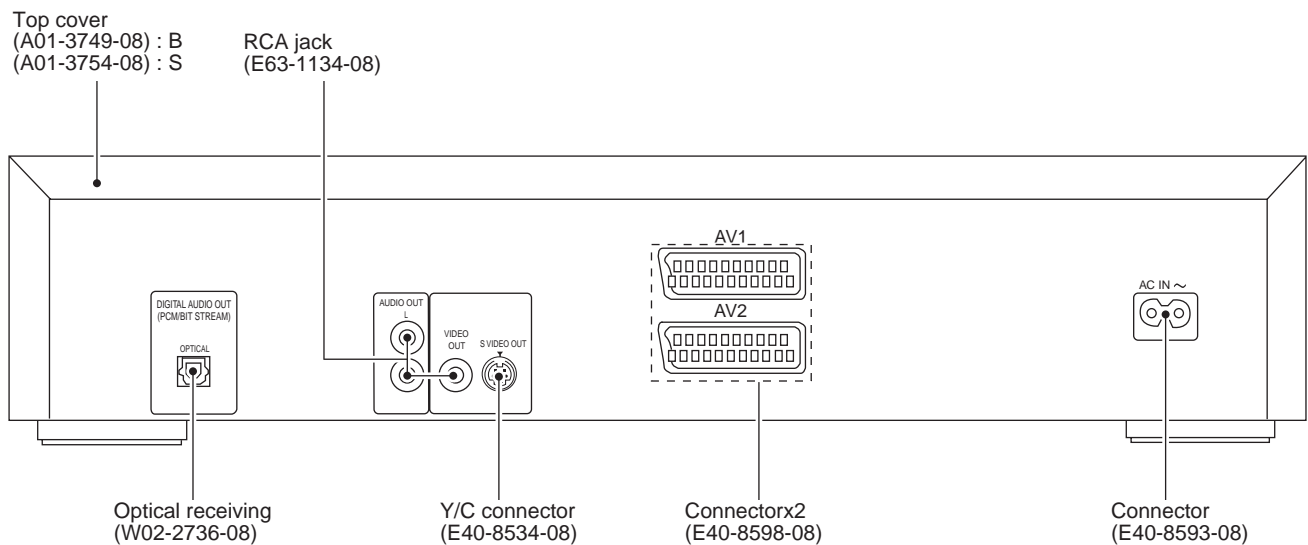
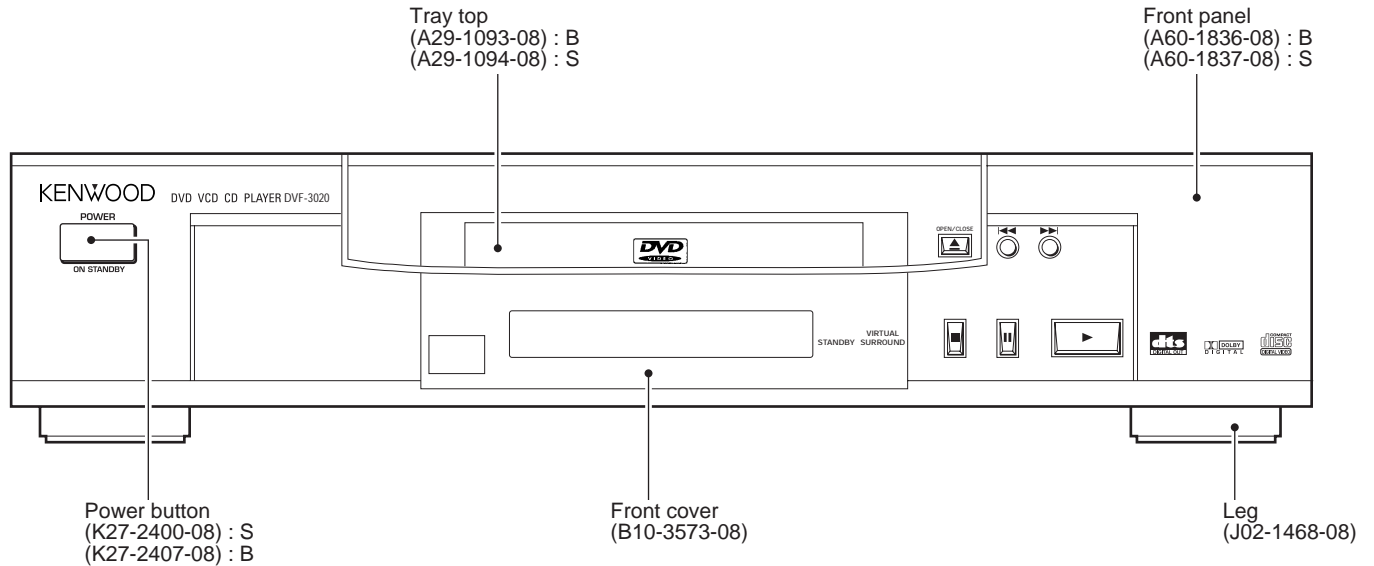


DVF-3020

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.

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

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**



DVF-3020

CONTENTS / ACCESSORIES

Contents

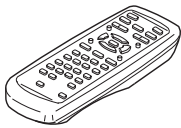

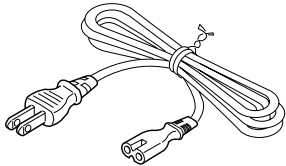
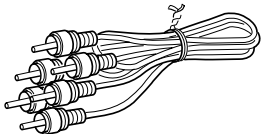
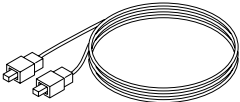
CONTENTS / ACCESSORIES	2	PC BOARD	16
BLOCK DIAGRAM	3	SCHEMATIC DIAGRAM	21
ADJUSTMENT	7	EXPLODED VIEW	51
ABBREVIATION.....	8	PARTS LIST.....	54
VOLTAGE CHART	10	SPECIFICATIONS	Back cover
WIRING DIAGRAM.....	15		

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.

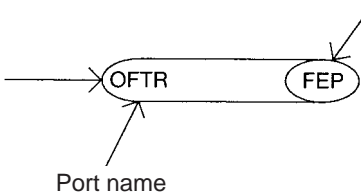
KENWOOD MODEL	OEM MODEL
DVF-3020	DVD-A160 series

Accessories

<p>Remote control unit 1 (A70-1353-08)</p> 	<p>Batteries..... 2 for remote control unit [size "AA"]</p> 	<p>AC cord..... 1 (E30-2946-08)</p> 
<p>Video/audio cable..... 1 (E30-2938-08)</p> 	<p>Optical cable..... 1 (B19-1615-08)</p> 	

How to read the schematic diagram

Connection of "from" or "to".



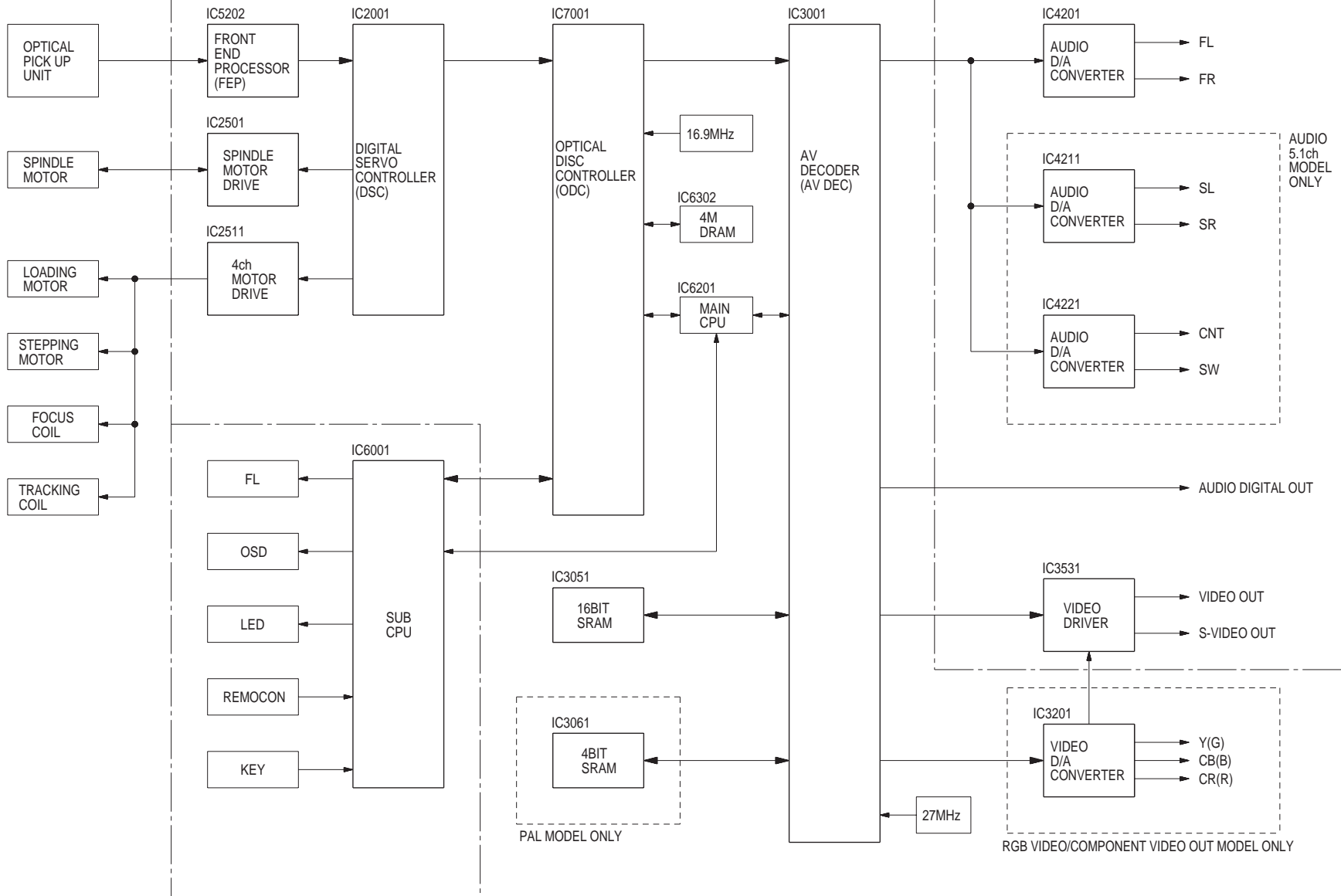
Port name

- There are some destinations in this schematic.

MECHANISM UNIT

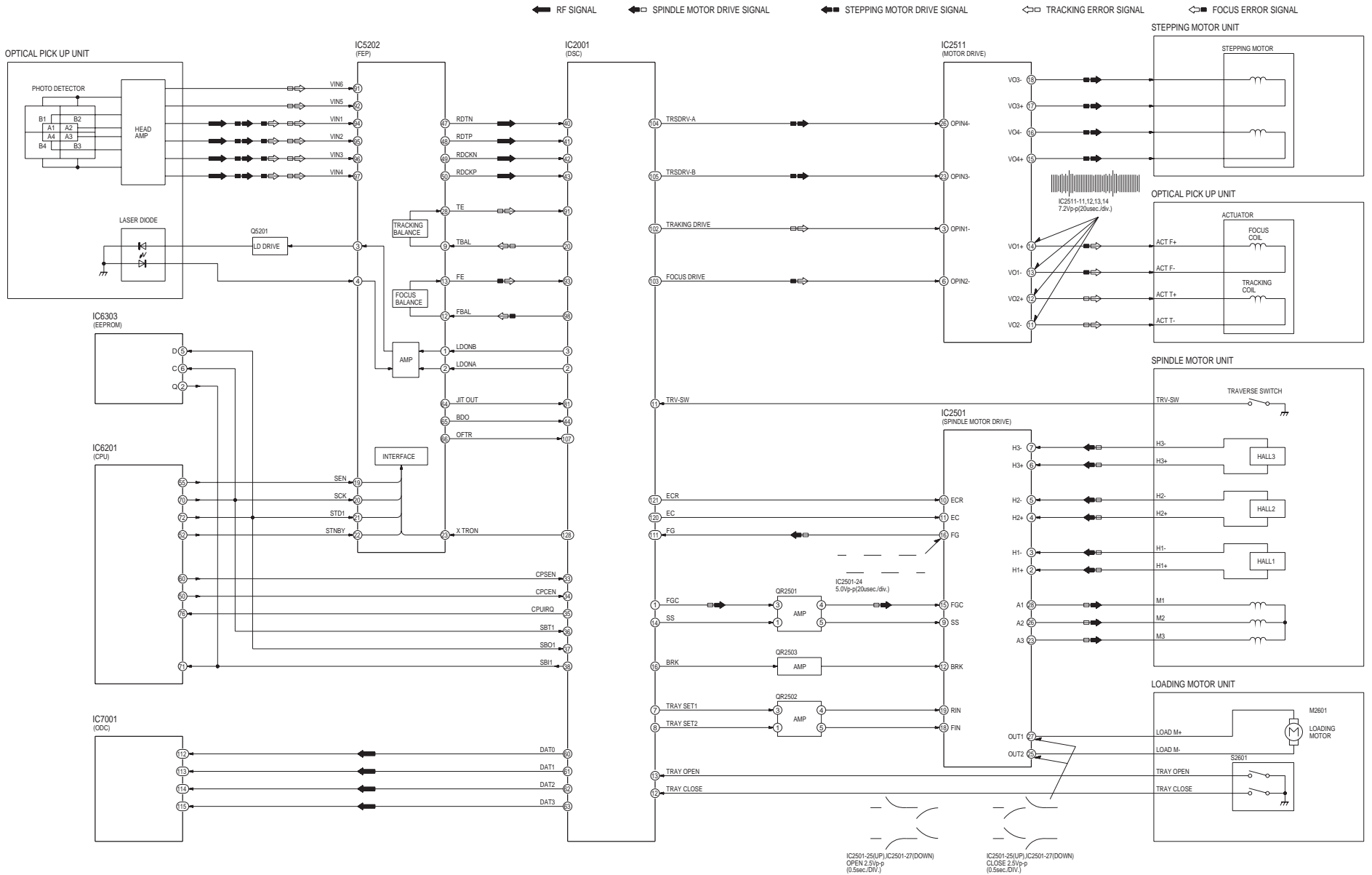
MODULE C.B.A.

MOTHER C.B.A.



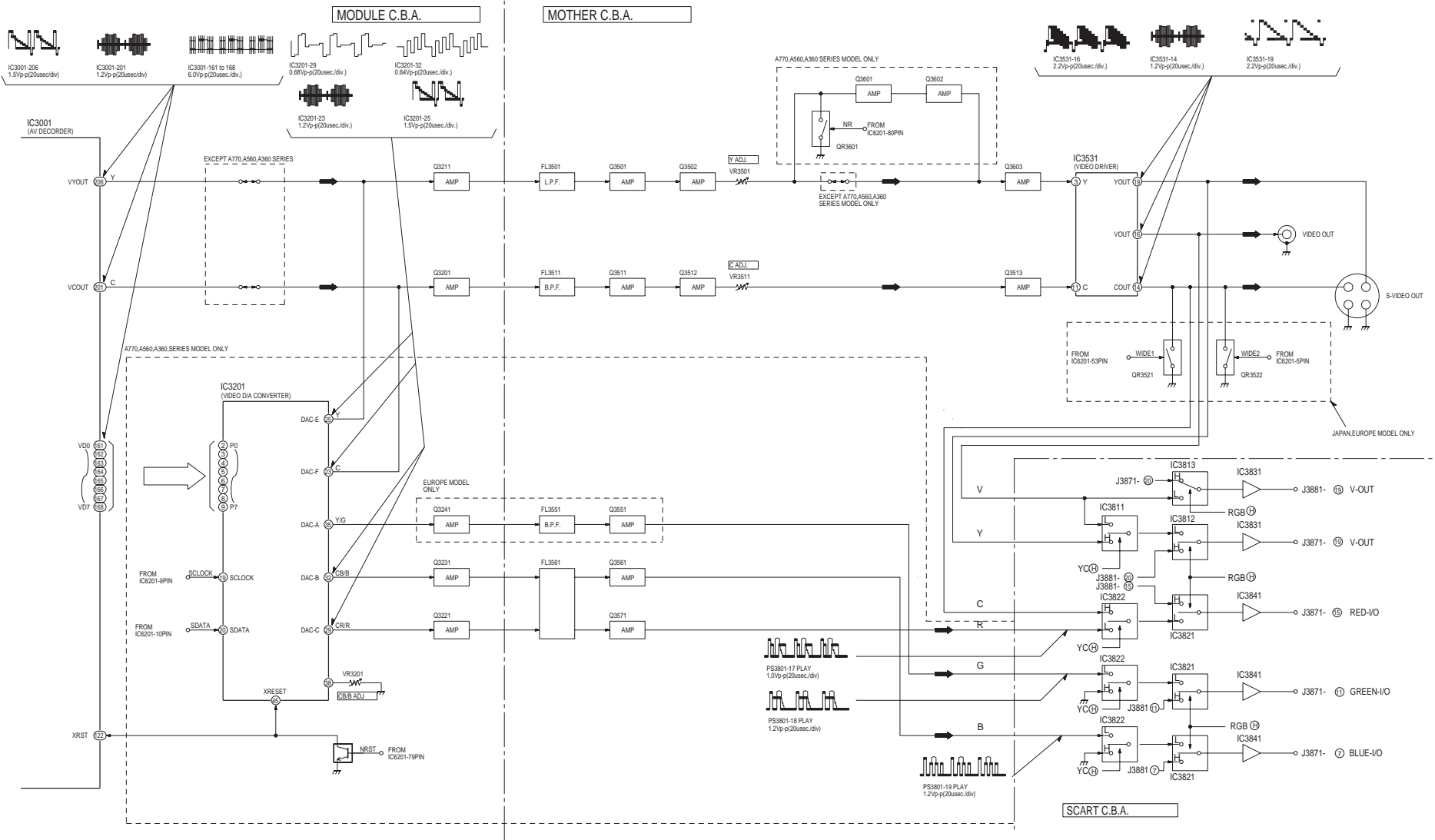
OVERALL BLOCK DIAGRAM

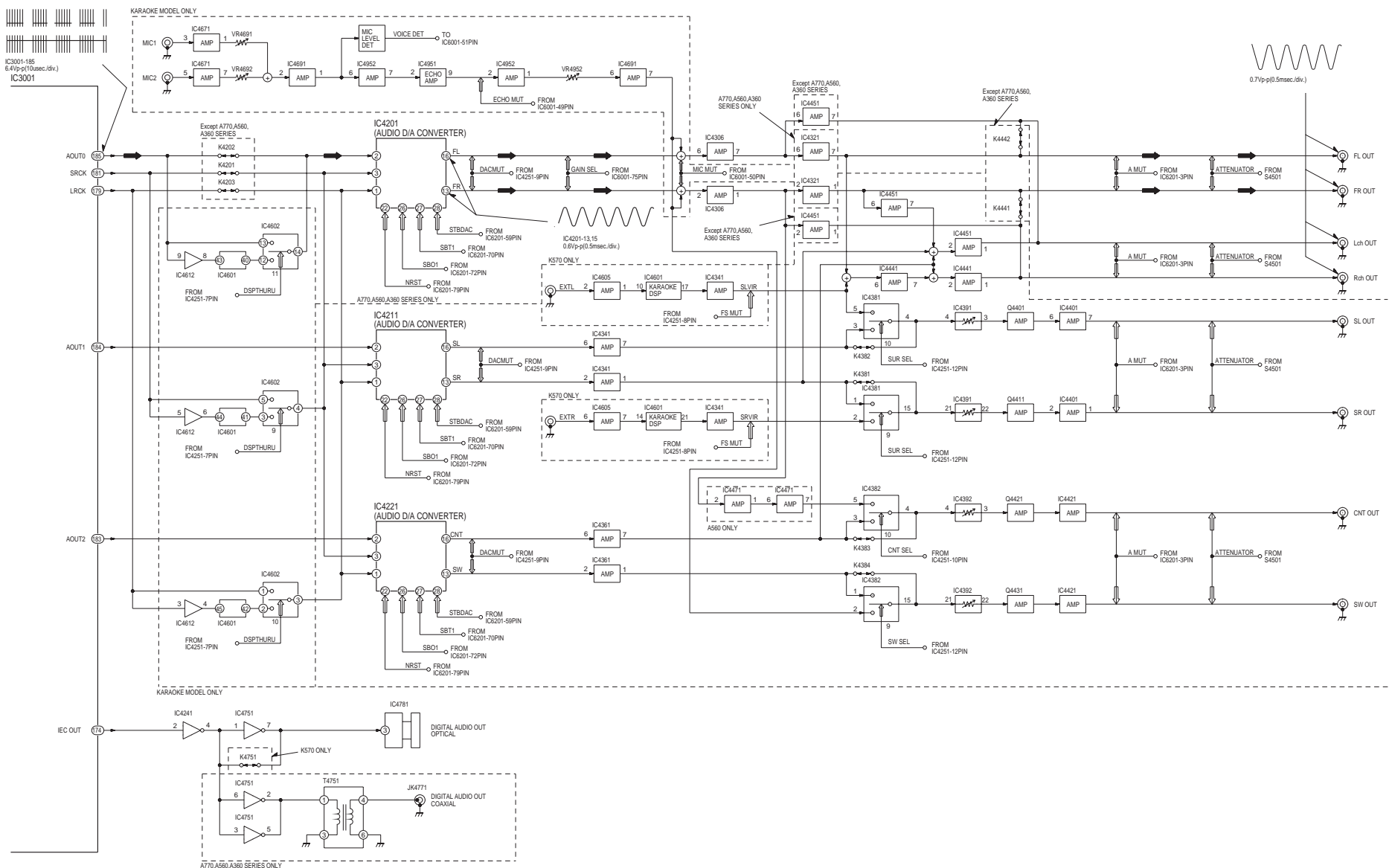
DVF-3020



VIDEO BLOCK DIAGRAM

DVF-3020





AUDIO BLOCK DIAGRAM

DVF-3020

ADJUSTMENT

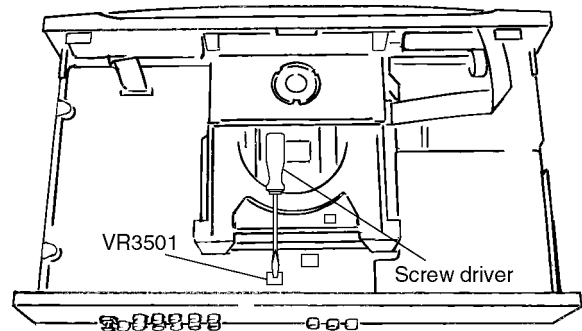
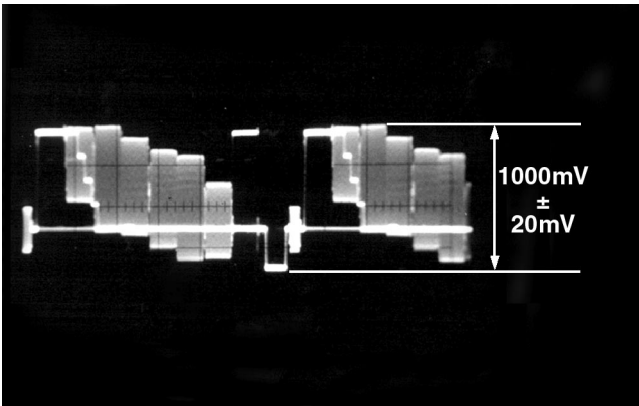
1. Video Output (Luminance Signal) Adjustment

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.



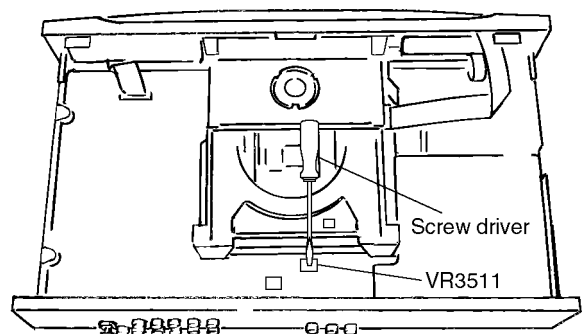
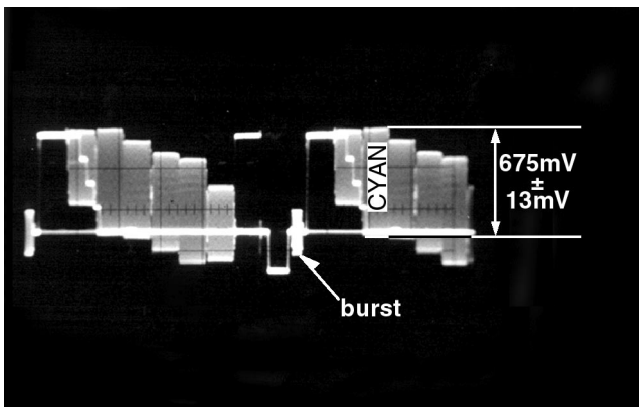
2. Video Output (Chrominance Signal) Adjustment

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	
ASYNC AUDIO WORD DISTINCTION SYNC	
B	BCK BIT CLOCK (PCM)
	BCKIN BIT CLOCK INPUT
	BDO BLACK DROP OUT
	BLKCK SUB CODE BLOCK CLOCK
	BOTTOM CAP. FOR BOTTOM HOLD
	BYP BYPATH
	BYTCK BYTE CLOCK
C	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
	CSYNCCIN COMPOSITE SYNC IN
CSYNCCOUT 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
	DSLDF 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)
ETSCLK EXTERNAL S CLOCK (54MHz)	
F	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
FSCK FS (384 OVER SAMPLING) CLOCK	
G 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
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	
TRON	TRACKING ON		
	TRAVERSE SERVO ON		
V	VBLANK	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	BUS CYCLE WAIT
		WDCK	WORD CLOCK
		WEH	WRITE ENABLE HIGH
WSR		WORD SELECT RECEIVER	
X	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	㉛	㉜	㉝	㉞	㉟	㊱	㊲	
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								
	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	㉞	㉟	㊱	㊲	㊳	㊴	㊵	㊶		
STOP	0.1	0.9	0	3.1	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	0	1.5								
PLAY	0	0	3.1	3.1	3.0	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	0								
	㊿	㊱	㊲	㊳	㊴	㊵	㊶	㊷	㊸	㊹	㊺	㊻	㊼	㊽	㊾	㊿	㊱	㊲	㊳	㊴	㊵	㊶	㊷	㊸	㊹	㊺	㊻	㊼	㊽	㊾	㊿	㊱	㊲	㊳	㊴	㊵	㊶	
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	1.4	1.3	2.1	1.4	0.6									
	㊿	㊱	㊲	㊳	㊴	㊵	㊶	㊷	㊸	㊹	㊺	㊻	㊼	㊽	㊾	㊿	㊱	㊲	㊳	㊴	㊵	㊶	㊷	㊸	㊹	㊺	㊻	㊼	㊽	㊾	㊿	㊱	㊲	㊳	㊴	㊵	㊶	
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								
	㊿	㊱	㊲	㊳	㊴	㊵	㊶	㊷	㊸	㊹	㊺	㊻	㊼	㊽	㊾	㊿	㊱	㊲	㊳	㊴	㊵	㊶	㊷	㊸	㊹	㊺	㊻	㊼	㊽	㊾	㊿	㊱	㊲	㊳	㊴	㊵	㊶	
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	㉛	㉜	㉝	㉞	㉟	㊱	㊲
STOP	0	2.2	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	㉛	㉜	㉝	㉞	㉟	㊱	㊲
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							

DVF-3020

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

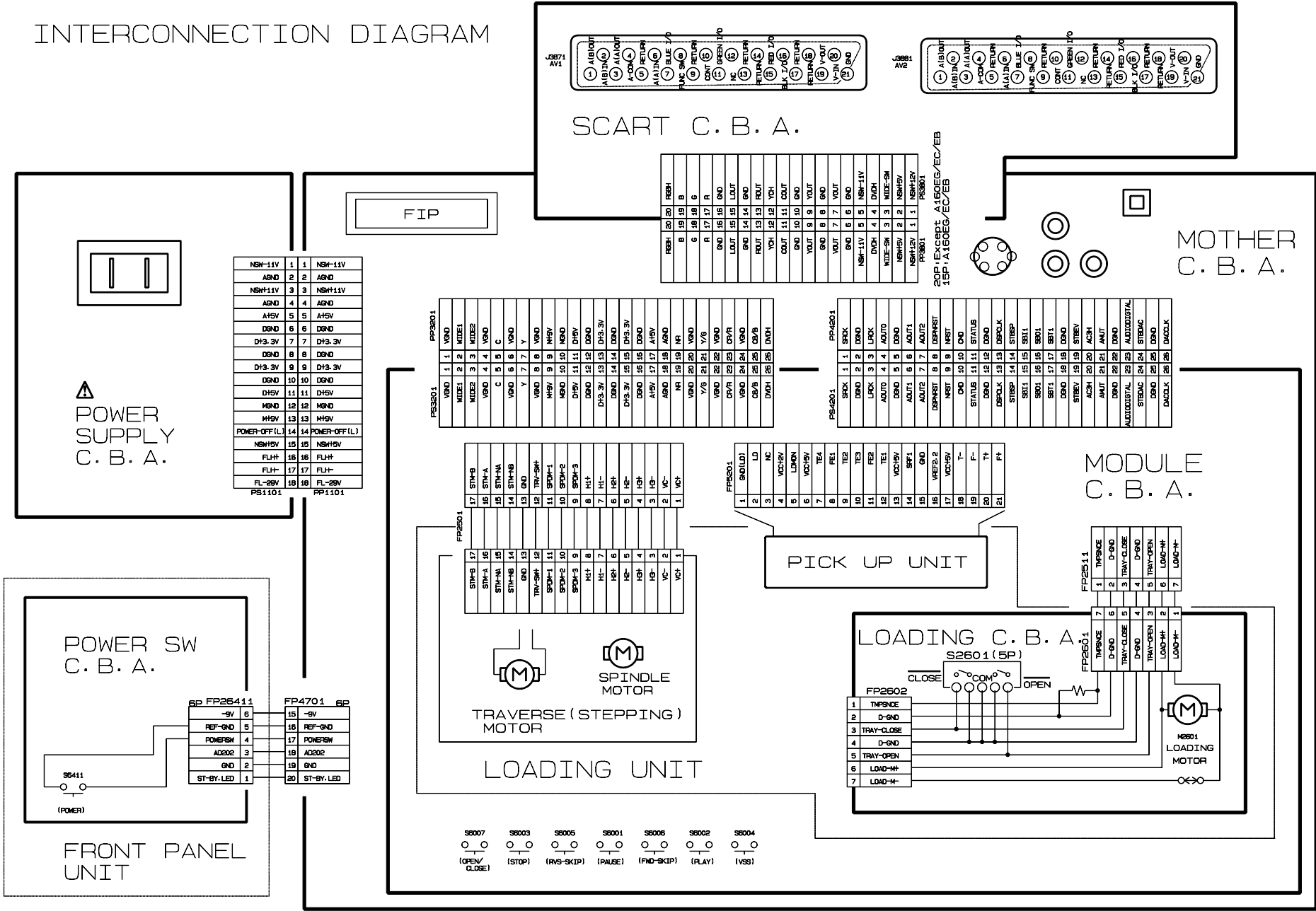
TRANSISTOR

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						

INTERCONNECTION DIAGRAM



SCART C. B. A.

MOTHER C. B. A.

MODULE C. B. A.

TRVERSE (STEPPING) MOTOR

SPINDLE MOTOR

LOADING UNIT

PICK UP UNIT

LOADING C. B. A

LOADING MOTOR

- S8007
○ ○
(OPEN/ CLOSE)
- S8003
○ ○
(STOP)
- S8005
○ ○
(RVS-SKIP)
- S8001
○ ○
(PAUSE)
- S8006
○ ○
(FWD-SKIP)
- S8002
○ ○
(PLAY)
- S8004
○ ○
(VSS)

POWER SUPPLY C. B. A.

POWER SW C. B. A.

FRONT PANEL UNIT

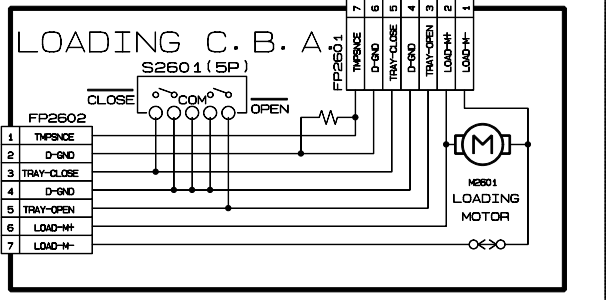
NSW-11V	1	1	NSW-11V
AGND	2	2	AGND
NSW11V	3	3	NSW11V
AGND	4	4	AGND
AHSV	5	5	AHSV
DEND	6	6	DEND
DH3-3V	7	7	DH3-3V
DEND	8	8	DEND
DH3-3V	9	9	DH3-3V
DEND	10	10	DEND
DHSV	11	11	DHSV
MEND	12	12	MEND
MHSV	13	13	MHSV
POWER-OFF (L)	14	14	POWER-OFF (L)
NSWH5V	15	15	NSWH5V
FLH+	16	16	FLH+
FLH-	17	17	FLH-
FL-25V	18	18	FL-25V
PS1101			PP1101

PP3201	1	VEND	PP3201	1	VEND
MDEE1	2	MDEE1	MDEE1	2	MDEE1
MDEE2	3	MDEE2	MDEE2	3	MDEE2
VEND	4	VEND	VEND	4	VEND
C	5	C	C	5	C
VEND	6	VEND	VEND	6	VEND
Y	7	Y	Y	7	Y
VEND	8	VEND	VEND	8	VEND
MHSV	9	MHSV	MHSV	9	MHSV
MEND	10	MEND	MEND	10	MEND
DHY	11	DHY	DHY	11	DHY
DEND	12	DEND	DEND	12	DEND
DH3-3V	13	DH3-3V	DH3-3V	13	DH3-3V
DH3-3V	14	DH3-3V	DH3-3V	14	DH3-3V
DEND	15	DEND	DEND	15	DEND
DEND	16	DEND	DEND	16	DEND
AHSV	17	AHSV	AHSV	17	AHSV
AGND	18	AGND	AGND	18	AGND
VEND	20	VEND	VEND	20	VEND
NR	19	NR	NR	19	NR
Y/6	21	Y/6	Y/6	21	Y/6
VEND	22	VEND	VEND	22	VEND
DVP1	23	DVP1	DVP1	23	DVP1
VEND	24	VEND	VEND	24	VEND
OP/8	25	OP/8	OP/8	25	OP/8
DVDH	26	DVDH	DVDH	26	DVDH

PP4201	1	SROK	PP4201	1	SROK
DEND	2	DEND	DEND	2	DEND
LCKX	3	LCKX	LCKX	3	LCKX
AUTO	4	AUTO	AUTO	4	AUTO
DEND	5	DEND	DEND	5	DEND
AUTO	6	AUTO	AUTO	6	AUTO
DPNMST	8	DPNMST	DPNMST	8	DPNMST
MST	9	MST	MST	9	MST
CHD	10	CHD	CHD	10	CHD
STATUS	11	STATUS	STATUS	11	STATUS
DEND	12	DEND	DEND	12	DEND
DROCK	13	DROCK	DROCK	13	DROCK
STRSP	14	STRSP	STRSP	14	STRSP
SRT1	15	SRT1	SRT1	15	SRT1
SRT1	16	SRT1	SRT1	16	SRT1
DEND	17	DEND	DEND	17	DEND
STRV1	18	STRV1	STRV1	18	STRV1
ACH	20	ACH	ACH	20	ACH
AUT	21	AUT	AUT	21	AUT
DEND	22	DEND	DEND	22	DEND
AUDIODIGITAL	23	AUDIODIGITAL	AUDIODIGITAL	23	AUDIODIGITAL
STRDAC	24	STRDAC	STRDAC	24	STRDAC
DEND	25	DEND	DEND	25	DEND
DROCK	26	DROCK	DROCK	26	DROCK

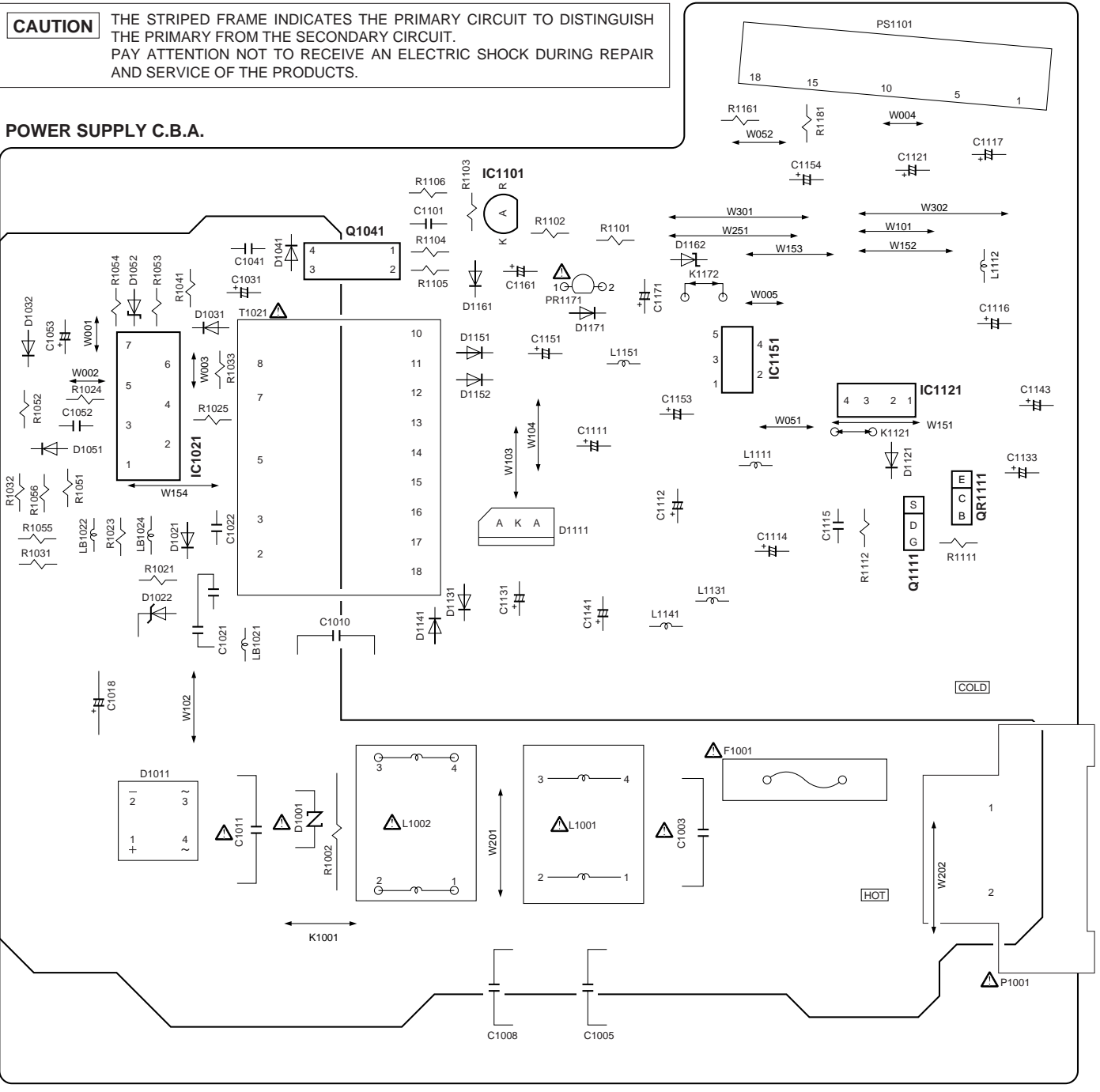
FP2501	1	GN(LD)	FP2501	1	GN(LD)
LD	2	LD	LD	2	LD
NC	3	NC	NC	3	NC
VDD5V	4	VDD5V	VDD5V	4	VDD5V
LDVDD	5	LDVDD	LDVDD	5	LDVDD
VDD5V	6	VDD5V	VDD5V	6	VDD5V
TE4	7	TE4	TE4	7	TE4
FE1	8	FE1	FE1	8	FE1
TE2	9	TE2	TE2	9	TE2
TE3	10	TE3	TE3	10	TE3
FE2	11	FE2	FE2	11	FE2
TE4	12	TE4	TE4	12	TE4
VDD5V	13	VDD5V	VDD5V	13	VDD5V
SF1	14	SF1	SF1	14	SF1
GN	15	GN	GN	15	GN
VREF2.2	16	VREF2.2	VREF2.2	16	VREF2.2
VDD5V	17	VDD5V	VDD5V	17	VDD5V
F-	18	F-	F-	18	F-
T+	19	T+	T+	19	T+
P+	20	P+	P+	20	P+
	21			21	

FP2511	1	TRMSE	FP2511	1	TRMSE
D-GND	2	D-GND	D-GND	2	D-GND
TRAY-CLOSE	3	TRAY-CLOSE	TRAY-CLOSE	3	TRAY-CLOSE
D-GND	4	D-GND	D-GND	4	D-GND
TRAY-OPEN	5	TRAY-OPEN	TRAY-OPEN	5	TRAY-OPEN
LOAD-H+	6	LOAD-H+	LOAD-H+	6	LOAD-H+
LOAD-H-	7	LOAD-H-	LOAD-H-	7	LOAD-H-



WIRING DIAGRAM

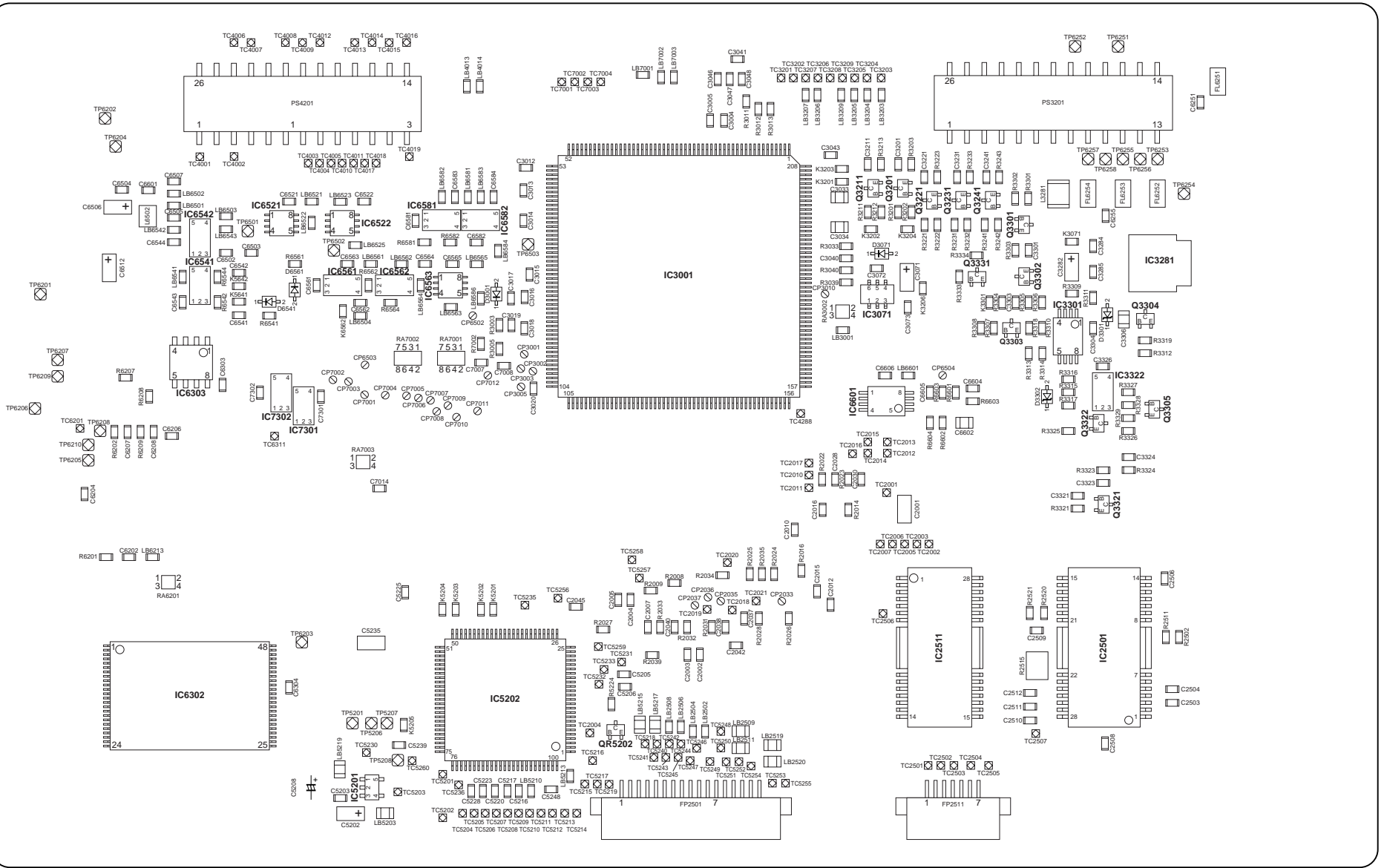
DVF-3020



CAUTION THE STRIPED FRAME 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.

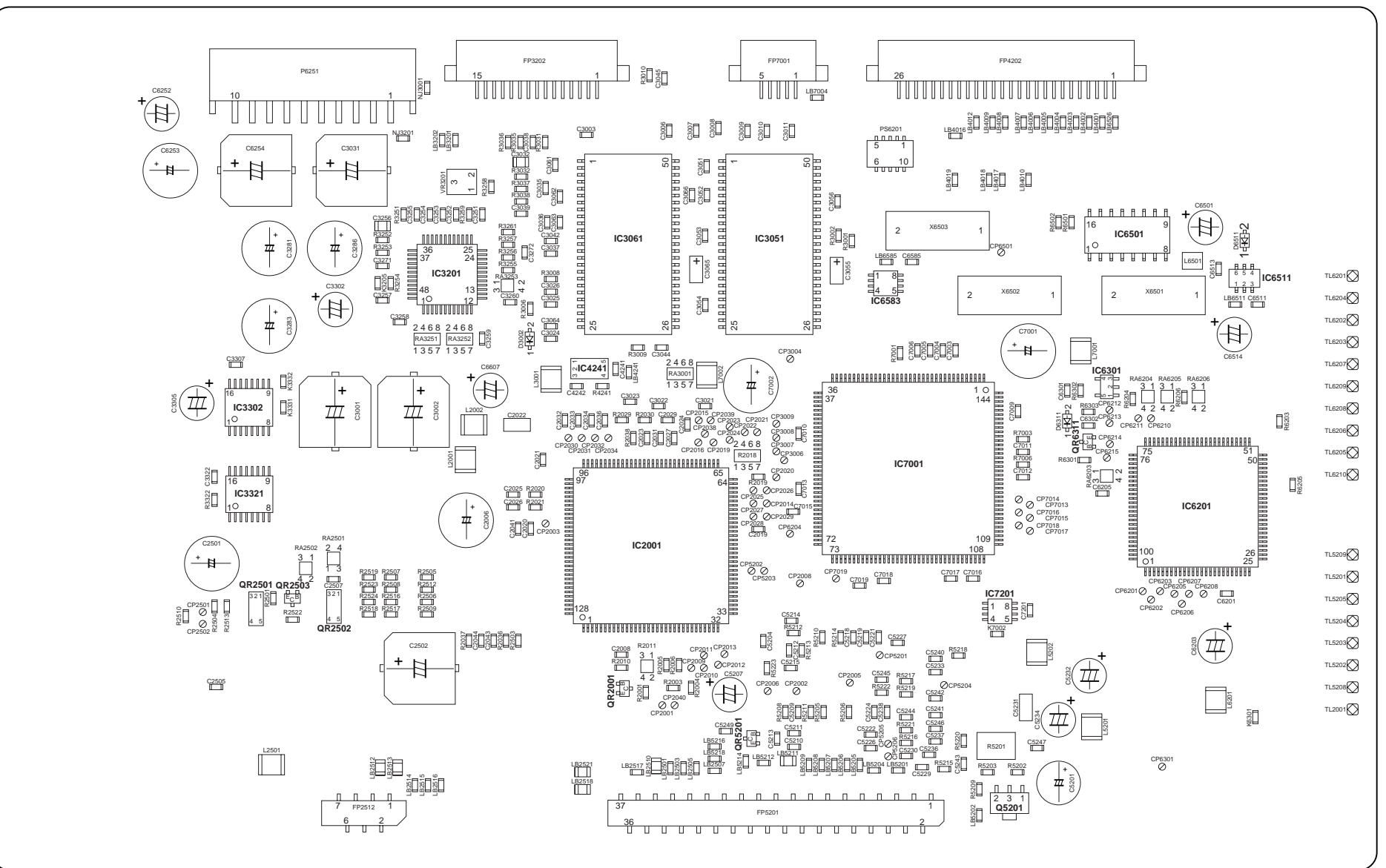
POWER SUPPLY C.B.A.

MODULE C.B.A. (1/2)

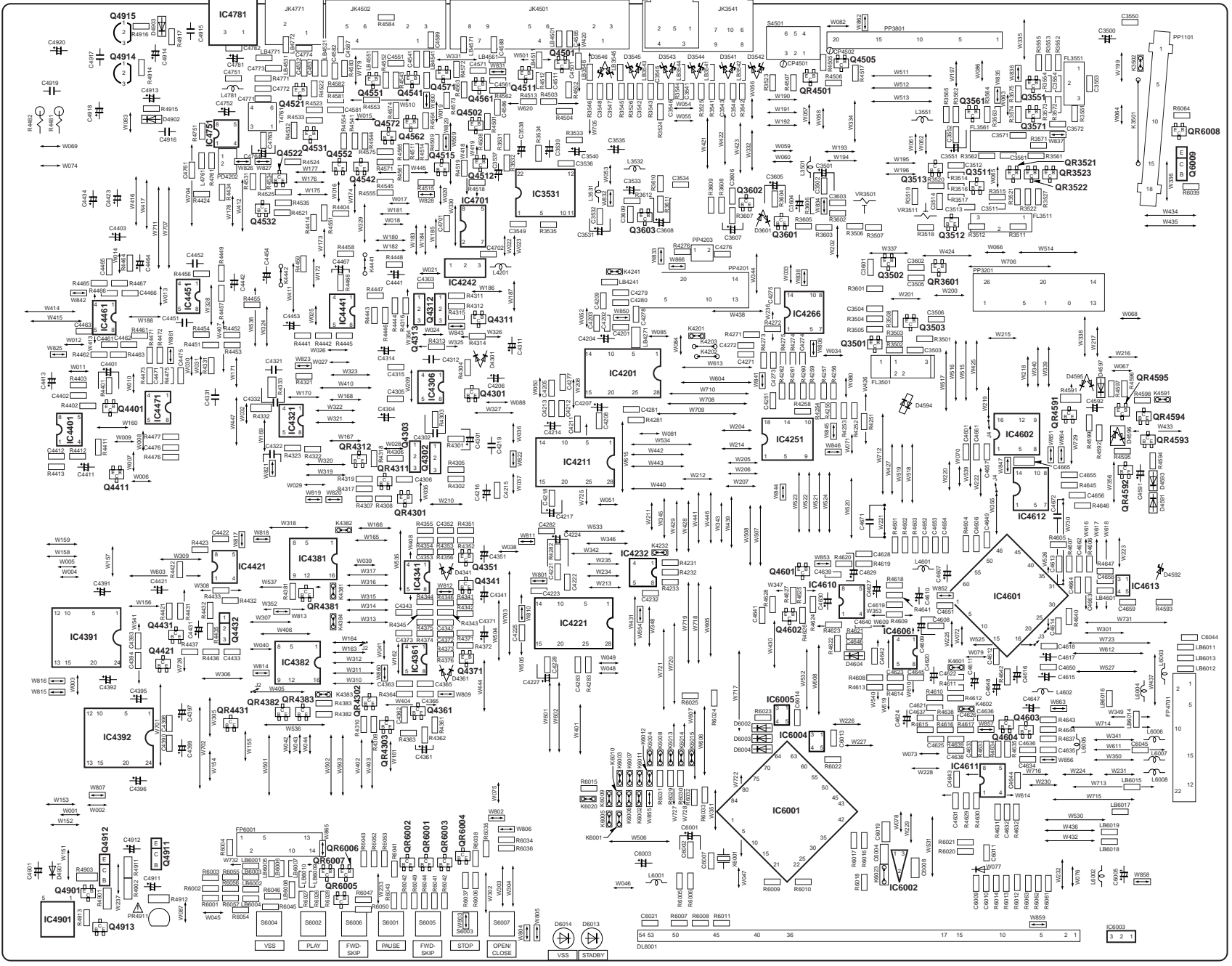


Refer to the schematic diagram for the value of resistors and capacitors.

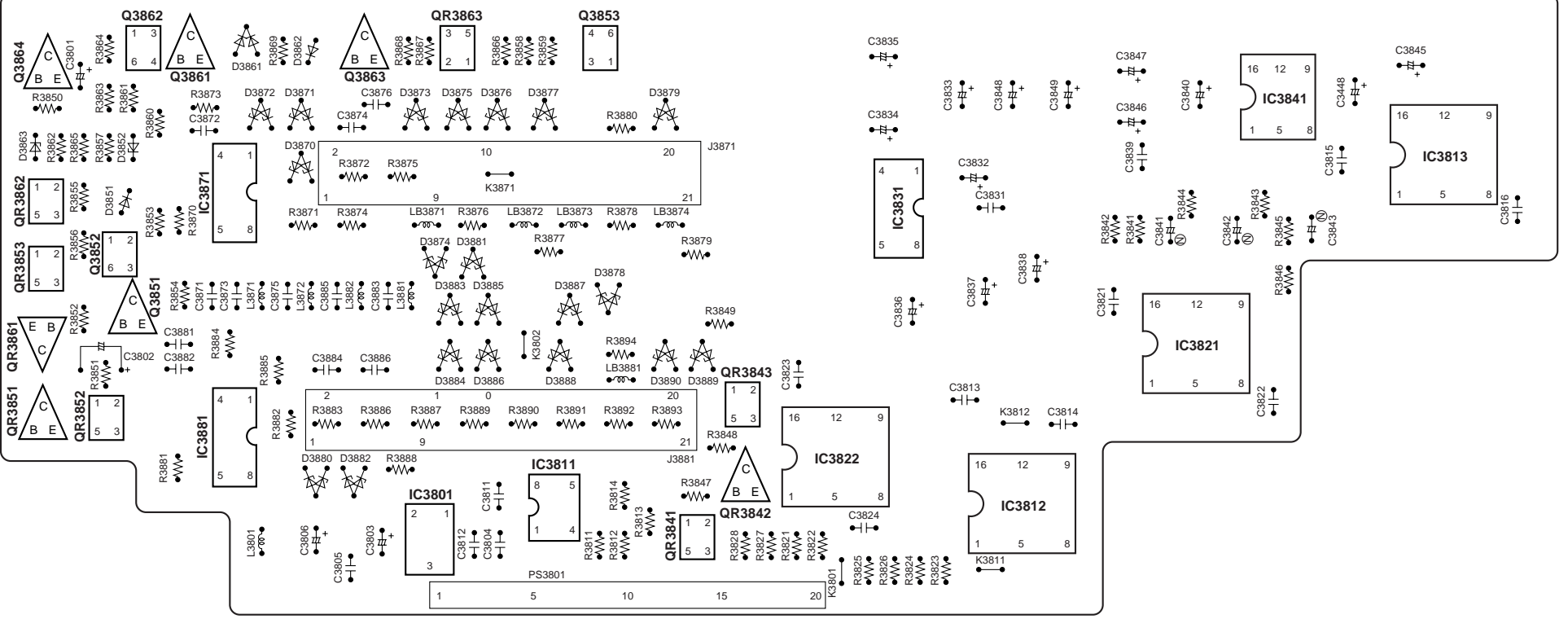
MODULE C.B.A. (2/2)



MOTHER C.B.A.




SCART C.B.A.

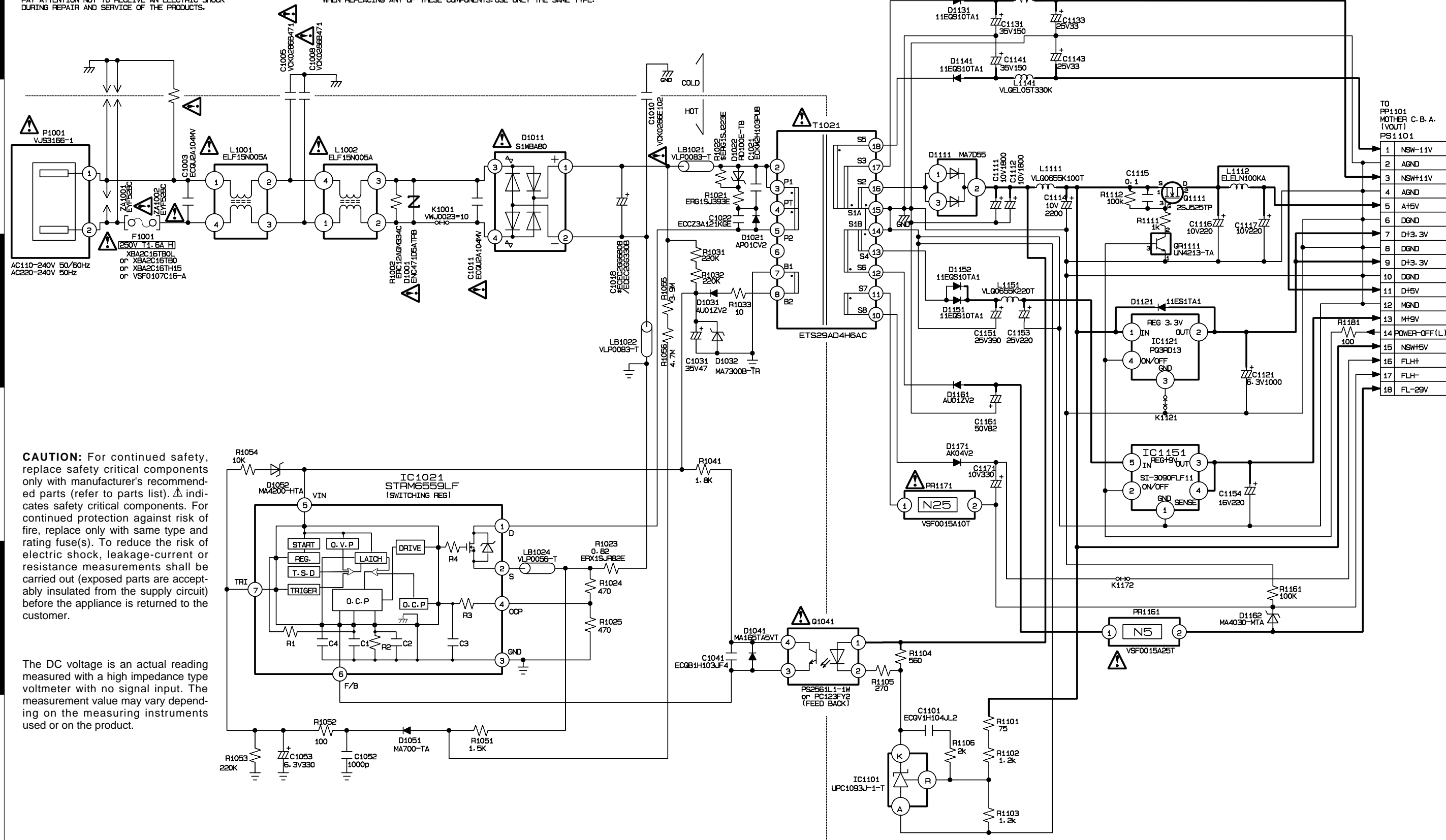


Power supply

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.

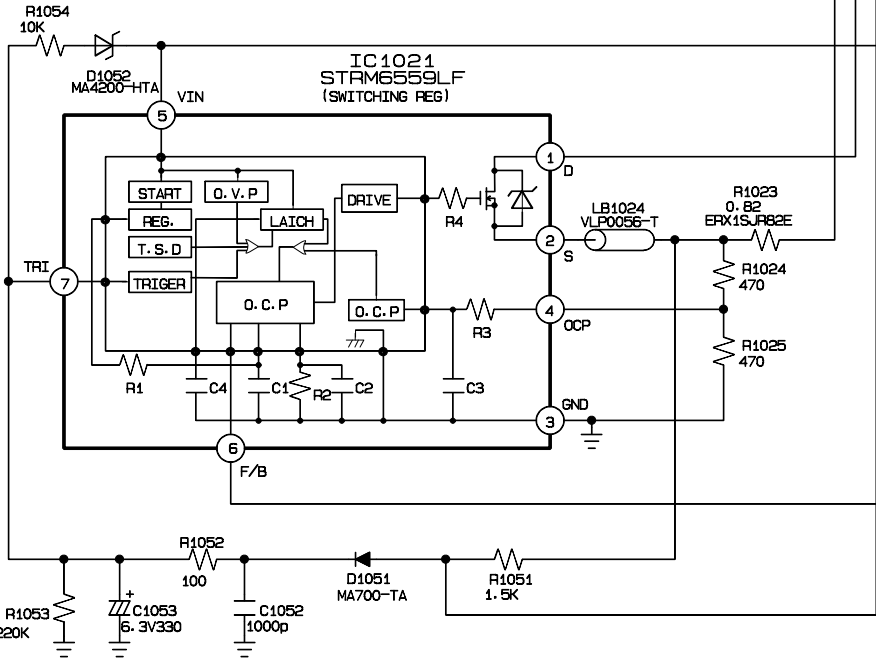


TO PP1101 MOTHER C. B. A. (VOUT) PS1101

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

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.

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.



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.

DVF-3020

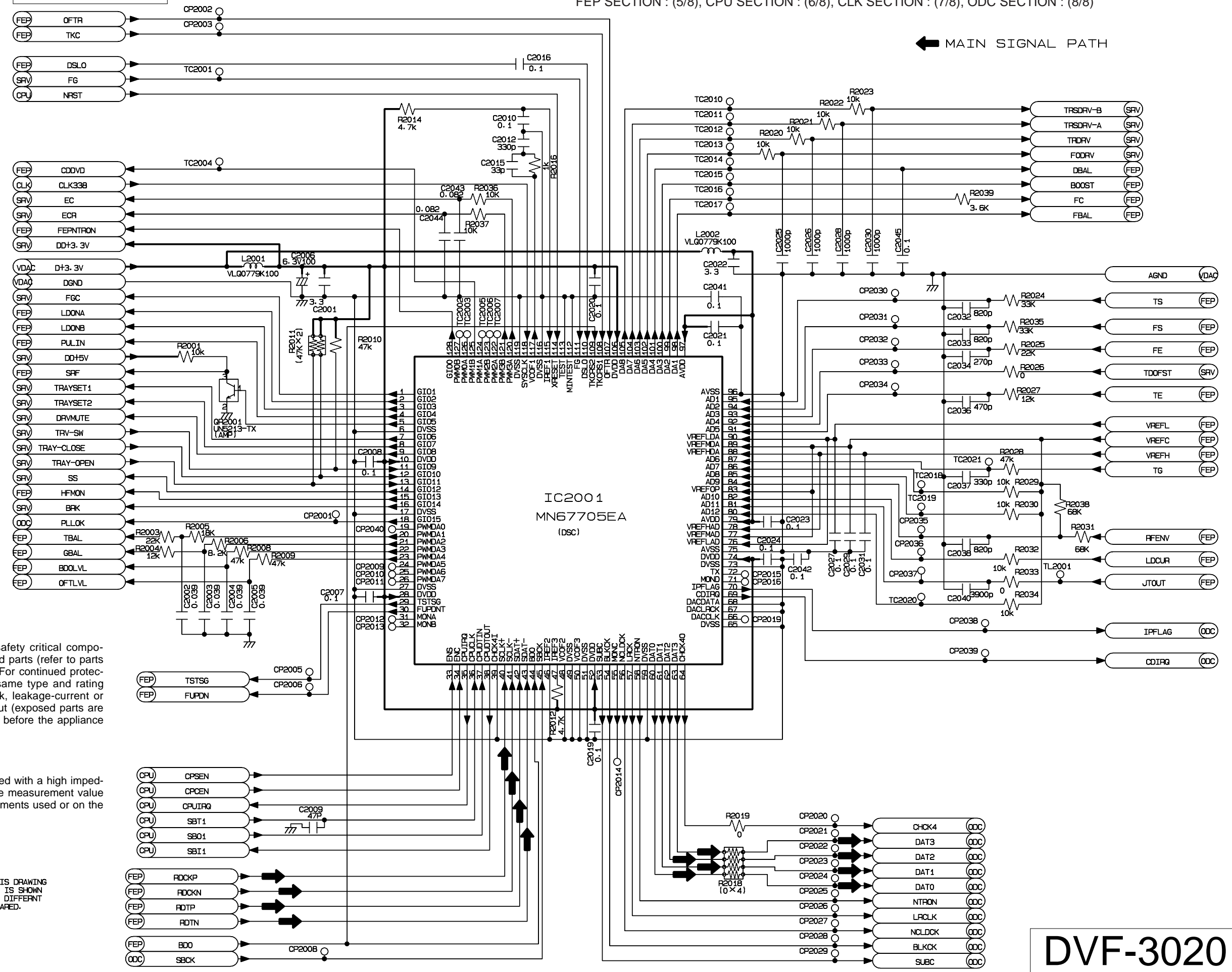
KENWOOD

Y22-8202-73

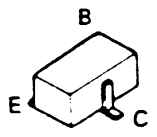
ADSC/module(1/8)

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)

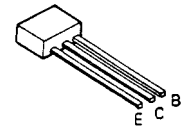
← MAIN SIGNAL PATH



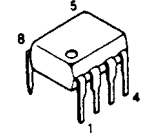
DTA123JK 2SD1328
 UN5213
 2SB1218A
 2SB709A



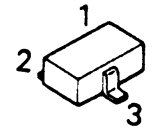
UN4213



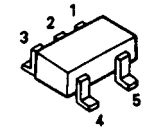
UPC1093J



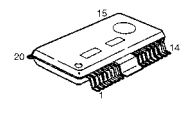
UN5212



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.

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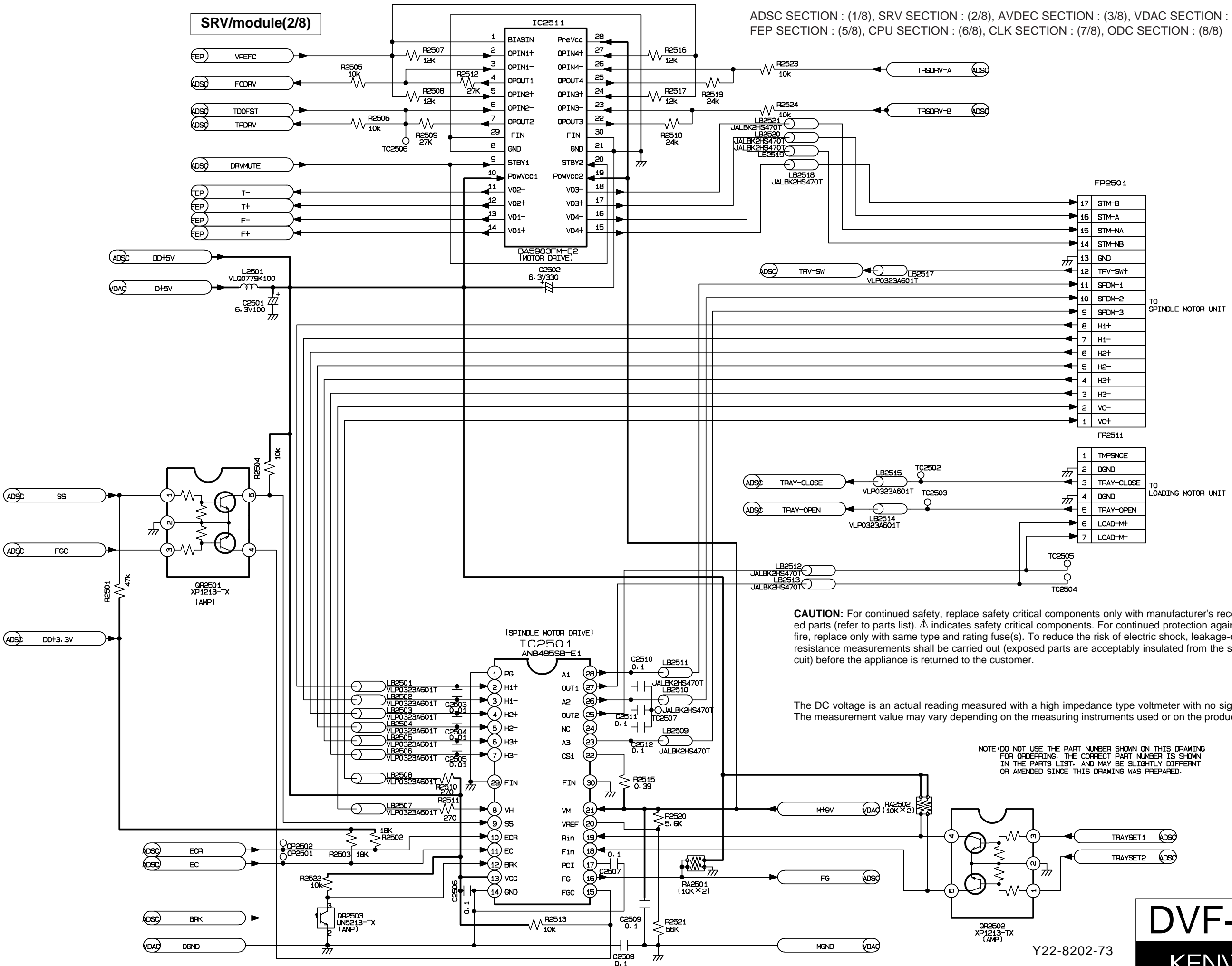
DVF-3020

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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)



FP2501

17	STM-B
16	STM-A
15	STM-NA
14	STM-NB
13	GND
12	TRV-SW+
11	SPDM-1
10	SPDM-2
9	SPDM-3
8	H1+
7	H1-
6	H2+
5	H2-
4	H3+
3	H3-
2	VC-
1	VC+

TO SPINDLE MOTOR UNIT

FP2511

1	TMPSNCE
2	DGND
3	TRAY-CLOSE
4	DGND
5	TRAY-OPEN
6	LOAD-M+
7	LOAD-M-

TO LOADING MOTOR UNIT

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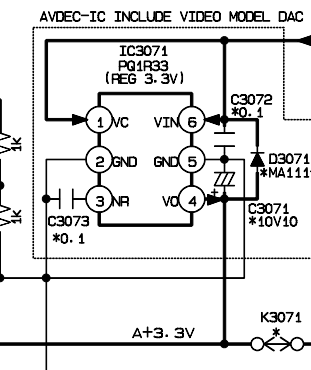
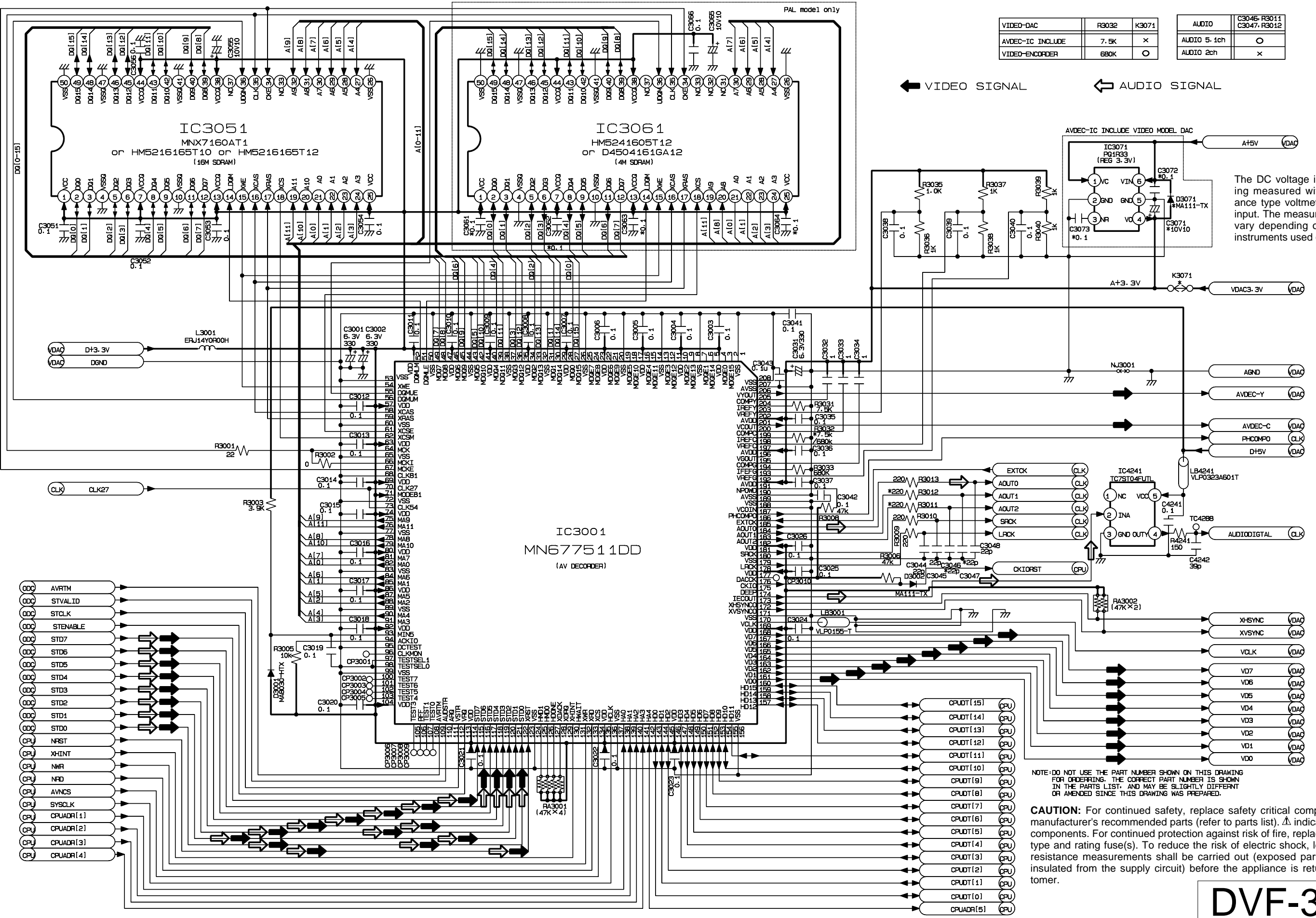
NOTE: DO NOT USE THE PART NUMBER SHOWN ON THIS DRAWING FOR ORDERING. THE CORRECT PART NUMBER IS SHOWN IN THE PARTS LIST, AND MAY BE SLIGHTLY DIFFERENT OR AMENDED SINCE THIS DRAWING WAS PREPARED.

AVDEC/module(3/8)

AD5C 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)

VIDEO-DAC	R3032	K3071	AUDIO	C3046, R3011
AVDEC-IC INCLUDE	7.5K	×	AUDIO 5-1ch	○
VIDEO-ENCODER	680K	○	AUDIO 2ch	×

← VIDEO SIGNAL ← AUDIO SIGNAL



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.

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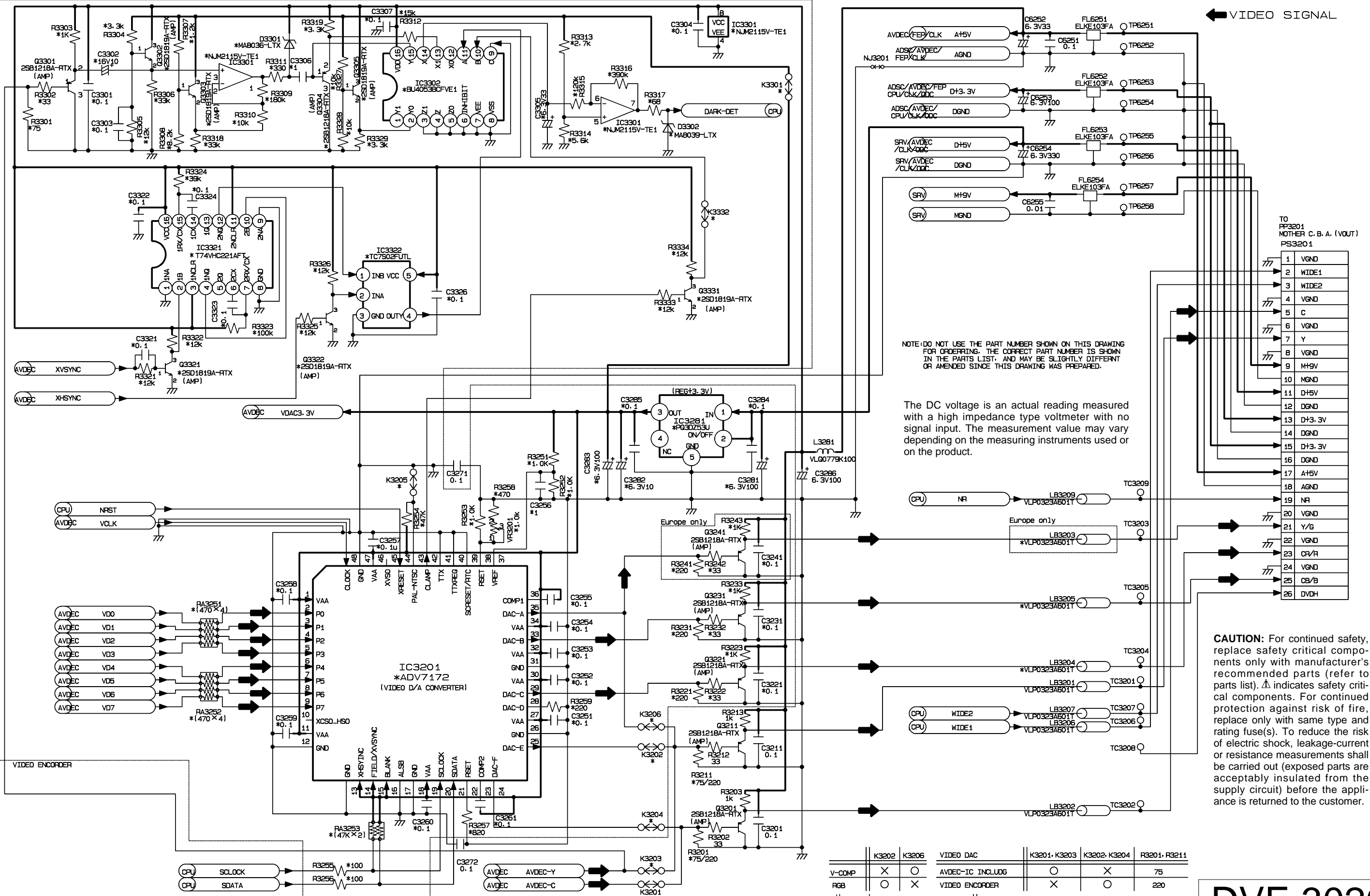
CAUTION: For continued safety, replace safety critical components only with manufacturer's recommended parts (refer to parts list). Δ indicates safety critical components. For continued protection against risk of fire, replace only with same type and rating fuse(s). To reduce the risk of electric shock, 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.

DVF-3020
KENWOOD

Y22-8202-73

VDAC/module(4/8)

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)



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.

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.

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.

TO FP3201 MOTHER C.B.A. (VOUT) PS3201

1	VGND
2	WIDE1
3	WIDE2
4	VGND
5	C
6	VGND
7	Y
8	VGND
9	M9V
10	MGND
11	DH5V
12	DGND
13	DH3.3V
14	DGND
15	DH3.3V
16	DGND
17	AH5V
18	AGND
19	NR
20	VGND
21	Y/G
22	VGND
23	CR/A
24	VGND
25	CB/B
26	DVDH

	K3202	K3206	VIDEO DAC	K3201, K3203	K3202, K3204	R3201, R3211
V-COMP	X	O	AVDEC-IC INCLUDG	O	X	75
RGB	O	X	VIDEO ENCODER	X	O	220
ADJ	R3253	R3258-VR3201				
INNER ADJ	X	O	NTSC			O
OUT ADJ	O	X	PAL			X

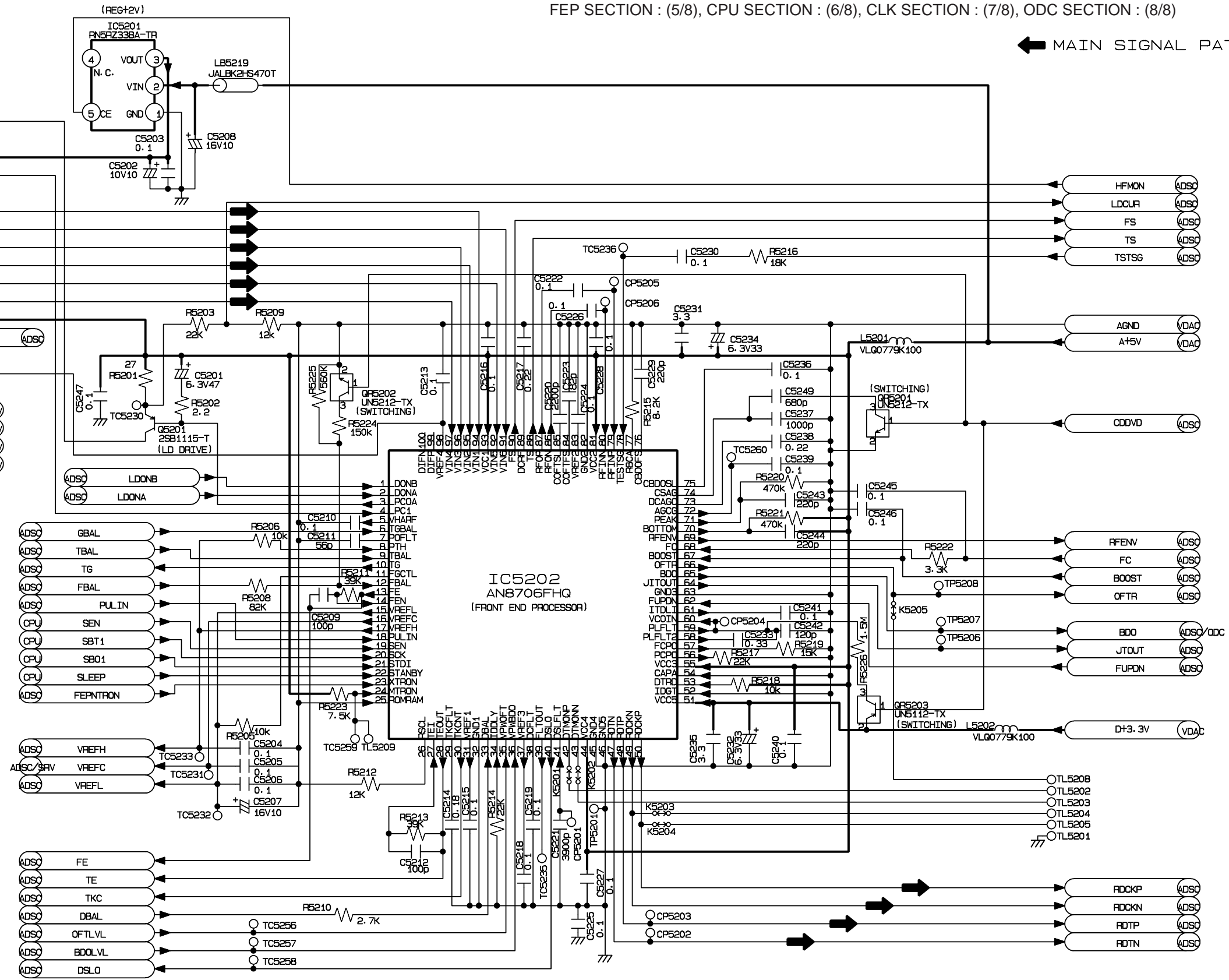
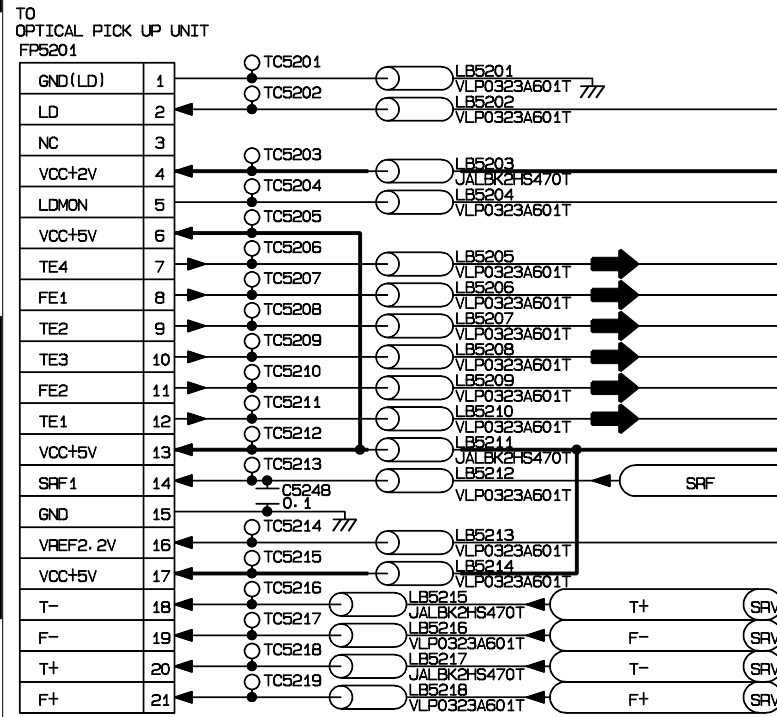
Y22-8202-73

DVF-3020
KENWOOD

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



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.

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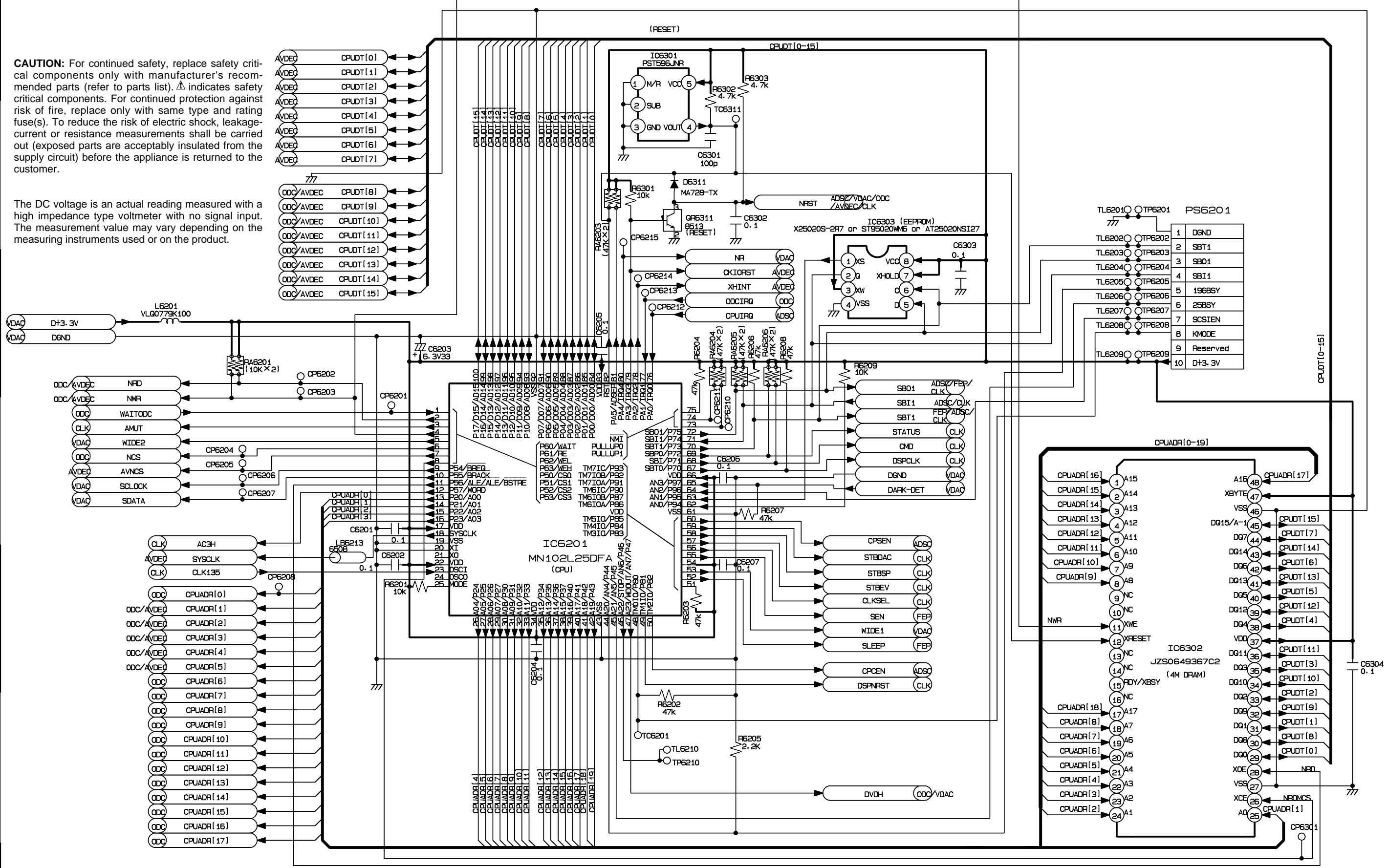
DVF-3020
KENWOOD

CPU/module(6/8)

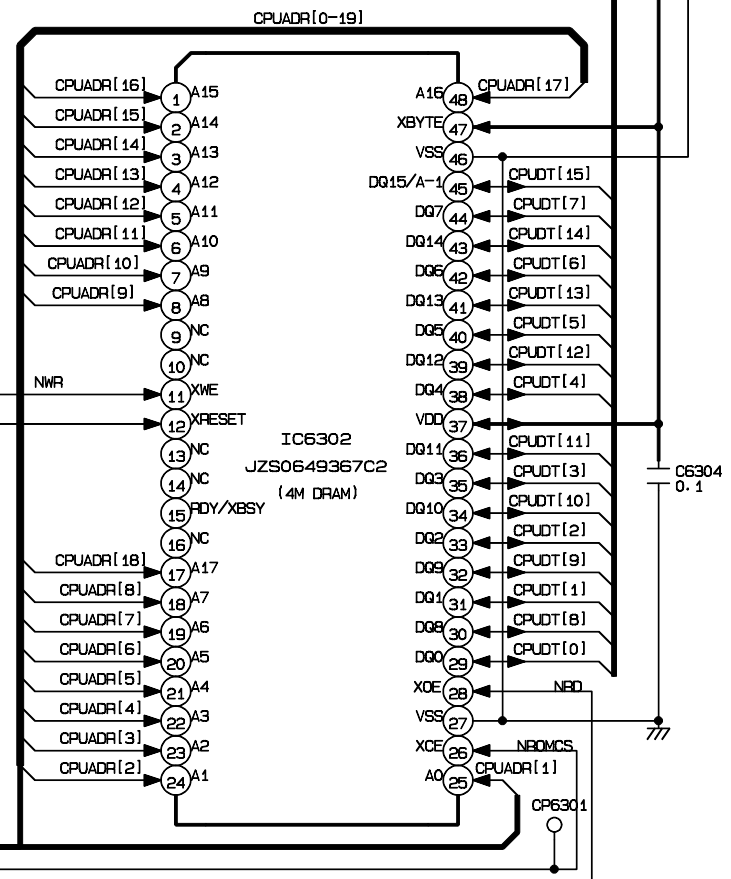
ADSC SECTION : (1/8), SRV SECTION : (2/8), AVDEC SECTION : (3/8), VDAC SECTION : (4/8)
 FEP SECTION : (5/8), CPU SECTION : (6/8), CLK SECTION : (7/8), ODC SECTION : (8/8)

CAUTION: For continued safety, replace safety critical components only with manufacturer's recommended parts (refer to parts list). 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.



Pin	Signal
1	DGND
2	SBT1
3	SBI1
4	196BSY
5	25BSY
6	SCSIEN
7	Reserved
8	Reserved
9	Reserved
10	D+3.3V



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.

Y22-8202-73

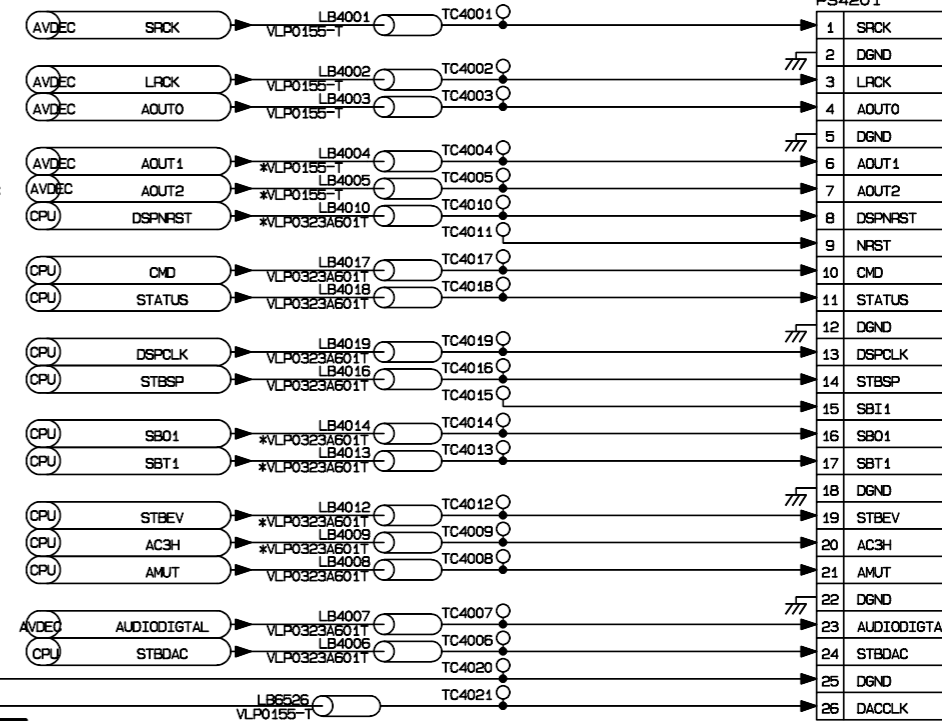
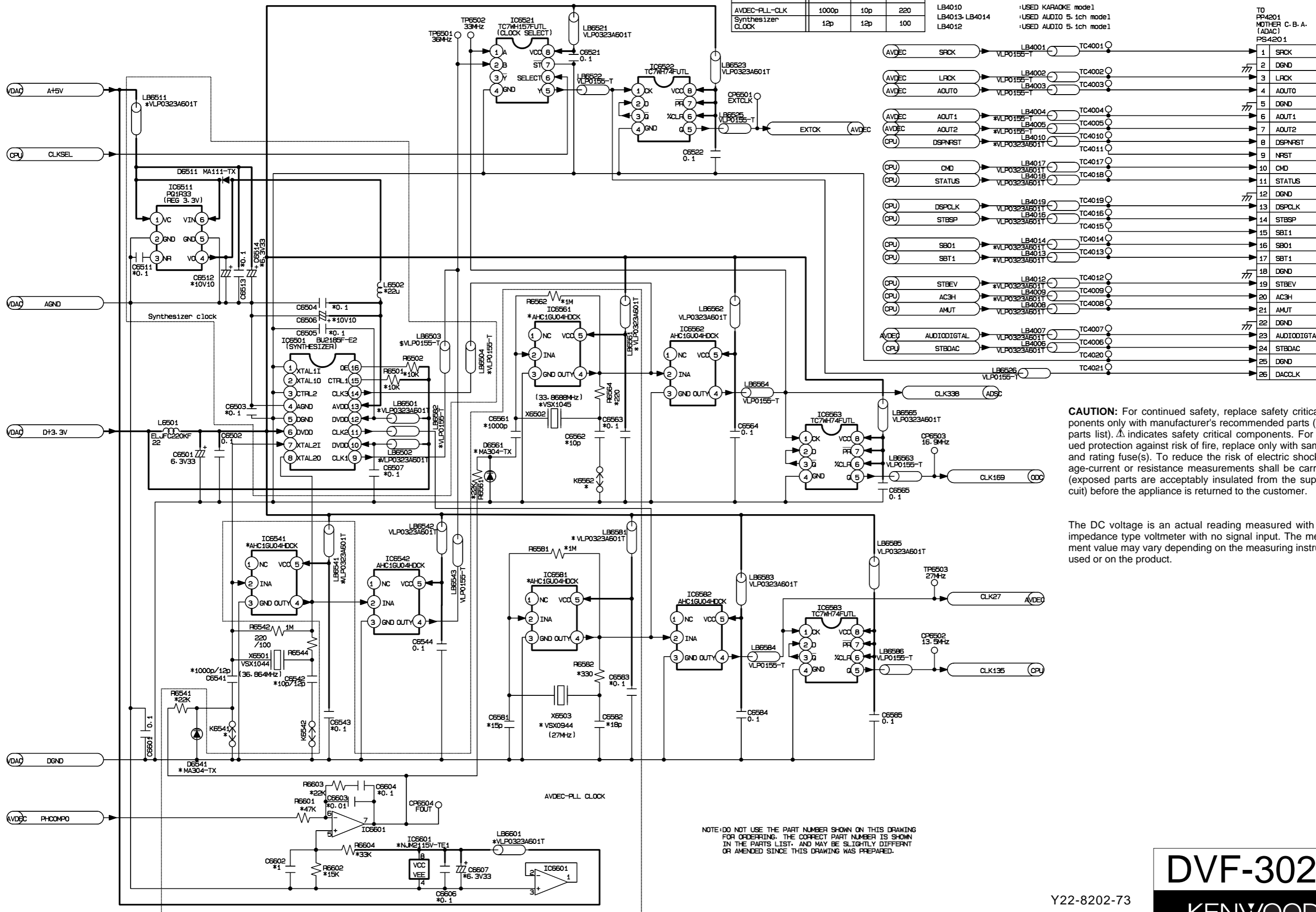
CLK/module(7/8)

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.

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.

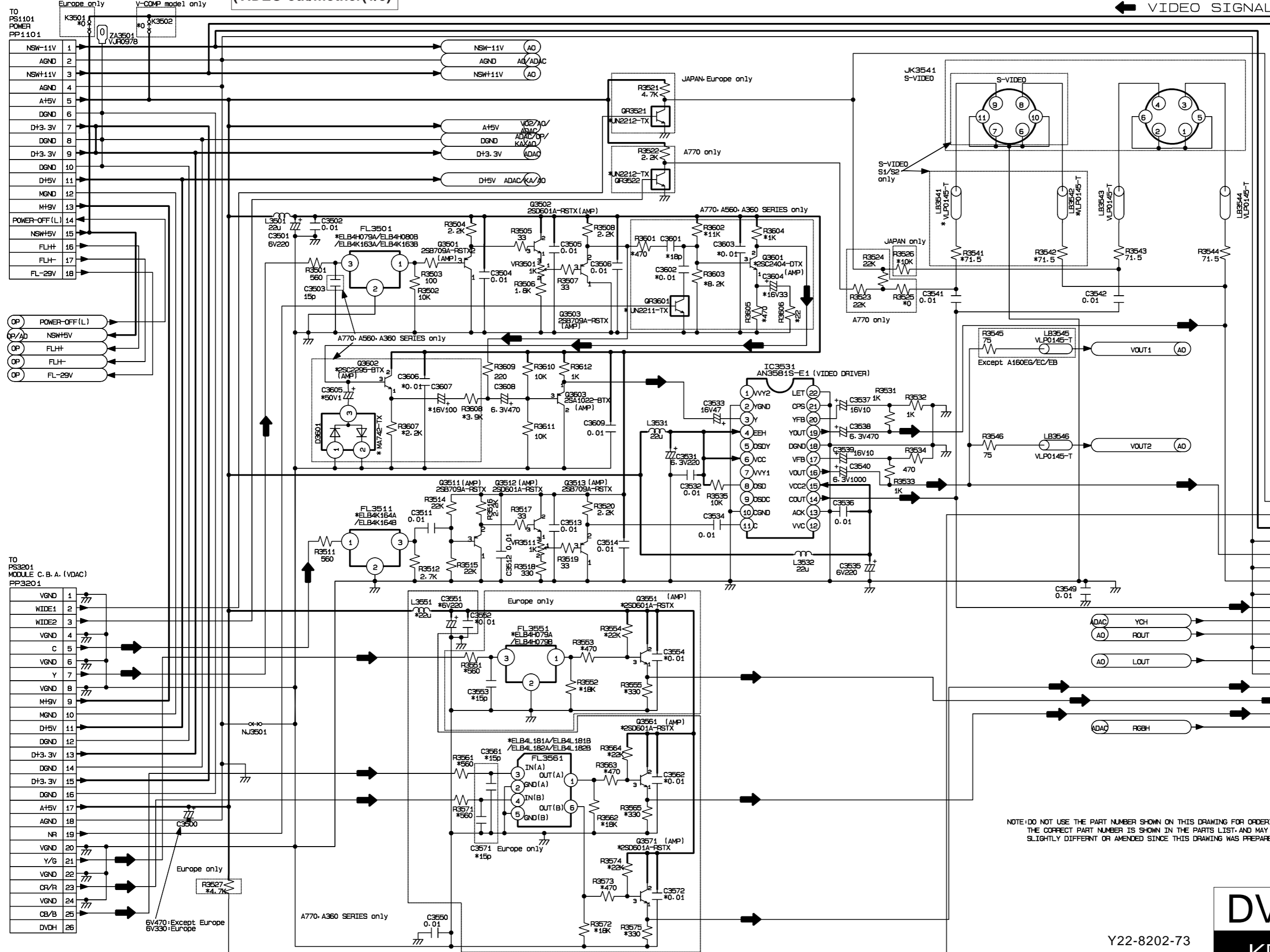
NOTE: DO NOT USE THE PART NUMBER SHOWN ON THIS DRAWING FOR ORDERING. THE CORRECT PART NUMBER IS SHOWN IN THE PARTS LIST, AND MAY BE SLIGHTLY DIFFERENT OR AMENDED SINCE THIS DRAWING WAS PREPARED.

CM CN CO CP CQ CR CS CT CU CV

Ref. No. 23500-23699
(VIDEO-out/mother(1/5))

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

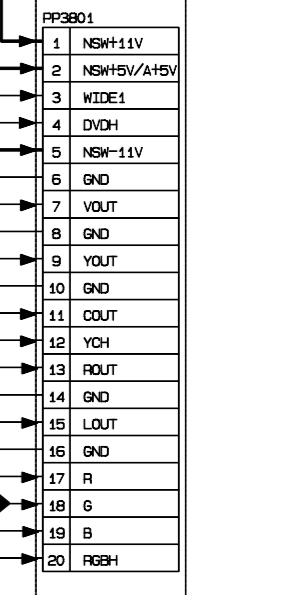
VIDEO SIGNAL



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.

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TO PS3801 SCART C.B.A. V-COMP and EUROPE mode1 only



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

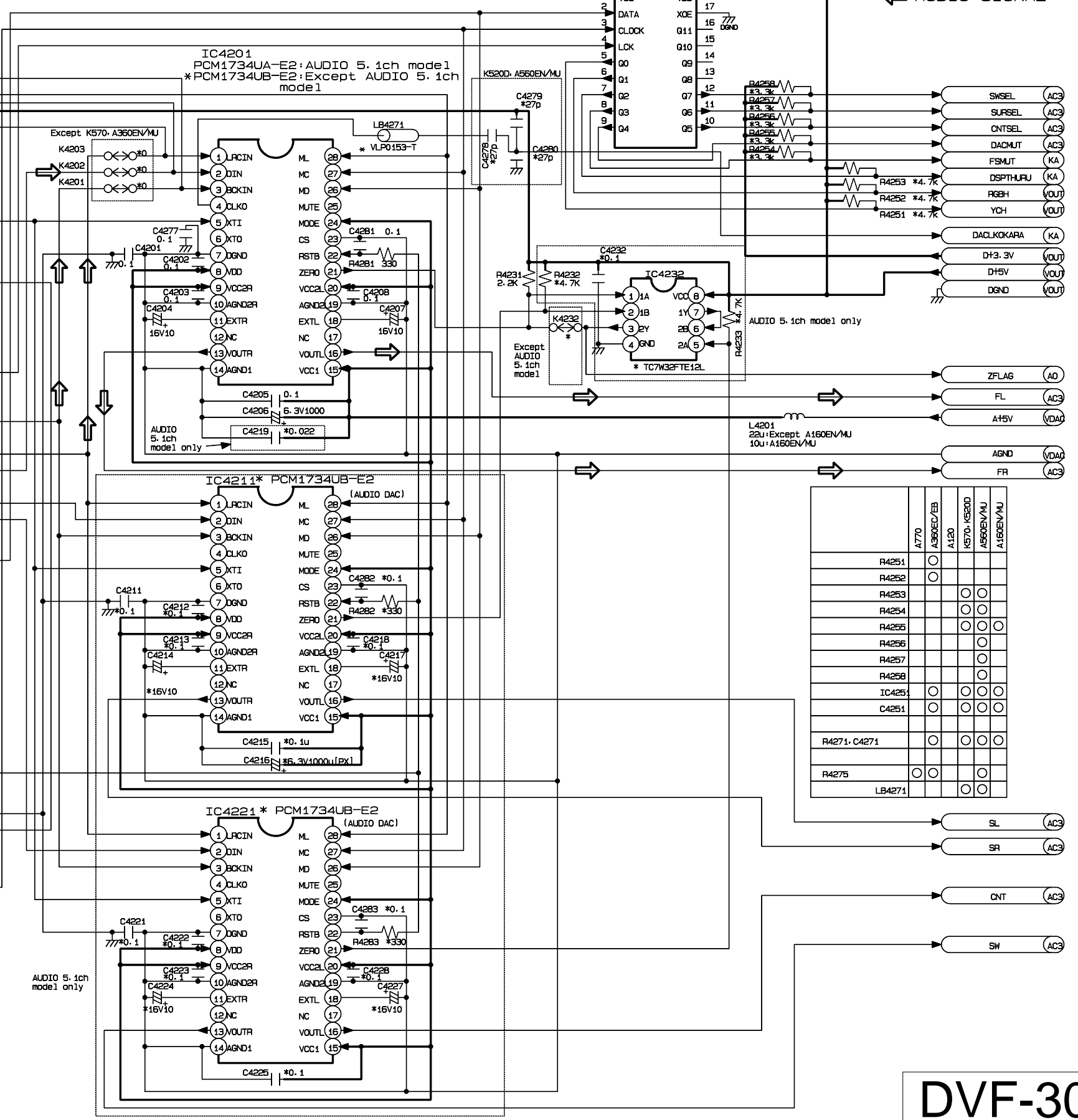
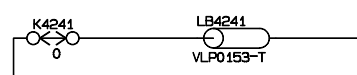
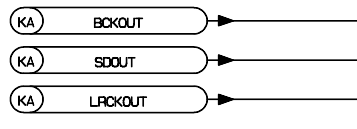
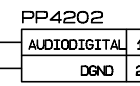
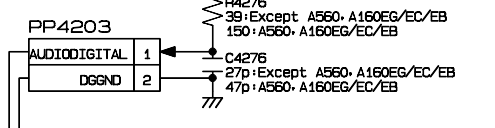
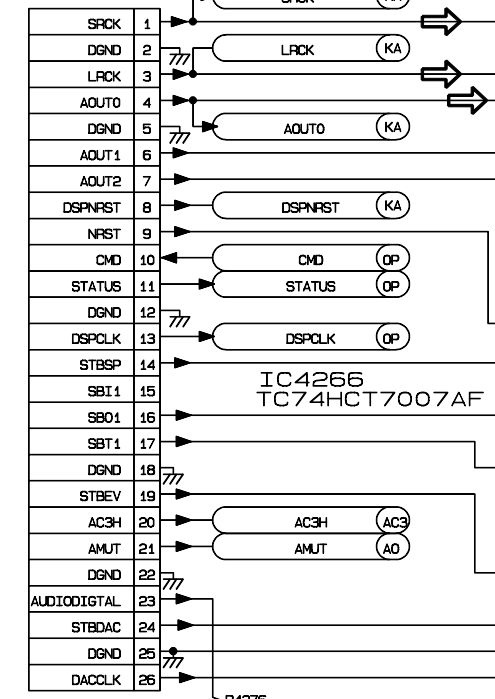
Ref. No. 24201-24299
 AUDIO/DAC/mother(2/5)

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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TO
 FP4201
 MODULE C.B.A. (CLK)
 PP4201



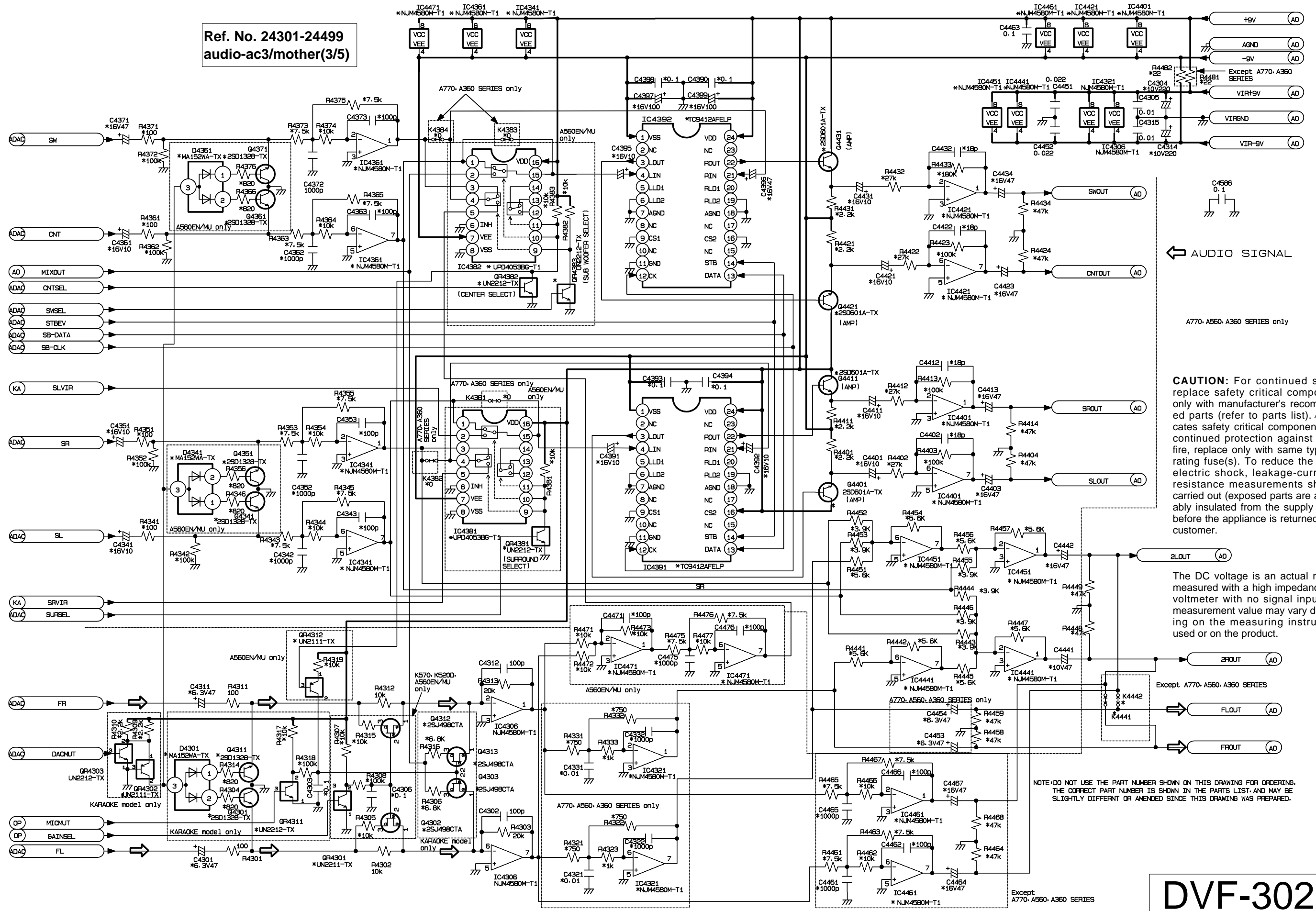
	A770	A360EC/EB	A160	K570-K9200	A560EN/MU	A160EN/MU
R4251						
R4252						
R4253						
R4254						
R4255						
R4256						
R4257						
R4258						
IC4251						
C4251						
R4271, C4271						
R4275						
LB4271						

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

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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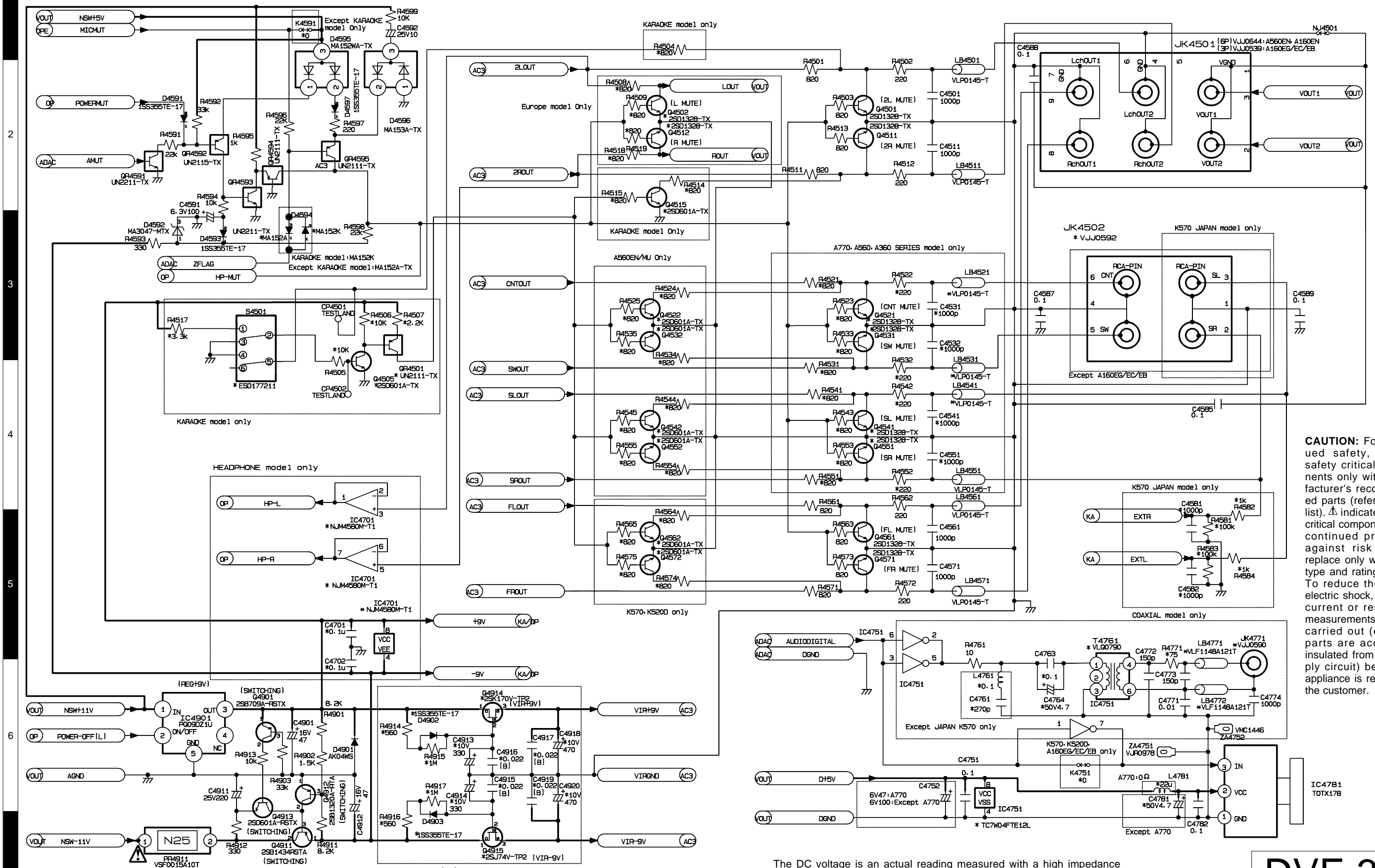
DVF-3020
KENWOOD


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

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



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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DVF-3020

Y22-8202-73

KENWOOD

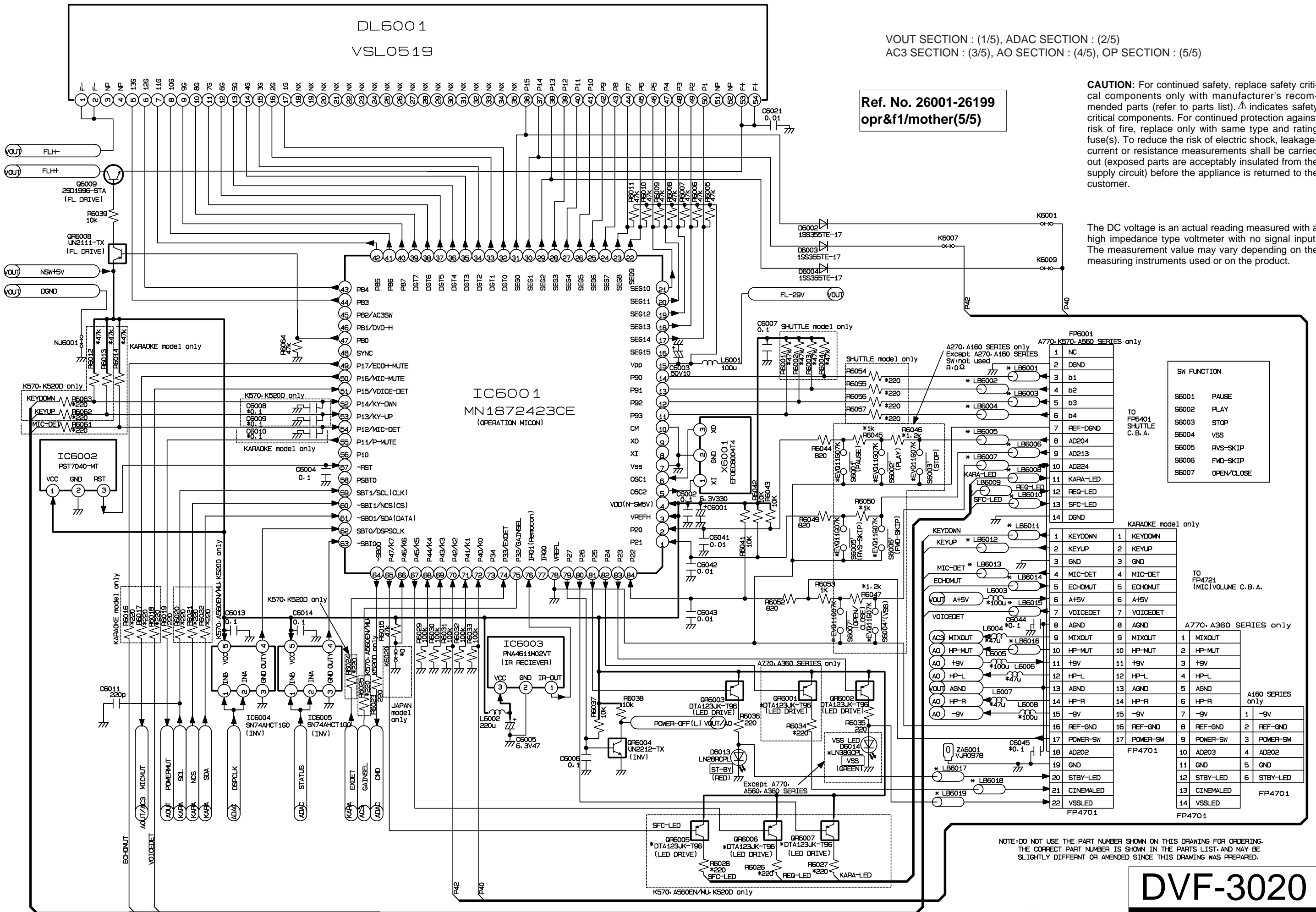
DL6001
VSL0519

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

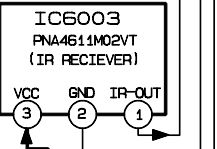
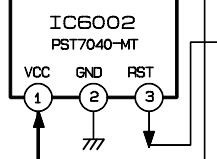
Ref. No. 26001-26199
opr&f1/mother(5/5)

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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IC6001
MN1872423CE
(OPERATION MICON)



SW FUNCTION

S6001	PAUSE
S6002	PLAY
S6003	STOP
S6004	VSS
S6005	RVS-SKIP
S6006	FWD-SKIP
S6007	OPEN/CLOSE

FP6001		A770: K570, A560 SERIES only	
1	NC	1	NC
2	DGND	2	DGND
3	b1	3	b1
4	b2	4	b2
5	b3	5	b3
6	b4	6	b4
7	REF-DGND	7	REF-DGND
8	AD204	8	AD204
9	AD213	9	AD213
10	AD224	10	AD224
11	KARA-LED	11	KARA-LED
12	REQ-LED	12	REQ-LED
13	SFC-LED	13	SFC-LED
14	DGND	14	DGND
KARAOKE model only		KARAOKE model only	
1	KEYDOWN	1	KEYDOWN
2	KEYUP	2	KEYUP
3	GND	3	GND
4	MIC-DET	4	MIC-DET
5	ECHOMUT	5	ECHOMUT
6	A+5V	6	A+5V
7	VOICEDET	7	VOICEDET
8	AGND	8	AGND
A770: A360 SERIES only		A770: A360 SERIES only	
9	MIXOUT	9	MIXOUT
10	HP-MUT	10	HP-MUT
11	+9V	11	+9V
12	HP-L	12	HP-L
13	AGND	13	AGND
14	HP-R	14	HP-R
15	-9V	15	-9V
16	REF-GND	16	REF-GND
17	POWER-SW	17	POWER-SW
18	AD202	18	AD202
19	GND	19	GND
20	STBY-LED	20	STBY-LED
21	CINEMALED	21	CINEMALED
22	VSSLED	22	VSSLED
FP4701		FP4701	
1	MIXOUT	1	MIXOUT
2	HP-MUT	2	HP-MUT
3	+9V	3	+9V
4	HP-L	4	HP-L
5	AGND	5	AGND
6	HP-R	6	HP-R
7	-9V	7	-9V
8	REF-GND	8	REF-GND
9	POWER-SW	9	POWER-SW
10	AD203	10	AD203
11	GND	11	GND
12	STBY-LED	12	STBY-LED
13	CINEMALED	13	CINEMALED
14	VSSLED	14	VSSLED
FP4701		FP4701	

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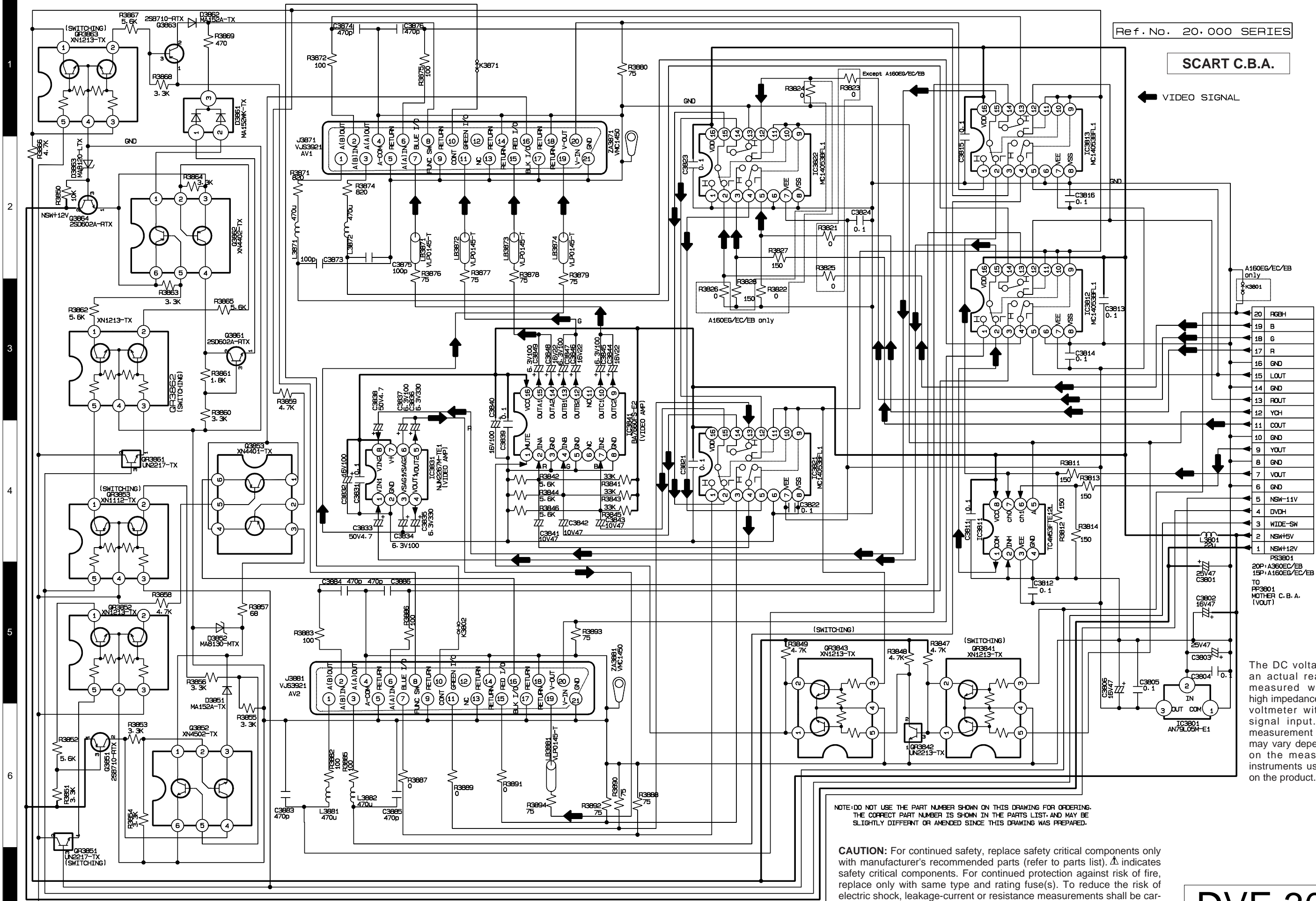
DVF-3020

KENWOOD

Ref. No. 20.000 SERIES

SCART C.B.A.

VIDEO SIGNAL



20	RGBH
19	B
18	G
17	R
16	GND
15	LOUT
14	GND
13	ROUT
12	YCH
11	COUT
10	GND
9	YOUT
8	GND
7	VOUT
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
 PF3801
 MOTHER C.B.A.
 (VOUT)

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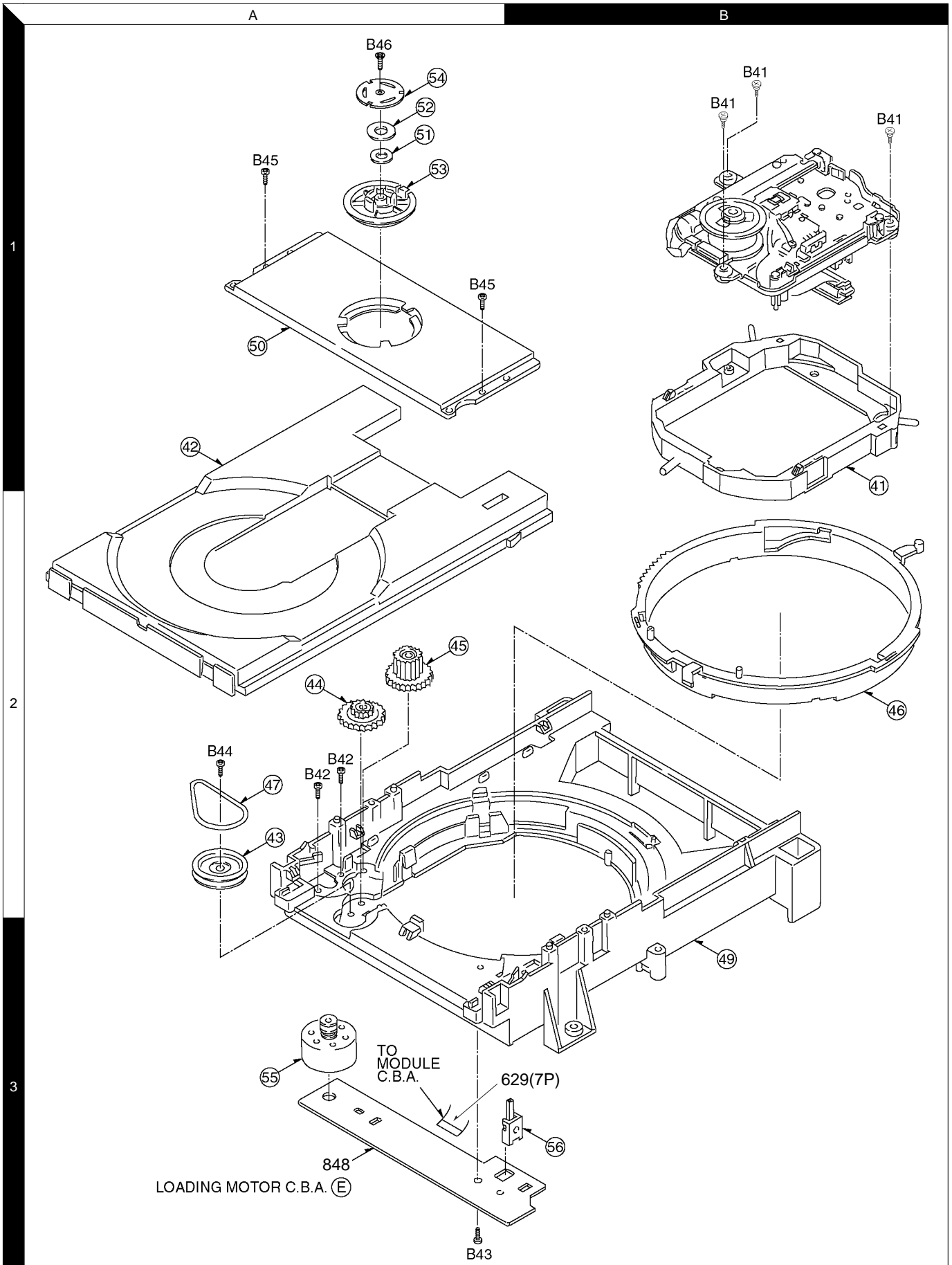
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DVF-3020

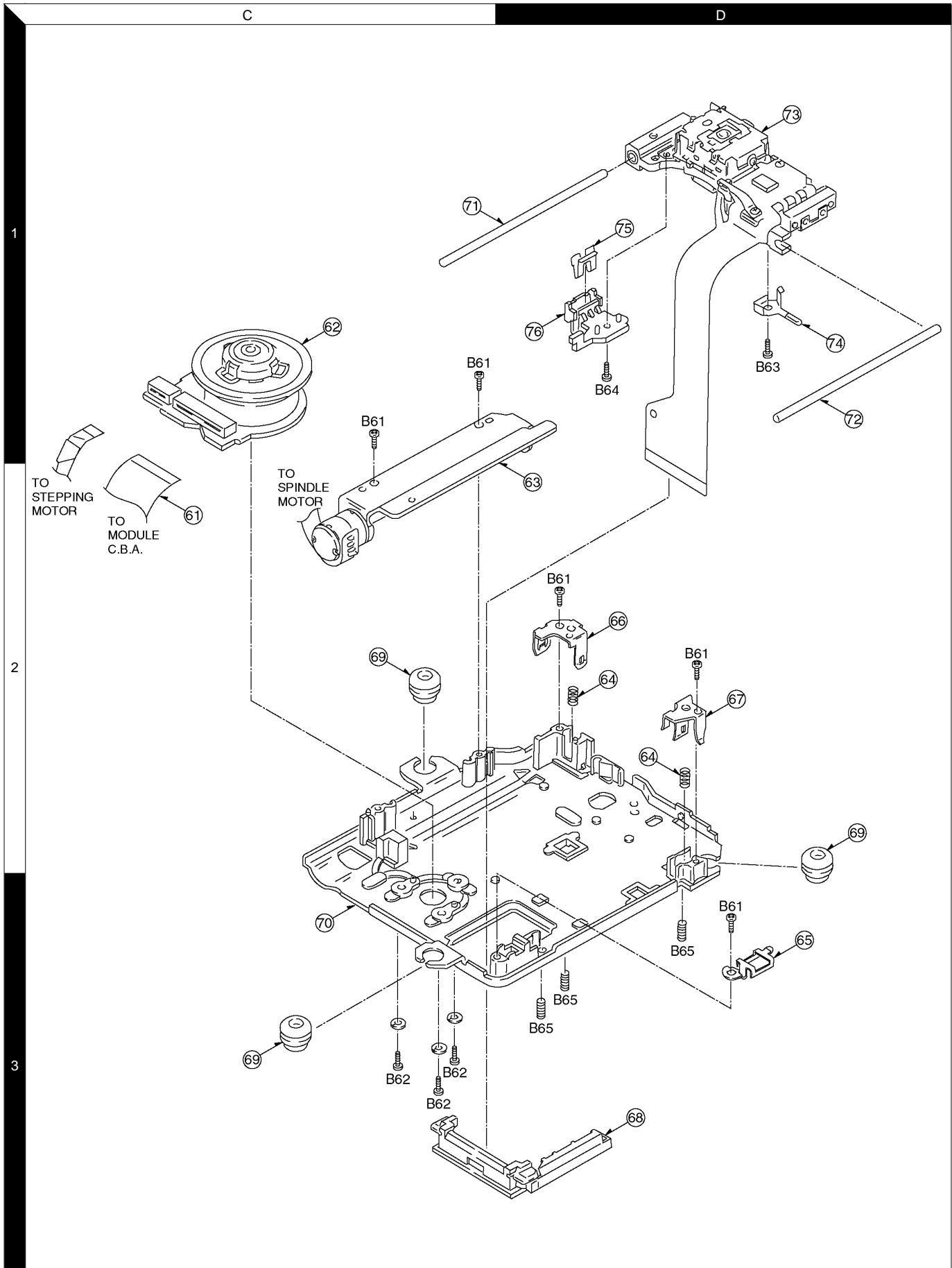
KENWOOD

EXPLODED VIEW (MECHANISM)

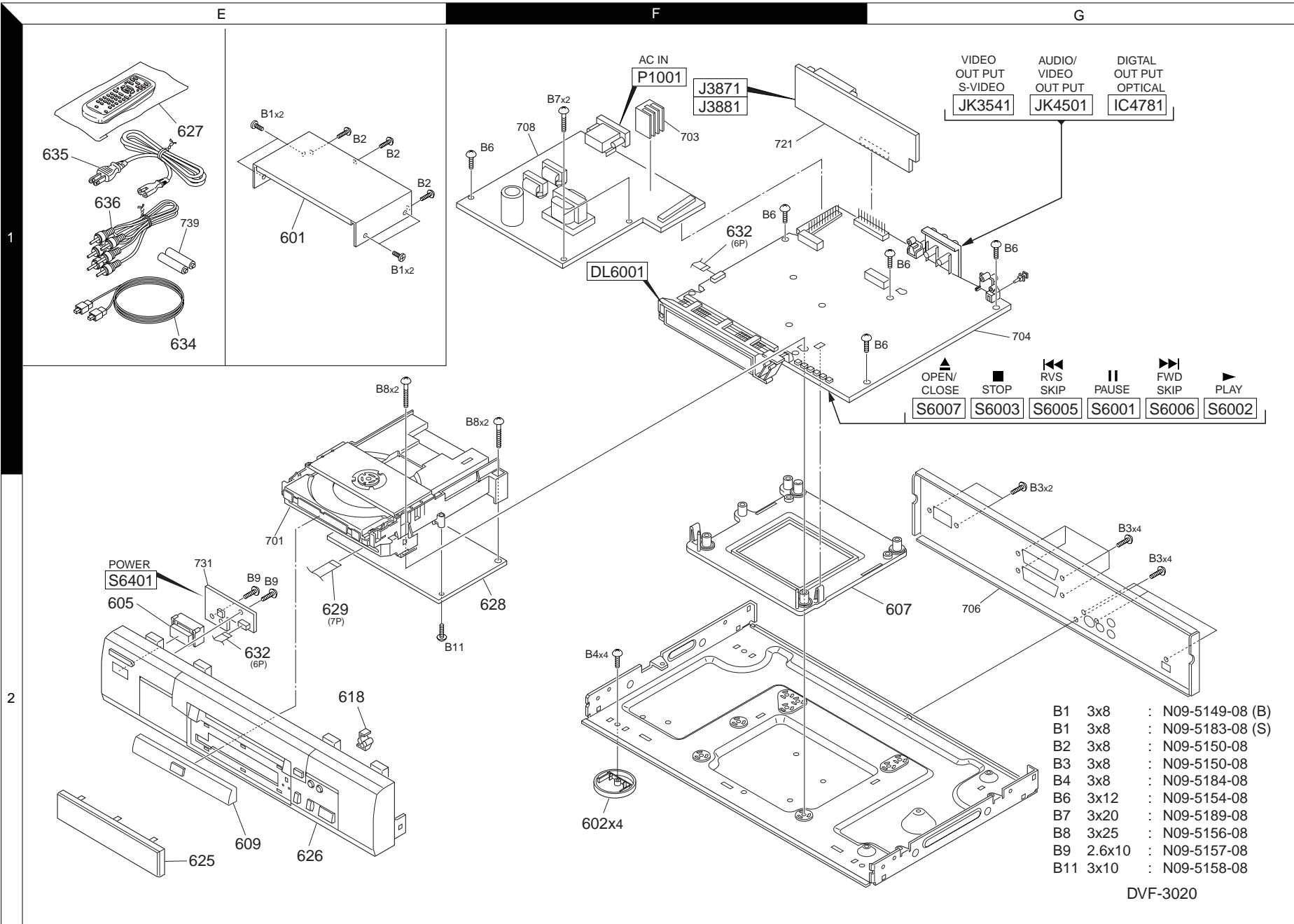


DVF-3020

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	B	
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	B	
609	2E	*	A29-1093-08	TRAY TOP VYF2639	S	
609	2E		A29-1094-08	TRAY TOP VYF2638	B	
618	2E		J19-6058-08	HOLDER VGL0812	B	
625	2E		B10-3573-08	FRONT COVER VKW2709	S	
626	2E	*	A60-1836-08	FRONT PANEL VYP7322	B	
626	2E	*	A60-1837-08	FRONT PANEL VYP7523	S	
627	1E		A70-1353-08	REMOTE CONTROL UNIT,VEQ2324	B	
628	2F	*	J26-0107-08	MODULE CBA VEP96541G	S	
629	2E		E35-2508-08	LOADING FFC(7P) VWJ1278	B	
632	2E,1F		E35-2509-08	6P FLEX CABLE VWJ06C9170BB	B	
634	1E	*	B19-1615-08	OPTICAL CABLE VJA1031	S	
635	1E		E30-2946-08	AC CORD VJA0664	B	
636	1E		E30-2938-08	A/V CORD VJA1062	S	
-			B46-0310-03	WARRANTY CARD	B	
-			B58-0966-13	CAUTION CARD	B	
-		*	B60-4485-08	OPERATING INSTRUCT.VQT8380	B	
-		*	B60-4486-08	OPERATING INSTRUCT.VQT8381	B	
-		*	H09-0133-08	ACCESSORY CASE,VPK1891Z	B	
-		*	H10-7642-08	CUSHION(L) VPV5241	B	
-			H10-7643-08	CUSHION(R) VPV5242	B	
-			H25-1666-08	POLYETHYLENE BAG,VPF0693	B	
-		*	H50-3693-08	PACKING CASE VPG0B79	S	
-		*	H50-3701-08	PACKING CASE VPG0B80	B	
B1			N09-5149-08	SCREW VHD1041	S	
B1			N09-5183-08	SCREW VHD1094	B	
B2			N09-5150-08	SCREW VHD0690	S	
B3			N09-5150-08	SCREW VHD0690	B	
B4			N09-5184-08	SCREW XTV3+8GFZ	B	
B6			N09-5154-08	SCREW XYE3+EF12	B	
B7		*	N09-5189-08	SCREW XYE3+EF20	B	
B8			N09-5156-08	SCREW XYE3+EF25	B	
B9			N09-5157-08	SCREW XTBS26+10J	B	
B11			N09-5158-08	SCREW XTV3+10G	B	
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		

L : Scandinavia K : USA P : Canada R : Mexico C : China I : Malaysia
Y : PX(Far East,Hawaii) T : England E : Europe G : Germany V : China(Shanghai)
Y : AAFES(Europe) X : Australia Q : Russia H : Korea M : Other Areas Δ indicates safety critical components .

* New Parts

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②

Ref. No	Add-ress	New Parts	Parts No.	Description	Desti-nation	Re-marks
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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3

Ref. No	Add-ress	New Parts	Parts No.	Description	Desti-nation	Re-marks
C3031			C90-3885-08	ELECTRO	330UF	6.3WV
C3032-34			CK73FB1A105K	CHIP C	1.0UF	Z
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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4

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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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DVF-3020

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7

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

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LB6511			L90-0341-08	CHIP INDUCTOR		
LB6521			L90-0341-08	CHIP INDUCTOR		
LB6522			L92-0084-08	COIL		
LB6523			L90-0341-08	CHIP INDUCTOR		
LB6525,26			L92-0084-08	COIL		
LB6542			L90-0341-08	CHIP INDUCTOR		
LB6543			L92-0084-08	COIL		
LB6562			L90-0341-08	CHIP INDUCTOR		
LB6563,64			L92-0084-08	COIL		
LB6565			L90-0341-08	CHIP INDUCTOR		
LB6582			L92-0084-08	COIL		
LB6583			L90-0314-08	COIL		
LB6584			L92-0084-08	COIL		
LB6585			L90-0314-08	COIL		
LB6586			L92-0084-08	COIL		
Δ T1021			L07-2856-08	POWER TRSNSFORMER.ETS29AD4H6AC		
X6001			L78-0710-08	CERAMIC OSCILLATOR.EF0EC8004A4		
X6501			L77-2280-08	CRYSTAL OSCILLATOR.VSX1044		
K3201			RK73GB1J000J	CHIP R	0.0	J 1/16W
K3203			RK73GB1J000J	CHIP R	0.0	J 1/16W
K3801,02			RK73FB2A000J	CHIP R	0.0	J 1/10W
K3871			RK73FB2A000J	CHIP R	0.0	J 1/10W
K4201			RK73FB2A000J	CHIP R	0.0	J 1/10W
K4232			RK73FB2A000J	CHIP R	0.0	J 1/10W
K4241			RK73FB2A000J	CHIP R	0.0	J 1/10W
K4591			RK73FB2A000J	CHIP R	0.0	J 1/10W
K4751			RK73FB2A000J	CHIP R	0.0	J 1/10W
K5201-05			RK73GB1J000J	CHIP R	0.0	J 1/16W
K6003			RK73FB2A000J	CHIP R	0.0	J 1/10W
K6008			RK73FB2A000J	CHIP R	0.0	J 1/10W
K6015			RK73FB2A000J	CHIP R	0.0	J 1/10W
K6021,22			RK73FB2A000J	CHIP R	0.0	J 1/10W
K6023			RK73FB2A000J	CHIP R	0.0	J 1/10W
K6541,2			RK73GB1J000J	CHIP R	0.0	J 1/16W
K7002			RK73GB1J000J	CHIP R	0.0	J 1/16W
L2501			R90-1308-08	CHIP R	0.0	J 1/4W
L3001			R90-1308-08	CHIP R	0.0	J 1/4W
L6201			R90-1308-08	CHIP R	0.0	J 1/4W
L7002			R90-1308-08	CHIP R	0.0	J 1/4W
R1002			RD14BB2H334K	RD	330K	K 1/2W
R1021			R92-1930-08	METAL FILM	39K	J 1W
R1023			R92-1931-08	METAL FILM	0.82	J 1W
R1033			RD14BB2H100J	RD	10	J 1/2W
R1055			R92-1932-08	RD	3.9M	J 1/2W
R1056			RD14BB2H475J	RD	4.7M	J 1/2W
R2001			RK73GB1J103J	CHIP R	10K	J 1/16W
R2003			RK73GB1J223J	CHIP R	22K	J 1/16W
R2004			RK73GB1J123J	CHIP R	12K	J 1/16W
R2005			RK73GB1J183J	CHIP R	18K	J 1/16W
R2006			RK73GB1J822J	CHIP R	8.2K	J 1/16W
R2008-10			RK73GB1J473J	CHIP R	47K	J 1/16W
R2011			R90-0996-08	RADDER RESISTOR.EXBV4V473J		
R2012			RK73GB1J472J	CHIP R	4.7K	J 1/16W
R2014			RK73GB1J472J	CHIP R	4.7K	J 1/16W

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DVF-3020

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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			ENC471D5ATR S1WBA80 AP01C RD100E AU01Z	DIODE DIODE DIODE ZENER DIODE DIODE		ENC471D5ATR
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,TOTX178A 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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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:

- Frequency response:
 - DVD (linear audio): 2 Hz–22 kHz (48 kHz sampling)
 - 2 Hz–44 kHz (96 kHz sampling)
 - 2 Hz–20 kHz (EIAJ)
- S/N ratio:
 - CD audio: 115 dB (EIAJ)
- Dynamic range:
 - DVD (linear audio): 106 dB
 - CD audio: 100 dB (EIAJ)
- 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:

- 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)
- Relación señal a ruido:
 - CD de audio: 115 dB (EIAJ)
- Gama dinámica:
 - Audio lineal de DVD: 106 dB
 - CD de audio: 100 dB (EIAJ)
- 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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