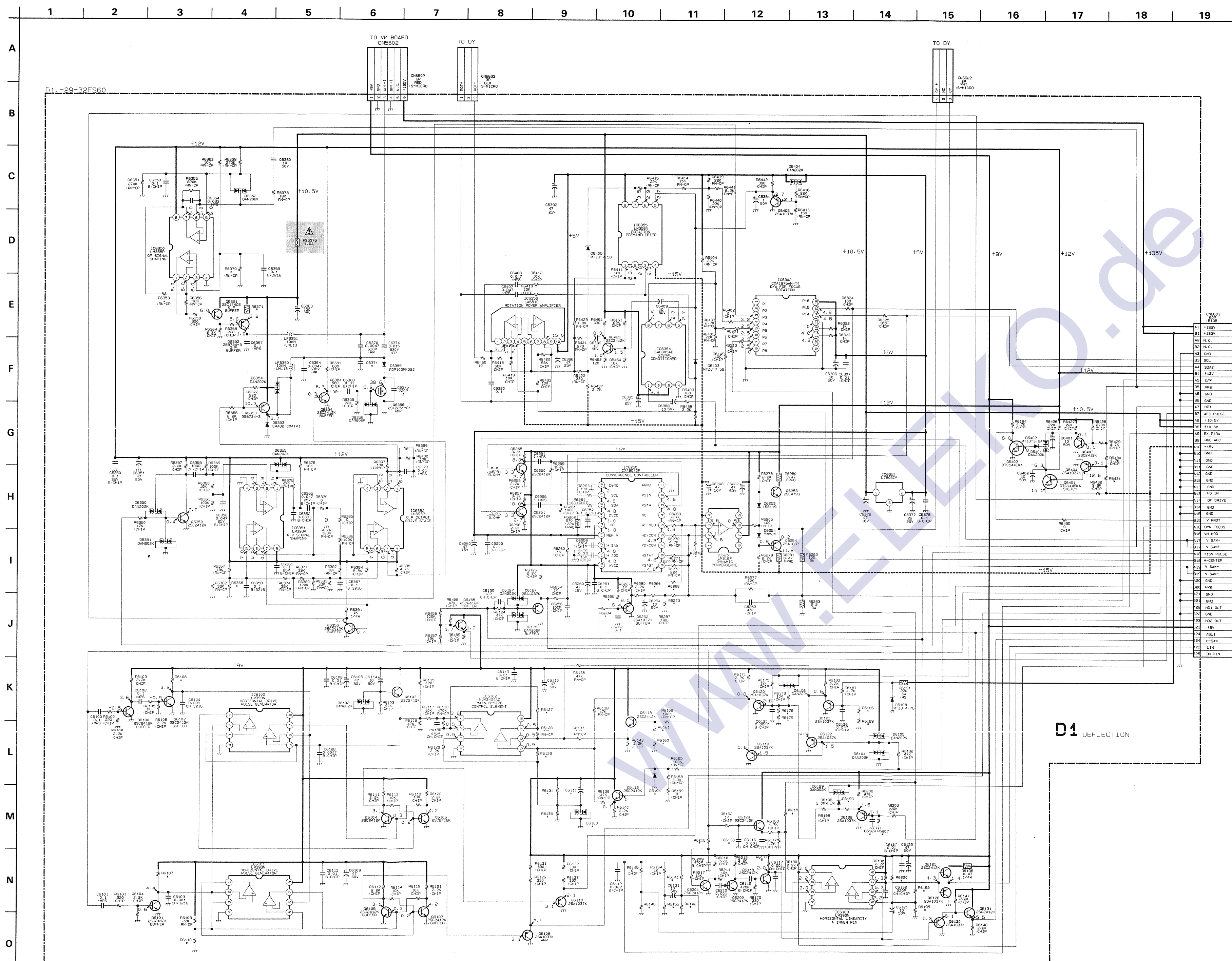
IC	IC
IC2300	E - 4
IC2301	A - 11
IC2302	B - 9
IC2305	E - 8
IC2306	B - 9
IC2307	D - 10
IC2309	E - 10
IC2310	D - 7

B1 Board <Conductor Side>



B1 Board <Component Side>



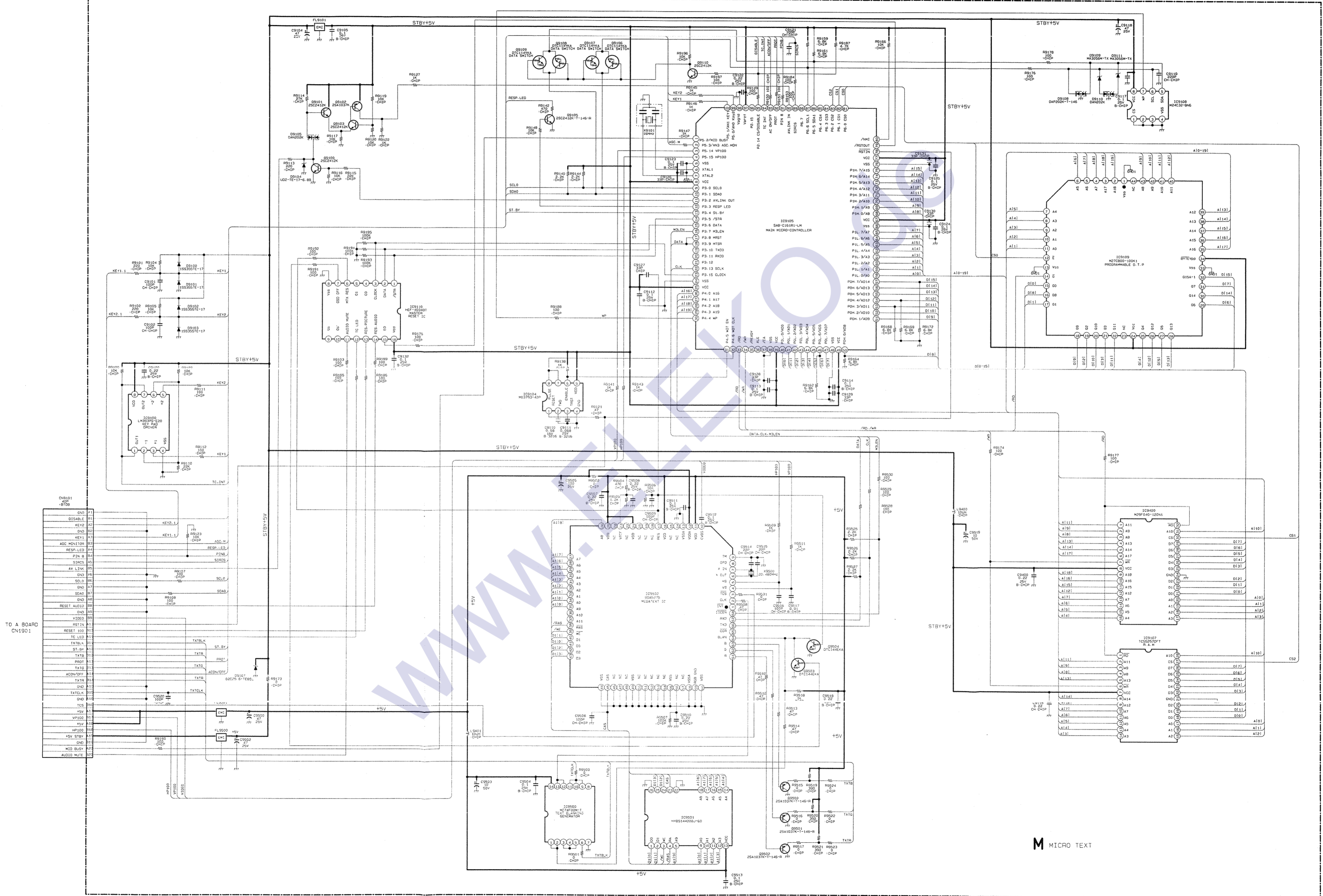


D1 BOARD * MARK

Ref	29FS60A	29FS60B	29FS60D	29FS60E	29FS60K	29FS60R	29FS60U	32FS60A	32FS60B	32FS60D	32FS60E
C6111	-	-	-	-	-	-	-	47MF	47MF	47MF	47MF
C6129	0.1MF	0.1MF	0.1MF	0.1MF	0.1MF	0.1MF	0.1MF	0.33MF	0.33MF	0.33MF	0.33MF
C6130	220PF	220PF	220PF	220PF	220PF	220PF	220PF	-	-	-	-
C6371	-	-	-	-	-	-	-	0.0047MF	0.0047MF	0.0047MF	0.0047MF
D6100	-	-	-	-	-	-	-	DAN202K-T-146	DAN202K-T-146	DAN202K-T-146	DAN202K-T-146
D6101	-	-	-	-	-	-	-	MTZJ-T-77-4.7B	MTZJ-T-77-4.7B	MTZJ-T-77-4.7B	MTZJ-T-77-4.7B
R6107	2.2K	2.2K	2.2K	2.2K	2.2K	2.2K	2.2K	1.8K	1.8K	1.8K	1.8K
R6108	2.2K	2.2K	2.2K	2.2K	2.2K	2.2K	2.2K	1.8K	1.8K	1.8K	1.8K
R6110	15K	15K	15K	15K	15K	15K	15K	22K	22K	22K	22K
R6127	15K	15K	15K	15K	15K	15K	15K	22K	22K	22K	22K
R6129	-	-	-	-	-	-	-	47K	47K	47K	47K
R6134	-	-	-	-	-	-	-	2.2K	2.2K	2.2K	2.2K
R6135	0.01MF	0.01MF	0.01MF	0.01MF	0.01MF	0.01MF	0.01MF	2.2K	2.2K	2.2K	2.2K
R6141	22K	22K	22K	22K	22K	22K	22K	6.8K	6.8K	6.8K	6.8K
R6142	7.5K	7.5K	7.5K	7.5K	7.5K	7.5K	7.5K	2.2K	2.2K	2.2K	2.2K
R6146	4.7K	4.7K	4.7K	4.7K	4.7K	4.7K	4.7K	4.7K	4.7K	4.7K	4.7K
R6155	4.7K	4.7K	4.7K	4.7K	4.7K	4.7K	4.7K	100K	100K	100K	100K
R6160	SHORT 0	SHORT 0	SHORT 0	SHORT 0	SHORT 0	SHORT 0	SHORT 0	1K	1K	1K	1K
R6161	8.2K	8.2K	8.2K	8.2K	8.2K	8.2K	8.2K	5.6K	5.6K	5.6K	5.6K
R6174	12K	12K	12K	12K	12K	12K	12K	22K	22K	22K	22K
R6176	22K	22K	22K	22K	22K	22K	22K	SHORT 0	SHORT 0	SHORT 0	SHORT 0
R6179	1.5K	1.5K	1.5K	1.5K	1.5K	1.5K	1.5K	3.3K	3.3K	3.3K	3.3K
R6186	3.3K	3.3K	3.3K	3.3K	3.3K	3.3K	3.3K	1K	1K	1K	1K
R6189	SHORT 0	SHORT 0	SHORT 0	SHORT 0	SHORT 0	SHORT 0	SHORT 0	1K	1K	1K	1K
R6192	3.9K	3.9K	3.9K	3.9K	3.9K	3.9K	3.9K	22K	22K	22K	22K
R6195	22K	22K	22K	22K	22K	22K	22K	68K	68K	68K	68K
R6198	22K	22K	22K	22K	22K	22K	22K	47K	47K	47K	47K
R6199	22K	22K	22K	22K	22K	22K	22K	47K	47K	47K	47K
R6200	-	-	-	-	-	-	-	270K	270K	270K	270K
R6207	150K	150K	150K	150K	150K	150K	150K	330K	330K	330K	330K
R6215	22K	22K	22K	22K	22K	22K	22K	47K	47K	47K	47K
R6216	47K	47K	47K	47K	47K	47K	47K	4.7K	4.7K	4.7K	4.7K
R6265	1K	1K	1K	1K	1K	1K	1K	180K	180K	180K	180K
R6268	-	-	-	-	-	-	-	33K	33K	33K	33K
R6273	22K	22K	22K	22K	22K	22K	22K	-	-	-	-
R6276	39K	39K	39K	39K	39K	39K	39K	30K	30K	30K	30K
R6284	470K	470K	470K	470K	470K	470K	470K	330K	330K	330K	330K
R6286	10K	10K	10K	10K	10K	10K	10K	6.8K	6.8K	6.8K	6.8K
R6353	5.1K	5.1K	5.1K	5.1K	5.1K	5.1K	5.1K	6.8K	6.8K	6.8K	6.8K
R6368	180K	180K	180K	180K	180K	180K	180K	220K	220K	220K	220K
R6370	10K	10K	10K	10K	10K	10K	10K	12K	12K	12K	12K
R6371	56	56	56	56	56	56	56	82	82	82	82
R6399	180K	180K	180K	180K	180K	180K	180K	150K	150K	150K	150K
R6431	-	-	-	-	-	-	-	470K	470K	470K	470K

D1 DEPLETION

M. -29-32FS60

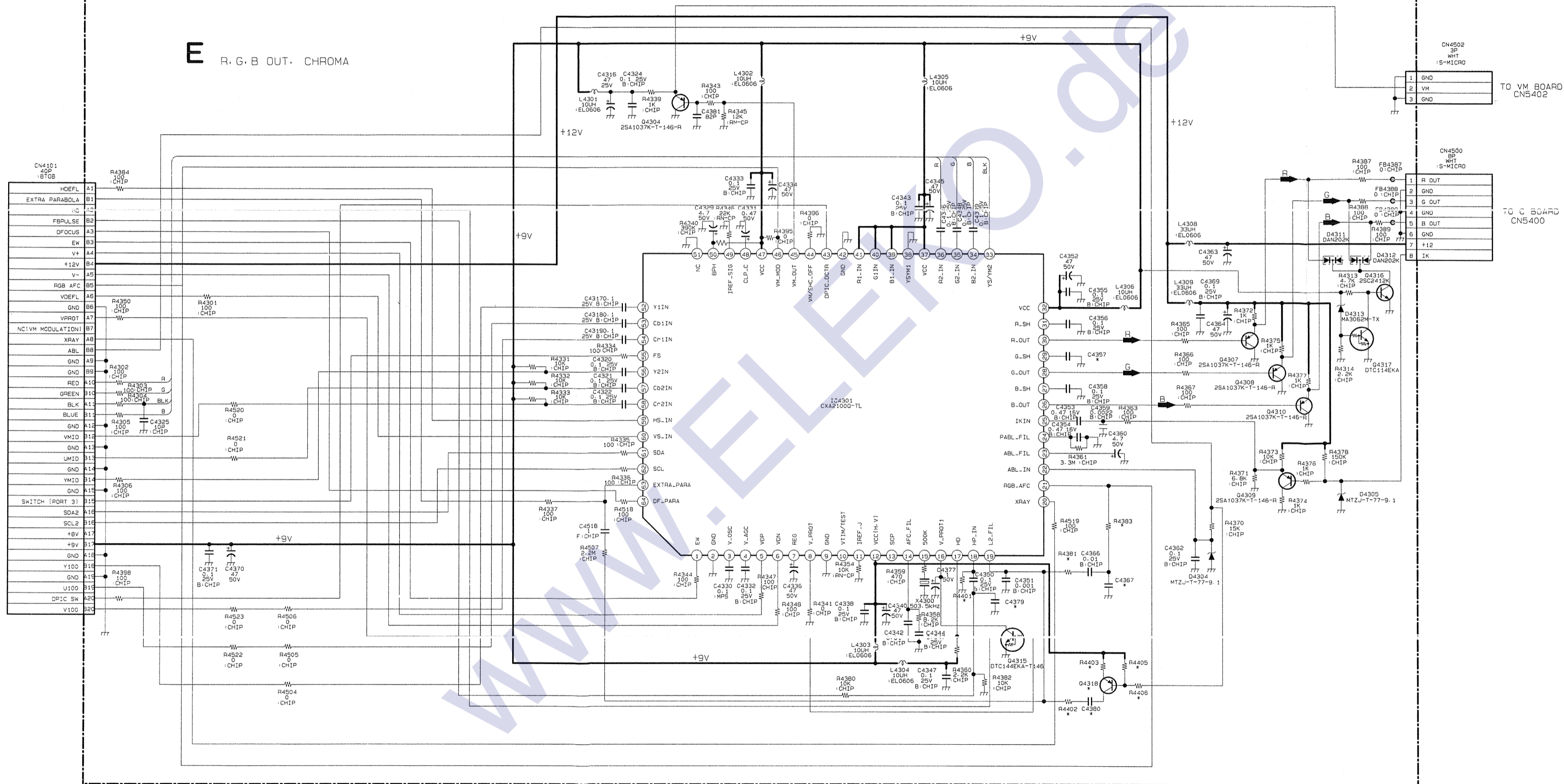


M MICRO TEXT

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18

F. -29-32FS60

E R.G.B OUT. CHROMA



TO A BOARD
CV1401

TO VM BOARD
CN5402

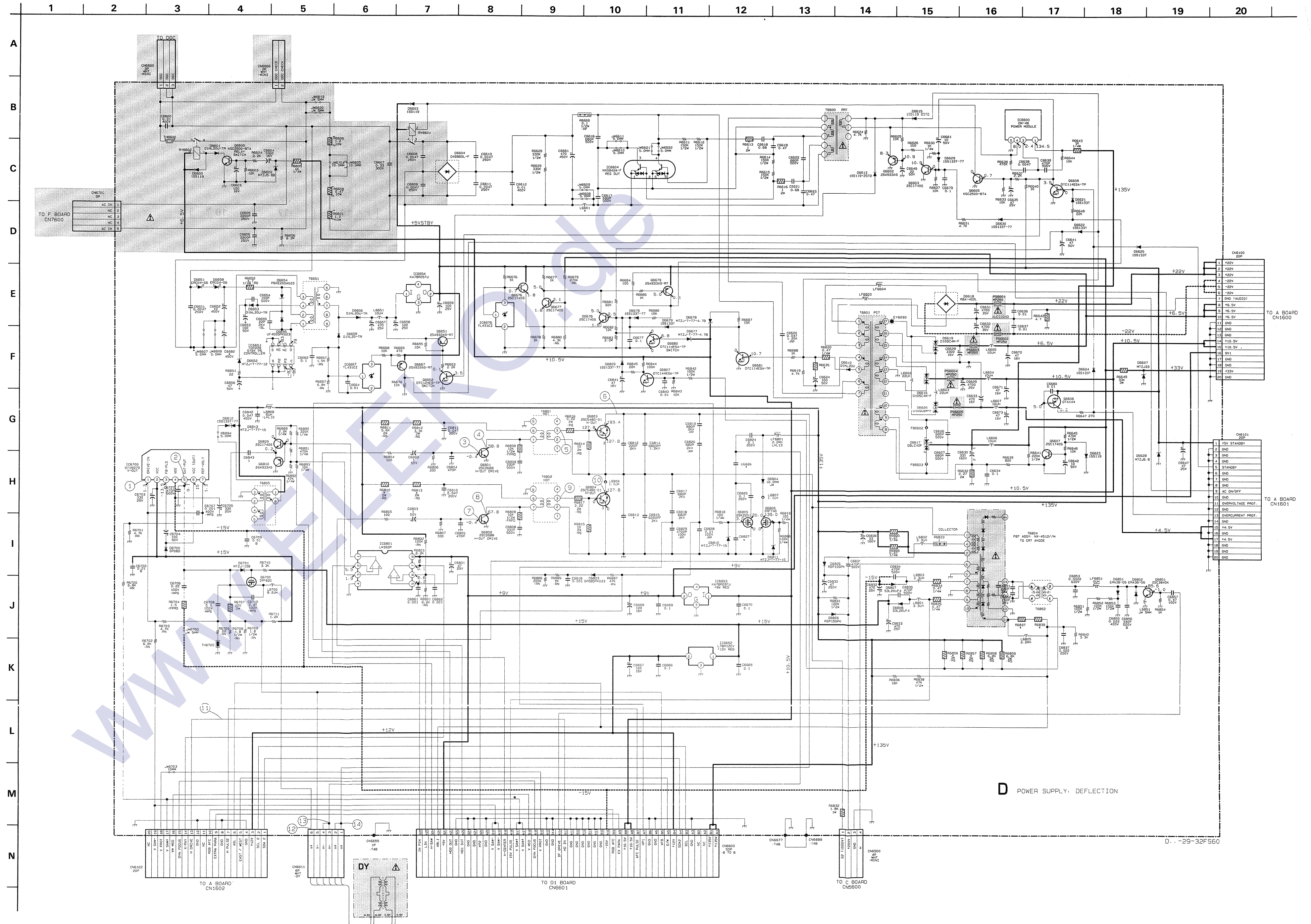
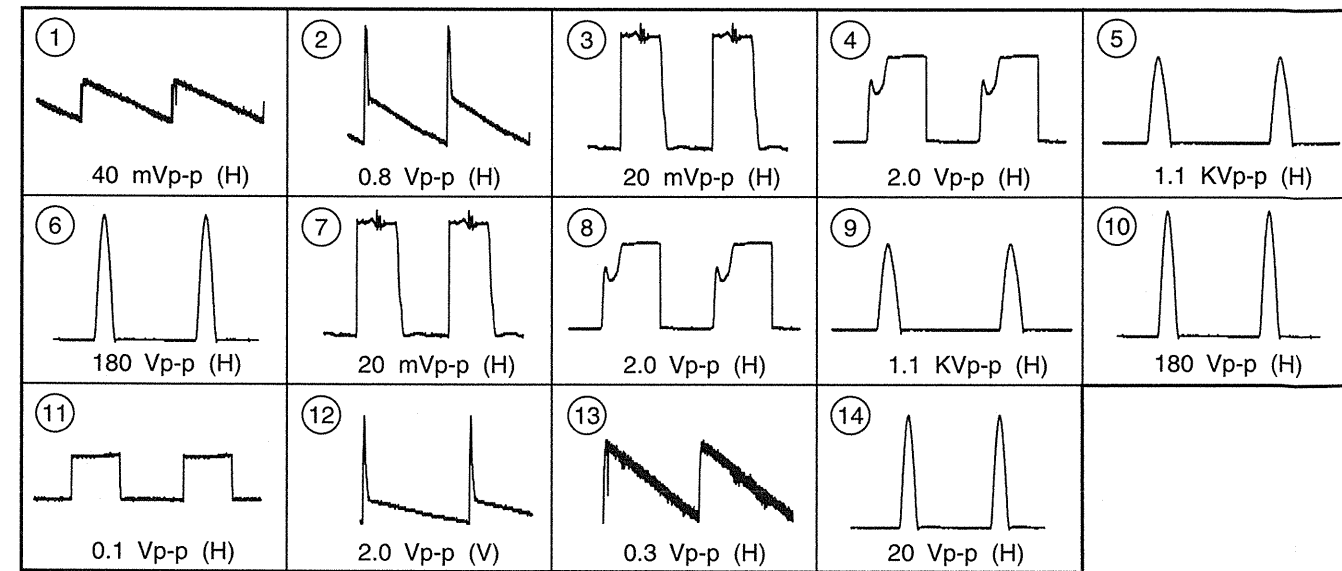
TO C BOARD
CN5400

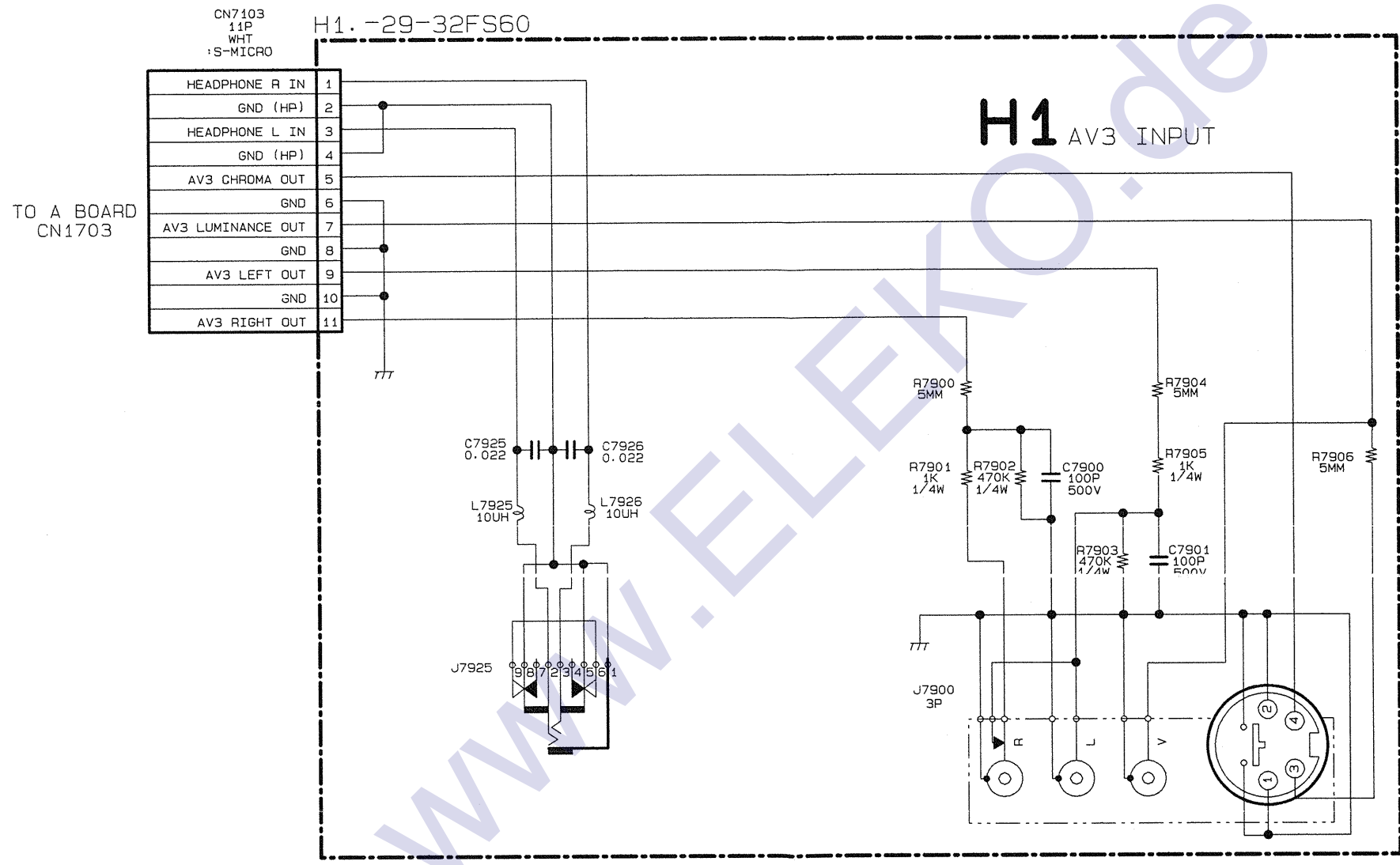
A
B
C
D
E
F
G
H
I
J

D BOARD * MARK

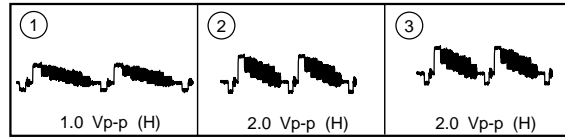
Ref	29FS60A	29FS60B	29FS60D	29FS60E	29FS60K	29FS60R	29FS60U	32FS60A	32FS60B	32FS60D	32FS60E
C6682	22MF	22MF	22MF	22MF	22MF	22MF	22MF	-	-	-	-
C6813	100PF	100PF	100PF	100PF	100PF	100PF	100PF	470PF	470PF	470PF	470PF
C6826	0.47MF	0.47MF	0.47MF	0.47MF	0.47MF	0.47MF	0.47MF	0.56MF	0.56MF	0.56MF	0.56MF
C6827	0.12MF	0.12MF	0.12MF	0.12MF	0.12MF	0.12MF	0.12MF	0.1MF	0.1MF	0.1MF	0.1MF
L6601	2.2MMH	2.2MMH	2.2MMH	2.2MMH	2.2MMH	2.2MMH	2.2MMH	JW (5.0MM)	JW (5.0MM)	JW (5.0MM)	JW (5.0MM)
R6635	0.47	0.47	0.47	0.47	0.47	0.47	0.47	JW (5.0MM)	JW (5.0MM)	JW (5.0MM)	JW (5.0MM)
R6610	3.3K	3.3K	3.3K	3.3K	3.3K	3.3K	3.3K	3.9K	3.9K	3.9K	3.9K
R6813	3.3K	3.3K	3.3K	3.3K	3.3K	3.3K	3.3K	3.3K	2W	3.3K	3.3K
R6837	2.2K	2.2K	2.2K	2.2K	2.2K	2.2K	2.2K	2.2K	2W	2.2K	2.2K
R6839	2.2K	2.2K	2.2K	2.2K	2.2K	2.2K	2.2K	2.2K	2W	2.2K	2.2K
R6856	5.6K	5.6K	5.6K	5.6K	5.6K	5.6K	5.6K	6.8K	6.8K	6.8K	6.8K
R6857	5.6K	5.6K	5.6K	5.6K	5.6K	5.6K	5.6K	6.8K	6.8K	6.8K	6.8K

Waveforms D Board

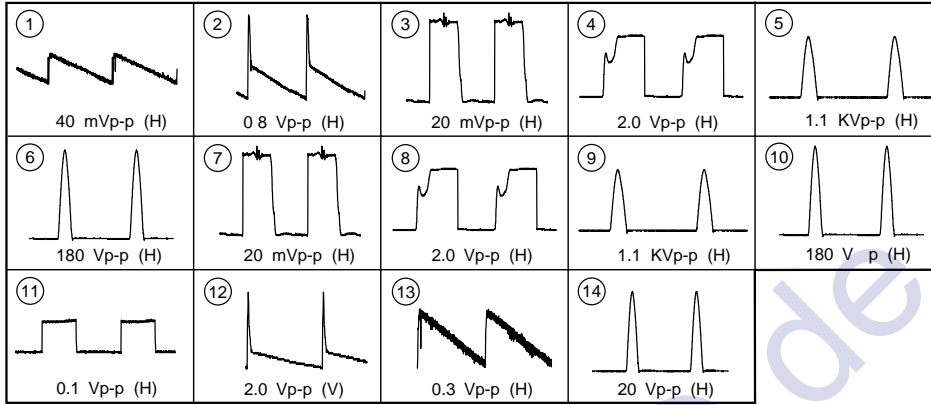




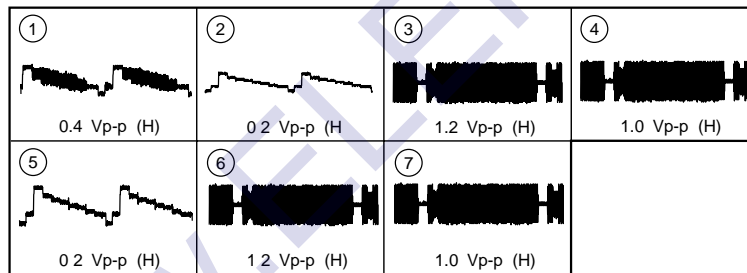
Waveforms A Board



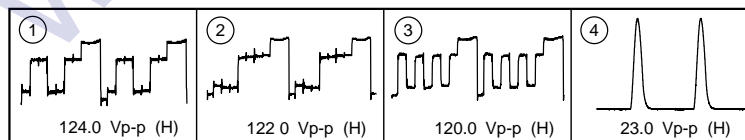
Waveforms D Board



Waveforms J1(1/2) Board

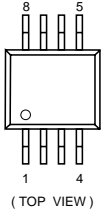


Waveforms C Board

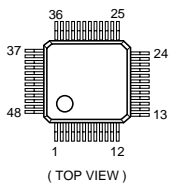


5-4 SEMICONDUCTORS

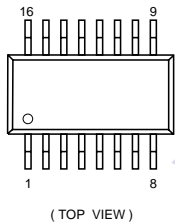
BA7046F
BA7046F-T1
LM393PS-E20
MB3793-42NF
MB3793-42NF-ER
NJM2240M
NJM2240M(TE2)
NJM3404AD



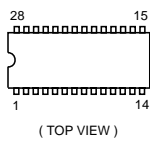
CXA1855Q-T6



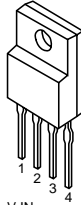
CXA1875AM-T4
HE4094BT
MC14052BDR2
MC74F157ADR2
SN74LS221D
74HCT4046AD/S470



CXD2053S
TDA4780/V3

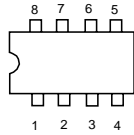


KA78R05TU
KA78R09TU
KA78R33TU



1 : V IN
2 : V OUT
3 : GND
4 : ON/OFF CONTROL

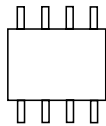
LM393D
M5216P
M24C32-BN6
ST24C16FB6
TDA2822M
UPC393C



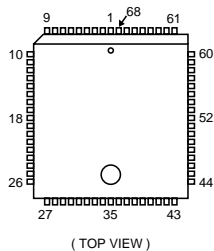
LM78L05ACZ
LM78L12ACZ
L78L05ACZ-AP
L78L12ACZ-AP



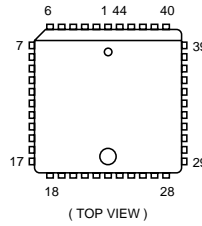
MB3793-42PNF-ER



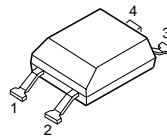
MSP3410D-QA-B4
SAA7185WP
SDA5273P-C134-GEG
SDA5275



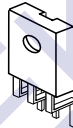
M27C800-100K1



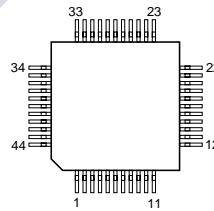
PC123F2
PC123FY2



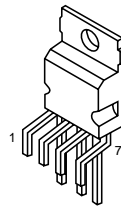
SBX1981-51



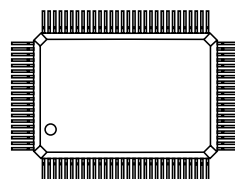
SDA9361



STV9379



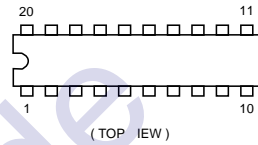
SAB-C161R1-LM



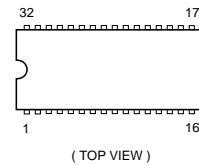
TC55257DFTL-70V-EL



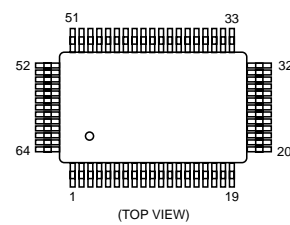
TDA7309D013TR



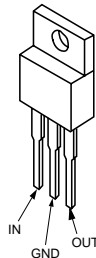
SDA9288X-B121
TDA9143/N2
TDA9144/N2
TDA9170T



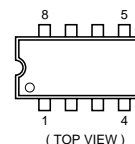
TDA9320H-N1-518



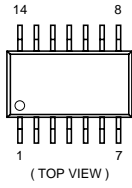
TEA6422DT
LM393N



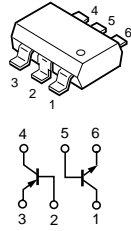
TOP209P



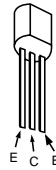
U2860B-BFPG3
74LVC08D



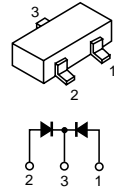
IMZ1A-T109



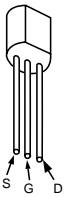
2SC2500-B
2SC2551-O
2SC2551O-TPE2



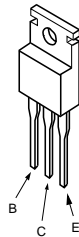
DAN202K
DAN202K-T-146



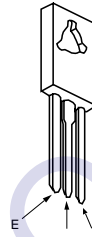
BC546B
BC556B



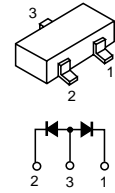
IRF614
IRF620



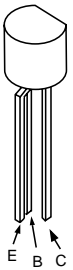
2SC2688-LK
2SC3840K



DAP202K
DAP202K-T-146



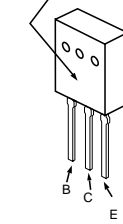
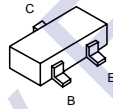
BF199
BF199-AMMO



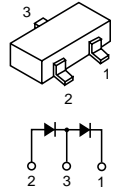
DTA144EK
DTA144EK-T146
DTC114EK
DTC114YKA-T146
DTC123EK
DTC123EK-T146
DTC124EKA-T146
DTC144EK
DTC144EK-T146
2SA1037K-T-146-R
2SA1162-G
2SC2412K-QR
2SC2412K-T-1 6-R

2SC3997CA

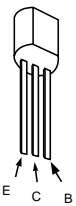
MARKING SIDE VIEW



DA204K
DA204K-T-146



BF421-AMMO

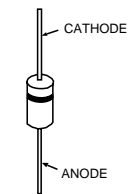


DTA144ESA
DTA144ESA-TP
DTC114ESA-TP
DTC144ESA-TP
2SA1175-HFE
2SA733-K
2SA933AS-RT
2SA933AS-QRT
2SA933S-RT
2SC1740S-RT
2SC2785-HFE

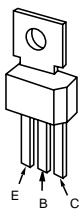
2SC4793



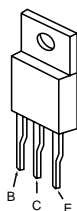
D1NL20-TA
D1NL20U-TR
D1N54-TR
EGP20G
EL1Z
GP08D
GP08DPKG23
R2K-V1
RGP02-20EG23
RGP10GPKG23
RGP15GPKG23
S2LA20F
1SS133T-77
1SS83
1SS83TD



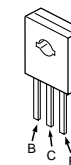
BF87-127



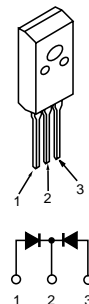
2SA1837



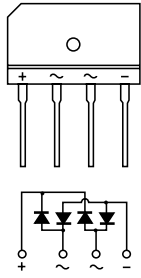
2SD2396H



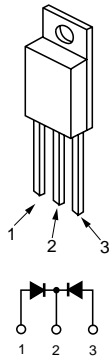
D10SC4M
D10SC6M



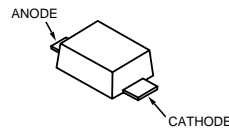
D4SB60L
D4SB60L-F
RBA-402L



ESAC39M-06C
ESAC39M-06CF38



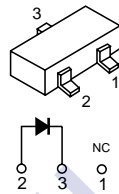
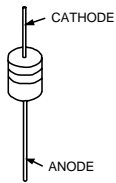
UF4005PKG23



ERA38-06TP1
ERA82-004TP1
GP08DPKG23
MTZJ-T-77-12
MTZJ-T-77-15
MTZJ-T-77-15
MTZJ-T-77-2.2B
MTZJ-T-77-22
MTZJ-T-77-33C
MTZJ-T-77-3.6B
MTZJ-T-77-4.7B

MTZJ-T-77-5.6B
MTZJ-T-77-6.8
MTZJ-T-77-7.5B
MTZJ-T-77-9.1
MTZJ-33C
RD5.6ESB2
RD9.1ESB2
PGKE200AG23
1SS119-25
1SS119-25TD

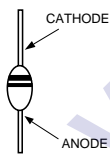
MA3033-L
MA3033L-TX
MA3056M-TX
MA3062M-TX
MA3030-H-(TX)



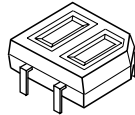
MA3051L TX



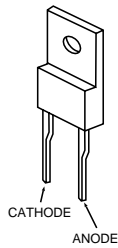
ERC04-06SE



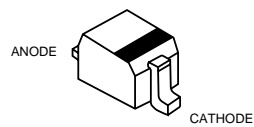
MA73-TX



ERD08M-15



RD12SB2
UDZ-TE-17-6.2B
UDZ-TE-17-6.8B
UDZ-TE-12B



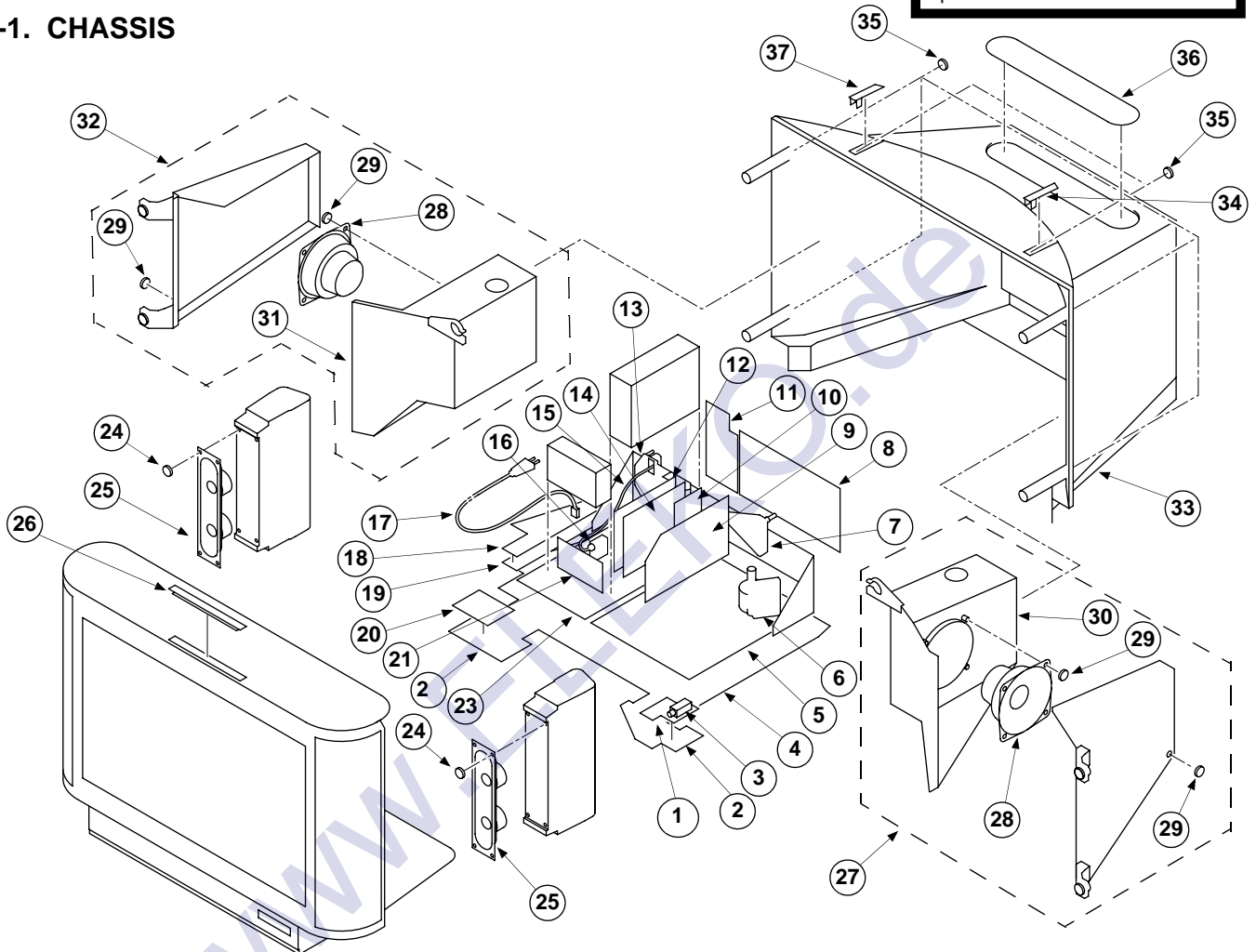
SECTION 6 EXPLODED VIEWS

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.

6-1. CHASSIS

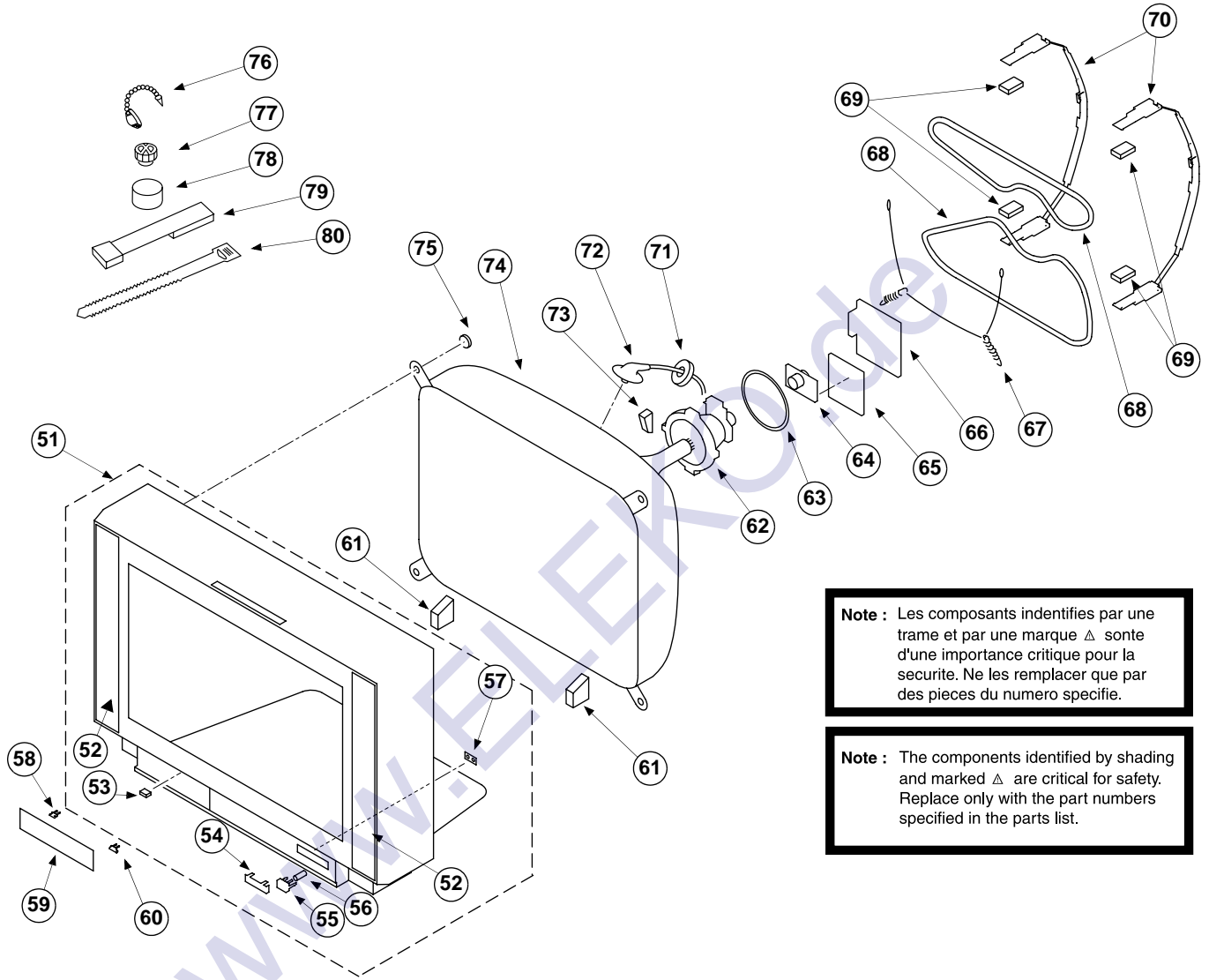


REF. NO.	PART.NO	DESCRIPTION	REMARK	REF. NO.	PART.NO	DESCRIPTION	REMARK
1	*A-1624-073-A	F BOARD, COMPLETE (KV-29FS60)		9	*A-1640-320-A	D1 BOARD, COMPLETE (KV-29FS60)	
	*A-1624-075-A	F BOARD, COMPLETE (KV-32FS60)			*A-1640-325-A	D1 BOARD, COMPLETE (KV-32FS60)	
2	*4-204-551-01	BRACKET, F (KV-29FS60)		10	*A-1640-319-A	E BOARD, COMPLETE (KV-29FS60)	
	*4-204-551-11	BRACKET, F (KV-32FS60)			*A-1640-324-A	E BOARD, COMPLETE (KV-32FS60)	
3	△ 1-571-433-21	SWITCH, PUSH (AC POWER)		11	*A-1648-018-A	U BOARD, COMPLETE (KV-29FS60)	
4	*1-204-549-01	BRACKET, MAIN			*A-1648-017-A	U BOARD, COMPLETE (KV-32FS60)	
5	*A-1640-342-A	D BOARD (29"), COMPLETE (KV-29FS60)		12	*A-1620-117-A	BP BOARD, COMPLETE (KV-29FS60)	
	*A-1640-326-A	D BOARD (32"), COMPLETE (KV-32FS60)			*A-1620-115-A	BP BOARD, COMPLETE (KV-32FS60)	
6	△ 1-453-272-11	TRANSFORMER ASSY, FLYBACK (NX-4512/U2B4)		13	4-204-477-01	BRACKET, J2	
7	4-204-476-01	BRACKET, J1		14	*A-1620-116-A	B1 BOARD, COMPLETE (KV-29FS60)	
8	*A-1651-102-A	J BOARD, COMPLETE (KV-29FS60A/29FS60D/ 29FS60E/29FS60K/ 29FS60R/29FS60U)			*A-1620-114-A	B1 BOARD, COMPLETE (KV-32FS60)	
	*A-1651-106-A	J BOARD, COMPLETE (KV-29FS60B)		15	1-790-082-11	CABLE, RF	
	*A-1651-101-A	J BOARD, COMPLETE (KV-32FS60A/32FS60D/ 32FS60E)		16	1-693-338-11	TUNER/VIF (AEP) (KV-29FS60A/29FS60D/29FS60E/29FS60K 29FS60R/32FS60A/32FS60D/32FS60E)	
	*A-1651-107-A	J BOARD, COMPLETE (KV-32FS60B)			1-693-340-11	TUNER/VIF (FR) (KV-29FS60B/32FS60B)	
					1-693-339-11	TUNER/VIF (UK) (KV-29FS60U)	

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

REF. NO.	PART.NO	DESCRIPTION	REMARK	REF. NO.	PART.NO	DESCRIPTION	REMARK
17	Δ 1-574-062-61	CORD, POWER (WITH CONNECTOR) (KV-29FS60A/29FS60B/29FS60D/29FS60E/29FS60K/ 29FS60R/32FS60A/32FS60B/32FS60D/32FS60E)		24	4-039-358-01	SCREW (4X16), (+) BV TAPPING	
	Δ 1-590-762-21	CORD, POWER (WITH UK PLUG) (KV-29FS60U)		25	1-529-153-11	SPEAKER (4.8X20CM)	
18	*A-1624-074-A	F1 BOARD, COMPLETE (KV-29FS60)		26	1-771-599-11	SWITCH, ARRAY	
	*A-1624-076-A	F1 BOARD, COMPLETE (KV-32FS60)		27	A-1678-188-A	WOOFER (R) ASSY	28-30
19	*4-204-552-01	BRACKET, F1		28	1-529-144-11	SPEAKER (13CM)	
20	*A-1646-170-A	H1 BOARD, COMPLETE (KV-29FS60)		29	4-039-355-01	SCREW (4X12), (+) BV TAPPING	
	*A-1646-174-A	H1 BOARD, COMPLETE (KV-32FS60)		30	*A-1678-158-A	WOOFER (R) ASSY, SP FX	
21	*A-1634-049-A	M BOARD, COMPLETE (KV-29FS60)		31	*A-1678-157-A	WOOFER (L) ASSY, SP FX	
	*A-1634-048-A	M BOARD, COMPLETE (KV-32FS60)		32	A-1678-150-A	WOOFER (L) ASSY	28,29,31
22	4-204-550-01	BRACKET, H (KV-29FS60)		33	4-204-508-01	COVER, REAR (KV-29FS60)	
	4-204-550-11	BRACKET, H (KV-32FS60)			4-204-367-11	COVER, REAR (KV-32FS60)	
23	*A-1630-980-A	A BOARD, COMPLETE (KV-29FS60A/29FS60D/29FS60E/ 29FS60K/29FS60R)		34	4-204-460-01	COVER, SCREW (LEFT) (KV-29FS60)	
	*A-1630-993-A	A BOARD, COMPLETE (KV-29FS60B)			4-204-369-01	COVER, SCREW (LEFT) (KV-32FS60)	
	*A-1630-994-A	A BOARD, COMPLETE (KV-29FS60U)		35	4-302-404-03	SCREW (WASHER HEAD) (+P 4X16)	
	*A-1630-979-A	A BOARD, COMPLETE (KV-32FS60A/32FS60D/ 32FS60E)		36	4-204-458-01	COVER, PORT	
	*A-1630-995-A	A BOARD, COMPLETE (KV-32FS60B)		37	4-039-461-01	COVER, SCREW (RIGHT) (KV-29FS60)	
					4-204-370-0	COVER, SCREW (RIGHT) (KV-32FS60)	

6-2. PICTURE TUBE



Note : Les composants identifiés par une trame et par une marque Δ sont d'une importance critique pour la sécurité. Ne les remplacer que par des pièces du numéro spécifié.

Note : The components identified by shading and marked Δ are critical for safety. Replace only with the part numbers specified in the parts list.

REF. NO.	PART.NO	DESCRIPTION	REMARK	REF. NO.	PART.NO	DESCRIPTION	REMARK
51	X-4200-423-1	BEZNET ASSY (KV-29FS60)		61	4-203-098-01	SUPPORTER, CRT (KV-32FS60A/32FS60B/32FS60D/32FS60E)	
	A-1605-585-A	BEZNET ASSY (KV-32FS60)		62	Δ 8-451-504-11	DEFLECTION YOKE Y29RSC-M (KV-29FS60)	
52	4-204-473-01	GRILLE, SPEAKER (KV-29FS60)			Δ 1-451-480-11	DEFLECTION YOKE Y32RVC2 (KV-32FS60)	
	4-204-368-01	GRILLE, SPEAKER (KV-32FS60)		63	1-452-896-11	COIL, NA ROTATION (RT200)	
53	4-042-192-11	CATCHER, PUSH (KV-29FS60)		64	Δ 8-453-011-11	NECK ASSY, NA299-M	
	4-042-192-01	CATCHER, PUSH (KV-32FS60)		65	*A-1644-094-A	VM BOARD, COMPLETE (KV-29FS60)	
54	4-204-492-01	WINDOW, ORNAMENTAL			*A-1644-095-A	VM BOARD, COMPLETE (KV-32FS60)	
55	4-204-438-01	BUTTON, POWER		66	*A-1638-123-A	C BOARD, COMPLETE (KV-29FS60)	
56	4-202-964-11	SPRING			*A-1638-122-A	C BOARD, COMPLETE (KV-32FS60)	
57	4-204-439-01	GUIDE, LIGHT		67	4-200-433-01	SPRING, EXTENSION (KV-29FS60)	
58	4-202-555-01	SHAFT, DOOR			4-369-318-51	SPRING, TENSION (KV-32FS60)	
59	4-204-435-21	DOOR					
60	4-045-250-01	DAMPER					

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

REF. NO.	PART.NO	DESCRIPTION	REMARK	REF. NO.	PART.NO	DESCRIPTION	REMARK
68	Δ 1-416-654-11	COIL, DEMAGNETIC (KV-29FS60)		75	4-036-188-01	SCREW, SELF TAPPING (KV-29FS60)	
	Δ 1-416-769-11	COIL, DEMAGNETIC (KV-32FS60)			4-203-043-01	SCREW (PT) (KV-32FS60)	
69	*4-202-988-01	CUSHION, BOX		76	4-308-870-00	CLIP, LEAD WIRE	
70	*4-060-802-01	HOLDER, DGC (KV-29FS60)		77	1-452-094-00	MAGNET, ROTATABLE DISK; 15MM	
	*4-059-569-01	HOLDER, DGC (KV-32FS60)		78	1-425-032-00	MAGNET, DISK; 10MM	
71	3-704-372-01	HOLDER, HV CABLE		79	X-4387-214-1	PERMALLOY ASSY, CORRECTION	
72	Δ 1-251-317-31	CAP ASSY, HIGH-VOLTAGE		80	3-701-007-00	BAND, BINDING	
73	3-704-495-01	SPACER, DY					
74	Δ 8-735-053-05	PICTURE TUBE (M68LNH060X) (KV-29FS60)					
	Δ 8-735-054-05	PICTURE TUBE (W76LLZ060X) (SD-302) (KV-32FS60)					

WWW.ELEKO.de

SECTION 7 ELECTRICAL PARTS LIST

Note : Les composants indentifies par une trame et par une marque Δ sont d'une importance critique pour la securite. Ne les remplacer que par des pieces du numero specifie.

Note : The components identified by shading and marked Δ are critical for safety. Replace only with the part numbers specified in the parts list.

- Items marked “ * ” are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

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

- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.
- RESISTORS
- All resistors are in ohms.
- F : nonflammable.

CAPACITORS
MF : mF, PF : mmF

COILS
MMH : mH , uH

B1

REF. NO.	PART.NO	DESCRIPTION	REMARK	REF. NO.	PART.NO	DE CRIPTIO	REMARK
	*A-1620-116-A	B1 BOARD, COMPLETE (KV-29FS60) *****		C2335	1-164-004-11	CERAM C CHIP 0.1MF (KV-32FS60A/32FS60B/32FS60D/32FS60E)	10% 25V
	*A-1620-114-A	B1 BOARD, COMPLETE (KV-32FS60) *****		C2337	1-163-125-00	CERAMIC CHIP 220PF	5% 50V
		< CAPACITOR >		C2338	1-126-934-11	ELECT 220MF	20% 16V
C2301	1-126-934-11	ELECT 220MF	20% 16V	C2339	1-164-00-11	CERAMIC CHIP 0.47MF	25V
C2302	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	C230	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C2303	1-126-964-11	ELECT 10MF	20% 50V	C 3 2	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C2304	1-163-125-00	CERAMIC CHIP 220PF	5% 50V	C234	1-126-961-11	ELECT 2.2MF	20% 50V
C2305	1-163-259-91	CERAMIC CHIP 220PF	5% 50V	C2344	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C2306	1-163-125-00	CERAMIC CHIP 220PF	5% 50V	C2 45	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C2307	1-164-004-11	CERAMIC CHIP 0.1MF	10 2 V	C2346	1-126-964-11	ELECT 10MF	20% 50V
C2308	1-163-125-00	CERAMIC CHIP 220PF	5% 50V	C2347	1-163-097-00	CERAMIC CHIP 15PF	5% 50V
C2309	1-126-934-11	ELECT 220MF	20% 1 V	C2348	1-163-097-00	CERAMIC CHIP 15PF	5% 50V
C2311	1-126-963-11	ELECT 4.7MF	20% 50V	C2349	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C2312	1-126-963-11	ELECT 4.7MF	20% 50V	C2350	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C2313	1-126-963-11	ELECT 4.7MF	20% 50V	C2351	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C2314	1-163-141-00	CERAMIC CHIP 0.001MF	5% 50V	C2354	1-126-934-11	ELECT 220MF	20% 16V
C2315	1-164-489-11	CERAMIC CHIP 0.22MF	10% 16V	C2356	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C2316	1-110-501-11	CERAMI CHIP 33MF	10% 16V	C2357	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C2317	1-162-638-11	CERAMIC CHIP 1MF	16V	C2358	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C2318	1-163-989-11	CERAMIC CHIP 0.033MF	10% 25V	C2361	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C2319	1-163-989-11	CERAMIC CHIP 0.033MF	10% 25V	C2362	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C2320	1-164-489-11	CERAMIC CHIP 0.22MF	10% 16V	C2363	1-126-934-11	ELECT 220MF	20% 16V
C2323	1-163-021-91	CERAMIC CHIP 0.01MF	10% 50V	C2364	1-163-239-11	CERAMIC CHIP 33PF	5% 50V
C2324	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	C2366	1-163-239-11	CERAMIC CHIP 33PF	5% 50V
C2325	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	C2367	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C2327	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	C2368	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C2328	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	C2371	1-163-239-11	CERAMIC CHIP 33PF	5% 50V
C2329	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	C2372	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C2330	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	C2374	1-163-239-11	CERAMIC CHIP 33PF	5% 50V
C2331	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	C2377	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C2332	1-163-105-00	CERAMIC CHIP 33PF	5% 50V	C2378	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C2333	1-164-004-11	CERAMIC CHIP 0.1MF (KV-32FS60A/32FS60B/32FS60D/32FS60E)	10% 25V	C2380	1-163-145-00	CERAMIC CHIP 0.0015MF	5% 50V
C2334	1-126-964-11	ELECT 10MF	20% 50V	C2381	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
				C2382	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
				C2383	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
				C2385	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
				C2387	1-136-250-11	FILM 0.001MF	2% 100V

B1

REF. NO.	PART.NO	DESCRIPTION	REMARK
C2388	1-136-479-11	FILM 0.001MF	1% 100V
C2389	1-163-085-00	CERAMIC CHIP 2PF	0.25PF 50V
C2390	1-163-243-11	CERAMIC CHIP 47PF	5% 50V
C2391	1-163-243-11	CERAMIC CHIP 47PF	5% 50V
C2704	1-126-934-11	ELECT 220MF	20% 16V
C2705	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
< CONNECTOR >			
CN2100	1-695-301-11	CONNECTOR, BOARD TO BOARD 40P	
< FILTER >			
FL2300	1-236-071-11	ENCAPSULATED COMPONENT	
FL2301	1-233-767-21	FILTER	
FL2302	1-236-071-11	ENCAPSULATED COMPONENT	
FL2303	1-236-071-11	ENCAPSULATED COMPONENT	
FL2305	1-236-071-11	ENCAPSULATED COMPONENT	
< IC >			
IC2300	8-759-991-41	IC LM78L05ACZ	
IC2301	8-759-295-09	IC TLC2932IPW	
IC2302	8-759-257-59	IC TDA8755T-T	
IC2303	8-759-438-64	IC SAA4952WP/V1	
IC2304	8-759-546-02	IC SAA4995WP-V1-T3 (KV-32FS60A/32FS60B/32FS60D/32FS60E)	
IC2305	8-759-295-09	IC TLC2932IPW	
IC2306	8-759-439-27	IC TMS4C2972-26DTR	
IC2307	8-759-546-04	IC SAA4991WP-V1-T3	
IC2309	8-759-439-27	IC TMS4C2972-28DTR	
IC2310	8-759-991-41	IC LM78L05ACZ	
IC2311	8-759-467-19	IC SDA9280B22	
IC2314	8-759-439-26	IC SN74LS221D	
< COIL >			
L2300	1-408-597-31	INDUCTOR 3 3UH	
L2301	1-410-435-21	INDUCTOR 220UH	
L2302	1-410-435-21	INDUCTOR 220UH	
L2303	1-408-597-31	INDUCTOR 3.3UH (KV-32FS60A/32FS60B/32FS60D/32FS60E)	
L2304	1-414-186-31	INDUCTOR 33UH	
L2305	1-408-603-31	INDUCTOR 10UH	
L2306	1-414-186-31	INDUCTOR 33UH	
L2307	1-414-384-11	INDUCTOR 5.6UH	
< TRANSISTOR >			
Q2301	1-801-806-11	TRANSISTOR DTC144EKA-T146	
Q2302	1-801-806-11	TRANSISTOR DTC144EKA-T146	
Q2303	1-801-806-11	TRANSISTOR DTC144EKA-T146	
Q2304	1-801-806-11	TRANSISTOR DTC144EKA-T146	
Q2305	8-729-216-22	TRANSISTOR 2SA1162-G	
Q2306	8-729-216-22	TRANSISTOR 2SA1162-G	
Q2307	8-729-216-22	TRANSISTOR 2SA1162-G	

REF. NO.	PART.NO	DESCRIPTION	REMARK
< RESISTOR >			
R2300	1-216-051-00	RES,CHIP 1.2K 5%	1/10W
R2301	1-216-053-00	RES,CHIP 1.5K 5%	1/10W
R2302	1-216-067-00	RES,CHIP 5.6K 5%	1/10W
R2303	1-216-059-00	RES,CHIP 2.7K 5%	1/10W
R2304	1-216-051-00	RES,CHIP 1.2K 5%	1/10W
R2305	1-216-065-91	RES,CHIP 4.7K 5%	1/10W
R2306	1-216-295-91	SHORT 0	
R2307	1-216-049-91	RES,CHIP 1K 5%	1/10W
R2310	1-216-049-91	RES,CHIP 1K 5%	1/10W
R2312	1-216-049-91	RES,CHIP 1K 5%	1/10W
R2313	1-216-047-91	RES,CHIP 20 5%	1/10W
R2314	1-216-063-91	RES,CHIP 3.9K 5%	1/10W
R2315	1-216-113-00	RES,CHI 470K 5%	1/10W
R2316	1-216-073-00	RES,CHIP 10K 5%	1/10W
R2317	1-216-025 1	RES,CHIP 100 5%	1/10W
R2320	1-216-2 5-91	SHOR 0	
R2321	1- 16-295 91	SHORT 0	
R2334	1- 33-574-11	RES, CHIP NETWORK 10 (KV-29FS60A/29FS60B/29FS60D/29FS60E/ 29FS60K/29FS60R/29FS60U)	
R23	1 233-574-11	RES, CHIP NETWORK 10 (KV-29FS60A/29FS60B/29FS60D/29FS60E/ 29FS60K/29FS60R/29FS60U)	
R23 6	1-233-574-11	RES, CHIP NETWORK 10 (KV-29FS60A/29FS60B/29FS60D/29FS60E/ 29FS60K/29FS60R/29FS60U)	
R2337	1-216-049-91	RES,CHIP 1K 5%	1/10W
R2338	1-216-295-91	SHORT 0	
R2341	1-216-295-91	SHORT 0 (KV-32FS60A/32FS60B/32FS60D/32FS60E)	
R2342	1-216-295-91	SHORT 0 (KV-29FS60A/29FS60B/29FS60D/29FS60E/ 29FS60K/29FS60R/29FS60U)	
R2345	1-216-025-91	RES,CHIP 100 5%	1/10W
R2348	1-216-089-91	RES,CHIP 47K 5%	1/10W
R2354	1-216-295-91	SHORT 0 (KV-29FS60A/29FS60B/29FS60D/29FS60E/ 29FS60K/29FS60R/29FS60U)	
R2355	1-216-295-91	SHORT 0 (KV-32FS60A/32FS60B/32FS60D/32FS60E)	
R2356	1-216-063-91	RES,CHIP 3.9K 5%	1/10W
R2358	1-216-295-91	SHORT 0	
R2359	1-216-001-00	RES,CHIP 10 5%	1/10W
R2360	1-216-085-00	RES,CHIP 33K 5%	1/10W
R2361	1-216-085-00	RES,CHIP 33K 5%	1/10W
R2364	1-216-057-00	RES,CHIP 2.2K 5%	1/10W
R2365	1-216-057-00	RES,CHIP 2.2K 5%	1/10W
R2366	1-216-057-00	RES,CHIP 2.2K 5%	1/10W
R2367	1-216-057-00	RES,CHIP 2.2K 5%	1/10W
R2368	1-216-057-00	RES,CHIP 2.2K 5%	1/10W

REF. NO.	PART.NO	DESCRIPTION	REMARK	REF. NO.	PART.NO	DESCRIPTION	REMARK
R2369	1-216-057-00	RES,CHIP	2.2K 5% 1/10W	R2723	1-216-027-00	RES,CHIP	120 5% 1/10W
R2370	1-216-057-00	RES,CHIP	2.2K 5% 1/10W	R2724	1-216-295-91	SHORT	0
R2371	1-216-057-00	RES,CHIP	2.2K 5% 1/10W	R2725	1-216-021-00	RES,CHIP	68 5% 1/10W
R2372	1-216-057-00	RES,CHIP	2.2K 5% 1/10W	R2726	1-216-295-91	SHORT	0
R2373	1-216-065-91	RES,CHIP	4.7K 5% 1/10W	R2727	1-216-295-91	SHORT	0
R2374	1-216-049-91	RES,CHIP	1K 5% 1/10W	R2734	1-216-295-91	SHORT	0
R2375	1-216-049-91	RES,CHIP	1K 5% 1/10W	R2735	1-216-021-00	RES,CHIP	68 5% 1/10W
R2376	1-216-049-91	RES,CHIP	1K 5% 1/10W	R2736	1-216-295-91	SHORT	0
R2377	1-216-049-91	RES,CHIP	1K 5% 1/10W	R2738	1-216-025-91	RES,CHIP	100 5% 1/10W
R2378	1-216-029-00	RES,CHIP	150 5% 1/10W				
R2379	1-216-076-00	RES,CHIP	13K 5% 1/10W			< CRYSTAL >	
R2380	1-216-073-00	RES,CHIP	10K 5% 1/10W	X2300	1-579-175-11	VIBRATOR, CERAMIC	
R2381	1-216-021-00	RES,CHIP	68 5% 1/10W			***** **	
R2382	1-216-049-91	RES,CHIP	1K 5% 1/10W			*A-1620-117-A B BOARD, COMPLETE (KV-29FS60)	
R2383	1-216-049-91	RES,CHIP	1K 5% 1/10W			*****	
R2384	1-216-021-00	RES,CHIP	68 5% 1/10W			A-1620-115 A BP BOARD, COMPLETE (KV-32FS60)	
R2385	1-216-037-00	RES,CHIP	330 5% 1/10W			*****	
R2386	1-216-295-91	SHORT	0			< CAPACITOR >	
R2387	1-216-027-00	RES,CHIP	120 5% 1/10W	C300	1-164-222-11	CERAMIC CHIP 0.22MF	25V
R2388	1-216-037-00	RES,CHIP	330 5% 1/10W	C301	1-164-222-11	CERAMIC CHIP 0.22MF	25V
R2389	1-216-069-00	RES,CHIP	6.8K 5% 1/10W	C302	1-164-222-11	CERAMIC CHIP 0.22MF	25V
R2390	1-216-049-91	RES,CHIP	1K 5% 1/10W	C303	1-164-222-11	CERAMIC CHIP 0.22MF	25V
R2391	1-216-025-91	RES,CHIP	100 5% 1/10W	C304	1-164-222-11	CERAMIC CHIP 0.22MF	25V
R2392	1-216-295-91	SHORT	0	C305	1-126-967-11	ELECT 47MF	20% 50V
R2393	1-216-295-91	SHORT	0	C306	1-126-967-11	ELECT 47MF	20% 50V
R2394	1-216-295-91	SHORT	0	C307	1-126-967-11	ELECT 47MF	20% 50V
R2395	1-216-295-91	SHORT	0	C308	1-126-964-11	ELECT 10MF	20% 50V
R2396	1-216-295-91	SHORT	0	C309	1-163-038-91	CERAMIC CHIP 0.1MF	25V
R2397	1-216-295-91	SHORT	0	C310	1-163-038-91	CERAMIC CHIP 0.1MF	25V
R2398	1-216-295-91	SHORT	0	C311	1-163-259-91	CERAMIC CHIP 220PF	5% 50V
R2410	1-216-037-00	RES,CHIP	330 5% 1/10W	C312	1-163-259-91	CERAMIC CHIP 220PF	5% 50V
R2411	1-216-037-00	RES,CHIP	33 5% 1/10W	C313	1-163-259-91	CERAMIC CHIP 220PF	5% 50V
R2412	1-216-667-11	METAL CHIP	4.7K 0.50% 1/10W	C314	1-163-259-91	CERAMIC CHIP 220PF	5% 50V
R2413	1-216-664-11	METAL CHIP	3.6K 0.50% 1/10W	C315	1-126-964-11	ELECT 10MF	20% 50V
R2415	1-216-295-91	SHORT	0	C316	1-163-038-91	CERAMIC CHIP 0.1MF	25V
			(KV-32FS60A/32FS60B/32FS60D/32FS60E)	C317	1-163-038-91	CERAMIC CHIP 0.1MF	25V
R2416	1-216-295-91	SHORT	0	C318	1-163-259-91	CERAMIC CHIP 220PF	5% 50V
			(KV-29FS60A/29FS60B/29FS60D/29FS60E/	C319	1-163-259-91	CERAMIC CHIP 220PF	5% 50V
			29FS60K/29FS60R/29FS60U)	C320	1-126-967-11	ELECT 47MF	20% 50V
R2711	1-216-001-00	RES,CHIP	10 5% 1/10W	C321	1-126-967-11	ELECT 47MF	20% 50V
R2712	1-216-295-91	SHORT	0	C322	1-126-967-11	ELECT 47MF	20% 50V
R2713	1-216-295-91	SHORT	0	C323	1-163-038-91	CERAMIC CHIP 0.1MF	25V
R2714	1-216-295-91	SHORT	0	C324	1-163-259-91	CERAMIC CHIP 220PF	5% 50V
R2715	1-216-295-91	SHORT	0	C325	1-163-259-91	CERAMIC CHIP 220PF	5% 50V
R2716	1-216-295-91	SHORT	0	C326	1-163-038-91	CERAMIC CHIP 0.1MF	25V
R2717	1-216-295-91	SHORT	0	C327	1-163-038-91	CERAMIC CHIP 0.1MF	25V
R2718	1-216-295-91	SHORT	0	C328	1-126-964-11	ELECT 10MF	20% 50V
R2719	1-216-295-91	SHORT	0	C329	1-126-964-11	ELECT 10MF	20% 50V
R2720	1-216-295-91	SHORT	0	C330	1-126-964-11	ELECT 10MF	20% 50V
R2721	1-216-295-91	SHORT	0				
R2722	1-216-295-91	SHORT	0				



REF. NO.	PART.NO	DESCRIPTION	REMARK	REF. NO.	PART.NO	DESCRIPTION	REMARK
C331	1-163-038-91	CERAMIC CHIP 0.1MF	25V	C384	1-126-964-11	ELECT 10MF	20% 50V
C332	1-126-964-11	ELECT 10MF	20% 50V	C385	1-163-231-11	CERAMIC CHIP 15PF	5% 50V
C333	1-163-038-91	CERAMIC CHIP 0.1MF	25V	C386	1-126-964-11	ELECT 10MF	20% 50V
C334	1-126-964-11	ELECT 10MF	20% 50V	C387	1-163-038-91	CERAMIC CHIP 0.1MF	25V
C335	1-126-964-11	ELECT 10MF	20% 50V	C388	1-163-038-91	CERAMIC CHIP 0.1MF	25V
C336	1-126-964-11	ELECT 10MF	20% 50V	C389	1-126-964-11	ELECT 10MF	20% 50V
C337	1-126-964-11	ELECT 10MF	20% 50V	C391	1-163-038-91	CERAMIC CHIP 0.1MF	25V
C338	1-126-964-11	ELECT 10MF	20% 50V	C392	1-126-964-11	ELECT 10MF	20% 50V
C339	1-126-964-11	ELECT 10MF	20% 50V	C393	1-163-038-91	CERAMIC CHIP 0.1MF	25V
C340	1-126-964-11	ELECT 10MF	20% 50V	C394	1-126-964-11	ELECT 10MF	20% 50V
C341	1-163-239-11	CERAMIC CHIP 33PF	5% 50V	C395	1-126-933-11	ELECT 100MF	20% 16V
C342	1-163-038-91	CERAMIC CHIP 0.1MF	25V	C396	1-126-933-11	ELECT 10 MF	20% 16V
C343	1-163-038-91	CERAMIC CHIP 0.1MF	25V	C397	1-126-933-11	ELECT 100MF	20% 16V
C344	1-126-964-11	ELECT 10MF	20% 50V	C398	1-163-239-11	CERAMIC CH 33PF	5% 50V
C345	1-126-964-11	ELECT 10MF	20% 50V	C399	1-163-038-91	CERAMIC CHIP 0. MF	25V
C346	1-126-964-11	ELECT 10MF	20% 50V	C400	1-163-038 1	ERAMIC CHIP 0.1MF	25V
C347	1-163-038-91	CERAMIC CHIP 0.1MF	25V	C401	1-163-0 8-91	CERAMIC CHIP 0.1MF	25V
C348	1-163-038-91	CERAMIC CHIP 0.1MF	25V	C402	1-126-9 4-11	ELECT 10MF	20% 50V
C349	1-163-038-91	CERAMIC CHIP 0.1MF	25V	C403	1- 63-038 91	CER MIC CHIP 0.1MF	25V
C350	1-163-038-91	CERAMIC CHIP 0.1MF	25V	C404	1- 07-823-11	CERAMIC CHIP 0.47MF	10% 16V
C351	1-163-038-91	CERAMIC CHIP 0.1MF	25V	C405	1-104-760-11	CERAMIC CHIP 0.047MF	10% 50V
C352	1-163-038-91	CERAMIC CHIP 0.1MF	25V	406	1-163-235-11	CERAMIC CHIP 22PF	5% 50V
C353	1-163-038-91	CERAMIC CHIP 0.1MF	25V	C40	1 163-235-11	CERAMIC CHIP 22PF	5% 50V
C354	1-163-038-91	CERAMIC CHIP 0.1MF	25V	C408	1-163-021-91	CERAMIC CHIP 0.01MF	10% 50V
C355	1-107-823-11	CERAMIC CHIP 0.47MF	10% 16V	C409	1-163-021-91	CERAMIC CHIP 0.01MF	10% 50V
C357	1-104-760-11	CERAMIC CHIP 0.047MF	10% 50	C410	1-163-038-91	CERAMIC CHIP 0.1MF	25V
C358	1-107-823-11	CERAMIC CHIP 0.47MF	10% 16V			< CONNECTOR >	
C359	1-104-760-11	CERAMIC CHIP 0.047MF	10% 50V	CN300	1-695-300-11	CONNECTOR, BOARD TO BOARD 20P	
C361	1-163-038-91	CERAMIC CHIP 0.1MF	25V	CN301	1-695-301-11	CONNECTOR, BOARD TO BOARD 40P	
C362	1-163-038-91	CERAMIC CHIP 0.1MF	25V			< FILTER >	
C363	1-163-038-91	CERAMIC CHIP 0.1MF	25V	FL300	1-233-505-21	FILTER, LOW PASS	
C364	1-163-038-91	CERAMIC CHIP 0.1MF	25V	FL301	1-233-505-21	FILTER, LOW PASS	
C365	1-126-964-11	ELECT 1 MF	0% 50V	FL302	1-236-071-11	ENCAPSULATED COMPONENT	
C366	1-126-964-11	ELECT 10MF	20% 50V	FL303	1-236-071-11	ENCAPSULATED COMPONENT	
C367	1-163-038-91	CERAMIC CHIP 0.1MF	25V	FL304	1-236-071-11	ENCAPSULATED COMPONENT	
C368	1-163-038-91	CERAMIC CHIP .1MF	25V	FL305	1-233-446-11	FILTER, LOW PASS	
C369	1-163-038-91	CERAMIC CHIP 0.1MF	25V	FL306	1-233-446-11	FILTER, LOW PASS	
C370	1-163-038-91	CERAMIC CHIP 0.1MF	25V	FL307	1-233-446-11	FILTER, LOW PASS	
C371	1-163-038-91	CERAMIC CHIP 0.1MF	25V			< IC >	
C372	1-163-038-91	CERAMIC CHIP 0.1MF	25V	IC300	8-752-067-36	IC CXA1815S	
C373	1-163-038-91	CERAMIC CHIP 0.1MF	25V	IC301	8-759-485-79	IC TC7SET08FU(TE85L)	
C374	1-163-038-91	CERAMIC CHIP 0.1MF	25V	IC302	8-759-295-09	IC TLC2932IPW	
C375	1-163-038-91	CERAMIC CHIP 0.1MF	25V	IC303	8-752-392-55	IC CXD2079Q	
C376	1-163-038-91	CERAMIC CHIP 0.1MF	25V	IC304	8-759-295-09	IC TLC2932IPW	
C377	1-163-038-91	CERAMIC CHIP 0.1MF	25V	IC305	8-759-485-79	IC TC7SET08FU(TE85L)	
C378	1-163-038-91	CERAMIC CHIP 0.1MF	25V	IC306	8-759-467-22	IC MSM548331TS-K	
C379	1-163-038-91	CERAMIC CHIP 0.1MF	25V	IC307	8-759-467-22	IC MSM548331TS-K	
C380	1-163-239-11	CERAMIC CHIP 33PF	5% 50V	IC308	8-759-485-79	IC TC7SET08FU(TE85L)	
C381	1-163-038-91	CERAMIC CHIP 0.1MF	25V				
C382	1-163-038-91	CERAMIC CHIP 0.1MF	25V				
C383	1-163-099-00	CERAMIC CHIP 18PF	5% 50V				

REF. NO.	PART.NO	DESCRIPTION	REMARK	REF. NO.	PART.NO	DESCRIPTION	REMARK
IC309	8-759-295-09	IC TLC2932IPW		Q322	8-729-620-06	TRANSISTOR 2SC3052-EF	
IC311	8-759-062-66	IC TC7S66F		Q324	8-729-620-06	TRANSISTOR 2SC3052-EF	
IC312	8-759-062-66	IC TC7S66F		Q325	8-729-620-06	TRANSISTOR 2SC3052-EF	
	< COIL >			Q326	8-729-216-22	TRANSISTOR 2SA1162-G	
L300	1-412-029-11	INDUCTOR CHIP 10UH		Q327	8-729-216-22	TRANSISTOR 2SA1162-G	
L301	1-410-435-21	INDUCTOR 220UH		Q328	8-729-216-22	TRANSISTOR 2SA1162-G	
L302	1-410-435-21	INDUCTOR 220UH		Q329	1-801-806-11	TRANSISTOR DTC144EKA-T146	
L303	1-412-029-11	INDUCTOR CHIP 10UH			< RESISTOR >		
L304	1-410-435-21	INDUCTOR 220UH		R300	1-216-049-91	RES,CHIP 1K 5% 1/10W	
L305	1-410-435-21	INDUCTOR 220UH		R301	1-216-049-91	RES,CHIP 1K 5% 1/10W	
L306	1-412-029-11	INDUCTOR CHIP 10UH		R302	1-216-642-11	METAL CHIP 430 0.50% 1/10W	
L307	1-412-029-11	INDUCTOR CHIP 10UH		R303	1-216-045-00	RES,CHIP 80 5% 1/10W	
L308	1-412-029-11	INDUCTOR CHIP 10UH		R304	1-216-045-00	RES,CHIP 680 5% 1/10W	
L309	1-412-029-11	INDUCTOR CHIP 10UH		R305	1-216-656-11	METAL CHIP 1.6K 0.50% 1/10W	
L311	1-412-029-11	INDUCTOR CHIP 10UH		R306	1 216 37-00	RES,CHIP 330 5% 1/10W	
L312	1-412-029-11	INDUCTOR CHIP 10UH		R307	1-216-037 00	RES,CHIP 330 5% 1/10W	
L313	1-412-029-11	INDUCTOR CHIP 10UH		R308	1-216-643- 1	METAL CHIP 470 0.50% 1/10W	
L314	1-412-029-11	INDUCTOR CHIP 10UH		R309	1 216-045 00	RES,CHIP 680 5% 1/10W	
L315	1-412-029-11	INDUCTOR CHIP 10UH		R310	1 216-045-00	RES,CHIP 680 5% 1/10W	
L316	1-412-029-11	INDUCTOR CHIP 10UH		R311	1-216-057-00	RES,CHIP 2.2K 5% 1/10W	
L317	1-412-029-11	INDUCTOR CHIP 10UH		R312	1-216-654-11	METAL CHIP 1.3K 0.50% 1/10W	
L318	1-412-029-11	INDUCTOR CHIP 10UH		R313	1-216-037-00	RES,CHIP 330 5% 1/10W	
L319	1-412-029-11	INDUCTOR CHIP 10UH		R314	1-216-037-00	RES,CHIP 330 5% 1/10W	
L320	1-412-029-11	INDUCTOR CHIP 10UH		R315	1-216-057-00	RES,CHIP 2.2K 5% 1/10W	
L321	1-412-004-31	INDUCTOR CHIP 6.8UH		R316	1-216-663-11	METAL CHIP 3.3K 0.50% 1/10W	
L322	1-412-004-31	INDUCTOR CHIP 6.8UH		R317	1-216-049-91	RES,CHIP 1K 5% 1/10W	
L323	1-412-004-31	INDUCTOR CHIP 6.8UH		R318	1-216-049-91	RES,CHIP 1K 5% 1/10W	
	< TRANSISTOR >			R319	1-216-025-91	RES,CHIP 100 5% 1/10W	
Q300	8-729-620-06	TRANSISTOR 2SC3 52-EF		R320	1-216-025-91	RES,CHIP 100 5% 1/10W	
Q301	8-729-620-06	TRANSISTOR SC3052-EF		R321	1-216-041-00	RES,CHIP 470 5% 1/10W	
Q302	8-729-620-06	TRANSISTOR 2 C3052 EF		R322	1-216-041-00	RES,CHIP 470 5% 1/10W	
Q303	8-729-620-06	TRANSI TOR 2SC3052-EF		R323	1-216-041-00	RES,CHIP 470 5% 1/10W	
Q304	8-729-620-06	TR NSISTOR 2SC3052-EF		R324	1-216-017-91	RES,CHIP 47 5% 1/10W	
Q305	8-729-620-06	TRAN STOR 2SC3052-EF		R325	1-216-025-91	RES,CHIP 100 5% 1/10W	
Q306	8-729-216-22	TRANSISTOR 2SA1162-G		R326	1-216-663-11	METAL CHIP 3.3K 0.50% 1/10W	
Q307	8-729-216-22	TRANSISTOR 2SA1162-G		R327	1-216-049-91	RES,CHIP 1K 5% 1/10W	
Q308	8-729-216-22	TRANSISTOR 2SA1162-G		R328	1-216-049-91	RES,CHIP 1K 5% 1/10W	
Q309	8-729-216-22	TRANSISTOR 2SA1162-G		R329	1-216-025-91	RES,CHIP 100 5% 1/10W	
Q310	1-801-806-11	TRANSISTOR DTC144EKA-T146		R330	1-216-057-00	RES,CHIP 2.2K 5% 1/10W	
Q311	8-729-216-22	TRANSISTOR 2SA1162-G		R331	1-216-025-91	RES,CHIP 100 5% 1/10W	
Q312	8-729-216-22	TRANSISTOR 2SA1162-G		R332	1-216-057-00	RES,CHIP 2.2K 5% 1/10W	
Q313	8-729-216-22	TRANSISTOR 2SA1162-G		R333	1-216-057-00	RES,CHIP 2.2K 5% 1/10W	
Q314	8-729-216-22	TRANSISTOR 2SA1162-G		R336	1-216-065-91	RES,CHIP 4.7K 5% 1/10W	
Q315	8-729-620-06	TRANSISTOR 2SC3052-EF		R337	1-216-049-91	RES,CHIP 1K 5% 1/10W	
Q316	8-729-216-22	TRANSISTOR 2SA1162-G		R338	1-216-057-00	RES,CHIP 2.2K 5% 1/10W	
Q317	8-729-620-06	TRANSISTOR 2SC3052-EF		R339	1-216-623-11	METAL CHIP 68 0.50% 1/10W	
Q318	8-729-216-22	TRANSISTOR 2SA1162-G		R340	1-216-623-11	METAL CHIP 68 0.50% 1/10W	
Q319	8-729-216-22	TRANSISTOR 2SA1162-G		R341	1-216-049-91	RES,CHIP 1K 5% 1/10W	
Q320	8-729-620-06	TRANSISTOR 2SC3052-EF		R342	1-216-623-11	METAL CHIP 68 0.50% 1/10W	
				R343	1-216-623-11	METAL CHIP 68 0.50% 1/10W	



REF. NO.	PART.NO	DESCRIPTION	REMARK	REF. NO.	PART.NO	DESCRIPTION	REMARK
R344	1-216-057-00	RES,CHIP	2.2K 5% 1/10W	R406	1-216-017-91	RES,CHIP	47 5% 1/10W
R345	1-216-623-11	METAL CHIP	68 0.50% 1/10W	R407	1-216-025-91	RES,CHIP	100 5% 1/10W
R346	1-216-623-11	METAL CHIP	68 0.50% 1/10W	R408	1-216-017-91	RES,CHIP	47 5% 1/10W
R347	1-216-623-11	METAL CHIP	68 0.50% 1/10W	R409	1-216-057-00	RES,CHIP	2.2K 5% 1/10W
R351	1-216-049-91	RES,CHIP	1K 5% 1/10W	R410	1-216-057-00	RES,CHIP	2.2K 5% 1/10W
R352	1-216-025-91	RES,CHIP	100 5% 1/10W	R411	1-216-057-00	RES,CHIP	2.2K 5% 1/10W
R353	1-216-049-91	RES,CHIP	1K 5% 1/10W	R412	1-216-057-00	RES,CHIP	2.2K 5% 1/10W
R357	1-216-623-11	METAL CHIP	68 0.50% 1/10W	R413	1-216-041-00	RES,CHIP	470 5% 1/10W
R358	1-216-623-11	METAL CHIP	68 0.50% 1/10W	R414	1-216-061-00	RES,CHIP	3.3K 5% 1/10W
R359	1-216-623-11	METAL CHIP	68 0.50% 1/10W	R415	1-216-051-00	RES,CHIP	1.2K 5% 1/10W
R360	1-216-623-11	METAL CHIP	68 0.50% 1/10W	R417	1-216-117-00	RES,CHIP	680K 5% 1/10W
R361	1-216-057-00	RES,CHIP	2.2K 5% 1/10W	R418	1-216-033-00	RES,CHIP	2 0 % 1/10W
R362	1-216-057-00	RES,CHIP	2.2K 5% 1/10W	R419	1-216-037-00	RES,CHIP	30 5% 1/10W
R363	1-216-623-11	METAL CHIP	68 0.50% 1/10W	R420	1-216-033-00	RES,CHIP	220 5% 1/10W
R364	1-216-623-11	METAL CHIP	68 0.50% 1/10W	R421	1-216-037-00	RES,CHI	3 0 5% 1/10W
R365	1-216-623-11	METAL CHIP	68 0.50% 1/10W	R422	1-216-017 1	ES,CHIP	47 5% 1/10W
R368	1-216-025-91	RES,CHIP	100 5% 1/10W	R423	1-216-0 7-91	RES,CHIP	47 5% 1/10W
R369	1-216-025-91	RES,CHIP	100 5% 1/10W	R424	1-216-0 7-91	RES, HIP	47 5% 1/10W
R371	1-216-061-00	RES,CHIP	3.3K 5% 1/10W	R425	1- 16-017 91	RES,CHIP	47 5% 1/10W
R372	1-216-049-91	RES,CHIP	1K 5% 1/10W	R426	1- 16-017-91	RES,CHIP	47 5% 1/10W
R373	1-216-051-00	RES,CHIP	1.2K 5% 1/10W	R427	1-216-017-91	RES,CHIP	47 5% 1/10W
R374	1-216-033-00	RES,CHIP	220 5% 1/10W	429	1-216-295-91	SHORT	0
R375	1-216-037-00	RES,CHIP	330 5% 1/10W	R43	1 216-029-00	RES,CHIP	150 5% 1/10W
R376	1-216-117-00	RES,CHIP	680K 5% 1/10W	R432	1-216-029-00	RES,CHIP	150 5% 1/10W
R377	1-216-041-00	RES,CHIP	470 5% 1/10W	R433	1-216-029-00	RES,CHIP	150 5% 1/10W
R378	1-216-041-00	RES,CHIP	470 5% 1/10W	R434	1-216-057-00	RES,CHIP	2.2K 5% 1/10W
R379	1-216-051-00	RES,CHIP	1.2K 5% 1/10W	R436	1-216-049-91	RES,CHIP	1K 5% 1/10W
R380	1-216-033-00	RES,CHIP	220 5% 1/10W	R438	1-216-041-00	RES,CHIP	470 5% 1/10W
R381	1-216-117-00	RES,CHIP	680K 5% 1/10W	R439	1-216-653-11	METAL CHIP	1.2K 0.50% 1/10W
R382	1-216-037-00	RES,CHIP	330 5% 1/ 0W	R440	1-216-049-91	RES,CHIP	1K 5% 1/10W
R383	1-216-061-00	RES,CHIP	3.3K 5% 1/10W	R441	1-216-057-00	RES,CHIP	2.2K 5% 1/10W
R385	1-216-667-11	METAL CHIP	4.7K 0 50% 1/10W	R442	1-216-041-00	RES,CHIP	470 5% 1/10W
R386	1-216-025-91	RES,CHIP	100 5% 1/10W	R444	1-216-049-91	RES,CHIP	1K 5% 1/10W
R387	1-216-643-11	METAL CHIP	470 0 50% 1/10W	R445	1-216-041-00	RES,CHIP	470 5% 1/10W
R388	1-216-025-91	RES,CHIP	100 5% 1/10W	R447	1-216-049-91	RES,CHIP	1K 5% 1/10W
R389	1-216-025-91	RES,CHIP	100 5% 1/10W	R448	1-216-065-91	RES,CHIP	4.7K 5% 1/10W
R390	1-216-663-11	METAL CHIP	3.3K 0.50% 1/10W	R449	1-216-065-91	RES,CHIP	4.7K 5% 1/10W
R391	1-216-651-11	METAL CHIP	1K 0.50% 1/10W	R450	1-216-049-91	RES,CHIP	1K 5% 1/10W
R393	1-216-037-00	RES,CHIP	330 5% 1/10W	R451	1-216-065-91	RES,CHIP	4.7K 5% 1/10W
R394	1-216-033-00	RES,CHIP	220 5% 1/10W	R452	1-216-065-91	RES,CHIP	4.7K 5% 1/10W
R395	1-216-057-00	RES,CHIP	2.2K 5% 1/10W	R453	1-216-049-91	RES,CHIP	1K 5% 1/10W
R396	1-216-636-11	METAL CHIP	240 0.50% 1/10W	R454	1-216-053-00	RES,CHIP	1.5K 5% 1/10W
R397	1-216-636-11	METAL CHIP	240 0.50% 1/10W	R455	1-216-057-00	RES,CHIP	2.2K 5% 1/10W
R398	1-216-049-91	RES,CHIP	1K 5% 1/10W	R456	1-216-053-00	RES,CHIP	1.5K 5% 1/10W
R399	1-216-025-91	RES,CHIP	100 5% 1/10W	R457	1-216-057-00	RES,CHIP	2.2K 5% 1/10W
R400	1-216-638-11	METAL CHIP	300 0.50% 1/10W	R458	1-216-053-00	RES,CHIP	1.5K 5% 1/10W
R401	1-216-025-91	RES,CHIP	100 5% 1/10W	R459	1-216-057-00	RES,CHIP	2.2K 5% 1/10W
R402	1-216-025-91	RES,CHIP	100 5% 1/10W	R460	1-216-041-00	RES,CHIP	470 5% 1/10W
R403	1-216-025-91	RES,CHIP	100 5% 1/10W	R461	1-216-037-00	RES,CHIP	330 5% 1/10W
R404	1-216-017-91	RES,CHIP	47 5% 1/10W	R462	1-216-037-00	RES,CHIP	330 5% 1/10W
R405	1-216-017-91	RES,CHIP	47 5% 1/10W	R463	1-216-041-00	RES,CHIP	470 5% 1/10W

A

REF.NO.	PART.NO	DESCRIPTION	REMARK	REF.NO.	PART.NO	DESCRIPTION	REMARK
C1132	1-163-021-91	CERAMIC CHIP 0.01MF	10% 50V	C1614	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C1133	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	C1615	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C1134	1-126-961-11	ELECT 2.2MF	20% 50V	C1617	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C1135	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V			< CONNECTOR >	
C1136	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V				
C1137	1-126-953-11	ELECT 2200MF	20% 35V	CN1111	*1-564-520-11	PLUG, CONNECTOR 5P	
C1138	1-126-953-11	ELECT 2200MF	20% 35V	CN1200	1-695-298-11	CONNECTOR, BOARD TO BOARD 40P	
C1139	1-104-329-11	CERAMIC CHIP 0.1MF	10% 50V	CN1300	1-695-297-11	CONNECTOR, BOARD TO BOARD 20P	
C1140	1-111-216-91	ELECT 150MF	20% 63V	CN1301	1-695-298-11	CONNECTOR, BOARD TO BOARD 40P	
C1151	1-162-568-11	CERAMIC CHIP 0.33MF	10% 16V	CN1401	1-695-298-11	CONNECTOR, BOARD TO BOARD 40P	
C1152	1-136-177-00	FILM 1MF	5% 50V	CN1402	1-573-296-11	CONNECTOR, BOARD TO BOARD 10P	
C1153	1-163-135-00	CERAMIC CHIP 560PF	5% 50V			(KV-29FS60B/32FS60B)	
C1154	1-130-777-00	FILM 0.1MF	5% 63V	CN1600	1-900-903-64	CONNECTOR ASSY 20P	
C1155	1-163-017-00	CERAMIC CHIP 0.0047MF	10% 50V	CN1601	1-900-903-64	CONNECTOR SY, 2 P	
C1156	1-163-251-11	CERAMIC CHIP 100PF	5% 50V	CN1602	1-900-903-64	CONNECTOR ASSY, 20P	
C1157	1-163-021-91	CERAMIC CHIP 0.01MF	10% 50V	CN1700	*1-568-879 11	IN, CONNECTOR 4P	
C1158	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	CN1701	1-573-2 6-11	CONNECTOR, BOARD TO BOARD 10P	
C1159	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	CN1702	*1-568-8 0-51	PIN, CONNECTOR 5P	
C1160	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	CN1703	*1- 64-514 11	PLU , CONNECTOR 11P	
C1161	1-104-329-11	CERAMIC CHIP 0.1MF	10% 50V	CN1801	1- 95-299-11	CONNECTOR, BOARD TO BOARD 50P	
C1162	1-111-216-91	ELECT 150MF	20% 63V	CN1901	1- 95-298-11	CONNECTOR, BOARD TO BOARD 40P	
C1176	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V			< COMPOSITION CIRCUIT BLOCK >	
C1177	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	CP1300	1-251-658-11	SPLITTER RF	
C1178	1-126-964-11	ELECT 10MF	20% 50V			< DIODE >	
C1179	1-126-964-11	ELECT 10MF	20% 50V	D1100	8-719-914-43	DIODE DAN202K	
C1180	1-126-952-11	ELECT 1000MF	20% 35	D1101	8-719-914-44	DIODE DAP202K	
C1181	1-126-952-11	ELECT 1000MF	20% 35V	D1102	8-719-914-43	DIODE DAN202K	
C1182	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	D1103	8-719-914-43	DIODE DAN202K	
C1183	1-164-004-11	CERAMIC CHIP 0.1MF	10% 5V	D1401	8-719-105-99	DIODE RD6.2M-B1	
C1184	1-107-823-11	CERAMIC CHIP 0.47MF	10 1 V	D1402	8-719-105-99	DIODE RD6.2M-B1	
C1185	1-107-823-11	CERAMIC CHIP 0.47MF	10% 16V	D1403	8-719-105-99	DIODE RD6.2M-B1	
C1226	1-104-661-91	ELECT 330MF	20% 16V	D1404	8-719-105-99	DIODE RD6.2M-B1	
C1300	1-126-933-11	ELECT 1 0MF	0% 16V	D1626	8-719-914-43	DIODE DAN202K	
C1301	1-163-059-91	CERAMIC CHIP 0.01MF	10% 50V	D1627	8-719-914-43	DIODE DAN202K	
C1326	1-163-059-91	CERAMIC CH P 0.01MF	10% 50V	D1629	8-719-914-43	DIODE DAN202K	
C1327	1-126-934-11	ELECT 20MF	20% 10V			< FERRITE BEAD >	
C1328	1-163-117-00	CERAMIC CHIP 100PF	5% 50V	FB1126	1-535-143-61	LEAD, JUMPER (5.0MM)	
C1350	1-163-059-91	CERAMIC CHIP 0.01MF	10% 50V	FB1151	1-535-143-61	LEAD, JUMPER (5.0MM)	
C1351	1-126-934-11	ELECT 220MF	20% 10V			< IC >	
C1601	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	IC1126	8-759-544-25	IC TDA7482	
C1602	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	IC1151	8-759-544-25	IC TDA7482	
C1603	1-126-933-11	ELECT 100MF	20% 16V	IC1176	8-759-333-24	IC LM1876TF	
C1604	1-126-933-11	ELECT 100MF	20% 16V	IC1400	8-752-072-94	IC CXA1875AM-T4	
C1605	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	IC1401	8-759-439-64	IC HEF4053BT	
C1607	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	IC1601	8-759-457-44	IC KA78R05TU	
C1608	1-126-934-11	ELECT 220MF	20% 16V	IC1602	8-759-544-09	IC KA278R05TU	
C1609	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V				
C1610	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V				
C1611	1-126-933-11	ELECT 100MF	20% 16V				
C1612	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V				
C1613	1-126-933-11	ELECT 100MF	20% 16V				

REF. NO.	PART.NO	DESCRIPTION	REMARK	REF. NO.	PART.NO	DESCRIPTION	REMARK
IC1603	8-759-295-82	IC L78L08ACZ-AP		R1176	1-216-063-91	RES,CHIP 3.9K 5%	1/10W
IC1604	8-759-544-13	IC KA78R09TU		R1177	1-216-063-91	RES,CHIP 3.9K 5%	1/10W
IC1605	8-759-544-11	IC KA78R33TU		R1178	1-216-357-00	METAL OXIDE 4.7 5%	1W F
		< COIL >		R1179	1-216-357-00	METAL OXIDE 4.7 5%	1W F
L1126	1-416-966-11	CHOKE, COIL 30uH		R1180	1-216-081-00	RES,CHIP 22K 5%	1/10W
L1127	1-414-158-11	INDUCTOR 2.2UH		R1181	1-216-045-00	RES,CHIP 680 5%	1/10W
L1128	1-535-143-61	LEAD, JUMPER (5.0MM)		R1182	1-216-081-00	RES,CHIP 22K 5%	1/10W
L1151	1-416-966-11	CHOKE, COIL 30uH		R1183	1-216-045-00	RES,CHIP 680 5%	1/10W
L1152	1-414-158-11	INDUCTOR 2.2UH		R1184	1-216-089-91	RES,CHIP 47K 5%	1/10W
		< TRANSISTOR >		R1185	1-216-089-91	RES,CHIP 47K 5%	1/10W
Q1100	8-729-216-22	TRANSISTOR 2SA1162-G		R1201	1-216-089-91	RES,CHIP 47K 5%	1/10W
Q1201	8-729-620-06	TRANSISTOR 2SC3052-EF		R1202	1-216-083-00	RES,CHI 27K 5%	1/10W
Q1202	8-729-620-06	TRANSISTOR 2SC3052-EF		R1203	1-216-083-00	RES,CHIP 7K 5%	1/10W
Q1203	8-729-620-06	TRANSISTOR 2SC3052-EF		R1204	1-216-071-00	RES,CHIP 8.2K 5%	1/10W
Q1204	8-729-620-06	TRANSISTOR 2SC3052-EF		R1205	1-216-089-91	RES,CHIP 47K 5%	1/10W
				R1206	1 216 73-00	RES,CHIP 10K 5%	1/10W
Q1226	8-729-620-06	TRANSISTOR 2SC3052-EF		R1207	1-216-065 91	RES,CHIP 4.7K 5%	1/10W
Q1227	8-729-620-06	TRANSISTOR 2SC3052-EF		R1208	1-216-089- 1	RES,CHIP 47K 5%	1/10W
Q1229	8-729-027-38	TRANSISTOR DTA144EKA-T146		R1209	1 216-065 91	RES,CHIP 4.7K 5%	1/10W
Q1300	1-801-806-11	TRANSISTOR DTC144EKA-T146		R1210	1-216-089-91	METAL CHIP 47K 5%	1/10W
Q1326	8-729-620-06	TRANSISTOR 2SC3052-EF				(KV-29FS60A/29FS60D/29FS60E/29FS60K/ 29FS60R/32FS60A/32FS60D/32FS60E)	
					1-216-691-11	METAL CHIP 47K 0.50%	1/10W
						(KV-29FS60B/29FS60U/32FS60B)	
Q1327	8-729-216-22	TRANSISTOR 2SA1162-G		R1226	1-216-073-00	RES,CHIP 10K 5%	1/10W
Q1328	8-729-620-06	TRANSISTOR 2SC3052-EF		R1227	1-216-073-00	RES,CHIP 10K 5%	1/10W
Q1329	8-729-216-22	TRANSISTOR 2SA1162-G		R1228	1-216-073-00	RES,CHIP 10K 5%	1/10W
Q1350	8-729-620-06	TRANSISTOR 2SC3052-E		R1229	1-216-073-00	RES,CHIP 10K 5%	1/10W
Q1351	8-729-216-22	TRANSISTOR 2SA1162-G		R1230	1-216-055-00	RES,CHIP 1.8K 5%	1/10W
Q1400	8-729-046-47	TRANSISTOR KSC25 0-BTA					
Q1601	8-729-620-06	TRANSISTOR 2 C305 EF		R1232	1-216-295-91	SHORT 0	
Q1626	8-729-620-06	TRANSI TOR 2S 3052-EF		R1233	1-216-049-91	RES,CHIP 1K 5%	1/10W
		< RESISTO >		R1300	1-216-073-00	RES,CHIP 10K 5%	1/10W
R1001	1-216-295-91	SHORT 0		R1301	1-216-073-00	RES,CHIP 10K 5%	1/10W
R1002	1-216-295-91	SHORT 0		R1326	1-216-025-91	RES,CHIP 100 5%	1/10W
R1003	1-216-295-91	SHORT 0					
R1004	1-216-295-91	SHORT 0		R1327	1-216-025-91	RES,CHIP 100 5%	1/10W
R1005	1-216-295-91	SHORT 0		R1328	1-216-073-00	RES,CHIP 10K 5%	1/10W
				R1329	1-216-025-91	RES,CHIP 100 5%	1/10W
R1006	1-216-295-91	SHORT 0		R1330	1-216-041-00	RES,CHIP 470 5%	1/10W
R1100	1-216-025-91	RES,CHIP 100 5%	1/10W	R1331	1-216-041-00	RES,CHIP 470 5%	1/10W
R1101	1-216-057-00	RES,CHIP 2.2K 5%	1/10W				
R1102	1-216-057-00	RES,CHIP 2.2K 5%	1/10W	R1332	1-216-041-00	RES,CHIP 470 5%	1/10W
R1126	1-216-631-11	METAL CHIP 150 0.50%	1/10W	R1333	1-216-075-00	RES,CHIP 12K 5%	1/10W
				R1334	1-216-069-00	RES,CHIP 6.8K 5%	1/10W
R1127	1-216-075-00	RES,CHIP 12K 5%	1/10W	R1335	1-216-025-91	RES,CHIP 100 5%	1/10W
R1128	1-216-041-00	RES,CHIP 470 5%	1/10W	R1336	1-216-041-00	RES,CHIP 470 5%	1/10W
R1151	1-216-631-11	METAL CHIP 150 0.50%	1/10W				
R1152	1-216-075-00	RES,CHIP 12K 5%	1/10W	R1337	1-216-041-00	RES,CHIP 470 5%	1/10W
R1153	1-216-041-00	RES,CHIP 470 5%	1/10W	R1338	1-216-001-00	RES,CHIP 10 5%	1/10W
				R1339	1-216-041-00	RES,CHIP 470 5%	1/10W
				R1340	1-216-043-91	RES,CHIP 560 5%	1/10W
				R1342	1-216-073-00	RES,CHIP 10K 5%	1/10W
				R1350	1-216-073-00	RES,CHIP 10K 5%	1/10W
				R1351	1-216-025-91	RES,CHIP 100 5%	1/10W
				R1352	1-216-025-91	RES,CHIP 100 5%	1/10W

A**M**

REF.NO.	PART.NO	DESCRIPTION	REMARK	REF.NO.	PART.NO	DESCRIPTION	REMARK
R1353	1-216-073-00	RES,CHIP	10K 5% 1/10W	C9105	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
R1354	1-216-025-91	RES,CHIP	100 5% 1/10W	C9110	1-165-321-11	CERAMIC CHIP 0.68MF	10% 16V
R1355	1-216-041-00	RES,CHIP	470 5% 1/10W	C9111	1-164-157-11	CERAMIC CHIP 0.068MF	10% 25V
R1356	1-216-041-00	RES,CHIP	470 5% 1/10W	C9112	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
R1357	1-216-041-00	RES,CHIP	470 5% 1/10W	C9113	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
R1400	1-216-053-00	RES,CHIP	1.5K 5% 1/10W	C9114	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
R1401	1-216-081-00	RES,CHIP	22K 5% 1/10W	C9115	1-115-340-11	CERAMIC CHIP 0.22MF	10% 25V
R1402	1-216-097-91	RES,CHIP	100K 5% 1/10W	C9117	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
R1405	1-216-025-91	RES,CHIP	100 5% 1/10W	C9118	1-104-664-11	ELECT 47MF	20% 25V
R1406	1-216-025-91	RES,CHIP	100 5% 1/10W	C9119	1-163-259-91	CERAMIC CHIP 220PF	5% 50V
R1407	1-216-025-91	RES,CHIP	100 5% 1/10W	C9121	1-163-251-11	CERAMIC CHIP 100PF	5% 50V
R1408	1-216-025-91	RES,CHIP	100 5% 1/10W	C9122	1-115-340-11	CERAMIC CHIP 0.22MF	10% 25V
R1409	1-216-025-91	RES,CHIP	100 5% 1/10W	C9123	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
R1410	1-216-025-91	RES,CHIP	100 5% 1/10W	C9124	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
R1601	1-216-057-00	RES,CHIP	2.2K 5% 1/10W	C9125	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
R1602	1-216-691-11	METAL CHIP	47K 0.50% 1/10W	C9126	1-163-105-00	CERAMIC CHIP 33PF	5% 50V
R1603	1-216-025-91	RES,CHIP	100 5% 1/10W	C9127	1-163-15-00	CERAMIC CHIP 33PF	5% 50V
R1605	1-216-049-91	RES,CHIP	1K 5% 1/10W	C9128	1-163-15-00	CERAMIC CHIP 33PF	5% 50V
R1609	1-216-089-91	RES,CHIP	47K 5% 1/10W	C9129	1-163-105-00	CERAMIC CHIP 33PF	5% 50V
R1610	1-216-065-91	RES,CHIP	4.7K 5% 1/10W	C9130	1-163-105-00	CERAMIC CHIP 33PF	5% 50V
R1615	1-216-025-91	RES,CHIP	100 5% 1/10W	C9131	1-163-105-00	CERAMIC CHIP 33PF	5% 50V
R1616	1-216-304-11	RES,CHIP	3.3 5% 1/10W	9132	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
R1617	1-216-304-11	RES,CHIP	3.3 5% 1/10W	C94	1-115-340-11	CERAMIC CHIP 0.22MF	10% 25V
R1618	1-216-295-91	SHORT	0	C9500	1-104-664-11	ELECT 47MF	20% 25V
R1621	1-216-027-00	RES,CHIP	120 5% 1/10W	C9502	1-104-664-11	ELECT 47MF	20% 25V
R1622	1-216-029-00	RES,CHIP	150 5% 1/10W	C9503	1-126-964-11	ELECT 10MF	20% 50V
R1623	1-216-033-00	RES,CHIP	220 5% 1/10W	C9504	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
R1625	1-216-295-91	SHORT	0	C9505	1-104-665-11	ELECT 100MF	20% 25V
< TUNER >				C9506	1-163-251-11	CERAMIC CHIP 100PF	5% 50V
TU1326	1-693-338-21	TUNER/VIF (AEP) (KV-29FS60A/29 S60D/ 9FS60E/29FS60K/ 29FS60R/32FS60A/32FS60D/32FS60E)		C9507	1-115-340-11	CERAMIC CHIP 0.22MF	10% 25V
	1-693-340-21	TUNER/VIF (FR) (KV-29 S60B/32FS60B)		C9508	1-115-340-11	CERAMIC CHIP 0.22MF	10% 25V
	1-693-339-21	TUNER/VIF (UK) (KV-29FS60U)		C9509	1-163-251-11	CERAMIC CHIP 100PF	5% 50V
TU1350	1-693-338-21	TUNER/VIF (AEP) (KV-29FS60A/29FS60D/29FS60E/29FS60K/ 29FS60R/32FS60A/32FS60D/32FS60E)		C9510	1-115-340-11	CERAMIC CHIP 0.22MF	10% 25V
	1-693-340-21	TUNER/VIF (FR) (KV-29FS60B/32FS60B)		C9511	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
	1-693-339-21	TUNER/VIF (UK) (KV-29FS60U)		C9512	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
*****				C9513	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
*A-1634-049-A	M BOARD, COMPLETE (KV-29FS60)			C9514	1-163-235-11	CERAMIC CHIP 22PF	5% 50V
	*****			C9515	1-163-235-11	CERAMIC CHIP 22PF	5% 50V
*A-1634-048-A	M BOARD, COMPLETE (KV-32FS60)			C9516	1-163-251-11	CERAMIC CHIP 100PF	5% 50V
	*****			C9517	1-163-021-91	CERAMIC CHIP 0.01MF	10% 50V
< CAPACITOR >				C9518	1-115-340-11	CERAMIC CHIP 0.22MF	10% 25V
C9100	1-115-340-11	CERAMIC CHIP 0.22MF	10% 25V	C9519	1-126-964-11	ELECT 10MF	20% 50V
C9101	1-163-251-11	CERAMIC CHIP 100PF	5% 50V	C9520	1-163-251-11	CERAMIC CHIP 100PF	5% 50V
C9102	1-163-251-11	CERAMIC CHIP 100PF	5% 50V	< CONNECTOR >			
C9104	1-104-664-11	ELECT 47MF	20% 25V	CN9101	1-695-301-11	CONNECTOR, BOARD TO BOARD 40P	
				< DIODE >			
D9100	8-719-988-62	DIODE 1SS355		D9100	8-719-988-62	DIODE 1SS355	
D9101	8-719-988-62	DIODE 1SS355		D9101	8-719-988-62	DIODE 1SS355	
D9102	8-719-988-62	DIODE 1SS355		D9102	8-719-988-62	DIODE 1SS355	



REF. NO.	PART.NO	DESCRIPTION	REMARK	REF. NO.	PART.NO	DESCRIPTION	REMARK
D9103	8-719-988-62	DIODE 1SS355		R9102	1-216-033-00	RES,CHIP 220 5%	1/10W
D9104	8-719-056-83	DIODE UDZ-TE-17-6.8B		R9103	1-216-025-91	RES,CHIP 100 5%	1/10W
D9105	8-719-914-43	DIODE DAN202K		R9104	1-216-073-00	RES,CHIP 10K 5%	1/10W
D9107	8-719-025-31	DIODE 02CZ5.6-TE85L		R9105	1-216-073-00	RES,CHIP 10K 5%	1/10W
D9108	8-719-914-44	DIODE DAP202K		R9107	1-216-025-91	RES,CHIP 100 5%	1/10W
D9109	8-719-105-91	DIODE RD5.6M-B2		R9108	1-216-025-91	RES,CHIP 100 5%	1/10W
D9110	8-719-914-43	DIODE DAN202K		R9109	1-216-073-00	RES,CHIP 10K 5%	1/10W
D9111	8-719-105-91	DIODE RD5.6M-B2		R9110	1-216-081-00	RES,CHIP 22K 5%	1/10W
	< FILTER >			R9111	1-216-025-91	RES,CHIP 100 5%	1/10W
				R9112	1-216-025-91	RES,CHIP 100 5%	1/10W
FL9101	1-236-071-11	ENCAPSULATED COMPONENT		R9113	1-216-033-00	RES,CHIP 220 5%	1/10W
FL9500	1-236-071-11	ENCAPSULATED COMPONENT		R9114	1-216-083-00	RES,CHIP 27K 5%	1/10W
FL9501	1-236-071-11	ENCAPSULATED COMPONENT		R9115	1-216-081-00	RES,CHIP 2K 5%	1/10W
	< IC >			R9116	1-216-073-00	RES,CHIP 10K 5%	1/10W
				R9117	1-216-073-00	RES,CHIP 10K 5%	1/10W
IC9100	8-759-988-13	IC LM393PS		R9119	1 216 73-00	RES,CHIP 10K 5%	1/10W
IC9104	8-759-259-18	IC MB3793-42PNF		R9120	1-216-073 00	RES,CHIP 10K 5%	1/10W
IC9105	8-759-544-30	IC SAB-C161R1-LM		R9121	1-216-017- 1	RES,CHIP 47 5%	1/10W
IC9107	8-759-395-27	IC TC55257DFTL-70V		R9122	1 216-049 91	RES,CHIP 1K 5%	1/10W
IC9108	8-759-531-64	IC M24C32-BN6		R9123	1-216-073-00	RES,CHIP 10K 5%	1/10W
IC9109	8-759-544-32	IC M27C800-100K1		R9127	1-216-049-91	RES,CHIP 1K 5%	1/10W
IC9110	8-759-559-96	IC HEF4094BT		R9138	1-216-049-91	RES,CHIP 1K 5%	1/10W
IC9400	8-759-481-78	IC M29F040-120N1		R914	1-216-057-00	RES,CHIP 2.2K 5%	1/10W
IC9500	8-759-034-47	IC MC74F00M-T2		R 141	1-216-049-91	RES,CHIP 1K 5%	1/10W
IC9501	8-759-483-52	IC HYB514400BJ-60		R9142	1-216-041-00	RES,CHIP 470 5%	1/10W
IC9502	8-759-438-62	IC SDA5275		R9143	1-216-049-91	RES,CHIP 1K 5%	1/10W
	< COIL >			R9144	1-216-057-00	RES,CHIP 2.2K 5%	1/10W
				R9145	1-216-049-91	RES,CHIP 1K 5%	1/10W
L9400	1-412-029-11	INDUCTOR CHIP 10UH		R9146	1-216-049-91	RES,CHIP 1K 5%	1/10W
L9401	1-412-029-11	INDUCTOR CHIP 10UH		R9147	1-216-049-91	RES,CHIP 1K 5%	1/10W
	< TRANSISTOR >			R9148	1-216-073-00	RES,CHIP 10K 5%	1/10W
				R9149	1-216-025-91	RES,CHIP 100 5%	1/10W
Q9100	8-729-620-06	TRANSI TOR 2S 3052-EF		R9150	1-216-025-91	RES,CHIP 100 5%	1/10W
Q9101	8-729-620-06	TRANSISTOR 2SC3052-EF		R9151	1-216-025-91	RES,CHIP 100 5%	1/10W
Q9102	8-729-216-22	TRA SISTOR 2SA1162-G		R9153	1-216-025-91	RES,CHIP 100 5%	1/10W
Q9103	8-729-620-06	TRAN ISTOR 2SC3052-EF		R9159	1-216-069-00	RES,CHIP 6.8K 5%	1/10W
Q9105	8-729-620-06	TRANSISTOR 2SC3052-EF		R9161	1-216-069-00	RES,CHIP 6.8K 5%	1/10W
Q9106	8-729-027-46	TRANSISTOR DTC114YKA-T146		R9162	1-216-069-00	RES,CHIP 6.8K 5%	1/10W
Q9107	8-729-027-46	TRANSISTOR DTC114YKA-T146		R9164	1-216-069-00	RES,CHIP 6.8K 5%	1/10W
Q9108	8-729-027-46	TRANSISTOR DTC114YKA-T146		R9166	1-216-073-00	RES,CHIP 10K 5%	1/10W
Q9109	8-729-027-46	TRANSISTOR DTC114YKA-T146		R9168	1-216-069-00	RES,CHIP 6.8K 5%	1/10W
Q9110	8-729-620-06	TRANSISTOR 2SC3052-EF		R9169	1-216-069-00	RES,CHIP 6.8K 5%	1/10W
Q9500	8-729-216-22	TRANSISTOR 2SA1162-G		R9172	1-216-069-00	RES,CHIP 6.8K 5%	1/10W
Q9501	8-729-216-22	TRANSISTOR 2SA1162-G		R9173	1-216-295-91	SHORT 0	
Q9502	8-729-216-22	TRANSISTOR 2SA1162-G		R9174	1-216-025-91	RES,CHIP 100 5%	1/10W
Q9503	1-801-806-11	TRANSISTOR DTC144EKA-T146		R9175	1-216-025-91	RES,CHIP 100 5%	1/10W
Q9504	1-801-806-11	TRANSISTOR DTC144EKA-T146		R9176	1-216-025-91	RES,CHIP 100 5%	1/10W
	< RESISTOR >			R9177	1-216-025-91	RES,CHIP 100 5%	1/10W
				R9178	1-216-025-91	RES,CHIP 100 5%	1/10W
R9100	1-216-073-00	RES,CHIP 10K 5%	1/10W	R9184	1-216-025-91	RES,CHIP 100 5%	1/10W
R9101	1-216-033-00	RES,CHIP 220 5%	1/10W	R9185	1-216-025-91	RES,CHIP 100 5%	1/10W



REF. NO.	PART.NO	DESCRIPTION	REMARK	REF. NO.	PART.NO	DESCRIPTION	REMARK
R9186	1-216-025-91	RES,CHIP	100 5% 1/10W		*A-1638-123-A	C BOARD, COMPLETE (KV-29FS60)	
R9187	1-216-065-91	RES,CHIP	4.7K 5% 1/10W			*****	
R9188	1-216-025-91	RES,CHIP	100 5% 1/10W		*A-1638-122-A	C BOARD, COMPLETE (KV-32FS60)	
R9189	1-216-025-91	RES,CHIP	100 5% 1/10W			*****	
R9190	1-216-025-91	RES,CHIP	100 5% 1/10W				
R9191	1-216-025-91	RES,CHIP	100 5% 1/10W		1-671-108-11	PWB, C IC	
R9192	1-216-025-91	RES,CHIP	100 5% 1/10W		4-382-854-11	SCREW (M3X10), P, SW (+)	
R9193	1-216-097-91	RES,CHIP	100K 5% 1/10W			< CAPACITOR >	
R9194	1-216-097-91	RES,CHIP	100K 5% 1/10W		C5301	1-102-129-00 CERAMIC 0.01MF 10% 50V	
R9195	1-216-097-91	RES,CHIP	100K 5% 1/10W		C5302	1-128-528-11 ELECT 470MF 20% 16V	
R9196	1-216-073-00	RES,CHIP	10K 5% 1/10W		C5304	1-107-666-11 ELECT 1MF 20% 350V	
R9197	1-216-073-00	RES,CHIP	10K 5% 1/10W		C5305	1-136-207-11 FILM 0 47MF 10% 400V	
R9500	1-216-295-91	SHORT	0		C5306	1-102-157-00 CERAMIC 560PF 10% 500V	
R9501	1-216-295-91	SHORT	0		C5325	1-102-959-00 CERAMIC 22PF 5% 50V	
R9502	1-216-295-91	SHORT	0		C5326	1-102-157-00 CERAMIC 560PF 10% 500V	
R9504	1-216-041-00	RES,CHIP	470 5% 1/10W		C5327	1-102-129 0 CERAMIC 0.01MF 10% 50V	
R9505	1-216-051-00	RES,CHIP	1.2K 5% 1/10W		C5328	1-128-5 8-11 ELE T 470MF 20% 16V	
R9506	1-216-073-00	RES,CHIP	10K 5% 1/10W		C5329	1-107-6 6-11 ELECT 1MF 20% 350V	
R9507	1-216-097-91	RES,CHIP	100K 5% 1/10W		C5330	1- 36-207-11 FILM 0.047MF 10% 400V	
R9508	1-216-017-91	RES,CHIP	47 5% 1/10W		C5350	1- 07-907 11 ELECT 22MF 20% 50V	
R9509	1-216-049-91	RES,CHIP	1K 5% 1/10W		C5352	1-102-157-00 CERAMIC 560PF 10% 500V	
R9510	1-216-017-91	RES,CHIP	47 5% 1/10W		5353	1-102-129-00 CERAMIC 0.01MF 10% 50V	
R9511	1-216-049-91	RES,CHIP	1K 5% 1/10W		C53	1 128-528-11 ELECT 470MF 20% 16V	
R9512	1-216-017-91	RES,CHIP	47 5% 1/10W		C5355	1-107-666-11 ELECT 1MF 20% 350V	
R9513	1-216-017-91	RES,CHIP	47 5% 1/10W		C53 6	1-136-207-11 FILM 0.047MF 10% 400V	
R9514	1-216-017-91	RES,CHIP	47 5% 1/10W		C5375	1-107-902-11 ELECT 1MF 20% 50V	
R9515	1-216-295-91	SHORT	0		C5377	1-162-115-00 CERAMIC 330PF 10% 2KV	
R9516	1-216-295-91	SHORT	0		C5378	1-162-116-00 CERAMIC 680PF 10% 2KV	
R9517	1-216-295-91	SHORT	0		C5379	1-162-116-00 CERAMIC 680PF 10% 2KV	
R9518	1-216-049-91	RES,CHIP	1K 5% 1/ 0W		C5380	1-107-652-11 ELECT 10MF 20% 250V	
R9519	1-216-039-00	RES,CHIP	390 5% 1/10W		C5381	1-162-116-00 CERAMIC 680PF 10% 2KV	
R9520	1-216-039-00	RES,CHIP	390 5% 1/10W		C5382	1-162-114-00 CERAMIC 0.0047MF 2KV	
R9521	1-216-039-00	RES,CHIP	390 5% 1/10W			< CONNECTOR >	
R9522	1-216-295-91	SHORT	0		CN5400	1-564-511-11 PLUG, CONNECTOR 8P	
R9523	1-216-295-91	SHORT	0		CN5511	1-695-915-11 TAB (CONTACT)	
R9524	1-216-295-91	SHORT	0		CN5522	1-695-915-11 TAB (CONTACT)	
R9525	1-216-057-00	RES,CHIP	2.2K 5% 1/10W		CN5600	1-508-766-00 PIN, CONNECTOR (5MM PITCH) 4P	
R9526	1-216-057-00	RES,CHIP	2.2K 5% 1/10W			< DIODE >	
R9527	1-216-057-00	RES,CHIP	2.2K 5% 1/10W		D5300	8-719-911-19 DIODE 1SS119-25	
R9528	1-216-025-91	RES,CHIP	100 5% 1/10W		D5302	8-719-901-83 DIODE 1SS83	
R9529	1-216-025-91	RES,CHIP	100 5% 1/10W		D5325	8-719-911-19 DIODE 1SS119-25	
R9530	1-216-025-91	RES,CHIP	100 5% 1/10W		D5326	8-719-923-60 DIODE MTZJ-T-77-9.1A	
R9531	1-216-295-91	SHORT	0		D5327	8-719-901-83 DIODE 1SS83	
		< CRYSTAL >			D5350	8-719-911-19 DIODE 1SS119-25	
X9101	1-781-107-21	RESONATOR			D5351	8-719-991-33 DIODE 1SS133T-77	
X9500	1-760-551-21	VIBRATOR, CERAMIC			D5353	8-719-901-83 DIODE 1SS83	
					D5375	8-719-991-33 DIODE 1SS133T-77	
					D5376	8-719-991-33 DIODE 1SS133T-77	
					D5377	8-719-908-03 DIODE GP08D	

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

C **E**

REF. NO.	PART.NO	DESCRIPTION	REMARK	REF. NO.	PART.NO	DESCRIPTION	REMARK
D5378	8-719-921-88	DIODE MTZJ-13B		R5354	1-249-418-11	CARBON 1.2K 5%	1/4W
D5379	8-719-982-96	DIODE MTZJ-T-77-2.2A		R5355	1-249-408-11	CARBON 180 5%	1/4W
D5380	8-719-982-96	DIODE MTZJ-T-77-2.2A		R5356	1-249-417-11	CARBON 1K 5%	1/4W
D5381	8-719-031-34	DIODE RGP02-20EG23		R5357	1-202-565-00	SOLID 470 20%	1/2W
	< IC >			R5358	1-215-926-00	METAL OXIDE 33K 5%	3W F
IC5300	8-759-360-83	IC TDA6111Q/N4		R5359	1-247-863-91	CARBON 22K 5%	1/4W
IC5325	8-759-360-83	IC TDA6111Q/N4		R5360	1-249-424-11	CARBON 3.9K 5%	1/4W
IC5350	8-759-360-83	IC TDA6111Q/N4		R5361	1-249-425-11	CARBON 4.7K 5%	1/4W
	< SOCKET >			R5375	1-249-435-11	CARBON 33K 5%	1/4W
J5375	Δ 1-540-071-22	SOCKET, CRT		R5376	1-249-429-11	CARBON 10K 5%	1/4W
	< COIL >			R5377	1-249-430-11	CARBON 12K 5%	1/4W
L5300	1-408-599-31	INDUCTOR 4.7UH		R5378	1-249-429-11	CARBON 10K 5%	1/4W
L5325	1-408-599-31	INDUCTOR 4.7UH		R5379	1-249-438-11	CARBON 6K 5%	1/4W
L5350	1-408-599-31	INDUCTOR 4.7UH		R5380	1-247-863-91	CARBON 22K 5%	1/4W
L5375	1-410-671-31	INDUCTOR 47UH		R5381	1-249-420-11	CARBON 1.8K 5%	1/4W
L5376	1-412-525-31	INDUCTOR 10UH		R5382	1 202 549-00	SOLID 100 20%	1/2W
L5377	1-414-183-41	INDUCTOR 10UH		R5383	1-216-392 1	METAL OXIDE 6.8 5%	3W F
	< TRANSISTOR >			R5384	1-216-392- 1	METAL OXIDE 6.8 5%	3W F
Q5300	8-729-255-12	TRANSISTOR 2SC2551-0		R5385	1 202-549 00	SOLID 100 20%	1/2W
Q5325	8-729-255-12	TRANSISTOR 2SC2551-0		R5386	1-202-884-11	SOLID 820K 20%	1/2W
Q5350	8-729-029-56	TRANSISTOR DTA144ESA		R5387	1-202-884-11	SOLID 820K 20%	1/2W
Q5351	8-729-255-12	TRANSISTOR 2SC2551-0		R5388	1-215-911-11	METAL OXIDE 100 5%	3W F
Q5375	8-729-119-78	TRANSISTOR 2SC2785-HFE		R538	1-249-417-11	CARBON 1K 5%	1/4W F
Q5376	8-729-026-41	TRANSISTOR 2SA933AS-QRT			< VARIABLE RESISTOR >		
	< RESISTOR >			RV5375	1-241-656-21	RES, ADJ, METAL FILM 110M	
R5300	1-249-417-11	CARBON 1K 5%	1/4W	RV5376	1-230-641-11	RES, ADJ, METAL GLAZE 2.2M	
R5301	1-249-415-11	CARBON 680 5%	1/4W		*****		
R5302	1-249-408-11	CARBON 80 5%	1/4W	*A-1640-319-A	E BOARD, COMPLETE (KV-29FS60)		
R5303	1-249-417-11	CA BON 1K 5%	1/4W		*****		
R5304	1-202-565-00	SOL D 470 20%	1/2W	*A-1640-324-A	E BOARD, COMPLETE (KV-32FS60)		
R5305	1-215-926-00	METAL OXIDE 33K 5%	3W F		*****		
R5306	1-249-424-11	CARBON 3.9K 5%	1/4W		< CAPACITOR >		
R5307	1-247-863-91	CARBON 22K 5%	1/4W	C4316	1-104-664-11	ELECT 47MF 20%	25V
R5325	1-249-417-11	CARBON 1K 5%	1/4W	C4317	1-164-004-11	CERAMIC CHIP 0.1MF 10%	25V
R5326	1-249-415-11	CARBON 680 5%	1/4W	C4318	1-164-004-11	CERAMIC CHIP 0.1MF 10%	25V
R5327	1-249-408-11	CARBON 180 5%	1/4W	C4319	1-164-004-11	CERAMIC CHIP 0.1MF 10%	25V
R5328	1-249-417-11	CARBON 1K 5%	1/4W	C4320	1-164-004-11	CERAMIC CHIP 0.1MF 10%	25V
R5329	1-202-565-00	SOLID 470 20%	1/2W	C4321	1-164-004-11	CERAMIC CHIP 0.1MF 10%	25V
R5330	1-215-926-00	METAL OXIDE 33K 5%	3W F	C4322	1-164-004-11	CERAMIC CHIP 0.1MF 10%	25V
R5331	1-249-424-11	CARBON 3.9K 5%	1/4W	C4324	1-164-004-11	CERAMIC CHIP 0.1MF 10%	25V
R5332	1-247-863-91	CARBON 22K 5%	1/4W	C4325	1-163-093-00	CERAMIC CHIP 10PF 5%	50V
R5350	1-249-417-11	CARBON 1K 5%	1/4W	C4329	1-126-963-11	ELECT 4.7MF 20%	50V
R5351	1-249-415-11	CARBON 680 5%	1/4W	C4330	1-136-165-00	FILM 0.1MF 5%	50V
R5352	1-249-416-11	CARBON 820 5%	1/4W	C4331	1-126-959-11	ELECT 0.47MF 20%	50V
R5353	1-249-421-11	CARBON 2.2K 5%	1/4W	C4332	1-164-004-11	CERAMIC CHIP 0.1MF 10%	25V
				C4333	1-164-004-11	CERAMIC CHIP 0.1MF 10%	25V
				C4334	1-126-967-11	ELECT 47MF 20%	50V
				C4336	1-126-967-11	ELECT 47MF 20%	50V



REF. NO.	PART.NO	DESCRIPTION	REMARK	REF. NO.	PART.NO	DESCRIPTION	REMARK
C4338	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	D4313	8-719-401-63	DIODE MA3062M-TX	
C4340	1-126-967-11	ELECT 47MF	20% 50V			< FERRITE BEAD >	
C4342	1-163-021-91	CERAMIC CHIP 0.01MF	10% 50V	FB4387	1-216-295-91	SHORT	0
C4343	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	FB4388	1-216-295-91	SHORT	0
C4344	1-163-809-11	CERAMIC CHIP 0.047MF	10% 25V	FB4389	1-216-295-91	SHORT	0
C4345	1-126-967-11	ELECT 47MF	20% 50V			< IC >	
C4346	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	IC4301	8-752-086-23	IC CXA2100Q-TL	
C4347	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V			< COIL >	
C4348	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	L4301	1-414-183-41	INDUCTOR	10UH
C4349	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	L4302	1-414-183-41	INDUCTOR	10UH
C4350	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	L4303	1-414-183-41	INDUCTOR	0UH
C4351	1-163-009-11	CERAMIC CHIP 0.001MF	10% 50V	L4304	1-414-183-41	INDUCTOR	10UH
C4352	1-126-967-11	ELECT 47MF	20% 50V	L4305	1-414-183 41	INDUCTOR	10UH
C4353	1-107-823-11	CERAMIC CHIP 0.47MF	10% 16V	L4306	1-414-1 3-41	INDU TOR	10UH
C4354	1-107-823-11	CERAMIC CHIP 0.47MF	10% 16V	L4308	1- 08-609 41	IND CTOR	33UH
C4355	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	L4309	1- 08-609-41	INDUCTOR	33UH
C4356	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V			< TRANSISTOR >	
C4357	1-164-004-11	CERAMIC CHIP 0.1MF	10% 50V	Q43	8 729-216-22	TRANSISTOR 2SA1162-G	
		(KV-32FS60A/32FS60B/32FS60D/32FS60E)		Q4307	8-729-216-22	TRANSISTOR 2SA1162-G	
C4358	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	Q4308	8-729-216-22	TRANSISTOR 2SA1162-G	
C4359	1-164-161-11	CERAMIC CHIP 0.0022MF	10% 50V	Q43 9	8-729-216-22	TRANSISTOR 2SA1162-G	
C4360	1-126-963-11	ELECT 4.7MF	20% 50V	Q4310	8-729-216-22	TRANSISTOR 2SA1162-G	
C4362	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	Q4315	1-801-806-11	TRANSISTOR DTC144EKA-T146	
C4363	1-126-967-11	ELECT 47MF	20% 50V	Q4316	8-729-620-06	TRANSISTOR 2SC3052-EF	
C4364	1-126-967-11	ELECT 47MF	20% 50V	Q4317	8-729-900-53	TRANSISTOR DTC114EK	
C4366	1-163-021-91	CERAMIC CHIP 0.01MF	10% 50	Q4318	8-729-902-21	TRANSISTOR 2SA1037K-T-146-R	
C4367	1-163-809-11	CERAMIC CHIP 0.047MF	10% 25V			(KV-32FS60A/32FS60B/32FS60D/32FS60E)	
		(KV-29FS60A/29FS60B/29FS60D/29FS60E/ 29FS60K/29FS60R/29FS60U)				< RESISTOR >	
C4369	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	R4301	1-216-025-91	RES,CHIP	100 5% 1/10W
C4370	1-126-967-11	ELECT 47MF	0% 50V	R4302	1-216-025-91	RES,CHIP	100 5% 1/10W
C4371	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	R4303	1-216-025-91	RES,CHIP	100 5% 1/10W
C4377	1-126-960-11	ELECT 1MF	20% 50V	R4304	1-216-025-91	RES,CHIP	100 5% 1/10W
C4379	1-163-243-11	CERAMIC CHIP 47PF	5% 50V	R4305	1-216-025-91	RES,CHIP	100 5% 1/10W
		(KV-32FS 0A/32FS60B/32FS60D/32FS60E)		R4306	1-216-025-91	RES,CHIP	100 5% 1/10W
C4380	1-163-005-11	CERAMIC CHIP 470PF	10% 50V	R4313	1-216-065-91	RES,CHIP	4.7K 5% 1/10W
		(KV-32FS60A/32FS60B/32FS60D/32FS60E)		R4314	1-216-057-00	RES,CHIP	2.2K 5% 1/10W
C4381	1-163-249-11	CERAMIC CHIP 82PF	5% 50V	R4331	1-216-073-00	RES,CHIP	10K 5% 1/10W
C4518	1-162-638-11	CERAMIC CHIP 1MF	16V	R4332	1-216-073-00	RES,CHIP	10K 5% 1/10W
		< CONNECTOR >		R4333	1-216-073-00	RES,CHIP	10K 5% 1/10W
CN4101	1-695-301-11	CONNECTOR, BOARD TO BOARD 40P		R4334	1-216-025-91	RES,CHIP	100 5% 1/10W
CN4500	1-564-511-11	PLUG, CONNECTOR 8P		R4335	1-216-025-91	RES,CHIP	100 5% 1/10W
CN4502*	1-568-878-51	PIN, CONNECTOR 3P		R4336	1-216-025-91	RES,CHIP	100 5% 1/10W
		< DIODE >		R4337	1-216-025-91	RES,CHIP	100 5% 1/10W
D4304	8-719-923-60	DIODE MTZJ-T-77-9.1A		R4339	1-216-049-91	RES,CHIP	1K 5% 1/10W
D4305	8-719-923-60	DIODE MTZJ-T-77-9.1A		R4340	1-216-111-00	RES,CHIP	390K 5% 1/10W
D4311	8-719-914-43	DIODE DAN202K		R4341	1-216-295-91	SHORT	0
D4312	8-719-914-43	DIODE DAN202K					

REF. NO.	PART.NO	DESCRIPTION	REMARK	REF. NO.	PART.NO	DESCRIPTION	REMARK
R4343	1-216-025-91	RES,CHIP	100 5% 1/10W	R4403	1-216-073-91	RES,CHIP 10K 5% 1/10W (KV-32FS60A/32FS60B/32FS60D/32FS60E)	
R4344	1-216-025-91	RES,CHIP	100 5% 1/10W	R4404	1-216-073-91	RES,CHIP 10K 5% 1/10W (KV-32FS60A/32FS60B/32FS60D/32FS60E)	
R4345	1-216-677-11	METAL CHIP	12K 0.50% 1/10W	R4405	1-216-087-91	RES,CHIP 39K 5% 1/10W (KV-32FS60A/32FS60B/32FS60D/32FS60E)	
R4346	1-216-683-11	METAL CHIP	22K 0.50% 1/10W	R4406	1-216-105-91	RES,CHIP 220K 5% 1/10W (KV-32FS60A/32FS60B/32FS60D/32FS60E)	
R4347	1-216-025-91	RES,CHIP	100 5% 1/10W	R4407	1-216-091-91	RES,CHIP 56K 5% 1/10W (KV-32FS60A/32FS60B/32FS60D/32FS60E)	
R4348	1-216-025-91	RES,CHIP	100 5% 1/10W	R4504	1-216-295-91	SHORT 0	
R4350	1-216-025-91	RES,CHIP	100 5% 1/10W	R4505	1-216-295-91	SHORT 0	
R4354	1-216-675-11	METAL CHIP	10K 0.50% 1/10W	R4506	1-216-295-91	SHORT 0	
R4358	1-216-071-00	RES,CHIP	8.2K 5% 1/10W	R4507	1-216-129-00	RES,CHIP 2.2M 5% 1/10W	
R4359	1-216-041-00	RES,CHIP	470 5% 1/10W	R4518	1-216-025-91	RES,CHIP 100 5% 1/10W	
R4360	1-216-057-00	RES,CHIP	2.2K 5% 1/10W	R4519	1-216-025-91	RES,CHIP 100 5% 1/10W	
R4361	1-216-133-00	RES,CHIP	3.3M 5% 1/10W	R4520	1-216-295 91	SHORT 0	
R4363	1-216-025-91	RES,CHIP	100 5% 1/10W	R4521	1-216-295- 1	SHORT 0	
R4365	1-216-025-91	RES,CHIP	100 5% 1/10W	R4522	1 216-295 91	SHORT 0	
R4366	1-216-025-91	RES,CHIP	100 5% 1/10W	R4523	1-216-295-91	SHORT 0	
R4367	1-216-025-91	RES,CHIP	100 5% 1/10W			< CRYSTAL >	
R4370	1-216-077-00	RES,CHIP	15K 5% 1/10W	X430	1-767-127-11	VIBRATOR, CERAMIC	
R4371	1-216-069-00	RES,CHIP	6.8K 5% 1/10W			*****	
R4372	1-216-049-91	RES,CHIP	1K 5% 1/10W			*A-1640-320-A	D1 BOARD, COMPLETE (KV-29FS60) *****
R4373	1-216-073-00	RES,CHIP	10K 5% 1/10W			*A-1640-325-A	D1 BOARD, COMPLETE (KV-32FS60) *****
R4374	1-216-049-91	RES,CHIP	1K 5% 1/10W			4-382-854-11	SCREW (M3X10), P, SW (+)
R4375	1-216-049-91	RES,CHIP	1K 5% 1/10W				< CAPACITOR >
R4376	1-216-049-91	RES,CHIP	1K 5% 1/10W	C6100	1-136-165-00	FILM 0.1MF 5% 50V	
R4377	1-216-049-91	RES,CHIP	1K 5% 1/10W	C6101	1-136-165-00	FILM 0.1MF 5% 50V	
R4378	1-216-101-00	RES,CHIP	150K 5% 1/10W	C6102	1-136-165-00	FILM 0.1MF 5% 50V	
R4380	1-216-073-00	RES,CHIP	10K 5% 1/10W	C6103	1-163-205-00	CERAMIC CHIP 0.001MF 5% 50V	
R4381	1-216-125-00	RES,CHIP	1.5M 5% 1/10 (KV-29FS60A/29FS60B/29FS60D/2 F 60E/ 29FS60K/29FS60R/ 9FS60U)	C6104	1-163-205-00	CERAMIC CHIP 0.001MF 5% 50V	
	1-216-127-11	RES,CHIP	1.8M 1/10W (KV-32FS60A/32FS60B/32 S60D/32FS60E)	C6105	1-126-967-11	ELECT 47MF 20% 50V	
R4382	1-216-073-00	RES,CHIP	10K 5% 1/10W	C6106	1-163-133-00	CERAMIC CHIP 470PF 5% 50V	
R4383	1-216-089-91	RES,CHIP	47K 5% 1/10W (KV-29FS6 A/29FS60B/29FS60D/29FS60E/ 29FS60K/29FS60R/29FS60U)	C6108	1-163-021-91	CERAMIC CHIP 0.01MF 10% 50V	
	1-216-079-00	RES,CHIP	18K 5% 1/10W KV-32FS60A/32FS60B/32FS60D/32FS60E)	C6109	1-126-967-11	ELECT 47MF 20% 50V	
R4384	1-216-025-91	RES,CHIP	100 5% 1/10W	C6110	1-126-967-11	ELECT 47MF 20% 50V	
R4387	1-216-025-91	RES,CHIP	100 5% 1/10W	C6111	1-126-967-11	ELECT 47MF 20% 50V (KV-32FS60A/32FS60B/32FS60D/32FS60E)	
R4388	1-216-025-91	RES,CHIP	100 5% 1/10W	C6112	1-163-037-11	CERAMIC CHIP 0.022MF 10% 50V	
R4389	1-216-025-91	RES,CHIP	100 5% 1/10W	C6113	1-163-021-91	CERAMIC CHIP 0.01MF 10% 50V	
R4395	1-216-295-91	SHORT	0	C6114	1-126-964-11	ELECT 10MF 20% 50V	
R4396	1-216-295-91	SHORT	0	C6115	1-163-005-11	CERAMIC CHIP 470PF 10% 50V	
R4398	1-216-025-91	RES,CHIP	100 5% 1/10W	C6116	1-163-275-11	CERAMIC CHIP 0.001MF 5% 50V	
R4401	1-216-107-00	RES,CHIP	270K 5% 1/10W (KV-29FS60A/29FS60B/29FS60D/29FS60E/ 29FS60K/29FS60R/29FS60U)	C6117	1-163-275-11	CERAMIC CHIP 0.001MF 5% 50V	
	1-216-099-00	RES,CHIP	120K 5% 1/10W (KV-32FS60A/32FS60B/32FS60D/32FS60E)	C6119	1-163-021-91	CERAMIC CHIP 0.01MF 10% 50V	
R4402	1-216-133-91	RES,CHIP	56K 5% 1/10W (KV-32FS60A/32FS60B/32FS60D/32FS60E)				

D1

REF. NO.	PART.NO	DESCRIPTION	REMARK
C6121	1-126-964-11	ELECT 10MF	20% 50V
C6122	1-126-967-11	ELECT 47MF	20% 50V
C6125	1-163-017-00	CERAMIC CHIP 0.0047MF	10% 50V
C6126	1-163-809-11	CERAMIC CHIP 0.047MF	10% 25V
C6127	1-163-021-91	CERAMIC CHIP 0.01MF	10% 50V
C6128	1-163-017-00	CERAMIC CHIP 0.0047MF	10% 50V
C6129	1-115-339-11	CERAMIC CHIP 0.1MF (KV-29FS60A/29FS60B/29FS60D/29FS60E/ 29FS60K/29FS60R/29FS60U)	10% 50V
	1-164-336-11	CERAMIC CHIP 0.33MF (KV-32FS60A/32FS60B/32FS60D/32FS60E)	10% 50V
C6130	1-163-259-91	CERAMIC CHIP 220PF (KV-29FS60A/29FS60B/29FS60D/29FS60E/ 29FS60K/29FS60R/29FS60U)	5% 50V
C6131	1-126-964-11	ELECT 10MF	20% 50V
C6132	1-163-259-91	CERAMIC CHIP 220PF	5% 50V
C6199	1-163-229-11	CERAMIC CHIP 12PF	5% 50V
C6207	1-126-967-11	ELECT 47MF	20% 50V
C6208	1-126-967-11	ELECT 47MF	20% 50V
C6209	1-163-133-00	CERAMIC CHIP 470PF	5% 50V
C6210	1-163-009-11	CERAMIC CHIP 0.001MF	10% 50V
C6250	1-104-664-11	ELECT 47MF	20% 16V
C6253	1-115-339-11	CERAMIC CHIP 0.1MF	10% 50V
C6254	1-136-177-00	FILM 1MF	5% 50V
C6255	1-136-177-00	FILM 1MF	5% 50V
C6256	1-163-117-00	CERAMIC CHIP 100PF	5% 50V
C6257	1-115-339-11	CERAMIC CHIP 0.1MF	10% 50V
C6258	1-163-127-00	CERAMIC CHIP 270PF	5% 50V
C6259	1-110-501-11	CERAMIC CHIP 0.33MF	10% 16V
C6260	1-104-664-11	ELECT 47MF	20 1 V
C6261	1-115-339-11	CERAMIC CHIP 0.1MF	10% 50
C6262	1-136-165-00	FILM 0.1MF	5% 50V
C6263	1-163-109-00	CERAMIC CHIP 47PF	% 50V
C6264	1-126-964-11	ELECT 10MF	20% 50V
C6306	1-126-964-11	ELECT 10MF	20% 50V
C6307	1-163-021-91	CERAMIC CHIP 0.01MF	10% 50V
C6350	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C6351	1-126-967-11	ELECT 47MF	20% 50V
C6353	1-115-339-11	CERAMIC CHIP 0.1MF	10% 50V
C6354	1-136-159-00	FILM 0.033MF	5% 50V
C6355	1-163-251-11	CERAMIC CHIP 100PF	5% 50V
C6356	1-163-809-11	CERAMIC CHIP 0.047MF	10% 25V
C6357	1-136-165-00	FILM 0.1MF	5% 50V
C6358	1-104-329-11	CERAMIC CHIP 0.1MF	10% 50V
C6359	1-104-329-11	CERAMIC CHIP 0.1MF	10% 50V
C6360	1-107-714-11	ELECT 10MF	20% 50V
C6361	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C6362	1-164-182-11	CERAMIC CHIP 0.0033MF	10% 50V
C6363	1-104-665-11	ELECT 100MF	20% 25V
C6364	1-137-493-11	FILM 0.0047MF	5% 630V
C6365	1-163-809-11	CERAMIC CHIP 0.047MF	10% 25V

REF. NO.	PART.NO	DESCRIPTION	REMARK
C6367	1-104-329-11	CERAMIC CHIP 0.1MF	10% 50V
C6368	1-163-021-91	CERAMIC CHIP 0.01MF	10% 50V
C6370	1-137-493-11	FILM 0.0047MF	5% 630V
C6371	1-137-493-11	FILM 0.0047MF (KV-32FS60A/32FS60B/32FS60D/32FS60E)	5% 630V
C6373	1-136-153-00	FILM 0.01MF	5% 50V
C6374	1-137-499-11	FILM 0.015MF	5% 630V
C6375	1-102-110-00	CERAMIC 220PF	10% 50V
C6376	1-104-664-11	ELECT 47MF	20% 16V
C6377	1-128-551-11	ELECT 22MF	20% 25V
C6378	1-115-339-11	CERAMIC CHIP 0.1MF	10% 50V
C6380	1-136-165-00	FILM 0.1MF	5% 50V
C6381	1-126-960-11	ELECT 1MF	20% 50V
C6385	1-104-664-11	ELECT 47MF	20% 25V
C6386	1-104-664-11	ELECT 47MF	20% 25V
C6388	1-126-964 11	ELECT 10MF	20% 50V
C6389	1-126-9 4-11	ELE T 10MF	20% 50V
C6392	1-104-6 4-11	ELECT 47MF	20% 25V
C6401	1- 26-964 11	ELECT 10MF	20% 50V
C6402	1- 07-714-11	ELECT 10MF	20% 50V
C6407	1-136-161-00	FILM 0.047MF	5% 50V
6408	1-136-161-00	FILM 0.047MF	5% 50V
C64	1 126-964-11	ELECT 10MF	20% 50V
		< CONNECTOR >	
CN6502*	1-568-881-51	PIN, CONNECTOR 6P	
CN6601	1-695-302-11	CONNECTOR, BOARD TO BOARD 50P	
CN6622*	1-568-878-51	PIN, CONNECTOR 3P	
CN6633*	1-568-878-51	PIN, CONNECTOR 3P	
		< DIODE >	
D6100	8-719-914-43	DIODE DAN202K-T-146 (KV-32FS60A/32FS60B/32FS60D/32FS60E)	
D6101	8-719-921-40	DIODE MTZJ-T-77-4-7B (KV-32FS60A/32FS60B/32FS60D/32FS60E)	
D6102	8-719-914-43	DIODE DAN202K	
D6104	8-719-914-43	DIODE DAN202K	
D6105	8-719-914-43	DIODE DAN202K	
D6106	8-719-914-43	DIODE DAN202K	
D6108	8-719-921-40	DIODE MTZJ-4.7C	
D6127	8-719-914-43	DIODE DAN202K	
D6128	8-719-914-43	DIODE DAN202K	
D6129	8-719-914-43	DIODE DAN202K	
D6198	1-535-303-00	LEAD, JUMPER (5.0MM)	
D6253	8-719-911-19	DIODE 1SS119-25	
D6254	1-535-303-00	LEAD, JUMPER (5.0MM)	
D6350	8-719-914-43	DIODE DAN202K	
D6351	8-719-914-43	DIODE DAN202K	
D6352	8-719-914-43	DIODE DAN202K	
D6353	8-719-987-87	DIODE ERA85-009	
D6354	8-719-914-43	DIODE DAN202K	

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

D1

REF. NO.	PART.NO	DESCRIPTION	REMARK	REF. NO.	PART.NO	DESCRIPTION	REMARK
D6355	8-719-914-43	DIODE DAN202K (KV-32FS60A/32FS60B/32FS60D/32FS60E)		Q6123	8-729-216-22	TRANSISTOR 2SA1162-G	
	1-216-667-11	METAL CHIP 4.7K 0.50% 1/10W		Q6125	8-729-620-06	TRANSISTOR 2SC3052-EF	
D6358	8-719-914-43	DIODE DAN202K		Q6126	8-729-216-22	TRANSISTOR 2SA1162-G	
D6359	8-719-302-43	DIODE ELLIZ		Q6127	8-729-216-22	TRANSISTOR 2SA1162-G	
				Q6128	8-729-620-06	TRANSISTOR 2SC3052-EF	
D6401	8-719-914-43	DIODE DAN202K		Q6129	8-729-216-22	TRANSISTOR 2SA1162-G	
D6402	8-719-982-03	DIODE MTZJ-3.6A		Q6130	8-729-216-22	TRANSISTOR 2SA1162-G	
D6403	8-719-921-63	DIODE MTZJ-7.5B		Q6131	8-729-620-06	TRANSISTOR 2SC3052-EF	
D6404	8-719-914-43	DIODE DAN202K		Q6201	8-729-620-06	TRANSISTOR 2SC3052-EF	
D6405	8-719-921-63	DIODE MTZJ-7.5B		Q6202	8-729-620-06	TRANSISTOR 2SC3052-EF	
		< IC >		Q6250	8-729-620-06	TRANSISTOR 2SC3052-EF	
IC6100	8-759-450-95	IC LM393N		Q6251	8-729-620-06	TRANSISTOR 2C3052-EF	
IC6101	8-759-450-95	IC LM393N		Q6252	8-729-216-22	TRANSISTOR 2SA 162-G	
IC6102	8-759-701-50	IC NJM3404AD		Q6253	8-729-017-06	TRANSISTOR 2SC4793	
IC6103	8-759-450-95	IC LM393N		Q6254	8-729-017-05	TRANSISTOR 2SA1837	
IC6250	8-759-478-66	IC CXA8070P		Q6350	8-729-20-06	TRANSISTOR 2SC3052-EF	
IC6251	8-759-903-16	IC LM318P		Q6351	8-729-119 78	TRANSISTOR 2SC2785-HFE	
IC6302	8-752-072-94	IC CXA1875AM-T4		Q6352	8-729-140- 7	TRANSISTOR 2SB734-34	
IC6350	8-759-008-70	IC LM358N		Q6353	8-729-140 97	TRANSISTOR 2SB734-34	
IC6351	8-759-450-95	IC LM393N		Q6354	8-729-620-06	TRANSISTOR 2SC3052-EF	
IC6352	8-759-450-95	IC LM393N		Q6356	8-729-620-06	TRANSISTOR 2SC3052-EF	
IC6353	8-759-231-53	IC TA7805S		Q6358	8-729-038-83	TRANSISTOR 2SK2251-01-F19	
IC6354	8-759-325-48	IC CA0005AD		Q6401	1-801-806-11	TRANSISTOR DTC144EKA-T146	
IC6355	8-759-008-70	IC LM358N		Q 402	1-801-806-11	TRANSISTOR DTC144EKA-T146	
IC6356	8-759-822-38	IC LA6510		Q6403	8-729-620-06	TRANSISTOR 2SC3052-EF	
		< FILTER >		Q6404	8-729-216-22	TRANSISTOR 2SA1162-G	
LF6350	1-406-989-21	INDUCTOR	OUH	Q6405	8-729-216-22	TRANSISTOR 2SA1162-G	
LF6351	1-406-989-21	INDUCTOR	OUH	Q6455	8-729-620-06	TRANSISTOR 2SC3052-EF	
		< IC LINK >		Q6465	8-729-620-06	TRANSISTOR 2SC3052-EF	
PS6376 Δ	1-532-637-00	LINK, IC 1A	(IC N25)			< RESISTOR >	
		< TRANSISTOR >		R6100	1-216-033-00	RES,CHIP 220 5% 1/10W	
Q6100	8-729-620-06	TRANSISTOR 2SC3052-EF		R6101	1-216-033-00	RES,CHIP 220 5% 1/10W	
Q6101	8-729-620-06	TRANSISTOR 2SC3052-EF		R6102	1-216-057-00	RES,CHIP 2.2K 5% 1/10W	
Q6102	8-729-620-06	TRANSISTOR 2SC3052-EF		R6103	1-216-057-00	RES,CHIP 2.2K 5% 1/10W	
Q6103	8-729-620-06	TRANSISTOR 2SC3052-EF		R6104	1-216-057-00	RES,CHIP 2.2K 5% 1/10W	
Q6104	8-729-620-06	TRANSISTOR 2SC3052-EF		R6105	1-216-049-91	RES,CHIP 1K 5% 1/10W	
Q6105	8-729-620-06	TRANSISTOR 2SC3052-EF		R6106	1-216-057-00	RES,CHIP 2.2K 5% 1/10W	
Q6106	8-729-620-06	TRANSISTOR 2SC3052-EF		R6107	1-216-659-11	METAL CHIP 2.2K 0.50% 1/10W (KV-29FS60A/29FS60B/29FS60D/29FS60E/ 29FS60K/29FS60R/29FS60U)	
Q6107	8-729-620-06	TRANSISTOR 2SC3052-EF			1-216-657-11	METAL CHIP 1.8K 0.50% 1/10W (KV-32FS60A/32FS60B/32FS60D/32FS60E)	
Q6108	8-729-216-22	TRANSISTOR 2SA1162-G		R6108	1-216-659-11	METAL CHIP 2.2K 0.50% 1/10W (KV-29FS60A/29FS60B/29FS60D/29FS60E/ 29FS60K/29FS60R/29FS60U)	
Q6110	8-729-216-22	TRANSISTOR 2SA1162-G			1-216-657-11	METAL CHIP 1.8K 0.50% 1/10W (KV-32FS60A/32FS60B/32FS60D/32FS60E)	
Q6112	8-729-620-06	TRANSISTOR 2SC3052-EF		R6109	1-216-683-11	METAL CHIP 22K 0.50% 1/10W	
Q6113	8-729-620-06	TRANSISTOR 2SC3052-EF					
Q6118	8-729-620-06	TRANSISTOR 2SC3052-EF					
Q6119	8-729-216-22	TRANSISTOR 2SA1162-G					
Q6120	8-729-216-22	TRANSISTOR 2SA1162-G					
Q6122	8-729-216-22	TRANSISTOR 2SA1162-G					

D1

REF. NO.	PART.NO	DESCRIPTION	REMARK
R6110	1-216-679-11	METAL CHIP 15K 0.50% 1/10W (KV-29FS60A/29FS60B/29FS60D/29FS60E/ 29FS60K/29FS60R/29FS60U)	
	1-216-683-11	METAL CHIP 22K 0.50% 1/10W (KV-32FS60A/32FS60B/32FS60D/32FS60E)	
R6111	1-216-057-00	RES,CHIP 2.2K 5% 1/10W	
R6112	1-216-057-00	RES,CHIP 2.2K 5% 1/10W	
R6113	1-216-073-00	RES,CHIP 10K 5% 1/10W	
R6114	1-216-073-00	RES,CHIP 10K 5% 1/10W	
R6115	1-216-089-91	RES,CHIP 47K 5% 1/10W	
R6116	1-216-089-91	RES,CHIP 47K 5% 1/10W	
R6117	1-216-073-00	RES,CHIP 10K 5% 1/10W	
R6118	1-216-073-00	RES,CHIP 10K 5% 1/10W	
R6119	1-216-073-00	RES,CHIP 10K 5% 1/10W	
R6120	1-216-057-00	RES,CHIP 2.2K 5% 1/10W	
R6121	1-216-057-00	RES,CHIP 2.2K 5% 1/10W	
R6122	1-216-057-00	RES,CHIP 2.2K 5% 1/10W	
R6123	1-216-089-91	RES,CHIP 47K 5% 1/10W	
R6124	1-216-089-91	RES,CHIP 47K 5% 1/10W	
R6125	1-216-057-00	RES,CHIP 2.2K 5% 1/10W	
R6126	1-216-037-00	RES,CHIP 330 5% 1/10W	
R6127	1-216-663-11	RES,CHIP 3.3K 0.50% 1/10W (KV-29FS60A/29FS60B/29FS60D/29FS60E/ 29FS60K/29FS60R/29FS60U)	
	1-216-659-11	METAL CHIP 2.2K 0.50% 1/10W (KV-32FS60A/32FS60B/32FS60D/32FS60E)	
R6128	1-216-691-11	METAL CHIP 47K 0.50% 1/10W	
R6129	1-216-691-11	METAL CHIP 47K 0.50% 1/10W (KV-32FS60A/32FS60B/32FS60D/32FS60E)	
R6130	1-218-768-11	METAL CHIP 470K 0.50% 1/ 0W	
R6131	1-216-037-00	RES,CHIP 330 5% 1/1 W	
R6132	1-216-037-00	RES,CHIP 330 5% 1/10W	
R6133	1-216-037-00	RES,CHIP 330 5% 1/10W	
R6134	1-216-057-00	RES,CHIP .2K 5% 1/10W (KV-3 FS60A/32FS60B/32FS60D/32FS60E)	
R6135	1-163-021-91	CERAMIC CHIP 0.01MF 10% 50V (KV-29FS 0A/29FS60B/29FS60D/29FS60E/ 29FS60K/29FS60R/29FS60U)	
	1-216-057-00	RES,CHIP 2.2K 5% 1/10W (KV-32FS60A/32FS60B/32FS60D/32FS60E)	
R6136	1-216-691-11	METAL CHIP 47K 0.50% 1/10W	
R6137	1-216-691-11	METAL CHIP 47K 0.50% 1/10W	
R6138	1-216-691-11	METAL CHIP 47K 0.50% 1/10W	
R6139	1-216-691-11	METAL CHIP 47K 0.50% 1/10W	
R6140	1-216-057-00	RES,CHIP 2.2K 5% 1/10W	
R6141	1-216-683-11	METAL CHIP 22K 0.50% 1/10W (KV-29FS60A/29FS60B/29FS60D/29FS60E/ 29FS60K/29FS60R/29FS60U)	
	1-216-671-11	METAL CHIP 6.8K 0.50% 1/10W (KV-32FS60A/32FS60B/32FS60D/32FS60E)	

REF. NO.	PART.NO	DESCRIPTION	REMARK
R6142	1-216-672-11	METAL CHIP 7.5K 0.50% 1/10W (KV-29FS60A/29FS60B/29FS60D/29FS60E/ 29FS60K/29FS60R/29FS60U)	
	1-216-659-11	METAL CHIP 2.2K 0.50% 1/10W (KV-32FS60A/32FS60B/32FS60D/32FS60E)	
R6143	1-216-057-00	RES,CHIP 2.2K 5% 1/10W	
R6145	1-216-045-00	RES,CHIP 680 5% 1/10W	
R6146	1-216-667-11	METAL CHIP 4.7K 0.50% 1/10W (KV-29FS60A/29FS60B/29FS60D/29FS60E/ 29FS60K/29FS60R/29FS60U)	
	1-216-065-91	RES,CHIP 4.7K 5% 1/10W (KV-32FS60A/32FS60B/32FS60D/32FS60E)	
R6147	1-216-057-00	RES,CHIP 2.2K 5% 1/10W	
R6148	1-216-057-00	RES,CHIP 2.2K 5% 1/10W	
R6149	1-216-025-91	RES,CHI 1 0 5% 1/10W	
R6154	1-216-651-11	METAL CHIP 1K 0.50% 1/10W	
R6155	1-216-699 11	METAL CHIP 100K 0.50% 1/10W	
R6158	1-216-6 3-11	META CHIP 6.8K 0.50% 1/10W	
R6159	1- 16-295 91	SHORT 0	
R6160	1- 16-295-91	SHORT 0 (KV-29FS60A/29FS60B/29FS60D/29FS60E/ 29FS60K/29FS60R/29FS60U)	
	1-216-655-11	METAL CHIP 1.5K 0.50% 1/10W (KV-32FS60A/32FS60B/32FS60D/32FS60E)	
R6161	1-216-673-11	METAL CHIP 8.2K 0.50% 1/10W (KV-29FS60A/29FS60B/29FS60D/29FS60E/ 29FS60K/29FS60R/29FS60U)	
	1-216-669-11	METAL CHIP 5.6K 0.50% 1/10W (KV-32FS60A/32FS60B/32FS60D/32FS60E)	
R6162	1-216-049-91	RES,CHIP 1K 5% 1/10W	
R6165	1-216-699-11	METAL CHIP 100K 0.50% 1/10W	
R6168	1-216-065-91	RES,CHIP 4.7K 5% 1/10W	
R6169	1-216-699-11	METAL CHIP 100K 0.50% 1/10W	
R6170	1-216-037-00	RES,CHIP 330 5% 1/10W	
R6171	1-216-057-00	RES,CHIP 2.2K 5% 1/10W	
R6174	1-216-075-00	RES,CHIP 12K 5% 1/10W (KV-29FS60A/29FS60B/29FS60D/29FS60E/ 29FS60K/29FS60R/29FS60U)	
	1-216-081-00	RES,CHIP 22K 5% 1/10W (KV-32FS60A/32FS60B/32FS60D/32FS60E)	
R6175	1-216-075-00	RES,CHIP 12K 5% 1/10W	
R6176	1-216-683-11	METAL CHIP 22K 0.50% 1/10W (KV-29FS60A/29FS60B/29FS60D/29FS60E/ 29FS60K/29FS60R/29FS60U)	
	1-216-295-91	SHORT 0 (KV-32FS60A/32FS60B/32FS60D/32FS60E)	
R6177	1-216-065-91	RES,CHIP 4.7K 5% 1/10W	
R6178	1-216-073-00	RES,CHIP 10K 5% 1/10W	
R6179	1-216-655-11	METAL CHIP 1.5K 0.50% 1/10W (KV-29FS60A/29FS60B/29FS60D/29FS60E/ 29FS60K/29FS60R/29FS60U)	
	1-216-061-00	METAL CHIP 3.3K 5% 1/10W (KV-32FS60A/32FS60B/32FS60D/32FS60E)	

REF. NO.	PART.NO	DESCRIPTION	REMARK	REF. NO.	PART.NO	DESCRIPTION	REMARK
R6180	1-216-057-00	RES,CHIP 2.2K 5%	1/10W	R6215	1-216-683-11	METAL CHIP 22K 0.50%	1/10W
R6182	1-216-089-91	RES,CHIP 47K 5%	1/10W			(KV-29FS60A/29FS60B/29FS60D/29FS60E/ 29FS60K/29FS60R/29FS60U)	
R6183	1-216-057-00	RES,CHIP 2.2K 5%	1/10W	1-216-089-91	RES,CHIP 47K 5%	1/10W	(KV-32FS60A/32FS60B/32FS60D/32FS60E)
R6186	1-216-663-11	METAL CHIP 3.3K 0.50%	1/10W				
		(KV-29FS60A/29FS60B/29FS60D/29FS60E/ 29FS60K/29FS60R/29FS60U)		R6216	1-216-089-91	RES,CHIP 47K 5%	1/10W
1-216-049-91	METAL CHIP 1K 5%	1/10W				(KV-29FS60A/29FS60B/29FS60D/29FS60E/ 29FS60K/29FS60R/29FS60U)	
		(KV-32FS60A/32FS60B/32FS60D/32FS60E)		1-216-065-00	RES,CHIP 4.7K 5%	1/10W	(KV-32FS60A/32FS60B/32FS60D/32FS60E)
R6187	1-216-065-91	RES,CHIP 4.7K 5%	1/10W				
R6189	1-216-295-91	SHORT 0					
		(KV-29FS60A/29FS60B/29FS60D/29FS60E/ 29FS60K/29FS60R/29FS60U)		R6217	1-216-073-00	RES,CHIP 10K 5%	1/10W
1-216-049-91	RES,CHIP 1K 5%	1/10W		R6254	1-216-049-91	RES,CHI 1K 5%	1/10W
		(KV-32FS60A/32FS60B/32FS60D/32FS60E)		R6255	1-216-061-00	RES,CHIP 3K 5%	1/10W
R6190	1-216-057-00	RES,CHIP 2.2K 5%	1/10W	R6256	1-216-057-00	RES,CHIP 2.2K 5%	1/10W
R6191	1-215-925-11	METAL OXIDE 22K 5%	3W F	R6257	1-216-061-00	RES,CHIP 3.3K 5%	1/10W
R6192	1-216-665-11	METAL CHIP 3.9K 0.50%	1/10W				
		(KV-29FS60A/29FS60B/29FS60D/29FS60E/ 29FS60K/29FS60R/29FS60U)		R6258	1 216 57-00	RES,CHIP 2.2K 5%	1/10W
1-216-683-11	METAL CHIP 22K 0.50%	1/10W		R6259	1-216-097 91	RES,CHIP 100K 5%	1/10W
		(KV-32FS60A/32FS60B/32FS60D/32FS60E)		R6260	1-216-049- 1	RES,CHIP 1K 5%	1/10W
R6194	1-216-065-91	RES,CHIP 4.7K 5%	1/10W	R6261	1 216-097 91	RES,CHIP 100K 5%	1/10W
R6195	1-216-683-11	METAL CHIP 22K 0.50%	1/10W	R6262	1-260-321-71	CARBON 270 5%	1/2W
		(KV-29FS60A/29FS60B/29FS60D/29FS60E/ 29FS60K/29FS60R/29FS60U)					
1-216-695-11	METAL CHIP 68K 0.50%	1/10W		R6263	1-216-025-91	RES,CHIP 100 5%	1/10W
		(KV-32FS60A/32FS60B/32FS60D/32FS60E)		R6264	1-216-025-91	RES,CHIP 100 5%	1/10W
R6196	1-249-377-11	CARBON 0.47 5%	1/4W F	R6265	1-216-097-91	RES,CHIP 100K 5%	1/10W
R6198	1-216-081-00	RES,CHIP 22K 5%	1/10W			(KV-29FS60A/29FS60B/29FS60D/29FS60E/ 29FS60K/29FS60R/29FS60U)	
		(KV-29FS60A/29FS60B/29FS60D/29FS60E/ 29FS60K/29FS60R/29FS60U)		1-216-103-00	RES,CHIP 180K 5%	1/10W	(KV-32FS60A/32FS60B/32FS60D/32FS60E)
1-216-089-00	RES,CHIP 47K 5%	1 10W					
		(KV-32FS60A/32FS60 /32FS60D/32FS60E)		R6267	1-216-049-91	RES,CHIP 1K 5%	1/10W
R6199	1-216-081-00	RES,CHIP 22K 5%	1/10W	R6268	1-216-085-00	RES,CHIP 33K 5%	1/10W
		(KV-29FS6 A/29FS60B/29FS60D/29FS60E/ 29FS60K/29FS60R/29FS60U)				(KV-32FS60A/32FS60B/32FS60D/32FS60E)	
1-216-089-00	RES,CHIP 47K 5%	1/10W		R6269	1-216-667-11	METAL CHIP 4.7K 0.50%	1/10W
		(KV-32FS60A/32FS60B/32FS60D/32FS60E)		R6270	1-216-667-11	METAL CHIP 4.7K 0.50%	1/10W
R6200	1-218-762-11	METAL CHIP 270K 0.50%	1/10W				
		(KV-32FS60A/32FS60B/32FS60D/32FS60E)		R6271	1-216-683-11	METAL CHIP 22K 0.50%	1/10W
R6205	1-216-025-91	RES,CHIP 100 5%	1/10W	R6272	1-216-081-00	RES,CHIP 22K 5%	1/10W
R6206	1-216-105-91	RES,CHIP 220K 5%	1/10W	R6273	1-216-081-00	RES,CHIP 22K 5%	1/10W
R6207	1-216-101-00	RES,CHIP 150K 5%	1/10W			(KV-29FS60A/29FS60B/29FS60D/29FS60E/ 29FS60K/29FS60R/29FS60U)	
		(KV-29FS60A/29FS60B/29FS60D/29FS60E/ 29FS60K/29FS60R/29FS60U)		R6276	1-216-689-11	METAL CHIP 39K 0.50%	1/10W
1-216-109-00	RES,CHIP 330K 5%	1/10W				(KV-29FS60A/29FS60B/29FS60D/29FS60E/ 29FS60K/29FS60R/29FS60U)	
		(KV-32FS60A/32FS60B/32FS60D/32FS60E)		1-216-686-11	METAL CHIP 30K 0.50%	1/10W	(KV-32FS60A/32FS60B/32FS60D/32FS60E)
R6208	1-216-089-91	RES,CHIP 47K 5%	1/10W				
R6210	1-216-057-00	RES,CHIP 2.2K 5%	1/10W	R6277	1-216-686-11	METAL CHIP 30K 0.50%	1/10W
R6211	1-216-073-00	RES,CHIP 10K 5%	1/10W	R6278	1-216-057-00	RES,CHIP 2.2K 5%	1/10W
R6212	1-216-057-00	RES,CHIP 2.2K 5%	1/10W	R6279	1-216-057-00	RES,CHIP 2.2K 5%	1/10W
				R6280	1-249-377-11	CARBON 0.47 5%	1/4W F
				R6281	1-249-377-11	CARBON 0.47 5%	1/4W F
				R6282	1-215-886-11	METAL OXIDE 100 5%	2W F
				R6283	1-216-393-00	METAL OXIDE 2.2 5%	3W F

D1

REF. NO.	PART.NO	DESCRIPTION	REMARK	REF. NO.	PART.NO	DESCRIPTION	REMARK
R6284	1-216-113-00	RES,CHIP 470K 5% 1/10W (KV-29FS60A/29FS60B/29FS60D/29FS60E/ 29FS60K/29FS60R/29FS60U)		R6372	1-216-033-00	RES,CHIP 220 5% 1/10W	
	1-216-109-00	RES,CHIP 330K 5% 1/10W (KV-32FS60A/32FS60B/32FS60D/32FS60E)		R6373	1-216-681-11	METAL CHIP 18K 0.50% 1/10W	
R6285	1-216-057-00	RES,CHIP 2.2K 5% 1/10W		R6374	1-216-689-11	METAL CHIP 39K 0.50% 1/10W	
R6286	1-216-073-00	RES,CHIP 10K 5% 1/10W (KV-29FS60A/29FS60B/29FS60D/29FS60E/ 29FS60K/29FS60R/29FS60U)		R6375	1-216-041-00	RES,CHIP 470 5% 1/10W	
	1-216-069-00	RES,CHIP 6.8K 5% 1/10W (KV-32FS60A/32FS60B/32FS60D/32FS60E)		R6377	1-216-689-11	METAL CHIP 39K 0.50% 1/10W	
R6287	1-216-073-00	RES,CHIP 10K 5% 1/10W		R6378	1-216-675-11	METAL CHIP 10K 0.50% 1/10W	
R6313	1-216-295-91	SHORT 0		R6379	1-216-295-91	SHORT 0	
R6322	1-216-049-91	RES,CHIP 1K 5% 1/10W		R6380	1-218-754-11	METAL CHIP 120K 0.50% 1/10W	
R6323	1-216-049-91	RES,CHIP 1K 5% 1/10W		R6381	1-216-045-00	RES,CHIP 680 5% 1/10W	
R6324	1-216-025-91	RES,CHIP 100 5% 1/10W		R6382	1-218-754-11	METAL CHIP 120K 0.50% 1/10W	
R6325	1-216-025-91	RES,CHIP 100 5% 1/10W		R6383	1-216-687-11	METAL CHIP 33K 0.50% 1/10W	
R6350	1-216-089-91	RES,CHIP 47K 5% 1/10W		R6384	1-216-043-91	RES,CHIP 5 0 % 1/10W	
R6351	1-218-762-11	METAL CHIP 270K 0.50% 1/10W		R6385	1-216-295-91	SHORT	
R6353	1-216-668-11	METAL CHIP 5.1K 0.50% 1/10W (KV-29FS60A/29FS60B/29FS60D/29FS60E/ 29FS60K/29FS60R/29FS60U)		R6386	1-216-699-11	METAL CHIP 100K 0.50% 1/10W	
	1-216-671-11	METAL CHIP 6.8K 0.50% 1/10W (KV-32FS60A/32FS60B/32FS60D/32FS60E)		R6387	1-216-677-11	METAL C IP 1 K 0.50% 1/10W	
R6355	1-218-774-11	METAL CHIP 820K 0.50% 1/10W		R6391	1-249-417 11	ARBON 1K 5% 1/4W	
R6356	1-216-675-11	METAL CHIP 10K 0.50% 1/10W		R6394	1-216-0 9-00	RES,CHIP 6.8K 5% 1/10W	
R6357	1-216-057-00	RES,CHIP 2.2K 5% 1/10W		R6395	1-216-0 1-00	RES, HIP 22K 5% 1/10W	
R6358	1-216-047-91	RES,CHIP 820 5% 1/10W		R6397	1- 16-675 11	METAL CHIP 10K 0.50% 1/10W	
R6359	1-216-097-91	RES,CHIP 100K 5% 1/10W		R6398	1- 16-065-91	RES,CHIP 4.7K 5% 1/10W	
R6360	1-216-073-00	RES,CHIP 10K 5% 1/ 0W		R6399	1-218-758-11	METAL CHIP 180K 0.50% 1/10W (KV-29FS60A/29FS60B/29FS60D/29FS60E/ 29FS60K/29FS60R/29FS60U)	
R6361	1-216-097-91	RES,CHIP 100K 5% 1/1 W			1-218-756-11	METAL CHIP 150K 0.50% 1/10W (KV-32FS60A/32FS60B/32FS60D/32FS60E)	
R6362	1-216-687-11	METAL CHIP 33K 0.50% 1/10W		R6400	1-216-675-11	METAL CHIP 10K 0.50% 1/10W	
R6363	1-216-675-11	METAL CHIP 10K 0.50% 1/10W		R6401	1-216-295-91	SHORT 0	
R6364	1-216-057-00	RES,CHIP 2 2K 5% 1/10W		R6402	1-216-295-91	SHORT 0	
R6365	1-216-033-00	RES,CHIP 220 5% 1/10W		R6403	1-216-661-11	METAL CHIP 2.7K 0.50% 1/10W	
R6366	1-216-057-00	RES,CHIP 2.2K 5% 1/10W		R6404	1-216-683-11	METAL CHIP 22K 0.50% 1/10W	
R6367	1-216-679-11	METAL CHIP 15K 0.50% 1/10W		R6405	1-216-683-11	METAL CHIP 22K 0.50% 1/10W	
R6368	1-218-758-11	METAL CHIP 180K 0.50% 1/10W (KV-29FS60A/29FS60B/29FS60D/29FS60E/ 29FS60K/29FS60R/29FS60U)		R6409	1-216-025-91	RES,CHIP 100 5% 1/10W	
	1-218-760-11	METAL CHIP 220K 0.50% 1/10W (KV-32FS60A/32FS60B/32FS60D/32FS60E)		R6410	1-216-073-00	RES,CHIP 10K 5% 1/10W	
R6369	1-218-762-11	METAL CHIP 270K 0.50% 1/10W		R6411	1-216-073-00	RES,CHIP 10K 5% 1/10W	
R6370	1-216-675-11	METAL CHIP 10K 0.50% 1/10W (KV-29FS60A/29FS60B/29FS60D/29FS60E/ 29FS60K/29FS60R/29FS60U)		R6412	1-216-073-00	RES,CHIP 10K 5% 1/10W	
	1-216-677-11	METAL CHIP 12K 0.50% 1/10W (KV-32FS60A/32FS60B/32FS60D/32FS60E)		R6413	1-216-679-11	METAL CHIP 15K 0.50% 1/10W	
R6371	1-216-473-11	METAL OXIDE 56 5% 3W (KV-29FS60A/29FS60B/29FS60D/29FS60E/ 29FS60K/29FS60R/29FS60U)		R6414	1-216-679-11	METAL CHIP 15K 0.50% 1/10W	
	1-216-474-11	METAL OXIDE 82 5% 3W F (KV-32FS60A/32FS60B/32FS60D/32FS60E)		R6415	1-216-683-11	METAL CHIP 22K 0.50% 1/10W	
				R6416	1-216-683-11	METAL CHIP 22K 0.50% 1/10W	
				R6418	1-216-093-00	RES,CHIP 33K 5% 1/10W	
				R6419	1-216-073-00	RES,CHIP 10K 5% 1/10W	
				R6420	1-216-091-00	RES,CHIP 22K 5% 1/10W	
				R6421	1-216-637-11	METAL CHIP 270 0.50% 1/10W	
				R6422	1-216-639-11	METAL CHIP 330 0.50% 1/10W	
				R6423	1-216-657-11	METAL CHIP 1.8K 0.50% 1/10W	
				R6426	1-216-081-00	RES,CHIP 22K 5% 1/10W	
				R6427	1-216-081-00	RES,CHIP 22K 5% 1/10W	
				R6428	1-216-107-00	RES,CHIP 150K 5% 1/10W	
				R6429	1-216-065-91	RES,CHIP 4.7K 5% 1/10W	
				R6430	1-216-065-91	RES,CHIP 4.7K 5% 1/10W	

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

D1 **D**

REF. NO.	PART.NO	DESCRIPTION	REMARK	REF. NO.	PART.NO	DESCRIPTION	REMARK
R6431	1-216-113-00	RES,CHIP 470K 5% 1/10W (KV-32FS60A/32FS60B/32FS60D/32FS60E)		C6626	1-164-625-11	CERAMIC 680PF 10% 500V	
R6432	1-216-057-00	RES,CHIP 2.2K 5% 1/10W		C6627	1-164-625-11	CERAMIC 680PF 10% 500V	
R6433	1-216-073-00	RES,CHIP 10K 5% 1/10W		C6628	1-126-936-11	ELECT 3300MF 20% 16V	
R6437	1-249-422-11	CARBON 2.7K 5% 1/4W		C6629	1-128-548-11	ELECT 4700MF 20% 25V	
R6438	1-249-421-11	CARBON 2.2K 5% 1/4W		C6630	1-110-626-11	ELECT 330MF 20% 160V	
R6439	1-216-683-11	METAL CHIP 22K 0.50% 1/10W		C6631	1-126-955-11	ELECT 4700MF 20% 35V	
R6440	1-216-683-11	METAL CHIP 22K 0.50% 1/10W		C6632	1-126-955-11	ELECT 4700MF 20% 35V	
R6441	1-216-673-11	METAL CHIP 8.2K 0.50% 1/10W		C6633	1-126-935-11	ELECT 470MF 20% 16V	
R6442	1-216-039-00	RES,CHIP 390 5% 1/10W		C6634	1-136-165-00	FILM 0.1MF 5% 50V	
R6455	1-216-295-91	SHORT 0		C6635	1-104-664-11	ELECT 47MF 20% 25V	
R6456	1-216-097-91	RES,CHIP 100K 5% 1/10W		C6636	1-102-129-00	CERAMIC 0.01MF 10% 50V	
R6457	1-216-075-00	RES,CHIP 12K 5% 1/10W		C6637	1-102-129-00	CERAMIC .01MF 10% 50V	
R6458	1-216-089-91	RES,CHIP 47K 5% 1/10W		C6638	1-137-368-11	FILM 0.047MF 5% 50V	
R6459	1-216-057-00	RES,CHIP 2.2K 5% 1/10W		C6639	1-102-228-00	CER MIC 470PF 10% 500V	
R6460	1-249-393-11	CARBON 10 5% 1/4W		C6641	1-126-967-11	ELECT 47MF 20% 50V	
R6461	1-249-411-11	CARBON 330 5% 1/4W		C6642	1 126 964-11	ELECT 10MF 20% 50V	
R6462	1-249-406-11	CARBON 120 5% 1/4W		C6647	1-104-664 1	ELECT 47MF 20% 25V	
R6463	1-216-095-00	RES,CHIP 82K 5% 1/10W		C6649	1-126-965- 1	ELECT 22MF 20% 50V	
R6464	1-216-079-00	RES,CHIP 18K 5% 1/10W		C6651	1 162-599 12	CERAMIC 0.0047MF 250V	
*****				C6652	1-107-679-91	ELECT 10MF 20% 450V	
*****				C6653	1-126-968-11	ELECT 100MF 20% 50V	
*A-1640-342-A	D BOARD, COMPLETE (KV-29FS60) *****			C6654	1-162-117-00	CERAMIC 100PF 10% 500V	
*A-1640-326-A	D BOARD, COMPLETE (KV-32FS60) *****			C6655	1-109-879-11	CERAMIC 22PF 5% 2KV	
4-201-023-01	SPACER, INSULATING			C 656	1-126-967-11	ELECT 47MF 20% 50V	
4-202-373-01	SPRING, IC			C6657	1-126-941-11	ELECT 470MF 20% 25V	
4-382-854-11	SCREW (M3X10), P, SW (+)			C6658	1-104-665-11	ELECT 100MF 20% 25V	
*4-931-401-01	HEAT SINK, V.OUT			C6659	1-104-665-11	ELECT 100MF 20% 25V	
< CAPACITOR >				C6661	1-117-753-11	ELECT (BLOCK) 470MF 20% 450V	
C6600	Δ 1-161-744-00	CERAMIC 0.01 F	400V	C6662	1-136-165-00	FILM 0.1MF 5% 50V	
C6603	1-126-933-11	ELECT 00MF	20% 16V	C6664	1-136-165-00	FILM 0.1MF 5% 50V	
C6604	1-126-767-11	ELE T 1000MF	20% 16V	C6667	1-126-933-11	ELECT 100MF 20% 16V	
C6605	Δ 1-119-888-51	CER MIC 2200PF	20% 250V	C6668	1-126-933-11	ELECT 100MF 20% 16V	
C6606	Δ 1-119-888-51	CERAMIC 2200PF	20% 250V	C6669	1-136-165-00	FILM 0.1MF 5% 50V	
C6607	Δ 1-107-565-11	FILM 0.33MF	20% 300V	C6670	1-136-165-00	FILM 0.1MF 5% 50V	
C6608	Δ 1-162-599-12	CERAMIC 0.0047MF	250V	C6671	1-104-664-11	ELECT 47MF 20% 16V	
C6609	Δ 1-162-599-12	CERAMIC 0.0047MF	250V	C6672	1-104-664-11	ELECT 47MF 20% 16V	
C6610	1-162-599-12	CERAMIC 0.0047MF	250V	C6673	1-104-664-11	ELECT 47MF 20% 16V	
C6611	1-162-599-12	CERAMIC 0.0047MF	250V	C6677	1-136-165-00	FILM 0.1MF 5% 50V	
C6612	1-161-744-00	CERAMIC 0.01MF	400V	C6679	1-130-495-00	FILM 0.1MF 5% 50V	
C6616	1-164-625-11	CERAMIC 680PF	10% 500V	C6680	1-137-370-11	FILM 0.01MF 5% 50V	
C6617	1-164-625-11	CERAMIC 680PF	10% 500V	C6681	1-126-964-11	ELECT 10MF 20% 50V	
C6618	1-136-175-00	FILM 0.68MF	5% 50V	C6682	1-107-680-91	ELECT 22MF 20% 450V	
C6619	1-137-194-91	FILM 0.47MF	5% 50V	(KV-29FS60A/29FS60B/29FS60D/29FS60E/ 29FS60K/29FS60R/29FS60U)			
C6620	1-136-618-11	FILM 0.047MF	5% 1.25KV	C6700	1-102-129-00	CERAMIC 0.01MF 10% 50V	
C6621	1-136-175-00	FILM 0.68MF	5% 50V	C6703	1-128-527-11	ELECT 330MF 20% 25V	
C6622	1-164-625-11	CERAMIC 680PF	10% 500V	C6704	1-126-968-11	ELECT 100MF 20% 50V	
C6623	1-137-194-91	FILM 0.47MF	5% 50V	C6705	1-128-527-11	ELECT 330MF 20% 25V	
C6624	1-126-968-11	ELECT 100MF	20% 50V	C6706	1-106-228-00	MYLAR 0.22MF 10% 100V	

D

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

REF. NO.	PART.NO	DESCRIPTION	REMARK	REF. NO.	PART.NO	DESCRIPTION	REMARK
C6707	1-129-702-00	FILM 0.001MF	10% 400V	C6843	1-136-177-00	FILM 1MF	5% 50V
C6708	1-106-220-00	MYLAR 0.1MF	10% 100V	C6851	1-162-131-11	CERAMIC 220PF	10% 2KV
C6709	1-102-129-00	CERAMIC 0.01MF	10% 50V	C6852	1-162-129-00	CERAMIC 150PF	10% 2KV
C6710	1-130-785-11	MYLAR 0.47MF	10% 100V	C6853	1-137-536-11	FILM 0.0022MF	5% 630V
C6727	1-102-228-00	CERAMIC 470PF	10% 500V	C6855	1-136-205-11	FILM 0.022MF	10% 400V
C6801	1-104-664-11	ELECT 47MF	20% 25V	C6856	1-102-030-00	CERAMIC 330PF	10% 500V
C6802	1-126-960-11	ELECT 1MF	20% 50V	C6857	1-130-785-11	FILM 0.47MF	10% 100V
C6803	1-126-960-11	ELECT 1MF	20% 50V	C6861	1-137-364-11	FILM 0.001MF	5% 50V
C6804	1-102-114-00	CERAMIC 470PF	10% 50V	C6862	1-137-364-11	FILM 0.001MF	5% 50V
C6805	1-102-114-00	CERAMIC 470PF	10% 50V	< CONNECTOR >			
C6808	1-102-030-00	CERAMIC 330PF	10% 500V	CN6100	1-785-802-11	20PIN CONNECTOR	
C6809	1-102-030-00	CERAMIC 330PF	10% 500V	CN6101	1-785-802-11	20PIN CONNECTOR	
C6810	1-107-368-11	FILM 0.047MF	10% 200V	CN6102	1-785-802-11	20PIN CONNECTOR	
C6811	1-107-368-11	FILM 0.047MF	10% 200V	CN6500	1-508-766-00	PIN, CONNECTOR (5MM PITCH) 4P	
C6812	1-162-131-11	CERAMIC 220PF	10% 2KV	CN6600	1-695-299-11	CONNECTOR BOARD TO BOARD 50P	
C6813	1-162-558-11	CERAMIC 100PF	10% 2KV	CN6611	*1-785-2 0-11	PIN, DY CONNECTOR (PC BOARD)	
		(KV-29FS60A/29FS60B/29FS60D/29FS60E/ 29FS60K/29FS60R/29FS60U)		CN6620	Δ 1-508-7 5-00	PIN, CONNECTOR (5MM PITCH) 3P	
	1-162-134-11	CERAMIC 470PF	10% 2KV	CN6655	1- 95-915 11	TAB (CONTACT)	
		(KV-32FS60A/32FS60B/32FS60D/32FS60E)		CN6666	Δ 1- 08-786-00	PIN, CONNECTOR (5MM PITCH) 2P	
C6814	1-117-640-11	FILM 6800PF	3% 1.2KV	CN6677	1- 95-915 1	TAB (CONTACT)	
C6815	1-117-835-11	FILM 6200PF	3% 2KV	N6688	1-695-915-11	TAB (CONTACT)	
C6816	1-137-364-11	FILM 0.001MF	5% 50V	CN6 0	Δ *1 691-291-11	PIN, CONNECTOR (PC BOARD) 5P	
C6817	1-125-893-11	FILM 680PF	3% 2KV	< DIODE >			
C6818	1-125-893-11	FILM 680PF	3% 2KV	D6600	8-719-911-19	DIODE 1SS119-25	
C6819	1-125-893-11	FILM 680PF	3% 2KV	D6601	8-719-510-64	DIODE S2LA20F	
C6820	1-125-893-11	FILM 680PF	3% 2KV	D6602	8-719-109-89	DIODE RD5.6ESB2	
C6824	1-107-846-11	FILM 0.1MF	5% 200V	D6603	8-719-911-19	DIODE 1SS119-25	
C6825	1-107-846-11	FILM 0.1MF	5% 250V	D6604	8-719-510-53	DIODE D4SB60L	
C6826	1-115-518-11	FILM 0.47MF	5% 250V	D6610	8-719-510-64	DIODE S2LA20F	
		(KV-29FS60A/29FS60B/29FS60D/29FS60E/ 29FS60K/29FS60R/29FS60U)		D6613	8-719-911-19	DIODE 1SS119-25	
	1-115-519-11	FILM 0.56MF	5% 250V	D6615	8-719-911-19	DIODE 1SS119-25	
		(KV-32FS60 /32FS60B/3 FS60D/32FS60E)		D6616	8-719-510-12	DIODE D10SC4M	
C6827	1-115-511-11	FILM 0.12MF	5% 250V	D6617	8-719-500-71	DIODE D8LCA0	
		(KV-29FS60A/29FS60B/29FS60D/29FS60E/ 29FS60K/29FS60R/29FS60U)		D6618	8-719-047-31	DIODE RBA-402L	
	1-107-846-11	FILM 0.1MF	5% 250V	D6619	8-719-510-12	DIODE D10SC4M	
		(KV-32FS60A/32FS60B/32FS60D/32FS60E)		D6620	8-719-510-09	DIODE D10SC6M	
C6828	1-127-681-11	CAPACITOR 10000PF	2% 100V	D6621	8-719-991-33	DIODE 1SS133T-77	
C6829	1-127-680-11	CAPACITOR 4700PF	2% 100V	D6622	8-719-991-33	DIODE 1SS133T-77	
C6830	1-107-655-11	ELECT 47MF	20% 250V	D6623	8-719-911-19	DIODE 1SS119-25	
C6831	1-102-228-00	CERAMIC 470PF	10% 500V	D6624	8-719-991-33	DIODE 1SS133T-77	
C6832	1-126-941-11	ELECT 470MF	20% 25V	D6625	8-719-991-33	DIODE 1SS133T-77	
C6833	1-126-941-11	ELECT 470MF	20% 25V	D6627	8-719-982-27	DIODE MTZJ-33C	
C6834	1-102-228-00	CERAMIC 470PF	10% 500V	D6628	8-719-109-97	DIODE RD6.8ESB2	
C6835	1-102-228-00	CERAMIC 470PF	10% 500V	D6629	8-719-991-33	DIODE 1SS133T-77	
C6836	1-123-024-21	ELECT 33MF	160V	D6630	8-719-991-33	DIODE 1SS133T-77	
C6837	1-106-375-12	MYLAR 0.022MF	10% 250V	D6651	8-719-068-00	DIODE ERC04-06SE	
C6840	1-137-370-11	FILM 0.01MF	5% 50V	D6652	8-719-923-78	DIODE MTZJ-T-77-12	
C6841	1-104-664-11	ELECT 47MF	20% 16V	D6653	8-719-510-64	DIODE S2LA20F	
C6842	1-136-207-11	FILM 0.047MF	10% 400V	D6654	8-719-059-23	DIODE P6KE200AG23	

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

D

REF. NO.	PART.NO	DESCRIPTION	REMARK	REF. NO.	PART.NO	DESCRIPTION	REMARK
D6655	8-719-979-64	DIODE UF4005PKG23		L6607	1-412-525-31	INDUCTOR 10UH	
D6656	8-719-510-64	DIODE S2LA20F		L6651	1-414-183-41	INDUCTOR 10UH	
D6658	8-719-068-00	DIODE ERC04-06SE		L6700	1-412-524-11	INDUCTOR 8.2UH	
D6659	8-719-510-64	DIODE S2LA20F		L6801	1-412-519-11	INDUCTOR 3.3UH	
D6676	8-719-991-33	DIODE 1SS133T-77		L6802	1-412-519-11	INDUCTOR 3.3UH	
D6677	8-719-921-40	DIODE MTZJ-4.7C		L6803	1-412-519-11	INDUCTOR 3.3UH	
D6678	8-719-921-40	DIODE MTZJ-4.7C		L6805	1-408-947-00	INDUCTOR 2.2MMH	
D6679	8-719-991-33	DIODE 1SS133T-77		L6806	1-410-397-21	FERRITE 1.1UH	
D6700	8-719-908-03	DIODE GP08D		L6807	1-410-397-21	FERRITE 1.1UH	
D6701	8-719-110-41	DIODE RD15ESB2		L6808	1-406-675-11	INDUCTOR 0UH	
D6803	8-719-908-03	DIODE GP08D		L6851	1-535-303-00	LEAD, JUMPER (5.0MM)	
D6804	1-535-143-11	LEAD, JUMPER (10.0MM)				< FILTE >	
D6805	8-719-302-43	DIODE EL1Z					
D6806	8-719-979-85	DIODE EGP20G		LF6603	1-406-660-41	INDUCTO 0UH	
D6807	8-719-510-73	DIODE S3L20UF4		LF6604	1-406-660-41	I DUCTO 0UH	
D6808	8-719-510-73	DIODE S3L20UF4		LF6801	1 406 985-11	INDUCTOR 0UH	
D6809	8-719-991-33	DIODE 1SS133T-77		LF6851	1-406-674 1	INDUCTOR 0UH	
D6810	8-719-110-41	DIODE RD15ESB2				< IC LINK >	
D6811	8-719-110-41	DIODE RD15ESB2		PS660	Δ 1 801-550-21	PROTECTOR MODULE 2.5A MP250	
D6812	8-719-991-33	DIODE 1SS133T-77		PS6602	Δ 1-801-550-21	PROTECTOR MODULE 2.5A MP250	
D6813	8-719-110-41	DIODE RD15ESB2		PS6603	Δ 1-801-549-21	PROTECTOR MODULE 4.0A MP250	
D6851	8-719-970-87	DIODE ERA38-06		PS66 4	Δ 1-801-550-21	PROTECTOR MODULE 2.5A MP250	
D6852	8-719-970-87	DIODE ERA38-06		P 6605	Δ 1-801-550-21	PROTECTOR MODULE 2.5A MP250	
		< FERRITE BEAD >				< TRANSISTOR >	
FB6602	1-410-396-41	FERRITE 0.45UH		Q6600	8-729-046-47	TRANSISTOR KSC2500-BTA	
FB6603	1-410-396-41	FERRITE 0.45UH		Q6602	8-729-026-41	TRANSISTOR 2SA933AS-QRT	
		< IC >		Q6603	8-729-119-78	TRANSISTOR 2SC2785-HFE	
IC6600	1-810-051-11	POWER MODULE DM 48		Q6605	8-729-046-47	TRANSISTOR KSC2500-BTA	
IC6604	8-729-045-40	TRANSISTOR MX0842A-F		Q6606	8-729-029-56	TRANSISTOR DTA144ESA	
IC6651	8-759-468-89	IC TOP209P		Q6607	8-729-119-78	TRANSISTOR 2SC2785-HFE	
IC6652	8-759-604-39	IC M5F78M12L		Q6608	8-729-029-66	TRANSISTOR DTC114ESA	
IC6653	8-759-544-13	IC KA7 R09TU		Q6651	8-729-026-41	TRANSISTOR 2SA933AS-QRT	
IC6654	8-759-457-44	IC A78R05TU		Q6652	8-729-029-86	TRANSISTOR DTC124ESA	
IC6667	8-759-908-15	IC TL431CLP		Q6667	8-729-026-41	TRANSISTOR 2SA933AS-QRT	
IC6676	8-759-908-15	IC TL431CLP		Q6676	8-729-119-78	TRANSISTOR 2SC2785-HFE	
IC6700	8-759-192-71	IC STV9379		Q6677	8-729-119-78	TRANSISTOR 2SC2785-HFE	
IC6801	8-759-103-93	IC UPC393C		Q6678	8-729-119-78	TRANSISTOR 2SC2785-HFE	
		< COIL >		Q6679	8-729-026-41	TRANSISTOR 2SA933AS-QRT	
L6601	1-408-947-00	INDUCTOR 2.2MMH (KV-29FS60A/29FS60B/29FS60D/29FS60E/ 29FS60K/29FS60R/29FS60U)		Q6680	8-729-029-66	TRANSISTOR DTC114ESA	
	1-535-303-00	LEAD, JUMPER (5.0MM) (KV-32FS60A/32FS60B/32FS60D/32FS60E)		Q6681	8-729-029-66	TRANSISTOR DTC114ESA	
L6602	1-412-529-11	INDUCTOR 22UH		Q6700	8-729-039-68	TRANSISTOR IRF620	
L6603	1-412-529-11	INDUCTOR 22UH		Q6801	8-729-119-80	TRANSISTOR 2SC2688-LK	
L6604	1-412-525-31	INDUCTOR 10UH		Q6802	8-729-119-80	TRANSISTOR 2SC2688-LK	
L6605	1-412-525-31	INDUCTOR 10UH		Q6803	8-729-046-18	TRANSISTOR 2SC5480-01	
L6606	1-412-525-31	INDUCTOR 10UH		Q6804	8-729-046-18	TRANSISTOR 2SC5480-01	
				Q6805	8-729-038-83	TRANSISTOR 2SK2251-01-F19	
				Q6806	8-729-930-91	TRANSISTOR IRF740	
				Q6807	8-729-030-02	TRANSISTOR DTC144ESA	
				Q6809	8-729-119-78	TRANSISTOR 2SC2785-HFE	

D

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

REF. NO.	PART.NO	DESCRIPTION	REMARK	REF. NO.	PART.NO	DESCRIPTION	REMARK
Q6810	8-729-026-41	TRANSISTOR 2SA933AS-QRT		R6666	1-202-933-61	FUSIBLE 0.1 10%	1/2W F
Q6851	8-729-043-95	TRANSISTOR 2SC3840(3)		R6667	1-215-441-00	METAL 6.8K 1%	1/4W
< RESISTOR >				R6668	1-249-429-11	CARBON 10K 5%	1/4W
R6601	Δ 1-202-968-11	CEMENTED	1.2 5% 10W	R6669	1-249-413-11	CARBON 470 5%	1/4W
R6603	1-249-430-11	CARBON	12K 5% 1/4W	R6670	1-249-429-11	CARBON 10K 5%	1/4W
R6604	1-249-421-11	CARBON	2.2K 5% 1/4W	R6676	1-249-417-11	CARBON 1K 5%	1/4W
R6605	1-249-417-11	CARBON	1K 5% 1/4W F	R6677	1-249-417-11	CARBON 1K 5%	1/4W
R6606	Δ 1-202-968-11	CEMENTED	1.2 5% 10W	R6678	1-249-417-11	CARBON 1K 5%	1/4W
R6608	Δ 1-220-797-11	CEMENTED	0.47 5% 10W F	R6679	1-215-479-00	METAL 270K 1%	1/4W
R6611	1-260-125-11	CARBON	150K 5% 1/2W	R6681	1-215-467-00	METAL 82K 1%	1/4W
R6612	1-260-125-11	CARBON	150K 5% 1/2W	R6682	1-215-447-00	METAL 12K 1%	1/4W
R6613	1-216-369-00	METAL OXIDE	1 5% 2W F	R6683	1-215-429-00	METAL 2.2K 5%	1/4W
R6614	1-260-125-11	CARBON	150K 5% 1/2W	R6684	1-247-807-31	CARBON 00 5%	1/4W
R6615	1-260-125-11	CARBON	150K 5% 1/2W	R6685	1-249-417-11	CARBON 1K 5%	1/4W
R6616	1-216-369-00	METAL OXIDE	1 5% 2W F	R6686	1-215-449-00	METAL 15K 1%	1/4W
R6619	1-249-425-11	CARBON	4.7K 5% 1/4W	R6687	1-249-431 11	CARBON 15K 5%	1/4W
R6620	1-249-443-11	CARBON	0.47 5% 1/4W F	R6688	1-249-4 7-11	CARBON 1K 5%	1/4W
R6624	1-249-425-11	CARBON	4.7K 5% 1/4W	R6700	1-215-4 1-00	METAL 6.8K 1%	1/4W
R6625	1-249-429-11	CARBON	10K 5% 1/4W	R6701	1- 15-437 00	METAL 4.7K 1%	1/4W
R6626	1-247-807-31	CARBON	100 5% 1/4W	R6702	1- 15-441-00	METAL 6.8K 1%	1/4W
R6627	1-249-429-11	CARBON	10K 5% 1/4W	R6703	1-215-437-00	METAL 4.7K 1%	1/4W
R6628	1-260-129-11	CARBON	330K 5% 1/2W	6704	1-249-383-11	CARBON 1.5 5%	1/4W F
R6629	1-260-129-11	CARBON	330K 5% 1/2W	R67	1 247-791-91	CARBON 22 5%	1/4W
R6630	1-249-417-11	CARBON	1K 5% 1/4W	R6707	1-215-888-00	METAL OXIDE 220 5%	2W F
R6631	1-249-425-11	CARBON	4.7K 5% 1/4W	R6708	1-214-798-21	METAL 1.8 1%	1/2W
R6632	1-207-905-00	WIREWOUND	0.27 10% 2W F	R6709	1-214-798-21	METAL 1.8 1%	1/2W
R6633	1-249-429-11	CARBON	10K 5% 1/4W	R6710	1-247-843-11	CARBON 3.3K 5%	1/4W
R6635	1-249-443-11	CARBON	0.47 5% 1/4W	R6711	1-249-418-11	CARBON 1.2K 5%	1/4W
		(KV-29FS60A/29FS60B/29F 0D/2 FS60E/ 29FS60K/29FS60R/29FS6 U)		R6801	1-215-440-00	METAL 6.2K 1%	1/4W
1-535-303-00	LEAD, JUMPER (5.0MM)			R6802	1-214-915-00	METAL 120K 1%	1/2W
		(KV-32FS60A/32 S60B/ 2FS60D/32FS60E)		R6803	1-249-421-11	CARBON 2.2K 5%	1/4W
R6637	1-249-421-11	CARBON	.2K 5% 1/4W	R6804	1-247-807-31	CARBON 100 5%	1/4W
R6638	1-247-895-91	CARBON	4 0K 5% 1/4W	R6805	1-247-807-31	CARBON 100 5%	1/4W
R6639	1-249-416-11	CARBON	820 5% 1/4W	R6806	1-249-411-11	CARBON 680 5%	1/4W
R6640	1-249-417-11	CARBON	1K 5% 1/4W	R6807	1-249-411-11	CARBON 330 5%	1/4W
R6641	1-260-127-11	CARBON	220K 5% 1/2W	R6808	1-260-340-11	CARBON 10K 5%	1/2W
R6642	1-249-389-11	CARBON	4.7 5% 1/4W F	R6809	1-260-340-11	CARBON 10K 5%	1/2W
R6643	1-249-417-11	CARBON	1K 5% 1/4W F	R6810	1-215-920-11	METAL OXIDE 3.3K 5%	3W
R6644	1-249-429-11	CARBON	10K 5% 1/4W			(KV-29FS60A/29FS60B/29FS60D/29FS60E/ 29FS60K/29FS60R/29FS60U)	
R6645	1-260-131-11	CARBON	470K 5% 1/2W	1-216-460-11	METAL OXIDE 3.9K 5%	3W F	
R6646	1-249-429-11	CARBON	10K 5% 1/4W			(KV-32FS60A/32FS60B/32FS60D/32FS60E)	
R6647	1-249-410-11	CARBON	270 5% 1/4W	R6811	1-216-461-00	METAL OXIDE 5.6K 5%	2W F
R6648	1-247-863-91	CARBON	22K 5% 1/4W	R6812	1-215-895-11	METAL OXIDE 3.3K 5%	2W F
R6649	1-215-926-00	METAL OXIDE	33K 5% 3W F	R6813	1-215-920-11	METAL OXIDE 3.3K 5%	3W F
R6651	1-247-791-91	CARBON	22 5% 1/4W			(KV-29FS60A/29FS60B/29FS60D/29FS60E/ 29FS60K/29FS60R/29FS60U)	
R6652	1-249-389-11	CARBON	4.7 5% 1/4W F	1-215-895-11	METAL OXIDE 3.3K 5%	2W	
R6653	1-249-421-11	CARBON	2.2K 5% 1/4W			(KV-32FS60A/32FS60B/32FS60D/32FS60E)	
R6655	1-249-429-11	CARBON	10K 5% 1/4W	R6814	1-215-880-00	METAL OXIDE 10 5%	2W F
R6656	Δ 1-218-265-11	METAL	8.2M 5% 1W	R6815	1-215-880-00	METAL OXIDE 10 5%	2W F
R6657	1-215-425-00	METAL	1.5K 1% 1/4W	R6816	1-216-361-00	METAL OXIDE 0.22 5%	2W F

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

D **VM**

REF. NO.	PART. NO	DESCRIPTION	REMARK	REF. NO.	PART. NO	DESCRIPTION	REMARK
R6817	1-216-361-00	METAL OXIDE 0.22 5%	2W F	R6896	1-249-443-11	CARBON 0.47 5%	1/4W F
R6818	1-247-807-31	CARBON 100 5%	1/4W	R6897	1-215-485-00	METAL 470K 1%	1/4W
R6819	1-247-807-31	CARBON 100 5%	1/4W	R6898	1-215-493-00	METAL 1M 1%	1/4W
R6831	1-260-124-11	CARBON 120K 5%	1/2W	R6899	1-215-493-00	METAL 1M 1%	1/4W
R6832	1-216-434-11	METAL OXIDE 1.8K 5%	1W F				
						< RELAY >	
R6833	1-202-972-61	FUSIBLE 1 5%	1/4W F	R6896	1-249-443-11	CARBON 0.47 5%	1/4W F
R6834	1-249-377-11	CARBON 0.47 5%	1/4W F	R6897	1-215-485-00	METAL 470K 1%	1/4W
R6835	1-249-377-11	CARBON 0.47 5%	1/4W F	R6898	1-215-493-00	METAL 1M 1%	1/4W
R6836	1-249-431-11	CARBON 15K 5%	1/4W	R6899	1-215-493-00	METAL 1M 1%	1/4W
R6837	1-215-919-11	METAL OXIDE 2.2K 5%	3W F				
		(KV-29FS60A/29FS60B/29FS60D/29FS60E/ 29FS60K/29FS60R/29FS60U)				< TRANSFORMER >	
	1-215-894-11	METAL OXIDE 2.2K 5%	2W	T6600	Δ 1-431-616-11	TRANSFORMER, CONVERTER	
		(KV-32FS60A/32FS60B/32FS60D/32FS60E)		T6601	Δ 1-433-516-11	TRANSFORMER, CONVERTER	
R6838	1-214-905-11	METAL 47K 1%	1/2W	T6651	1-431-732-11	TRANSFORMER, CONVERTER (SRT)	
R6839	1-215-919-11	METAL OXIDE 2.2K 5%	3W F	T6801	1-433-489-11	TRANSFORMER, FERRITE (HDT)	
		(KV-29FS60A/29FS60B/29FS60D/29FS60E/ 29FS60K/29FS60R/29FS60U)		T6802	1-433-489-11	TRANSFORMER, FERRITE (HDT)	
	1-215-894-11	METAL OXIDE 2.2K 5%	2W				
		(KV-32FS60A/32FS60B/32FS60D/32FS60E)		T6804	Δ 1-453-272-11	TRANSFORMER FLYBACK ASSEMBLY NX-4512/U2B4	
R6840	1-247-843-11	CARBON 3.3K 5%	1/4W	T6805	1-429-741-1	TRANSFORMER, DRIVE	
R6842	1-260-123-11	CARBON 100K 5%	1/2W	T6852	1-426-896-1	TRANSFORMER, FERRITE (DFT)	
R6843	1-249-429-11	CARBON 10K 5%	1/4W			< THERMISTOR >	
R6844	1-249-441-11	CARBON 100K 5%	1/4W	TH660	Δ 1-809-827-11	THERMISTOR, POSITIVE	
R6845	1-247-863-91	CARBON 22K 5%	1/4W	TH6700	1-800-193-00	THERMISTOR	
R6851	1-260-123-11	CARBON 100K 5%	1/2			*	*****
R6852	1-260-123-11	CARBON 100K 5%	1 2W			*A-1644-094-A	VM BOARD, COMPLETE (KV-29FS60) *****
R6853	1-260-123-11	CARBON 100K 5%	1/2W			*A-1644-095-A	VM BOARD, COMPLETE (KV-32FS60) *****
R6854	1-249-417-11	CARBON 1K 5%	1/4W			4-382-854-11	SCREW (M3X10), P, SW (+)
R6856	1-216-485-11	METAL OXIDE 5.6K 5%	3W				
		(KV-29FS60A/29FS60B/29FS60D/29FS60E/ 29FS60K/29FS60R/29FS60U)				< CAPACITOR >	
	1-215-922-11	METAL OXIDE 6.8K 5%	3W F	C5400	1-107-883-11	ELECT 330MF	20% 16V
		(KV-32FS60A/32FS60B/32FS60D/32FS60E)		C5401	1-126-935-11	ELECT 470MF	20% 16V
R6857	1-216-485-11	METAL OXIDE 5.6K 5%	3W	C5402	1-137-370-11	FILM 0.01MF	5% 50V
		(KV-29FS60A/29FS60B/29FS60D/29FS60E/ 29FS60K/29FS60R/29FS60U)		C5403	1-126-935-11	ELECT 470MF	20% 6.3V
	1-215-922-11	METAL OXIDE 6.8K 5%	3W F	C5405	1-126-933-11	ELECT 100MF	20% 16V
		(KV-32FS60A/32FS60B/32FS60D/32FS60E)					
R6858	1-215-922-11	METAL OXIDE 6.8K 5%	3W F	C5406	1-126-935-11	ELECT 470MF	20% 6.3V
R6859	1-215-922-11	METAL OXIDE 6.8K 5%	3W F	C5407	1-104-989-91	FILM 0.0022MF	5% 200V
R6880	1-215-436-00	METAL 4.3K 1%	1/4W	C5408	1-104-989-91	FILM 0.0022MF	5% 200V
R6885	1-215-493-00	METAL 1M 1%	1/4W	C5409	1-107-649-11	ELECT 2.2MF	20% 250V
R6886	1-215-477-00	METAL 220K 1%	1/4W	C5410	1-137-364-11	FILM 0.001MF	5% 50V
R6887	1-215-461-00	METAL 47K 1%	1/4W	C5411	1-137-364-11	FILM 0.001MF	5% 50V
R6888	1-249-441-11	CARBON 100K 5%	1/4W	C5412	1-126-933-11	ELECT 100MF	20% 16V
R6889	1-249-421-11	CARBON 2.2K 5%	1/4W	C5413	1-126-933-11	ELECT 100MF	20% 16V
R6890	1-247-887-00	CARBON 220K 5%	1/4W	C5414	1-107-638-11	ELECT 33MF	20% 160V
R6891	1-247-895-91	CARBON 470K 5%	1/4W	C5415	1-107-363-91	FILM 0.0068MF	10% 200V
R6892	1-249-437-11	CARBON 47K 5%	1/4W	C5416	1-102-106-00	CERAMIC 100PF	10% 50V
R6893	1-249-429-11	CARBON 10K 5%	1/4W	C5419	1-101-880-00	CERAMIC 47PF	5% 50V
R6894	1-535-303-00	LEAD, JUMPER (5.0MM)		C5430	1-162-117-00	CERAMIC 100PF	10% 500V
R6895	1-249-443-11	CARBON 0.47 5%	1/4W F				



REF. NO.	PART. NO	DESCRIPTION	REMARK
< CONNECTOR >			
CN5402	*1-568-878-51	PIN, CONNECTOR 3P	
CN5444	*1-770-723-11	CONNECTOR, BOARD TO BOARD 8P	
CN5555	1-695-915-11	TAB (CONTACT)	
CN5602	*1-568-881-51	PIN, CONNECTOR 6P	
< DIODE >			
D5400	8-719-991-33	DIODE 1SS133T-77	
D5401	8-719-510-02	DIODE D1NS4	
D5402	8-719-991-33	DIODE 1SS133T-77	
D5403	8-719-991-33	DIODE 1SS133T-77	
D5404	8-719-991-33	DIODE 1SS133T-77	
D5405	8-719-924-11	DIODE MTZJ-T-77-22	
D5406	8-719-924-11	DIODE MTZJ-T-77-22	
< FERRITE BEAD >			
FB5400	1-410-397-21	FERRITE 1.1UH	
FB5401	1-410-396-41	FERRITE 0.45UH	
< COIL >			
L5400	1-410-784-41	INDUCTOR 0.18UH	
< TRANSISTOR >			
Q5400	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q5401	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q5402	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q5403	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q5404	8-729-026-41	TRANSISTOR 2SA933AS-QRT	
Q5405	8-729-026-41	TRANSISTOR 2SA933AS-QRT	
Q5406	8-729-017-05	TRANSISTOR 2SA1837	
Q5407	8-729-017-06	TRANSISTOR 2SC4793	
< RESISTOR >			
R5400	1-249-401-11	CARBON 47 5% 1/4W	
R5401	1-249-421-11	CARBON 2.2K 5% 1/4W	
R5402	1-249-413-11	CARBON 470 5% 1/4W	
R5403	1-249-393-11	CARBON 10 5% 1/4W F	
R5404	1-249-417-11	CARBON 1K 5% 1/4W	
R5405	1-249-425-11	CARBON 4.7K 5% 1/4W	
R5406	1-249-425-11	CARBON 4.7K 5% 1/4W	
R5407	1-249-399-11	CARBON 33 5% 1/4W	
R5408	1-247-807-31	CARBON 100 5% 1/4W	
R5409	1-247-815-91	CARBON 220 5% 1/4W	
R5410	1-249-401-11	CARBON 47 5% 1/4W	
R5411	1-249-401-11	CARBON 47 5% 1/4W	
R5412	1-249-429-11	CARBON 10K 5% 1/4W	
R5413	1-249-414-11	CARBON 560 5% 1/4W F	
R5414	1-249-432-11	CARBON 18K 5% 1/4W	
R5415	1-260-311-11	CARBON 39 5% 1/2W	
R5416	1-249-383-11	CARBON 1.5 5% 1/4W F	

REF. NO.	PART. NO	DESCRIPTION	REMARK
R5417	1-249-432-11	CARBON 18K 5% 1/4W	
R5418	1-249-414-11	CARBON 560 5% 1/4W	
R5419	1-249-421-11	CARBON 2.2K 5% 1/4W	
R5420	1-249-421-11	CARBON 2.2K 5% 1/4W	
R5421	1-249-383-11	CARBON 1.5 5% 1/4W F	
R5422	1-249-400-11	CARBON 39 5% 1/4W F	
R5423	1-215-914-11	METAL OXIDE 330 5% 3W F	
R5425	1-249-419-11	CARBON 1.5K 5% 1/4W	

*A-1646-170-A H1 BOARD, COMPLETE (KV-29FS60)			
***** *			
*A-1646-174-A H1 BOARD, COMPLETE (KV- 2FS60)			
***** ****			
< CAPACITOR >			
C7900	1-101-8 0-00	CERAMIC 100PF 5% 500V	
C7901	1-101-8 0-00	CERA IC 100PF 5% 500V	
C7925	1- 37-372 11	FILM 0.022MF 5% 50V	
C7926	1- 37-372-11	FILM 0.022MF 5% 50V	
< CONNECTOR >			
CN7 3*	1 564-514-11	PLUG, CONNECTOR 11P	
< JACK >			
J7900	1-779-947-21	TERMINAL BLOCK, S	
J7925	1-764-606-11	JACK	
< COIL >			
L7925	1-414-183-41	INDUCTOR 10UH	
L7926	1-414-183-41	INDUCTOR 10UH	
< RESISTOR >			
R7900	1-535-303-00	LEAD, JUMPER (5.0MM)	
R7901	1-249-417-11	CARBON 1K 5% 1/4W	
R7902	1-247-895-91	CARBON 470K 5% 1/4W	
R7903	1-247-895-91	CARBON 470K 5% 1/4W	
R7904	1-535-303-00	LEAD, JUMPER (5.0MM)	
R7905	1-249-417-11	CARBON 1K 5% 1/4W	
R7906	1-535-303-00	LEAD, JUMPER (5.0MM)	

*A-1648-018-A U BOARD, COMPLETE (KV-29FS60)			

*A-1648-017-A U BOARD, COMPLETE (KV-32FS60)			

< CAPACITOR >			
C7952	1-101-005-00	CERAMIC 0.022MF 50V	
C7953	1-101-005-00	CERAMIC 0.022MF 50V	
(KV-32FS60A/32FS60B/32FS60D/32FS60E)			



REF. NO.	PART.NO	DESCRIPTION	REMARK	REF. NO.	PART.NO	DESCRIPTION	REMARK
C7961	1-101-005-00	CERAMIC 0.022MF	50V	C8134	1-104-664-11	ELECT 47MF	20% 16V
C7962	1-101-005-00	CERAMIC 0.022MF	50V	C8135	1-164-505-11	CERAMIC CHIP 2.2MF	16V
< CONNECTOR >				C8136	1-163-251-11	CERAMIC CHIP 100PF	5% 50V
CN7101	1-573-299-21	CONNECTOR, BOARD TO BOARD 10P		C8137	1-164-505-11	CERAMIC CHIP 2.2MF	16V
CN7977*	1-564-519-11	PLUG, CONNECTOR 4P		C8138	1-107-823-11	CERAMIC CHIP 0.47MF	10% 16V
CN7988*	1-564-519-11	PLUG, CONNECTOR 4P		C8139	1-107-823-11	CERAMIC CHIP 0.47MF	10% 16V
CN7990*	1-564-518-11	PLUG, CONNECTOR 3P		C8140	1-107-823-11	CERAMIC CHIP 0.47MF	10% 16V
CN7999*	1-564-519-11	PLUG, CONNECTOR 4P		C8141	1-107-823-11	CERAMIC CHIP 0.47MF	10% 16V
< JACK >				C8142	1-107-823-11	CERAMIC CHIP 0.47MF	10% 16V
J7951	1-694-470-11	TERMINAL BOARD		C8143	1-107-823-11	CERAMIC CHIP 0.47MF	10% 16V
J7952	1-537-339-11	TERMINAL BOARD		C8144	1-107-823-11	CERAMIC CHIP 0.47MF	10% 16V
< COIL >				C8145	1-107-823-11	CERAMIC CHIP .47MF	10% 16V
L7950	1-402-711-11	INDUCTOR 0UH		C8146	1-163-251-11	CERAMIC CHIP 1 PF	5% 50V
L7952	1-402-711-11	INDUCTOR 0UH		C8150	1-163-251-11	CER MIC CHIP 100PF	5% 50V
L7954	1-402-711-11	INDUCTOR 0UH		C8151	1-163-017-00	CERAMIC CHIP 0.0047MF	10% 50V
L7956	1-402-711-11	INDUCTOR 0UH		C8152	1 164 346-11	CERAMIC CHIP 1MF	16V
*****				C8153	1-107-682 1	CERAMIC CHIP 1MF	10% 16V
*A-1651-102-A	J BOARD, COMPLETE (KV-29FS60A/29FS60D/29FS6 E/ ***** 29FS60K/29FS60R/29FS60U)			C8154	1-163-021- 1	CERAMIC CHIP 0.01MF	10% 50V
*A-1651-106-A	J BOARD, COMPLETE (KV-29FS60B) *****			C8155	1 107-682 11	CERAMIC CHIP 1MF	10% 16V
*A-1651-101-A	J BOARD, COMPLETE (KV-32FS60A/32FS60D/32F 60E) *****			C8156	1-164-505-11	CERAMIC CHIP 2.2MF	16V
*A-1651-107-A	J BOARD, COMPLETE (KV-32FS60B) *****			C8157	1-163-021-91	CERAMIC CHIP 0.01MF	10% 50V
< CAPACITOR >				C8159	1-104-664-11	ELECT 47MF	20% 16V
C8100	1-107-823-11	CERAMIC CHIP 0.47MF	10% 16V	C8161	1-164-505-11	CERAMIC CHIP 2.2MF	16V
C8101	1-107-823-11	CERAMIC CHIP 0.4 MF	10% 16V	C 200	1-104-664-11	ELECT 47MF	20% 16V
C8102	1-104-760-11	CERAMIC CHIP 0.04 MF	10% 50V	C8201	1-163-241-11	CERAMIC CHIP 39PF	5% 50V
C8103	1-104-664-11	ELECT 7MF	20% 16V	C8202	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C8104	1-126-934-11	ELE T 220MF	20% 16V	C8203	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C8105	1-126-933-11	ELECT 100MF	20% 16V	C8204	1-164-506-11	CERAMIC CHIP 4.7MF	16V
C8106	1-126-933-11	ELECT 100MF	20% 16V	C8205	1-165-319-11	CERAMIC CHIP 0.1MF	50V
C8107	1-126-933-11	ELECT 100MF	20% 16V	C8208	1-164-506-11	CERAMIC CHIP 4.7MF	16V
C8108	1-126-933-11	ELECT 100MF	20% 16V	C8209	1-163-251-11	CERAMIC CHIP 100PF	5% 50V
C8109	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	C8210	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C8110	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	C8211	1-163-243-11	CERAMIC CHIP 47PF	5% 50V
C8111	1-126-933-11	ELECT 100MF	20% 16V	C8212	1-163-243-11	CERAMIC CHIP 47PF	5% 50V
C8125	1-107-823-11	CERAMIC CHIP 0.47MF	10% 16V	C8213	1-163-087-00	CERAMIC CHIP 4PF	0.25PF 50V
C8126	1-107-823-11	CERAMIC CHIP 0.47MF	10% 16V	C8214	1-163-087-00	CERAMIC CHIP 4PF	0.25PF 50V
C8127	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	C8215	1-163-243-11	CERAMIC CHIP 47PF	5% 50V
C8128	1-104-664-11	ELECT 47MF	20% 16V	C8216	1-126-933-11	ELECT 100MF	20% 16V
C8129	1-107-823-11	CERAMIC CHIP 0.47MF	10% 16V	C8217	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C8130	1-107-823-11	CERAMIC CHIP 0.47MF	10% 16V	C8218	1-126-964-11	ELECT 10MF	20% 50V
C8131	1-107-823-11	CERAMIC CHIP 0.47MF	10% 16V	C8219	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C8132	1-107-823-11	CERAMIC CHIP 0.47MF	10% 16V	C8220	1-126-964-11	ELECT 10MF	20% 50V
C8133	1-104-664-11	ELECT 47MF	20% 16V	C8221	1-104-664-11	ELECT 47MF	20% 16V
				C8222	1-104-664-11	ELECT 47MF	20% 16V
				C8223	1-104-664-11	ELECT 47MF	20% 16V
				C8224	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
				C8225	1-104-664-11	ELECT 47MF	20% 16V
				C8228	1-163-009-11	CERAMIC CHIP 0.001MF	10% 50V
				C8229	1-163-009-11	CERAMIC CHIP 0.001MF	10% 50V
				C8230	1-163-009-11	CERAMIC CHIP 0.001MF	10% 50V
				C8231	1-163-009-11	CERAMIC CHIP 0.001MF	10% 50V

J

REF. NO.	PART.NO	DESCRIPTION	REMARK	REF. NO.	PART.NO	DESCRIPTION	REMARK
C8232	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	C8329	1-115-340-11	CERAMIC CHIP 0.22MF	10% 25V
C8233	1-104-664-11	ELECT 47MF	20% 16V	C8330	1-163-231-11	CERAMIC CHIP 15PF	5% 50V
C8234	1-107-823-11	CERAMIC CHIP 0.47MF	10% 16V	C8331	1-126-960-11	ELECT 1MF	20% 50V
C8235	1-107-823-11	CERAMIC CHIP 0.47MF	10% 16V	C8332	1-163-017-00	CERAMIC CHIP 0.0047MF	10% 50V
C8236	1-126-933-11	ELECT 100MF	20% 16V	C8343	1-163-251-11	CERAMIC CHIP 100PF	5% 50V (KV-29FS60B/32FS60B)
C8237	1-163-021-91	CERAMIC CHIP 0.01MF	10% 50V	C8344	1-163-173-00	CERAMIC CHIP 47PF	5% 50V (KV-29FS60B/32FS60B)
C8238	1-164-505-11	CERAMIC CHIP 2.2MF	10% 16V	C8345	1-126-933-11	ELECT 100MF	20% 16V (KV-29FS60B/32FS60B)
C8239	1-107-823-11	CERAMIC CHIP 0.47MF	10% 16V	C8401	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C8240	1-107-823-11	CERAMIC CHIP 0.47MF	10% 16V	C8402	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C8241	1-126-964-11	ELECT 10MF	20% 50V	C8403	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C8242	1-104-664-11	ELECT 47MF	20% 16V	C8404	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C8243	1-110-501-11	CERAMIC CHIP 0.33MF	10% 16V (KV-29FS60B/32FS60B)	C8405	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C8250	1-164-506-11	CERAMIC CHIP 4.7MF	10% 16V	C8406	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C8251	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	C8407	1-164-04-11	CERAMIC CHIP 0.1MF	10% 25V
C8252	1-164-506-11	CERAMIC CHIP 4.7MF	10% 16V	C8408	1-164-12-11	CERAMIC CHIP 0.0033MF	10% 50V
C8253	1-163-263-11	CERAMIC CHIP 330PF	5% 50V	C8409	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C8254	1-163-021-91	CERAMIC CHIP 0.01MF	10% 50V	C8410	1-115-340-11	CERAMIC CHIP 0.22MF	10% 25V
C8255	1-107-823-11	CERAMIC CHIP 0.47MF	10% 16V	C8411	1-115-340-11	CERAMIC CHIP 0.22MF	10% 25V
C8256	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	8412	1-115-340-11	CERAMIC CHIP 0.22MF	10% 25V
C8258	1-126-933-11	ELECT 100MF	20% 16V	C84	1-115-340-11	CERAMIC CHIP 0.22MF	10% 25V
C8260	1-126-933-11	ELECT 100MF	20% 16V	C8414	1-163-231-11	CERAMIC CHIP 15PF	5% 50V
C8263	1-126-933-11	ELECT 100MF	20% 16V	C8415	1-163-231-11	CERAMIC CHIP 15PF	5% 50V
C8300	1-115-340-11	CERAMIC CHIP 0.22MF	10% 25V	C8416	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C8301	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	C8417	1-163-017-00	CERAMIC CHIP 0.0047MF	10% 50V
C8302	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25	C8418	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C8303	1-115-340-11	CERAMIC CHIP 0.22MF	10% 25V	C8419	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C8304	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	C8420	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C8305	1-164-004-11	CERAMIC CHIP 0.1MF	10% 5V	C8421	1-126-933-11	ELECT 100MF	20% 16V
C8306	1-164-004-11	CERAMIC CHIP 0.1MF	10 25V	C8422	1-126-960-11	ELECT 1MF	20% 50V
C8307	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	C8423	1-126-933-11	ELECT 100MF	20% 16V
C8308	1-126-933-11	ELECT 100MF	20% 16V	C8424	1-115-340-11	CERAMIC CHIP 0.22MF	10% 25V
C8310	1-164-004-11	CERAMIC CHIP 0.1MF	0% 25V	C8425	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C8311	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	C8426	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C8312	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	C8427	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C8313	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	C8450	1-104-664-11	ELECT 47MF	20% 16V
C8314	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	C8451	1-104-664-11	ELECT 47MF	20% 16V
C8315	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	C8455	1-115-340-11	CERAMIC CHIP 0.22MF	10% 25V (KV-29FS60A/29FS60B/29FS60D/29FS60E/ 29FS60K/29FS60R/29FS60U/ 32FS60A/32FS60D/32FS60E)
C8316	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	C8456	1-115-340-11	CERAMIC CHIP 0.22MF	10% 25V
C8317	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	C8500	1-115-340-11	CERAMIC CHIP 0.22MF	10% 25V
C8318	1-126-933-11	ELECT 100MF	20% 16V	C8501	1-163-021-91	CERAMIC CHIP 0.01MF	10% 50V
C8319	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	C8502	1-163-021-91	CERAMIC CHIP 0.01MF	10% 50V
C8320	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	C8503	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C8321	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	C8504	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C8322	1-126-933-11	ELECT 100MF	20% 16V	C8505	1-126-933-11	ELECT 100MF	20% 16V
C8323	1-164-182-11	CERAMIC CHIP 0.0033MF	10% 50V	C8506	1-163-037-11	CERAMIC CHIP 0.022MF	10% 50V
C8324	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	C8507	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C8325	1-115-340-11	CERAMIC CHIP 0.22MF	10% 25V				
C8326	1-163-231-11	CERAMIC CHIP 15PF	5% 50V				
C8327	1-115-340-11	CERAMIC CHIP 0.22MF	10% 25V				
C8328	1-115-340-11	CERAMIC CHIP 0.22MF	10% 25V				

REF. NO.	PART. NO	DESCRIPTION	REMARK	REF. NO.	PART. NO	DESCRIPTION	REMARK
C8508	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	C8978	1-163-009-11	CERAMIC CHIP 0.001MF	10% 50V
C8509	1-126-933-11	ELECT 100MF	20% 16V			< FILTER >	
C8510	1-104-664-11	ELECT 47MF	20% 16V				
C8511	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	CF8150	1-760-106-11	FILTER, CERAMIC	
C8512	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	CF8151	1-567-100-00	FILTER, CERAMIC	
				CF8152	1-760-450-21	FILTER, CERAMIC	
C8513	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	CF8200	1-409-327-00	TRAP, CERAMIC (6.5MHZ)	
C8514	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V			< CONNECTOR >	
C8515	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V				
C8516	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	CN1402	1-573-296-11	CONNECTOR, BOARD TO BOARD 10P	(KV-29FS60B/32FS60B)
C8517	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V				
				CN8101	1-695-302-11	CONNECT R, B ARD TO BOARD 50P	
C8518	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	CN8102*	1-564-518-11	PLUG, CONNECTO 3P	
C8519	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	CN8900	1-561-534-41	SOC ET, PIN 21P	
C8520	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V				
C8521	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	CN8901	1-695-293-11	SOCKET 21P	
C8601	1-115-340-11	CERAMIC CHIP 0.22MF	10% 25V	CN8902	1 95 293-11	SOCKET 21P	
						< DIODE >	
C8602	1-115-340-11	CERAMIC CHIP 0.22MF	10% 25V	D8125	8-719-158-49	DIODE RD12SB2	
C8605	1-115-340-11	CERAMIC CHIP 0.22MF	10% 25V	D8126	8 719-158-49	DIODE RD12SB2	
C8606	1-115-340-11	CERAMIC CHIP 0.22MF	10% 25V	D8127	8-719-158-49	DIODE RD12SB2	
C8607	1-104-664-11	ELECT 47MF	20% 16V	D8128	8-719-158-49	DIODE RD12SB2	
C8608	1-104-664-11	ELECT 47MF	20% 16V	D812	8-719-158-49	DIODE RD12SB2	
				D8130	8-719-158-49	DIODE RD12SB2	
C8609	1-115-340-11	CERAMIC CHIP 0.22MF	10% 25V	D8131	8-719-158-49	DIODE RD12SB2	
C8610	1-115-340-11	CERAMIC CHIP 0.22MF	10% 25V	D8132	8-719-158-49	DIODE RD12SB2	
C8611	1-115-340-11	CERAMIC CHIP 0.22MF	10% 25V	D8150	8-719-421-57	DIODE MA73-TX	
C8612	1-115-340-11	CERAMIC CHIP 0.22MF	10% 25V	D8151	8-719-421-57	DIODE MA73-TX	
C8613	1-104-664-11	ELECT 47MF	20% 16V				
				D8152	8-719-421-57	DIODE MA73-TX	
C8614	1-104-664-11	ELECT 47MF	2 % 1 V	D8200	8-719-158-49	DIODE RD12SB2	
C8700	1-126-964-11	ELECT 10MF	20% 50V	D8201	8-719-158-49	DIODE RD12SB2	
C8701	1-104-664-11	ELECT 47MF	20% 16V	D8202	8-719-158-49	DIODE RD12SB2	
C8702	1-163-133-00	CERAMIC CHIP 470PF	5% 50V	D8203	8-719-158-49	DIODE RD12SB2	
C8703	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V				
				D8349	8-719-914-42	DIODE DA204K-T-146	(KV-29FS60B/32FS60B)
C8704	1-163-021-91	CERAMIC CHIP 0.01MF	10% 50V	D8432	8-719-914-42	DOIDE DA204K-T-146	(KV-29FS60B/32FS60B)
C8705	1-163-021-91	CERAMIC CHIP 0 01MF	10% 50V	D8450	8-719-158-49	DIODE RD12SB2	
C8706	1-163-235-11	CERAMIC CHIP 22PF	5% 50V	D8451	8-719-158-49	DIODE RD12SB2	
C8707	1-163-235-11	CERAMIC CHIP 2PF	5% 50V	D8900	8-719-056-85	DIODE UDZ-TE-17-8.2B	
C8708	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V				
				D8901	8-719-056-85	DIODE UDZ-TE-17-8.2B	
C8709	1-126-964-11	ELECT 10MF	20% 50V	D8902	8-719-056-85	DIODE UDZ-TE-17-8.2B	
C8710	1-126-933-11	ELECT 100MF	20% 16V	D8903	8-719-056-85	DIODE UDZ-TE-17-8.2B	
C8900	1-163-251-11	CERAMIC CHIP 100PF	5% 50V	D8904	8-719-056-85	DIODE UDZ-TE-17-8.2B	
C8901	1-163-017-00	CERAMIC CHIP 0.0047MF	10% 50V	D8905	8-719-056-85	DIODE UDZ-TE-17-8.2B	
C8902	1-163-017-00	CERAMIC CHIP 0.0047MF	10% 50V				
				D8906	8-719-056-85	DIODE UDZ-TE-17-8.2B	
C8903	1-163-251-11	CERAMIC CHIP 100PF	5% 50V	D8907	8-719-056-85	DIODE UDZ-TE-17-8.2B	
C8904	1-163-251-11	CERAMIC CHIP 100PF	5% 50V	D8908	8-719-056-85	DIODE UDZ-TE-17-8.2B	
C8905	1-163-251-11	CERAMIC CHIP 100PF	5% 50V	D8909	8-719-056-85	DIODE UDZ-TE-17-8.2B	
C8906	1-163-017-00	CERAMIC CHIP 0.0047MF	10% 50V	D8910	8-719-056-85	DIODE UDZ-TE-17-8.2B	
C8907	1-163-017-00	CERAMIC CHIP 0.0047MF	10% 50V				
				D8911	8-719-056-85	DIODE UDZ-TE-17-8.2B	
C8908	1-163-251-11	CERAMIC CHIP 100PF	5% 50V	D8912	8-719-158-49	DIODE RD12SB2	
C8909	1-163-017-00	CERAMIC CHIP 0.0047MF	10% 50V	D8913	8-719-158-49	DIODE RD12SB2	
C8910	1-163-251-11	CERAMIC CHIP 100PF	5% 50V				
C8911	1-163-017-00	CERAMIC CHIP 0.0047MF	10% 50V				
C8916	1-126-933-11	ELECT 100MF	20% 16V				
C8977	1-163-009-11	CERAMIC CHIP 0.001MF	10% 50V				

J

REF. NO.	PART.NO	DESCRIPTION	REMARK	REF. NO.	PART.NO	DESCRIPTION	REMARK
D8914	8-719-158-49	DIODE RD12SB2		L8343	1-410-421-11	INDUCTOR 15UH	(KV-29FS60B/32FS60B)
D8915	8-719-158-49	DIODE RD12SB2					
D8922	8-719-056-84	DIODE UDZ-TE-17-7.5B					
D8923	8-719-978-04	DIODE DTZ-TT11-3.3B					
		< FILTER >					
FL8200	1-236-071-11	ENCAPSULATED COMPONENT		Q8100	8-729-620-06	TRANSISTOR 2SC3052-EF	
FL8201	1-233-764-21	FILTER		Q8101	8-729-620-06	TRANSISTOR 2SC3052-EF	
FL8203	1-236-071-11	ENCAPSULATED COMPONENT		Q8150	8-729-620-06	TRANSISTOR 2SC3052-EF	
FL8250	1-236-071-11	ENCAPSULATED COMPONENT		Q8151	1-801-806-11	TRANSISTOR DTC144EKA-T146	
FL8251	1-236-071-11	ENCAPSULATED COMPONENT		Q8152	1-801-806-11	TRANSISTOR DTC144EKA-T146	
FL8252	1-236-071-11	ENCAPSULATED COMPONENT		Q8153	1-801-806-11	TRANSISTOR DTC144EKA-T146	
FL8300	1-236-071-11	ENCAPSULATED COMPONENT		Q8154	1-801-806-11	TRANSISTOR DTC144EKA-T146	
FL8301	1-236-071-11	ENCAPSULATED COMPONENT		Q8155	8-729-038-96	TRANSISTOR IMZ1A-T10	
FL8400	1-236-071-11	ENCAPSULATED COMPONENT		Q8156	8-729-620-06	TRANSIST R 2SC 052 EF	
FL8401	1-236-071-11	ENCAPSULATED COMPONENT		Q8157	8-729-620-06	TRANSISTOR SC305 EF	
FL8500	1-236-071-11	ENCAPSULATED COMPONENT		Q8200	8-729-620-06	TRANSISTO 2SC3052-EF	
FL8501	1-236-071-11	ENCAPSULATED COMPONENT		Q8201	8-729-620 06	RANSISTOR 2SC3052-EF	
FL8502	1-233-765-21	FILTER		Q8202	8-729-6 0-06	TRANSISTOR 2SC3052-EF	
FL8503	1-233-768-21	FILTER (SMD)		Q8300	8-729-2 6-22	TRAN ISTOPR 2SA1162-G	
FL8504	1-233-766-21	FILTER		Q8301	8- 29-038 96	TRANSISTOR IMZ1A-T109	
FL8700	1-236-071-11	ENCAPSULATED COMPONENT		Q8302	8- 29-620 06	TRANSISTOR 2SC3052-EF	
FL8701	1-236-071-11	ENCAPSULATED COMPONENT		Q8303	8- 29-620-06	TRANSISTOR 2SC3052-EF	
		< IC >		8304	8-729-620-06	TRANSISTOR 2SC3052-EF	
IC8100	8-759-352-94	IC TDA7309D013TR		Q83	8 729-620-06	TRANSISTOR 2SC3052-EF	
IC8101	8-759-085-34	IC TDA2822D		Q8306	8-729-620-06	TRANSISTOR 2SC3052-EF	
IC8125	8-759-351-01	IC TEA6422DT		Q83 7	8-729-620-06	TRANSISTOR 2SC3052-EF	
IC8150	8-759-478-90	IC U2861B-MFP-G3		Q8308	8-729-038-96	TRANSISTOR IMZ1A-T109	
IC8151	8-752-072-94	IC CXA1875AM-T4		Q8309	8-729-038-96	TRANSISTOR IMZ1A-T109	
IC8200	8-759-544-10	IC MSP3410D-QA-B4		Q8310	8-729-038-96	TRANSISTOR IMZ1A-T109	
IC8201	8-759-701-36	IC NJM3403AM		Q8311	8-729-620-06	TRANSISTOR 2SC2412K-T-146-R	(KV-29FS60B/32FS60B)
IC8202	8-759-908-15	IC TL431CLP		Q8343	8-729-620-06	TRANSISTOR 2SC2412K-T-146-R	(KV-29FS60B/32FS60B)
IC8250	8-759-567-38	IC TC9337F-034		Q8400	8-729-620-06	TRANSISTOR 2SC3052-EF	
IC8300	8-759-546-01	IC TDA9320 N1-518		Q8401	8-729-216-22	TRANSISTOR 2SA1162-G	
IC8400	8-759-546-01	IC TDA9320H N -518		Q8403	8-729-620-06	TRANSISTOR 2SC3052-EF	
IC8451	8-759-385-76	IC MC14052BDR2		Q8404	8-729-620-06	TRANSISTOR 2SC3052-EF	
IC8500	8-752-390-37	IC CXD2064Q-T6		Q8405	8-729-038-96	TRANSISTOR IMZ1A-T109	
IC8601	8-759-544-24	IC LF90CDT		Q8406	8-729-038-96	TRANSISTOR IMZ1A-T109	
IC8602	8-759-544-23	IC LF80CDT		Q8407	8-729-038-96	TRANSISTOR IMZ1A-T109	
IC8603	8-759-544-22	IC LF50CDT		Q8425	8-729-620-06	TRANSISTOR 2SC3052-EF	
IC8604	8-759-544-22	IC LF50CDT		Q8450	8-729-216-22	TRANSISTOR 2SA1162-G	
IC8700	8-752-390-35	IC CXD2057M-T6		Q8453	8-729-216-22	TRANSISTOR 2SA1162-G	
		< JACK >		Q8456	8-729-620-06	TRANSISTOR 2SC3052-EF	
J8901	1-774-747-11	JACK BLOCK, PIN		Q8459	8-729-216-22	TRANSISTOR 2SA1162-G	
		< COIL >		Q8461	8-729-216-22	TRANSISTOR 2SA1162-G	
L8150	1-414-757-11	INDUCTOR 100UH		Q8500	8-729-038-96	TRANSISTOR IMZ1A-T109	
L8200	1-412-006-31	INDUCTOR CHIP 10UH		Q8501	8-729-620-06	TRANSISTOR 2SC3052-EF	
L8201	1-412-064-11	INDUCTOR CHIP 100UH		Q8503	8-729-216-22	TRANSISTOR 2SA1162-G	
				Q8504	8-729-216-22	TRANSISTOR 2SA1162-G	
				Q8700	8-729-620-06	TRANSISTOR 2SC3052-EF	
				Q8900	8-729-620-06	TRANSISTOR 2SC3052-EF	

REF. NO.	PART. NO	DESCRIPTION	REMARK	REF. NO.	PART. NO	DESCRIPTION	REMARK
Q8901	8-729-620-06	TRANSISTOR 2SC3052-EF		R8170	1-216-065-91	RES,CHIP 4.7K 5%	1/10W
Q8903	8-729-620-06	TRANSISTOR 2SC3052-EF		R8171	1-216-061-00	RES,CHIP 3.3K 5%	1/10W
< RESISTOR >				R8172	1-216-061-00	RES,CHIP 3.3K 5%	1/10W
R8100	1-216-025-91	RES,CHIP 100 5%	1/10W	R8173	1-216-065-91	RES,CHIP 4.7K 5%	1/10W
R8101	1-216-025-91	RES,CHIP 100 5%	1/10W	R8174	1-216-065-91	RES,CHIP 4.7K 5%	1/10W
R8102	1-216-295-91	SHORT 0		R8175	1-216-065-91	RES,CHIP 4.7K 5%	1/10W
R8103	1-216-089-91	RES,CHIP 47K 5%	1/10W	R8200	1-216-049-91	RES,CHIP 1K 5%	1/10W
R8104	1-216-089-91	RES,CHIP 47K 5%	1/10W	R8201	1-216-295-91	SHORT 0	
R8105	1-216-057-00	RES,CHIP 2.2K 5%	1/10W	R8202	1-216-021-00	RES,CHIP 68 5%	1/10W
R8106	1-216-081-00	RES,CHIP 22K 5%	1/10W	R8203	1-216-069-00	RES,CHIP 6.8K 5%	1/10W
R8107	1-216-081-00	RES,CHIP 22K 5%	1/10W	R8204	1-216-049-91	RES,CHIP 1K 5%	1/10W
R8108	1-216-057-00	RES,CHIP 2.2K 5%	1/10W	R8205	1-216-069-00	RES,CHIP 6.8K 5%	1/10W
R8109	1-249-389-11	CARBON 4.7 5%	1/4W F	R8206	1-216-049-91	RES,CHIP K 5%	1/10W
R8110	1-249-389-11	CARBON 4.7 5%	1/4W F	R8208	1-216-037-00	RES,CHIP 330 5%	1/10W
R8111	1-216-033-00	RES,CHIP 220 5%	1/10W	R8209	1-216-659-11	METAL CHIP 2.2K 0.50%	1/10W
R8112	1-216-033-00	RES,CHIP 220 5%	1/10W	R8210	1 216 25-91	RES,CHIP 100 5%	1/10W
R8113	1-216-095-00	RES,CHIP 82K 5%	1/10W	R8212	1-216-295 91	SHORT 0	
R8114	1-216-081-00	RES,CHIP 22K 5%	1/10W	R8213	1-216-295- 1	SHORT 0	
R8115	1-216-033-00	RES,CHIP 150 5%	1/10W	R8214	1 216-295 91	SHORT 0	
R8116	1-216-033-00	RES,CHIP 150 5%	1/10W	R8215	1-216-295-91	SHORT 0	
R8117	1-216-033-00	RES,CHIP 150 5%	1/10W	R8216	1-216-025-91	RES,CHIP 100 5%	1/10W
R8118	1-216-033-00	RES,CHIP 150 5%	1/10W	R8217	1-216-025-91	RES,CHIP 100 5%	1/10W
R8125	1-216-295-91	SHORT 0		R821	1-216-049-91	RES,CHIP 1K 5%	1/10W
R8126	1-216-057-00	RES,CHIP 2.2K 5%	1/10W	R 219	1-216-025-91	RES,CHIP 100 5%	1/10W
R8127	1-216-113-00	RES,CHIP 470K 5%	1/10W	R8220	1-216-025-91	RES,CHIP 100 5%	1/10W
R8128	1-216-049-91	RES,CHIP 1K 5%	1/1	R8221	1-216-025-91	RES,CHIP 100 5%	1/10W
R8129	1-216-025-91	RES,CHIP 100 5%	1/10W	R8222	1-216-295-91	SHORT 0	
R8130	1-216-025-91	RES,CHIP 100 5%	1/10W	R8223	1-216-089-91	RES,CHIP 47K 5%	1/10W
R8131	1-216-049-91	RES,CHIP 1K 5%	1/10W	R8224	1-216-089-91	RES,CHIP 47K 5%	1/10W
R8132	1-216-057-00	RES,CHIP 2 2K 5%	1/10W	R8225	1-216-089-91	RES,CHIP 47K 5%	1/10W
R8133	1-216-113-00	RES,CHIP 47 K 5%	1/10W	R8226	1-216-089-91	RES,CHIP 47K 5%	1/10W
R8150	1-216-057-00	RES,CHIP 2.2 5%	1/10W	R8227	1-216-089-91	RES,CHIP 47K 5%	1/10W
R8151	1-216-069-00	RES,CH P 6.8K 5%	1/10W	R8228	1-216-089-91	RES,CHIP 47K 5%	1/10W
R8152	1-216-035-00	RES,CHIP 270 5%	1/10W	R8229	1-216-295-91	SHORT 0	
R8153	1-216-081-00	RES, HIP 22K 5%	1/10W	R8230	1-216-081-00	RES,CHIP 22K 5%	1/10W
R8154	1-216-067-00	RES,CHIP 5.6K 5%	1/10W	R8231	1-216-089-91	RES,CHIP 47K 5%	1/10W
R8155	1-216-043-91	RES,CHIP 560 5%	1/10W	R8232	1-216-089-91	RES,CHIP 47K 5%	1/10W
R8156	1-216-081-00	RES,CHIP 22K 5%	1/10W	R8233	1-216-089-91	RES,CHIP 47K 5%	1/10W
R8157	1-216-067-00	RES,CHIP 5.6K 5%	1/10W	R8234	1-216-089-91	RES,CHIP 47K 5%	1/10W
R8158	1-216-043-91	RES,CHIP 560 5%	1/10W	R8235	1-216-089-91	RES,CHIP 47K 5%	1/10W
R8159	1-216-081-00	RES,CHIP 22K 5%	1/10W	R8236	1-216-089-91	RES,CHIP 47K 5%	1/10W
R8160	1-216-067-00	RES,CHIP 5.6K 5%	1/10W	R8237	1-216-043-91	RES,CHIP 560 5%	1/10W
R8161	1-216-043-91	RES,CHIP 560 5%	1/10W	R8238	1-216-063-91	RES,CHIP 3.9K 5%	1/10W
R8162	1-216-049-91	RES,CHIP 1K 5%	1/10W	R8239	1-216-069-00	RES,CHIP 6.8K 5%	1/10W
R8163	1-216-295-91	SHORT 0		R8240	1-216-651-11	METAL CHIP 1K 0.50%	1/10W
R8164	1-216-295-91	SHORT 0		R8243	1-216-021-00	RES,CHIP 68 5%	1/10W
R8165	1-216-295-91	SHORT 0		R8250	1-216-295-91	SHORT 0	
R8167	1-216-025-91	RES,CHIP 100 5%	1/10W	R8251	1-216-295-91	SHORT 0	
R8168	1-216-025-91	RES,CHIP 100 5%	1/10W	R8252	1-216-295-91	SHORT 0	
R8169	1-216-049-91	RES,CHIP 1K 5%	1/10W	R8253	1-216-067-00	RES,CHIP 5.6K 5%	1/10W
				R8254	1-216-097-91	RES,CHIP 100K 5%	1/10W

J

REF. NO.	PART.NO	DESCRIPTION	REMARK	REF. NO.	PART.NO	DESCRIPTION	REMARK
R8255	1-216-025-91	RES,CHIP	100 5% 1/10W	R8346	1-216-295-91	SHORT	0
R8256	1-216-295-91	SHORT	0				(KV-29FS60A/29FS60D/29FS60E/ 29FS60K/29FS60R/29FS60U/ 32FS60A/32FS60D/32FS60E)
R8257	1-216-025-91	RES,CHIP	100 5% 1/10W	R8347	1-216-025-91	RES,CHIP	100 5% 1/10W
R8258	1-216-025-91	RES,CHIP	100 5% 1/10W				(KV-29FS60B/32FS60B)
R8259	1-216-081-00	RES,CHIP	22K 5% 1/10W	R8348	1-216-295-91	SHORT	0
R8300	1-216-041-00	RES,CHIP	470 5% 1/10W				(KV-29FS60B/32FS60B)
R8302	1-216-017-91	RES,CHIP	47 5% 1/10W	R8349	1-216-121-91	RES,CHIP	1M 5% 1/10W
R8303	1-216-041-00	RES,CHIP	470 5% 1/10W				(KV-29FS60B/32FS60B)
R8304	1-216-041-00	RES,CHIP	470 5% 1/10W	R8350	1-216-073-00	RES,CHIP	10K 5% 1/10W
R8305	1-216-049-91	RES,CHIP	1K 5% 1/10W				(KV-29FS60B/32FS60B)
R8306	1-216-295-91	SHORT	0	R8351	1-216-073-00	RES,CHIP	1 K % 1/10W
R8307	1-216-049-91	RES,CHIP	1K 5% 1/10W	R8352	1-216-089-91	RES,CHIP	7K 5% 1/10W
R8308	1-216-057-00	RES,CHIP	2.2K 5% 1/10W				(KV-29FS60B/32FS60B)
R8309	1-216-049-91	RES,CHIP	1K 5% 1/10W	R8353	1-216-081-00	RES,CHI	2 K 5% 1/10W
R8310	1-216-057-00	RES,CHIP	2.2K 5% 1/10W				(KV-29FS60B/32FS60B)
R8311	1-216-085-00	RES,CHIP	33K 5% 1/10W	R8354	1-216-0 7-00	RES,CHIP	5.6K 5% 1/10W
R8312	1-216-077-00	RES,CHIP	15K 5% 1/10W	R8355	1-216-0 7-00	RES, HIP	2.2K 5% 1/10W
R8313	1-216-041-00	RES,CHIP	470 5% 1/10W	R8356	1- 16-057 00	RES,CHIP	2.2K 5% 1/10W
R8314	1-216-043-91	RES,CHIP	560 5% 1/10W	R8400	1- 16-041-00	RES,CHIP	470 5% 1/10W
R8316	1-216-295-91	SHORT	0	R8402	1- 16-295 1	SHORT	0
R8317	1-216-025-91	RES,CHIP	100 5% 1/10W	8403	1-216-041-00	RES,CHIP	470 5% 1/10W
R8318	1-216-025-91	RES,CHIP	100 5% 1/10W	R84	1 216-295-91	SHORT	0
R8319	1-216-295-91	SHORT	0	R8405	1-216-025-91	RES,CHIP	100 5% 1/10W
R8320	1-216-295-91	SHORT	0	R8406	1-216-025-91	RES,CHIP	100 5% 1/10W
R8321	1-216-049-91	RES,CHIP	1K 5% 1/10W	R84 7	1-216-295-91	SHORT	0
R8322	1-216-049-91	RES,CHIP	1K 5% 1/10W	R8408	1-216-295-91	SHORT	0
R8323	1-216-097-91	RES,CHIP	100K 5% 1/10W	R8409	1-216-057-00	RES,CHIP	2.2K 5% 1/10W
R8325	1-216-041-00	RES,CHIP	470 5% 1/10W	R8410	1-216-049-91	RES,CHIP	1K 5% 1/10W
R8326	1-216-041-00	RES,CHIP	470 5% 1/ 0W	R8411	1-216-097-91	RES,CHIP	100K 5% 1/10W
R8327	1-216-041-00	RES,CHIP	470 5% 1/1 W	R8412	1-216-041-00	RES,CHIP	470 5% 1/10W
R8328	1-216-041-00	RES,CHIP	470 5% 1/10W	R8413	1-216-041-00	RES,CHIP	470 5% 1/10W
R8329	1-216-041-00	RES,CHIP	470 5% 1/10W	R8414	1-216-041-00	RES,CHIP	470 5% 1/10W
R8330	1-216-041-00	RES,CHIP	470 5% 1/10W	R8416	1-216-041-00	RES,CHIP	470 5% 1/10W
R8331	1-216-041-00	RES,CHIP	4 0 5% 1/10W	R8417	1-216-041-00	RES,CHIP	470 5% 1/10W
R8332	1-216-041-00	RES,CHIP	470 5% 1/10W	R8418	1-216-041-00	RES,CHIP	470 5% 1/10W
R8333	1-216-041-00	RES,CHIP	470 5% 1/10W	R8419	1-216-041-00	RES,CHIP	470 5% 1/10W
R8334	1-216-017-91	RES,CHIP	47 5% 1/10W	R8420	1-216-041-00	RES,CHIP	470 5% 1/10W
R8335	1-216-017-91	RES,CHIP	47 5% 1/10W	R8421	1-216-049-91	RES,CHIP	1K 5% 1/10W
R8337	1-216-077-00	RES,CHIP	15K 5% 1/10W	R8422	1-216-017-91	RES,CHIP	47 5% 1/10W
R8338	1-216-017-91	RES,CHIP	47 5% 1/10W	R8423	1-216-017-91	RES,CHIP	47 5% 1/10W
R8339	1-216-017-91	RES,CHIP	47 5% 1/10W	R8424	1-216-025-91	RES,CHIP	100 5% 1/10W
R8340	1-216-049-91	RES,CHIP	1K 5% 1/10W	R8425	1-216-077-00	RES,CHIP	15K 5% 1/10W
R8343	1-216-045-00	RES,CHIP	680 5% 1/10W	R8426	1-216-017-91	RES,CHIP	47 5% 1/10W
			(KV-29FS60B/32FS60B)	R8427	1-216-017-91	RES,CHIP	47 5% 1/10W
R8344	1-216-033-00	RES,CHIP	220 5% 1/10W	R8428	1-216-017-91	RES,CHIP	47 5% 1/10W
			(KV-29FS60B/32FS60B)	R8429	1-216-041-00	RES,CHIP	470 5% 1/10W
R8345	1-216-033-00	RES,CHIP	220 5% 1/10W	R8430	1-216-041-00	RES,CHIP	470 5% 1/10W
			(KV-29FS60B/32FS60B)	R8431	1-216-017-91	RES,CHIP	47 5% 1/10W
				R8432	1-216-121-91	RES,CHIP	1M 5% 1/10W
							(KV-29FS60B/32FS60B)

REF. NO.	PART.NO	DESCRIPTION	REMARK	REF. NO.	PART.NO	DESCRIPTION	REMARK
R8433	1-216-073-00	RES,CHIP	10K 5% 1/10W	R8705	1-216-295-91	SHORT	0
R8434	1-216-073-00	RES,CHIP	10K 5% 1/10W	R8706	1-216-049-91	RES,CHIP	1K 5% 1/10W
R8450	1-216-089-91	RES,CHIP	47K 5% 1/10W	R8707	1-216-089-91	RES,CHIP	47K 5% 1/10W
R8451	1-216-073-00	RES,CHIP	10K 5% 1/10W	R8708	1-216-089-91	RES,CHIP	47K 5% 1/10W
R8453	1-216-089-91	RES,CHIP	47K 5% 1/10W	R8900	1-216-039-00	RES,CHIP	390 5% 1/10W
R8454	1-216-073-00	RES,CHIP	10K 5% 1/10W	R8901	1-216-049-91	RES,CHIP	1K 5% 1/10W
R8455	1-216-057-00	RES,CHIP	2.2K 5% 1/10W	R8902	1-216-039-00	RES,CHIP	390 5% 1/10W
R8460	1-216-057-00	RES,CHIP	2.2K 5% 1/10W	R8903	1-216-089-91	RES,CHIP	47K 5% 1/10W
R8462	1-216-073-00	RES,CHIP	10K 5% 1/10W	R8904	1-216-089-91	RES,CHIP	47K 5% 1/10W
R8467	1-216-089-91	RES,CHIP	47K 5% 1/10W	R8905	1-216-113-00	RES,CHIP	470K 5% 1/10W
R8468	1-216-073-00	RES,CHIP	10K 5% 1/10W	R8906	1-216-039-00	RES,CHIP	390 5% 1/10W
R8469	1-216-033-00	RES,CHIP	220 5% 1/10W	R8907	1-216-057-00	RES,CHI	2.2K 5% 1/10W
R8470	1-216-022-00	RES,CHIP	75 5% 1/10W	R8908	1-216-039-00	RES,CHIP	90 5% 1/10W
R8472	1-216-089-91	RES,CHIP	47K 5% 1/10W	R8909	1-216-049-91	RES,CHIP	1K 5% 1/10W
R8473	1-216-073-00	RES,CHIP	10K 5% 1/10W	R8911	1-216-063-91	RES,CHIP	3.9K 5% 1/10W
R8474	1-216-033-00	RES,CHIP	220 5% 1/10W	R8913	1-216-022-00	RES,CHIP	75 5% 1/10W
R8475	1-216-022-00	RES,CHIP	75 5% 1/10W	R8914	1-216-071 00	RES,CHIP	8.2K 5% 1/10W
R8500	1-216-017-91	RES,CHIP	47 5% 1/10W	R8915	1-216-022- 0	RES,CHIP	75 5% 1/10W
R8501	1-216-075-00	RES,CHIP	12K 5% 1/10W	R8916	1 216-033 00	RES,CHIP	220 5% 1/10W
R8502	1-216-041-00	RES,CHIP	470 5% 1/10W	R8917	1-216-033-00	RES,CHIP	220 5% 1/10W
R8503	1-216-069-00	RES,CHIP	6.8K 5% 1/10W	R8918	1 16-113-00	RES,CHIP	470K 5% 1/10W
R8504	1-216-041-00	RES,CHIP	470 5% 1/10W	R8919	1-216-057-00	RES,CHIP	2.2K 5% 1/10W
R8505	1-216-047-91	RES,CHIP	820 5% 1/10W	R892	1-216-022-00	RES,CHIP	75 5% 1/10W
R8506	1-216-091-00	RES,CHIP	56K 5% 1/10W	R 923	1-216-022-00	RES,CHIP	75 5% 1/10W
R8507	1-216-295-91	SHORT	0	R8924	1-216-022-00	RES,CHIP	75 5% 1/10W
R8508	1-216-043-91	RES,CHIP	560 5% 1/10W	R8925	1-216-022-00	RES,CHIP	75 5% 1/10W
R8509	1-216-045-00	RES,CHIP	680 5% 1/1	R8926	1-216-033-00	RES,CHIP	220 5% 1/10W
R8510	1-216-067-00	RES,CHIP	5.6K 5% 1/10W	R8927	1-216-033-00	RES,CHIP	220 5% 1/10W
R8511	1-216-049-91	RES,CHIP	1K 5% 1/10W	R8928	1-216-033-00	RES,CHIP	220 5% 1/10W
R8513	1-216-295-91	SHORT	0	R8929	1-216-039-00	RES,CHIP	390 5% 1/10W
R8514	1-216-017-91	RES,CHIP	47 5% 1/10W	R8930	1-216-049-91	RES,CHIP	1K 5% 1/10W
R8517	1-216-295-91	SHORT	0	R8931	1-216-039-00	RES,CHIP	390 5% 1/10W
R8519	1-216-037-00	RES,CHIP	330 5% 1/10W	R8932	1-216-049-91	RES,CHIP	1K 5% 1/10W
R8520	1-216-041-00	RES,CH P	470 5% 1/10W	R8933	1-216-089-91	RES,CHIP	47K 5% 1/10W
R8521	1-216-061-00	RE ,CHI	3.3K 5% 1/10W	R8934	1-216-089-91	RES,CHIP	47K 5% 1/10W
R8522	1-216-041-00	RES, HIP	470 5% 1/10W	R8935	1-216-113-00	RES,CHIP	470K 5% 1/10W
R8523	1-216-033-00	RES,CHIP	220 5% 1/10W	R8936	1-216-113-00	RES,CHIP	470K 5% 1/10W
R8525	1-216-295-91	SHORT	0	R8937	1-216-039-00	RES,CHIP	390 5% 1/10W
R8526	1-216-061-00	RES,CHIP	3.3K 5% 1/10W	R8938	1-216-057-00	RES,CHIP	2.2K 5% 1/10W
R8527	1-216-047-91	RES,CHIP	820 5% 1/10W	R8939	1-216-039-00	RES,CHIP	390 5% 1/10W
R8528	1-216-047-91	RES,CHIP	820 5% 1/10W	R8940	1-216-057-00	RES,CHIP	2.2K 5% 1/10W
R8529	1-216-055-00	RES,CHIP	1.8K 5% 1/10W	R8941	1-216-063-91	RES,CHIP	3.9K 5% 1/10W
R8530	1-216-051-00	RES,CHIP	1.2K 5% 1/10W	R8942	1-216-009-00	RES,CHIP	22 5% 1/10W
R8531	1-216-053-00	RES,CHIP	1.5K 5% 1/10W	R8943	1-216-022-00	RES,CHIP	75 5% 1/10W
R8532	1-216-049-91	RES,CHIP	1K 5% 1/10W	R8944	1-216-071-00	RES,CHIP	8.2K 5% 1/10W
R8700	1-216-049-91	RES,CHIP	1K 5% 1/10W	R8945	1-216-022-00	RES,CHIP	75 5% 1/10W
R8701	1-216-073-00	RES,CHIP	10K 5% 1/10W	R8946	1-216-033-00	RES,CHIP	220 5% 1/10W
R8702	1-216-025-91	RES,CHIP	100 5% 1/10W	R8947	1-216-039-00	RES,CHIP	390 5% 1/10W
R8703	1-216-025-91	RES,CHIP	100 5% 1/10W	R8948	1-216-049-91	RES,CHIP	1K 5% 1/10W
R8704	1-216-025-91	RES,CHIP	100 5% 1/10W	R8949	1-216-022-00	RES,CHIP	75 5% 1/10W
				R8950	1-216-089-91	RES,CHIP	47K 5% 1/10W

J

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

REF. NO.	PART.NO	DESCRIPTION	REMARK
R8951	1-216-033-00	RES,CHIP	220 5% 1/10W
R8952	1-216-113-00	RES,CHIP	470K 5% 1/10W
R8953	1-216-039-00	RES,CHIP	390 5% 1/10W
R8954	1-216-057-00	RES,CHIP	2.2K 5% 1/10W
R8955	1-216-039-00	RES,CHIP	390 5% 1/10W
R8956	1-216-049-91	RES,CHIP	1K 5% 1/10W
R8957	1-216-049-91	RES,CHIP	1K 5% 1/10W
R8958	1-216-089-91	RES,CHIP	47K 5% 1/10W
R8959	1-216-022-00	RES,CHIP	75 5% 1/10W
R8960	1-216-033-00	RES,CHIP	220 5% 1/10W
R8961	1-216-022-00	RES,CHIP	75 5% 1/10W
R8963	1-216-113-00	RES,CHIP	470K 5% 1/10W
R8964	1-216-039-00	RES,CHIP	390 5% 1/10W
R8965	1-216-057-00	RES,CHIP	2.2K 5% 1/10W
R8968	1-216-022-00	RES,CHIP	75 5% 1/10W
R8969	1-216-033-00	RES,CHIP	220 5% 1/10W
R8977	1-216-037-00	RES,CHIP	330 5% 1/10W
R8978	1-216-037-00	RES,CHIP	330 5% 1/10W
R8979	1-216-045-00	RES,CHIP	680 5% 1/10W
R8980	1-216-045-00	RES,CHIP	680 5% 1/10W
R8981	1-216-085-00	RES,CHIP	33K 5% 1/10W
R8982	1-216-057-00	RES,CHIP	2.2K 5% 1/10W
R8983	1-216-077-00	RES,CHIP	15K 5% 1/10W
R8990	1-216-057-00	RES,CHIP	2.2K 5% 1/10W
R8991	1-216-097-91	RES,CHIP	100K 5% 1/10W
R8992	1-216-057-00	RES,CHIP	2.2K 5% 1/10W
R8993	1-216-057-00	RES,CHIP	2.2K 5% 1/10W
R8994	1-216-073-00	RES,CHIP	10K 5% 1/10W
R8995	1-216-089-91	RES,CHIP	47K 5% 1/10W
< CRYSTAL >			
X8200	1-781-148-21	VIBRATOR, CRYSTAL	
X8300	1-567-504-11	OSCILLATOR, CRYSTAL	
X8301	1-567-505-11	OSCILLATOR, CRYSTAL	
X8400	1-567-504-11	OSCILLATOR CRYSTAL	
X8401	1-567-505-11	OSCILL TOR, CRYSTAL	
X8700	1-767-342-21	VIBRATOR, CRYSTAL	

REF. NO.	PART.NO	DESCRIPTION	REMARK
MISCELLANEOUS *****			
Δ	1-416-654-11	COIL DEMAGNETIC (KV-29FS60)	
Δ	1-416-769-11	COIL DEMAGNETIC (KV-32FS60)	
	1-425-032-00	MAGNET, DISK: 10MM	
	1-452-094-00	MAGNET, ROTATABLE DISK; 15MM	
Δ	1-453-272-11	TRANSFORMER ASSY, FLYBACK (NX-4512/U2B4)	
	1-529-153-11	SPEAKER (4.8X20CM)	
	1-529-144-11	SPEAKER (13CM)	
	1-452-896-11	COIL, NA ROTATION (RT200)	
Δ	1-571-433-21	SWITCH, PUSH (AC POWER)	
Δ	1-574-062-61	CORD POWER (WITH CON ECTOR)	
		(KV-2 FS60A/29FS60B/29FS60D/ 29FS 0E/29FS60K/29FS60R/ 32FS60A/32FS60B/32FS60D/ 32FS60E)	
Δ	1-590- 62-21	CORD POWER (WITH UK PLUG) (KV-29FS60U)	
	1-693- 38-11	TUNER/VIF (AEP)	
		(KV-29FS60A/29FS60D/29FS60E/ 29FS60K/29FS60R/ 32FS60A/32FS60D/32FS60E)	
	1-693-340-11	TUNER/VIF (FR) (KV-29FS60B/32FS60B)	
	1 693-339-11	TUNER/VIF (UK) (KV-29FS60U)	
Δ	8-735-053-05	PICTURE TUBE (M68LNH060X) (KV-29FS60)	
Δ	8-735-054-05	PICTURE TUBE (W76LLZ060X) (SD-302) (KV-32FS60)	
Δ	8-451-504-11	DEFLECTION YOKE (KV-29FS60)	
Δ	1-451-480-11	DEFLECTION YOKE (KV-32FS60)	
Δ	8-453-011-11	NECK ASSY, NA299-M	
Δ	1-251-317-31	CAP ASSY, HIGH VOLTAGE	
	*1-204-549-01	BRACKET, MAIN	
	1-790-082-11	CABLE, RF	
	1-771-599-11	SWITCH ARRAY	

REF. NO.	PART.NO	DESCRIPTION	REMARK	REF. NO.	PART.NO	DESCRIPTION	REMARK
		ACCESSORIES AND PACKAGING MATERIALS (KV-29FS60)					

	1-765-654-11	CABLE, SPEAKER					
	4-204-589-41	MANUAL, INSTRUCTION (KV-29FS60A)					
		(ITALIAN)					
	4-204-589-51	MANUAL, INSTRUCTION (KV-29FS60B)					
		(FRENCH/GERMAN/ITALIAN/DUTCH)					
	4-204-589-11	MANUAL, INSTRUCTION (KV-29FS60D)					
		(GREEK/ENGLISH/DUTCH/TURKISH)					
	4-204-589-71	MANUAL, INSTRUCTION (KV-29FS60E)					
		(SPANISH)					
	4-204-589-81	MANUAL, INSTRUCTION (KV-29FS60E)					
		(PORTUGUESE/FINNISH/DANISH/NORWEGIAN/SWEDISH)					
	4-204-589-91	MANUAL, INSTRUCTION (KV-29FS60K/29FS60R)					
		(RUSSIAN/BULGARIAN/ENGLISH/POLISH/HUNGARIAN)					
	4-204-589-61	MANUAL, INSTRUCTION (KV-29FS60U)					
		(ENGLISH)					
	*4-204-476-01	BAG PROTECTION					
	*4-204-475-01	INDIVIDUAL CARTON					
	*4-204-553-01	CUSHION (UPPER) (ASSY)					
	*4-204-556-01	CUSHION (LOWER) (ASSY)					

		ACCESSORIES AND PACKAGING MATERIALS (KV-32FS60)					

	1-765-654-11	CABLE, SPEAKER					
	4-204-562-41	MANUAL, INSTRUCTION (KV-32FS60A)					
		(ITALIAN)					
	4-204-562-51	MANUAL, INSTRUCTION (KV-32FS60B)					
		(FRENCH/GERMAN/ITALIAN/DUTCH)					
	4-204-562-11	MANUAL, INSTRUCTION (KV-32FS60D)					
		(ENGLISH/GERMAN)					
	4-204-562-71	MANUAL, INSTRUCTION (KV-32FS60E)					
		(SPANISH/PORTUGUESE/FINNISH/DANISH/NORWEGIAN/SWEDISH)					
	*4-060-976-01	BAG PROTECTION					
	*4-204-475-01	INDIVIDUAL CARTON					
	*4-204-380-01	CUSHION (UPPER) (ASSY)					
	*4-204-381-01	CUSHION (LOWER) (ASSY)					

		REMOTE COMMANDER					

	1-418-047-11	REMOTE COMMANDER (RM-891)					