# Service Manual

## 74 CD57/01B/02B/05B 74 CD67/01B/02B/05B/01G/02G /11B/12B/15B/12G CD-67/67SE UBL, FB, FN Compact disc player





#### **TABLE OF CONTENTS**

SEC	PETION	PAGE
1.	TECHNICAL SPECIFICATIONS ······	1
2.	SERVICE MODE	2
3.	MICROPROCESSOR AND IC DATA ·····	3
4.	BLOCK DIAGRAM ·····	6
5.	SCHEMATIC DIAGRAMS AND PARTS LOCATIONS (PATTERN SIDE)	7
6.	EXPLODED VIEW AND PARTS LIST	17
7.	ELECTRICAL PARTS LIST	20

Please use this service manual with referring to the guide (D.F.U.) without fall. 修理の際は、必ず取扱説明書を準備し操作方法を確認の上作業を行ってください。



model CD-57 CD-67 CD-67SE

First issue: 1996/10 4822 725 51124 186W855090

#### MARANTZ DESIGN AND SERVICE

Using superior design and selected high grade components, MARANTZ company has created the ultimate in stereo sound. Only original MARANTZ parts can insure that your MARANTZ product will continue to perform to the specifications for which it is famous.

Parts for your MARANTZ equipment are generally available to our National Marantz Subsidiary or Agent.

#### **ORDERING PARTS:**

Parts can be ordered either by mail or by Fax.. In both cases, the correct part number has to be specified.

The following information must be supplied to eliminate delays in processing your order:

- 1. Complete address
- 2. Complete part numbers and quantities required
- 3. Description of parts
- 4. Model number for which part is required
- 5. Way of shipment
- 6. Signature: any order form or Fax. must be signed, otherwise such part order will be considered as null and void.

#### MARANTZ AMERICA, INC.

440 MEDINAH ROAD **ROSELLE, ILLINOIS 60172-2330** 

USA PHONE: 708 - 307 - 3100

: 708 - 307 - 2687

#### CANADA

#### LENBROOK INDUSTRIES LIMITED

633 GRANITE COURT, PICKERING, ONTARIO L1W 3K1

CANADA

PHONE: 416-831-6333 : 416-831-6936

#### EUROPE

#### MARANTZ EUROPE B.V.

P.O.BOX 80002 **BUILDING SFF2** 5600 JB EINDHOVEN THE NETHERLANDS

PHONE: +31 - 40 - 2732241 : +31 - 40 - 2735578

#### **PROFESSIONAL USA**

## SUPERSCOPE TECHNOLOGIES, INC.

MARANTZ PROFESSIONAL PRODUCTS 1000 CORPORATE BLVD., SUITE D AURORA, ILLINOIS 60504 USA

PHONE: 708 - 820 - 4800 : 708 - 820 - 8103 FAX

#### PROFESSIONAL CANADA

#### TC ELECTRONICS CANADA LTD

540 FIRING AVE

BAIE D'URFÉ, QUEBEC H9X 3T2 CANADA

PHONE: 514 - 457 - 4044 FAX : 514 - 457 - 5524

#### TRADING

#### MARANTZ EUROPE B,V, P.O.BOX 80002

**BUILDING SFF2** 5600 JB EINDHOVEN THE NETHERLANDS

PHONE: +31 - 40 - 2732241 : +31 - 40 - 2735578

#### AUSTRALIA

#### MARANTZ AUSTRALIA

3 Figtree Drive Australia Centre

Homebush, NSW2140 AUSTRALIA

PHONE: +61 2 742 8311 : +61 2 764 3074 FAX

#### BRAZIL '

#### MARANTZ BRAZIL Caixa Postal 21462

CEP 04698-970 Sao Paulo, SP, BRAZIL

PHONE: 0800 - 123123 (Discagem Direta Gratuita)

FAX : +55 11 534. 8988

#### HONG KONG

#### FORWARD INTERNATIONAL CORP.LTD.

15 TH FLOOR, REGENT CENTRE 88 QUEEN'S ROAD, CENTRAL, H. K, PHONE: +852 521 - 0883

: +852 521 - 7835

#### TAIWAN

#### PAF YUING CO,, LTD.

6 TH FL NO, 148 SUNG KIANG ROAD,

TAIPEI, 10429, TAIWAN R.O.C. PHONE: +886 (2) 5221304 - 8 : +886 (2) 5630415 FAX

#### THAILAND

## MRZ STANDARD CO,, LTD,

746 - 750 WANGBURAPA BANGKOK 10200 THAILAND

PHONE: +66 2222 9181 : +66 2225 8871

#### MALAYSIA

#### WO KEE HONG ELECTRONICS SON. BHD.

NO. 102 JALAN SS 21/35, DAMANSARA LITAMA, 47400 PETALING JAYA SELANGOR DARUL EHSAN.

MA LAYS IA

PHONE: +60 3 - 7184666 FAX : +60 3 - 7173828

#### JAPAN Technical

#### MARANTZ JAPAN INC.

35-1, 7- chome, Sagamiono Sagamihara - shi, Kanagawa

PHONE: +81 427 44 7950 FAX : +81 427 48 0889

## 日本マランツ株式会社

本 社 〒228

神奈川県相模原市相模大野7-35-1 営業本部

東京都渋谷区恵比券南 1 - 11 - 9

#### SINGAPORE

#### FORWARD MARKETING (SINGAPORE) PTE. LTD.

29. LENG KEE ROAD

SINGAPORE | 59099, PHONE: +65 475 - 4555

: +65 475 - 8623

#### SHOCK, FIRE HAZARD SERVICE TEST:

CAUTION: After servicing this appliance and prior to returning to customer, measure the resistance between either primary AC cord connector pins ( with unit NOT connected to AC mains and its Power switch ON), and the face or Front Panel of product and controls and chassis bottom.

Any resistance measurement less than 1 Megohms should cause unit to be repaired or corrected before AC power is applied, and verified before it is return to the user/customer.

Ref. UL Standard N0.1492.

In case of difficulties, do not hesitate to contact the Technical Department at above mentioned address.

#### 1. TECHNICAL SPECIFICATIONS

Audio Characteristica	CD-57	CD-67	CD-67SE
Audio Characteristics Channels		O ahannala	
		2 channels	
Sampling frequency		44.1 kHz	.i
Quantization		16-bit linear/channe	-
Error correction		nterleave read solor	
D/A conversion		1-bit linear/channe	
Wow & flutter		Precision of quartz	
Optical Readout System			
Laser		BaAIAs semiconduc	tor
Wavelength		780 nm	
Frequency Characteristics		1	
Frequency range	5 Hz – 20 kHz	5 Hz – 20 kHz	5 Hz – 20 kHz
Dynamic range	> 96 dB	> 96 dB	> 96 dB
S/N ratio	> 102 dB	> 104 dB	> 104 dB
Channel separation (1 kHz)	> 100 dB	> 102 dB	> 102 dB
THD (1 kHz)	0.0025 %	0.0025 %	0.0025 %
Analog output jack			
Output level	2V RMS	2V RMS	2V RMS
Output impedance	200 ohms	200 ohms	200 ohms
Digital output			
Pin jack	0.5 Vp-p/75 ohms	0.5 Vp-p/75 ohms	0.5 Vp-p/75 ohms
Optical output	<del></del>	-19 dBm	-19 dBm
Power Supply		•	
/01, /11 version	1	15/230V AC 50/60 H	Ηz
/02, /05, /12, /15 version		230V AC 50 Hz	
Power consumption	11 W	12 W	12 W
Cabinet, etc.			
Dimensions			
Width	439 mm	439 mm	439 mm
Height	86 mm	86 mm	88 mm
Depth	310 mm	310 mm	310 mm
Net weight	4.3 kg	4.3 kg	5.8 kg
-	4.0 kg	·	5.0 kg
Operating temperatures		+5 °C ~ +35 °C	
Operating humidity	5 %	% ~ 90 % (without de	ew)
Accessories		1	
Remote control unit (RC-63CD)	1	1	1
AA (R6) batteries	2	2	2
Stereo audio cable with RCA pins	1	1	1
Specifications subject to change without prior notice.			
openincations subject to change without phot hotice.			



CAUTION VARO! VARNING ADVERSEL DANGER VORSICHT INVISIBLE LASER RADIATION WHEN OPEN. AVOID EXPOSURE TO BEAM.

AVATTAESSA OLET ALTTIINA NÄKYMÄTTÖMÄLLE LASER SÄTTEILYLLE ÄLÄ KATSO SÄTEESEN.

OSYNLIG LASERSTRÄLNING NÄR DENNA DEL ÄR ÖPPNAD BETRAKTA EJ STRÅLEN.

USYNLIG LASERSTRÄLING VED ÅBNING. UNDGÅ UNSAETTELSE FOR STRÅLING.

INVISIBLE LASER RADIATION WHEN OPEN. AVOID DIRECT EXPOSURE TO BEAM.

UNSICHTBARE LASERSTRAHLUNG WENN ABDECKUNG GEÖFFNET. NICHT DEM STRAHL AUSSETZEN.

CLASS 1 LASER PRODUCT KLASSE 1 LASER PRODUKT I.H.T. IEC 825

#### 2. サービスモード

- 1. サービスモードへの入り方
  - [STOP]、[PLAY]、[NEXT]、[PREV] keyのうち2つ以上を押して電源を入れる。
- 2. モード() (表示 P ()()) 状態: [FOCUS OFF] [SPINDLE OFF] [RADIAL OFF] [MUTE ON]
  - [CUE] keyを押すとスレッドが外周へ移動します。
  - [REVIEW] keyを押すとスレッドが内周へ移動します。
  - [NEXT] keyを押すとモード1へ移行します。
- 3. モード1 (表示 P 01) 状態: [FOCUS ON] [SPINDLE OFF] [RADIAL OFF] [MUTE ON]
  - [NEXT] keyを押すとモード2へ移行します。
  - [PREV] keyを押すとモード 0 へ移行します。
- 4. モード2 (表示 P 02)

状態: [FOCUS ON] [SPINDLE ON] (RADIAL OFF)
[MUTE ON]

- [NEXT] keyを押すとモード3へ移行します。
- [PREV]keyを押すとモード 0 へ移行します。
- 5. モード3 (表示 P 03)

状態: [FOCUS ON] [SPINDLE ON] [RADIAL ON] [MUTE OFF]

- [PREV] keyを押すとモード2へ移行します。
- \* サービスモードの全ての状態で以下のキーが有効 です。
- 1) [STOP] keyを押すとFLが全点灯します。
- [PAUSE] keyを押すとモデル番号とパージョンを表示 します。

3) [PLAY] keyを押すと通常(サービスモード以外)と同じ動作となります。

ただし、異常が確認された時にエラー番号が表示されます。 (例: Err 10)

右の表を参考にしてください。

- 6. サービスモードの解除
  - 電源を切るとサービスモードが解除されます。

#### 2. SERVICE MODE

- 1. How to enter into the Service Mode
  - Turn the power on while pressing at least 2 of [STOP], [PLAY], [NEXT], [PREV] keys.
- 2. Mode 0 (Display P00)

Condition: [FOCUS OFF] [SPINDLE OFF] [RADIAL OFF]
[MUTE ON]

- The Sled moves outside when pressing [CUE] key.
- The Sled moves inside when pressing [REVIEW] key.
- The function moves to Mode 1 when pressing [NEXT] key.
- 3. Mode 1 (Display P01)

Condition: [FOCUS ON] [SPINDLE OFF] [RADIAL OFF]
[MUTE ON]

- The function moves to Mode 2 when pressing [NEXT] key.
- The function moves to Mode 0 when pressing [PREV] key.
- 4. Mode 2 (Display P02)

Condition: [FOCUS ON] [SPINDLE ON] [RADIAL OFF]
[MUTE ON]

- The function moves to Mode 3 when pressing [NEXT] key
- The function moves to Mode 0 when pressing [PREV] key.
- 5. Mode 3 (Display P03)

Condition: [FOCUS ON] [SPINDLE ON] [RADIAL ON]
[MUTE OFF]

- The function moves to Mode 2 when pressing [PREV] key.
- \* The following key operation can be available at all of the conditions of the service mode.
- 1) All of FL display light by pressing [STOP] key.
- Model Number and Version Nbr of the μ-processor are displayed by pressing [PAUSE] key.

3) The same as Normal operation (except Service mode) is performed by pressing [PLAY] key.

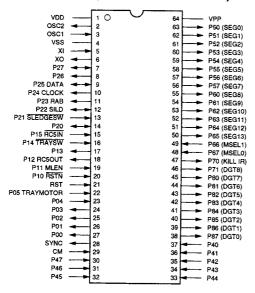
However if some default is detected, an error code is displayed. (For example: Err 10)

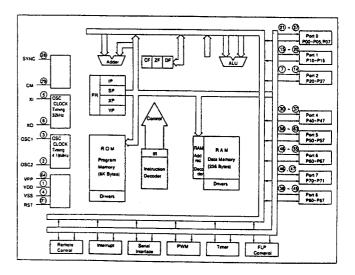
The content for each error code is shown below.

Error Code	Error
Err 02	FOCUS Error
Err 07	SUB CODE Error
Err 08	T. O. C Error
Err 09	DECODER Error
Err 10	RADIAL Error
Err 11, 12	SLED Error
Err 13	SPINDLE Error
Err 16 ~ 20	SEARCH Error
Err 30	DOOR Error
Err 31	TRAY Error
Err 32 ~ 47	KEY INPUT Error

- 6. Cancelling the Service Mode
  - The Service Mode is cancelled by turning the power off.

## 3. MICROPROCESSOR AND IC DATA MN187164 (MICROPROCESSOR)





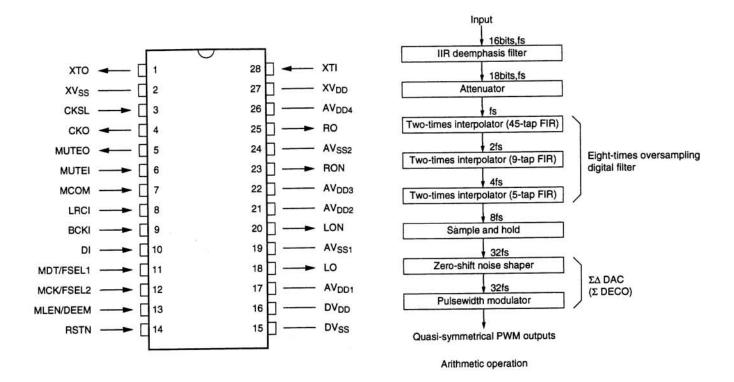
Pin Nbi		VO	Function	Pin		1/0	Function
1	Vdd		Power Supply +5V	33	P44		Key Input, KEY 5
2	OSC2	0	Clock out (8.0MHz)	34	P43	1,	Key Input, KEY 4
3	OSC1	1	Clock in (8.0MHz)	35	P42	T	Key Input, KEY 3
4	Vss	-	GND 0V	36	P41	1	Key Input, KEY 2
5	XI	1	ov	37	P40	1	Key Input, KEY 1
6	хо	0	Not Used	38	P87 (DGT0)	0	FL Digit Data, G9
7	P27	0	SAA7372 RESET	39	P86 (DGT1)	0	FL Digit Data, G8
8	P26	0	Not Used	40	P85 (DGT2)	0	FL Digit Data, G7
9	P25 DATA	1/0	Data Bus Data, SIDA	41	P84 (DGT3)	0	FL Digit Data, G6
10	P24 CLOCK	0	Data Bus Clock, SICK	42	P83 (DGT4)	0	FL Digit Data, G5
11	P23 RAB	0	SAA7372 RAB	43	P82 (DGT5)	0	FL Digit Data, G4
12	P22 SILD	1/0	SAA7372 SILD (latch)	44	P81 (DGT6)	0	FL Digit Data, G3
13	P21 SLEDGESW	1	Sledge SW, SLSW	45	P80 (DGT7)	0	FL Digit Data, G2
14	P20	0	Not Used	46	P71 (DGT8)	0	FL Digit Data, G1
15	P15 RC5IN	1	RC-5 code Input	47	P70 KILL IR	0	Kill IR, N.C.
16	P14 TRAYSW	_	Tray In/Out SW, TRSW	48	P67 MSEL0	1	Model Select SW 0
17	P13	0	Not Used	49	P66 MSEL1	1	Model Select SW 1
18	P12 RC5OUT	0	RC-5 code Output	50	P65 (SEG13)	0	FL Segment Data, P1
19	P11 MLEN	0	SM5872 MLEN (latch)	51	P64 (SEG12)	0	FL Segment Data, P2
20	P10 RSTN	0	SM5872 RSTN (reset)	52	P63 (SEG11)	0	FL Segment Data, P3
21	RST	1	RESET	53	P62 (SEG10)	0	FL Segment Data, P4
22	P05 TRAYMOTOR	0	Tray Motor	54	P61 (SEG9)	0	FL Segment Data, P5
23	P04	0	Not Used	55	P60 (SEG8)	0	FL Segment Data, P6
24	P03	0	Not Used	56	P57 (SEG7)	0	FL Segment Data, P7
25	P02	0	Not Used	57	P56 (SEG6)	0	FL Segment Data, P8
26	P01		Not Used	58	P55 (SEG5)	0	FL Segment Data, P9
27	P00	1	Not Used	59	P54 (SEG4)	0	FL Segment Data, P10
28	SYNC	0	Not Used	60	P53 (SEG3)	0	FL Segment Data, P11
29	СМ	1	ov	61	P52 (SEG2)	0	FL Segment Data, P12
30	P47	1	Key Input, KEY 8	62	P51 (SEG1)	0	FL Segment Data, P1
31	P46		Key Input, KEY 7	63	P50 (SEG0)	0	FL Segment Data, F
32	P45		Key Input, KEY 6	64	Vpp	-	Power Supply -25

## SAA7372GP (DIGITAL DECODING IC WITH RAM)

SYMBOL	PIN	DESCRIPTION
Vasa1	1	analogue supply*
V <sub>DDA</sub> 1	2	analogue supply*
D1	3	unipolar current input (central diode signal input)
D2	4	unipolar current input (central diode signal input)
D3	5	unipolar current input (central diode signal input)
V <sub>RL</sub>	6	reference input for ADC
D4	7	unipolar current input (central diode signal input)
R1	8	unipolar current input (satellite diode signal input)
R2	9	unipolar current input (satellite diode signal input)
IREFT	10	current reference for calibration ADC
V <sub>RH</sub>	11	reference output from ADC
V <sub>SSA</sub> 2	12	analogue supply
SELPLL	13	selects whether internal clock multiplier PLL is used
ISUCE	14	current feedback from data slicer
HFIN	15	comparator signal input
V <sub>SSA</sub> 3	16	analogue supply*
HFREF	17	comparator common mode input
IREF	18	reference current pin (nominally V <sub>DO</sub> /2)
V <sub>DOA</sub> 2	19	analogue supply*
TEST1	20	test control input; this pin should be tied LOW
CRIN	21	crystal/resonator input
CROUT	22	crystal/resonator output
TEST2	23	test control Input; this pin should be tied LOW
CL16	24	16.9344 MHz system clock output
CL11	25	11.2896 MHz clock output
RA	26	radial actuator output
FO FO	27	focus actuator output
SL	28	<u> </u>
TEST3	29	siedge control output
		test control input; this pin should be tied LOW
V <sub>DD</sub> 1 <sub>P</sub>	30	digital supply periphery
DOBM	31	bi-phase mark output (externally buffered) (tri-state)
V <sub>33</sub> 1	32	digital supply*
MOTOS	33	motor out 1 - versatile (tri-state)
MOTO2	34	motor out 2 - versatile (tri-state)
SBSY	35	subcode byte sync (tri-state)
SFSY	36	subcode frame sync (tri-state)
SUB	37	subcode clock input
	38	P to W subcode bits (tri-state)
V <sub>SS</sub> 2	39	digital supply
V5	40	versatile output pin
V4	41	versatile output pin
V3	42	versattle output pin (open drain)
KILL	43	idil output - programmable (open drain)
MISC	44	general purpose DAC output (tri-state)
DATA	45	serial data output (Iri-state)
WCLK	46	word clock output (tri-state)
V <sub>DD</sub> 2 <sub>P</sub>	47	digital supply periphery*
COLK	-	
SCLK	48	serial bit clock output (tri-state)
V <sub>SS</sub> 3	49	digital supply*
V <sub>SS</sub> 3 CL4	49 50	digital supply* 4.2336 MHz µP clock output
V <sub>SS</sub> 3 CL4 SDA	49 50 51	digital supply* 4.2336 MHz µP clock output  µP interface data VO line (open drain output)
V <sub>SS</sub> 3 CL4 SDA SCL	49 50 51 52	digital supply* 4.2336 MHz µP clock output  µP interface data VO line (open drain output)  µP interface clock line
V <sub>SS</sub> 3 CL4 SDA SCL RAB	49 50 51 52 53	digital supply*  4.2336 MHz µP clock output  µP interface data VO line (open drain output)  µP interface clock line  µP Interface RVW and load control line (decoder part)
V <sub>SS</sub> 3 CL4 SDA SCL RAB SilD	49 50 51 52 53 54	digital supply*  4.2336 MHz μP clock output  μP interface data VO line (open drain output)  μP interface clock line  μP interface R/W and load control line (decoder part)  μP interface R/W and load control line (servo part)
V <sub>SS</sub> 3 CL4 SDA SCL RAB SILD N/C	49 50 51 52 53 54 55	digital supply*  4.2336 MHz μP clock output  μP interface data VO line (open drain output)  μP interface clock line  μP interface R/W and load control line (decoder part)  μP interface R/W and load control line (servo part)  No connection
V <sub>SS</sub> 3 CL4 SDA SCL RAB SILD N/C V <sub>SS</sub> 4	49 50 51 52 53 54 55 56	digital supply*  4.2336 MHz μP clock output  μP interface data VO line (open drain output)  μP interface clock line  μP interface PVW and load control line (decoder part)  μP interface PVW and load control line (servo part)  No connection  digital supply*
V <sub>SS</sub> 3 CL4 SDA SCL RAB SILD N/C V <sub>SS</sub> 4 RESET	49 50 51 52 53 54 55 56 57	digital supply*  4.2336 MHz μP clock output  μP interface data VO line (open drain output)  μP interface clock line  μP interface PVW and load control line (decoder part)  μP interface PVW and load control line (servo part)  No connection  digital supply*  power-on reset input (active low)
V <sub>SS</sub> 3 CL4 SDA SCL RAB SILD N/C V <sub>SS</sub> 4	49 50 51 52 53 54 55 56 57 58	digital supply*  4.2336 MHz μP clock output μP interface data VO line (open drain output) μP interface clock line μP interface R/W and load control line (decoder part) μP interface R/W and load control line (servo part) No connection digital supply* power-on reset input (active low) request line/status register output (open drain)
V <sub>SS</sub> 3 CL4 SDA SCL RAB SILD N/C V <sub>SS</sub> 4 RESET STATUS V <sub>DO</sub> 3C	49 50 51 52 53 54 55 56 57	digital supply*  4.2336 MHz μP clock output  μP interface data VO line (open drain output)  μP interface clock line  μP interface PVW and load control line (decoder part)  μP interface PVW and load control line (servo part)  No connection  digital supply*  power-on reset input (active low)
V <sub>SS</sub> 3 CL4 SDA SCL RAB SILD N/C V <sub>SS</sub> 4 RESET STATUS V <sub>DO</sub> 3C C2FAIL	49 50 51 52 53 54 55 56 57 58	digital supply*  4.2336 MHz μP clock output μP interface data VO line (open drain output) μP interface clock line μP interface R/W and load control line (decoder part) μP interface R/W and load control line (servo part) No connection digital supply* power-on reset input (active low) request line/status register output (open drain)
V <sub>SS</sub> 3 CL4 SDA SCL RAB SILD N/C V <sub>SS</sub> 4 RESET STATUS V <sub>DO</sub> 3C	49 50 51 52 53 54 55 56 57 58	digital supply*  4.2336 MHz μP clock output μP interface data VO line (open drain output) μP interface clock line μP interface R/W and load control line (decoder part) μP interface R/W and load control line (servo part) No connection digital supply* power-on reset input (active low) request line/status register output (open drain) digital supply core*
V <sub>SS</sub> 3 CL4 SDA SCL RAB SILD N/C V <sub>SS</sub> 4 RESET STATUS V <sub>DO</sub> 3C C2FAIL CFLG	49 50 51 52 53 54 55 56 57 58 59 60	digital supply*  4.2336 MHz μP clock output  μP interface data VO line (open drain output)  μP interface clock line  μP interface R/W and load control line (decoder part)  μP interface R/W and load control line (servo part)  No connection  digital supply*  power-on reset input (active low)  request line/status register output (open drain)  digital supply core*  indication of correction failure (open drain)
V <sub>SS</sub> 3 CL4 SDA SCL RAB SILD N/C V <sub>SS</sub> 4 RESET STATUS V <sub>DO</sub> 3C C2FAIL	49 50 51 52 53 54 55 56 57 58 59 60 61	digital supply*  4.2336 MHz μP clock output  μP interface data VO line (open drain output)  μP interface clock line  μP interface R/W and load control line (decoder part)  μP interface R/W and load control line (servo part)  No connection  digital supply*  power-on reset input (active low)  request line/status register output (open drain)  digital supply core*  indication of correction fallure (open drain)  correction flag output (open drain)

<sup>\*</sup> Note: All supply pins must be connected to the same external power supply voltage.

## SM5872BS (DIGITAL FILTER AND D/A CONVERTER)



Pin Nbr	Pin Name	1/0	Function
1	хто	0	Crystal oscillator output
2	XVss	1.0	GND (X'TAL)
3	CKSL	1	This pin should be tied HIGH for normal operation. Internal pull-up resistor
4	ско	0	Clock output (384fs)
5	MUTEO	0	Mute detect output
6	MUTEI	1	Mute input. Internal pull-resistor
7	мсом	1	Interface mode select input. Internal pull-up resistor : H = Interface mode L = Local
8	LRCI	1	Data sample rate clock input. Internal pull-up resistor : H = L ch L = R ch
9	BCKI	1	Bit clock input. Internal pull-up resistor
10	DI	1	Serial data input. Internal pull-up resistor
11	MDT/FSEL1	1	Microprocessor interface data input (and local mode frequency select input). Internal pull-up resistor
12	MCK/FSEL2	1	Microprocessor interface clock input (and local mode frequency select input). Internal pull-up resistor
13	MLEN/DEEM	1	Microprocessor interface latch enable input (and local mode deemphasis control input). Internal pull-up resistor
14	RSTN	1	Reset input. Internal pull-up resistor
15	DVss		GND (Digital)
16	DVoo	-	Power supply (Digital)
17	AV <sub>DD1</sub>	•	Power supply 1 (Analogue)
18	LO	0	Left-channel positive PWM output
19	AVss <sub>1</sub>		GND 1 (Analogue)
20	LON	0	Left-channel negative PWM output
21	AV <sub>DD2</sub>	-	Power supply 2 (Analogue)
22	AVDD3		Power supply 3 (Analogue)
23	RON	0	Right-channel negative PWM output
24	AVss2		GND 2 (Analogue)
25	RO	0	Right-channel positive PWM output
26	AV <sub>DD4</sub>	-	Power supply 4 (Analogue)
27	XVoo		Power supply (X'TAL)
28	XTI	1	Crystal oscillator or external clock input, 384fs (16.9344 MHz)

38411

0001 5M5872B5 -101-

0102 SAA7372

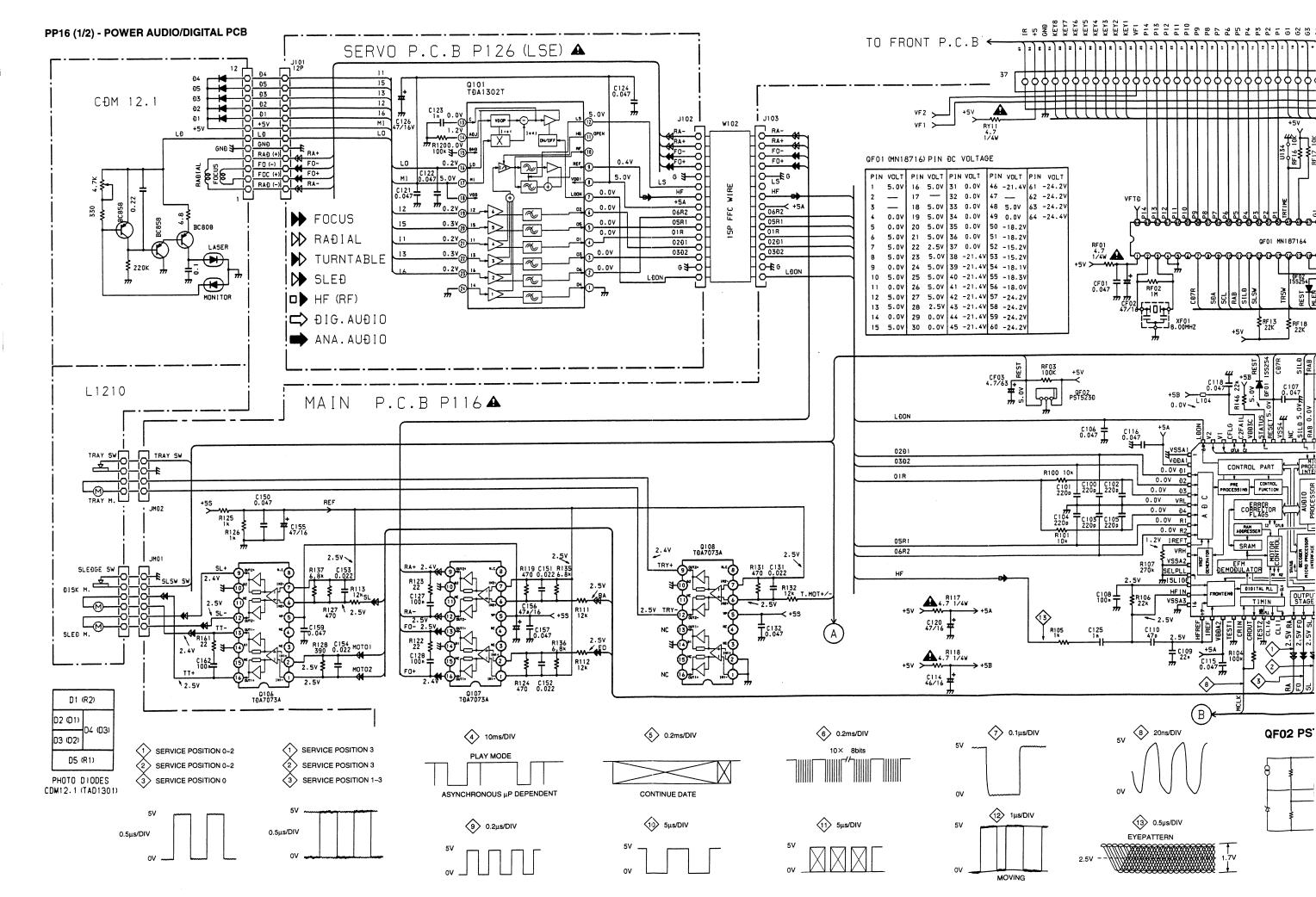
CO HECHANISM

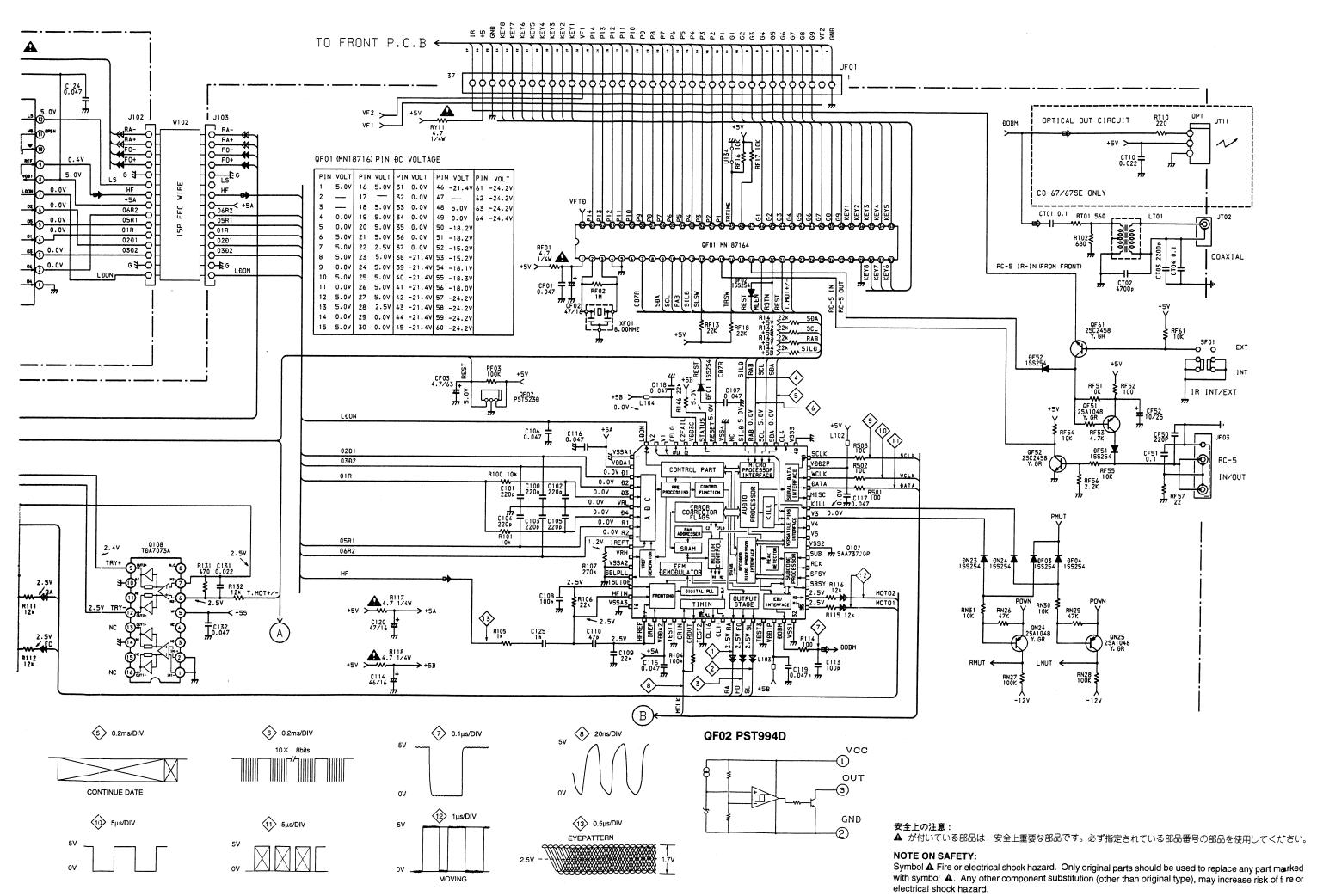
L.P.F AND BUFFER

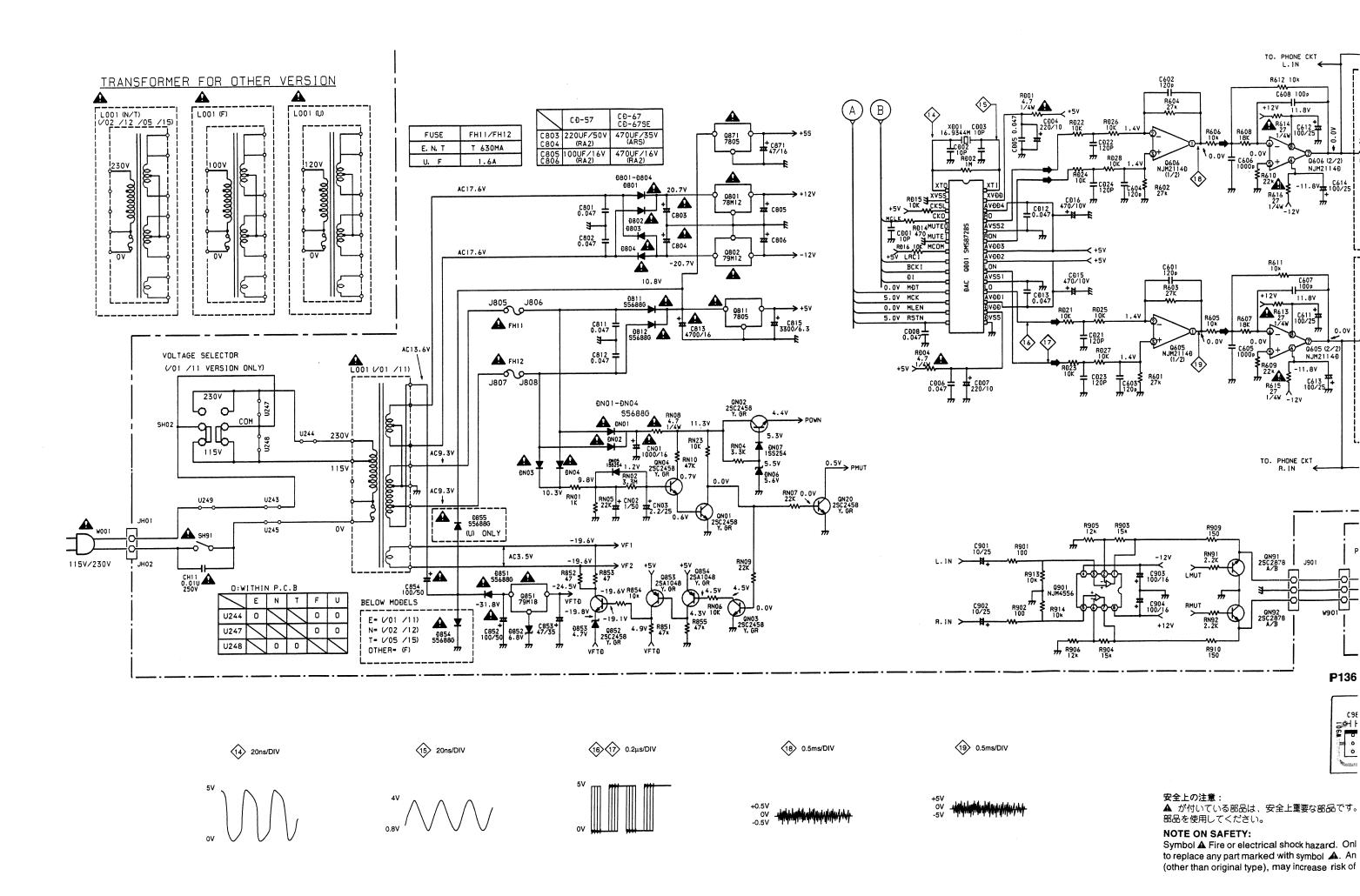
0601

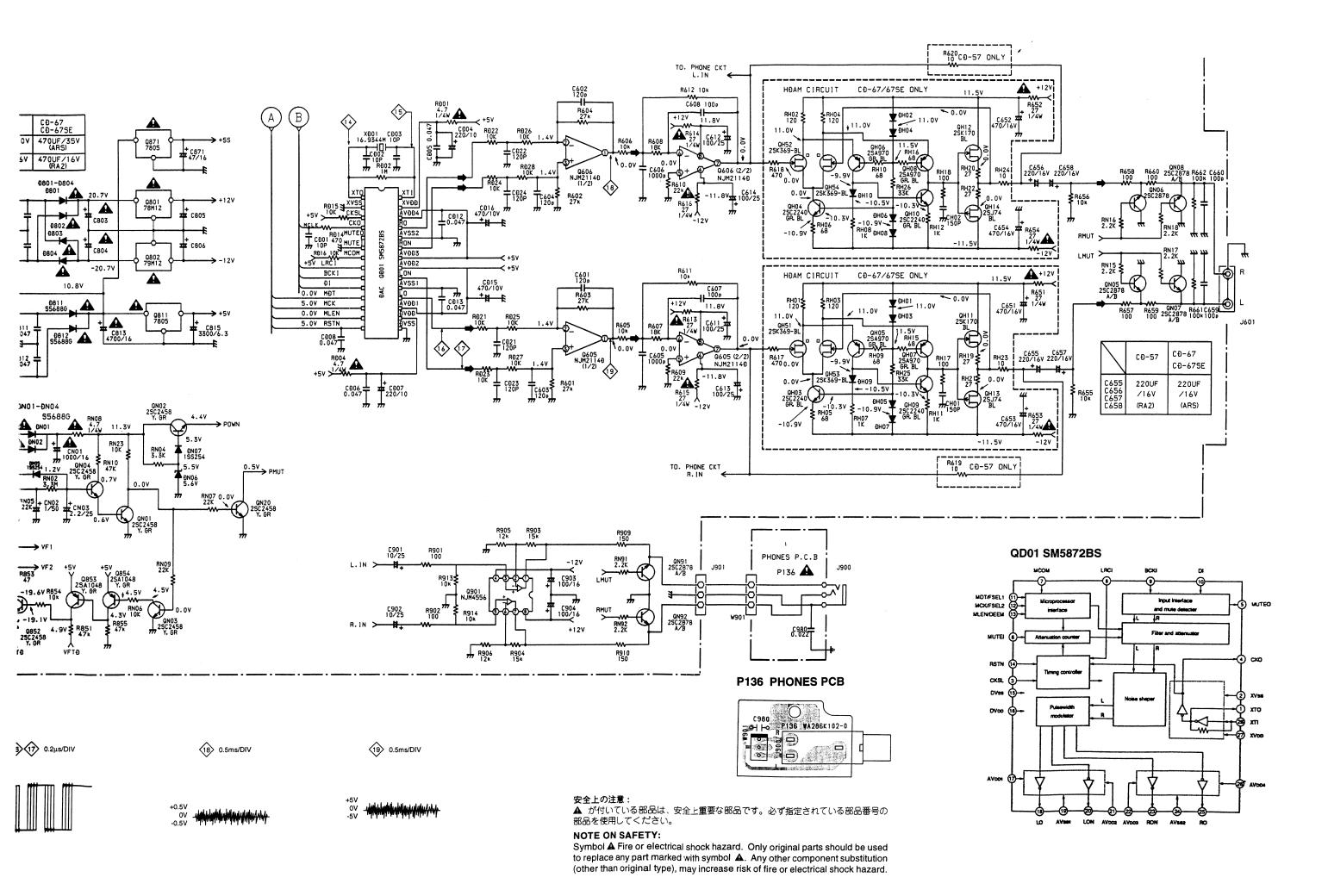
HAGH

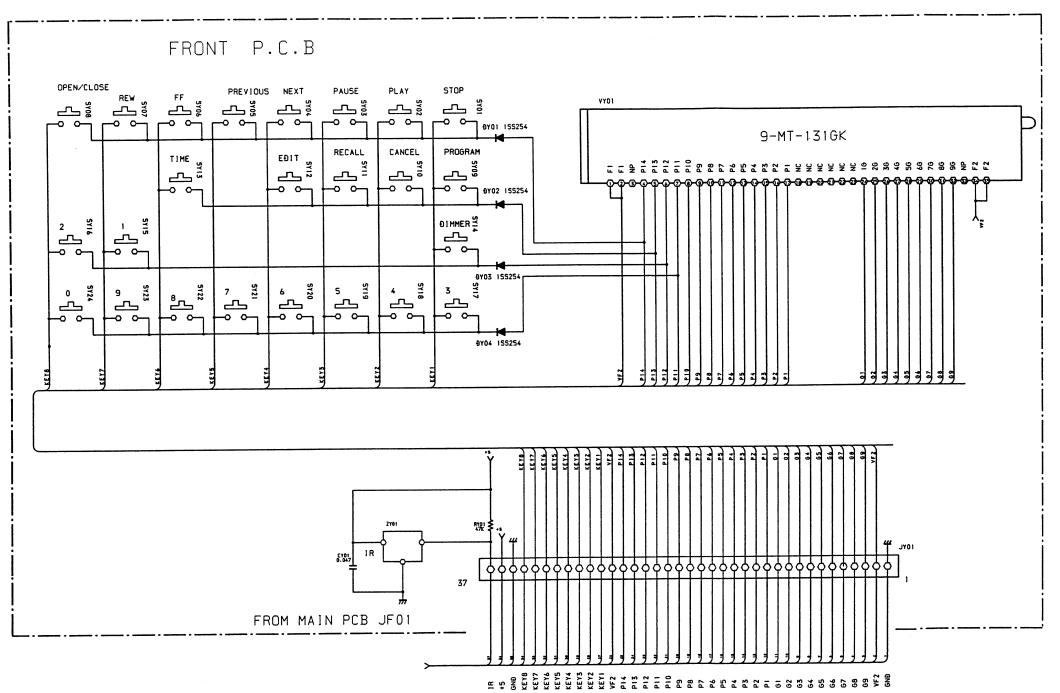
## 5. SCHEMATIC DIAGRAMS AND PARTS LOCATIONS (PATTERN SIDE) QH10,QH04,QH06,QH52,QN06,QH54,QH08,QH14,QH12,QN08 QN05,QH11,QH13,QH09,QH05,QN07,QH03,QH51,QH53,QH07 Q851,Q108,Q107 QN01,QN03,QN04 Q871,Q106 Q854,Q853 Q606 QD01 QF01 Q102 QN92,QN91 QN25,QN24,QN20,QF02,QF52,QF51,QF61 P116 MAIN PCB FOR CONTINUED CAUTION 000 PROTECTION AGAINST FIRE HAZARD, REPLACE ONLY WITH 0 SAME TYPE FUSE. HOT U255 U227° (78M12) UNE PROTECTION AFIN D'ASSURER 0 CONTRE LES RISQUES PERMANENTE D'INCENDIE, REMPLACER U228 FUSIBLE UNIQUEMENT PAR UN DE MEME TYPE FUSE. U230 POWER COOF 00 P126 SERVO PCB WG186W102-0 U205 60000100 R126 0 U196 o目o U199 +5V U198 ° C815 PHONE P116 WG186W101-0

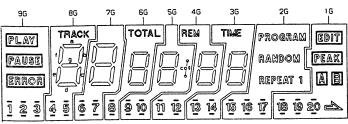








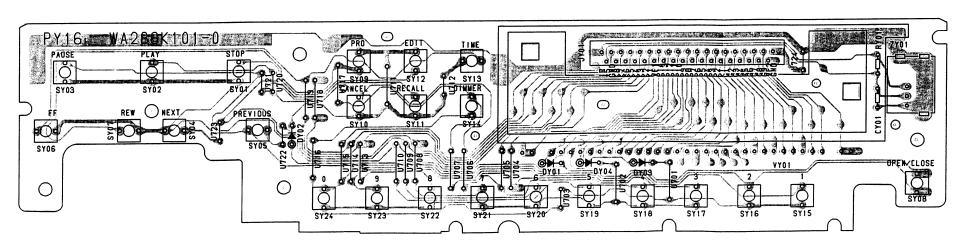


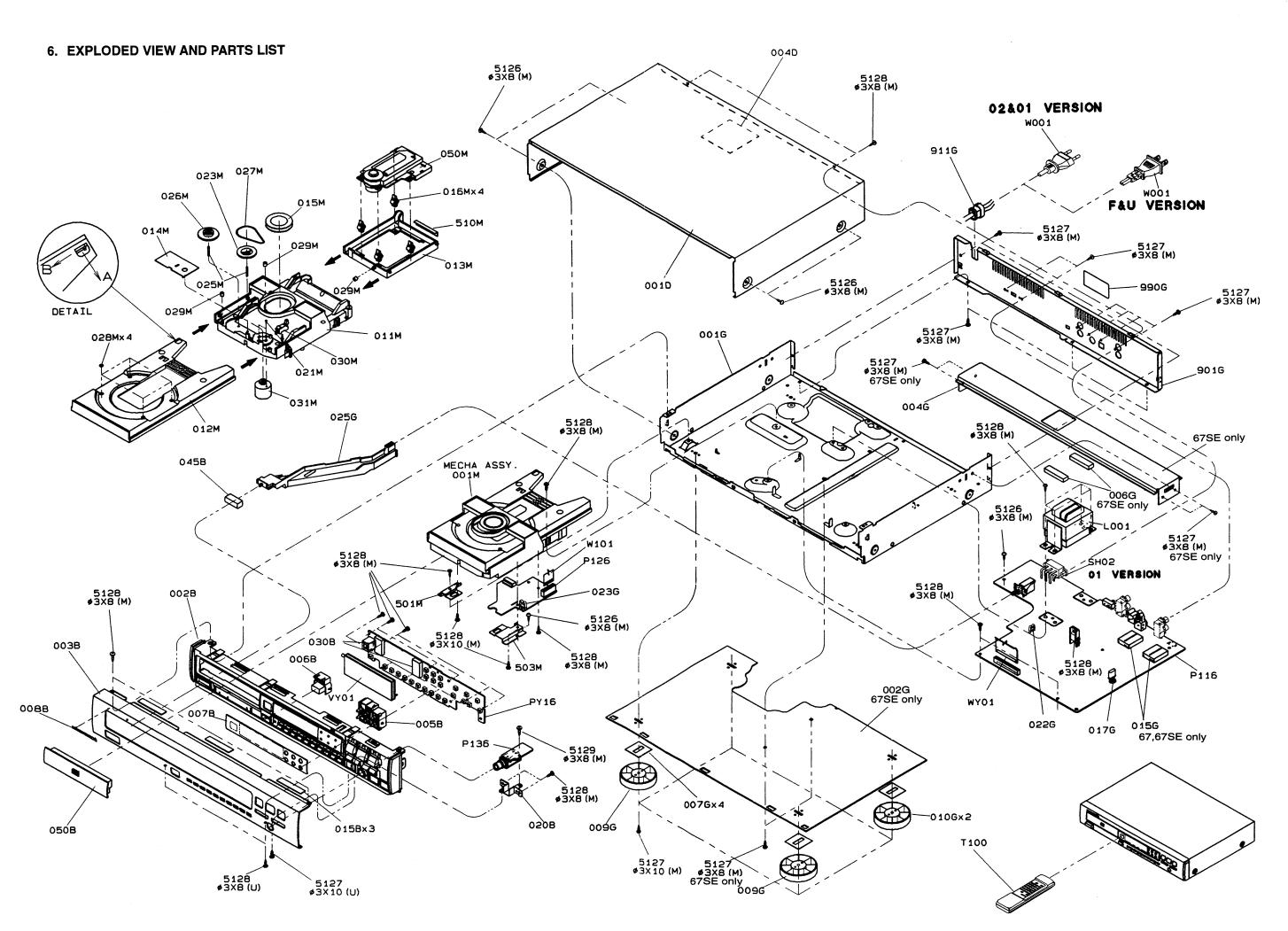


ANCDE	CONNECT	10N							
	9G	9G	7G	6G	5G	4G	3G	2G	1G
PI	-	8	8	•	a			Pac Gram	PZAK
P2	3	b	b	b	ь	ь	ь	15	18
Р3	1	c	С	С	С	С	с	(15)	(18)
P4	30	đ	d	d	đ	d	d	1	
P5	-	e	e	e	e	•	•	repeat	8
P6	RORES	1	1	1	1	1	f	-	A
P7	(2)	9	9	g	9	9	9	(15)	(18)
P8	2	(4)	-	TOTAL	col	REM	(13)	(16)	(19)
P9	(2)	43	ទើ	-	(9)	(11)	13	18	19
P10	(3)	3	6	(8)	9	111	(13)	(16)	(19)
PII	33	ເຮົາ	( <u>E</u> )	8	(9)	(11)	(14)	(17)	(20)
P12	(3)	5	(7)	(8)	(10)	(12)	16	17	20
P13	PLAY	<u> </u>	7	-	10	1/2	(14)	(12)	(20)
P14	Pause	TRACK	(2)	-	(10)	(12)	TIME	RANDOM	EDIT

9-MT-131GK ANODE CONNECTION

#### **PY16 FRONT PCB**



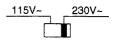


(VER	S.:VERSION,	U:U.S.A,	F:Japan, K:Far East, /XX	:Europe]
POS.	VERS.	PART NO.	DESCRIPTION	PART NO.
NO.	COLOR	( For EUROPE )		(For U/K/F)
002B 002B 003B 003B 003B 003B 003B	CD-67 BLACK CD-67 GOLD CD-67SE BLACK CD-67SE GOLD	4822 459 04344 4822 459 04345 4822 410 62898	FRONT PANEL AL CD-67 GLD FRONT PANEL AL CD-67 SE BLK FRONT PANEL AL CD-67 SE GLD BUTTON D3 GOLD HOT STAMPED	185W105020 185W105120 185W248010 186W248010 186W248020 187W248010 187W248020 285K270020
006B 006B	BLACK GOLD	4822 410 62899 4822 410 62931	BUTTON OPEN/CLOSE BLK BUTTON OPEN/CLOSE GLD	285K270030 285K270130
007B 008B 008B 045B 045B 050B	BLACK GOLD BLACK GOLD BLACK GOLD	4822 450 62145 4822 410 62744 4822 410 62745 4822 454 30491 4822 454 30494	BADGE MARANTZ BADGE (BL) BADGE MARANTZ BADGE (GL) BUTTON POWER BLACK BUTTON POWER GOLD	285K158010 185J251010 185J251110 285K270010 285K270110 285K063010 285K063110
001D 001D	BLACK GOLD		LID TOP COVER BLACK LID TOP COVER GOLD	185W257010 185W257110
009G 010G 025G		4822 462 42045 4822 462 42048 4822 403 70989	LEG, (GOLD HOT STAMP) REAR	183J057010 183J057110 285K121010
001M 011M 012M 013M 015M 016M 021M 023M 026M 027M		4822 444 50678 4822 444 50679 4822 464 50895 4822 402 61415 4822 325 50215 4822 502 12001 4822 528 81465 4822 528 81464 4822 358 31168	TRAY 3104 144 01420 SLIDE CHASSIS 3104 144 00450 SUBCHASSIS CLAMPER 3104 147 10030 ASSY BUFFER 3104 144 00650 SUSPENSION SCREW 2522 201 00002 SCR.TORXM2X4 PULLEY 3104 144 00400 PULLEY	271K304510 271K105030 271K163010 271K105040 271K005010 271K056010 271K010010 271K262010 271K262010 271K264010
028M 029M 030M		4822 325 80511 4822 325 60379 4822 276 13222	BUFFER 3104 144 01390 ORNAMENTA L TU BUFFER 3104 144 00810 DAMPING G ROMME MINI SWITCH 8204 055 29120 SINMEI QA S1229	271K056030 271K056020 *SM000300R
031M		4822 361 21492	D.C MOTOR 3104 148 00270 RF-310T A-1140	*MM000660R
050M		4822 691 30278	MECHANISM 3104 147 00300 CDM12.1 EX.WIR	271K304560
▲W001 ▲W001 ▲W001 ▲W001	/05/15 /01/02/11//12		A.C POWER CORD (U) MAYOR UL/CSA A.C POWER CORD MAIN BS 250V5A A.C POWER CORD MAIN N A.C POWER CORD AC (F/E)	YC01800580 YC02000700 YC01800440 YC02000770
WY01	/01/02/05/11 /12/15, F		JUMPER LEAD, SUMI-CARD37P/120MM	YU37120500
WY01			JUMPER LEAD, SUMI-CARD37P/120MM	YU37120520
001T 001T	U /01/02/05 /11/12/15	4822 736 14664	PACKING USER MANUAL CD-67/67SE COMB. USER MANUAL CD-57/67/67SE COM.	186W851250 186W851310
001T	F		USER MANUAL CD-67/67SE COMB.	186W851110
B001			BATTERY UM-3NEPH/2S AN D 2P	ZF23302000
J081 J081 J082	CD-57 CD-67/67SE /01/11	4822 321 21438 4822 321 62205	CONNECTIVE CORRCA ST. 1M CONNECTIVE CORD RCA ST. 1M (GOLD) JACK AC ADAPTER PLUG 6A 250V	ZD01000330 ZD01000550 YJ04002310
T100		4822 218 10527	UNIT KIT IR COMANDER (RC-63CD)	ZK286K0010

## VOLTAGE CONVERSION (/01B version only)

To convert the unit to a different power source voltage, change the position as illustrated in the drawing below.

### **VOLTAGE SELECTOR**



#### **CAUTION**

DISCONNECT POWER SUPPLY CORD FROM AC OUTLET BEFORE CONVERTING VOLTAGE.

#### 7. ELECTRICAL PARTS LIST

#### **ASSIGNMENT OF COMMON PARTS CODES.** RESISTOR 图\*\*\* : (1) GD05 x x x 140, Carbon film fixed resistor, ±5% 1/4W <u> 日米米米</u> : (2) GD05 x x x 160, Carbon film fixed resistor, ±5% 1/6W **①**-Resistance value Examples; Resistance value $100~k\Omega\,.....104$ $0.1~\Omega.....001$ $10\;\Omega......100$ $1~k\Omega ......102$ $680 \text{ k}\Omega \dots .684$ $0.5 \Omega$ .....005 $18 \Omega \dots 180$ $2.7~k\Omega \dots .272$ 1 MΩ.....105 1 Ω.....010 $100\;\Omega\,.....101$ $10~k\Omega \dots \dots 103$ $4.7 \ M\Omega \dots .475$ $6.8 \Omega.....068$ $390\;\Omega\,.....391$ $22 k\Omega \dots 223$ (Note) Please distinguish 1/4W from 1/6W by the shape of parts used actually. C\*\*\* : CERAMIC CAP. (1) DD1x x x x 370, Ceramic capacitor Disc type 1 2 Temp. coeff. P350 ~ N1000, 50V Capacity value Tolerance Examples; Tolerance (Capacity deviation) ± 0.25pF ..... 0 ± 0.5pF ..... 1 ± 5% ..... 5 \*Tolerance of COMMON PARTS handled here are as follows: 0.5pF ~ 5pF..... ± 0.25pF 6pF ~ 10pF...... ± 0.5pF 12pF ~ 560pF ..... ±5% ② Capacity value 0.5 pF ....005 3 pF ......030 100 pF ......101 1 pF ....010 220 pF .....221 10 pF .....100 1.5 pF ....015 47 pF ......470 560 pF ......561 C\*\*\* : CERAMIC CAP (1) DK16 x x x 300, High dielectric constant ceramic capacitor 1 Disc type Temp. chara. 2B4, 50V Capacity value Examples; ① Capacity value 1000 pF ......102 100 pF .....101 10000 pF......103 470 pF ......471 2200 pF......222 C\*\*\*: ELECTROLY CAP. ( 本 ), FILM CAP. ( 二 ) Electrolytic capacitor (1) EA x x x x x x x 10,

NH85 x x x 140 -→ RF73B2E x x x x Ω J (±5% 1/4W) Resistance value  $(0.1 - 10k\Omega)$ 2. Matsushita Electronic Components Co., Ltd Part No. Type No. Description NF05 x x x 140 → EŔD-2FCJxxx ( ± 5% 1/4W) RF05 x x x 140 -NF02 x x x 140 -→ ERD-2FCG x x x ( ± 2% 1/4W ) RF02 x x x 140 └─ \* Resistance value \* Resistance value Examples: \* Resistance value 0.1 Ω.....001 10 Ω.....100  $100\;k\Omega......104$ 1 kΩ.....102 0.5 Ω......005 18 Ω.....180  $2.7~k\Omega.....272$  $680~k\Omega......684$ 1 Ω.....010  $100\;\Omega.....101$  $10~k\Omega.....103$ 1 MΩ.....105 6.8 Ω......068 390 Ω.....391 22 kΩ.....223  $4.7~\text{M}\Omega......475$ 

NOTE ON SAFETY FOR FUSIBLE RESISTOR:

1.

**KOA** Corporation

Part No.

NH05 x x x 140

NH05 x x x 120

NH85 x x x 110 -

The suppliers and their type numbers of fusible resistors aer as follows

Description

(±5% 1/4W)

(±5% 1/2W)

(±5% 1/10W)

Type No.

→ RF73B2A x x x x Ω J

→ RF25SxxxxΩJ

→ RF50S x x x x Ω J

		ABBREVIATIO	ON A	AND M	ARKS
$\prod_{i}$	ANT.	: ANTENNA	2	BATT	: BATTERY
3	1		4	CER.	: CERAMIC
5	1	: CONNECTING	Ι'		
3	CONN.	CONNECTING	6	DIG.	: DIGITAL
7	НР	: HEADPHONE	8	MIC.	: MICROPHONE
9	µ-PRO	: MICROPROCESSOR	10	REC.	: RECORDING
$\mathbf{I}_{1}$	RES.	RESISTOR	12	SPK	SPEAKER
13	sw	: SWITCH	14	TRANSF.	: Transformer
1:	TRIM.	: TRIMMING	16	TRS.	: TRANSISTOR
13	VAR.	: VARIABLE	18	X'TAL	: CRYSTAL
19	)		20		
21			22		İ
23			24		
	]				
25			26		Ĭ
27			28		
29	.}		30		İ
1					ļ

#### **NOTE ON SAFETY:**

Symbol A Fire or electrical shock hazard. Only original parts should be used to replace any part marked with symbol A . Any other component substitution (other than original type), may increase risk of fire or electrical shock hazard.

#### 安全上の注意:

▲ がついている部品は、安全上重要な部品です。必ず指 定されている部品番号の部品を使用して下さい。

10 V010 35 V	035
16 V016 50 V	050
(2) DE15 250	Diamin films and the
	→ Plastic film capacitor
DF15 x x x 310 —	One-way type, Mylar ± 5% 50V
DF16 x x x 310	→ Plastic film capacitor
21 10 8 8 8 9 10	
~	One-way type, Mylar ± 10% 50V
Ű	
<u></u>	Capacity value
Examples :	
① Capacity value	
O Capacity Value	
0.001 μF (1000pF)102	0.1 µF104
0.0018 μF182	0.56 µF564
	0.50 pi504

4.7 µF ......475

10 µF ......106

22 µF .....226

25 V .....025

1 2

Examples;

① Capacity value

② Working voltage 6.3 V ......006

0.1 μF .....104

1 µF ......105

0.01 µF ......103

0.015 µF .....153

0.33 µF ......334

NOTE: 1) The above CODES (R\*\*\*, R\*\*\*, C\*\*\*, C\*\*\* and C\*\*\*) are omitted on the schematic diagram in some case.

1 µF ..... 105

One-way lead type, Tolerance ± 20%

100 μF ......107

330 µF .....337 1100 µF......118

2200 µF .....228

50V

Working voltage - Capacity value

- 2) On the occasion, be confirmed common parts on the parts list.
- 3) Refer to "Common Parts List" for the other common parts ( R105, DD4, DK4 ).

	RS. :VERSION		F:Ja <sub>l</sub>	pan, K:Far East, /X		. —		·		
POS NO.	. VERS. COLOR	PART NO.		DESCRIPTION	PART NO	11	. VERS.	PART NO.	DESCRIPTION	PART NO.
Q852		4822 130 42298	TRS.	2SC536SP, 2SC2458,	HT30001000	11	1 332011	, or Lonore		(1010/K/F)
				2SC3311, 2SC1740S		<b>▲</b> FH11			P116-MISCELLANEOUS FUSE T 630MA 250V SL	FS10063210
<b>Q</b> 853	1	4822 130 42715		2SA608SP, 2SA1048, 2SA1309, 2SA933S	HT10001000	<b>▲</b> FH11 <b>▲</b> FH11		4822 253 40196 4822 070 36301		FS10160310 FS10063850
Q854	<b>\$</b>	4822 130 42715	TRS.	2SA608SP, 2SA1048, 2SA1309, 2SA933S	HT10001000	<b>▲</b> FH12	/05/11/12/1 CD-57/01/02/0		FUSE T 630MA 250V SL	FS10063210
Q901		4822 209 82362	IC	NJM4556D	HC10016090	▲FH12		4822 253 40196 4822 070 3630	FUSE 1.6A 125V GGS	FS10160310 FS10063850
QD0	1	4822 209 32762	IC	SM5872BS DIG.FIL & DAC	HC10010350		/05/11/12/1		, , , , , , , , , , , , , , , , , , , ,	101000000
QF01 QF02 QF51	!	4822 209 15166 4822 209 15167 4822 130 42715	IC	CPU MN187164 RESET IC PST994D 2SA608SP, 2SA1048,	HU186WA000 HC10073550 HT10001000	J103 J601 J601		4822 265 41351 4822 265 31045	TERMINAL 1L2P W/R A.OUT	YJ07007960 YT02021210 YT02021080
QF52		4822 130 42298	TRS.	2SA1309, 2SA933S 2SC536SP, 2SC2458,	HT30001000	JF01		4822 265 61251	JACK 37 PIN FFC	YJ06011070
QF61		4822 130 42298	TRS.	2SC3311, 2SC1740S 2SC536SP, 2SC2458,	HT30001000	JF03		4822 267 41009	TERMINAL 2P RCA PIN JACK	YT02020890
				2SC3311,2SC1740S		JH01 JH02			TERMINAL AC CORD ON PCB TERMINAL AC CORD ON PCB	YL01010250 YL01010250
QH03 QH04 QH05		4822 130 43233 4822 130 43233		2SC2240 (GR OR BL) 2SC2240 (GR OR BL)	HT322402A0 HT322402A0	JM0: JM0:	ı	4822 265 30473 4822 265 30482	PLUG 6P PLUG B6B-XH-A	YP06003420 YP06003440
QH08	CD-67/67SE	4822 130 42949		2SA970 (GR OR BL)	HT109702A0	JT02 JT02 JT11			TERMINAL 14X14 RA 1L1P BLK	YT02010780 YT02010790 YJ15000090
QH10	CD-67/67SE CD-67/67SE	4822 130 43233 4822 130 43233	TRS.	2SC2240 (GR OR BL) 2SC2240 (GR OR BL)	HT322402A0 HT322402A0	<b>▲</b> L001	CD-57/02/05	4822 146 10645	<u> </u>	TS15740010
	CD-67/67SE CD-67/67SE	5322 130 41844 5322 130 41844		2SK170 BL 2SK170 BL	HF201701G0 HF201701G0	▲L001 ▲L001	CD-57/01 CD-67, U	4822 146 10644	POWER TRANSF.	TS15740020 TS15740030
QH13	CD-67/67SE	4822 130 62649	F.E.T.	2SJ74 BL	HF100741G0	▲L001 ▲L001	CD-67/02/05 CD-67/01	4822 146 10645 4822 146 10644	POWER TRANSF.	TS15740010 TS15740020
QH14 QH51	CD-67/67SE	4822 130 62649		2\$J74 BL	HF100741G0	▲L001 ▲L001	CD-67, F	4822 146 10646	POWER TRANSF.	TS15740040 TS15740050
S QH54	CD-67/67SE	4822 130 42839	F.E.T.	2SK369BL	HF203691B0	▲L001 ▲L001 ▲L001	CD-67/11 CD-67SE, U CD-67SE, F	4822 146 10647	POWER TRANSF. POWER TRANSF. POWER TRANSF.	TS15740060 TS15740070 TS15740080
QN01 \$ QN04		4822 130 42298	TRS.	2SC536SP, 2SC2458, 2SC3311, 2SC1740S	HT30001000	L102 L103		4822 526 10584 4822 526 10584	FERRITE CORE FERRITE CORE	FC90090010 FC90090010
QN05		4822 130 43818	TRS.	2SC2878 A OR BRANK	HT328782A0	L104 LT01	1	4822 526 10584 4822 142 60388	FERRITE CORE PULSE TRANSF.	FC90090010 TP41042010
QN08 QN20		4822 130 42298	TRS.	2SC536SP, 2SC2458,	HT30001000	<b>▲</b> SF01		4822 277 21824		SS02021620
QN24		4822 130 42715	TRS.	2SC3311, 2SC1740S 2SA608SP, 2SA1048,	HT10001000	▲ SH02 ▲ SH91	/01/11	4822 277 21763 4822 276 13364	SLIDE SWITCH PUSH SWITCH	SS02021240 SP01011990
QN25		4822 130 42715	TRS.	2SA1309, 2SA933S 2SA608SP, 2SA1048,	HT10001000	XD01		4822 242 72334	CRYSTAL 16.9344MHZ	JX16002260
QN91		4822 130 43818	4	2SA1309, 2SA933S 2SC2878 A OR BRANK	HT328782A0	XF01		4822 242 72066	SERAMIC VIB. CST8.0MHZ (MT) TAPING	FQ08004010
QN92		4822 130 43818	TRS.	2SC2878 A OR BRANK	HT328782A0				P126-HP CIRCUIT BOARD	
<b>▲</b> R614		4822 116 83036	P116-I	<b>RESISTORS</b> 27 Ω ± 2% 1/4W	RF02270140				P126-CAPACITORS	
▲R615 ▲R616		4822 116 83036 4822 116 83036		27 Ω ±2% 1/4W 27 Ω ±2% 1/4W	RF02270140 RF02270140	C121		4822 122 40589	CER. 0.047 µF +80%-20% 50V	DA17473110
<b>▲</b> R651	CD-67/67SE	4822 116 83036		27 Ω ±2% 1/4W	RF02270140	C124 C126		4822 124 41539	ELECT. 47 µF M 16V	OA47601620
▲R654 ▲RD01	CD-67/67SE	4822 052 10478		4.7 Ω ±5% 1/4W	RF05047140	Q101		4822 209 33992	P126-SEMICONDUCTORS IC TDA1302T SERVO PRIAMP	HC10136490
ARD04 ARF01 ARN08 ARY11	CD-67/67SE	4822 052 10478   4822 052 10478   4822 052 10478   4822 052 10478		4.7 Ω ±5% 1/4W 4.7 Ω ±5% 1/4W 4.7 Ω ±5% 1/4W 4.7 Ω ±5% 1/4W	RF05047140 RF05047140 RF05047140 RF05047140	<u>R***</u>			P116-RESISTORS(COMMON) CARBON FILM FIXED RESISTOR, ±5% 1/6W: R120	
Bakakek			CARBON R100, R R119, R	IESISTORS(COMMON) FILM FIXED RESISTOR, ± 5% 1/6W: 101, R104-R107, R111-R116, 122-R128, R131, R132, 136, R137, R141-R144, R146,		J101 J102		4822 265 41349 4822 265 41351	P126-MISCELLANEOUS  JACK TOC-L12X-A1 12P-CONNECTER  JACK ZC-015 15P-CONNECTER  P136-CIRCUIT BOARD	YJ07007950 YJ0700 <b>796</b> 0
			R161, R	501, R502, R503, R601~R612, 618, R619, R620, R655~R662,				Ì		
			R851~R	855, R901~R906, R909, R910,		C151			P136-CAPACITORS	
		Ī		D15, RD16, RD21~RD28,		C154				DF15223350
			RF51~RF	703, RF13, RF16, RF17, RF18, 757, RF61, RH01~RH12,		C980		4822 122 30103	CER. 0.022 µF +80%-20% 50V	DK18223310
			RN04~R RN15~R	H26, RN01, RN02, N07, RN09, RN10, N18, RN23, RN26~RN31, N92, RT01, RT02, RT10		J900		4822 267 31691 4822 267 31692	P136-MISCELLANEOUS  JACK HEAD PHONE HLJ0540-01-410  JACK HEAD PHONE HLJ0540-01-430	

POS.		· · · · · · · · · · · · · · · · · · ·			st, /XX:			,	·				
1	VERS.	PART NO.		DESCRIPTION		PART NO.	POS.	VERS.	PART NO.		DESCRIPT	TION	PART NO.
NO.	COLOR	( For EUROPE )				(For U/K/F)	NO.	COLOR	( For EUROPE )				(For U/K/F
			P116-M/	AIN CIRCUIT BO	ARD		C902		4822 124 41534	ELECT.	10 μF M	₫ 25V	OA10602520
			De45 01	D4017000			C903		4822 124 41535	1	100 μF M		OA10702520
C100			P116-UA	PACITORS			C904		4822 124 41535	ELECT.	100 µF N	√1 25V	OA10702520
5		4822 126 10408	CER.	220 PF		DA16221110	CD01		4822 122 32185	CER.	10 PF 5	OV BLK	DD11100300
C105							CD02		4822 122 32185		10 PF 5		DD11100300
C106 C107		4822 122 40589 4822 122 40589		0.047 µF +80%-2 0.047 µF +80%-2		DA17473110 DA17473110	CD03 CD04		4822 122 32185 4822 124 90363		10 PF 5 220 µF M		DD11100300 0A22701020
C109	1	4822 122 40588		0.022 µF		DA17223110	CD05		4822 122 40589			·80%-20% 50V	DA17473110
C110		4822 126 10513		47 PF		DA15470110	CD06		4822 122 40589	CER.		80%-20% 50V	DA17473110
C113 C114		4822 126 10364 4822 124 41539		100 PF 47 µF M 16V		DA16101110 OA47601620	CD07 CD08		4822 124 90363		220 µF M		0A22701020
U 0114		4022 124 41333	LLECT.	47 µr 101 100	i	UA4/001020	CD12		4822 122 40589 4822 122 40589			80%-20% 50V 80%-20% 50V	DA17473110
C115			İ				CD13		4822 122 40589			80%-20% 50V	DA17473110
C119		4822 122 40589	CER.	0.047 μF +80%-2	20% 50V	DA17473110	CD15	CD-57	4022 124 00202	FLECT	220 5 1	4.40).(	
C113		4822 124 41539	ELECT.	47 µF M 16V		OA47601620	CD15	CD-67/67SE	4822 124 90363 4822 124 90371		220 µF N 470 µF N		0A22701020 0A47701020
C125		4822 122 33639		1000 PF		DA16102110	CD16	CD-57	4822 124 90363		220 µF N		0A22701020
C132		4822 122 40589	1	0.047 µF +80%-2		DA17473110	CD16	CD-67/67SE	4822 124 90371		470 μF M		0A47701020
C150 C155		4822 122 40589 4822 124 41539		0.047 μF +80%-2 47 μF M 16V		DA17473110 DA47601620	CD21 CD21	CD-57 CD-67/67SE	4822 126 11559 4822 121 70544	1	120 PF ± 120 PF ±		DD15121300 0F15121540
C156		4822 124 41539		47 µF M 16V		OA47601620	CD22	CD-57	4822 126 11559		120 PF ±		DD15121340
C157	ļ	4822 122 40589	CER.	0.047 μF +80%-2	20% 50V	DA17473110	CD22	CD-67/67SE	4822 121 70544	FILM	120 PF ±		OF15121540
C150		4022 122 40500	CED	0.047	200/ 501/	DA17470110	CD23	CD-57	4822 126 11559		120 PF ±		DD15121300
C159 C601	CD-57	4822 122 40589 4822 126 11559		0.047 µF +80%-2 120 PF ± 0.5%		DA17473110 DD15121300	CD23	CD-67/67SE	4822 121 70544	LILIM	120 PF ±	IUUV	0F15121540
C601	CD-67/67SE	4822 121 70544	FILM	120 PF ± 0.5%	100V	OF15121540	CD24	CD-57	4822 126 11559	CER.	120 PF ±	50V BLK	DD15121300
C602	CD-57	4822 126 11559		120 PF ± 0.5%		DD15121300	CD24	CD-67/67SE	4822 121 70544	FILM	120 PF ±	100V	0F15121540
C602 C603	CD-67/67SE CD-57	4822 121 70544 4822 126 11559		120 PF ± 0.5% 120 PF ± 0.5%		OF15121540 DD15121300	CF01		4822 122 40589	CEB	0.047.15.76	80%-20% 50V	DA17473110
C603	CD-67/67SE	4822 121 70544		120 PF ± 0.5%		OF15121540	CF02		4822 124 41539		47 μF M		0A47601620
C604	CD-57	4822 126 11559		120 PF ± 0.5%		DD15121300	CF03		4822 124 40246		4.7 µF M		0A47506320
C604	CD-67/67SE	4822 121 70544	FILM	120 PF ± 0.5%	100V	OF15121540	CF50 CF51		4822 126 10408 4822 126 11558		220 PF	00/ 000/ 501/	DA16221110
C605	CD-67/67SE	4822 121 70437	FILM	1000 PF ± 0.5%	100V	OF15102540	CF52		4822 124 41534		υ. ι με συ 10 με Μ	0%-20% 50V 1 25V	DA17104110 OA10602520
C606	CD-67/67SE	4822 121 70437	FILM	1000 PF ± 0.5%		OF15102540	1				,	. =	
C607 C607	CD-57 CD-67/67SE	5322 122 32265 4822 121 70543	•	100 PF ± 0.5%! 100 PF ± 0.5%1		DD15101300 OF15101540	CH01 CH02	CD-67/67SE CD-67/67SE	4822 126 11069		150 PF		DA16151110
C608	CD-67/0732	5322 122 32265		100 PF ± 0.5%!		DD15101340	CH02 ▲ CH11	CD-07/073E	4822 126 11069 4822 121 43732		150 PF 0.01 µF M	1 250V	DA16151110 DF77103500
C608	CD-67/67SE	4822 121 70543		100 PF ± 0.5%1		OF15101540	CN02		4822 124 41543		1 μF M		0A10505020
C611		4000 104 10000	FLECT	100 11 751	1	0440700550	CN03		4822 124 90357	ELECT.	2.2 µF M	1 50V	0A22505020
C614		4822 124 22238	ELECT.	100 µF M 25V		OA10702550	CT01			FILM	0.1 μF J!	50\/	DF15104310
C651							CT02		4822 122 31125		4700 PF Z		DK18472310
C654	CD-67/67SE	4822 124 22277	ELECT.	470 µF M 16V	0	0A47701620	СТОЗ			CER.	2200 PF K		DK16222300
L054			1				CT04	ľ					
C655	CD-57		I EL EGT				1 6110	CD-67/67SE	4822 126 11558 4822 122 30103		0.1 µF Z 5		DA17104110
1 00		4822 124 90364		220 µF M 16V		OA22701620	CT10	CD-67/67SE	4822 122 30103		0.1 μF Z S 0.022 μF Z S		DA17104110 DK18223310
		4822 124 80123	ELECT.	220 µF M 16V A	ARS (	0A22701640	ļ			CER. <b>P116-C</b>	0.022 µF Z S	(COMMON)	
C656	CD-57	4822 124 80123 4822 124 90364	ELECT. ELECT.	220 µF M 16V A 220 µF M 16V	ARS (	0A22701640 0A22701620	C***			CER. P116-CA ELECTROI	0.022 µF Z ! APACITORS LYTIC CAPACIT	(COMMON)	
	CD-57 CD-67/67SE CD-57	4822 124 80123 4822 124 90364 4822 124 80123 4822 124 90364	ELECT. ELECT. ELECT.	220 µF M 16V A	ARS (	0A22701640	ļ			P116-CA ELECTROI ONE-WAY	0.022 µF Z S	(COMMON)	
C656 C656 C657 C657	CD-57 CD-67/67SE CD-57 CD-67/67SE	4822 124 80123 4822 124 90364 4822 124 80123 4822 124 90364 4822 124 80123	ELECT. ELECT. ELECT. ELECT. ELECT.	220 µF M 16V A 220 µF M 16V A 220 µF M 16V A 220 µF M 16V A 220 µF M 16V A	ARS (	OA22701640 OA22701620 OA22701640 OA22701620 OA22701640	ļ			P116-C/ ELECTROI ONE-WA' TOLERAN C108, C12	O 022 µF Z S APACITORS LYTIC CAPACITY Y LEAD TYPE, ICE ± 20% 27, C128, C131	50V ( <b>COMMON)</b> TOR	
C656 C656 C657 C657 C658	CD-57 CD-67/67SE CD-57 CD-67/67SE CD-57	4822 124 80123 4822 124 90364 4822 124 80123 4822 124 90364 4822 124 80123 4822 124 90364	ELECT. ELECT. ELECT. ELECT. ELECT. ELECT.	220 µF M 16V A 220 µF M 16V A	ARS (CARS (C	OA22701640 OA22701620 OA22701640 OA22701620 OA22701640 OA22701640	ļ			P116-CA ELECTROI ONE-WA' TOLERAN C108, C12 C162, CTC	O 022 µF Z 9  APACITORS LYTIC CAPACIT Y LEAD TYPE, ICE ± 20% 27, C128, C131 D1, CT03,	50V ( <b>COMMON)</b> TOR	
C656 C656 C657 C657	CD-57 CD-67/67SE CD-57 CD-67/67SE	4822 124 80123 4822 124 90364 4822 124 80123 4822 124 90364 4822 124 80123 4822 124 90364	ELECT. ELECT. ELECT. ELECT. ELECT. ELECT. ELECT.	220 µF M 16V A 220 µF M 16V A 220 µF M 16V A 220 µF M 16V A 220 µF M 16V A	ARS (CARS (C	OA22701640 OA22701620 OA22701640 OA22701620 OA22701640	ļ			P116-C/ ELECTROI ONE-WA' TOLERAN C108, C12	O 022 µF Z 9  APACITORS LYTIC CAPACIT Y LEAD TYPE, ICE ± 20% 27, C128, C131 D1, CT03,	50V ( <b>COMMON)</b> TOR	
C656 C656 C657 C657 C658 C658	CD-57 CD-67/67SE CD-57 CD-67/67SE CD-57 CD-67/67SE	4822 124 80123 4822 124 90364 4822 124 80123 4822 124 90364 4822 124 80123 4822 124 80123 4822 124 80123 5322 122 32265	ELECT. ELECT. ELECT. ELECT. ELECT. ELECT. ELECT.	220 µF M 16V A 220 µF M 16V A	ARS (0 ARS (0 ARS (0 ARS (0 ARS (0	0A22701640 0A22701620 0A22701640 0A22701620 0A22701640 0A22701620 0A22701620	C***		4822 122 30103	P116-C, ELECTROI ONE-WA' TOLERAN C108, C12 C162, CTC C605, C60	O 022 µF Z 9  APACITORS LYTIC CAPACIT Y LEAD TYPE, IGE ± 20% 27, C128, C131 D1, CT03, D6  EMICONDUC	50V (COMMON) TOR 1, C151–C154,	DK18223310
C656 C656 C657 C657 C658 C658 C659 C659	CD-57 CD-67/67SE CD-57 CD-67/67SE CD-57 CD-67/67SE CD-57 CD-67/67SE	4822 124 80123 4822 124 90364 4822 124 80123 4822 124 90364 4822 124 80123 4822 124 90364 4822 124 80123 5322 122 32265 4822 126 10364	ELECT. ELECT. ELECT. ELECT. ELECT. ELECT. ELECT. CER. CER.	220 µF M 16V A 220 µF M 16V A 100 PF ± 0.5% E	ARS (CARS CARS CARS CARS CARS CARS CARS CARS	OA22701640 OA22701620 OA22701640 OA22701620 OA22701620 OA22701620 OA22701620 OA22701640 DD15101300 DA16101110	ļ			P116-CA ELECTROI ONE-WA' TOLERAN C108, C12 C162, CTC C605, C60 P116-SE ZENER D	0 022 µF Z 9  APACITORS LYTIC CAPACIT Y LEAD TYPE, ICE ± 20% 27, C128, C131 D1, CT03, D6  EMICONDUC IODE, 4.7V	(COMMON) TOR  1, C151-C154,	
C656 C656 C657 C657 C658 C658 C659	CD-67 CD-67/67SE CD-57 CD-67/67SE CD-57 CD-67/67SE CD-57	4822 124 80123 4822 124 90364 4822 124 80123 4822 124 90364 4822 124 90364 4822 124 90364 4822 124 80123 5322 122 32265 4822 126 10364	ELECT. ELECT. ELECT. ELECT. ELECT. ELECT. ELECT. CER. CER. CER.	220 µF M 16V A 220 µF M 16V A 100 PF ± 0.5% 5	ARS CARS CARS CONTRACTOR CARS CONTRACTOR CARS CONTRACTOR CARS CONTRACTOR CARS CONTRACTOR CARS CONTRACTOR CARS CONTRACTOR CARS CONTRACTOR CARS CONTRACTOR CARS CONTRACTOR CARS CONTRACTOR CARS CONTRACTOR CARS CONTRACTOR CARS CARS CONTRACTOR CARS CARS CARS CARS CARS CARS CARS CAR	0A22701640 0A22701620 0A22701640 0A22701620 0A22701640 0A22701620 0A22701640 0A22701640 DD15101300	C***		4822 122 30103	P116-CA ELECTROI ONE-WA' TOLERAN C108, C12 C162, CTC C605, C60 P116-SE ZENER D	O 022 µF Z 9  APACITORS LYTIC CAPACIT Y LEAD TYPE, IGE ± 20% 27, C128, C131 D1, CT03, D6  EMICONDUC	(COMMON) TOR  1, C151-C154,	DK18223310
C656 C656 C657 C657 C658 C658 C659 C659	CD-57 CD-67/67SE CD-57 CD-67/67SE CD-57 CD-67/67SE CD-57 CD-67/67SE CD-57 CD-67/67SE	4822 124 80123 4822 124 90364 4822 124 80123 4822 124 90364 4822 124 90364 4822 124 90364 4822 124 80123 5322 122 32265 4822 126 10364 5322 122 32265 4822 126 10364 4822 122 30103	ELECT. ELECT. ELECT. ELECT. ELECT. ELECT. CER. CER. CER. CER. CER. CER.	220 µF M 16V A 220 µF M 16V A 220 µF M 16V A 220 µF M 16V A 220 µF M 16V A 220 µF M 16V A 220 µF M 16V A 100 PF ± 0.5% 5 100 PF 100 PF 0.022 µF +80%-20	ARS (0 AR	0A22701640 0A22701620 0A22701640 0A22701640 0A22701640 0A22701640 0A22701620 0A22701640 DD15101300 DA16101110 DD15101300 DA16101110 DC18223310	C***  D853  DF01  \$		4822 122 30103	P116-C, ELECTROI ONE-WA' TOLERAN C108, C12 C162, CTC C605, C60 P116-SE ZENER DI RD4.7ES	0 022 µF Z 9  APACITORS LYTIC CAPACIT Y LEAD TYPE, ICE ± 20% 27, C128, C131 D1, CT03, D6  EMICONDUC IODE, 4.7V	(COMMON) TOR  1, C151-C154,  CTORS  ZJ4.7A	DK18223310
C656 C656 C657 C657 C658 C658 C659 C660 C660 C801 C801	CD-57 CD-67/67SE CD-57 CD-67/67SE CD-57 CD-67/67SE CD-57 CD-67/67SE CD-57 CD-67/67SE CD-57 CD-67/67SE	4822 124 80123 4822 124 90364 4822 124 80123 4822 124 90364 4822 124 90364 4822 124 90364 4822 124 80123 5322 122 32265 4822 126 10364 5322 122 32265 4822 126 10364 4822 122 30103 4822 122 40589	ELECT. ELECT. ELECT. ELECT. ELECT. ELECT. ELECT. CER. CER. CER. CER. CER. CER. CER.	220 µF M 16V A 220 µF M 16V A 220 µF M 16V A 220 µF M 16V A 220 µF M 16V A 220 µF M 16V A 100 PF ± 0.5% 5 100 PF 100 PF 0.022 µF +80%-20 0.047 µF +80%-20	ARS (0 AR	0A22701640 0A22701620 0A22701640 0A22701640 0A22701640 0A22701620 0A22701640 0D15101300 0D15101300 0D15101300 0DA16101110 0D15101300 0DA16101110 0DA16101110 0DA16101110 0DA17473110	C***  D853  DF01  S  DF04		4822 122 30103 4822 130 33759 4822 130 32362	P116-C, ELECTROIO ONE-WA' TOLERAN C108, C12 C162, CTC C605, C60 P116-SE ZENER DI RD4.7ES	0 022 µF Z 9  APACITORS LYTIC CAPACIT Y LEAD TYPE, ICE ± 20% 27, C128, C131 01, CT03, 06  EMICONDUC IODE, 4.7V 04AZ4.7, MTZ SS254 30V 0.1	(COMMON) TOR  1, C151-C154,  CTORS  ZJ4.7A	HD30471000 HD20022210
C656 C656 C657 C657 C658 C658 C659 C659	CD-57 CD-67/67SE CD-57 CD-67/67SE CD-57 CD-67/67SE CD-57 CD-67/67SE CD-57 CD-67/67SE	4822 124 80123 4822 124 90364 4822 124 80123 4822 124 90364 4822 124 90364 4822 124 90364 4822 124 80123 5322 122 32265 4822 126 10364 5322 122 32265 4822 126 10364 4822 122 30103 4822 122 40589	ELECT. ELECT. ELECT. ELECT. ELECT. ELECT. ELECT. ELECT. CER. CER. CER. CER. CER. CER. CER.	220 µF M 16V A 220 µF M 16V A 220 µF M 16V A 220 µF M 16V A 220 µF M 16V A 220 µF M 16V A 220 µF M 16V A 100 PF ± 0.5% 5 100 PF 100 PF 0.022 µF +80%-20	ARS (CARS (C	0A22701640 0A22701620 0A22701640 0A22701640 0A22701640 0A22701640 0A22701620 0A22701640 DD15101300 DA16101110 DD15101300 DA16101110 DC18223310	C***  D853  DF01  \$		4822 130 33759 4822 130 32362 4822 130 32362 4822 130 32362	P116-C, ELECTROIO ONE-WA' TOLERAN C108, C17 C605, C60 P116-SE ZENER DI RD4.7ES DIODE 1.	0 022 µF Z 9  APACITORS LYTIC CAPACIT Y LEAD TYPE, ICE ± 20% 27, C128, C131 01, CT03, 06  EMICONDUC IODE, 4.7V 04AZ4.7, MTZ SS254 30V 0.1	(COMMON) TOR  1, C151-C154,  CTORS  ZJ4.7A	HD30471000 HD20022210 HD20022210
C656 C657 C657 C657 C658 C658 C659 C660 C660 C801 C801 C802 C802 C802	CD-57 CD-67/67SE CD-57 CD-67/67SE CD-57 CD-67/67SE CD-57 CD-67/67SE CD-57 CD-67/67SE CD-57 CD-67/67SE CD-57 CD-67/67SE CD-57 CD-67/67SE	4822 124 80123 4822 124 90364 4822 124 80123 4822 124 90364 4822 124 90364 4822 124 80123 5322 122 32265 4822 126 10364 5322 122 32265 4822 126 10364 4822 122 30103 4822 122 40589 4822 122 40589 4822 124 90366	ELECT. ELECT. ELECT. ELECT. ELECT. ELECT. ELECT. CER. CER. CER. CER. CER. CER. CER. CER	220 µF M 16V A 220 µF M 16V A 220 µF M 16V A 220 µF M 16V A 220 µF M 16V A 220 µF M 16V A 220 µF M 16V A 100 PF ± 0.5% 5 100 PF 100 PF 100 PF 0.022 µF +80%-20 0.022 µF +80%-20 0.047 µF +80%-20 220 µF 50V M	ARS (CARS (C	0A22701640 0A22701620 0A22701640 0A22701620 0A22701620 0A22701620 0A22701640 0D22701640 DD15101300 DA16101110 DD15101300 DA16101110 DX18223310 DA17473110 DA17473110 DA17473110 DA22705020	D853 DF01 S DF04 DF51 DF52		4822 122 30103 4822 130 33759 4822 130 32362	P116-C, ELECTROIO ONE-WA' TOLERAN C108, C17 C605, C60 P116-SE ZENER DI RD4.7ES DIODE 1.	0 022 µF Z 9  APACITORS LYTIC CAPACIT Y LEAD TYPE, ICE ± 20% 27, C128, C131 01, CT03, 06  EMICONDUC IODE, 4.7V 04AZ4.7, MTZ SS254 30V 0.1	(COMMON) TOR  1, C151-C154,  CTORS  ZJ4.7A	HD30471000 HD20022210
C656 C657 C657 C658 C658 C659 C659 C660 C801 C801 C801 C802 A C803 A C803	CD-57 CD-67/67SE CD-57 CD-67/67SE CD-57 CD-67/67SE CD-57 CD-67/67SE CD-57 CD-67/67SE CD-57 CD-67/67SE CD-57 CD-67/67SE CD-57 CD-67/67SE CD-57 CD-67/67SE	4822 124 80123 4822 124 90364 4822 124 80123 4822 124 90364 4822 124 90364 4822 124 80123 5322 122 32265 4822 126 10364 5322 122 32265 4822 126 10364 4822 122 30103 4822 122 40589 4822 122 40589 4822 124 90366 4822 124 90368	ELECT. ELECT. ELECT. ELECT. ELECT. ELECT. ELECT. CER. CER. CER. CER. CER. CER. CER. CER	220 µF M 16V A 220 µF M 16V A 220 µF M 16V A 220 µF M 16V A 220 µF M 16V A 220 µF M 16V A 100 PF ± 0.5% 5 100 PF 100 PF 100 PF 0.022 µF +80%-20 0.047 µF +80%-20 0.047 µF +80%-20 220 µF 50V M 470 µF 35V M	ARS (CARS (C	0A22701640 0A22701620 0A22701640 0A22701640 0A22701620 0A22701620 0A22701640 0D15101300 0DA16101110 0D15101300 0DA16101110 0DK18223310 0A17473110 0X18223310 0A17473110 0A227055020 0A47703540	D853 DF01 S DF04 DF51 DF52 DH01	CD-57	4822 130 33759 4822 130 32362 4822 130 32362 4822 130 32362 4822 130 32362	P116-C, ELECTROIO ONE-WA' TOLERAN C108, C12 C162, CTC C605, C6C P116-SE ZENER DI RD4.7ES DIODE 1: DIODE 1:	0 022 µF Z 9  APACITORS LYTIC CAPACIT Y LEAD TYPE, ICE ± 20% 27, C128, C131 01, CT03, 06  EMICONDUC IODE, 4.7V 04AZ4.7, MTZ SS254 30V 0.1 SS254 30V 0.1	(COMMON) TOR  1, C151-C154,  CTORS  ZJ4.7A  IA	HD30471000 HD20022210 HD20022210 HD20022210
C656 C657 C657 C657 C658 C658 C659 C660 C660 C801 C801 C802 C802 C802	CD-57 CD-67/67SE CD-57 CD-67/67SE CD-57 CD-67/67SE CD-57 CD-67/67SE CD-57 CD-67/67SE CD-57 CD-67/67SE CD-57 CD-67/67SE CD-57 CD-67/67SE	4822 124 80123 4822 124 90364 4822 124 80123 4822 124 90364 4822 124 90364 4822 124 80123 5322 122 32265 4822 126 10364 5322 122 32265 4822 126 10364 4822 122 30103 4822 122 40589 4822 122 40589 4822 124 90366	ELECT. ELECT. ELECT. ELECT. ELECT. ELECT. ELECT. CER. CER. CER. CER. CER. CER. CER. CER	220 µF M 16V A 220 µF M 16V A 220 µF M 16V A 220 µF M 16V A 220 µF M 16V A 220 µF M 16V A 220 µF M 16V A 100 PF ± 0.5% 5 100 PF 100 PF 100 PF 0.022 µF +80%-20 0.022 µF +80%-20 0.047 µF +80%-20 220 µF 50V M	ARS (CARS (C	0A22701640 0A22701620 0A22701640 0A22701640 0A22701640 0A22701640 0A22701620 0A22701640 DD15101300 DA16101110 DD15101300 DA16101110 DX18223310 DA17473110 DX18223310 DA17473110 DA17473110 DA22705020 DA47703540 DA22705020	D853 DF01 S DF04 DF51 DF52		4822 130 33759 4822 130 32362 4822 130 32362 4822 130 32362	P116-C, ELECTROIO ONE-WA' TOLERAN C108, C12 C162, CTC C605, C6C P116-SE ZENER DI RD4.7ES DIODE 1: DIODE 1:	0 022 µF Z 9  APACITORS LYTIC CAPACIT Y LEAD TYPE, ICE ± 20% 27, C128, C131 01, CT03, 06  EMICONDUC IODE, 4.7V 04AZ4.7, MTZ SS254 30V 0.1	(COMMON) TOR  1, C151-C154,  CTORS  ZJ4.7A  IA	HD30471000 HD20022210 HD20022210
C656 C657 C657 C658 C658 C658 C659 C660 C801 C801 C802 C802 △ C803 △ C803 △ C804 △ C804	CD-57 CD-67/67SE CD-57 CD-67/67SE CD-57 CD-67/67SE CD-57 CD-67/67SE CD-57 CD-67/67SE CD-57 CD-67/67SE CD-57 CD-67/67SE CD-57 CD-67/67SE CD-57 CD-67/67SE CD-57 CD-67/67SE	4822 124 80123 4822 124 90364 4822 124 80123 4822 124 90364 4822 124 90364 4822 124 90364 4822 124 80123 5322 122 32265 4822 126 10364 5322 122 32265 4822 126 10364 4822 122 40589 4822 122 40589 4822 124 90366 4822 124 90366 4822 124 90366 4822 124 90366 4822 124 90366 4822 124 90366 4822 124 90366	ELECT. ELECT. ELECT. ELECT. ELECT. ELECT. ELECT. CER. CER. CER. CER. CER. CER. CER. ELECT. ELECT. ELECT. ELECT. ELECT. ELECT. ELECT. ELECT. ELECT.	220 µF M 16V A 220 µF M 16V A 220 µF M 16V A 220 µF M 16V A 220 µF M 16V A 220 µF M 16V A 220 µF M 16V A 100 PF ± 0.5% 5 100 PF 100 PF 100 PF 00.047 µF +80%-20 0.047 µF +80%-20 0.047 µF +80%-20 0.047 µF +80%-20 0.047 µF 50V M 470 µF 35V M	ARS (0 ARS (0 ARS (0 C ARS (0 C C C C C C C C C C C C C C C C C C C	0A22701640 0A22701620 0A22701620 0A22701620 0A22701620 0A22701640 0A22701640 0A22701640 DD15101300 DA16101110 DC15101300 DA16101110 DC18223310 DA17473110 DA17473110 DA22705020 DA474703540 DA22705020 DA47703540	D853 DF01 S DF04 DF51 DF52 DH01 S DH10	CD-57	4822 130 33759 4822 130 32362 4822 130 32362 4822 130 32362 4822 130 32362 4822 130 32362	P116-C, ELECTROIO ONE-WA' TOLERAN C108, C12 C162, CTC C605, C6C P116-SE ZENER DI RD4.7ES DIODE 1: DIODE 1:	0 022 µF Z 9  APACITORS LYTIC CAPACIT Y LEAD TYPE, ICE ± 20% 27, C128, C131 01, CT03, 06  EMICONDUC IODE, 4.7V 04AZ4.7, MTZ SS254 30V 0.1 SS254 30V 0.1	(COMMON) TOR  1, C151-C154,  CTORS  ZJ4.7A  IA	HD30471000 HD20022210 HD20022210 HD20022210
C656 C657 C657 C658 C658 C659 C659 C660 C801 C801 C802 C802 △C803 △C803 △C803 △C804 C804	CD-57 CD-67/67SE CD-57 CD-67/67SE CD-57 CD-67/67SE CD-57 CD-67/67SE CD-57 CD-67/67SE CD-57 CD-67/67SE CD-57 CD-67/67SE CD-57 CD-67/67SE CD-57 CD-67/67SE CD-57 CD-67/67SE	4822 124 80123 4822 124 90364 4822 124 80123 4822 124 90364 4822 124 90364 4822 124 90364 4822 124 80123 5322 122 32265 4822 126 10364 4822 122 30103 4822 122 30103 4822 122 40589 4822 124 40589 4822 124 90366 4822 124 90366 4822 124 90366 4822 124 90366 4822 124 90363 4822 124 90363	ELECT. ELECT. ELECT. ELECT. ELECT. ELECT. ELECT. CER. CER. CER. CER. CER. CER. CER. ELECT. ELECT. ELECT. ELECT. ELECT. ELECT. ELECT. ELECT.	220 µF M 16V A 220 µF M 16V A 220 µF M 16V A 220 µF M 16V A 220 µF M 16V A 220 µF M 16V A 220 µF M 16V A 100 PF ± 0.5% 5 100 PF 100 PF 100 PF 0.022 µF +80%-20 0.047 µF +80%-20 0.047 µF +80%-20 0.047 µF 50V M 470 µF 35V M 100 µF M 16V	ARS (0 ARS (0 ARS (0 C ARS (0 C C C C C C C C C C C C C C C C C C C	0A22701640 0A22701620 0A22701620 0A22701620 0A22701620 0A22701620 0A22701640 0D15101300 0DA16101110 0DA15101300 0DA17473110 0DA17473110 0DA17473110 0DA17473110 0DA1747310	D853 DF01 S DF04 DF51 DF52 DH01 S DH10 DN05	CD-57	4822 130 33759  4822 130 32362  4822 130 32362  4822 130 32362  4822 130 32362  4822 130 32362	P116-C/ ELECTROIC ONE-WA' TOLERAN C108, C12 C162, CTC C605, C60 P116-SE ZENER DI RD4.7ES DIODE 11 DIODE 11 DIODE 11	0 022 µF Z 9  APACITORS LYTIC CAPACIT Y LEAD TYPE, ICE ± 20% 27, C128, C131 01, C703, 06  EMICONDUC IODE, 4.7V 04AZ4.7, MTZ SS254 30V 0.1 SS254 30V 0.1 SS254 30V 0.1	(COMMON) TOR  1, C151-C154,  CTORS  ZJ4.7A  1A  1A  1A	HD30471000 HD20022210 HD20022210 HD20022210 HD20022210
C656 C657 C657 C658 C658 C658 C659 C660 C801 C801 C802 C802 △ C803 △ C803 △ C804 △ C804	CD-57 CD-67/67SE CD-57 CD-67/67SE CD-57 CD-67/67SE CD-57 CD-67/67SE CD-57 CD-67/67SE CD-57 CD-67/67SE CD-57 CD-67/67SE CD-57 CD-67/67SE CD-57 CD-67/67SE CD-57 CD-67/67SE	4822 124 80123 4822 124 90364 4822 124 80123 4822 124 90364 4822 124 90364 4822 124 90364 4822 124 80123 5322 122 32265 4822 126 10364 4822 122 30103 4822 122 30103 4822 122 40589 4822 124 40589 4822 124 90366 4822 124 90366 4822 124 90366 4822 124 90366 4822 124 90363 4822 124 90363	ELECT. ELECT. ELECT. ELECT. ELECT. ELECT. ELECT. CER. CER. CER. CER. CER. CER. ELECT. ELECT. ELECT. ELECT. ELECT. ELECT. ELECT. ELECT. ELECT. ELECT. ELECT.	220 µF M 16V A 220 µF M 16V A 220 µF M 16V A 220 µF M 16V A 220 µF M 16V A 220 µF M 16V A 220 µF M 16V A 100 PF ± 0.5% 5 100 PF 100 PF 100 PF 00.047 µF +80%-20 0.047 µF +80%-20 0.047 µF +80%-20 0.047 µF +80%-20 0.047 µF 50V M 470 µF 35V M	ARS (0 AR	0A22701640 0A22701620 0A22701620 0A22701620 0A22701620 0A22701640 0A22701640 0A22701640 DD15101300 DA16101110 DC15101300 DA16101110 DC18223310 DA17473110 DA17473110 DA22705020 DA474703540 DA22705020 DA47703540	D853 DF01 S DF04 DF51 DF52 DH01 S DH10	CD-57	4822 130 33759 4822 130 32362 4822 130 32362 4822 130 32362 4822 130 32362 4822 130 32362	P116-C/ ELECTROIL ONE-WA' TOLERAN C108, C12 C162, CTC C605, C60 P116-SE ZENER DI DIODE 1: DIODE 1: DIODE 1: DIODE 1: DIODE 1: ZENER DI	0 022 µF Z 9  APACITORS LYTIC CAPACIT Y LEAD TYPE, ICE ± 20% 27, C128, C131 01, CT03, 06  EMICONDUC IODE, 4.7V 04AZ4.7, MTZ SS254 30V 0.1 SS254 30V 0.1 SS254 30V 0.1 SS254 30V 0.1 ODE, 5.6V	(COMMON) TOR  1, C151-C154,  CTORS  ZJ4.7A  IA  IA  A  A	HD30471000 HD20022210 HD20022210 HD20022210 HD20022210
C656 C657 C657 C658 C658 C659 C659 C660 C801 C801 C802 C802 C803 ▲ C803 ▲ C804 C804 C804	CD-57 CD-67/67SE CD-57 CD-67/67SE CD-57 CD-67/67SE CD-57 CD-67/67SE CD-57 CD-67/67SE CD-57 CD-67/67SE CD-57 CD-67/67SE CD-57 CD-67/67SE CD-57 CD-67/67SE CD-57 CD-67/67SE	4822 124 80123 4822 124 90364 4822 124 80123 4822 124 90364 4822 124 80123 4822 124 80123 5322 122 32265 4822 126 10364 5322 122 32265 4822 126 10364 4822 122 40589 4822 122 40589 4822 124 90366 4822 124 80823 4822 124 90366 4822 124 90364 4822 124 90364 4822 124 90364 4822 124 90364 4822 124 90354 4822 124 90354 4822 124 90354 4822 124 90354	ELECT. ELECT. ELECT. ELECT. ELECT. ELECT. ELECT. CER. CER. CER. CER. CER. CER. CER. CER	220 µF M 16V A 220 µF M 16V A 220 µF M 16V A 220 µF M 16V A 220 µF M 16V A 220 µF M 16V A 220 µF M 16V A 200 µF M 16V A 100 PF 100 PF 100 PF 100 PF 100 PF 100 PF 100 PF 20.022 µF +80%-20 0.022 µF +80%-20 0.022 µF +80%-20 0.047 µF +80%-20 0.047 µF +80%-20 0.047 µF +80%-20 0.047 µF +80%-20 0.047 µF +80%-20 0.047 µF 35V M 470 µF 35V M 470 µF 35V M 100 µF M 16V M 100 µF M 16V M 100 µF M 16V M	ARS (CARS (C	0A22701640 0A22701620 0A22701620 0A22701640 0A22701640 0A22701620 0A22701640 0D15101300 0DA16101110 0D15101300 0DA16101110 0DA17473110 0DA17473110 0DA22705020 0DA47701520 0DA47701520 0DA47701520 0DA47701620 0DA47701620 0DA47701620	D853 DF01 \$ DF04 DF51 DF52 DH01 \$ DH10 DN05 DN06 DN07	CD-57	4822 130 33759 4822 130 32362 4822 130 32362 4822 130 32362 4822 130 32362 4822 130 32362 4822 130 33948 4822 130 32362	P116-C/ P116-C/ P116-C/ P116-C/ CODE-C/ CODE-C/ P116-SE ZENER DI DIODE 1: DIODE 1: DIODE 1: DIODE 1: DIODE 1: DIODE 1: DIODE 1: ZENER DI DIODE 1: D	0 022 µF Z 9  APACITORS LYTIC CAPACIT Y LEAD TYPE, ICE ± 20% 27, C128, C131 11, CT03, D6  EMICONDUC IODE, 4.7V 04AZ4.7, MTZ SS254 30V 0.1  SS254 30V 0.1  SS254 30V 0.1  SS254 30V 0.1  SS254 30V 0.1  SS254 30V 0.1  SS254 30V 0.1  SS254 30V 0.1  SS254 30V 0.1  SS254 30V 0.1  SS254 30V 0.1	(COMMON) TOR  1, C151–C154,  CTORS  ZJ4.7A  1A  A  A  A  J5.6A	HD30471000 HD20022210 HD20022210 HD20022210 HD20022210 HD20022210 HD30561000 HD20022210
C656 C657 C657 C658 C658 C658 C659 C660 C801 C801 C802 C802 △ C803 △ C804 △ C804 C805 C805 C806 C806 C806 C806 C806 C806 C806 C807	CD-57 CD-67/67SE CD-57 CD-67/67SE CD-57 CD-67/67SE CD-57 CD-67/67SE CD-57 CD-67/67SE CD-57 CD-67/67SE CD-57 CD-67/67SE CD-57 CD-67/67SE CD-57 CD-67/67SE CD-57 CD-67/67SE CD-57 CD-67/67SE	4822 124 80123 4822 124 90364 4822 124 80123 4822 124 90364 4822 124 90364 4822 124 80123 5322 122 32265 4822 126 10364 5322 122 32265 4822 126 10364 4822 122 30103 4822 122 40589 4822 124 90366 4822 124 90368	ELECT. ELECT. ELECT. ELECT. ELECT. ELECT. ELECT. CER. CER. CER. CER. CER. CER. ELECT.	220 µF M 16V A 220 µF M 16V A 220 µF M 16V A 220 µF M 16V A 220 µF M 16V A 220 µF M 16V A 220 µF M 16V A 220 µF M 16V A 100 PF ± 0.5% 5 100 PF 100 PF 100 PF 100 PF 00.047 µF +80%-20 0.047 µF +80%-20 0.047 µF 50V M 470 µF 35V M 100 µF M 16V M 100 µF M 16V M 100 µF M 16V M 100 µF M 16V M 100 µF M 16V M 100 µF M 16V M 100 µF M 16V M 100 µF M 16V M 100 µF M 16V M 100 µF M 16V M 100 µF M 16V M 100 µF M 16V M 100 µF M 16V M 100 µF M 16V M 100 µF M 16V M 100 µF M 16V M 100 µF M 16V M 100 µF M 16V M	ARS (0 AR	0A22701640 0A22701620 0A22701620 0A22701620 0A22701640 0A22701620 0A22701640 0D22701640 0D22701640 0D15101300 0DA16101110 0D15101300 0DA16101110 0DX18223310 0DA17473110 0DA22705020 0DA47703540 0DA1701620 0DA47701620 0DA1701620 0DA1701620 0DA17473110	D853 DF01 S DF04 DF51 DF52 DH01 S DH00 DN05 DN06 DN07 DN23	CD-57	4822 130 33759  4822 130 32362  4822 130 32362  4822 130 32362  4822 130 32362  4822 130 32362  4822 130 32362  4822 130 32362  4822 130 32362  4822 130 32362	P116-C/ ELECTROIC ONE-WA' TOLERAN C108, C12 C162, CTC C605, C60 P116-SE ZENER DI RD4.7ES DIODE 13 DIODE 13 DIODE 13 ZENER DI DIODE 13	0 022 µF Z 9  APACITORS LYTIC CAPACIT Y LEAD TYPE, ICE ± 20% 27, C128, C131 01, C703, 06  EMICONDUC IODE, 4.7V 04AZ4.7, MTZ SS254 30V 0.1 SS254 30V 0.1 SS254 30V 0.1 SS254 30V 0.1 SS256, MTZ, SS256 30V 0.1 SS254 30V 0.1	(COMMON) TOR  1, C151-C154,  CTORS  ZJ4.7A 1A 1A 1A 1A 1A 1A 1A 1A 1A 1A 1A 1A 1A	HD30471000 HD20022210 HD20022210 HD20022210 HD20022210 HD20022210 HD20022210 HD20022210 HD20022210 HD20022210
C656 C657 C657 C658 C658 C659 C659 C660 C801 C801 C802 C802 C803 ▲ C803 ▲ C804 C804 C804	CD-57 CD-67/67SE CD-57 CD-67/67SE CD-57 CD-67/67SE CD-57 CD-67/67SE CD-57 CD-67/67SE CD-57 CD-67/67SE CD-57 CD-67/67SE CD-57 CD-67/67SE CD-57 CD-67/67SE CD-57 CD-67/67SE CD-57 CD-67/67SE	4822 124 80123 4822 124 90364 4822 124 80123 4822 124 90364 4822 124 80123 4822 124 80123 5322 122 32265 4822 126 10364 5322 122 32265 4822 126 10364 4822 122 40589 4822 122 40589 4822 124 90366 4822 124 80823 4822 124 90366 4822 124 90364 4822 124 90364 4822 124 90364 4822 124 90364 4822 124 90354 4822 124 90354 4822 124 90354 4822 124 90354	ELECT. ELECT. ELECT. ELECT. ELECT. ELECT. ELECT. CER. CER. CER. CER. CER. CER. ELECT. CER. CER. CER. CER. CER. CER. CER.	220 µF M 16V A 220 µF M 16V A 220 µF M 16V A 220 µF M 16V A 220 µF M 16V A 220 µF M 16V A 220 µF M 16V A 200 µF M 16V A 100 PF 100 PF 100 PF 100 PF 100 PF 100 PF 100 PF 20.022 µF +80%-20 0.022 µF +80%-20 0.022 µF +80%-20 0.047 µF +80%-20 0.047 µF +80%-20 0.047 µF +80%-20 0.047 µF +80%-20 0.047 µF +80%-20 0.047 µF 35V M 470 µF 35V M 470 µF 35V M 100 µF M 16V M 100 µF M 16V M 100 µF M 16V M	ARS (0 ARS (0 ARS (0 C ARS (0 C C C C C C C C C C C C C C C C C C C	0A22701640 0A22701620 0A22701620 0A22701640 0A22701640 0A22701620 0A22701640 0D15101300 0DA16101110 0D15101300 0DA16101110 0DA17473110 0DA17473110 0DA22705020 0DA47701520 0DA47701620 0DA47701620 0DA47701620 0DA47701620	D853 DF01 \$ DF04 DF51 DF52 DH01 \$ DH10 DN05 DN06 DN07	CD-57	4822 130 33759 4822 130 32362 4822 130 32362 4822 130 32362 4822 130 32362 4822 130 32362 4822 130 33948 4822 130 32362	P116-C/ ELECTROIC ONE-WA' TOLERAN C108, C12 C162, CTC C605, C60 P116-SE ZENER DI RD4.7ES DIODE 13 DIODE 13 DIODE 13 ZENER DI DIODE 13	0 022 µF Z 9  APACITORS LYTIC CAPACIT Y LEAD TYPE, ICE ± 20% 27, C128, C131 11, CT03, D6  EMICONDUC IODE, 4.7V 04AZ4.7, MTZ SS254 30V 0.1  SS254 30V 0.1  SS254 30V 0.1  SS254 30V 0.1  SS254 30V 0.1  SS254 30V 0.1  SS254 30V 0.1  SS254 30V 0.1  SS254 30V 0.1  SS254 30V 0.1  SS254 30V 0.1	(COMMON) TOR  1, C151-C154,  CTORS  ZJ4.7A 1A 1A 1A 1A 1A 1A 1A 1A 1A 1A 1A 1A 1A	HD30471000 HD20022210 HD20022210 HD20022210 HD20022210 HD20022210 HD30561000 HD20022210
C656 C657 C657 C658 C659 C659 C660 C801 C801 C801 C802 △C802 △C803 △C804 △C804 △C804  C805 C806 C806 C806 C806 C806 C806 C806 C807 C808 C808 C808	CD-57 CD-67/67SE CD-57 CD-67/67SE CD-57 CD-67/67SE CD-57 CD-67/67SE CD-57 CD-67/67SE CD-57 CD-67/67SE CD-57 CD-67/67SE CD-57 CD-67/67SE CD-57 CD-67/67SE CD-57 CD-67/67SE CD-57 CD-67/67SE	4822 124 80123 4822 124 90364 4822 124 80123 4822 124 90364 4822 124 90364 4822 124 90364 4822 124 80123 5322 122 32265 4822 126 10364 5322 122 32265 4822 126 10364 4822 122 30103 4822 122 40589 4822 124 90366 4822 124 80823 4822 124 90354 4822 124 90354 4822 124 90354 4822 124 90354 4822 124 90354 4822 124 90354 4822 124 90354 4822 124 90354 4822 124 90589 4822 122 40589 4822 122 40589 4822 124 80589 4822 124 80582 4822 124 80582 4822 124 80582	ELECT. ELECT. ELECT. ELECT. ELECT. ELECT. ELECT. CER. CER. CER. CER. CER. CER. ELECT.	220 µF M 16V A 220 µF M 16V A 220 µF M 16V A 220 µF M 16V A 220 µF M 16V A 220 µF M 16V A 220 µF M 16V A 100 PF ± 0.5% 5 100 PF	ARS (0 AR	0A22701640 0A22701620 0A22701620 0A22701640 0A22701620 0A22701640 0A22701640 0D015101300 0D16101110 0D15101300 0DA17473110 0A17473110 0A22705020 0A47703540 0A17473160 0A17473160 0A17473110 0A1747310 0A1747310 0A1747310 0A1747310	D853 DF01 \$ DF04 DF51 DF52 DH01 \$ DH10 DN05 DN06 DN07 DN23 DN24 Q102	CD-57 CD-67/67SE	4822 130 33759  4822 130 32362  4822 130 32362  4822 130 32362  4822 130 32362  4822 130 32362  4822 130 32362  4822 130 32362  4822 130 32362  4822 130 32362	P116-C/ P116-C/ ELECTROIL ONE-WA' TOLERAN C108, C12 C162, CTC C605, C60 P116-SE ZENER DI DIODE 11: DIODE 11: DIODE 11: DIODE 12: ZENER DI DIODE 13: DIODE 15: DIODE 15: DIODE 15: DIODE 15: DIODE 15:	0 022 µF Z 9  APACITORS LYTIC CAPACIT Y LEAD TYPE, ICE ± 20% 27, C128, C131 01, CT03, 06  EMICONDUC IODE, 4.7V 04AZ4.7, MTZ SS254 30V 0.1 SS254 30V 0.1 SS254 30V 0.1 ODE, 5.6V 04AZ5.6, MTZ. SS254 30V 0.1, SS254 30V 0.1, SS254 30V 0.1, SS254 30V 0.1, SS254 30V 0.1, SS254 30V 0.1,	50V (COMMON) TOR  I, C151-C154,  CTORS  ZJ4.7A IA IA IA IA IA IA IA IA IA IA IA IA IA	HD30471000 HD20022210 HD20022210 HD20022210 HD20022210 HD20022210 HD20022210 HD20022210 HD20022210 HD20022210
C656 C657 C657 C658 C659 C659 C660 C801 C801 C802 C802 C803 △ C803 △ C804 △ C804  C805 C806 C806 C806 C806 C806 C806 C806 C806	CD-57 CD-67/67SE CD-57 CD-67/67SE CD-57 CD-67/67SE CD-57 CD-67/67SE CD-57 CD-67/67SE CD-57 CD-67/67SE CD-57 CD-67/67SE CD-57 CD-67/67SE CD-57 CD-67/67SE CD-57 CD-67/67SE CD-57 CD-67/67SE	4822 124 80123 4822 124 90364 4822 124 90364 4822 124 90364 4822 124 80123 4822 124 80123 5322 122 32265 4822 126 10364 5322 122 32265 4822 126 10364 4822 124 90364 4822 124 90364 4822 124 40589 4822 124 90366 4822 124 90366 4822 124 90364 4822 124 90354 4822 124 90354 4822 124 90354 4822 124 90354 4822 124 90354 4822 124 90354 4822 124 90358 4822 124 90358 4822 124 90358 4822 124 90358 4822 124 90358 4822 124 90358 4822 124 90358 4822 124 90358	ELECT. ELECT. ELECT. ELECT. ELECT. ELECT. ELECT. ELECT. CER. CER. CER. CER. CER. CER. CER. ELECT.	220 µF M 16V A 220 µF M 16V A 220 µF M 16V A 220 µF M 16V A 220 µF M 16V A 220 µF M 16V A 220 µF M 16V A 220 µF M 16V A 100 PF ± 0.5%5 100 PF 100 PF 100 PF 100 PF 100 PF 20.047 µF +80%-20 0.047 µF +80%-20 0.047 µF 50V M 470 µF 35V M 470 µF 35V M 100 µF M 16V A 470 µF 16V M 100 µF M 16V M 0.047 µF +80%-20 0.047 µF +80%-20 0.047 µF 16V M 470 µF 16V M 0.047 µF 16V M 0.047 µF +80%-20 0.047 µF +80%-20 0.047 µF +80%-20 0.047 µF 16V M 0.047 µF 16V M 0.047 µF 16V M 0.047 µF 16V M 0.047 µF 16V M 0.047 µF 16V M	ARS (CARS (C	0A22701640 0A22701620 0A22701620 0A22701620 0A22701640 0A22701620 0A22701640 0A22701640 0D15101300 0DA16101110 0D15101300 0DA16101110 0DX18223310 0DA17473110 0DA22705020 0DA47701540 0DA47701540 0DA47701540 0DA47701620	D853 DF01 \$ DF04 DF51 DF52 DH01 \$ DH10 DN05 DN06 DN07 DN23 DN24 Q102 Q106	CD-57	4822 130 33759  4822 130 32362  4822 130 32362  4822 130 32362  4822 130 32362  4822 130 32362  4822 130 32362  4822 130 32362  4822 130 32362  4822 130 32362  4822 130 32362  4822 130 32362  4822 130 32362  4822 130 32362	P116-C/ P116-C/ P116-C/ CONE-WA' TOLERAN C108, C12 C162, CTC C605, C60  P116-SE ZENER DI DIODE 1: DIOD	0 022 µF Z 9  APACITORS LYTIC CAPACIT Y LEAD TYPE, ICE ± 20% 27, C128, C131 D1, CT03, D6  EMICONDUC IODE, 4.7V 04AZ4.7, MTZ SS254 30V 0.1 SS254 30V 0.1 SS254 30V 0.1 SS254 30V 0.1 SS254 30V 0.1 SS254 30V 0.1 DDE, 5.6V 04AZ5.6, MTZ. SS254 30V 0.1 DDECORDER SA DA7073A DUAL	50V (COMMON) TOR  I, C151–C154,  CTORS  ZJ4.7A  IA  A  A  A  A  A  A  A  A  A  A  A	HD30471000 HD20022210 HD20022210 HD20022210 HD20022210 HD20022210 HD20022210 HD20022210 HD20022210 HD20022210 HD20022210 HD20022210 HD20022210 HD20022210 HD20022210 HD20022210 HD20022210
C656 C657 C657 C658 C659 C659 C660 C801 C801 C801 C802 △C802 △C803 △C804 △C804 △C804  C805 C806 C806 C806 C806 C806 C806 C806 C807 C808 C808 C808	CD-57 CD-67/67SE CD-57 CD-67/67SE CD-57 CD-67/67SE CD-57 CD-67/67SE CD-57 CD-67/67SE CD-57 CD-67/67SE CD-57 CD-67/67SE CD-57 CD-67/67SE CD-57 CD-67/67SE CD-57 CD-67/67SE CD-57 CD-67/67SE	4822 124 80123 4822 124 90364 4822 124 90364 4822 124 90364 4822 124 80123 4822 124 80123 5322 122 32265 4822 126 10364 5322 122 32265 4822 126 10364 4822 124 90364 4822 124 90364 4822 124 40589 4822 124 90366 4822 124 90366 4822 124 90364 4822 124 90354 4822 124 90354 4822 124 90354 4822 124 90354 4822 124 90354 4822 124 90354 4822 124 90358 4822 124 90358 4822 124 90358 4822 124 90358 4822 124 90358 4822 124 90358 4822 124 90358 4822 124 90358	ELECT. ELECT. ELECT. ELECT. ELECT. ELECT. ELECT. CER. CER. CER. CER. CER. CER. ELECT.	220 µF M 16V A 220 µF M 16V A 220 µF M 16V A 220 µF M 16V A 220 µF M 16V A 220 µF M 16V A 220 µF M 16V A 100 PF ± 0.5% 5 100 PF	ARS (CARS (C	0A22701640 0A22701620 0A22701620 0A22701640 0A22701620 0A22701640 0A22701640 0D015101300 0D16101110 0D15101300 0DA17473110 0A17473110 0A22705020 0A47703540 0A17473160 0A17473160 0A17473110 0A1747310 0A1747310 0A1747310 0A1747310	D853 DF01 S DF04 DF51 DF52 DH01 S DH10 DN05 DN06 DN07 DN23 DN24 Q102 Q106 Q107	CD-67/67SE	4822 130 33759  4822 130 32362  4822 130 32362  4822 130 32362  4822 130 32362  4822 130 32362  4822 130 32362  4822 130 32362  4822 130 32362  4822 130 32362  4822 130 32362  4822 130 32362  4822 130 32362  4822 130 32362	P116-C/ ELECTROIC ONE-WA' TOLERAN C108, C12 C162, CTC C605, C60  P116-SE ZENER DI RD4.7ES  DIODE 13 DI	0 022 µF Z 9  APACITORS LYTIC CAPACIT Y LEAD TYPE, ICE ± 20% 27, C128, C131 D1, C703, D6  EMICONDUC IODE, 4.7V 04AZ4.7, MTZ SS254 30V 0.1 SS254 30V 0.1 SS254 30V 0.1 SS254 30V 0.1 SS254 30V 0.1 SS254 30V 0.1 SS254 30V 0.1 D DECORDER SA DA7073A DUAI DA7073A DUAI	COMMON) TOR  I, C151-C154,  CTORS  ZJ4.7A IA IA IA IA IA IA IA IA IA IA IA IA IA	HD30471000 HD20022210 HD20022210 HD20022210 HD20022210 HD20022210 HD20022210 HD20022210 HD20022210 HC10137490 HC10137490 HC10137490
C656 C657 C657 C658 C659 C659 C660 C801 C801 C801 C802 △ C803 △ C804 △ C804 △ C805 C806 C806 C801 C801 C805 C805 C806 C806 C806 C811 C812 △ C813 C815 △ C852 C853	CD-57 CD-67/67SE CD-57 CD-67/67SE CD-57 CD-67/67SE CD-57 CD-67/67SE CD-57 CD-67/67SE CD-57 CD-67/67SE CD-57 CD-67/67SE CD-57 CD-67/67SE CD-57 CD-67/67SE CD-57 CD-67/67SE CD-57 CD-67/67SE CD-57 CD-67/67SE CD-57 CD-67/67SE	4822 124 80123 4822 124 90364 4822 124 80123 4822 124 90364 4822 124 90364 4822 124 90364 4822 124 90364 4822 124 80123 5322 122 32265 4822 126 10364 5322 122 32265 4822 126 10364 4822 122 40589 4822 124 90366 4822 124 80823 4822 124 80823 4822 124 90354 4822 124 90354 4822 124 40589 4822 124 90354 4822 124 40589 4822 124 90354 4822 124 40589 4822 124 40589 4822 124 40589 4822 124 40589 4822 124 40589 4822 124 40589 4822 124 40589 4822 124 40589 4822 124 40589 4822 124 40589 4822 124 40589 4822 124 40589 4822 124 40589 4822 124 40589 4822 124 40589 4822 124 40589 4822 124 80773 4822 124 80773	ELECT. ELECT. ELECT. ELECT. ELECT. ELECT. ELECT. CER. CER. CER. CER. CER. CER. ELECT.	220 µF M 16V A 220 µF M 16V A 220 µF M 16V A 220 µF M 16V A 220 µF M 16V A 220 µF M 16V A 220 µF M 16V A 100 PF ± 0.5% 5 100 PF 100 PF 100 PF 100 PF 100 PF ± 0.5% 5 100 PF 0.022 µF +80%-20 0.022 µF +80%-20 0.022 µF +80%-20 0.024 µF 50V M 470 µF 35V M 220 µF 50V M 470 µF 35V M 100 µF M 16V 470 µF 16V M 100 µF M 16V M 0.047 µF 50V M	ARS (0 AR	0A22701640 0A22701620 0A22701620 0A22701620 0A22701620 0A22701640 0D22701640 0D22701640 0D215101300 0D416101110 0D15101300 0D417473110 0D417473110 0D42705020 0D47701620	D853 DF01 S DF04 DF51 DF52 DH01 S DH01 S DH07 DN05 DN06 DN07 DN23 DN24 Q102 Q106 Q107 Q108 Q605	CD-57	4822 130 33759  4822 130 32362  4822 130 32362  4822 130 32362  4822 130 32362  4822 130 32362  4822 130 32362  4822 130 32362  4822 130 32362  4822 130 32362  4822 130 32362  4822 130 32363  4822 130 32363  4822 130 32363  4822 209 61073  4822 209 61073  4822 209 61073  4822 209 61073  4822 209 61073	P116-C/ P116-C/ P116-C/ P116-C/ CONE-WA' TOLERAN C108, C12 C162, CTC C605, C60  P116-SE ZENER DI DIODE 11: DIODE 11: DIODE 12 ZENER DI DIODE 13: DIODE 15: D	0 022 µF Z 9  APACITORS LYTIC CAPACIT Y LEAD TYPE, ICE ± 20% 27, C128, C131 01, CT03, 06  EMICONDUC IODE, 4.7V 04AZ4.7, MTZ SS254 30V 0.1  SS254 30V 0.1  SS254 30V 0.1  SS254 30V 0.1  SS254 30V 0.1  DDECORDER SA DA7073A DUAL DA7073A DUAL DA7073A DUAL DA7073A DUAL	COMMON) TOR  I, C151-C154,  CTORS  ZJ4.7A  IA  A  A  A  A  A  A  A  A  A  A  A	HD30471000 HD20022210 HD20022210 HD20022210 HD20022210 HD20022210 HD20022210 HD20022210 HD20022210 HD20022210 HD20022210 HD20022210 HD20022210 HD20022210 HD20022210 HD20022210 HD20022210
C656 C657 C658 C659 C659 C659 C660 C801 C801 C801 C802 ▲ C803 ▲ C804 ▲ C804 ▲ C804  C805 C806 C806 C806 C801 C805 C806 C806 C806 C806 C811 C812 ▲ C871	CD-57 CD-67/67SE CD-57 CD-67/67SE CD-57 CD-67/67SE CD-57 CD-67/67SE CD-57 CD-67/67SE CD-57 CD-67/67SE CD-57 CD-67/67SE CD-57 CD-67/67SE CD-57 CD-67/67SE CD-57 CD-67/67SE CD-57 CD-67/67SE CD-57 CD-67/67SE CD-57 CD-67/67SE	4822 124 80123 4822 124 90364 4822 124 80123 4822 124 90364 4822 124 90364 4822 124 90364 4822 124 80123 5322 122 32265 4822 126 10364 5322 122 32265 4822 126 10364 4822 122 40589 4822 124 40382 4822 124 80823 4822 124 90354 4822 124 90354 4822 124 90354 4822 124 90354 4822 124 90354 4822 124 90354 4822 124 90354 4822 124 90354 4822 124 90355 4822 124 80773 4822 124 90355 4822 124 80772 4822 124 90355 4822 124 90355 4822 124 90355 4822 124 90355 4822 124 90355 4822 124 90355 4822 124 90355 4822 124 90355 4822 124 90355 4822 124 90355 4822 124 90355 4822 124 90355 4822 124 90355 4822 124 90355 4822 124 90355 4822 124 90355 4822 124 90355	ELECT. ELECT. ELECT. ELECT. ELECT. ELECT. ELECT. CER. CER. CER. CER. CER. CER. CER. ELECT.	220 µF M 16V A 220 µF M 16V A 220 µF M 16V A 220 µF M 16V A 220 µF M 16V A 220 µF M 16V A 220 µF M 16V A 100 PF ± 0.5% 5 100 PF	ARS (0 AR	0A22701640 0A22701620 0A22701620 0A22701620 0A22701620 0A22701640 0A22701640 0D015101300 0D16101110 0D15101300 0DA17473110 0A17473110 0A22705020 0A47703540 0A17701620 0A47701620	D853 DF01 S DF04 DF51 DF52 DH01 S DH10 DN05 DN06 DN07 DN23 DN24 Q102 Q106 Q107 Q108	CD-57	4822 130 33759  4822 130 32362  4822 130 32362  4822 130 32362  4822 130 32362  4822 130 32362  4822 130 32362  4822 130 32362  4822 130 32362  4822 130 32362  4822 130 32362  4822 130 32363  4822 209 61073  4822 209 61073  4822 209 61073  4822 209 61073  4822 209 61073  4822 209 31153	P116-C/ P116-C/ P116-C/ P116-C/ CONE-WA' TOLERAN C108, C12 C162, CTC C605, C60 P116-SE ZENER DI DIODE 1: DIODE 1: DIODE 1: DIODE 1: ZENER DI DIODE 1: ZENER DI DIODE 1: C CC C TC C TC C TC C TC C TC C TC C T	0 022 µF Z 9  APACITORS LYTIC CAPACIT Y LEAD TYPE, ICE ± 20% 27, C128, C131 01, CT03, 06  EMICONDUC IODE, 4.7V 04AZ4.7, MTZ SS254 30V 0.1 SS254 30V 0.1 SS254 30V 0.1 SS254 30V 0.1 SS254 30V 0.1 SS254 30V 0.1 DCCORDER SA DA7073A DUAL DA7073	COMMON) TOR  I, C151-C154,  CTORS  ZJ4.7A  IA  A  A  A  A  A  A  A  A  A  A  A	HD30471000 HD20022210 HD20022210 HD20022210 HD20022210 HD20022210 HD20022210 HD20022210 HC10132490 HC10137490 HC10137490 HC10137490 HC10137490 HC10137490
C656 C657 C657 C658 C659 C659 C660 C801 C801 C801 C802 △ C803 △ C804 △ C804 △ C805 C806 C806 C801 C801 C805 C805 C806 C806 C806 C811 C812 △ C813 C815 △ C852 C853	CD-57 CD-67/67SE CD-57 CD-67/67SE CD-57 CD-67/67SE CD-57 CD-67/67SE CD-57 CD-67/67SE CD-57 CD-67/67SE CD-57 CD-67/67SE CD-57 CD-67/67SE CD-57 CD-67/67SE CD-57 CD-67/67SE CD-57 CD-67/67SE CD-57 CD-67/67SE CD-57 CD-67/67SE	4822 124 80123 4822 124 90364 4822 124 80123 4822 124 90364 4822 124 90364 4822 124 90364 4822 124 80123 5322 122 32265 4822 126 10364 5322 122 32265 4822 126 10364 4822 122 40589 4822 124 40382 4822 124 80823 4822 124 90354 4822 124 90354 4822 124 90354 4822 124 90354 4822 124 90354 4822 124 90354 4822 124 90354 4822 124 90354 4822 124 90355 4822 124 80773 4822 124 90355 4822 124 80772 4822 124 90355 4822 124 90355 4822 124 90355 4822 124 90355 4822 124 90355 4822 124 90355 4822 124 90355 4822 124 90355 4822 124 90355 4822 124 90355 4822 124 90355 4822 124 90355 4822 124 90355 4822 124 90355 4822 124 90355 4822 124 90355 4822 124 90355	ELECT. ELECT. ELECT. ELECT. ELECT. ELECT. ELECT. CER. CER. CER. CER. CER. CER. ELECT.	220 µF M 16V A 220 µF M 16V A 220 µF M 16V A 220 µF M 16V A 220 µF M 16V A 220 µF M 16V A 220 µF M 16V A 100 PF ± 0.5% 5 100 PF 100 PF 100 PF 100 PF 100 PF ± 0.5% 5 100 PF 0.022 µF +80%-20 0.022 µF +80%-20 0.022 µF +80%-20 0.024 µF 50V M 470 µF 35V M 220 µF 50V M 470 µF 35V M 100 µF M 16V 470 µF 16V M 100 µF M 16V M 0.047 µF 50V M	ARS (0 AR	0A22701640 0A22701620 0A22701620 0A22701620 0A22701620 0A22701640 0D22701640 0D22701640 0D215101300 0D416101110 0D15101300 0D417473110 0D417473110 0D42705020 0D47701620	D853 DF01 S DF04 DF51 DF52 DH01 S DH01 S DH07 DN05 DN06 DN07 DN23 DN24 Q102 Q106 Q107 Q108 Q605	CD-57	4822 130 33759  4822 130 32362  4822 130 32362  4822 130 32362  4822 130 32362  4822 130 32362  4822 130 32362  4822 130 32362  4822 130 32362  4822 130 32362  4822 130 32362  4822 130 32363  4822 209 61073  4822 209 61073  4822 209 61073  4822 209 61073  4822 209 61073  4822 209 31153	P116-C/ P116-C/ P116-C/ P116-C/ CONE-WA' TOLERAN C108, C12 C162, CTC C605, C60 P116-SE ZENER DI DIODE 1: DIODE 1: DIODE 1: DIODE 1: ZENER DI DIODE 1: ZENER DI DIODE 1: C CC C TC C TC C TC C TC C TC C TC C T	0 022 µF Z 9  APACITORS LYTIC CAPACIT Y LEAD TYPE, ICE ± 20% 27, C128, C131 01, CT03, 06  EMICONDUC IODE, 4.7V 04AZ4.7, MTZ SS254 30V 0.1 SS254 30V 0.1 SS254 30V 0.1 SS254 30V 0.1 SS254 30V 0.1 SS254 30V 0.1 DCCORDER SA DA7073A DUAL DA7073	COMMON) TOR  I, C151-C154,  CTORS  ZJ4.7A  IA  A  A  A  A  A  A  A  A  A  A  A	HD30471000 HD20022210 HD20022210 HD20022210 HD20022210 HD20022210 HD20022210 HD20022210 HC10132490 HC10137490 HC10137490 HC10137490 HC10137490 HC10137490

[VERS.:VERSION, U:U.S.A, F:Japan, K:Far East, /XX:Europe]

( AEUS	.:VERSION,	U:U.S.A,	FiJapan, KiFar East, /XX	:Europe
POS.	VERS.	PART NO.	DESCRIPTION	PART NO.
NO.	COLOR	( For EUROPE )		(For U/K/F)
			PY16-FRONT CIRCUIT BOARD	
CY01		4822 122 40589	<b>PY16-CAPACITORS</b> CER. 0.047 μF +80%-20% 50V	DA17473110
DY01 DY02 DY03 DY04		4822 130 32362 4822 130 32362 4822 130 32362 4822 130 32362	DIODE 1SS254 30V 0.1A DIODE 1SS254 30V 0.1A	HD20022210 HD20022210 HD20022210 HD20022210
<u>R***</u>			PY16-RESISTORS(COMMON) CARBON FILM FIXED RESISTOR, ± 5% 1/6W: RY01	
			PY16-MISCELLANEOUS	
SY01 \$ SY24		4822 276 20508	PUSH SWITCH	SP01011280
VY01		4822 130 91287	DISPLAY UNIT 9MT131GK FTD	HQ30914410