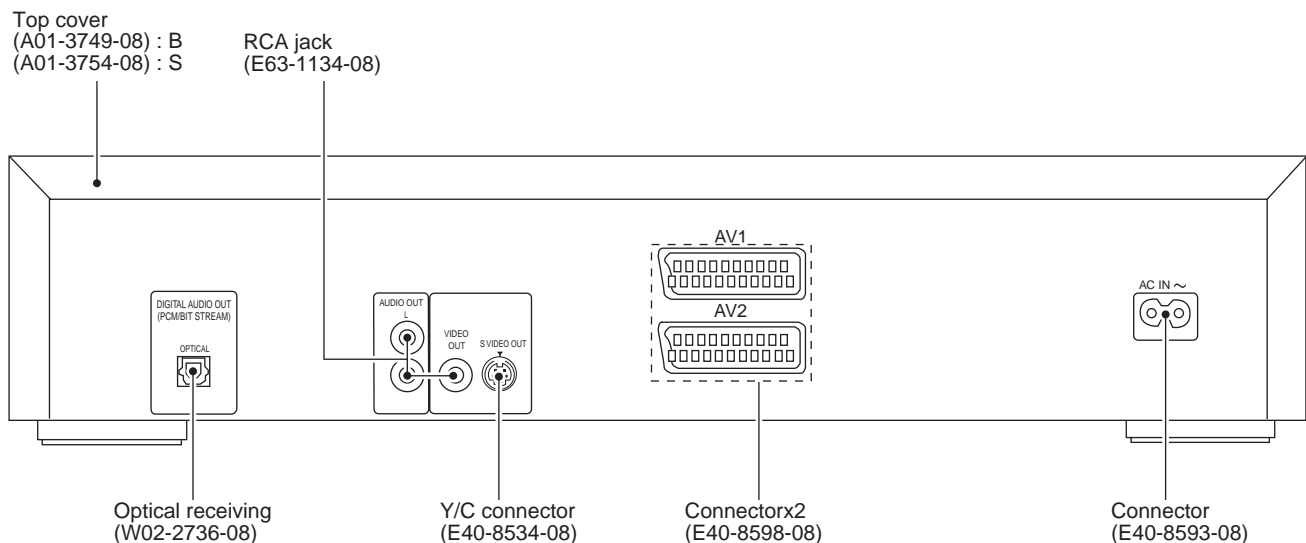
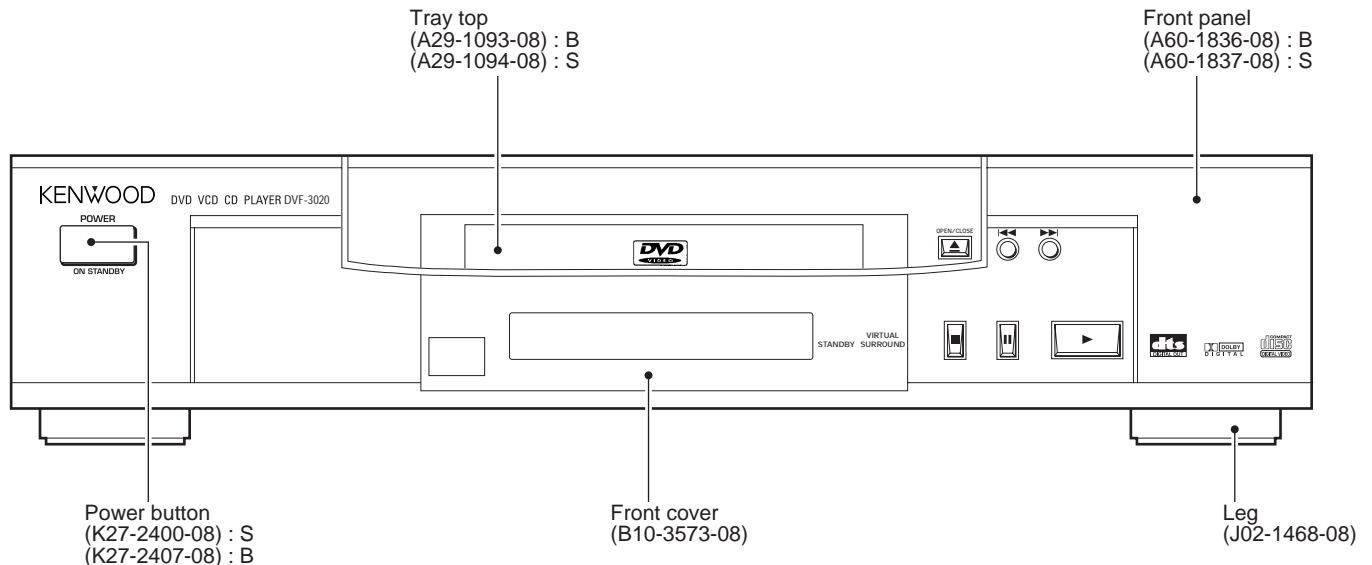


DVF-3020

SERVICE MANUAL



B: Black S: Silver

In compliance with Federal Regulations, following are reproductions of labels on, or inside the product relating to laser product safety.

KENWOOD-Crop. certifies this equipment conforms to DHHS Regulations No. 21 DFR 1040. 10, Chapter 1, Subchapter J.

DANGER : Laser radiation when open and interlock defeated.
AVOID DIRECT EXPOSURE TO BEAM

Caution : No connection of ground line if disassemble the unit. Please connect the ground line on rear panel, PCBs, Chassis and some others.



DVF-3020

CONTENTS / ACCESSORIES

Contents

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VOLTAGE CHART	10	SPECIFICATIONS	Back cover
WIRING DIAGRAM	15		

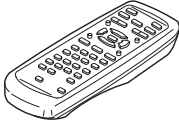
Note: There is different part in this manual as compared with a usual one because we use OEM factory's data.

Refer to DVF-5020 service manual (B51-5580-00) on Disassembly for Repair and Circuit Description.


KENWOOD MODEL	OEM MODEL
DVF-3020	DVD-A160 series

Accessories

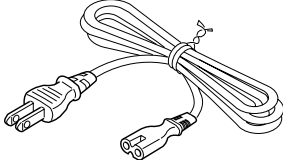
Remote control unit 1
(A70-1353-08)



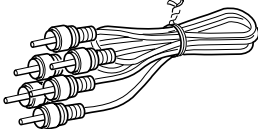
Batteries..... 2
for remote control unit [size "AA"]



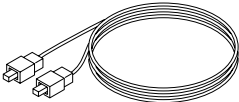
AC cord..... 1
(E30-2946-08)



Video/audio cable..... 1
(E30-2938-08)

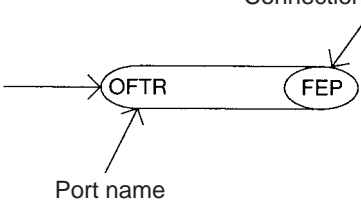


Optical cable..... 1
(B19-1615-08)



How to read the schematic diagram

Connection of "from" or "to".



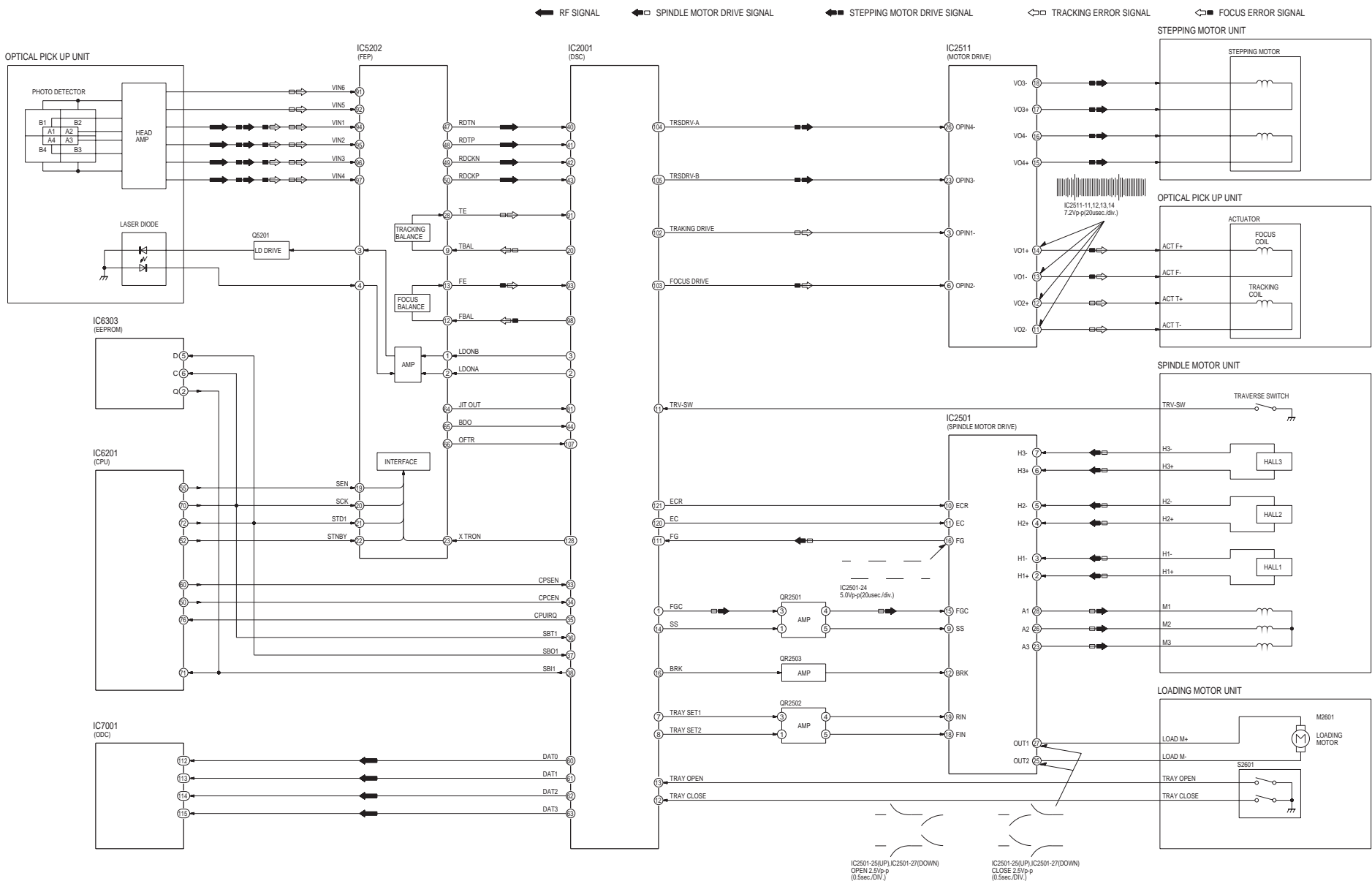
Port name

- There are some destinations in this schematic.

DVF-3020

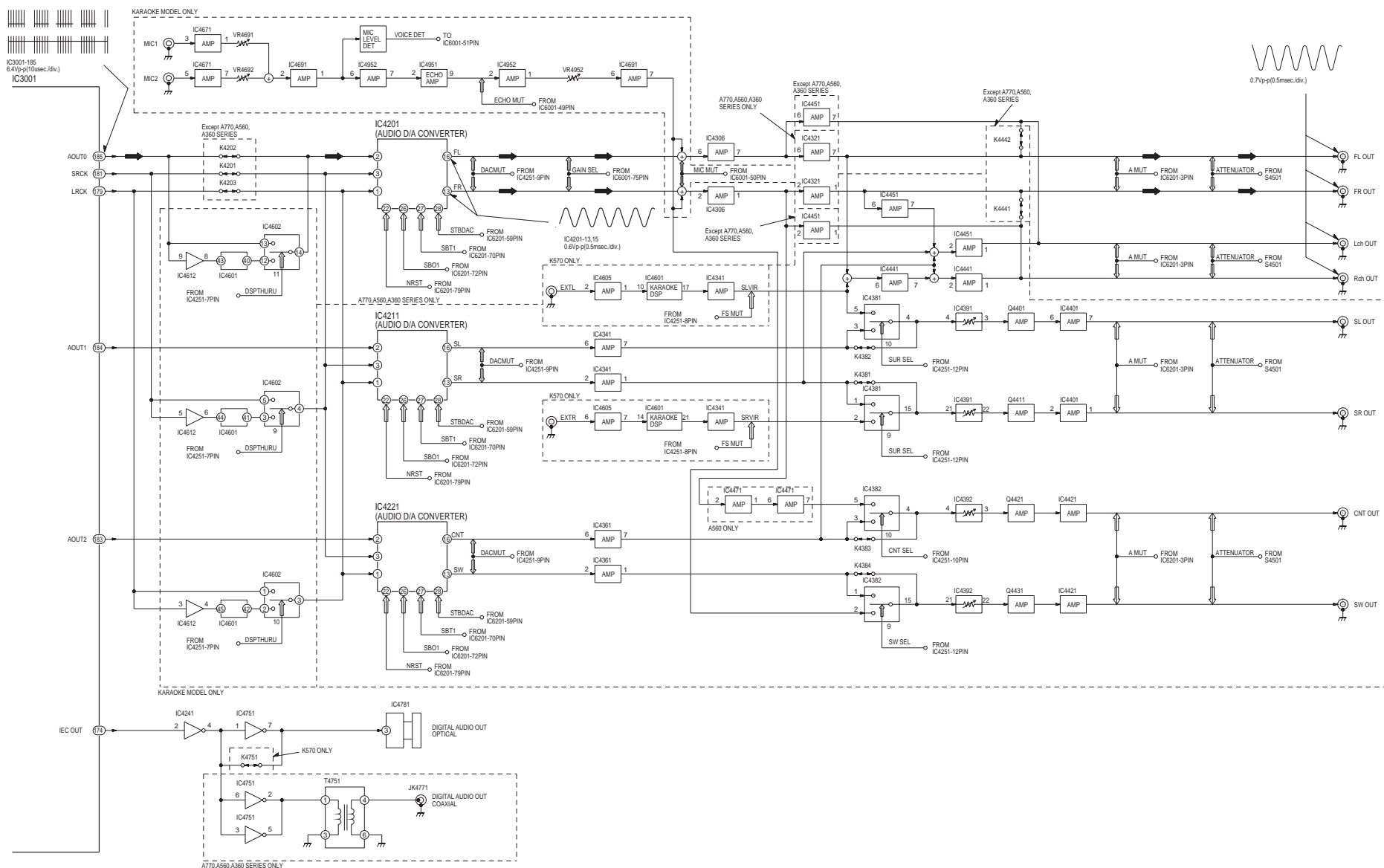


SERVO BLOCK DIAGRAM



DVF-3020





ADJUSTMENT

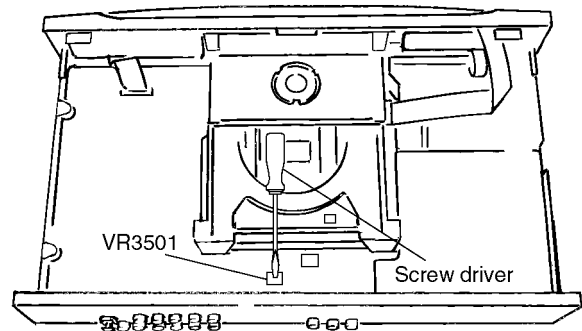
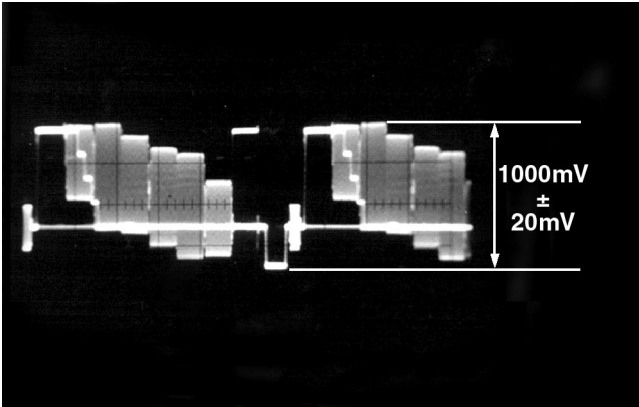
1. Video Output (Luminance Signal) Adjustment

Do this adjustment after replacing a C.B.A.

Measurement point	Adjustment point	Mode	Disc
Video output terminal	VR3501 (mother C.B.A.)	Color bar 75%	DVD disc (Color bar 75%)
Measuring equipment, tools		Adjustment value	
Screwdriver, Oscilloscope 200mV/div, 10msec/div		1000mVp-p±20mV	

Purpose: To maintain video signal output compatibility.

1. Connect the oscilloscope to the video output terminal and terminate at 75 ohms.
2. Adjust VR3501 so that the luminance signal (Y+S) level becomes 1000 mVp-p±20 mV.



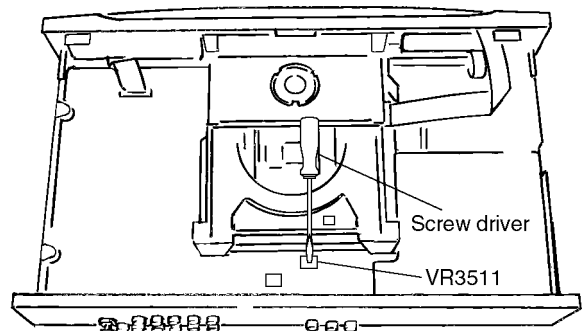
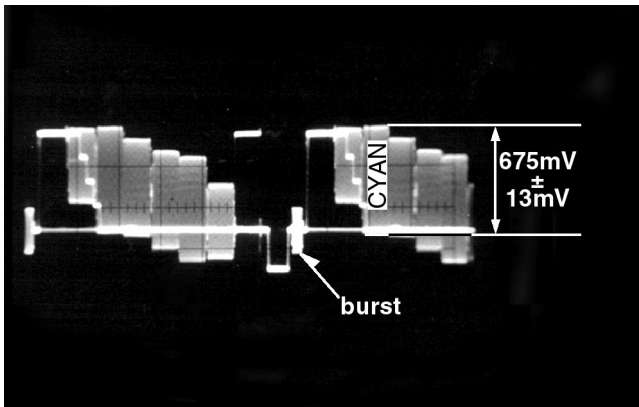
2. Video Output (Chrominance Signal) Adjustment

Do this adjustment after replacing a C.B.A.

Measurement point	Adjustment point	Mode	Disc
Video output terminal	VR3511 (mother C.B.A.)	Color bar 75%	DVD disc (Color bar 75%)
Measuring equipment, tools		Adjustment value	
Screwdriver, Oscilloscope 200mV/div, 10msec/div		675mVp-p±13mV	

Purpose: To maintain video signal output compatibility.

1. Connect the oscilloscope to the video output terminal and terminate at 75 ohms.
2. Adjust VR3511 so that the chrominance signal (C) level becomes 675 mVp-p±13 mV.



ABBREVIATION

3. Abbreviations

INITIAL/LOGO	ABBREVIATIONS
A	A0~UP ADDRESS
	ACLK AUDIO CLOCK
	AD0~UP ADDRESS BUS
	ADATA AUDIO PES PACKET DATA
	ALE ADDRESS LATCH ENABLE
	AMUTE AUDIO MUTE
	AREQ AUDIO PES PACKET REQUEST
	ARF AUDIO RF
	ASI SERVO AMP INVERTED INPUT
	ASO SERVO AMP OUTPUT
B	ASYNC AUDIO WORD DISTINCTION SYNC
	BCK BIT CLOCK (PCM)
	BCKIN BIT CLOCK INPUT
	BDO BLACK DROP OUT
	BLKCK SUB CODE BLOCK CLOCK
	BOTTOM CAP. FOR BOTTOM HOLD
	BYP BYPATH
C	BYTCK BYTE CLOCK
	CAV CONSTANT ANGULAR VELOCITY
	CBDO CAP. BLACK DROP OUT
	CD COMPACT DISC
	CDSCK CD SERIAL DATA CLOCK
	CDSRDATA CD SERIAL DATA
	CDRF CD RF (EFM) SIGNAL
	CDV COMPACT DISC-VIDEO
	CHNDATA CHANNEL DATA
	CKSL SYSTEM CLOCK SELECT
	CLV CONSTANT LINEAR VELOCITY
	COFTR CAP. OFF TRACK
	CPA CPU ADDRESS
	CPCS CPU CHIP SELECT
	CPDT CPU DATA
	CPUADR CPU ADDRESS LATCH
	CPUADT CPU ADDRESS DATA BUS
	CPUIRQ CPU INTERRUPT REQUEST
	CPRD CPU READ ENABLE
	CPWR CPU WRITE ENABLE
	CS CHIP SELECT
	CSYNCIN COMPOSITE SYNC IN
	CSYNCOUT COMPOSITE SYNC OUT
D	DACCK D/A CONVERTER CLOCK
	DEEMP DEEMPHASIS BIT ON/OFF
	DEMPH DEEMPHASIS SWITCHING
	DIG0~UP FL DIGIT OUTPUT
	DIN DATA INPUT
	DMSRCK DM SERIAL DATA READ CLOCK
	DMUTE DIGITAL MUTE CONTROL
	DO DROP OUT
	DOUT0~UP DATA OUTPUT
	DRF DATA SLICE RF (BIAS)

INITIAL/LOGO	ABBREVIATIONS
D	DRPOUT DROP OUT SIGNAL
	DREQ DATA REQUEST
	DRESP DATA RESPONSE
	DSC DIGITAL SERVO CONTROLLER
	DSLIF DATA SLICE LOOP FILTER
	DVD DIGITAL VIDEO DISC
E	EC ERROR TORQUE CONTROL
	ECR ERROR TORQUE CONTROL REFERENCE
	ENCSEL ENCODER SELECT
	ETMCLK EXTERNAL M CLOCK (81MHz/40.5MHz)
F	ETSCLK EXTERNAL S CLOCK (54MHz)
	FBAL FOCUS BALANCE
	FCLK FRAME CLOCK
	FE FOCUS ERROR
	FFI FOCUS ERROR AMP INVERTED INPUT
	FEO FOCUS ERROR AMP OUTPUT
	FG FREQUENCY GENERATOR
	FSC FREQUENCY SUB CARRIER
G	FSCK FS (384 OVER SAMPLING) CLOCK
	GND COMMON GROUNDING (EARTH)
H	HA0~UP HOST ADDRESS
	HD0~UP HOST DATA
	HINT HOST INTERRUPT
	HRXW HOST READ/WRITE
I	IECOUT IEC958 FORMAT DATA OUTPUT
	IPFRAG INTERPOLATION FLAG
	IREF I (CURRENT) REFERENCE
	ISEL INTERFACE MODE SELECT
L	LDON LASER DIODE CONTROL
	LPC LASER POWER CONTROL
	LRCK L CH/R CH DISTINCTION CLOCK
M	MA0~UP MEMORY ADDRESS
	MCK MEMORY CLOCK
	MCKI MEMORY CLOCK INPUT
	MCLK MEMORY SERIAL COMMAND CLOCK
	MDATA MEMORY SERIAL COMMAND DATA
	MDQ0~UP MEMORY DATA INPUT/OUTPUT
	MDQM MEMORY DATA I/O MASK
	MLD MEMORY SERIAL COMMAND LOAD
	MPEG MOVING PICTURE EXPERTS GROUP
O	ODC OPTICAL DISC CONTROLLER
	OFTR OFF TRACKING
	OSCI OSCILLATOR INPUT
	OSCO OSCILLATOR OUTPUT
	OSD ON SCREEN DISPLAY

ABBREVIATION

INITIAL/LOGO		ABBREVIATIONS
P	P1~UP	PORT
	PCD	CD TRACKING PHASE DIFFERENCE
	PCK	PLL CLOCK
	PDVD	DVD TRACKING PHASE DIFFERENCE
	PEAK	CAP. FOR PEAK HOLD
	PLLCLK	CHANNEL PLL CLOCK
	PLLOK	PLL LOCK
	PWMCTL	PWM OUTPUT CONTROL
	PWMDA	PULSE WAVE MOTOR DRIVE A
	PWMOA, B"	PULSE WAVE MOTOR OUT A, B"
	RE	READ ENABLE
	RFENV	RF ENVELOPE
	RFO	RF PHASE DIFFERENCE OUTPUT
	RS	(CD-ROM) REGISTER SELECT
	RSEL	RF POLARITY SELECT
	RST	RESET
	RSV	RESERVE
S	SBI0, 1	SERIAL DATA INPUT
	SBO0	SERIAL DATA OUTPUT
	SBT0, 1	SERIAL CLOCK
	SCK	SERIAL DATA CLOCK
	SCKR	AUDIO SERIAL CLOCK RECEIVER
	SCL	SERIAL CLOCK
	SCLK	SERIAL CLOCK
	SDA	SERIAL DATA
	SEG0~UP	FL SEGMENT OUTPUT
	SELCLK	SELECT CLOCK
	SEN	SERIAL PORT ENABLE
	SIN1, 2	SERIAL DATA IN
	SOUT1, 2	SERIAL DATA OUT
	SPDI	SERIAL PORT DATA INPUT
	SPDO	SERIAL PORT DATA OUTPUT
	SPEN	SERIAL PORT R/W ENABLE
	SPRCLK	SERIAL PORT READ CLOCK
	SPWCLK	SERIAL PORT WRITE CLOCK
	SQCK	SUB CODE Q CLOCK
	SQCX	SUB CODE Q DATA READ CLOCK
	SRDATA	SERIAL DATA
	SRMADR	SRAM ADDRESS BUS
	SRMDT0~7	SRAM DATA BUS 0~7
	SS	START/STOP
	STAT	STATUS
	STCLK	STREAM DATA CLOCK
	STD0~UP	STREAM DATA
	STENABLE	STREAM DATA INPUT ENABLE
	STSEL	STREAM DATA POLARITY SELECT
	STVALID	STREAM DATA VALIDITY
	SUBC	SUB CODE SERIAL
	SBCK	SUB CODE CLOCK
	SUBQ	SUB CODE Q DATA
	SYSCLK	SYSTEM CLOC

INITIAL/LOGO		ABBREVIATIONS
T	TE	TRACKING ERROR
	TIBAL	BALANCE CONTROL
	TID	BALANCE OUTPUT 1
	TIN	BALANCE INPUT
	TIP	BALANCE INPUT
	TIS	BALANCE OUTPUT 2
	TPSN	OP AMP INPUT
	TPSO	OP AMP OUTPUT
	TPSP	OP AMP INVERTED INPUT
	TRCRS	TRACK CROSS SIGNAL
V	TRON	TRACKING ON
	TRSON	TRAVERSE SERVO ON
	VBANK	V BLANKING
	VCC	COLLECTOR POWER SUPPLY VOLTAGE
	VCDCONT	VIDEO CD CONTROL (TRACKING BALANCE)
	VDD	DRAIN POWER SUPPLY VOLTAGE
	VFB	VIDEO FEED BACK
	VREF	VOLTAGE REFERENCE
	VSS	SOURCE POWER SUPPLY VOLTAGE
	W	WAIT
X	WDCK	WORD CLOCK
	WEH	WRITE ENABLE HIGH
	WSR	WORD SELECT RECEIVER
	X	X'TAL
	XALE	X ADDRESS LATCH ENABLE
	XAREQ	X AUDIO DATA REQUEST
	XCDROM	X CD ROM CHIP SELECT
	XCS	X CHIP SELECT
	XCSYNC	X COMPOSITE SYNC
	XDS	X DATA STROBE
	XHSYNCO	X HORIZONTAL SYNC OUTPUT
	XHINT	XH INTERRUPT REQUEST
	XI	X'TAL OSCILLATOR INPUT
	XINT	X INTERRUPT
	XMW	X MEMORY WRITE ENABLE
	XO	X'TAL OSCILLATOR OUTPUT
	XRE	X READ ENABLE
	XSRMCE	X SRAM CHIP ENABLE
	XSRMOE	X SRAM OUTPUT ENABLE
	XSRMWE	X SRAM WRITE ENABLE
	XVCS	X V-DEC CHIP SELECT
	XVDS	X V-DEC CONTROL BUS STROBE
	XVSYNCO	X VERTICAL SYNC OUTPUT

VOLTAGE CHART

4. VOLTAGE CHART

4-1 POWER SUPPLY C.B.A.

IC

IC1021

	①	②	③	④	⑤	⑥	⑦
STOP	-26.0	0	0	0	17.0	0.5	0.2
PLAY	-26.0	0	0	0	17.0	0.5	0.2

IC1101

	A	K	R
STOP	0	3.9	2.5
PLAY	0	3.9	2.5

IC1121

	①	②	③	④
STOP	5.1	3.3	0	3.4
PLAY	5.1	3.3	0	3.4

IC1151

	①	②	③	④	⑤
STOP	0	3.4	8.9	8.9	12.5
PLAY	0	3.4	8.9	8.9	12.5

TRANSISTOR

Q1041

	①	②	③	④
STOP	5.2	4.1	0.5	16.6
PLAY	5.2	4.1	0.5	16.6

Q1111

	S	D	G
STOP	5.1	5.1	0
PLAY	5.1	5.1	0

TRANSISTOR & RESISTOR

QR1111

	E	C	B
STOP	0	0	3.4
PLAY	0	0	3.4

4-2 MODULE C.B.A.

IC

IC2001

	①	②	③	④	⑤	⑥	⑦	⑧	⑨	⑩	⑪	⑫	⑬	⑭	⑮	⑯	⑰	⑱	⑲	⑳	㉑	㉒	㉓	㉔	㉕	㉖	㉗	㉘	㉙	㉚
STOP	3.1	0	0	0	3.1	0	3.1	3.1	0	3.1	3.1	0	0.1	0.1	0	3.1	0	0.1	0.1	1.6	1.6	0.1	1.6	1.6	1.6	1.6	0	3.1	0	1.6
PLAY	3.1	0	0	0	3.1	0	3.1	3.1	0	3.1	3.1	0	3.1	0	3.1	0	0	3.1	1.5	1.8	1.5	1.8	1.5	1.5	1.5	1.5	0	3.1	0	1.6
	㉛	㉜	㉝	㉞	㉟	㊱	㊲	㊳	㊴	㊵	㊶	㊷	㊸	㊹	㊺	㊻	㊼	㊽	㊾	㊿	①	②	③	④	⑤	⑥	⑦	⑧	⑨	⑩
STOP	0.1	0.9	0	3.1	0	0	0	0	0	0	1.6	0	0	0.2	0	0	0	0	0	0	0	0	0	0	3.1	0	0	0	0	1.5
PLAY	0	0	3.1	3.1	3.0	0	0	0	0	0	1.6	1.5	0	0.2	0	0	0	0	0	0	0	0	0	3.1	0	0	1.5	0	3.1	0
	⑪	⑫	⑬	⑭	⑮	⑯	⑰	⑱	⑲	⑳	㉑	㉒	㉓	㉔	㉕	㉖	㉗	㉘	㉙	㉚	㉛	㉜	㉝	㉞	㉟	㊱	㊲	㊳	㊴	㊵
STOP	0.2	1.5	0.2	0.2	0	0	0	0	3.1	3.1	1.5	0	0	3.1	0	0	1.4	0	0	0	1.3	0	0	0	1.4	0	1.4	0	1.4	0.6
PLAY	0	0.1	1.5	1.5	0	0	0	0	3.1	3.1	1.4	0.1	0	3.1	0.1	0.5	0.1	2.1	3.1	0.1	1.1	1.4	0.1	0.1	0.1	1.4	1.3	2.1	1.4	0.6
	㊶	㊷	㊸	㊹	㊺	㊻	㊼	㊽	㊾	㊿	①	②	③	④	⑤	⑥	⑦	⑧	⑨	⑩	⑪	⑫	⑬	⑭	⑮	⑯	⑰	⑱	⑲	⑳
STOP	1.4	1.4	1.4	1.4	0	0	3.1	0.1	0.1	1.6	0.1	1.4	1.4	1.4	1.4	3.1	0.1	0.1	0.1	1.5	0.1	0	0	3.1	0.1	0	0.1	1.4	0	1.6
PLAY	1.4	1.4	1.4	1.2	1.2	0	3.1	1.5	1.9	1.6	1.4	1.3	1.4	1.6	0.3	3.1	0.2	1.4	0.2	0.2	1.4	0	0	3.1	2.3	0	1.2	1.4	0	1.5
	㉛	㉜	㉝	㉞	㉟	㊱	㊲	㊳	㊴	㊵	㊶	㊷	㊸	㊹	㊺	㊻	㊼	㊽	㊾	㊿	①	②	③	④	⑤	⑥	⑦	⑧	⑨	⑩
STOP	0.1	0	0.1	0.4	0.1	0.1	0	3.1																						
PLAY	1.6	0	0	0.6	0	0	0	0																						

IC2501

	①	②	③	④	⑤	⑥	⑦	⑧	⑨	⑩	⑪	⑫	⑬	⑭	⑮	⑯	⑰	⑱	⑲	⑳	㉑	㉒	㉓	㉔	㉕	㉖	㉗	㉘	㉙	㉚
STOP	0	2.2	5.0	5.0	5.0	5.0	5.0	5.0	0	2.1	2.1	0	5.0	0	2.2	2.2	0.6	0.1	0	0	8.9	8.9	2.2	2.2	2.2	2.2	2.3	2.1	0	0
PLAY	0.3	2.9	2.9	0.3	2.9	2.9	2.9	0.8	3.5	2.1	2.1	0	4.9	0	0	0.3	0.6	0	0.3	0.3	8.8	8.8	7.2	0.3	0	7.2	0	7.2	0	0

IC2511

	①	②	③	④	⑤	⑥	⑦	⑧	⑨	⑩	⑪	⑫	⑬	⑭	⑮	⑯	⑰	⑱	⑲	⑳	㉑	㉒	㉓	㉔	㉕	㉖	㉗	㉘	㉙	㉚
STOP	0.1	1.4	1.4	1.4	0.1	0.1	1.4	0	2.4	4.9	0.1	0.1	0.1	0.4	5.8	2.2	5.8	2.3	8.9	2.4	0	1.4	1.4	1.4	1.4	1.4	1.4	8.9	0	0
PLAY	1.4	0.8	1.4	1.5	1.3	1.3	0.7	0	3.1	4.9	2.5	2.5	0.5	2.7	3.2	5.1	3.2	1.2	8.8	3.1	0	1.2	1.4	1.4	1.4	1.2	1.4	8.8	0	0

VOLTAGE CHART

IC3001

	①	②	③	④	⑤	⑥	⑦	⑧	⑨	⑩	⑪	⑫	⑬	⑭	⑮	⑯	⑰	⑱	⑲	⑳	㉑	㉒	㉓	㉔	㉕	㉖	㉗	㉘	㉙	㉚	
STOP	0	3.1	3.1	3.1	0	3.1	0	3.1	3.1	3.1	3.1	3.1	0	3.1	0	3.1	3.1	0	0	3.1	3.1	3.1	3.1	3.1	0	2.8	2.8	3.1	2.3	0	
PLAY	0	2.7	2.6	3.1	2.6	2.6	0	0	0	3.1	2.6	2.5	0	2.5	0	3.1	2.5	2.6	0	2.5	2.6	3.1	2.6	2.7	0	2.2	0	3.1	2.0	2.0	
	㉛	㉜	㉝	㉞	㉟	㊱	㊲	㊳	㊴	㊵	㊶	㊷	㊸	㊹	㊺	㊻	㊼	㊽	㊾	㊿	①	②	③	④	⑤	⑥	⑦	⑧	⑨	⑩	
STOP	0	2.5	2.5	3.1	2.6	2.6	0.1	0.1	0.1	3.1	2.5	0.1	0	2.5	0.1	0	3.1	0.1	0.1	0	3.1	2.7	3.1	0	3.1	3.1	2.7	3.1	3.1	3.0	0
PLAY	0	2.0	0	3.1	2.0	0	0	1.8	0	3.1	1.8	2.0	0	0	2.0	3.1	0.2	2.2	0	3.1	2.0	3.1	0	3.0	1.4	2.0	3.1	2.9	3.0	0	
	⑪	⑫	⑬	⑭	⑮	⑯	⑰	⑱	⑲	⑳	㉑	㉒	㉓	㉔	㉕	㉖	㉗	㉘	㉙	㉚	㉛	㉜	㉝	㉞	㉟	㊱	㊲	㊳	㊴	㊵	㊶
STOP	3.1	3.0	3.1	0	0	1.5	0	0	3.1	0	3.1	0	0	3.1	1.4	0	0	0	0	3.1	0	0	0	1.5	0	3.1	0	0.1	0	1.2	
PLAY	3.1	2.8	3.1	1.5	1.5	1.5	3.1	0	3.1	1.4	3.1	0	1.4	3.1	0	1.5	0	0	0	3.1	1.3	0	0	1.5	0	3.1	1.7	0.1	0	1.6	
	㊷	㊸	㊹	㊺	㊻	㊼	㊽	㊾	㊿	①	②	③	④	⑤	⑥	⑦	⑧	⑨	⑩	⑪	⑫	⑬	⑭	⑮	⑯	⑰	⑱	⑲	⑳	㉑	㉒
STOP	1.5	3.1	4.7	3.1	0	1.5	0	0	0	0	0.1	0	0.1	3.1	0	2.4	2.4	0	5.0	2.4	2.4	2.3	3.1	3.1	2.4	0	5.0	0	0	5.0	
PLAY	1.5	3.1	4.7	3.1	0	1.5	0	0	0	0	0	0	0	3.1	0	0	0.3	0	4.9	0.1	0.3	2.2	0.3	3.1	0.2	0.2	2.6	2.6	2.6	2.6	
	㉓	㉔	㉕	㉖	㉗	㉘	㉙	㉚	㉛	㉜	㉝	㉞	㉟	㊱	㊲	㊳	㊴	㊵	㊶	㊷	㊸	㊹	㊺	㊻	㊼	㊽	㊾	㊿	①	②	③
STOP	0	5.0	3.1	0	2.4	3.1	3.1	3.1	3.1	3.1	0	2.4	2.9	2.4	3.1	1.5	0	2.4	2.3	2.4	2.4	2.7	2.7	2.8	3.1	2.7	2.8	2.8	2.9		
PLAY	0.2	0.2	0.2	0	3.1	3.1	3.1	0.3	3.1	2.4	0	3.1	2.7	3.1	3.1	1.5	0	0.2	0.2	1.8	1.9	2.4	2.3	2.5	3.1	2.4	2.6	2.5	2.6		
	㉛	㉜	㉝	㉞	㉟	㊱	㊲	㊳	㊴	㊵	㊶	㊷	㊸	㊹	㊺	㊻	㊼	㊽	㊾	㊿	①	②	③	④	⑤	⑥	⑦	⑧	⑨	⑩	
STOP	2.9	2.7	2.7	2.8	2.3	0	2.8	2.8	2.8	2.8	1.1	0.6	0.6	0.6	1.6	0.7	0.3	1.2	3.1	1.5	0	3.1	2.9	1.6	0	2.3	2.3	3.1	1.6	0	
PLAY	2.6	0.1	2.4	2.5	2.5	0	2.5	2.5	2.6	2.6	0.7	0.7	0.6	0.5	1.1	0.8	0.8	1.6	3.1	1.5	0	3.0	2.9	1.5	0	0.4	1.4	3.1	1.5	0	
	㉛	㉜	㉝	㉞	㉟	㊱	㊲	㊳	㊴	㊵	㊶	㊷	㊸	㊹	㊺	㊻	㊼	㊽	㊾	㊿	①	②	③	④	⑤	⑥	⑦	⑧	⑨	⑩	
STOP	1.5	3.1	0	0	0	1.4	1.5	0	0	0.1	3.2	3.3	1.6	0.3	2.6	3.2	3.3	1.7	1.8	2.7	3.2	3.3	1.7	1.7	2.2	0.4	0	0			
PLAY	1.5	3.1	0	0	1.1	1.4	1.5	0	0	0	3.1	3.3	1.6	1.8	2.6	3.0	3.3	1.6	1.8	2.6	3.0	3.3	1.6	1.6	2.2	0.6	0	0			

IC3051

	①	②	③	④	⑤	⑥	⑦	⑧	⑨	⑩	⑪	⑫	⑬	⑭	⑮	⑯	⑰	⑱	⑲	⑳	㉑	㉒	㉓	㉔	㉕	㉖	㉗	㉘	㉙	㉚
STOP	3.1	2.8	2.5	0	2.5	2.6	3.1	2.7	2.6	0	2.5	0.1	3.1	2.7	3.1	0.1	0.1	0.2	0.2	0	0	0	0	1.5	0.2	0	2.1	2.1	2.1	2.1
PLAY	3.1	2.5	2.5	0	2.3	2.2	3.1	2.5	2.4	0	2.4	2.5	3.1	0.3	3.1	3.0	2.9	2.8	0.3	0	0.3	0.3	0	0.3	3.1	0.2	1.3	0.2	0.2	0.2
	㉛	㉜	㉝	㉞	㉟	㊱	㊲	㊳	㊴	㊵	㊶	㊷	㊸	㊹	㊺	㊻	㊼	㊽	㊾	㊿	①	②	③	④	⑤	⑥	⑦	⑧	⑨	⑩
STOP	2.2	2.2	2.2	3.1	1.5	2.7	2.2	3.1	2.2	2.5	0	2.2	2.1	3.1	2.2	2.2	0	2.2	2.2	0										
PLAY	0	0.1	0.1	3.1	1.5	2.4	0.2	3.1	2.5	2.4	0	2.3	2.3	3.1	2.5	2.4	0	2.4	0.3	0										

IC3071

	①	②	③	④	⑤	⑥
STOP	4.9	0	1.3	3.3	0	4.9
PLAY	4.9	0	1.3	3.3	0	4.9

IC4241

	①	②	③	④	⑤
STOP	0	1.6	0	2.5	5.0
PLAY	1.2	1.5	0	2.5	4.9

IC5201

	①	②	③	④	⑤
STOP	0	4.9	1.3	2.2	0
PLAY	0	4.9	3.3	1.6	0

IC5202

	①	②	③	④	⑤	⑥	⑦	⑧	⑨	⑩	⑪	⑫	⑬	⑭	⑮	⑯	⑰	⑱	⑲	⑳	㉑	㉒	㉓	㉔	㉕	㉖	㉗	㉘	㉙	㉚
STOP	0	0.1	0.1	0	1.6	1.6	1.8	0.1	0.1	1.4	0.8	0.1	1.4	0.1	0.1	0.1	0.1	0.1	3.1	0.1	0.1	3.1	0.1	4.9	0.1	1.2	0	0	1.4	0.1
PLAY	0.2	3.1	3.3	0.5	1.6	1.6	1.8	2.1	1.6	1.3	0.8	1.3	0.3	0.3	0.6	0.3	0.3	0	0.3	0.3	3.1	3.1	0.3	0.3	0	0.2	0.2	0.3	0.3	0.3
	㉛	㉜	㉝	㉞	㉟	㊱	㊲	㊳	㊴	㊵	㊶	㊷	㊸	㊹	㊺	㊻	㊼	㊽	㊾	㊿	①	②	③	④	⑤	⑥	⑦	⑧	⑨	⑩
STOP	0	0	1.4	0	0	0	0	0	0	0	0	0	0	4.9	0	0	0.1	0.1	1.6	0.1	3.1	0	4.9	0	4.9	0	0	2.2	2.5	0
PLAY	0.3	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.3	3.8	0.3	0.2	2.4	4.9	0	0	0.1	0.2	0.1	1.5	3.1	0.3	4.8	0	4.8	0.5	1.2	2.2	2.0	2.0
	㉛	㉜	㉝	㉞	㉟	㊱	㊲	㊳	㊴	㊵	㊶	㊷	㊸	㊹	㊺	㊻	㊼	㊽	㊾	㊿	①	②	③	④	⑤	⑥	⑦	⑧	⑨	⑩
STOP	0	1.6	0	1.3	0.2	0	1.6	1.4	0.1	0.1	2.2	0.1	0.1	0.1	3.4	3.4	0.1	0	2.1	2.1	4.9	0.1	2.2	3.4	0.1	2.0	2.1	1.4	0.1	0.1
PLAY	1.5	1.6	0	1.1	0.2	0.2	1.6	1.4	1.8	2.0	2.3	2.3	2.2	2.9	0.3	3.6	1.1	2.1	2.1	1.3	4.8	1.4	1.3	3.6	3.4	2.0	1.4	1.3	1.3	1.2
	㉛	㉜	㉝	㉞	㉟	㊱	㊲	㊳	㊴	㊵	㊶	㊷	㊸	㊹	㊺	㊻	㊼	㊽	㊾	㊿	①	②	③	④	⑤	⑥	⑦	⑧	⑨	⑩
STOP	0.1	0.1	4.9	2.1	0.1	0.1	0.1	0.1	2.2	0.1																				
PLAY	1.3	2.0	4.8	2.0	2.0	1.3	2.0	2.1	1.3	1.3																				

IC6201

	①	②	③	④	⑤	⑥	⑦	⑧	⑨	⑩	⑪	⑫	⑬	⑭	⑮	⑯	⑰	⑱	⑲	⑳	㉑	㉒	㉓	㉔	㉕	㉖	㉗	㉘	㉙	㉚
STOP	3.1	2.9	0	0	0	0	0	2.7	3.3	3.3	0	0	1.7	2.4	0	2.3	3.1	1.5	0	0	3.1	3.1	1.4	3.1	0	2.5	2.5	2.5	2.3	0
PLAY	3.1	2.7	3.1	3.1	0	0	3.1	2.5	3.3	0	0	3.1	1.0	0	0	1.9	3.1	1.5	0	0	0	0	1.4	3.1	3.1	1.8	2.0	2.2	0	0
	㉛	㉜	㉝	㉞	㉟	㊱	㊲	㊳	㊴	㊵	㊶	㊷	㊸	㊹	㊺	㊻	㊼	㊽	㊾	㊿	①	②	③	④	⑤	⑥	⑦	⑧	⑨	⑩
STOP	2.2	2.3	0	3.1	2.1	2.8	2.8	2.8	2.0	2.0	2.0	0	0.1	0	0	0	0	0	0	3.1	0.2	3.1	3.1	3.1	3.1	3.1	0.3	3.1	3.1	3.1
PLAY	0.6	0.3	0.3	3.1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3.1	3.1	3.1	3.1	3.1	3.1	3.1	0	0.3	3.1	0.3
	㉛	㉜	㉝	㉞	㉟	㊱	㊲	㊳	㊴	㊵	㊶	㊷	㊸	㊹	㊺	㊻	㊼	㊽	㊾	㊿	①	②	③	④	⑤	⑥	⑦	⑧	⑨	⑩
STOP	0	1.6	3.1	0.3	0.3	3.1	2.7	0.3	2.6	3.1	3.1	3.1	0.3	0.3	0.3	3.1	3.1	0	0	3.1	0.2	0.2	3.1	0.2	3.1	0.2	0.2	0.3	0.3	0.3
PLAY	0.3	1.4	0.3	0	0	3.1	3.1	3.1	0.1	0.1	3.1	3.1	3.1	3.1	0.1	3.1	0.1	0.1	0.1	0.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1
	㉛	㉜	㉝	㉞	㉟	㊱	㊲	㊳	㊴	㊵	㊶	㊷	㊸	㊹	㊺	㊻	㊼	㊽	㊾	㊿	①	②	③	④	⑤	⑥	⑦	⑧	⑨	⑩
STOP	3.1	0	0.3	0.3	3.1	0.2	0.2	0.2	3.1	3.1																				
PLAY	3.1	0	3.1	3.1	3.1	0.1	3.1	3.1	3.1	3.1																				

DVF-3020

VOLTAGE CHART

IC6301

	①	②	③	④	⑤
STOP	0	0	0	3.1	3.1
PLAY	0	0	0	3.1	3.1

IC6303

	①	②	③	④	⑤	⑥	⑦	⑧
STOP	3.1	3.1	3.1	0	3.1	3.1	3.1	3.1
PLAY	3.1	3.1	3.1	0	3.1	3.1	3.1	3.1

IC6302

	①	②	③	④	⑤	⑥	⑦	⑧	⑨	⑩	⑪	⑫	⑬	⑭	⑮	⑯	⑰	⑱	⑲	⑳	㉑	㉒	㉓	㉔	㉕	㉖	㉗	㉘	㉙	㉚
STOP	1.8	2.7	2.8	2.8	1.8	2.0	0.1	1.9	0.1	0	3.1	3.1	0	0	0.1	0	0	2.1	0	2.4	2.3	0.1	0.1	2.3	2.7	2.7	0	0	2.7	2.7
PLAY	1.8	2.5	2.6	1.8	1.1	1.7	1.8	1.5	1.7	1.7	3.1	1.7	1.8	1.7	4.0	1.7	0.8	1.8	1.8	2.1	1.9	2.7	2.8	1.8	2.7	0.3	0	0	2.9	2.9
	㉛	㉜	㉝	㉞	㉟	㊱	㊲	㊳	㊴	㊵	㊶	㊷	㊸	㊹	㊺	㊻	㊼	㊽	㊾	㊿										
STOP	2.7	2.7	2.8	2.8	0	2.8	0	0	0	2.9	2.8	0	0	0	0	3.1	0													
PLAY	2.9	2.9	2.9	0.3	0.3	2.9	0.3	3.0	2.9	2.9	2.9	3.0	2.9	3.0	3.0	0	3.1	2.3												

IC6501

	①	②	③	④	⑤	⑥	⑦	⑧	⑨	⑩	⑪	⑫	⑬	⑭	⑮	⑯
STOP	0	3.1	0	0	0	0	0	0	1.5	3.2	0	0	3.2	1.5	3.1	3.1
PLAY	0	3.1	0	1.1	0	1.2	1.2	1.4	1.2	3.2	1.2	1.2	3.2	1.5	3.1	3.1

IC6511

	①	②	③	④	⑤	⑥
STOP	4.9	1.1	1.2	3.3	0	4.9
PLAY	4.9	0	1.2	3.3	0	4.9

IC6521

	①	②	③	④	⑤	⑥	⑦	⑧
STOP	1.4	1.5	1.4	0	1.4	3.1	0	2.4
PLAY	1.4	1.1	1.4	0	1.4	3.1	0	3.0

IC6522

	①	②	③	④	⑤	⑥	⑦	⑧
STOP	1.4	2.3	1.3	0	1.3	3.0	3.0	3.0
PLAY	1.4	1.3	1.3	0	1.1	3.0	3.0	3.0

IC6542

	①	②	③	④	⑤
STOP	2.6	2.6	0	2.6	3.0
PLAY	1.3	1.3	0	1.4	3.0

IC6562

	①	②	③	④	⑤
STOP	2.3	1.5	0	1.4	3.0
PLAY	1.2	1.5	0	1.4	3.0

IC6563

	①	②	③	④	⑤	⑥	⑦	⑧
STOP	2.4	2.3	1.3	0	1.3	3.0	3.0	3.0
PLAY	1.4	1.3	1.3	0	1.3	3.0	3.0	3.0

IC6582

	①	②	③	④	⑤
STOP	0	1.5	0	1.4	3.0
PLAY	1.4	1.4	0	1.4	3.0

IC6583

	①	②	③	④	⑤	⑥	⑦	⑧
STOP	1.5	1.4	1.4	0	1.4	3.0	3.0	3.0
PLAY	1.4	0	1.3	0	1.4	3.0	3.0	3.0

IC7001

	①	②	③	④	⑤	⑥	⑦	⑧	⑨	⑩	⑪	⑫	⑬	⑭	⑮	⑯	⑰	⑱	⑲	⑳	㉑	㉒	㉓	㉔	㉕	㉖	㉗	㉘	㉙	㉚
STOP	5.0	5.0	0	5.0	5.0	0.1	0.1	0	0.1	3.1	5.0	0	5.0	5.0	5.0	0	0	5.0	5.0	5.0	5.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0	3.1
PLAY	2.6	0.2	2.5	4.9	0.2	2.6	0.2	0	2.5	3.1	0.2	2.5	4.9	2.6	4.9	0.2	2.6	0	0.2	2.6	0.2	4.9	0.2	0.2	0.2	3.1	3.1	0.7	0	3.1
	㉛	㉜	㉝	㉞	㉟	㊱	㊲	㊳	㊴	㊵	㊶	㊷	㊸	㊹	㊺	㊻	㊼	㊽	㊾	㊿										
STOP	3.1	0.1	0	0	0	3.1	1.4	1.7	0	2.7	0	2.7	1.8	3.1	3.1	0.8	0	0	1.5	1.2	2.1	1.5	1.7	1.8	2.1	0	0.2	0	0	0
PLAY	0.3	0.6	0	0	0	3.1	1.1	1.1	0	2.5	2.6	0.2	1.2	3.1	0.2	2.0	1.5	0.2	1.8	0.2	0.2	1.8	1.9	1.9	2.0	0	0.2	3.1	3.1	2.7
	㊿	①	②	③	④	⑤	⑥	⑦	⑧	⑨	⑩	⑪	⑫	⑬	⑭	⑮	⑯	⑰	⑱	⑲	⑳	㉑	㉒	㉓	㉔	㉕	㉖	㉗	㉘	㉙
STOP	3.1	3.1	0	4.0	0	3.1	0	3.1	0	3.1	0	3.1	3.1	3.1	0.1	3.1	0	0.1	0	0.2	0	0	0	0	0.1	3.1	0	0	0	0.1
PLAY	3.1	2.6	2.6	4.0	0.3	3.1	0	2.5	2.5	2.5	0	2.5	2.4	2.3	1.5	3.1	0	3.1	0	0.2	0	0	0	0	3.1	3.1	0	3.1	0	0
	㊿	①	②	③	④	⑤	⑥	⑦	⑧	⑨	⑩	⑪	⑫	⑬	⑭	⑮	⑯	⑰	⑱	⑲	⑳	㉑	㉒	㉓	㉔	㉕	㉖	㉗	㉘	㉙
STOP	0.1	3.1	0	3.1	0	3.1	0	3.1	0	0	1.4	3.1	0	3.1	3.1	3.1	0	0	0	0	0	0	0	1.5	1.5	1.5	0	3.1	0	3.1
PLAY	0	0	0	3.1	0	3.1	0	3.1	0	0	0	3.1	0	3.1	3.1	3.1	0	0	3.1	0	0.5	1.5	0	1.5	0	3.1	0	0	0	0
	㊿	①	②	③	④	⑤	⑥	⑦	⑧	⑨	⑩	⑪	⑫	⑬	⑭	⑮	⑯	⑰	⑱	⑲	⑳	㉑	㉒	㉓	㉔	㉕	㉖	㉗	㉘	㉙
STOP	0	0	0	0	5.0	5.0	0	5.0	0	3.1	2.3	5.0	0	0	0	0	0	5.0	0	0.4	2.5	0	0.1	0.1						
PLAY	0	0	0	0	4.9	4.9	0	4.9	0	3.1	2.2	4.9	0.1	0	4.9	0.4	0	4.9	4.9	0.1	2.4	0	0	0						

IC7301

	①	②	③	④	⑤
STOP	3.1	2.9	0	2.9	3.1
PLAY	3.1	3.0	0	3.0	3.1

IC7302

	①	②	③	④	⑤
STOP	2.9	3.1	0	3.1	3.1
PLAY	3.0	3.1	0	3.1	3.1

TRANSISTOR

Q3201

	(E)	(C)	(B)
STOP	1.5	0	0.9
PLAY	0.1	0	0.9

Q3211

	(E)	(C)	(B)
STOP	2.3	0	0.5
PLAY	1.3	0	0.7

Q5201

	①	②	③
STOP	4.5	4.9	1.2
PLAY	3.3	3.9	2.2

VOLTAGE CHART

Q3513

	(E)	(C)	(B)
STOP	1.8	0	1.2
PLAY	1.8	0	1.2

Q3603

	(E)	(C)	(B)
STOP	3.2	0	2.5
PLAY	3.2	0	2.5

Q4501

	(E)	(C)	(B)
STOP	0	0	0.7
PLAY	0	0	-4.9

Q4511

	(E)	(C)	(B)
STOP	0	0	0.7
PLAY	0	0	-4.9

4-4 SCART C.B.A.

IC

Ref No.	IC3801			IC3811												
MODE	1	2	3	1	2	3	4	5	6	7	8					
STOP	0	-12.4	-5.0	0	0	-5.0	0	0	0	0	5.1					
PLAY	0	-12.7	-5.0	0	0	-5.0	0	0	0	0	5.1					
Ref No.	IC3812															
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
STOP	0	0	0	0	0	0	-5.0	0	0	0	0	0	0	0	0	5.1
PLAY	0	0	0	0	0	0	-5.0	0	0	0	0	0	0	0	0	5.1
Ref No.	IC3813															
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
STOP	0	0	0	0	0	0	-5.0	0	0	0	0	0	0	0	0	5.0
PLAY	0	0	0	0	0	0	-5.0	0	0	0	0	0	0	0	0	5.0
Ref No.	IC3821															
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
STOP	0	0	0	0	0	0	-5.0	0	0	0	0	0	0	0	0	5.1
PLAY	0	0	0	0	0	0	-5.0	0	0	0	0	0	0	0	0	5.1
Ref No.	IC3822															
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
STOP	0	0	1.2	0	0	0	-5.0	0	0	0	0	0	0	0	0	5.1
PLAY	0	0	1.2	0	0	0	-5.0	0	0	0	0	0	0	0	0	5.1
Ref No.	IC3831															
MODE	1	2	3	4	5	6	7	8								
STOP	2.1	0	2.1	2.1	2.1	2.1	5.1	2.1								
PLAY	2.3	0	2.5	2.6	2.6	2.5	5.1	2.4								
Ref No.	IC3841															
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
STOP	3.8	0.7	0	0.7	0	0	0	0	2.8	0	0	0	3.0	2.8	3.0	5.1
PLAY	3.8	0.7	0	0.7	0	0	0.7	0	2.8	3.0	0	2.8	3.0	2.8	3.0	5.1

TRANSISTOR

Ref No.	Q3851			Q3852						Q3853					
MODE	E	C	B	1	2	3	4	5	6	1	2	3	4	5	6
STOP	13.1	0	13.1	0	0	0	0	0.1	0	0	0	0	0	5.0	0
PLAY	13.4	0	13.4	0	0	-0.1	0	0.7	0	0	0	0	0	5.0	0
Ref No.	Q3861			Q3862						Q3863			Q3864		
MODE	E	C	B	1	2	3	4	5	6	E	C	B	E	C	B
STOP	0.2	0	0	11.1	11.1	11.1	0	10.4	11.1	0.1	0.1	0.1	11.7	13.1	11.7
PLAY	0.2	0	0	11.1	11.1	11.1	0	10.4	11.1	0.1	0.1	0.1	11.1	13.4	11.7

TRANSISTOR & RESISTOR

Ref No.	QR3841					QR3842			QR3843					QR3851		
MODE	1	2	3	4	5	E	C	B	1	2	3	4	5	E	C	B
STOP	4.6	4.6	0	0	0	0	0	4.6	3.8	3.8	0	0	0	0	5.0	0
PLAY	4.6	4.6	0	0	0	0	0	4.6	3.8	3.8	0	0	0	0	5.0	0
Ref No.	QR3852					QR3853					QR3861					
MODE	1	2	3	4	5	1	2	3	4	5	E	C	B			
STOP	13.1	0	5.0	0	0	5.0	4.9	0	5.0	0	0	5.0	0			
PLAY	13.3	0	5.0	0	0	5.0	4.9	0	5.0	0	0	5.0	0			
Ref No.	QR3862					QR3863										
MODE	1	2	3	4	5	1	2	3	4	5						
STOP	0	11.1	0	0	5.0	0	0.1	0	0	5.0						
PLAY	0	11.1	0	0	5.0	0	0.1	0	0	5.0						

SCART C. B. A.



POWER SW
C. B. A.

FRONT PANEL
UNIT

FIP

MOTHER
C. B. A.

MODULE
C. B. A.

PICK UP UNIT

TRAVERSE (STEPPING) MOTOR

LOADING UNIT

S6007 S6003 S6005 S6001 S6006 S6002 S6004

(OPEN/ (STOP) (RVS-SKIP) (PAUSE) (FIND-SKIP) (PLAY) (VSS)

CLOSE)

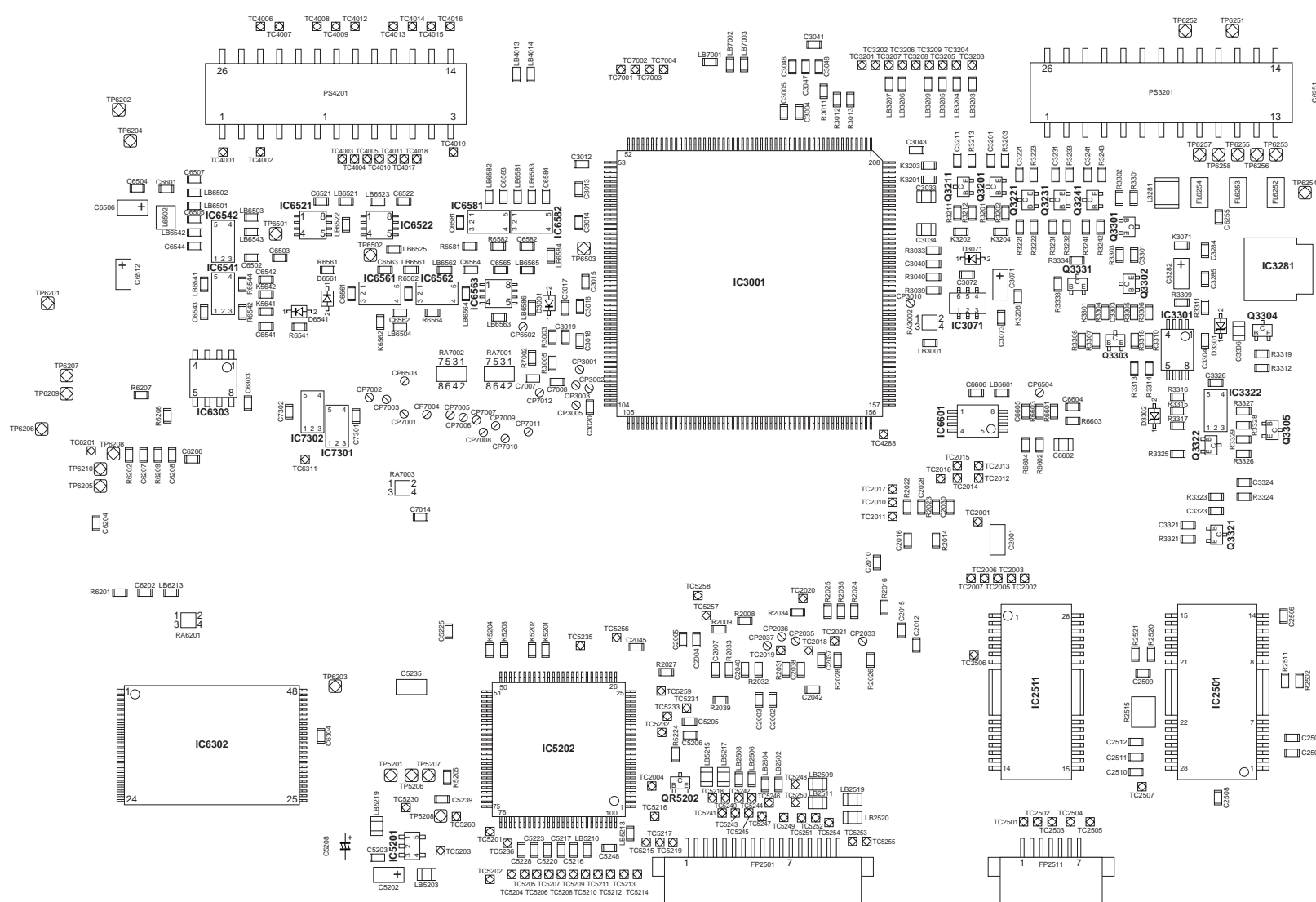
LOADING C. B. A

CLOSE |

M2601
LOADING
MOTOR

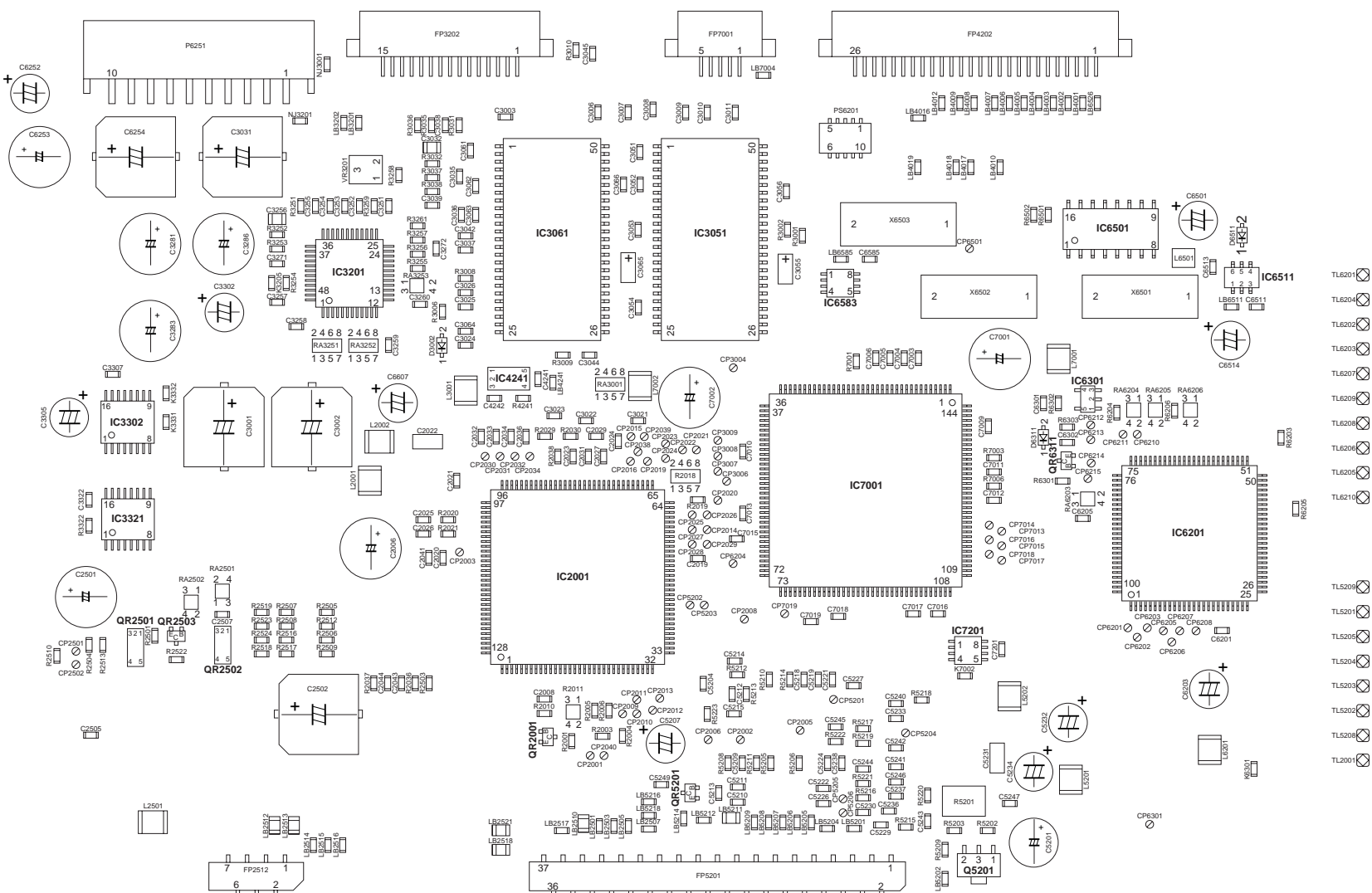


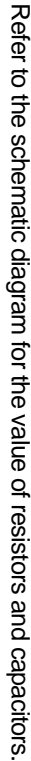
PC BOARD(Component side view)



PC BOARD(Foil side view)


MODULE C.B.A. (2/2)



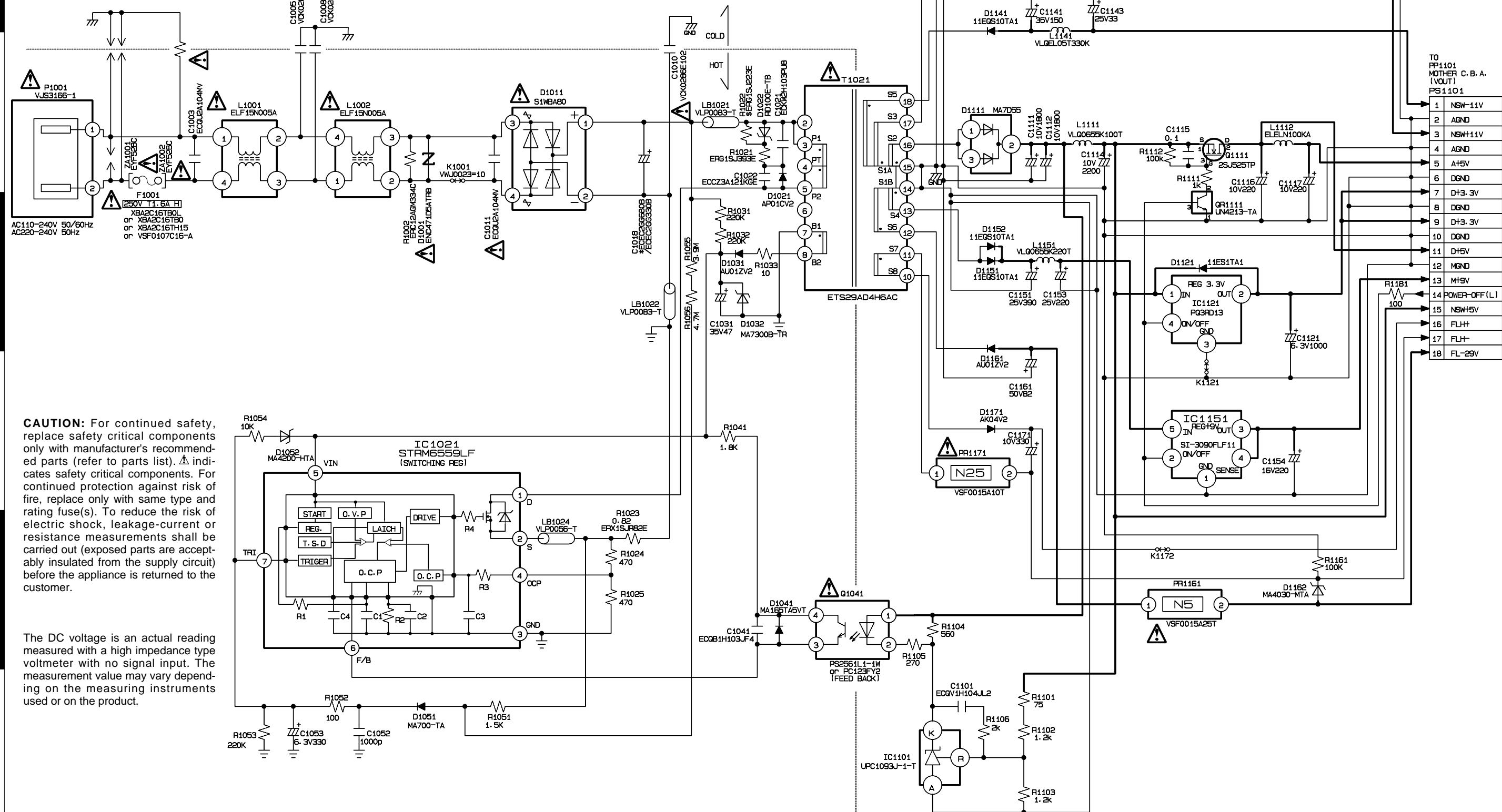
\leq 


Power supply

CAUTION

THE  MARK INDICATES THE PRIMARY CIRCUIT TO DISTINGUISH THE PRIMARY FROM THE SECONDARY CIRCUIT. PAY ATTENTION NOT TO RECEIVE AN ELECTRIC SHOCK DURING REPAIR AND SERVICE OF THE PRODUCTS.

IMPORTANT SAFETY NOTICE: COMPONENTS IDENTIFIED WITH THE MARK  HAVE THE SPECIAL CHARACTERISTICS FOR SAFETY. WHEN REPLACING ANY OF THESE COMPONENTS, USE ONLY THE SAME TYPE.



CAUTION: For continued safety, replace safety critical components only with manufacturer's recommended parts (refer to parts list).  indicates safety critical components. For continued protection against risk of fire, replace only with same type and rating fuse(s). To reduce the risk of electric shock, leakage-current or resistance measurements shall be carried out (exposed parts are acceptably insulated from the supply circuit) before the appliance is returned to the customer.

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HOT

<<WARNING! Live Mains>>

HOT

COLD

NOTE: DO NOT USE THE PART NUMBER SHOWN ON THIS DRAWING FOR ORDERING. THE CORRECT PART NUMBER IS SHOWN IN THE PARTS LIST, AND MAY BE SLIGHTLY DIFFERENT OR AMENDED SINCE THIS DRAWING WAS PREPARED.

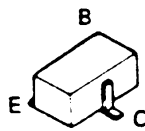
1	NSW-11V
2	AGND
3	NSW+11V
4	AGND
5	A+5V
6	DGND
7	D+3.3V
8	DGND
9	D+3.3V
10	DGND
11	D+5V
12	MGND
13	M+5V
14	POWER-OFF (L)
15	NSW+5V
16	FLH+
17	FLH-
18	FL-29V

DVF-3020

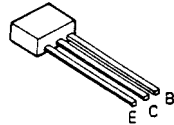
KENWOOD

Y22-8202-73

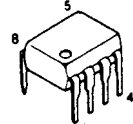
DTA123JK 2SD1328
UN5213
2SB1218A
2SB709A



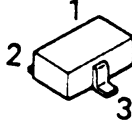
UN4213



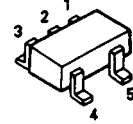
UPC1093J



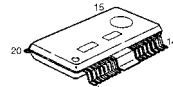
UN5212



TC7SH08FU



BA5983FM

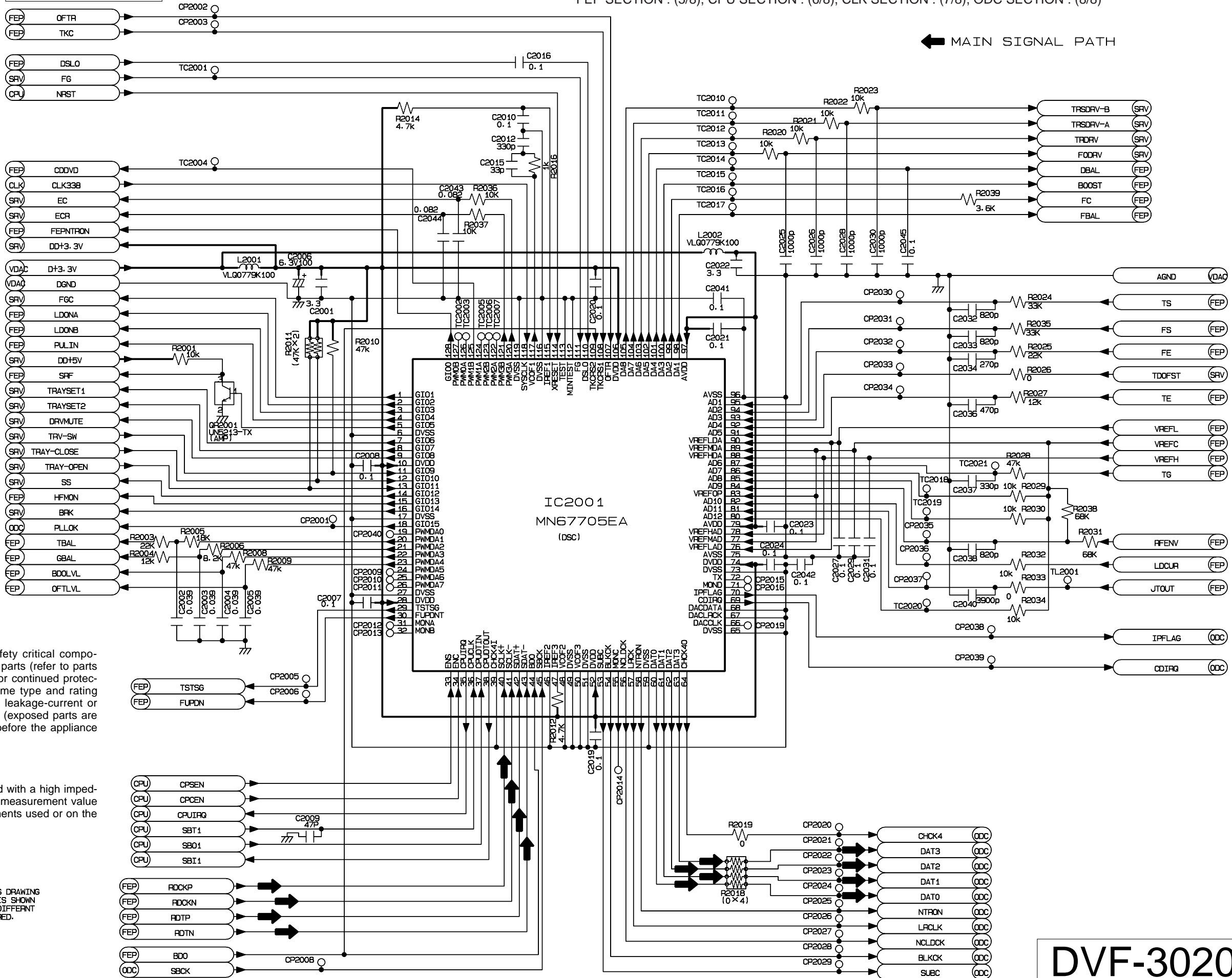


CAUTION: For continued safety, replace safety critical components only with manufacturer's recommended parts (refer to parts list). Δ indicates safety critical components. For continued protection against risk of fire, replace only with same type and rating fuse(s). To reduce the risk of electric shock, leakage-current or resistance measurements shall be carried out (exposed parts are acceptably insulated from the supply circuit) before the appliance is returned to the customer.

The DC voltage is an actual reading measured with a high impedance type voltmeter with no signal input. The measurement value may vary depending on the measuring instruments used or on the product.

NOTE: DO NOT USE THE PART NUMBER SHOWN ON THIS DRAWING FOR ORDERING. THE CORRECT PART NUMBER IS SHOWN IN THE PARTS LIST, AND MAY BE SLIGHTLY DIFFERENT OR AMENDED SINCE THIS DRAWING WAS PREPARED.

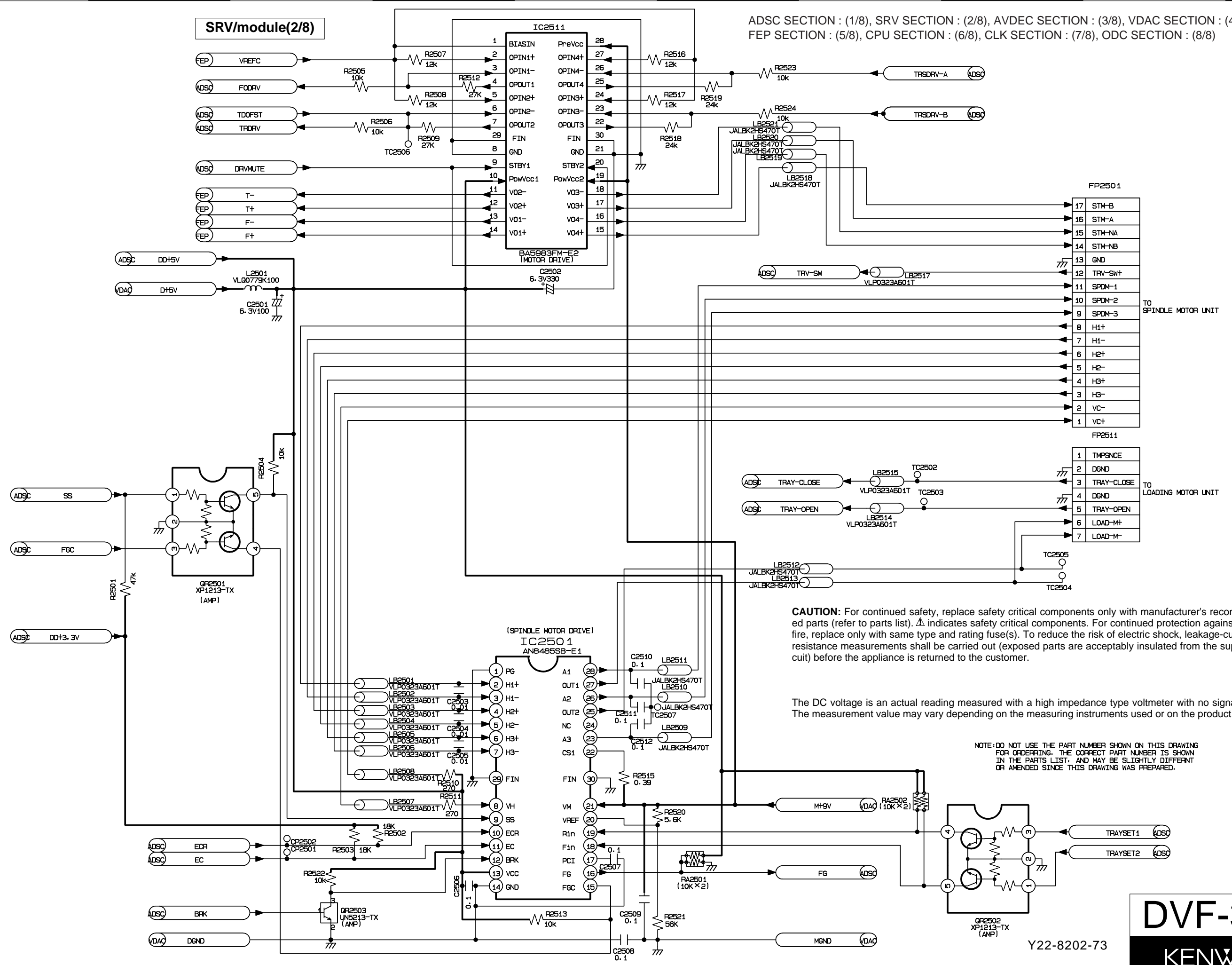
ADSC/module(1/8)



Y22-8202-73

SRV/module(2/8)

ADSC SECTION : (1/8), SRV SECTION : (2/8), AVDEC SECTION : (3/8), VDAC SECTION : (4/8)
FEP SECTION : (5/8), CPU SECTION : (6/8), CLK SECTION : (7/8), ODC SECTION : (8/8)



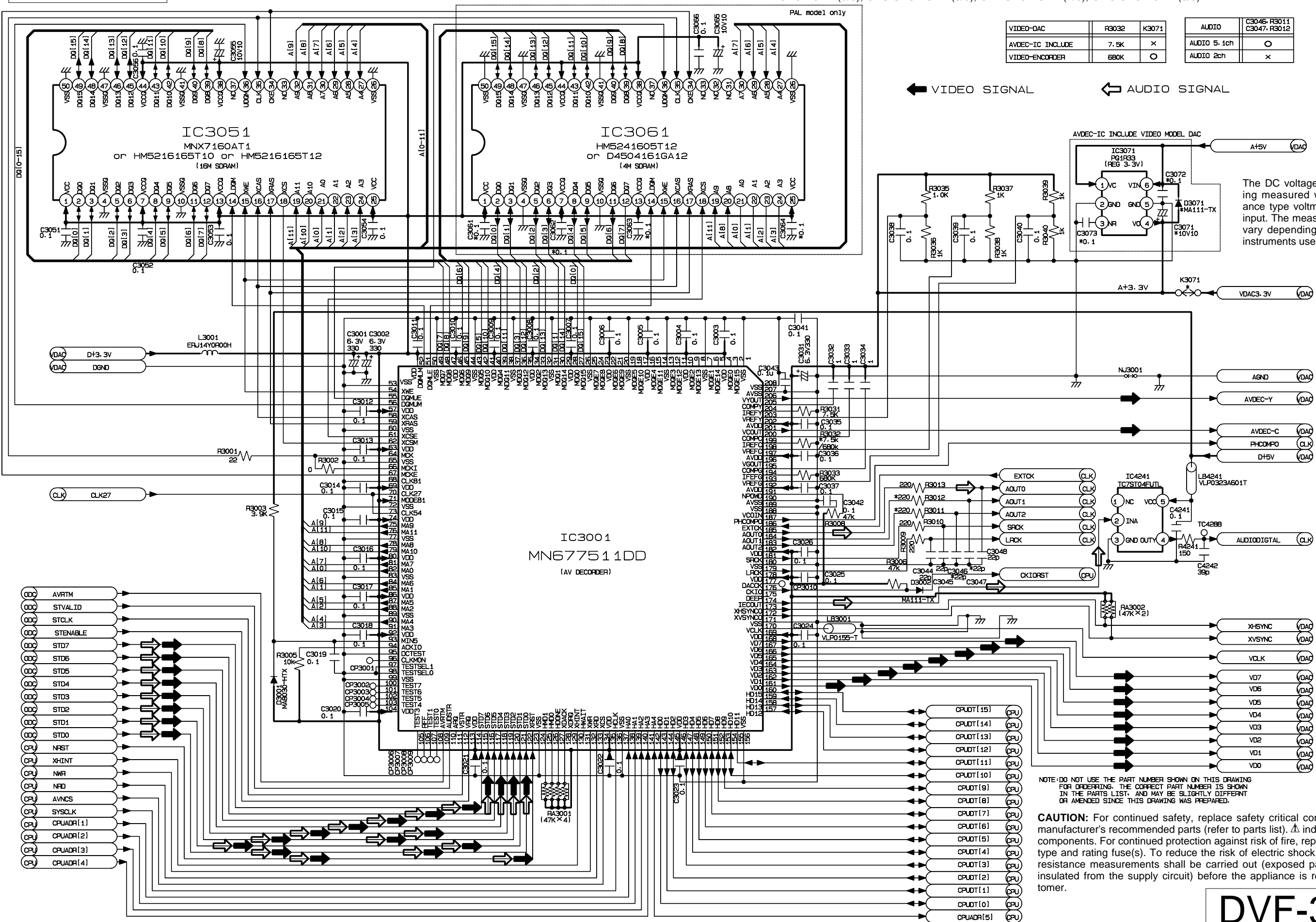
CAUTION: For continued safety, replace safety critical components only with manufacturer's recommended parts (refer to parts list). Δ indicates safety critical components. For continued protection against risk of fire, replace only with same type and rating fuse(s). To reduce the risk of electric shock, leakage-current or resistance measurements shall be carried out (exposed parts are acceptably insulated from the supply circuit) before the appliance is returned to the customer.

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AVDEC/module(3/8)

ADSC SECTION : (1/8), SRV SECTION : (2/8), AVDEC SECTION : (3/8), VDACC SECTION : (4/8)
FEP SECTION : (5/8), CPU SECTION : (6/8), CLK SECTION : (7/8), ODC SECTION : (8/8)

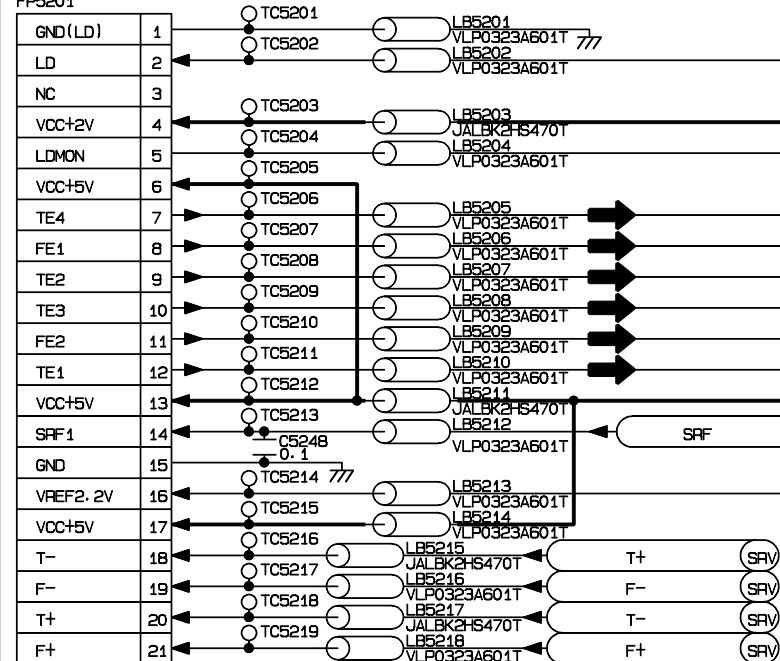



FEP/module(5/8)

ADSC SECTION : (1/8), SRV SECTION : (2/8), AVDEC SECTION : (3/8), VDAC SECTION : (4/8)
FEP SECTION : (5/8), CPU SECTION : (6/8), CLK SECTION : (7/8), ODC SECTION : (8/8)

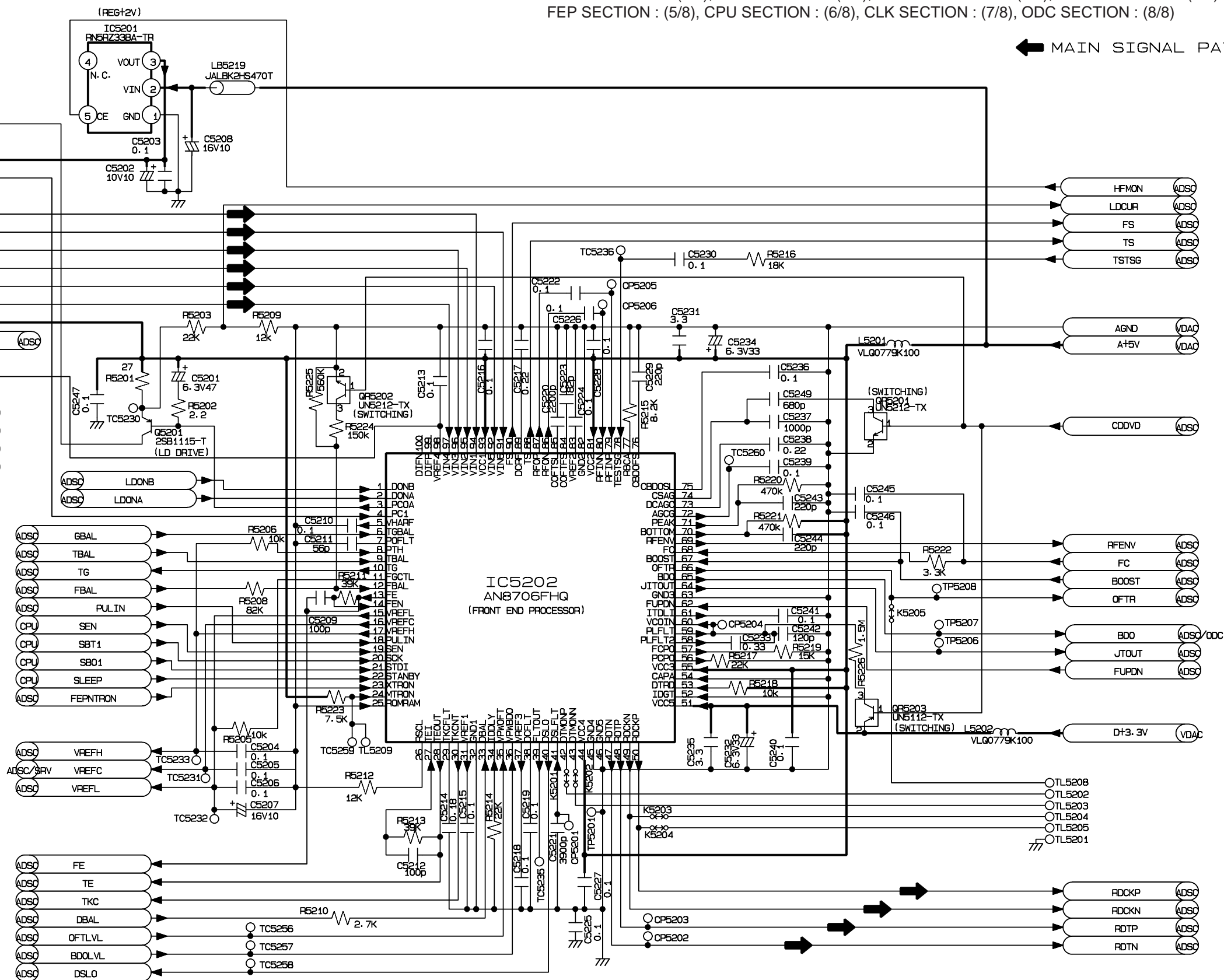
← MAIN SIGNAL PATH

TO
OPTICAL PICK UP UNIT
FP5201



CAUTION: For continued safety, replace safety critical components only with manufacturer's recommended parts (refer to parts list).  indicates safety critical components. For continued protection against risk of fire, replace only with same type and rating fuse(s). To reduce the risk of electric shock, leakage-current or resistance measurements shall be carried out (exposed parts are acceptably insulated from the supply circuit) before the appliance is returned to the customer.

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THE CORRECT PART NUMBER IS SHOWN IN THE PARTS LIST, AND MAY BE
SLIGHTLY DIFFERENT OR AMENDED SINCE THIS DRAWING WAS PREPARED.

DVF-3020
KENWOOD

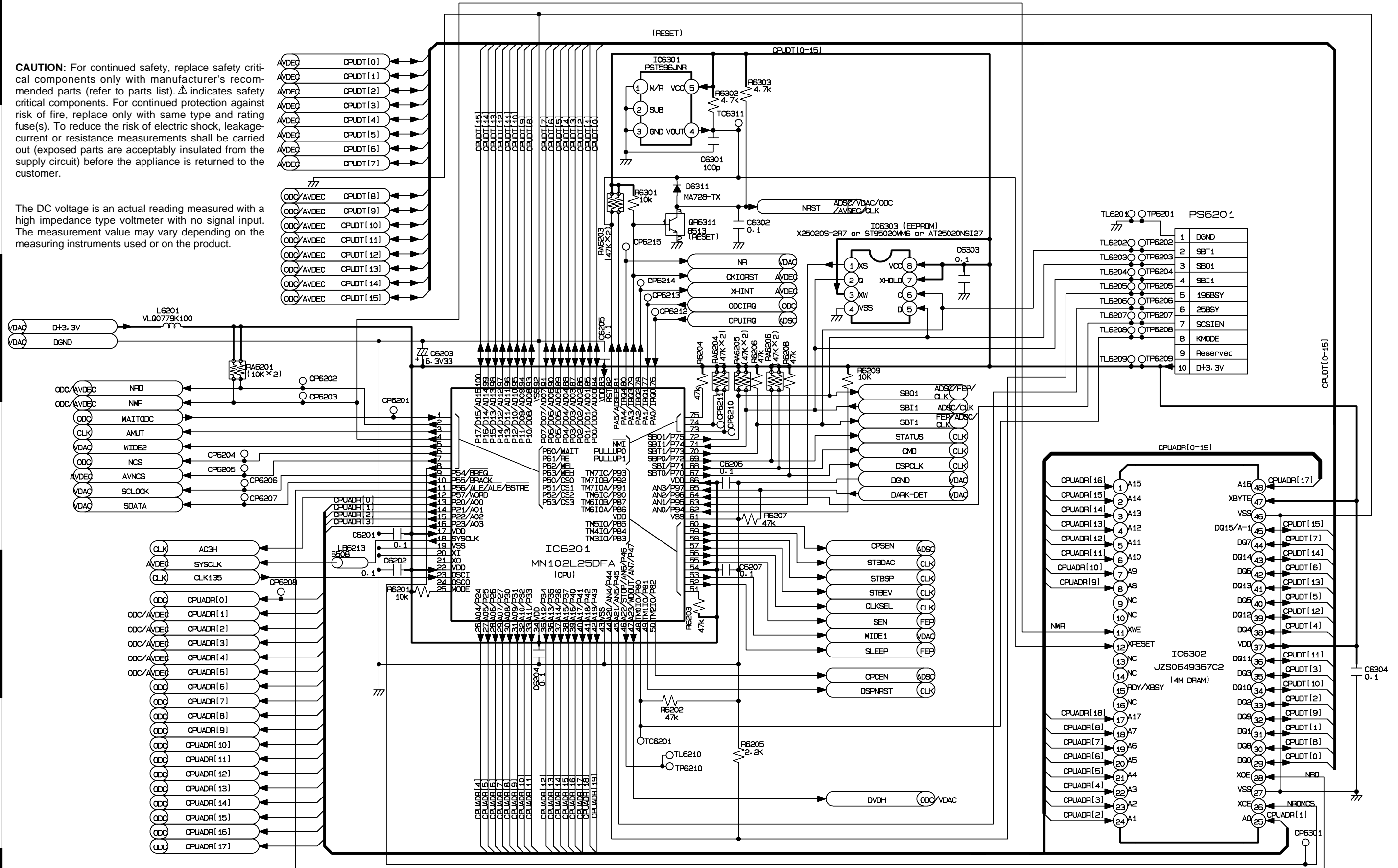
Y22-8202-73

CPU/module(6/8)

ADSC SECTION : (1/8), SRV SECTION : (2/8), AVDEC SECTION : (3/8), VDAC SECTION : (4/8)
FEP SECTION : (5/8), CPU SECTION : (6/8), CLK SECTION : (7/8), ODC SECTION : (8/8)

CAUTION: For continued safety, replace safety critical components only with manufacturer's recommended parts (refer to parts list). ⚠ indicates safety critical components. For continued protection against risk of fire, replace only with same type and rating fuse(s). To reduce the risk of electric shock, leakage-current or resistance measurements shall be carried out (exposed parts are acceptably insulated from the supply circuit) before the appliance is returned to the customer.

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FOR ORDERING. THE CORRECT PART NUMBER IS SHOWN
IN THE PARTS LIST. AND MAY BE SLIGHTLY DIFFERNT
OR AMENDED SINCE THIS DRAWING WAS PREPARED.

Y22-8202-73

DVF-3020

KENWOOD

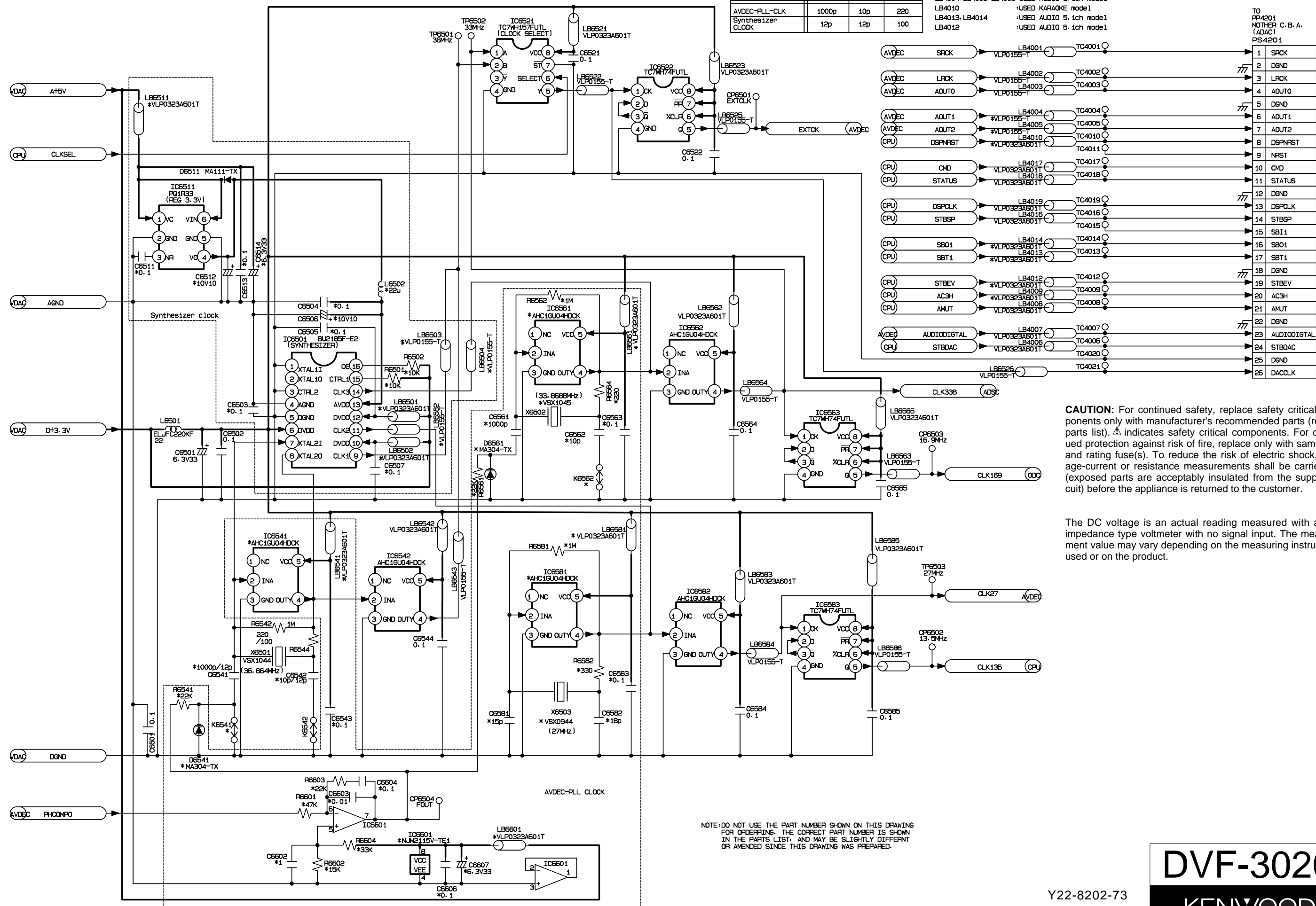
CLK/module(7/8)

ADSC SECTION : (1/8), SRV SECTION : (2/8), AVDEC SECTION : (3/8), VDAC SECTION : (4/8)
FEP SECTION : (5/8), CPU SECTION : (6/8), CLK SECTION : (7/8), ODC SECTION : (8/8)

	C6541	C6542	R6544
AVDEC-PLL-CLK	1000p	10p	220
Synthesizer CLOCK	12p	12p	100

LB4004, LB4005, LB4009:USED AUDIO 5.1ch mode1
LB4010 :USED KARAOKE mode1
LB4013, LB4014 :USED AUDIO 5.1ch mode1
LB4012 :USED AUDIO 5.1ch mode1

TO
PP4201
MOTHER C.B.A.
(ADAC)
PS4201



CAUTION: For continued safety, replace safety critical components only with manufacturer's recommended parts (refer to parts list). Δ indicates safety critical components. For continued protection against risk of fire, replace only with same type and rating fuse(s). To reduce the risk of electric shock, leakage-current or resistance measurements shall be carried out (exposed parts are acceptably insulated from the supply circuit) before the appliance is returned to the customer.

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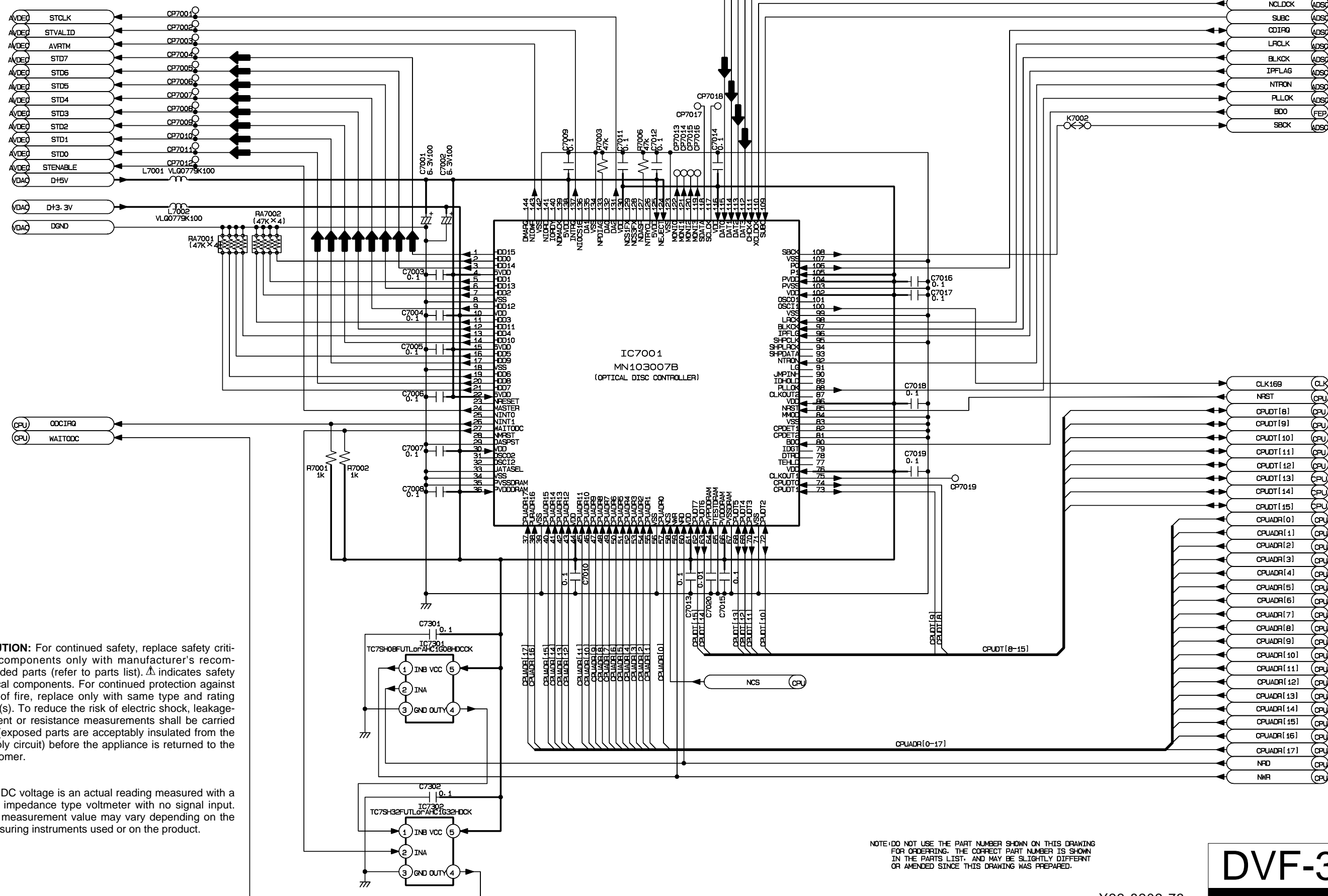
NOTE: DO NOT USE THE PART NUMBER SHOWN ON THIS DRAWING FOR ORDERING. THE CORRECT PART NUMBER IS SHOWN IN THE PARTS LIST, AND MAY BE SLIGHTLY DIFFERENT OR AMENDED SINCE THIS DRAWING WAS PREPARED.

DVF-3020
KENWOOD

Y22-8202-73



ADSC SECTION : (1/8), SRV SECTION : (2/8), AVDEC SECTION : (3/8), VDAC SECTION : (4/8)
FEP SECTION : (5/8), CPU SECTION : (6/8), CLK SECTION : (7/8), ODC SECTION : (8/8)

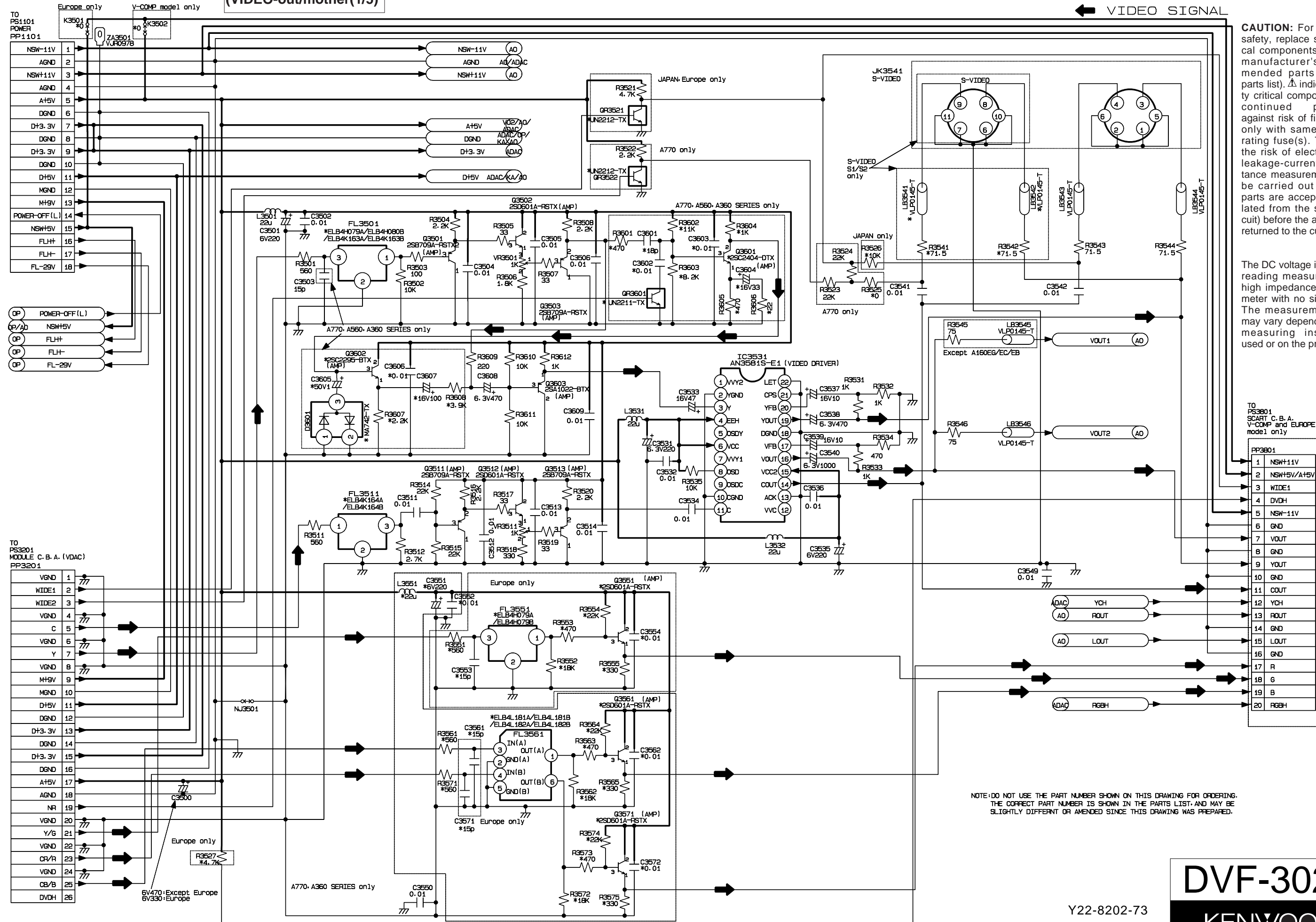


NOTE:DO NOT USE THE PART NUMBER SHOWN ON THIS DRAWING
FOR ORDERING. THE CORRECT PART NUMBER IS SHOWN
IN THE PARTS LIST. AND MAY BE SLIGHTLY DIFFERNT
OR AMENDED SINCE THIS DRAWING WAS PREPARED.

CM CN CO CP CQ CR CS CT CU CV

Ref. No. 23500-23699
(VIDEO-out/mother(1/5))VOUT SECTION : (1/5), ADAC SECTION : (2/5)
AC3 SECTION : (3/5), AO SECTION : (4/5), OP SECTION : (5/5)

VIDEO SIGNAL



CAUTION: For continued safety, replace safety critical components only with manufacturer's recommended parts (refer to parts list). Δ indicates safety critical components. For continued protection against risk of fire, replace only with same type and rating fuse(s). To reduce the risk of electric shock, leakage-current or resistance measurements shall be carried out (exposed parts are acceptably insulated from the supply circuit) before the appliance is returned to the customer.

The DC voltage is an actual reading measured with a high impedance type voltmeter with no signal input. The measurement value may vary depending on the measuring instruments used or on the product.

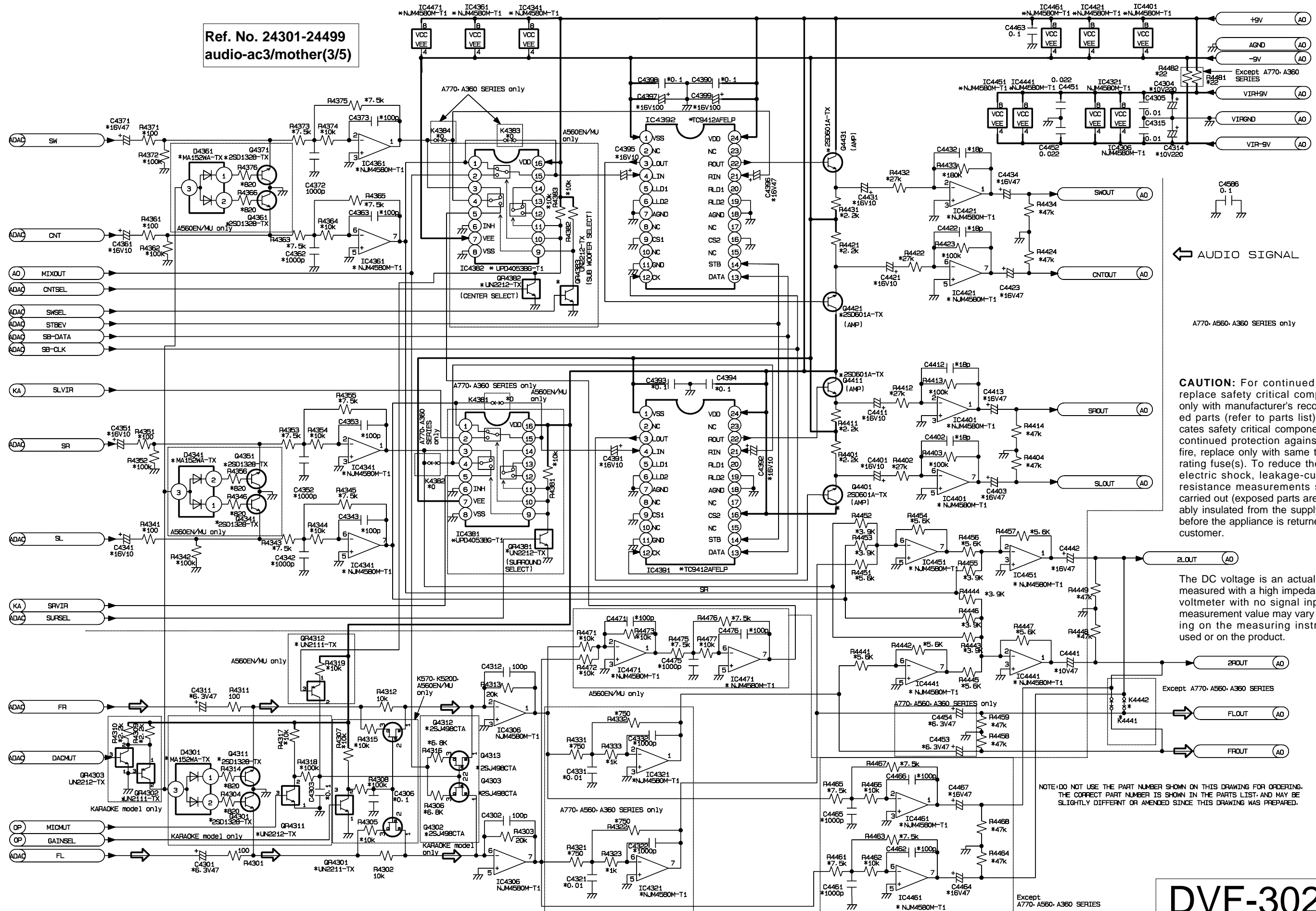
DVF-3020

KENWOOD

Y22-8202-73

VOU SECTION : (1/5), ADAC SECTION : (2/5)
AC3 SECTION : (3/5), AO SECTION : (4/5), OP SECTION : (5/5)

Ref. No. 24301-24499
audio-ac3/mother(3/5)



← AUDIO SIGNAL

A770-A560-A360 SERIES only

CAUTION: For continued safety, replace safety critical components only with manufacturer's recommended parts (refer to parts list). Δ indicates safety critical components. For continued protection against risk of fire, replace only with same type and rating fuse(s). To reduce the risk of electric shock, leakage-current or resistance measurements shall be carried out (exposed parts are acceptably insulated from the supply circuit) before the appliance is returned to the customer.

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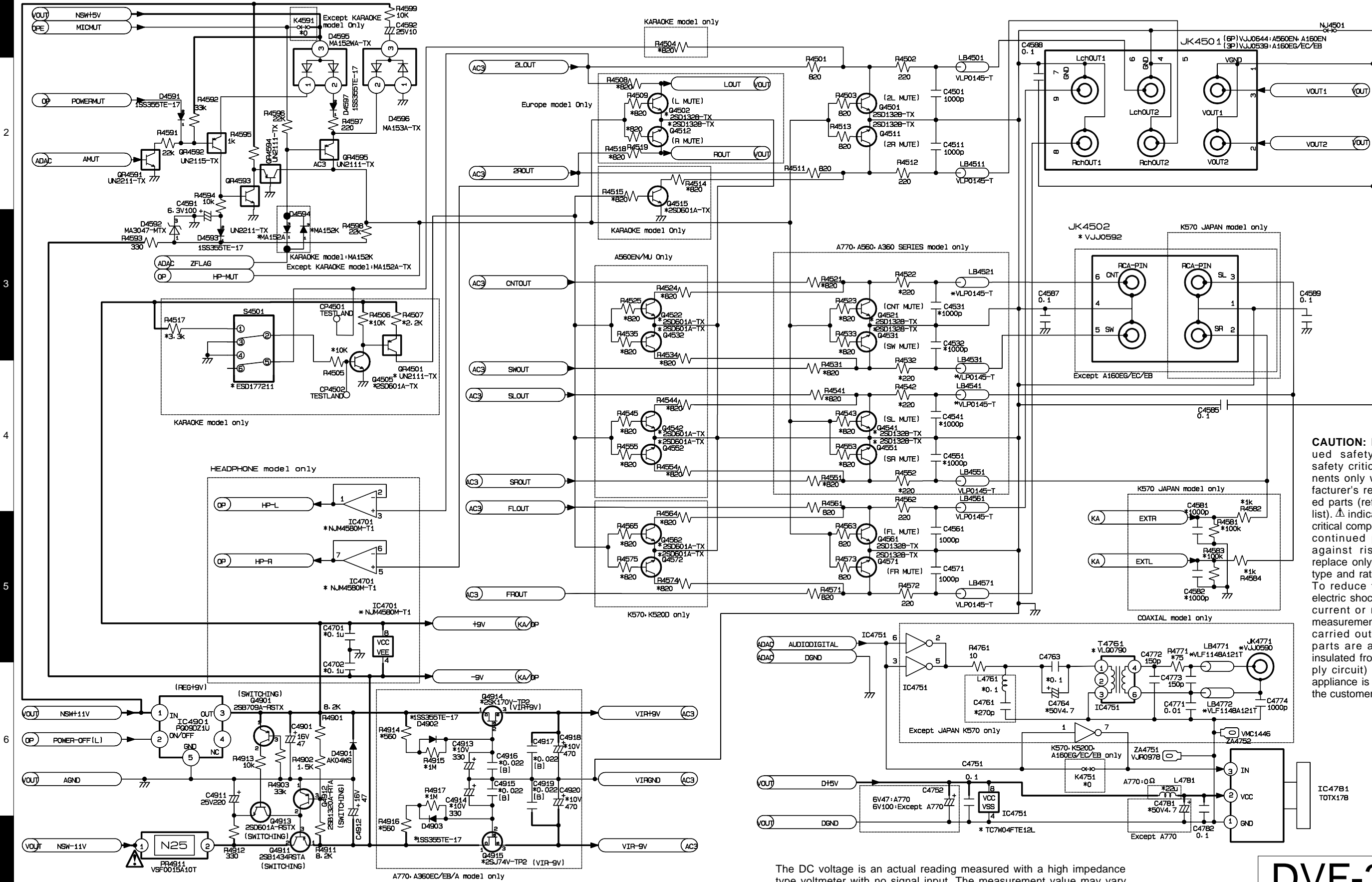
DVF-3020
KENWOOD


Ref. No. 24501-24599
 Ref. No. 24701-24799
 Ref. No. 24901-24949
 audio-out/mother(4/5)

VOUT SECTION : (1/5), ADAC SECTION : (2/5)
 AC3 SECTION : (3/5), AO SECTION : (4/5), OP SECTION : (5/5)

IMPORTANT SAFETY NOTICE:
 COMPONENTS IDENTIFIED WITH THE MARK  HAVE THE SPECIAL CHARACTERISTICS FOR SAFETY.
 WHEN REPLACING ANY OF THESE COMPONENTS, USE ONLY THE SAME TYPE.

NOTE: DO NOT USE THE PART NUMBER SHOWN ON THIS DRAWING FOR ORDERING.
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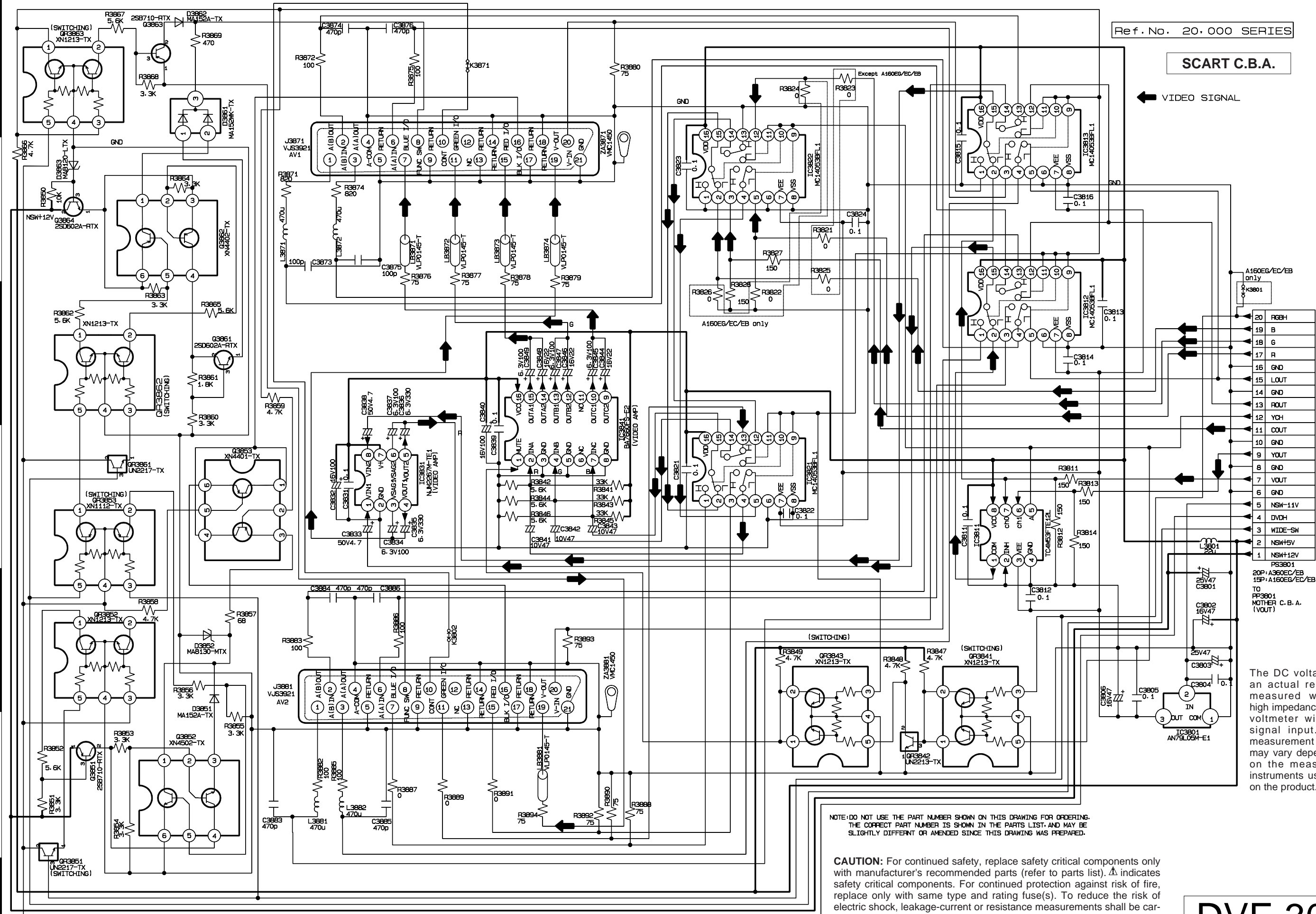
CAUTION: For continued safety, replace safety critical components only with manufacturer's recommended parts (refer to parts list).  indicates safety critical components. For continued protection against risk of fire, replace only with same type and rating fuse(s). To reduce the risk of electric shock, leakage-current or resistance measurements shall be carried out (exposed parts are acceptably insulated from the supply circuit) before the appliance is returned to the customer.

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Ref. No. 20.000 SERIES

SCART C.B.A.

VIDEO SIGNAL



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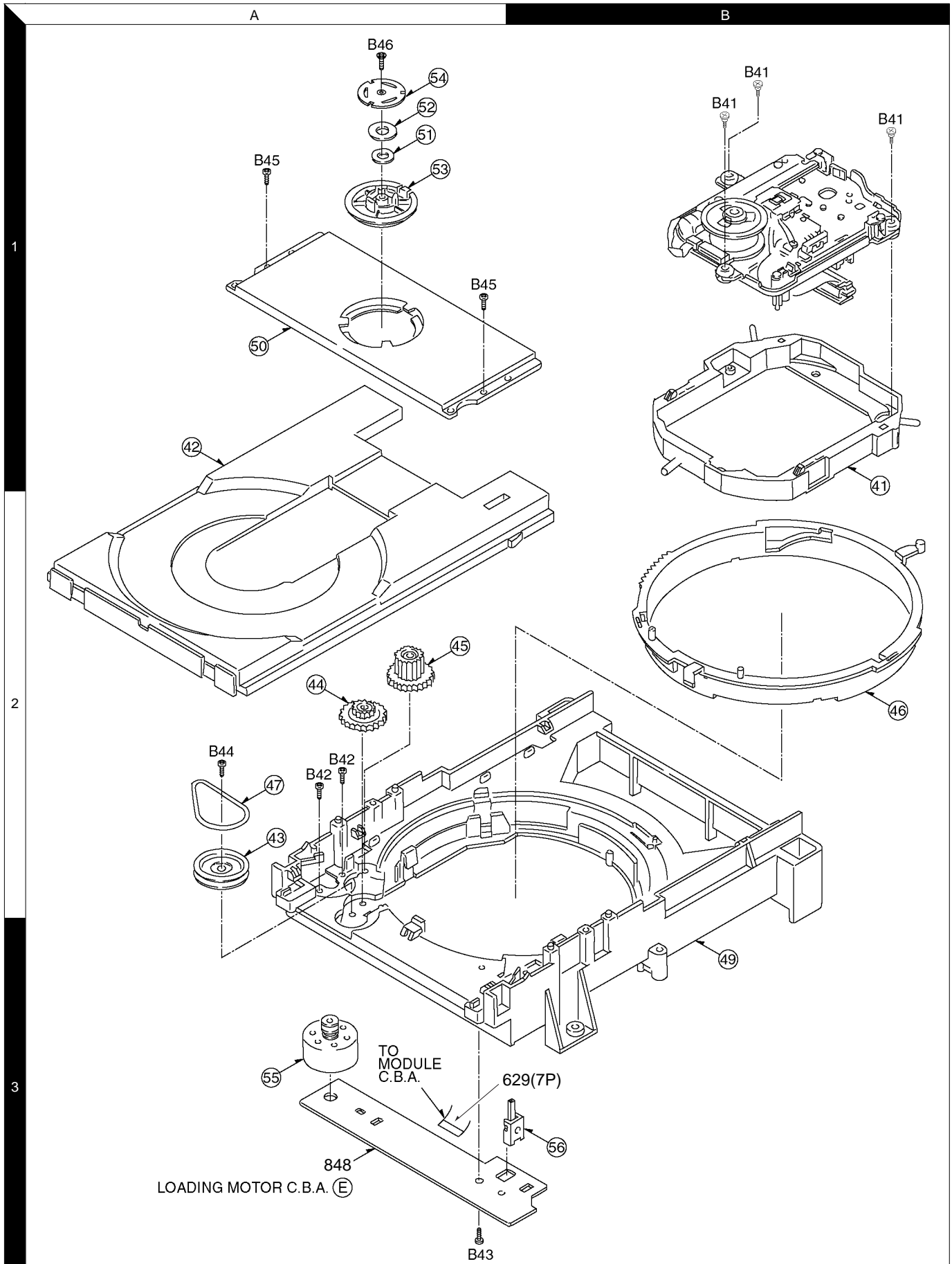
CAUTION: For continued safety, replace safety critical components only with manufacturer's recommended parts (refer to parts list). Δ indicates safety critical components. For continued protection against risk of fire, replace only with same type and rating fuse(s). To reduce the risk of electric shock, leakage-current or resistance measurements shall be carried out (exposed parts are acceptably insulated from the supply circuit) before the appliance is returned to the customer.

20	RGBH
19	B
18	G
17	R
16	GND
15	LOUT
14	GND
13	ROUT
12	YCH
11	COU
10	GND
9	YOUT
8	GND
7	VOU
6	GND
5	NSW+11V
4	DVDH
3	WIDE-SW
2	NSW+5V
1	NSW+12V

PS3801
20P: A360EC/EB
15P: A160EG/EC/EB
TO
PP3801
MOTHER C.B.A.
(VOUT)

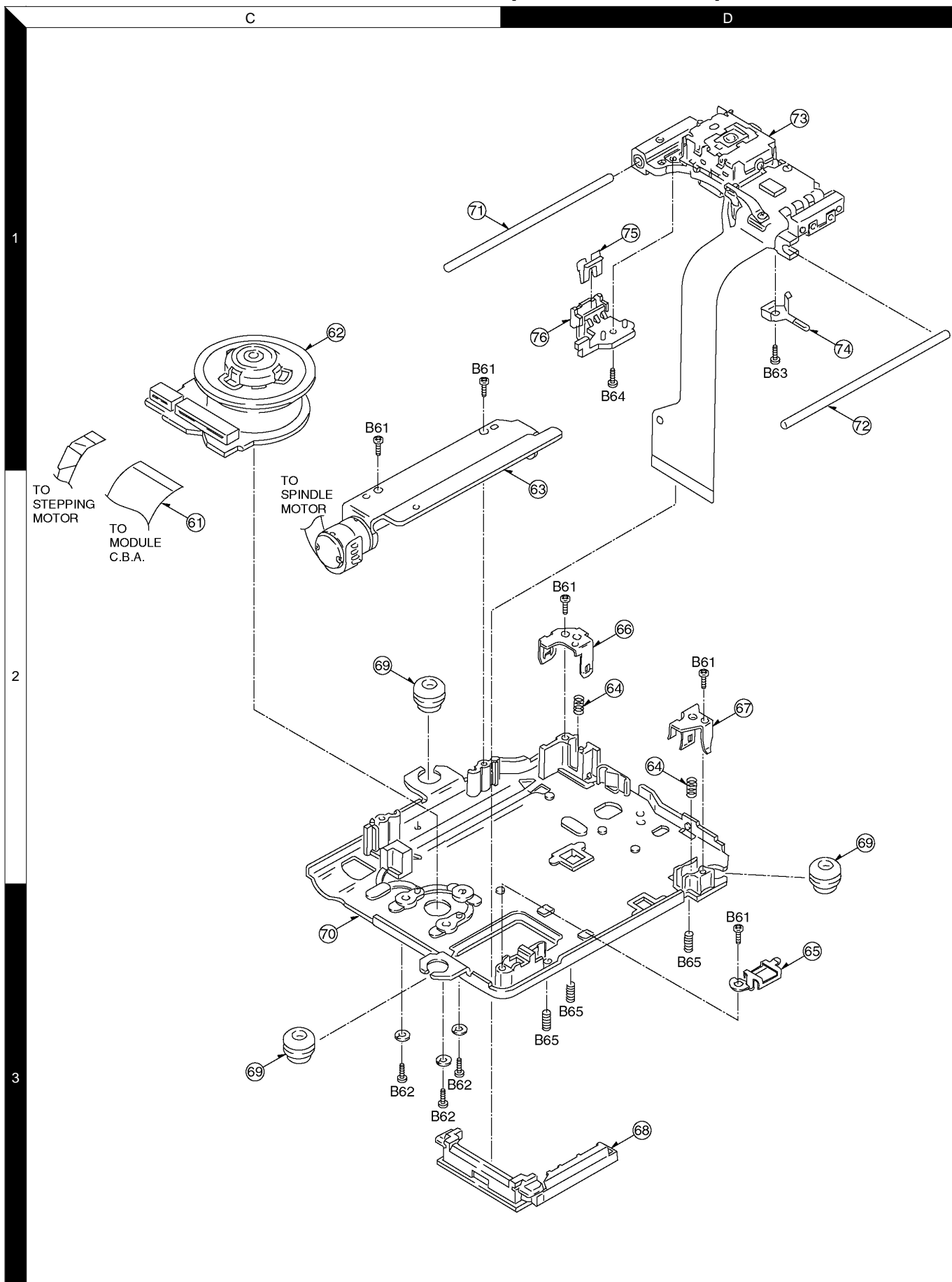
The DC voltage is an actual reading measured with a high impedance type voltmeter with no signal input. The measurement value may vary depending on the measuring instruments used or on the product.

EXPLODED VIEW (MECHANISM)

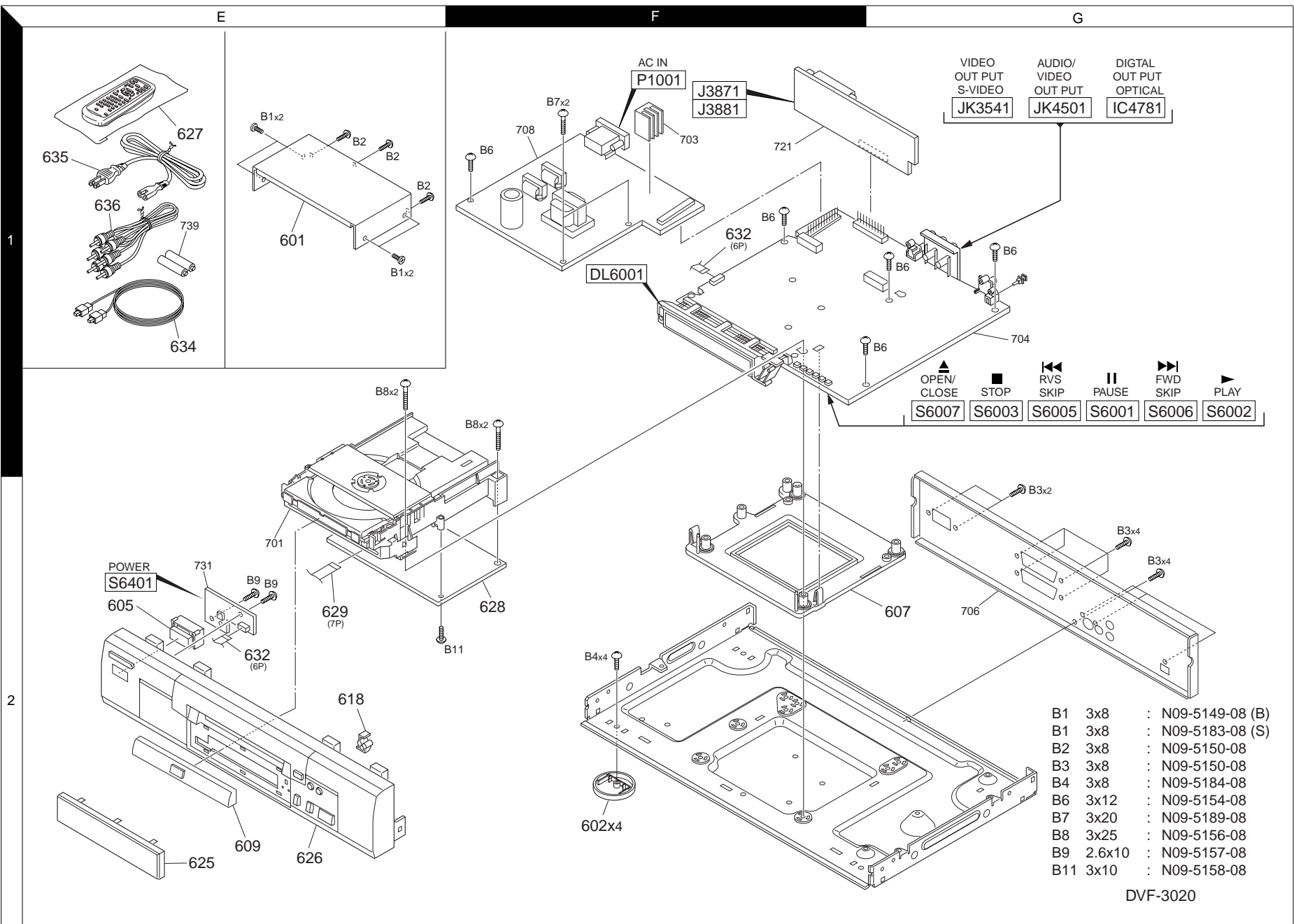


DVF-3020

EXPLODED VIEW (MECHANISM)



EXPLODED VIEW (UNIT)



* New Parts
Parts without **Parts No.** are not supplied.
Les articles non mentionnés dans le **Parts No.** ne sont pas fournis.
Teile ohne **Parts No.** werden nicht geliefert.

1

Ref. No	Add-ress	New Parts	Parts No.	Description			Desti-nation	Re-marks
DVF-3020 B : BLACK S : SILVER								
601	1E	*	A01-3749-08	TOP COVER	VGM1591		B	
601	1E		A01-3754-08	TOP COVER	VGM1639		S	
602	2F		J02-1468-08	LEG	VYK5504			
605	2E		K27-2400-08	POWER BUTTON	VGU8288		S	
605	2E		K27-2407-08	POWER BUTTON	VGU8291		B	
607	2G	*	J30-1405-08	SPACER	VMD3305			
609	2E		A29-1093-08	TRAY TOP	VYF2639		B	
609	2E		A29-1094-08	TRAY TOP	VYF2638		S	
618	2E		J19-6058-08	HOLDER	VGL0812			
625	2E		B10-3573-08	FRONT COVER	VKW2709			
626	2E	*	A60-1836-08	FRONT PANEL	VYP7322		B	S
626	2E		A60-1837-08	FRONT PANEL	VYP7523			
627	1E	*	A70-1353-08	REMOTE CONTROL UNIT	VEQ2324			
628	2F		J26-0107-08	MODULE CBA	VEP96541G			
629	2E		E35-2508-08	LOADING FFC(7P)	VWJ1278			
632	2E,1F	*	E35-2509-08	6P FLEX CABLE	VWJ06C9170BB			
634	1E		B19-1615-08	OPTICAL CABLE	VJA1031			
635	1E		E30-2946-08	AC CORD	VJA0664			
636	1E		E30-2938-08	A/V CORD	VJA1062			
-			B46-0310-03	WARRANTY CARD				
-		*	B58-0966-13	CAUTION CARD				
-			B60-4485-08	OPERATING INSTRUCT.	VQT8380			
-			B60-4486-08	OPERATING INSTRUCT.	VQT8381			
-			H09-0133-08	ACCESSORY CASE	VPK1891Z			
-			H10-7642-08	CUSHION(L)	VPN5241			
-		*	H10-7643-08	CUSHION(R)	VPN5242			
-			H25-1666-08	POLYETHYLENE BAG	VPF0693			
-			H50-3693-08	PACKING CASE	VPG0B79		B	
-			H50-3701-08	PACKING CASE	VPG0B80		S	
B1			N09-5149-08	SCREW	VHD1041		B	
B1		*	N09-5183-08	SCREW	VHD1094		S	
B2			N09-5150-08	SCREW	VHD0690			
B3			N09-5150-08	SCREW	VHD0690			
B4			N09-5184-08	SCREW	XTV3+8GFZ			
B6			N09-5154-08	SCREW	XYE3+EF12			
B7		*	N09-5189-08	SCREW	XYE3+EF20			
B8			N09-5156-08	SCREW	XYE3+EF25			
B9			N09-5157-08	SCREW	XTBS26+10J			
B11			N09-5158-08	SCREW	XTV3+10G			
ELECTRONICS PARTS								
FL3501		*	B11-1502-08	FILTER	ELB4K163B			
FL3511			B11-1503-08	FILTER	ELB4K164B			
FL3551			L79-1261-08	FILTER	ELB4H079B			
FL6251-54			L92-0087-08	FILTER	ELKE103FA			
C1003			C90-3913-08	MF-C	0.01UF	J		
C1005			C90-3914-08	CERAMIC	470PF	J		
C1008			C90-3914-08	CERAMIC	470PF	J		
C1010			C90-3920-08	CERAMIC	1000P	J		
C1011			C90-3913-08	MF-C	0.01UF	J		
C1018			C90-3921-08	ELECTRO	68UF	400WV		
C1021			CK45FB2H103K	CERAMIC	0.010UF	K		
C1022			C90-3871-08	CHIP C	120PF	J		

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C1031			CE04EW1V470M	ELECTRO	47UF	35WV
C1041			CQ93FMG1H103J	MYLAR	0.010UF	J
C1052			CK45FB1H102K	CERAMIC	1000PF	K
C1053			CE04KW0J331M	ELECTRO	330UF	6.3WV
C1101			CQ93FMG1H104J	MYLAR	0.10UF	J
C1111,12			C90-3872-08	ELECTRO	1800UF	10WV
C1114			CE04KW1A222M	ELECTRO	2200UF	10WV
C1115			C90-3873-08	CHIP C	0.01UF	Z
C1116,17			CE04KW1A221M	ELECTRO	220UF	10WV
C1121			CE04KW0J102M	ELECTRO	1000UF	6.3WV
C1131			C90-3874-08	ELECTRO	150UF	35WV
C1133			CE04KW1E330M	ELECTRO	33UF	25WV
C1141			C90-3874-08	ELECTRO	150UF	35WV
C1143			CE04KW1E330M	ELECTRO	33UF	25WV
C1151			C90-3922-08	ELECTRO	390UF	25WV
C1153			CE04KW1E221M	ELECTRO	220UF	25WV
C1154			CE04KW1C221M	ELECTRO	220UF	16WV
C1161			C90-3876-08	ELECTRO	82UF	50WV
C1171			CE04KW1A331M	ELECTRO	330UF	10WV
C2001			CK73FB1A335K	CHIP C	3.3UF	K
C2002-05			CK73GB1C393K	CHIP C	0.039UF	K
C2006			C90-3923-08	ELECTRO	100UF	6.3WV
C2007,08			CK73GB1C104Z	CHIP C	0.10UF	Z
C2009			CC73GCH1H470J	CHIP C	47PF	J
C2010			CK73GB1C104Z	CHIP C	0.10UF	Z
C2012			CC73GCH1H331J	CHIP C	330PF	J
C2015			CC73GCH1H330J	CHIP C	33PF	J
C2016			CK73GB1C104K	CHIP C	0.10UF	K
C2019-21			CK73GB1C104Z	CHIP C	0.10UF	Z
C2022			CK73FB1A335K	CHIP C	3.3UF	K
C2023,24			CK73GB1C104Z	CHIP C	0.10UF	Z
C2025,26			CK73GB1H102K	CHIP C	1000PF	K
C2027			CK73GB1C104Z	CHIP C	0.10UF	Z
C2028			CK73GB1H102K	CHIP C	1000PF	K
C2029			CK73GB1C104Z	CHIP C	0.10UF	Z
C2030			CK73GB1H102K	CHIP C	1000PF	K
C2031			CK73GB1C104Z	CHIP C	0.10UF	Z
C2032,33			CC73GCH1H821J	CHIP C	820PF	J
C2034			CC73GCH1H271J	CHIP C	270PF	J
C2036			CC73GCH1H471J	CHIP C	470PF	J
C2037			CC73GCH1H331J	CHIP C	330PF	J
C2038			CC73GCH1H821J	CHIP C	820PF	J
C2040			CK73GB1H392K	CHIP C	3900PF	K
C2041,42			CK73GB1C104Z	CHIP C	0.10UF	Z
C2043,44			CK73GB1C823K	CHIP C	0.082UF	K
C2045			CK73GB1C104K	CHIP C	0.10UF	K
C2501			C90-3923-08	ELECTRO	100UF	6.3WV
C2502			C90-3885-08	ELECTRO	330UF	6.3WV
C2503-05			CK73GB1H103K	CHIP C	0.010UF	K
C2506			CK73GB1C104Z	CHIP C	0.10UF	Z
C2507,08			CK73GB1C104K	CHIP C	0.10UF	K
C2509			CK73GB1C104Z	CHIP C	0.10UF	Z
C2510-12			CK73GB1C104K	CHIP C	0.10UF	K
C3001,02			C90-3885-08	ELECTRO	330UF	6.3WV
C3003-26			CK73GB1C104Z	CHIP C	0.10UF	Z

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C3031			C90-3885-08	ELECTRO	330UF	6.3WV
C3032-34			CK73FB1A105K	CHIP C	1.0UF	K
C3035-43			CK73GB1C104Z	CHIP C	0.10UF	Z
C3044,45			CC73GCH1H220J	CHIP C	22PF	J
C3048			CC73GCH1H220J	CHIP C	22PF	J
C3051-54			CK73GB1C104Z	CHIP C	0.10UF	Z
C3055			C90-3877-08	CHIP TAN	10UF	10WV
C3056			CK73GB1C104Z	CHIP C	0.10UF	Z
C3061-64			CK73GB1C104Z	CHIP C	0.10UF	Z
C3065			C90-3877-08	CHIP TAN	10UF	10WV
C3066			CK73GB1C104Z	CHIP C	0.10UF	Z
C3071			C90-3877-08	CHIP TAN	10UF	10WV
C3072,73			CK73GB1C104Z	CHIP C	0.10UF	Z
C3201			CK73GB1C104Z	CHIP C	0.10UF	Z
C3211			CK73GB1C104Z	CHIP C	0.10UF	Z
C3271,72			CK73GB1C104Z	CHIP C	0.10UF	Z
C3286			C90-3923-08	ELECTRO	100UF	6.3WV
C3500			CE04KW0J331M	ELECTRO	330UF	6.3WV
C3501			CE04KW0J221M	ELECTRO	220UF	6.3WV
C3502			CK73FB1H103Z	CHIP C	0.010UF	Z
C3503			CC73FSL1H150J	CHIP C	15PF	J
C3504-06			CK73FB1H103Z	CHIP C	0.010UF	Z
C3511			CK73FB1H103K	CHIP C	0.010UF	K
C3512-14			CK73FB1H103Z	CHIP C	0.010UF	Z
C3531			CE04KW0J221M	ELECTRO	220UF	6.3WV
C3532			CK73FB1H103Z	CHIP C	0.010UF	Z
C3533			CE04KW1C470M	ELECTRO	47UF	16WV
C3534			CK73FB1H103K	CHIP C	0.010UF	K
C3535			CE04KW0J221M	ELECTRO	220UF	6.3WV
C3536			CK73FB1H103Z	CHIP C	0.010UF	Z
C3537			CE04KW1C100M	ELECTRO	10UF	16WV
C3538			CE04KW0J102M	ELECTRO	1000UF	6.3WV
C3539			CE04KW1C100M	ELECTRO	10UF	16WV
C3540			CE04KW0J102M	ELECTRO	1000UF	6.3WV
C3541,42			CK73FB1H103K	CHIP C	0.010UF	K
C3549,50			CK73FB1H103Z	CHIP C	0.010UF	Z
C3553			CC73FSL1H150J	CHIP C	15PF	J
C3554			CK73FB1H103Z	CHIP C	0.010UF	Z
C3561			CC73FSL1H150J	CHIP C	15PF	J
C3571			CC73FSL1H150J	CHIP C	15PF	J
C3608			CE04KW0J471M	ELECTRO	470UF	6.3WV
C3609			CK73FB1H103Z	CHIP C	0.010UF	Z
C3801			CE04KW1E470M	ELECTRO	47UF	25WV
C3802			CE04KW1C470M	ELECTRO	47UF	16WV
C3803			CE04KW1E470M	ELECTRO	47UF	25WV
C3804,05			CK73FB1H104Z	CHIP C	0.10UF	Z
C3806			CE04KW1C470M	ELECTRO	47UF	16WV
C3811-16			CK73FB1H104Z	CHIP C	0.10UF	Z
C3821-24			CK73FB1H104Z	CHIP C	0.10UF	Z
C3831			CK73FB1H104Z	CHIP C	0.10UF	Z
C3832			CE04KW1C101M	ELECTRO	100UF	16WV
C3833			CE04KW1H4R7M	ELECTRO	4.7UF	50WV
C3834			CE04KW0J101M	ELECTRO	100UF	6.3WV
C3835,36			CE04KW0J331M	ELECTRO	330UF	6.3WV
C3837			CE04KW0J101M	ELECTRO	100UF	6.3WV


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C3838			CE04KW1H4R7M	ELECTRO	4.7UF	50WV
C3839			CK73FB1H104Z	CHIP C	0.10UF	Z
C3840			CE04KW1C101M	ELECTRO	100UF	16WV
C3841-43			CE04KW1A470M	ELECTRO	47UF	10WV
C3844			CE04KW1C220M	ELECTRO	22UF	16WV
C3845			CE04KW0J101M	ELECTRO	100UF	6.3WV
C3846			CE04KW1C220M	ELECTRO	22UF	16WV
C3847			CE04KW0J101M	ELECTRO	100UF	6.3WV
C3848			CE04KW1C220M	ELECTRO	22UF	16WV
C3849			CE04KW0J101M	ELECTRO	100UF	6.3WV
C3871,72			CK73FB1H104Z	CHIP C	0.10UF	Z
C3873			CC73FCH1H101J	CHIP C	100PF	J
C3874			CC73FCH1H471J	CHIP C	470PF	J
C3875			CC73FCH1H101J	CHIP C	100PF	J
C3876			CC73FCH1H471J	CHIP C	470PF	J
C3881,82			CK73FB1H104Z	CHIP C	0.10UF	Z
C3883-86			CC73FCH1H471J	CHIP C	470PF	J
C4201-03			CK73FB1H104Z	CHIP C	0.10UF	Z
C4204			CE04KW1C100M	ELECTRO	10UF	16WV
C4205			CK73GB1C104Z	CHIP C	0.10UF	Z
C4206			CE04KW0J102M	ELECTRO	1000UF	6.3WV
C4207			CE04KW1C100M	ELECTRO	10UF	16WV
C4208			CK73FB1C104Z	CHIP C	0.10UF	Z
C4241			CK73GB1C104Z	CHIP C	0.10UF	Z
C4242			CC73GCH1H390J	CHIP C	39PF	J
C4251			CK73FB1H104Z	CHIP C	0.10UF	Z
C4271-74			CC73FCH1H220J	CHIP C	22PF	J
C4275			CK73FB1H104Z	CHIP C	0.10UF	Z
C4276			CC73FCH1H470J	CHIP C	47PF	J
C4277			CK73FB1H104Z	CHIP C	0.10UF	Z
C4281			CK73FB1H104Z	CHIP C	0.10UF	Z
C4301			CE04EW0J470M	ELECTRO	47UF	6.3WV
C4302			C90-3878-08	CHIP C	100PF	J
C4304			CE04KW1A221M	ELECTRO	220UF	10WV
C4305			CK73FB1H103Z	CHIP C	0.010UF	Z
C4311			CE04EW0J470M	ELECTRO	47UF	6.3WV
C4312			C90-3878-08	CHIP C	100PF	J
C4314			CE04KW1A221M	ELECTRO	220UF	10WV
C4315			CK73FB1H103Z	CHIP C	0.010UF	Z
C4451,52			CQ93FMG1H223J	MYLAR	0.022UF	J
C4461			CK73FB1H102J	CHIP C	1000PF	J
C4462			CC73FCH1H101J	CHIP C	100PF	J
C4463			CK73FB1H104Z	CHIP C	0.10UF	Z
C4464			CE04KW1C470M	ELECTRO	47UF	16WV
C4465			CK73FB1H102J	CHIP C	1000PF	J
C4466			CC73FCH1H101J	CHIP C	100PF	J
C4467			CE04KW1C470M	ELECTRO	47UF	16WV
C4501			CK73FB1H102J	CHIP C	1000PF	J
C4511			CK73FB1H102J	CHIP C	1000PF	J
C4585-89			CK73FB1H104Z	CHIP C	0.10UF	Z
C4591			CE04KW0J101M	ELECTRO	100UF	6.3WV
C4592			CE04KW1E100M	ELECTRO	10UF	25WV
C4701,02			CK73FB1H104Z	CHIP C	0.10UF	Z
C4751			CK73FB1H104Z	CHIP C	0.10UF	Z
C4752			CE04KW0J101M	ELECTRO	100UF	6.3WV

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PARTS LIST

DVF-3020

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C4781 C4782 C4901 C4911 C4912			CE04KW1H4R7M CK73FB1H104Z CE04KW1C470M CE04KW1E221M CE04KW1C470M	ELECTRO 4.7UF 50WV CHIP C 0.10UF Z ELECTRO 47UF 16WV ELECTRO 220UF 25WV ELECTRO 47UF 16WV		
C5201 C5202 C5203-06 C5207 C5208			C90-3924-08 C90-3877-08 CK73GB1C104K C90-3925-08 C90-3879-08	ELECTRO 47UF 6.3WV CHIP TAN 10UF 10WV CHIP C 0.10UF K ELECTRO 10UF 16WV CHIP TAN 10UF 16WV		
C5209 C5210 C5211 C5212 C5213			CC73GCH1H101J CK73GB1C104K CC73GCH1H560J CC73GCH1H101J CK73GB1C104K	CHIP C 100PF J CHIP C 0.10UF K CHIP C 56PF J CHIP C 100PF J CHIP C 0.10UF K		
C5214 C5215 C5216 C5217 C5218,19			C90-3880-08 CK73GB1C104K CK73GB1C104Z CK73GB1A224K CK73GB1C104K	CHIP C 0.18UF K CHIP C 0.10UF K CHIP C 0.10UF Z CHIP C 0.22UF K CHIP C 0.10UF K		
C5220 C5221 C5222 C5223 C5224			CK73GB1H222K CK73GB1H392K CK73GB1C104K CC73GCH1H820J CK73GB1C104K	CHIP C 2200PF K CHIP C 3900PF K CHIP C 0.10UF K CHIP C 82PF J CHIP C 0.10UF K		
C5225 C5226 C5227,28 C5229 C5230			CK73GB1C104Z CK73GB1C104K CK73GB1H104Z C90-3881-08 CK73GB1C104K	CHIP C 0.10UF Z CHIP C 0.10UF K CHIP C 0.10UF Z CHIP C 220PF J CHIP C 0.10UF K		
C5231 C5232 C5233 C5234 C5235			CK73FB1A335K C90-3882-08 C90-3883-08 C90-3882-08 CK73FB1A335K	CHIP C 3.3UF K ELECTRO 33UF 6.3WV CHIP C 0.33UF K ELECTRO 33UF 6.3WV CHIP C 3.3UF K		
C5236 C5237 C5238 C5239-41 C5242			CK73GB1C104K CC73GCH1H102K CK73GB1A224K CK73GB1C104Z CC73GCH1H121J	CHIP C 0.10UF K CHIP C 1000PF K CHIP C 0.22UF K CHIP C 0.10UF Z CHIP C 120PF J		
C5243,44 C5245,46 C5247,48 C5249 C6001			C90-3881-08 CK73GB1C104K CK73GB1C104Z C90-3884-08 CE04EW0J331M	CHIP C 220PF J CHIP C 0.10UF K CHIP C 0.10UF Z CHIP C 680PF J ELECTRO 330UF 6.3WV		
C6002 C6003 C6004 C6005 C6006-10			CK73FB1H104Z CE04KW1H100M CK73FB1H104Z CE04KW0J470M CK73FB1H104Z	CHIP C 0.10UF Z ELECTRO 10UF 50WV CHIP C 0.10UF Z ELECTRO 47UF 6.3WV CHIP C 0.10UF Z		
C6011 C6013,14 C6021 C6041-43 C6044,45			CC73FCH1H221J CK73FB1H104Z CK73FB1H103Z CK73FB1H103Z CK73FB1H104Z	CHIP C 220PF J CHIP C 0.10UF Z CHIP C 0.010UF Z CHIP C 0.010UF Z CHIP C 0.10UF Z		

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C6201,02 C6203 C6204-07 C6251 C6252			CK73GB1C104Z C90-3882-08 CK73GB1C104Z CK73GB1C104Z C90-3882-08	CHIP C 0.10UF Z ELECTRO 33UF 6.3WV CHIP C 0.10UF Z CHIP C 0.10UF Z ELECTRO 33UF 6.3WV		
C6253 C6254 C6255 C6301 C6302			C90-3923-08 C90-3885-08 CK73GB1H103K CC73GCH1H101J CK73GB1C104K	ELECTRO 100UF 6.3WV ELECTRO 330UF 6.3WV CHIP C 0.010UF K CHIP C 100PF J CHIP C 0.10UF K		
C6303,04 C6501 C6502-05 C6506 C6507			CK73GB1C104Z C90-3882-08 CK73GB1C104Z C90-3877-08 CK73GB1C104Z	CHIP C 0.10UF Z ELECTRO 33UF 6.3WV CHIP C 0.10UF Z CHIP TAN 10UF 10WV CHIP C 0.10UF Z		
C6511 C6512 C6513 C6514 C6521,22			CK73GB1C104Z C90-3877-08 CK73GB1C104Z C90-3882-08 CK73GB1C104Z	CHIP C 0.10UF Z CHIP TAN 10UF 10WV CHIP C 0.10UF Z ELECTRO 33UF 6.3WV CHIP C 0.10UF Z		
C6541,42 C6544 C6564,65 C6584,85 C6601			CC73GCH1H120J CK73GB1C104Z CK73GB1C104Z CK73GB1C104Z CK73GB1C104Z	CHIP C 12PF J CHIP C 0.10UF Z CHIP C 0.10UF Z CHIP C 0.10UF Z CHIP C 0.10UF Z		
C7001,02 C7003-19 C7020 C7301,02			C90-3923-08 CK73GB1C104Z C90-3888-08 CK73GB1C104Z	ELECTRO 100UF 6.3WV CHIP C 0.10UF Z CHIP C 0.01UF Z CHIP C 0.10UF Z		
FP2501 FP2511 FP2601 FP4701 FP5201			E40-8545-08 E40-8545-08 E40-8545-08 E40-8547-08 E40-8592-08	CONNECTOR 7P VJS4241B007W CONNECTOR 7P VJS4241B007W CONNECTOR 7P VJS4241B007W CONNECTOR 6P VJS3537A006G CONNECTOR 21P VJS3913A021		
FP6401 J3871 J3881 JK3541 JK4501			E40-8547-08 E40-8598-08 E40-8598-08 E40-8534-08 E63-1134-08	CONNECTOR 6P VJS3537A006G CONNECTOR 21P VJS3921 CONNECTOR 21P VJS3921 Y/C CONNECTOR-1,VJJ0544 RCA JACK (6P) VJJ0644		
⚠ P1001 ⚠ PP1101 PP3201 PP3801 PP4201		*	E40-8593-08 E40-8536-08 E40-8594-08 E40-8615-08 E40-8594-08	CONNECTOR (FL) VJS3166 CONNECTOR (ML)18P,VJP4223E018B CONNECTOR (ML)26P,VJP4222E026B CONNECTOR 15P VJP3042G015W CONNECTOR (ML)26P,VJP4222E026B		
PS1101 PS3201 PS3801 PS4201 PS6201		*	E40-8538-08 E40-8597-08 E40-8616-08 E40-8597-08 E40-8540-08	CONNECTOR (FL)18P,VJS4223A018T CONNECTOR (FL)26P,VJS4222A026B CONNECTOR 15P VJS0342F015W CONNECTOR (FL)26P,VJS4222A026B CONNECTOR (FL)10P,VJS2961A010		
⚠ F1001 ⚠ PR1161 ⚠ PR1171 ⚠ PR4911			F50-0167-08 F09-0147-08 F50-0163-08 F50-0163-08	FUSE XBA2C16TB0 IC PROTECTOR VSF0015A025 IC PROTECTOR VSF0015A10 IC PROTECTOR VSF0015A10		
⚠ L1001,02			L79-1257-08	LINE FILTER ELF15N005A		

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Ref. No	Add-ress	New Parts	Parts No.	Description	Desti-nation	Re-marks
L1111 L1112 L1131 L1141 L1151			L90-0349-08 L33-0595-08 L90-0333-08 L90-0333-08 L90-0350-08	COIL INDUCTOR COIL COIL COIL	VLQ0655K100 ELELN100KA VLQEL05S330K VLQEL05S330K VLQ0655K220	
L2001,02 L3281 L3501 L3531,32 L3801			L33-0572-08 L33-0572-08 L90-0336-08 L90-0336-08 L90-0336-08	COIL COIL INDUCTOR INDUCTOR INDUCTOR	VLQ0779K100 VLQ0779K100 VLQEL05S220J VLQEL05S220J VLQEL05S220J	
L3871,72 L3881,82 L4201 L4781 L5201,02			L90-0347-08 L90-0347-08 L90-0351-08 L90-0336-08 L33-0572-08	COIL COIL COIL COIL COIL	VLQEL05S471J VLQEL05S471J VLQEL05S101J VLQEL05S220J VLQ0779K100	
L6001 L6002 L6501,02 L7001 LB1021,22			L90-0351-08 L90-0352-08 L90-0348-08 L33-0572-08 L90-0339-08	COIL COIL COIL COIL COIL	VLQEL05S101J VLQEL05S221J ELJFC220KB VLQ0779K100 VLP0083	
LB1024 LB2501-08 LB2509-13 LB2514-17 LB2518-21			L90-0340-08 L90-0341-08 L90-0342-08 L90-0341-08 L90-0342-08	COIL CHIP INDUCTOR COIL CHIP INDUCTOR COIL	VLP0056 VLP0323A601T JALBK2HS470T VLP0323A601T JALBK2HS470T	
LB3001 LB3201,02 LB3206,07 LB3209 LB3543,44			L92-0084-08 L90-0341-08 L90-0341-08 L90-0341-08 L90-0343-08	COIL CHIP INDUCTOR CHIP INDUCTOR CHIP INDUCTOR COIL	VLP0155 VLP0323A601T VLP0323A601T VLP0323A601T VLP0145	
LB3546 LB3871-74 LB3881 LB4001-03 LB4006-08			L90-0343-08 L90-0343-08 L90-0343-08 L92-0084-08 L90-0341-08	COIL COIL COIL COIL CHIP INDUCTOR	VLP0145 VLP0145 VLP0145 VLP0155 VLP0323A601T	
LB4010,11 LB4013,14 LB4016-19 LB4241 LB4501			L90-0341-08 L90-0341-08 L90-0341-08 L90-0354-08 L90-0343-08	CHIP INDUCTOR CHIP INDUCTOR CHIP INDUCTOR COIL COIL	VLP0323A601T VLP0323A601T VLP0323A601T VLP0153 VLP0145	
LB4511 LB5201,02 LB5203 LB5204-10 LB5211			L90-0343-08 L90-0341-08 L90-0342-08 L90-0341-08 L90-0342-08	COIL CHIP INDUCTOR COIL CHIP INDUCTOR COIL	VLP0145 VLP0323A601T JALBK2HS470T VLP0323A601T JALBK2HS470T	
LB5212-14 LB5215 LB5216 LB5217 LB5218			L90-0341-08 L90-0342-08 L90-0341-08 L90-0342-08 L90-0341-08	CHIP INDUCTOR COIL CHIP INDUCTOR COIL CHIP INDUCTOR	VLP0323A601T VLP0323A601T VLP0323A601T JALBK2HS470T VLP0323A601T	
LB5219 LB6017 LB6213 LB6501,02 LB6504			L90-0342-08 L90-0354-08 L92-0084-08 L90-0341-08 L92-0084-08	COIL COIL COIL CHIP INDUCTOR COIL	JALBK2HS470T VLP0153 VLP0155 VLP0323A601T VLP0155	

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LB6511 LB6521 LB6522 LB6523 LB6525,26			L90-0341-08 L90-0341-08 L92-0084-08 L90-0341-08 L92-0084-08	CHIP INDUCTOR CHIP INDUCTOR COIL CHIP INDUCTOR COIL	VLP0323A601T VLP0323A601T VLP0155 VLP0323A601T VLP0155	
LB6542 LB6543 LB6562 LB6563,64 LB6565			L90-0341-08 L92-0084-08 L90-0341-08 L92-0084-08 L90-0341-08	CHIP INDUCTOR COIL CHIP INDUCTOR COIL CHIP INDUCTOR	VLP0323A601T VLP0155 VLP0323A601T VLP0155 VLP0323A601T	
LB6582 LB6583 LB6584 LB6585 LB6586			L92-0084-08 L90-0314-08 L92-0084-08 L90-0314-08 L92-0084-08	COIL COIL COIL COIL COIL	VLP0155 VLP0323A601T VLP0155 VLP0323A601T VLP0155	
Δ T1021 X6001 X6501			L07-2856-08 L78-0710-08 L77-2280-08	POWER TRSNSFORMER,ETS29AD4H6AC CERAMIC OSCILLATOR,EF0EC8004A4 CRYSTAL OSCILLATOR,VXS1044		
K3201 K3203 K3801,02 K3871 K4201			RK73GB1J000J RK73GB1J000J RK73FB2A000J RK73FB2A000J RK73FB2A000J	CHIP R CHIP R CHIP R CHIP R CHIP R	0.0 J 1/16W 0.0 J 1/16W 0.0 J 1/10W 0.0 J 1/10W 0.0 J 1/10W	
K4232 K4241 K4591 K4751 K5201-05			RK73FB2A000J RK73FB2A000J RK73FB2A000J RK73GB1J000J RK73GB1J000J	CHIP R CHIP R CHIP R CHIP R CHIP R	0.0 J 1/10W 0.0 J 1/10W 0.0 J 1/10W 0.0 J 1/10W 0.0 J 1/16W	
K6003 K6008 K6015 K6021,22 K6023			RK73FB2A000J RK73FB2A000J RK73FB2A000J RK73FB2A000J RK73FB2A000J	CHIP R CHIP R CHIP R CHIP R CHIP R	0.0 J 1/10W 0.0 J 1/10W 0.0 J 1/10W 0.0 J 1/10W 0.0 J 1/10W	
K6541,2 K7002 L2501 L3001 L6201			RK73GB1J000J RK73GB1J000J R90-1308-08 R90-1308-08 R90-1308-08	CHIP R CHIP R CHIP R CHIP R CHIP R	0.0 J 1/16W 0.0 J 1/16W 0.0 J 1/4W 0.0 J 1/4W 0.0 J 1/4W	
L7002 R1002 R1021 R1023 R1033			R90-1308-08 RD14BB2H334K R92-1930-08 R92-1931-08 RD14BB2H100J	CHIP R RD METAL FILM METAL FILM RD	0.0 J 1/4W 330K K 1/2W 39K J 1W 0.82 J 1W 10 J 1/2W	
R1055 R1056 R2001 R2003 R2004			R92-1932-08 RD14BB2H475J RK73GB1J103J RK73GB1J223J RK73GB1J123J	RD RD CHIP R CHIP R CHIP R	3.9M J 1/2W 4.7M J 1/2W 10K J 1/16W 22K J 1/16W 12K J 1/16W	
R2005 R2006 R2008-10 R2011 R2012			RK73GB1J183J RK73GB1J822J RK73GB1J473J R90-0996-08 RK73GB1J472J	CHIP R CHIP R CHIP R RADDER RESISTOR,EXBV4V473J CHIP R	18K J 1/16W 8.2K J 1/16W 47K J 1/16W 4.7K J 1/16W	
R2014			RK73GB1J472J	CHIP R	4.7K J 1/16W	

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PARTS LIST

DVF-3020

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Ref. No	Add-ress	New Parts	Parts No.	Description	Desti-nation	Re-marks
R2016			RK73GB1J102J	CHIP R 1.0K J 1/16W		
R2018			R90-1307-08	RADDER RESISTOR,EXBV8VR000		
R2019			RK73GB1J000J	CHIP R 0.0 J 1/16W		
R2020-23			RK73GB1J103J	CHIP R 10K J 1/16W		
R2024			RK73GB1J333J	CHIP R 33K J 1/16W		
R2025			RK73GB1J223J	CHIP R 22K J 1/16W		
R2026			RK73GB1J000J	CHIP R 0.0 J 1/16W		
R2027			RK73GB1J123J	CHIP R 12K J 1/16W		
R2028			RK73GB1J473J	CHIP R 47K J 1/16W		
R2029,30			RK73GB1J103J	CHIP R 10K J 1/16W		
R2031			RK73GB1J683J	CHIP R 68K J 1/16W		
R2032			RK73GB1J103J	CHIP R 10K J 1/16W		
R2033			RK73GB1J000J	CHIP R 0.0 J 1/16W		
R2034			RK73GB1J103J	CHIP R 10K J 1/16W		
R2035			RK73GB1J333J	CHIP R 33K J 1/16W		
R2036,37			RK73GB1J103J	CHIP R 10K J 1/16W		
R2038			RK73GB1J683J	CHIP R 68K J 1/16W		
R2039			RK73GB1J362J	CHIP R 3.6K J 1/16W		
R2501			RK73GB1J473J	CHIP R 47K J 1/16W		
R2502,03			RK73GB1J183J	CHIP R 18K J 1/16W		
R2504-06			RK73GB1J103J	CHIP R 10K J 1/16W		
R2507,08			RK73GB1J123J	CHIP R 12K J 1/16W		
R2509			RK73GB1J273J	CHIP R 27K J 1/16W		
R2510,11			RK73GB1J271J	CHIP R 27K J 1/16W		
R2512			RK73GB1J273J	CHIP R 27K J 1/16W		
R2513			RK73GB1J103J	CHIP R 10K J 1/16W		
R2515			R92-1933-08	RD 0.39 J 1/4W		
R2516,17			RK73GB1J123J	CHIP R 12K J 1/16W		
R2518,19			RK73GB1J243J	CHIP R 24K J 1/16W		
R2520			RK73GB1J562J	CHIP R 5.6K J 1/16W		
R2521			RK73GB1J563J	CHIP R 56K J 1/16W		
R2522-24			RK73GB1J103J	CHIP R 10K J 1/16W		
R3001			RK73GB1J220J	CHIP R 22 J 1/16W		
R3002			RK73GB1J000J	CHIP R 0.0 J 1/16W		
R3003			RK73GB1J392J	CHIP R 3.9K J 1/16W		
R3005			RK73GB1J103J	CHIP R 10K J 1/16W		
R3006			RK73GB1J473J	CHIP R 47K J 1/16W		
R3008			RK73GB1J473J	CHIP R 47K J 1/16W		
R3009,10			RK73GB1J221J	CHIP R 220 J 1/16W		
R3013			RK73GB1J221J	CHIP R 220 J 1/16W		
R3031,32			RK73GB1J752J	CHIP R 7.5K J 1/16W		
R3033			RK73GB1J684J	CHIP R 680K J 1/16W		
R3035-38			RK73GB1J102J	CHIP R 1.0K J 1/16W		
R3039,40			RK73GB1J102J	CHIP R 1.0K J 1/16W		
R3201			RK73GB1J750J	CHIP R 75 J 1/16W		
R3202			RK73GB1J330J	CHIP R 33 J 1/16W		
R3203			RK73GB1J102J	CHIP R 1.0K J 1/16W		
R3211			RK73GB1J750J	CHIP R 75 J 1/16W		
R3212			RK73GB1J330J	CHIP R 33 J 1/16W		
R3213			RK73GB1J102J	CHIP R 1.0K J 1/16W		
R3501			RK73FB2A561J	CHIP R 560 J 1/10W		
R3502			RK73FB2A103J	CHIP R 10K J 1/10W		
R3503			RK73FB2A101J	CHIP R 100 J 1/10W		
R3504			RK73FB2A222J	CHIP R 2.2K J 1/10W		
R3505			RK73FB2A330J	CHIP R 33 J 1/10W		

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R3506			RK73FB2A182J	CHIP R 1.8K J 1/10W		
R3507			RK73FB2A330J	CHIP R 33 J 1/10W		
R3508			RK73FB2A222J	CHIP R 2.2K J 1/10W		
R3511			RK73FB2A561J	CHIP R 560 J 1/10W		
R3512			RK73FB2A272J	CHIP R 2.7K J 1/10W		
R3514,15			RK73FB2A223J	CHIP R 22K J 1/10W		
R3516			RK73FB2A222J	CHIP R 2.2K J 1/10W		
R3517			RK73FB2A330J	CHIP R 33 J 1/10W		
R3518			RK73FB2A331J	CHIP R 330 J 1/10W		
R3519			RK73FB2A330J	CHIP R 33 J 1/10W		
R3520			RK73FB2A222J	CHIP R 2.2K J 1/10W		
R3521			RK73FB2A472J	CHIP R 4.7K J 1/10W		
R3527			RK73FB2A000J	CHIP R 0.0 J 1/10W		
R3531-33			RK73FB2A102J	CHIP R 1.0K J 1/10W		
R3534			RK73FB2A471J	CHIP R 470 J 1/10W		
R3535			RK73FB2A103J	CHIP R 10K J 1/10W		
R3543,44			R92-1934-08	CHIP R 71.5 J 1/10W		
R3546			RK73FB2A750J	CHIP R 75 J 1/10W		
R3551			RK73FB2A561J	CHIP R 560 J 1/10W		
R3552			RK73FB2A183J	CHIP R 18K J 1/10W		
R3553			RK73FB2A471J	CHIP R 470 J 1/10W		
R3554			RK73FB2A223J	CHIP R 22K J 1/10W		
R3555			RK73FB2A331J	CHIP R 330 J 1/10W		
R3609			RK73FB2A221J	CHIP R 220 J 1/10W		
R3610,11			RK73FB2A103J	CHIP R 10K J 1/10W		
R3612			RK73FB2A102J	CHIP R 1.0K J 1/10W		
R3811-14			RK73FB2A151J	CHIP R 150 J 1/10W		
R3822			RK73FB2A000J	CHIP R 0.0 J 1/10W		
R3824			RK73FB2A000J	CHIP R 0.0 J 1/10W		
R3826			RK73FB2A000J	CHIP R 0.0 J 1/10W		
R3827,28			RK73FB2A151J	CHIP R 150 J 1/10W		
R3841			RK73FB2A333J	CHIP R 33K J 1/10W		
R3842			RK73FB2A562J	CHIP R 5.6K J 1/10W		
R3843			RK73FB2A333J	CHIP R 33K J 1/10W		
R3844			RK73FB2A562J	CHIP R 5.6K J 1/10W		
R3845			RK73FB2A333J	CHIP R 33K J 1/10W		
R3846			RK73FB2A562J	CHIP R 5.6K J 1/10W		
R3847-50			RK73FB2A472J	CHIP R 4.7K J 1/10W		
R3851			RK73FB2A332J	CHIP R 3.3K J 1/10W		
R3852			RK73FB2A562J	CHIP R 5.6K J 1/10W		
R3853-56			RK73FB2A332J	CHIP R 3.3K J 1/10W		
R3857			RK73FB2A680J	CHIP R 68 J 1/10W		
R3858,59			RK73FB2A472J	CHIP R 4.7K J 1/10W		
R3860			RK73FB2A332J	CHIP R 3.3K J 1/10W		
R3861			RK73FB2A182J	CHIP R 1.8K J 1/10W		
R3862			RK73FB2A562J	CHIP R 5.6K J 1/10W		
R3863,64			RK73FB2A332J	CHIP R 3.3K J 1/10W		
R3865			RK73FB2A562J	CHIP R 5.6K J 1/10W		
R3866			RK73FB2A472J	CHIP R 4.7K J 1/10W		
R3867			RK73FB2A562J	CHIP R 5.6K J 1/10W		
R3868			RK73FB2A332J	CHIP R 3.3K J 1/10W		
R3869			RK73FB2A471J	CHIP R 470 J 1/10W		
R3871			RK73FB2A821J	CHIP R 820 J 1/10W		
R3872			RK73FB2A101J	CHIP R 100 J 1/10W		
R3874			RK73FB2A821J	CHIP R 820 J 1/10W		

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R3875			RK73FB2A101J	CHIP R	100	J 1/10W
R3876-80			RK73FB2A750J	CHIP R	75	J 1/10W
R3882,83			RK73FB2A101J	CHIP R	100	J 1/10W
R3885,86			RK73FB2A101J	CHIP R	100	J 1/10W
R3887			RK73FB2A000J	CHIP R	0.0	J 1/10W
R3888			RK73FB2A750J	CHIP R	75	J 1/10W
R3889			RK73FB2A000J	CHIP R	0.0	J 1/10W
R3890			RK73FB2A750J	CHIP R	75	J 1/10W
R3891			RK73FB2A000J	CHIP R	0.0	J 1/10W
R3892			RK73FB2A750J	CHIP R	75	J 1/10W
R3893,94			RK73FB2A750J	CHIP R	75	J 1/10W
R4231			RK73FB2A222J	CHIP R	2.2K	J 1/10W
R4241			RK73GB1J151J	CHIP R	150	J 1/16W
R4251,52			RK73FB2A472J	CHIP R	4.7K	J 1/10W
R4271			RK73FB2A221J	CHIP R	220	J 1/10W
R4272-74			RK73GB1J221J	CHIP R	220	J 1/16W
R4276			RK73FB2A151J	CHIP R	150	J 1/10W
R4281			RK73GB1J331J	CHIP R	330	J 1/16W
R4301			RK73FB2A101J	CHIP R	100	J 1/10W
R4302			RK73FB2A103J	CHIP R	10K	J 1/10W
R4303			RK73FB2A203J	CHIP R	20K	J 1/10W
R4311			RK73FB2A101J	CHIP R	100	J 1/10W
R4312			RK73FB2A103J	CHIP R	10K	J 1/10W
R4313			RK73FB2A203J	CHIP R	20K	J 1/10W
R4461			RK73FB2A752J	CHIP R	7.5K	J 1/10W
R4462			RK73FB2A103J	CHIP R	10K	J 1/10W
R4463			RK73FB2A752J	CHIP R	7.5K	J 1/10W
R4464			RK73FB2A473J	CHIP R	47K	J 1/10W
R4465			RK73FB2A752J	CHIP R	7.5K	J 1/10W
R4466			RK73FB2A103J	CHIP R	10K	J 1/10W
R4467			RK73FB2A752J	CHIP R	7.5K	J 1/10W
R4468			RK73FB2A473J	CHIP R	47K	J 1/10W
R4501			RK73FB2A821J	CHIP R	820	J 1/10W
R4502			RK73FB2A221J	CHIP R	220	J 1/10W
R4503			RK73FB2A821J	CHIP R	820	J 1/10W
R4508,09			RK73FB2A821J	CHIP R	820	J 1/10W
R4511			RK73FB2A821J	CHIP R	820	J 1/10W
R4512			RK73FB2A221J	CHIP R	220	J 1/10W
R4513			RK73FB2A821J	CHIP R	820	J 1/10W
R4518			RK73FB2A821J	CHIP R	820	J 1/10W
R4519			RK73FB2A821J	CHIP R	820	J 1/10W
R4591			RK73FB2A223J	CHIP R	22K	J 1/10W
R4592			RK73FB2A333J	CHIP R	33K	J 1/10W
R4593			RK73FB2A331J	CHIP R	330	J 1/10W
R4594			RK73FB2A103J	CHIP R	10K	J 1/10W
R4595			RK73EB2B102J	CHIP R	1.0K	J 1/8W
R4596			RK73FB2A223J	CHIP R	22K	J 1/10W
R4597			RK73FB2A221J	CHIP R	220	J 1/10W
R4598			RK73FB2A223J	CHIP R	22K	J 1/10W
R4599			RK73FB2A103J	CHIP R	10K	J 1/10W
R4901			RK73FB2A822J	CHIP R	8.2K	J 1/10W
R4902			RK73FB2A152J	CHIP R	1.5K	J 1/10W
R4903			RK73FB2A333J	CHIP R	33K	J 1/10W
R4911			RK73FB2A822J	CHIP R	8.2K	J 1/10W
R4912			RK73FB2A331J	CHIP R	330	J 1/10W

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Ref. No	Add-ress	New Parts	Parts No.	Description	Desti-nation	Re-marks
R4913			RK73FB2A103J	CHIP R	10K	J 1/10W
R5201			R92-1935-08	RD	27	J 1/2W
R5202			RK73GB1J2R2J	CHIP R	2.2	J 1/16W
R5203			RK73GB1J223J	CHIP R	22K	J 1/16W
R5205,06			RK73GB1J103J	CHIP R	10K	J 1/16W
R5208			RK73GB1J823J	CHIP R	82K	J 1/16W
R5209			RK73GB1J123J	CHIP R	12K	J 1/16W
R5210			RK73GB1J272J	CHIP R	2.7K	J 1/16W
R5211			RK73GB1J393J	CHIP R	39K	J 1/16W
R5212			RK73GB1J123J	CHIP R	12K	J 1/16W
R5213			RK73GB1J393J	CHIP R	39K	J 1/16W
R5214			RK73GB1J223J	CHIP R	22K	J 1/16W
R5215			RK73GB1J822J	CHIP R	8.2K	J 1/16W
R5216			RK73GB1J183J	CHIP R	18K	J 1/16W
R5217			RK73GB1J223J	CHIP R	22K	J 1/16W
R5218			RK73GB1J103J	CHIP R	10K	J 1/16W
R5219			RK73GB1J153J	CHIP R	15K	J 1/16W
R5220,21			RK73GB1J474J	CHIP R	470K	J 1/16W
R5222			RK73GB1J332J	CHIP R	3.3K	J 1/16W
R5223			RK73GB1J752J	CHIP R	7.5K	J 1/16W
R5224			RK73GB1J154J	CHIP R	150K	J 1/16W
R5225			RK73GB1J564J	CHIP R	560K	J 1/16W
R5226			RK73GB1J155J	CHIP R	1.5M	J 1/16W
R6005-11			RK73FB2A473J	CHIP R	47K	J 1/10W
R6015			RK73FB2A473J	CHIP R	47K	J 1/10W
R6019			RK73FB2A221J	CHIP R	220	J 1/10W
R6023-25			RK73FB2A221J	CHIP R	220	J 1/10W
R6029-33			RK73FB2A104J	CHIP R	100K	J 1/10W
R6035,36			RK73FB2A221J	CHIP R	220	J 1/10W
R6037-39			RK73FB2A103J	CHIP R	10K	J 1/10W
R6041-43			RK73FB2A103J	CHIP R	10K	J 1/10W
R6044			RK73FB2A821J	CHIP R	820	J 1/10W
R6045			RK73FB2A102J	CHIP R	1.0K	J 1/10W
R6046			RK73FB2A122J	CHIP R	1.2K	J 1/10W
R6049			RK73FB2A821J	CHIP R	820	J 1/10W
R6050			RK73FB2A102J	CHIP R	1.0K	J 1/10W
R6052			RK73FB2A821J	CHIP R	820	J 1/10W
R6053			RK73FB2A102J	CHIP R	1.0K	J 1/10W
R6054-57			RK73FB2A221J	CHIP R	220	J 1/10W
R6061-63			RK73FB2A221J	CHIP R	220	J 1/10W
R6064			RK73FB2A473J	CHIP R	47K	J 1/10W
R6201			RK73GB1J103J	CHIP R	10K	J 1/16W
R6202-04			RK73GB1J473J	CHIP R	47K	J 1/16W
R6205			RK73GB1J222J	CHIP R	2.2K	J 1/16W
R6206-08			RK73GB1J473J	CHIP R	47K	J 1/16W
R6209			RK73GB1J103J	CHIP R	10K	J 1/16W
R6301			RK73GB1J103J	CHIP R	10K	J 1/16W
R6302,03			RK73GB1J472J	CHIP R	4.7K	J 1/16W
R6501,02			RK73GB1J103J	CHIP R	10K	J 1/16W
R6542			RK73GB1J105J	CHIP R	1.0M	J 1/16W
R6544			RK73GB1J101J	CHIP R	100	J 1/16W
R7001,02			RK73GB1J102J	CHIP R	1.0K	J 1/16W
R7003			RK73GB1J473J	CHIP R	47K	J 1/16W
R7006			RK73GB1J473J	CHIP R	47K	J 1/16W
RA2501,02			R90-0997-08	RADDER RESISTOR,EXBV4V103J		

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RA3001 RA3002 RA6201 RA6203-06 RA7001,02			R90-0995-08 R90-0996-08 R90-0997-08 R90-0996-08 R90-0995-08	RADDER RESISTOR,EXBV8V473J RADDER RESISTOR,EXBV4V473J RADDER RESISTOR,EXBV4V103J RADDER RESISTOR,EXBV4V473J RADDER RESISTOR,EXBV8V473J		
VR3501 VR3511 W801-823 W825-838 W841-847			R32-0091-08 R32-0091-08 RK73FB2A000J RK73FB2A000J RK73FB2A000J	TRIMMER POT TRIMMER POT CHIP R CHIP R CHIP R	EVNCYAA03B13 EVNCYAA03B13 0.0 J 1/10W 0.0 J 1/10W 0.0 J 1/10W	
W850-861 W863-866			RK73FB2A000J RK73FB2A000J	CHIP R CHIP R	0.0 J 1/10W 0.0 J 1/10W	
S6001-03 S6005-07 S6401			S70-0080-08 S70-0081-08 S70-0082-08	SWITCH SWITCH SWITCH	EVQ11A07R EVQ11U07M EVQQS307K	
△ D1001 D1011 D1021 D1022 D1031			ENC471D5ATRB S1WBA80 AP01C RD100E AU01Z	DIODE DIODE DIODE ZENER DIODE DIODE	ENC471D5ATRB	
D1032 D1041 D1051 D1052 D1111			MA7300B MA165 MA700 MA4200H MA7D55	DIODE DIODE DIODE DIODE DIODE		
D1121 D1131 D1141 D1151,52 D1161			11ES1 11EQS10 11EQS10 11EQS10 AU01Z	DIODE DIODE DIODE DIODE DIODE		
D1162 D1171 D3001 D3002 D3071			MA4030M AK04 MA8030-H MA111 MA111	DIODE DIODE DIODE DIODE DIODE		
D3851 D3852 D3861 D3862 D3863			MA152A MA8130 MA152WK MA152A MA8120-L	DIODE DIODE DIODE DIODE DIODE		
D4591 D4592 D4593 D4594 D4595			1SS355 MA3047M 1SS355 MA152A MA152WA	DIODE ZENER DIODE DIODE DIODE DIODE		
D4596 D4597 D4901 D6002-04 D6013,14			MA153A 1SS355 AK04WS 1SS355 LN28RCPL	DIODE DIODE DIODE DIODE DIODE		
D6311 D6511 DL6001 IC1021			MA728 MA111 VSL0519 STRM6559LF	DIODE DIODE DISPLAY TUBE IC		

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IC1101 IC1121 IC1151 IC2001 IC2501			UPC1093J PQ3RD13 SI-3090FLF11 MN67705EA AN8485SB	IC(REGULATOR) IC IC IC IC		
IC2511 IC3001 IC3051 IC3061 IC3071			BA5983FM MN677511DE MNX7160BT1 HM5241605T12 PQ1R33	IC(ANALOGUE IC) IC IC IC IC		
IC3531 IC3801 IC3811 IC3812,13 IC3821,22			AN3581S AN79L05M NJM2267M MC14053BF MC14053BF	IC IC IC IC IC		
IC3831 IC3841 IC4201 IC4241 IC4251			NJM2267M BA7660FS PCM1734UB TC7ST04FU BU2092F	IC IC IC(DAC) IC IC		
IC4266 IC4306 IC4461 IC4781 IC4901			TC74HCT7007A NJM4580M NJM4580M W02-2736-08 PQ09DZ1U	IC IC IC OPTICAL RECEIVING,T0TX178A IC		
IC5201 IC5202 IC6001 IC6002 IC6003			RN5RZ33BA AN8706FHQ MN1872423CE PST7040-MT PNA4611M02VT	IC IC IC IC IR RECEIVER UNIT		
IC6004,05 IC6201 IC6301 IC6302 IC6303			AHCT1G08DBV MN102L25DFA PST596JNR TFVT400FTC23 AT25020NS127	IC IC IC IC IC		
IC6501 IC6511 IC6521 IC6522 IC6542			BU2185F PQ1R33 TC7WH157FU TC7WH74FU AHC1GU04HDCK	IC IC IC IC IC		
IC6562 IC6563 IC6582 IC6583 IC7001			AHC1GU04HDCK TC7WH74FU AHC1GU04HDCK TC7WH74FU MN103007BGA	IC IC IC IC IC		
IC7301 IC7302 △ Q1041 Q1111 Q3201			TC7SH08FU TC7SH32FU PS2561L1 2SJ525 2SB1218A	IC(2ch AND GATE) IC PHOTO COUPLER PS2561L1 TRANSISTOR TRANSISTOR		
Q3211 Q3501 Q3502 Q3503 Q3511			2SB1218A 2SB709A 2SD601A 2SB709A 2SB709A	TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR		

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Ref. No	Add-ress	New Parts	Parts No.	Description	Desti-nation	Re-marks
Q3512			2SD601A	TRANSISTOR		
Q3513			2SB709A	TRANSISTOR		
Q3551			2SD601A	TRANSISTOR		
Q3603			2SA1022-B	TRANSISTOR		
Q3851			2SB710-R	TRANSISTOR		
Q3852			XN4502	TRANSISTOR		
Q3853			XN4401	TRANSISTOR		
Q3861			2SD602A-R	TRANSISTOR		
Q3862			XN4402	TRANSISTOR		
Q3863			2SB710-R	TRANSISTOR		
Q3864			2SD602A-R	TRANSISTOR		
Q4501,02			2SD1328	TRANSISTOR		
Q4511,12			2SD1328	TRANSISTOR		
Q4901			2SB709A	TRANSISTOR		
Q4911			2SB1434	TRANSISTOR		
Q4912			2SB1320A-R	TRANSISTOR		
Q4913			2SD601A	TRANSISTOR		
Q5201			2SB1115-T	TRANSISTOR		
Q6009			2SD1996-S	TRANSISTOR		
QR1111			UN4213	TRANSISTOR-RESISTOR		
QR2001			UN5213	TRANSISTOR-RESISTOR		
QR2501,02			XP1213	TRANSISTOR-RESISTOR		
QR2503			UN5213	TRANSISTOR-RESISTOR		
QR3521			UN2212	TRANSISTOR-RESISTOR		
QR3841			XN1213	TRANSISTOR-RESISTOR		
QR3842			UN2213	TRANSISTOR-RESISTOR		
QR3843			XN1213	TRANSISTOR-RESISTOR		
QR3851			UN2217	TRANSISTOR-RESISTOR		
QR3852			XN1213	TRANSISTOR-RESISTOR		
QR3853			XN1112	TRANSISTOR-RESISTOR		
QR3861			UN2217	TRANSISTOR-RESISTOR		
QR3862,63			XN1213	TRANSISTOR-RESISTOR		
QR4591			UN2211	TRANSISTOR-RESISTOR		
QR4592			UN2115	TRANSISTOR-RESISTOR		
QR4593			UN2211	TRANSISTOR-RESISTOR		
QR4594,95			UN2111	TRANSISTOR-RESISTOR		
QR5201,02			UN5212	TRANSISTOR-RESISTOR		
QR5203			UN5112	TRANSISTOR-RESISTOR		
QR6002,03			DTA123JK	TRANSISTOR-RESISTOR		
QR6004			UN2212	TRANSISTOR-RESISTOR		
QR6008			UN2111	TRANSISTOR-RESISTOR		
QR6311			UN5212	TRANSISTOR-RESISTOR		
W077			AK04WS	DIODE	AK04WS	
MECHANISM						
41	1B		A11-1171-08	INTERMEDIATE CHASSIS,VMD3270		
42	1A		J99-0819-08	TRAY	VMD3265	
43	2A		D13-1978-08	PULLEY GEAR	VDG1308	
44	2A		D13-1979-08	DECELERATION GEAR,VDG1309		
45	2A		D13-1980-08	DRIVE GEAR	VDG1310	
46	2B		A11-1172-08	VERTCAL CAM	VDK0156	
47	2A		D16-0745-08	BELT	VDV0373	
49	3B		A10-3504-08	LOADING BASE	VMD3266	
50	1A		A11-1173-08	CLAMPER BASE	VMD3263	
51	1A		T99-0637-08	MAGNET	JSM0048	

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52	1A		T50-1086-08	CLAMPER BACK YOKE,VMA9535		
53	1A		J11-0857-08	CLAMPER	VMD3264	
54	1A		N19-1507-08	CLAMPER WEIGHT	VMA0B93	
55	3A		T42-0964-08	LOADING MOTOR UNIT,VEM0664		
56	3B		S64-0047-08	DOUBLE SWITCH	VSH0170	
61	2C		E35-2510-08	SPINDLE FFC(17P), VWJ1277		
62	1C		T42-0965-08	SPINDLE MOTOR UNIT,VWM0665		
63	2D		T42-0966-08	STEPPING MOTOR UNIT,VEM0666		
64	2D		G01-4184-08	TILT SPRING	VMB3278	
65	3D		G02-1696-08	SUB-SHAFT TILT SPRING,VMC1487		
66	2D		G02-1697-08	SPRING HOLDER 1,VMC1488		
67	2D		G02-1698-08	SPRING HOLDER 2,VMC1489		
68	3D		J19-6059-08	FPC HOLDER	VMD3261	
69	2C,3C		J02-1469-08	FLOATING RUBBER,VMG1166		
70	3C		A11-1174-08	TRAVERSE CHASSIS,VMK0474		
71	1C		J90-0872-08	GUIDE SHAFT 1	VMS6471	
72	1D		J90-0873-08	GUIDE SHAFT 2	VMS6472	
73	1D		J91-0504-08	OPTCAL PICK-UP	VED0402-1	
74	1D		G02-1699-08	SUB-SHAFT PRELOAD SP,VMC1491		
75	1D		G02-1700-08	NUT	VMC1490	
76	1D		J21-6791-08	NUT	VMD3260	
B41	1B		N09-5159-08	SCREW	VHD1223	
B42	2A		N09-3456-08	SCREW	XQNQC17+3	
B43	3A		N09-5158-08	SCREW	XTV3+10G	
B44	2A		N09-5160-08	SCREW	XTW2+12T	
B45	1A		N09-5158-08	SCREW	XTV3+10G	
B46	1A		N09-5161-08	SCREW	XTS3+6J	
B61	1A,2D		N09-5162-08	SCREW	VHD1224	
B62	3C	*	N09-5193-08	SCREW	VHD1225	
B63	1D		N09-3462-08	SCREW	VHD1057	
B64	1D		N09-3456-08	SCREW	XQNQC17+3	
B65	3D		N09-5164-08	SCREW	XXE26C6FN	

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DVF-3020

SPECIFICATIONS

Power requirements:	AC 110–240 V, 50/60 Hz
Power consumption:	17 W

Signal system: PAL 625/50, PAL 525/60, NTSC
Weight: 3.3 kg
Dimensions: 440 (W)×268 (D)×99 (H) mm (excluding protrusions)

Operating temperature range:
+5 to +35°C

Operating humidity range:
5 to 90% RH (no condensation)

Discs played:

- (1) **DVD-VIDEO disc**
12 cm single-sided, single-layer
12 cm single-sided, dual-layer
12 cm double-sided, single-layer
8 cm single-sided, single-layer
8 cm single-sided, dual-layer
8 cm double-sided, single-layer

- (2) **Compact disc (CD-DA, VIDEO CD)**
12 cm disc
8 cm disc

S video output:

Y output level: 1 Vp-p (75Ω)
C output level: 0.300 Vp-p (75Ω) (PAL)
Output connector: S terminal (1 system)/AV1

Video output:

Output level: 1 Vp-p (75Ω)
Output connector: Pin jack (1 system)/AV1/AV2

Audio output:

Output level: 2 Vrms (1 kHz, 0 dB)
Output connector: Pin jack (1 system)/AV1/AV2

Audio signal output characteristics:

- (1) Frequency response:
•DVD (linear audio): 2 Hz–22 kHz (48 kHz sampling)
2 Hz–44 kHz (96 kHz sampling)
2 Hz–20 kHz (EIAJ)
•CD audio: 115 dB (EIAJ)
(2) S/N ratio:
•CD audio: 115 dB (EIAJ)
(3) Dynamic range:
•DVD (linear audio): 106 dB
•CD audio: 100 dB (EIAJ)
(4) Total harmonic distortion:
•CD audio: 0.002% (EIAJ)

Digital audio output:

Optical digital output: Optical connector

Pickup: Wave length: 665 nm
Laser power: CLASS 2

Specifications are subject to change without notice.
Weight and dimensions are approximate.

Alimentación:	CA 110–240 V, 50/60 Hz
Consumo:	17 W

Sistema de señal: PAL 625/50, PAL 525/60, NTSC

Peso: 3.3 kg
Dimensiones: 440 (An)×268 (Prf)×99 (Al) mm (excluyendo partes salientes)

Gama de temperaturas de funcionamiento:
+5 a +35°C

Gama de humedad de funcionamiento:
5 a 90% RH (sin condensación)

Discos que se pueden reproducir:(1) **Videodisco DVD**

12 cm, una cara, una capa
12 cm, una cara, dos capas
12 cm, dos caras, una capa
8 cm, una cara, una capa
8 cm, una cara, dos capas
8 cm, dos caras, una capa

(2) **Disco compacto (CD-DA, disco compacto de vídeo)**

Disco de 12 cm
Disco de 8 cm

Salida de vídeo S:

Nivel de salida Y: 1 Vp-p (75Ω)
Nivel de salida C: 0.300 Vp-p (75Ω) (PAL)
Terminal de salida: Terminal S (1 sistema)/AV1

Salida de vídeo:

Nivel de salida: 1 Vp-p (75Ω)
Terminal de salida: Toma de contactos (1 sistema)/AV1/AV2

Salida de audio:

Nivel de salida: 2 Vrms (1 kHz, 0 dB)
Terminal de salida: Toma de contactos (1 sistema)/AV1/AV2

Características de la salida de señal de audio:

- (1) Respuesta de frecuencia:
•Audio lineal de DVD:
2 Hz a 22 kHz (Muestreo 48 kHz)
2 Hz a 44 kHz (Muestreo 96 kHz)
•CD de audio:
2 Hz a 20 kHz (EIAJ)
(2) Relación señal a ruido:
•CD de audio: 115 dB (EIAJ)
(3) Gama dinámica:
•Audio lineal de DVD: 106 dB
•CD de audio: 100 dB (EIAJ)
(4) Distorsión armónica total:
•CD de audio: 0.002% (EIAJ)

Salida de audio digital:

Salida digital óptica: Conector óptico

Fonocaptor: Longitud de onda: 665 nm
Potencia láserica: CLASS 2

Las especificaciones están sujetas a cambios sin previo aviso.
Los pesos y las dimensiones son aproximados.

Note:

Component and circuit are subject to modification to insure best operation under differing local conditions. This manual is based on Europe (E) standard, and provides information on regional circuit modification through use of alternate schematic diagrams, and information on regional component variations through use of parts list.

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