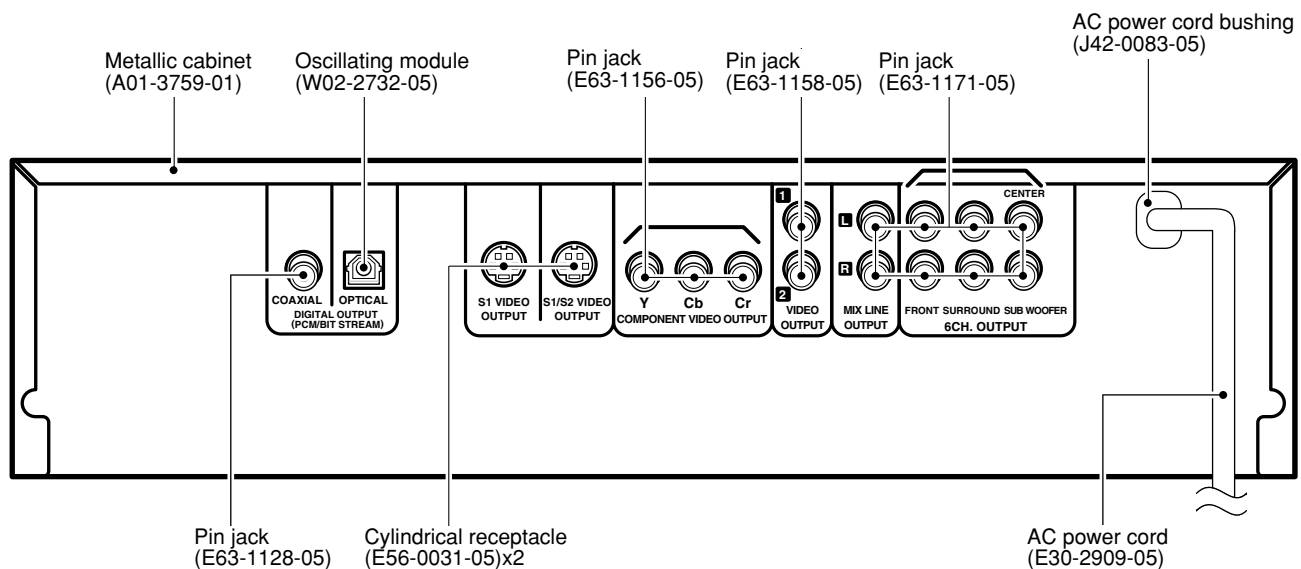
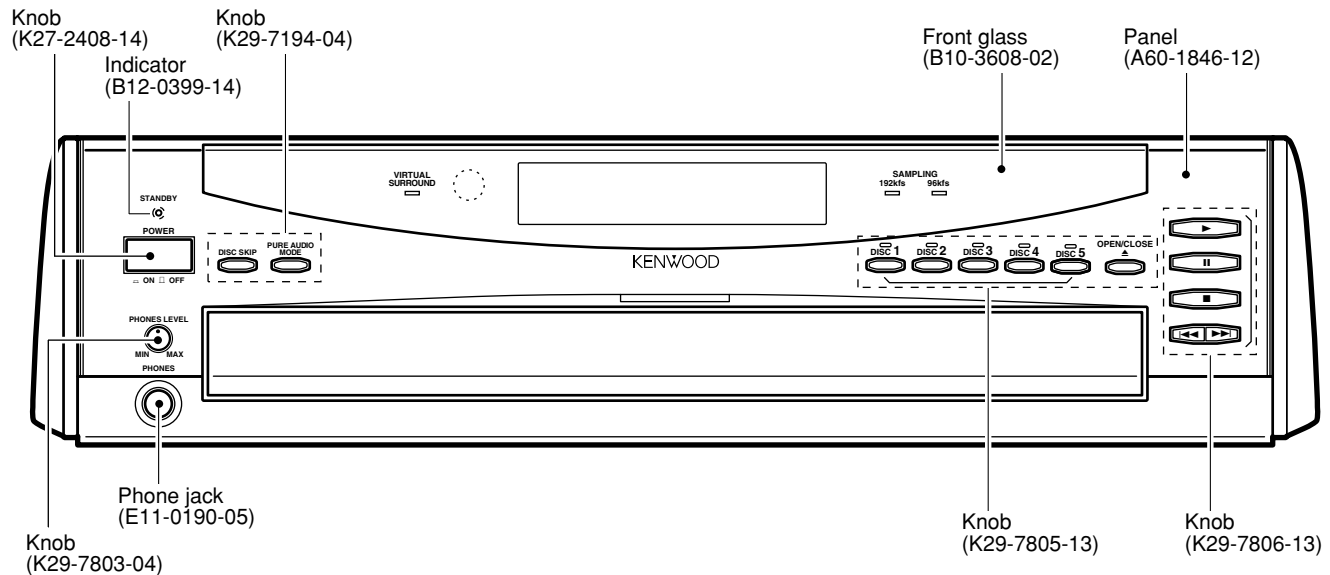


DV-4070-B/4900

DVF-R7030-B/R9030

SERVICE MANUAL



Illust. is DV-4900.

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

KENWOOD-Corp. certifies this equipment conforms to DHHS Regulations No.21 CFR 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.



DV-4070-B/4900/DVF-R7030-B/R9030

CONTENTS / ACCESSORIES

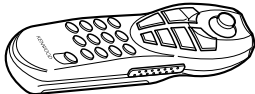
Contents

CONTENTS / ACCESSORIES	2	PC BOARD	19
DISASSEMBLY FOR REPAIR	3	SCHEMATIC DIAGRAM	23
CIRCUIT DESCRIPTION	5	EXPLODED VIEW	41
ADJUSTMENT	17	PARTS LIST	43
PARTS DESCRIPTIONS	18	SPECIFICATIONS	54

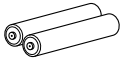
Note: Please contact our KENWOOD Service Department in your side if you want the information; Main Microprocessor(MN10102LP25G),Sub Microprocessor(MN101C28C) ports explanation, D.R. I.V.E. II and SCART Circuit Description and full(previous) format Parts list on this model. You can be available them by internet from us.

Accessories

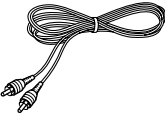
Joystick remote control unit (1)
(A70-1412-05)



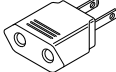
Batteries (R6/AA)(2)



Video cable(1)
(E30-1427-05)

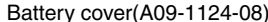


AC plug adapter (1)
(E03-0115-05)

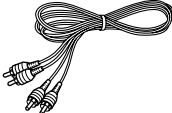


Use to adapt the plug on the power cord to the shape of the wall outlet.
(Accessory only for regions where use is necessary.)

Battery cover(A09-1124-08)



Audio cables(3)
(E30-0505-05)



Optical fiber cable(1)
(B19-1529-05)



S Video cable(1)
(E30-2956-05)



Instructoin manual/
separate User's Guide (1)



Malfunction of Microcomputer

In case the microcomputer malfunctions, making operations impossible or showing wrong messages on the display even if you connected everything properly. When the microcomputer malfunctions, perform the following procedure to reset the microcomputer and return it to the normal condition.

1. While holding  on the player main unit, press  .
 2. The display on the main unit shows blinking "INIT" (initializing), then shows "INIT OK!" (Initialization OK) to indicate that the microcomputer is reset.
 3. Press  on the main unit to turn it off, then press it again to turn it on.
- The resetting clears the setups stored in the microcomputer and returns it to the factory-set initial condition. After resetting, you should perform the various setups of the player again from the beginning.

Transport or moving precautions

When transporting or moving the player, first remove the disc and observe the following procedure.

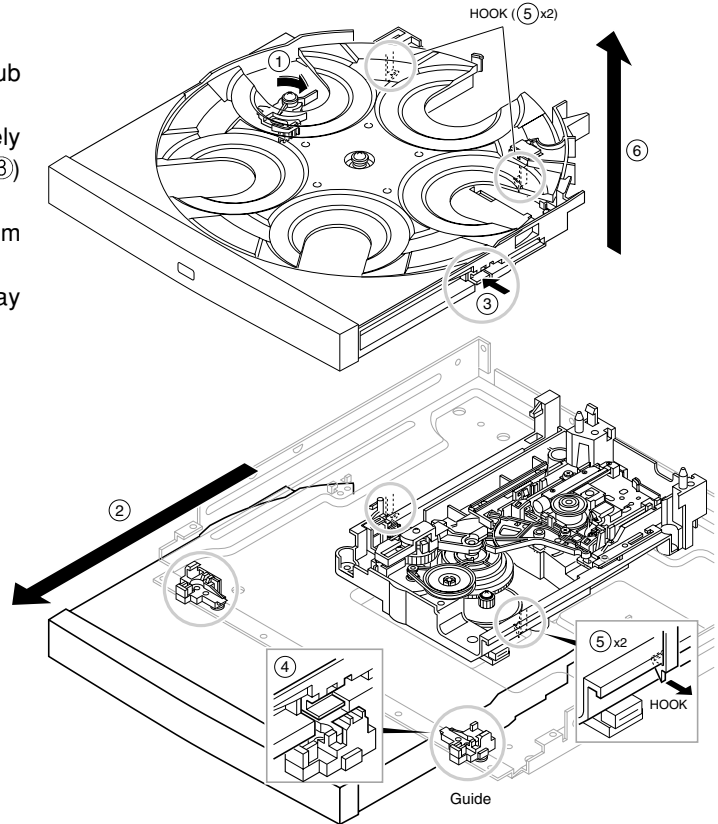
1. Turn the player power on.
2. Wait for a few seconds, until the display shows "**NO DISC**".
3. Turn the player power off by pressing  .

DV-4070-B/4900/DVF-R7030-B/R9030

DISASSEMBLY FOR REPAIR

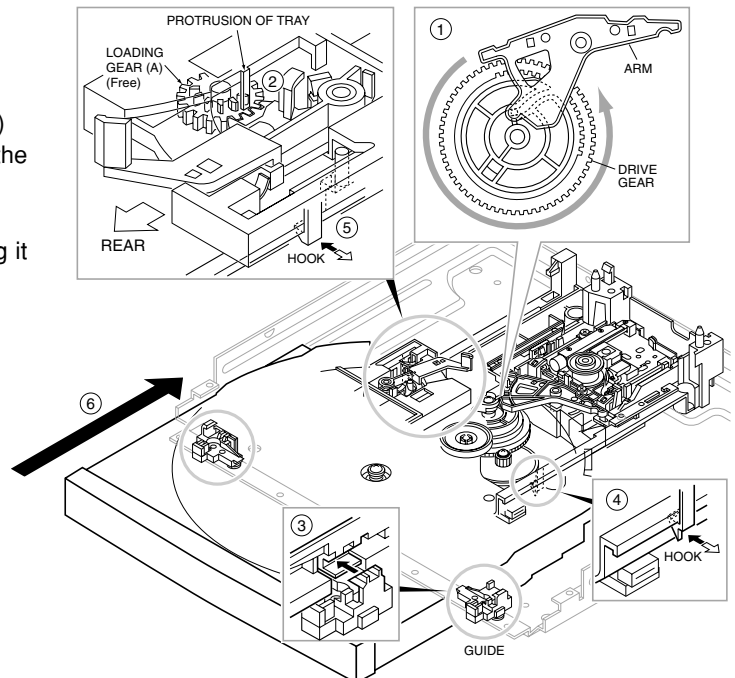
1. How to Remove Tray

1. Remove the front panel and flexible cable.
Disassemble the X25 and power supply pcb with sub chassis if it is a difficult.
2. Push and hold the lever(①)to clockwise and pull barely out the tray to frontwards(②) where the hook of tray(③) meets with guide(④).
3. Push hooks(③), both sides, inwards and release them from guides(④).
4. Pull hooks of tray(⑤) outwards and remove the tray upwards(⑥).



2. How to Assemble Tray

1. Adjust the position of drive gear as figure(①).
Check traverse unit is at the lowest position.
2. Load the tray on the loading mechanism.
Check the position where the loading gear(A) is free(②).
3. Meet the hooks with guides and push hooks to load the tray(③).
4. Set the right side hook to loading mechanism(④).
5. Set the left side hook to loading mechanism with pulling it outwards(⑤).
6. Push the tray backwards(⑥).

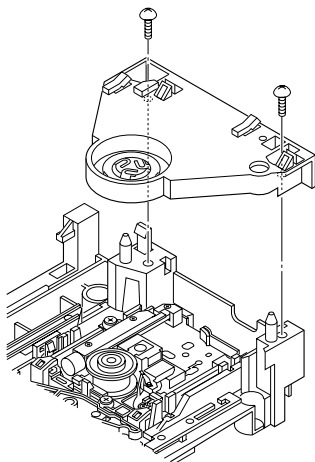


DV-4070-B/4900/DVF-R7030-B/R9030

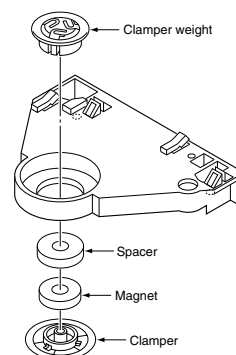
DISASSEMBLY FOR REPAIR

3. How to Remove Clamper Ass'y

1. Remove screws.

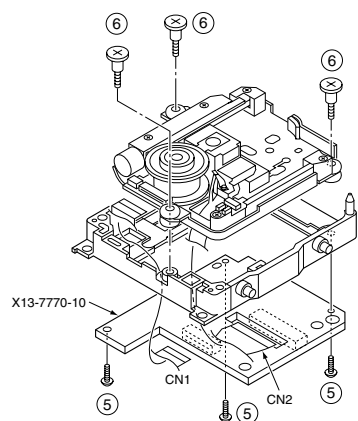
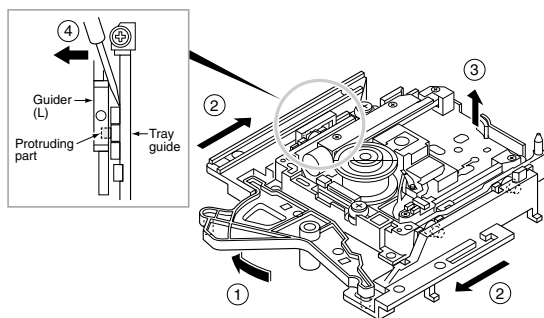


4. How to Disassemble Clamper Ass'y



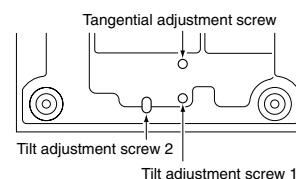
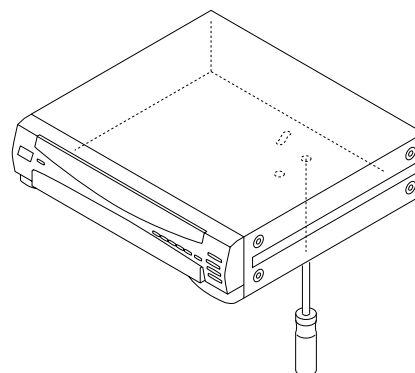
5. How to Disassemble Traverse Unit

1. Move the traverse to upward by turning motor pulley (①~③).
2. Make the gap between the tray guide and guider(L) with driver(④)
3. Remove the screws(⑤, ⑥).

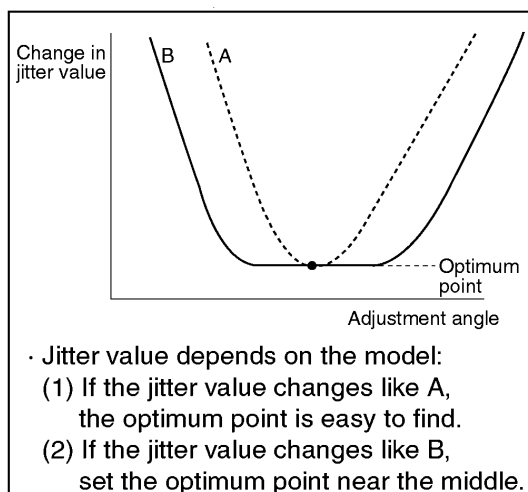


6. Tangential and Tilt Adjustment

1. Turn the power on with pressing the DISC 1 key.
(Display shows "INSPECTION"; test mode.)
2. Press the DISC1 key in playback mode again.
Display shows "Jitter *** %"
3. Turn off if cancel test mode.



REAR



DV-4070-B/4900/DVF-R7030-B/R9030

CIRCUIT DESCRIPTION

MAIN MICROPROCESSOR: MN102LP25G(X35,IC500)

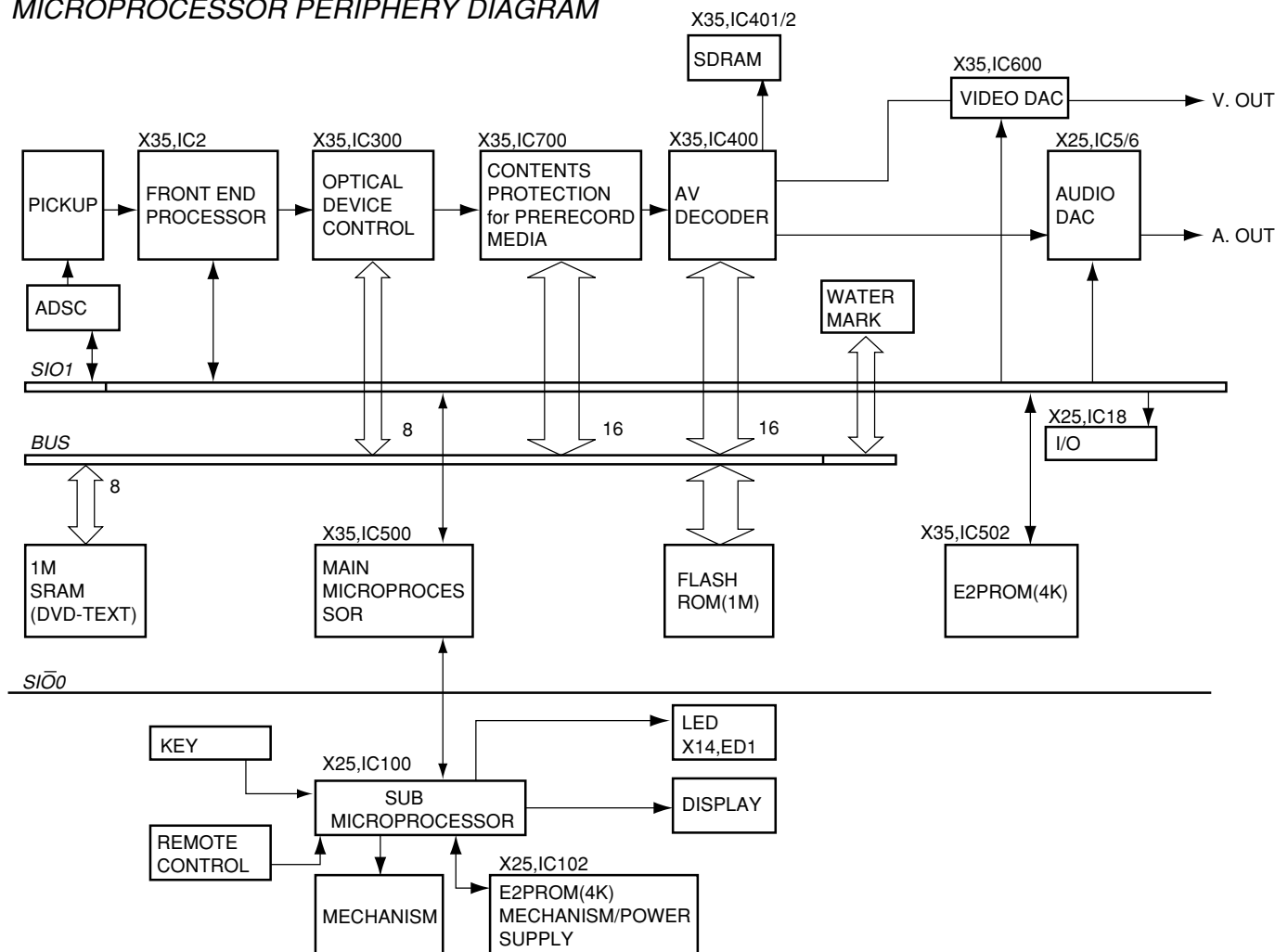
Port No.	Port Name	I/O	Description
1	WAIT	O	Optical Device Control(ODR) wait
2	NRD	O	Read(RD) port for ODC/AV
3	-	-	No use
4	NWA	O	write(WR)
5	RAMCS	O	Chip Select(CS) Flash RAM
6	ODCCS	O	Chip Select(CS) ODC
7	AVCS	O	Chip Select(CS) AV decoder
8	RAMCS	O	Chip Select(CS) DRAM for TEXT buffer
9	SCLOCK	O	Clock of Video DAC(ADV7172)
10	SDATA	O	Data of Video DAC(ADV7173)
11	FRD	O	Read(RD) port for Flash ROM
12	MODE2	I	H: Chip Select 0, 8bit bus
13-16	CPUADR0-3	O	Address A(0-3)
17	Vdd	I	+5V
18	SYSCLK	O	AV decoder HCLK
19	Vss	O	GND
20	XI	I	Clock input port
21	XO	O	Clock output port
22	Vdd	I	+5V
23	CLK	I	13.5MHz clock input port
24	OSCO	O	No use
25	MODE2	I	CPU mode: H=Memory enhanced mode
26-33	CPUADR4-11	O	Address A(4-11)
34	Vdd	I	+5V
35-42	CPUADR12-19	O	Address A(12-19)
43	Vss	-	GND
44	196BSY	I	Busy of writing jig
45	256BSY	O	Busy of unit
46	ATTL	O	Analog output attenuator L: active
47	-	-	No use
48	KMODE	I	writing mode. H=writing. L=normal.
49	AMUTE	O	Audio mute
50	ADSCEN	I	CIRC enable
51	-	O	No use
52	SLEEP	O	Front End Processor(AN8825) standby
53	FRNTH	O	Front DAC selector. H=front.
54	Vdd	-	+5V
55	FEPEN	I	Front End Processor SEN
56	CLKSEL	O	Sampling frequency selector. L=44,88,176kHz, H=48,96,192kHz
57	STBDAC2	O	DAC2(AK4393) Strob
58	STBSP	O	Serial/parallel(NJU3711) Strob
59	STBDAC1	O	DAC1(AK4393) Strob
60	ADSC	O	Advanced Digital Servo Control serial data transfer.
61	Vss	O	GND
62	-	O	No use
63	XS	O	Chip Select of E2PROM
64	SCSIEN	O	Enable control of writing jig. L=enable
65	DARK-DET	I	Video signal check by Y-signal
66	Vdd	I	+5V
67	SCLKO	O	Sub-microprocessor clock
68	SIO	I	Sub-microprocessor data input
69	SOO	O	Sub-microprocessor data output
70	SCLKI	O	Clock for every lcs

DV-4070-B/4900/DVF-R7030-B/R9030

CIRCUIT DESCRIPTION

Port No.	Port Name	I/O	Description
71	S11	I	Data input for every ICs
72	S01	O	Data output for every ICs
73,74	PUP	I	No use. Pull up
75	NMI	I	Pull up.
76	ADSCINT	I	Interrupt of Advanced Digital Servo Control
77	ODCINT	I	Interrupt of Optical Device Control.
78	AVINT	I	AV decoder XHINT.
79	ICRST	O	Reset for every lcs. H=reset.
80	STBDAC3	O	Standby of DAC3
81	-	I	Address/data mode. Pull up=address/data separate.
82	RST	I	Reset
83	Vdd	I	+5V
84-91	CPUDATA0-7	I/O	Data bus(0-7)
92	Vss	O	GND
93-100	CPUDATA8-15	I/O	Data bus(8-15)

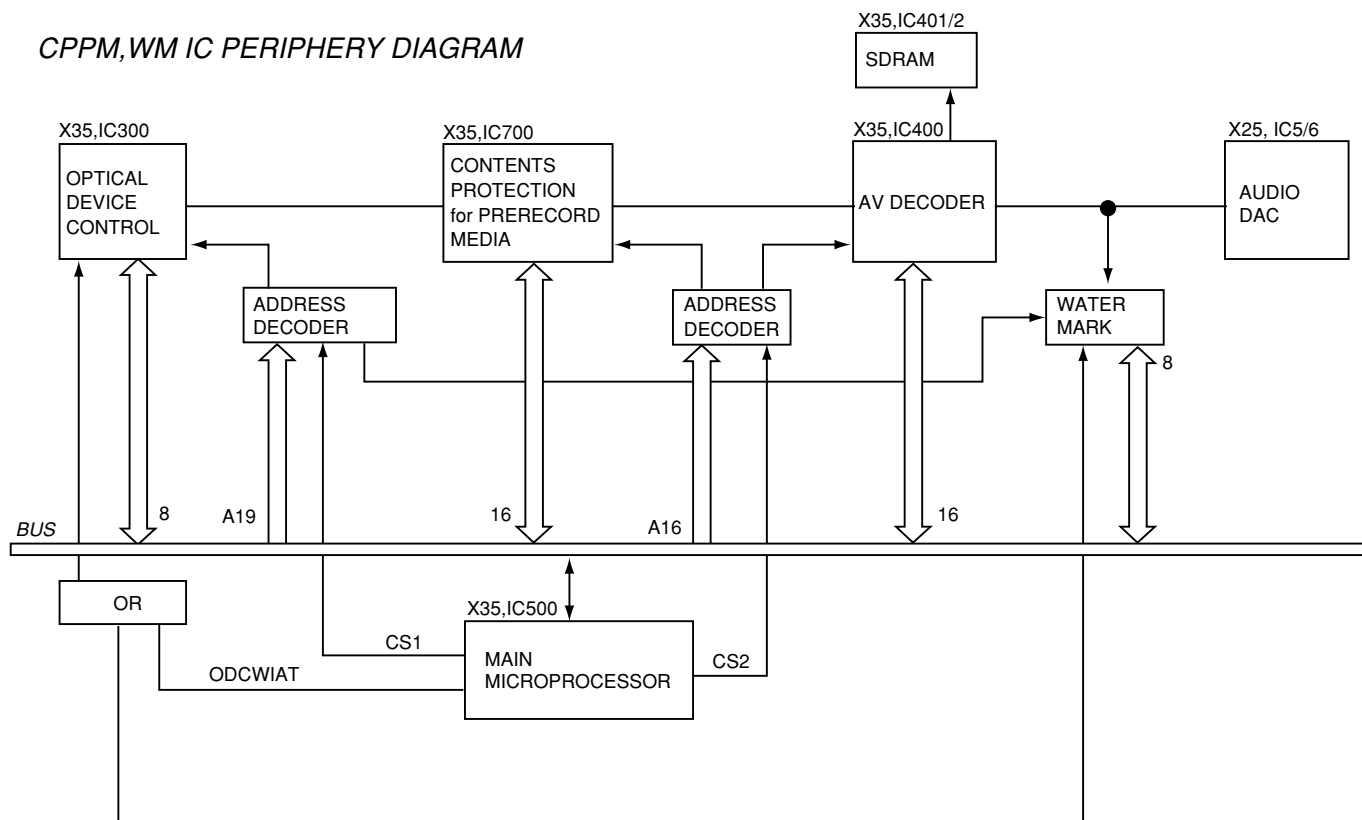
MICROPROCESSOR PERIPHERY DIAGRAM



DV-4070-B/4900/DVF-R7030-B/R9030

CIRCUIT DESCRIPTION

CPPM,WM IC PERIPHERY DIAGRAM



INITIALIZATION

Turn power-on with pressing the STOP key. You can separate from initialization mode if pull out the ac power cord.

	Step function	Remarks
1	POWER-ON	Display shows blinking "INITI"
2	CD-TRAY CLOSE.	
3	DISC-POSITION-SW ON	
4	ROTARY-SW ON	
5	TRAVERSE-UNIT	
6	RAM & BACKUP INITIALIZE	Display shows "INITI_OK" if no trouble. "INITI_NG if any trouble.

SUB MICROPROCESSOR:MN101C28C(X25,IC100)

Port No.	Port Name	I/O	Description
1	VREF-	O	Negative reference voltage for AD converter.
2-4	KEY0-2	I	Key input for AD
5,6	KEY3,4	O	No use
7	KISYU	I	Model selector
8,9	KID0,1	I	Destination selector
10	VREF+	O	Positive reference voltage for AD converter.
11	Vdd	O	+5V
12	OSC2	I	Clock input,10MHz

DV-4070-B/4900/DVF-R7030-B/R9030

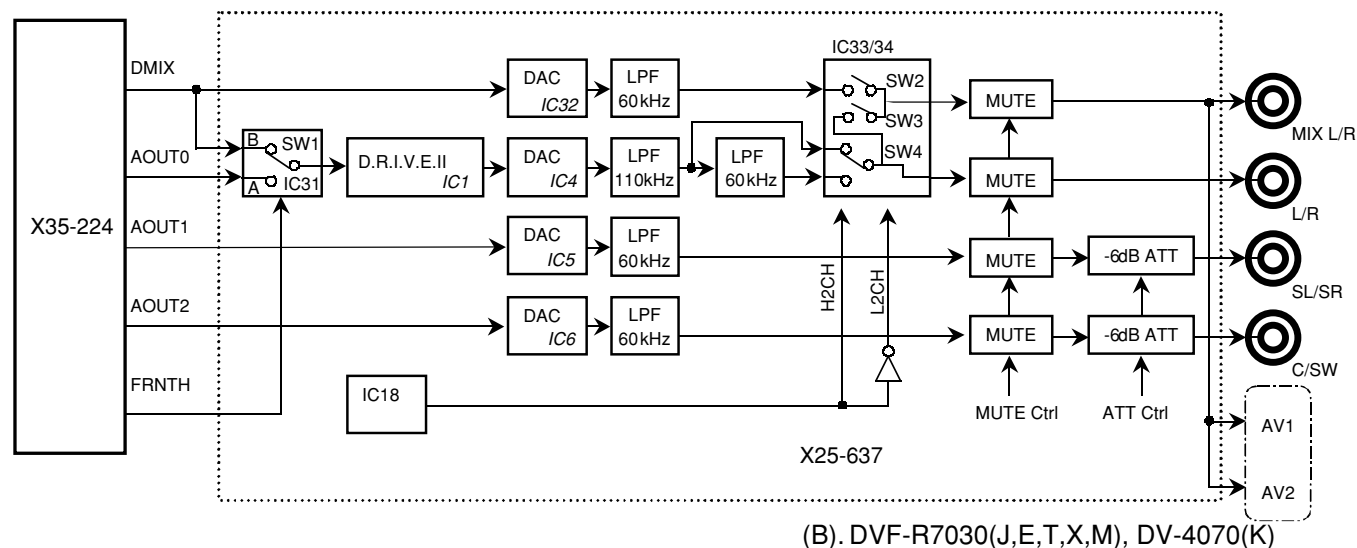
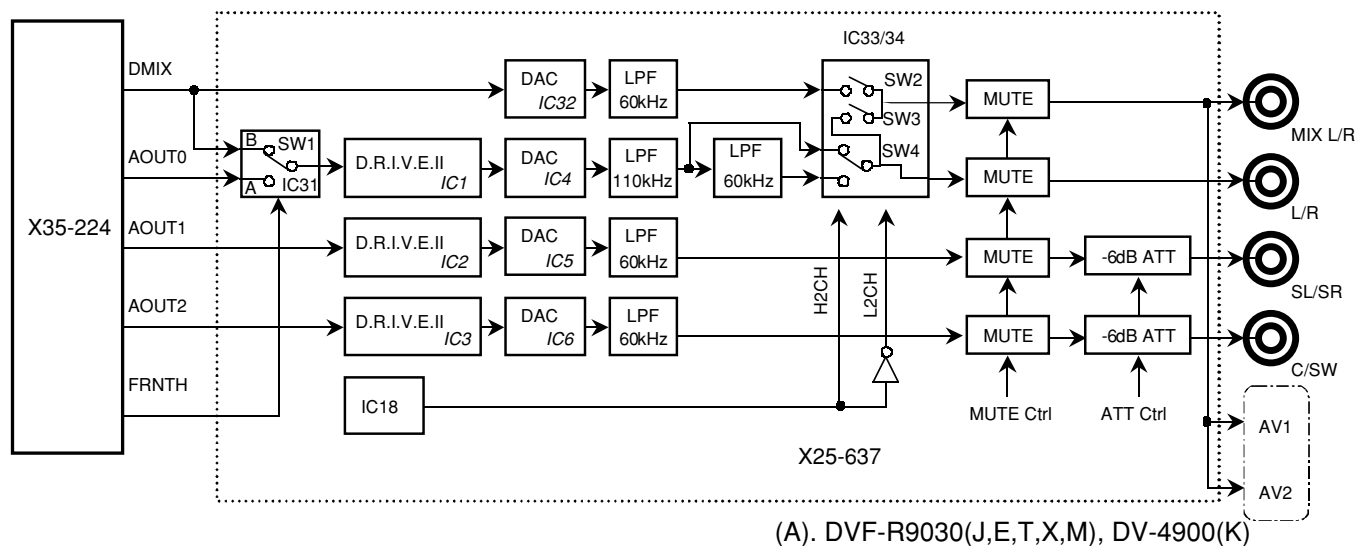
CIRCUIT DESCRIPTION

Port No.	Port Name	I/O	Description
13	OSC1	O	Clock output
14	Vss	O	GND
15	XI	I	No use
16	XO	O	No use
17	MMOD	I	GND
18	TXD0	O	SIO0 data output port. Main processor contact.
19	RXD0	I	SIO0 data input port. Main processor contact.
20	SCK0	O	SIO0 clock
21	SB01	O	SIO1 data output port. FL driver contact.
22	SB11	I	SIO1 data input port. FL driver contact.
23	SCK1	I	SIO1 clock
24	FLCE	O	FL chip enable.
25	RESET	I	CPU reset.
26	E2CS	O	No use
27	P11	O	No use
28	MECHAVR	O	Mechanism PCM output.
29	P13	O	No use
30	LED DM	O	No use
31	REMOCON	I	Remocon code input.
32	POS SEN	O	Mecahnism position sensor
33	MECHA FG	I	Mecahnism frequency generator(FG) signal input.
34	OPEN SW	I	Tray open switch sensor.
35	CLOSE SW	I	Tray close switch sensor.
36	12C SDA	O	IC400 control (I2C data). Scart drive/E2ROM
37	SB12	O	No use
38	12C SDC	O	I2C clock.
39,40	P33,34	O	No use
41	TM+	O	Tray motor positive port.
42	TRM-	O	Tray/rotary motor common port.
43	RM+	O	Rotary motor positive port.
44	RGBL	O	Y signal.
45	AOP	O	Video signal selector. AOP=Pure Audio Mode.
46	YCBH	O	H=scart color-difference signal. L=RGB.
47	TRAY OPEN	O	No use
48	TRAY CLOSE	O	No use
49	POWER	O	H=on. L=power off.
50	FL OFF	O	No use
51	WIDE1	O	H=squeeze. L=letter box. L=normal.
52	WIDE2	O	H=squeeze. H=letter box. L=normal.
53	C OFF	O	C-signal of YC-signal on/off. H=on. L=off.
54-56	P52-54	O	No use
57	CE	O	Power chip enable.
58-60	P61-63	O	No use
61-68	LED18-11	O	No use
69	POWER LED	O	Power LED(D9).
70	96kHz	O	96kHz LED(D7).
71	DISC2	O	Disc 2 LED(D2).
72	DISC4	O	Disc 4 LED(D4).
73	VSS LED	O	Vss LED(D6).
74	AOP LED	O	AOP LED(D15).
75	SHOWER	O	Shower LED(D14).
76	192kHz	O	192kHz LED(D8)
77	DISC1	O	Disc 1LED(D1)
78	DISC3	O	Disc 3 LED(D3).
79	DISC5	O	Disc 5 LED(D5).
80	POWER MUT	O	Power mute.

DV-4070-B/4900/DVF-R7030-B/R9030

CIRCUIT DESCRIPTION

D.R.I.V.E. II SIGNAL PATH



* SCART terminals(AV1,2) are available for European model only.

Media vs SWITCHES

Media	SW1	SW2	SW3
DVD-Audio (fs: 192kHz, 176.4kHz), VCD, CD-DA	A	off	on
Normal DVD, DTS-CD, 2-ch Speaker setting	B	on	off
Normal DVD, DTS-CD, More than 3-ch Speaker setting	A	on	off

Low Pass Filter	Media	SW4
110kHz	DVD-Audio (fs: 192kHz, 176.4kHz)	A
	Others	B
60kHz	All	B

ATT Ctrl

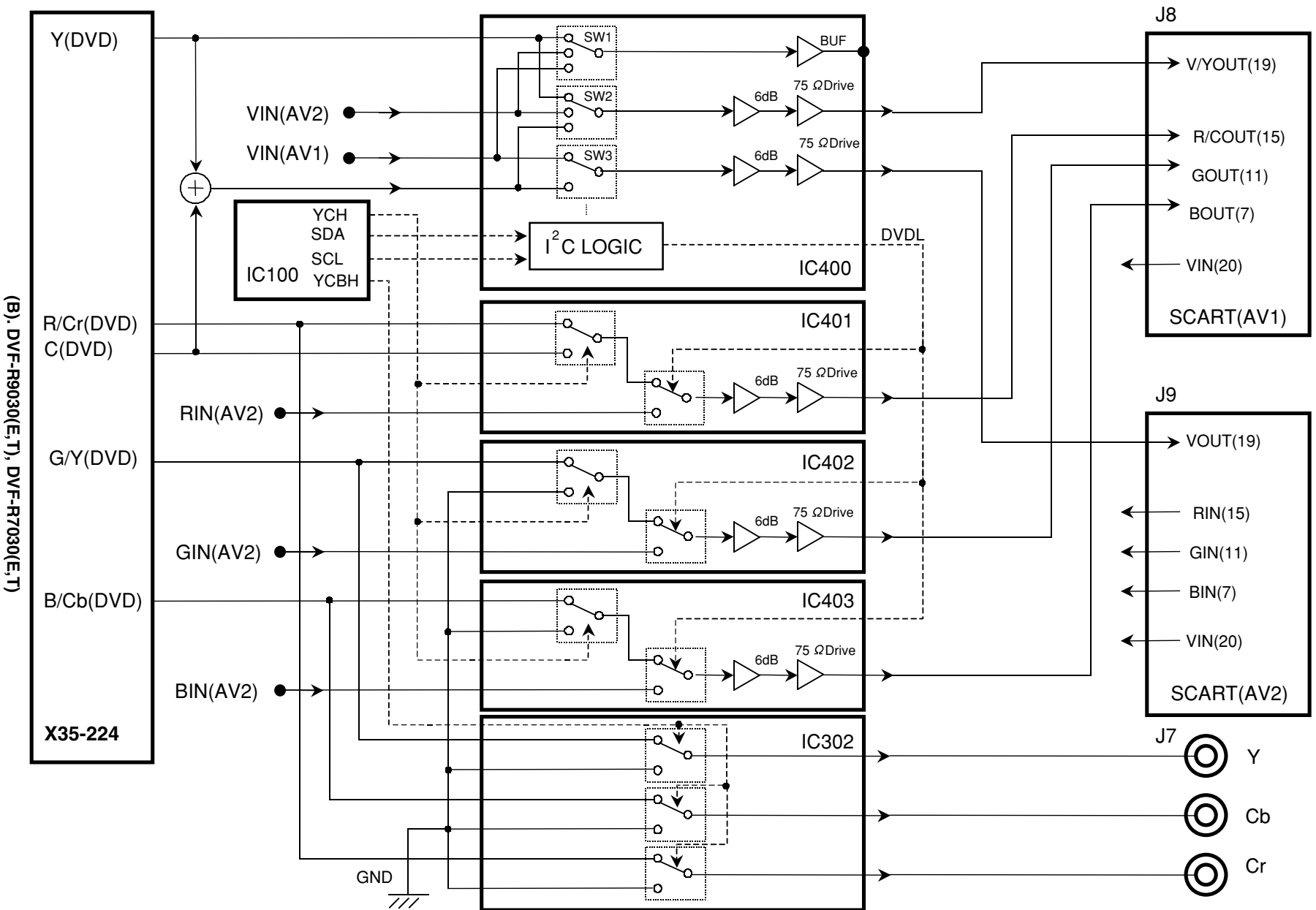
Display	ATT	AV Decoder
0dB(factory setting)	ON(-6dB)	0dB
±1-6dB	OFF(0dB)	0 ~ -5dB, -7 ~ -12dB
-6dB	*	-6dB

* More than 1-ch is changed level.

DV-4070-B/4900/DVF-R7030-B/R9030

CIRCUIT DESCRIPTION

SIGNAL PATH IN SCRT PCB



(B), DVF-R9030(E,T), DVF-R7030(E,T)

DV-4070-B/4900/DVF-R7030-B/R9030

CIRCUIT DESCRIPTION

RELATION OF IN/OUT ON VIDEO SIGNAL

Condition	In-SIGNAL	OUT		
		AV1(J8)	AV2(J9)	RGB(J7)
Composite	Y,C(IC600:X35)	#19(V/Y out)	#19(V out)	-
S-Video	Y,C(IC600:X35)	#19(V/Y out), #15(RC out)	-	-
RGB	RGB(IC600:X35)	#15(R/C out), #11(G out), #7(B out), #19(V/Y out)	#19(V out)	-
Standby	<VA2> #20(V in), #15(R in), #11(G in), #7(B in)	#15(R/C out), #11(G out), #7(B out), #19(V/Y out)	IN-SIGNAL	-

RELATION OF IN/OUT ON AUDIO SIGNAL

		OUT		
Condition	In-SIGNAL	AV1(J8)	AV2(J9)	RGB(J7)
Power on	DVD MIX-OUT	#1(A[B]out), #3(A[A]out)	#1(A[B]out), #3(A[A]out)	-
Standby	DVD MIX-OUT		#2(A[B]in), #6(A[A]in)	-
			#1(A[B]out), #3(A[A]out)	-

Condition	BLK(#16, AV1)
RGB	5V(no load)
Other	0V
Standby	#16 of AV2:through

Condition	FVNC SW (#8,AV1)
16:9 TV PLAY	6V
Other	11V
Standby	#16 of AV2:through

DV-4070-B/4900/DVF-R7030-B/R9030

CIRCUIT DESCRIPTION

TEST MODE

This model has 3 kind of test modes; unit inspection, factory test mode, measurement. In this manual, items of repair, test mode and inspection are available.

Setting

Turn power on with pressing "PAUSE" key. Display shows "TEST".

Turn power on with pressing "DISC1" key. Display shows "INSPECTION".

Cancellation of Setting

Turn power off.

Key vs Function

Keys which described in the following table work as it is.

TEST MODE

Key	Mode	Display	Operation
PLAY	-	Playback time	Disc Playback
SKIP-UP	STOP	All segments light → Niagara mode→ Playback time→	Display shows cyclically by pressing key
SKIP-UP	PLAYBACK	Playback time	Playback next chapter/track #/program #
SKIP-DOWN	PLAYBACK	Playback time	Playback before chapter/track #/program #
STOP	-	Time	Stop to operate and return to first step of this test mode.
PAUSE	Playback DAD-VIDEO	Track #	Playback program-playback automatically. Order of playback: T# 1-1→ 4-1→ 4-2→ 4-3→ 4-4→ 3-6. UP/DOWN keys acceptable.
DISC1	Playback CD	Track #	Playback program-playback automatically. Order of playback: T# 2→ 3→ 7→ 4→16. UP/DOWN keys acceptable.
DISC2	PLAYBACK	MUTE ON → MUTE OFF	Mute works cyclically on or off.
DISC3	-	LPF 60k →LPF 110k	Speaker protection works cyclically on or off.(Cut-off freq. Change 60k or 110k)
DISC4	-	WIDE1→WIDE2 └NORMAL┐	WIDE mode changes cyclically WIDE1 or WIDE2.
DISC5	-	SCART RGB→SCART YC→SCART Through	Video signal of SCART changes cyclically RGB(DVD)→Y/C(DVD)→Through(AV1↔AV2)
DISC SKIP	-	OK or IC***	Self check mode(refer to Servo Error Code)
		IC 100 ERROR	ADSC Defective.
		IC 2 ERROR	FEP Defective.
		IC 300 ERROR	ODC Defective.
		IC 400 ERROR	AV DEC Defective.
STOP+DISC1	STOP		Rotary turns clockwise.
STOP+DISC2	STOP		Rotary turns counter clockwise.
STOP+DISC3	STOP		Tray opens
STOP+DISC4	STOP		Tray closes

DV-4070-B/4900/DVF-R7030-B/R9030

CIRCUIT DESCRIPTION

INSPECTION

Key	Mode	Display	Operation
PLAY	-	Playback time	Disc Playback
SKIP-UP	STOP	All segments light → Niagara mode→ Playback time→	Display shows cyclically by pressing key
SKIP-UP	PLAYBACK	Playback time	Playback next chapter/track #/program #
SKIP-DOWN	PLAYBACK	Playback time	Playback before chapter/track #/program #
STOP	-	INSPECTION	Stop to operate and return to first step of this inspection mode.
STOP	STOP	Model/destination/re gion code	Stop to playback and return to first step of this test mode.
DISC1	PLAYBACK	Jitter ***%	Shows jitter value(binary value vs time deviation of PLL-clock)
DISC2	-	CPPM KEY ID	15 figures.
DISC4	-	WIDE1→WIDE2 └NORMAL┐	WIDE mode changes cyclically WIDE1 or WIDE2.
DISC5	-	SCART RGB→SCART YC→SCART Through	Video signal of SCART changes cyclically RGB(DVD)→Y/C(DVD)→Through(AV1↔AV2)

ERROR CODE OF MECHANISM

DISPLAY	CONTENTS	REASON	CANCELING KEY	REMARKS
E1001	No contact with main processor	Main processor doesn't work Sio-0 bus damaged	No	
E1101	Poor disc chucking	No right position of rotary	No	
		Foreign matter inserted		
	No cancellation of chucking	No right position of rotary	No	
		Foreign matter inserted		
E1102	No turn of rotary	Foreign matter inserted	OPEN/CLOSE or DISC SKIP	
E0101	No open	Mechanism jam	CLOSE	Initialization
No show	No Close	Mechanism jam		Initialization
E0102	Playing Disc inside	Disc full load	NO	Remove the one disc after turn power off
		Not stop to turn the proper position		
E0103	No detection of disc position	Load disc at no proper position	OPEN/CLOSE or DISC SKIP	Check the sensor of discs on the rotary.
		Foreign matter inserted at sensor		
No show	Waiting	Turn power off in open/close mode.	CLOSE	Press the CLOSE key after turn the power on again.

CIRCUIT DESCRIPTION

ERROR CODE OF CIRCUIT BY SELF CHECK MODE (TEST MODE)

DEFINITION	CONTENTS	CODE	BLOCK	TIMING
<i>ODC(Optical Device Control)</i>				
MOD_NOT_CRCOK	No CRCOK signal	0x4303	(ADSC,ODC,disc ,pickup)	Read address error at lead in or focus jump.
MAS_ECC_ERR	Abnormal ODC	0x4301	ODC	No emission OK on disc and host in 5 secs.
LAYER_CMP_ERR	Abnormal LAYER in seek mode	-	(ADSC,ODC,disc ,pickup)	
OUT_PB_AREA_NG	OUT of PB AREA	-		
DATA_TR_PLAY_NG	DATA Track Play	-		
SEEK_NG_CHGNV	No data caused seek error	-		
UNCORRECT_ERR	No control data by demodulator error	-		
INVALID_CMD_ERR	Out of sector ID	0xD601	ODC,disc	Over data from disc(DVD : 0xFFFF)(VCD : 00:02:00 less)(CD : 0xFFFF)
UNCORRECT_LEADIN	No lead-in data by demodulator error	0xD602		Time over in lead-in.
UNCORRECT_KEYDET	No lead-in data by demodulator error	0xD603		

DEFINITION	CONTENTS	CODE	BLOCK	TIMING
<i>SERVO</i>				
TRAY_LOADING_ERR	Tray Loading Error.	0x4000	ADSC, TRAY Mechanism, Motor LSI	DCM_TRAYCTL_T(time out 5secs)
FOCUS_SVERR	Focus Servo Error.	0x4100	ADSC, pickup & actuator, Driver LSI	DCM_FCON_T(time out 5secs), Lock NG, NG of seek.
SPINDLE_SVERR	Spindle Servo Error.	0x4101	ADSC, Driver LSI, disc Motor	DCM_DMON_T(time out 10 secs),Time out of checking stop,Time out of start to turn.
DSC_DM_ERR	DSC Disc Motor Error. Abnormal FG-period in DVD, Abnormal turn of disc motor,	0x4102	ADSC, Driver LSI, disc Motor	DCM_DMOF_T(time out 10secs), DCM_DMMODE_T(time out 100ms) Abnormal turn of disc motor.,
CDC_CLV_ERR	6626 CLVS Failure. Abnormal FG-period in CD	0x4103	ADSC, Driver LSI, disc Motor	DCM_DMOF_T(time out 10secs) Setting abnormal CLV
TRAVERSE_ERR	Traverse Motor Error.	0x4104	ADSC, Driver LSI, feed Motor	DCM_INNER_T(time out 5secs)
TRACK_SVERR	Tracking Servo Error	0x4105	ADSC, pickup & actuator, Driver LSI	DCM_TRON_T(time out 1sec) Command error,Focus jump Lock NG (ReSartServo) NG of
SEEK_TIMEOUT_ERR	Seek Time Out Error	0x4106	ADSC, pickup & actuator, Driver LSI	Over 200 seek times
DSC_ERROR	DSC Error (status data error)	0x4200	ADSC	Command error
DSC_NOTREADY	DSC Not Ready Error	0x4201	ADSC	ADSC REDY time out
DSC_TIM_ERR	DSC TimeOut Error.	0x4202	ADSC	Over of CLV OK Over of command end
DSC_COM_ERR	DSC Communication Failure.	0x4203	ADSC	No use
DSC_ATN_ERR	DSC Attention Error.	0x4205	ADSC	Error of CD-trick play and CD/DVD seek. FC jump in DVD-play.
INVALID_MDTYP	Out of Media	0x4300	ADSC	No check of media, Error after servo retry. Abnormal disc.
DONOT_QREAD_ERR	6626 QCODE do not Read Error.	0x4302	ADSC	Read error in Cue or Rev play of CD
DSC_ESCAPE	DSC Command Escape	-	ADSC	Stop servo operation after setting the ESC flug in mode register of ADSC.
<i>FEP</i>				
FEP_IC_ERR	Adjustment error on data slice offset	0x4204	ADSC ,FEP	jitter and data slice offset adjustment error

DV-4070-B/4900/DVF-R7030-B/R9030

CIRCUIT DESCRIPTION

DEFINITION	CONTENTS	CODE	BLOCK	TIMING
DISC				
DISERR_UDF	UDF Bridge NG	0x2100	Disc format	1. No CD-ROM Volume Descriptor Set, No Primary Volume Descriptor
				2. No Beginning Extended Area Descriptor
				3. No NSR Descriptor of "NSR02"
				4. Length error of Main Volume Descriptor Sequence
				5. Directry of length error on VIDEO_TS/AUDIO_TS after root
DISERR_TT_SRP_NO	TT_SRP=0	0x2111	Disc format	
ISERR_TT_SRP_OVER	Value >TT_SRP	0x2112	Disc code	
DISERR_TT_SRP_MISS	SRP is not meet with VTSN or VTS TTN	0x2113		
DISERR_TT_SRP_PTT_OVER	Value >TT_SRP.PTT_Ns	0x2114		
DISERR_TTU_SRP_NO	TTU_SRP=0	0x2120		
DISERR_TTU_SRP_OVER	Value >TTU_SRP	0x2121	Disc code	
DISERR_PGCI_SRP_NO	PGCI_SRP=0	0x2131	Disc format	
DISERR_PGCI_SRP_OVER	Value>PGCI_SRP	0x2132	Disc code	
DISERR_TMAP_SRP_OVER	Value>TMAP_SRP	0x2141		
DISERR_TMAP_SA_NO	TMAP_SA=0	0x2142		
DISERR_TMAP_EN_NO	MAP_EN=0	0x2143		
DISERR_PGC_PGMAP_NO	C_POSIT is OK, No PGMAP in PGC	0x2150	Disc format	
DISERR_PGC_PG_NO	C_POSIT is OK, PG=0 in PGC.	0x2151	Disc code	
DISERR_PGC_PG_OVER	Value >PG in PGC	0x2152		
DISERR_PGC_C_PBIT_NO	C_POSIT is OK, No C_PBIT in PGC	0x2153	Disc format	
DISERR_PGC_C_NO	C_POSITis OK, Cell=0 in PGC	0x2154		
DISERR_PGC_CN_NO	Cell=0	0x2155		
DISERR_PGC_C_OVER	Value >Cell in PGC	0x2156	Disc code	
DISERR_PGC_BLK_NO	Block Cell only	0x2157	Disc format	
DISERR_SEARCH_CN_NO	No Cell# in search.	0x2160		

DV-4070-B/4900/DVF-R7030-B/R9030

ADJUSTMENT

No.	ITEM	INPUT SETTING	OUTPUT SETTING	ALIGNMENT POINT	ALIGNMENT FOR	FIG.
1	Y,Cb,Cr LEVEL	100% COLOR BAR DISC	Connect the oscilloscope to Y output with 75-ohms resistor	VR601	Y-signal = 1000mV $\pm$ 30mV	FIG.1
2	Y LEVEL	100% COLOR BAR DISC	Connect the oscilloscope to COMPOSIT output with 75-ohms resistor	VR600	COMPOSIT-signal = 1000mV $\pm$ 30mV	FIG.2
<i>You need the step 1 and 2 before next step 3</i>						
3	CHROM LEVEL	100% COLOR BAR DISC	Connect the oscilloscope to COMPOSIT output with 75-ohms resistor	VR602	Chrom-signal = 285mV $\pm$ 14mV	FIG.3

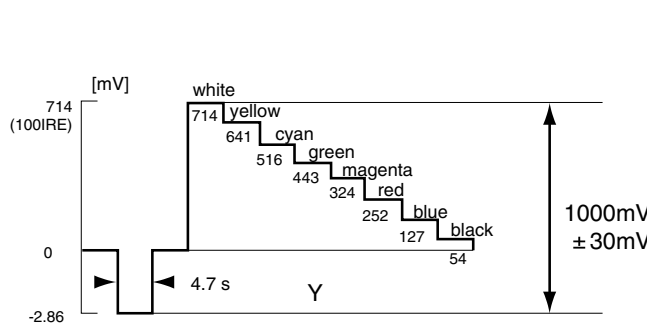


Fig. 1

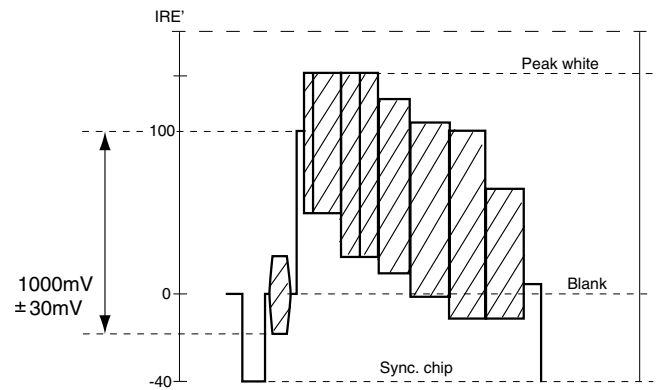


Fig. 2

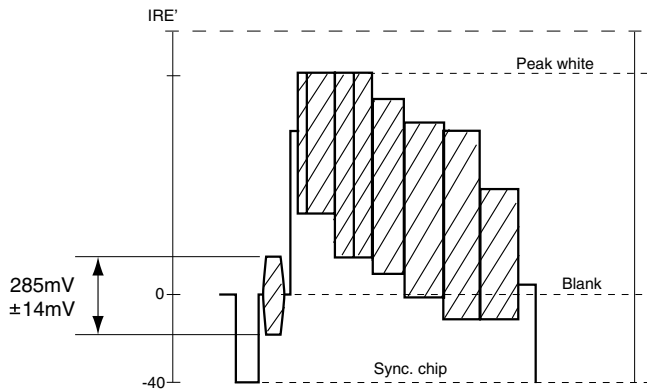


Fig. 3

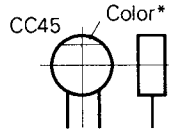
DV-4070-B/4900/DVF-R7030-B/R9030

PARTS DESCRIPTIONS

CAPACITORS

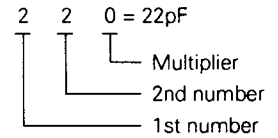
CC 45 TH 1H 220 J
1 2 3 4 5 6

- 1 = Type ... ceramic, electrolytic, etc. 4 = Voltage rating
2 = Shape ... round, square, ect. 5 = Value
3 = Temp. coefficient 6 = Tolerance



Capacitor value

- 010 = 1pF
100 = 10pF
101 = 100pF
102 = 1000pF = 0.001μF
103 = 0.01μF



Temperature coefficient

1st Word	C	L	P	R	S	T	U
Color*	Black	Red	Orange	Yellow	Green	Blue	Violet
ppm/°C	0	-80	-150	-220	-330	-470	-750

2nd Word	G	H	J	K	L
ppm/°C	±30	±60	±120	±250	±500

Example : CC45TH = -470 ± 60ppm/°C

Tolerance (More than 10pF)

Code	C	D	G	J	K	M	X	Z	P	No code
(%)	±0.25	±0.5	±2	±5	±10	±20	+40 -20	+80 -20	+100 -0	More than 10μF -10 ~ +50 Less than 4.7μF -10 ~ +75

(Less than 10pF)

Code	B	C	D	F	G
(pF)	±0.1	±0.25	±0.5	±1	±2

Voltage rating

2nd word	A	B	C	D	E	F	G	H	J	K	V
1st word											
0	1.0	1.25	1.6	2.0	2.5	3.15	4.0	5.0	6.3	8.0	-
1	10	12.5	16	20	25	31.5	40	50	63	80	35
2	100	125	160	200	250	315	400	500	630	800	-
3	1000	1250	1600	2000	2500	3150	4000	5000	6300	8000	-

Chip capacitors

(EX) C C 7 3 F S L 1 H 0 0 0 J
1 2 3 4 5 6 7
(Chip) (CH, RH, UJ, SL)

(EX) C K 7 3 F F 1 H 0 0 0 Z
1 2 3 4 5 6 7
(Chip) (B, F)

Dimension (Chip capacitors)

Dimension code	L	W	T
Empty	5.6 ± 0.5	5.0 ± 0.5	Less than 2.0
A	4.5 ± 0.5	3.2 ± 0.4	Less than 2.0
B	4.5 ± 0.5	2.0 ± 0.3	Less than 2.0
C	4.5 ± 0.5	1.25 ± 0.2	Less than 1.25
D	3.2 ± 0.4	2.5 ± 0.3	Less than 1.5
E	3.2 ± 0.2	1.6 ± 0.2	Less than 1.25
F	2.0 ± 0.3	1.25 ± 0.2	Less than 1.25
G	1.6 ± 0.2	0.8 ± 0.2	Less than 1.0

RESISTORS

Chip resistor (Carbon)

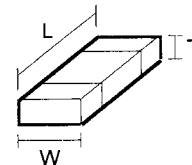
(EX) R K 7 3 E B 2 B 0 0 0 J
1 2 3 4 5 6 7
(Chip) (B, F)

Carbon resistor (Normal type)

(EX) R D 1 4 B B 2 C 0 0 0 J
1 2 3 4 5 6 7

- 1 = Type 5 = Rating wattage
2 = Shape 6 = Value
3 = Dimension 7 = Tolerance
4 = Temp. coefficient

Dimension



Dimension (Chip resistor)

Dimension code	L	W	T
E	3.2 ± 0.2	1.6 ± 0.2	1.0
F	2.0 ± 0.3	1.25 ± 0.2	1.0
G	1.6 ± 0.2	0.8 ± 0.2	0.5 ± 0.1

Rating wattage

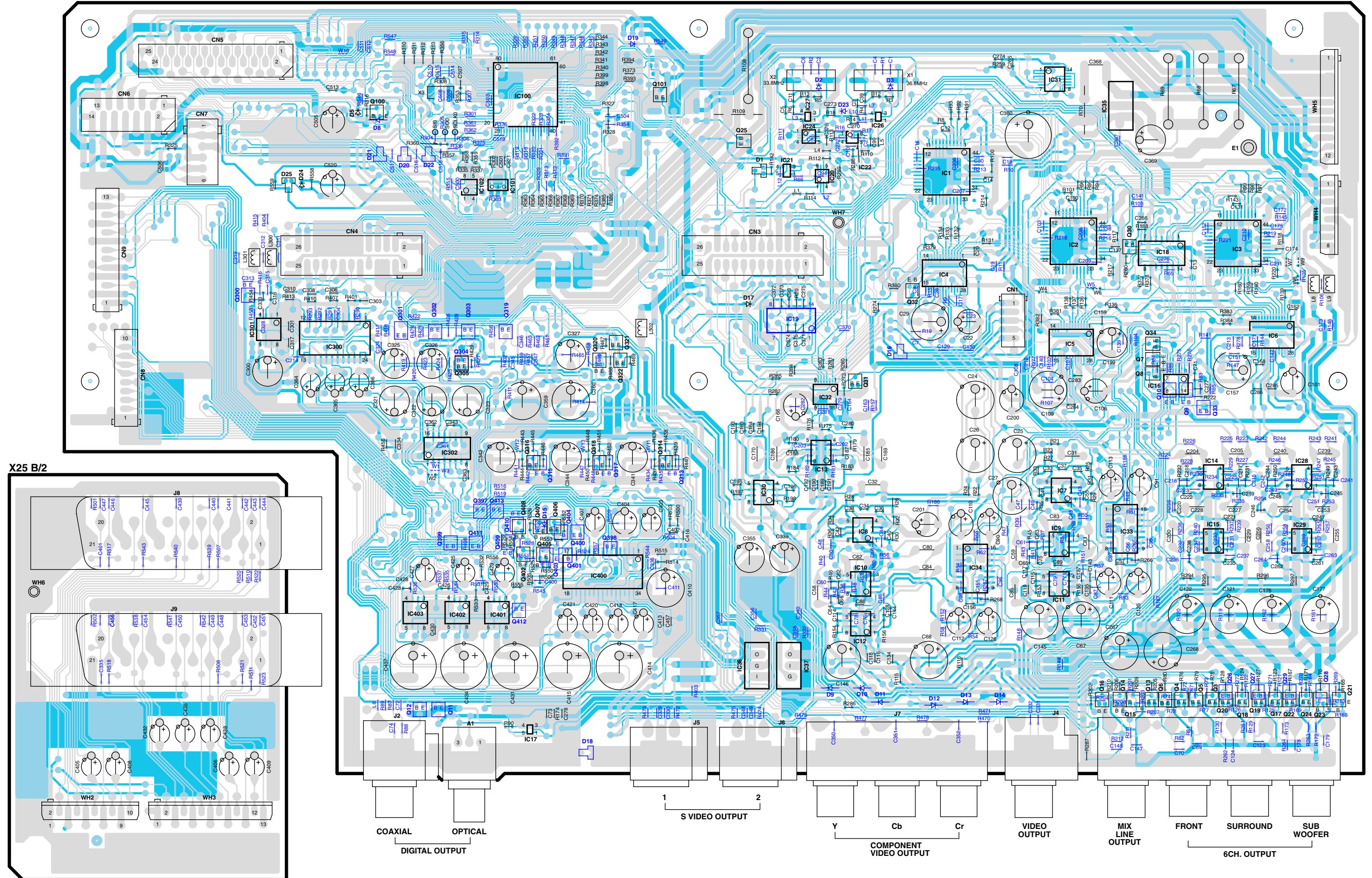
Code	Wattage	Code	Wattage	Code	Wattage
1J	1/16W	2C	1/6W	3A	1W
2A	1/10W	2E	1/4W	3D	2W
2B	1/8W	2H	1/2W		

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The image displays a complex PCB layout for a portable cassette player, divided into a main board and four sub-modules. The main board features a central IC1 (tuner/amplifier) with numerous passive components (resistors R1-R42, capacitors C1-C25, inductors L1-L4) and a cassette deck section with five disc components (D1-D5) and eleven switch components (S1-S11). A speaker (A1) is connected to the main board. The sub-modules are labeled X14 B/4, X14 C/4, X14 D/4, and X14 E/4. X14 B/4 includes PHONES and PHONES LEVEL sections. X14 C/4 includes a WH2 component and a D14 SHOWER component. X14 D/4 includes a WH1 component, a D15 PURE component, and a D9 POWER component. X14 E/4 includes a CN1 connector. The layout is highly detailed, showing component footprints, component values, and the intricate routing of the PCB traces.

PC BOARD(Component side view)

X25-6370-10 A/2 (J70-1424-11)



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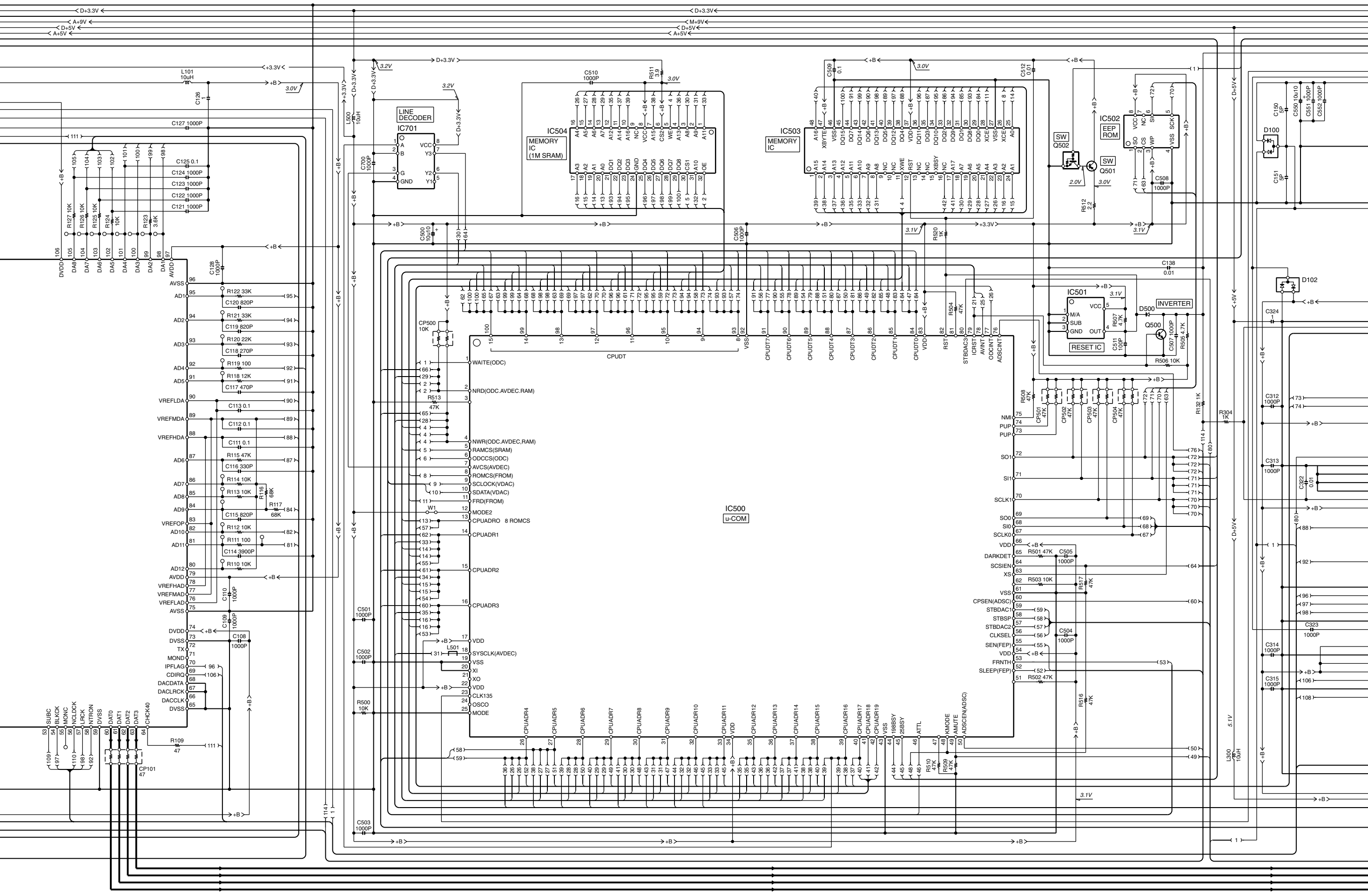
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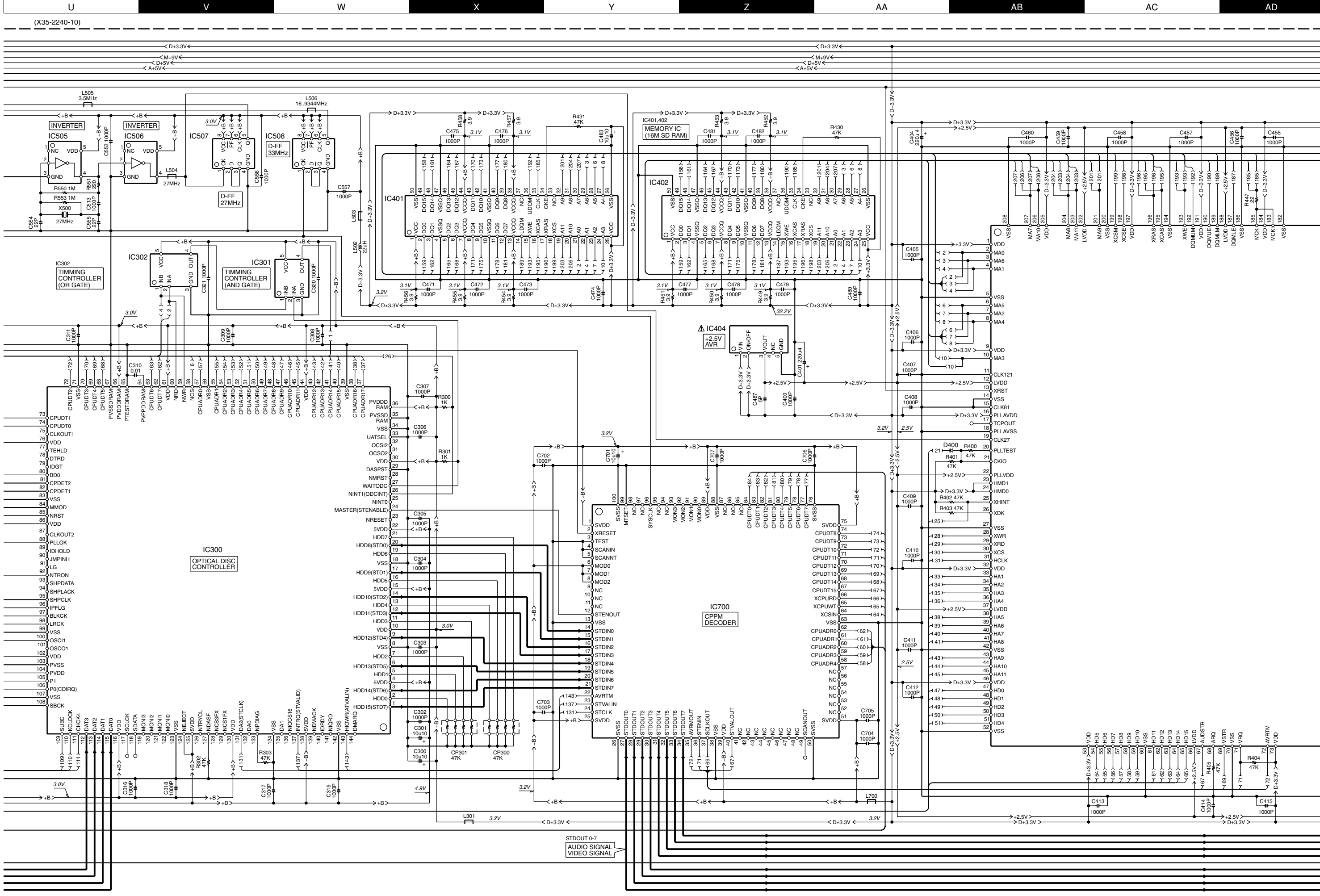
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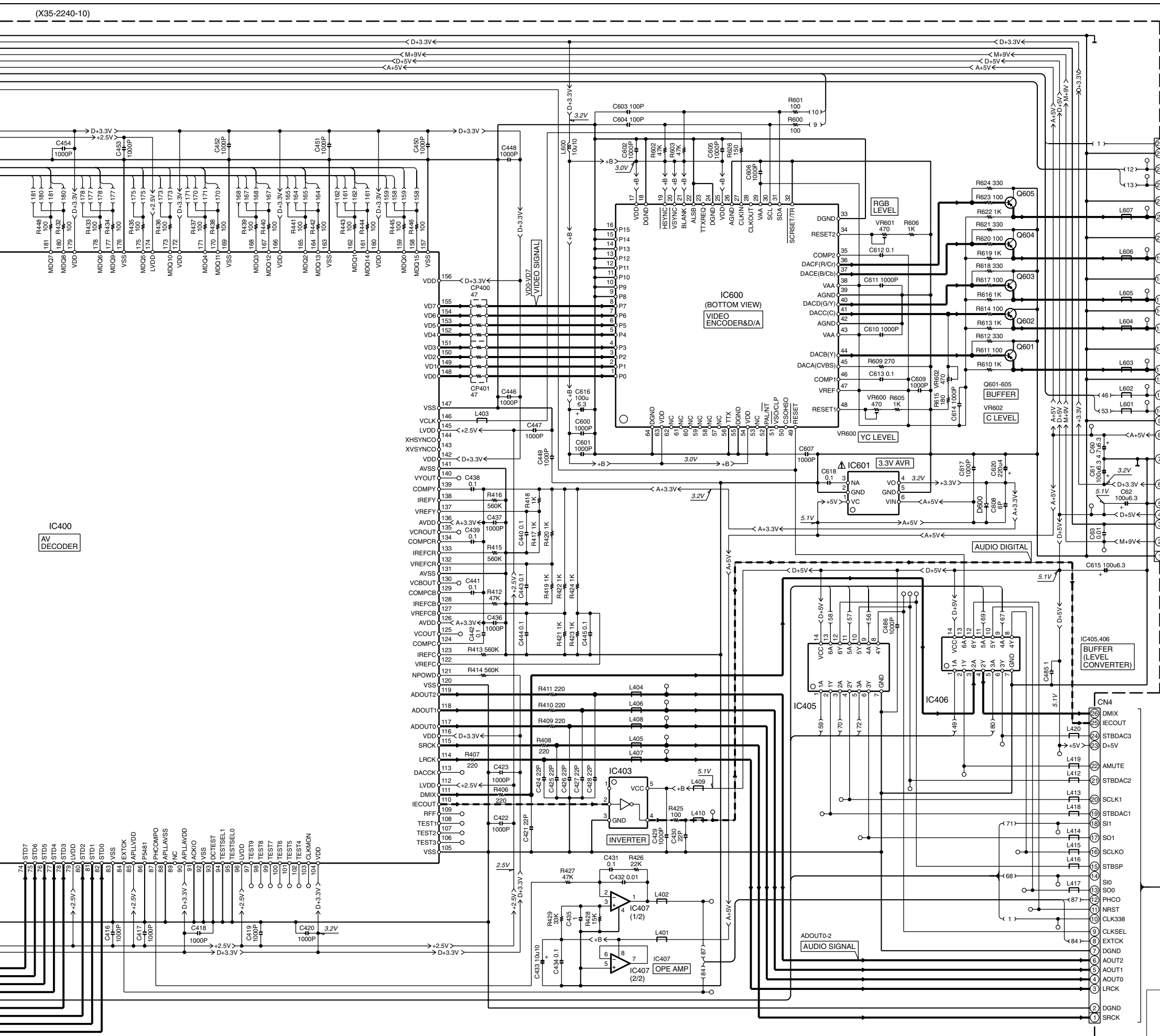
3

4





(X35-2240-10)



X00-CN0
1/2
A

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.

X25-CN4
2/3
C

- 2SA954
- 2SC2785
- 2SC1740S
- 2SA1576A
2SC2714
- 2SC4081
- DTA124EUA
DTA143TUA
DTC124EUA
- NJM4580ED

- DAN202U
- DAP202U
DA204U

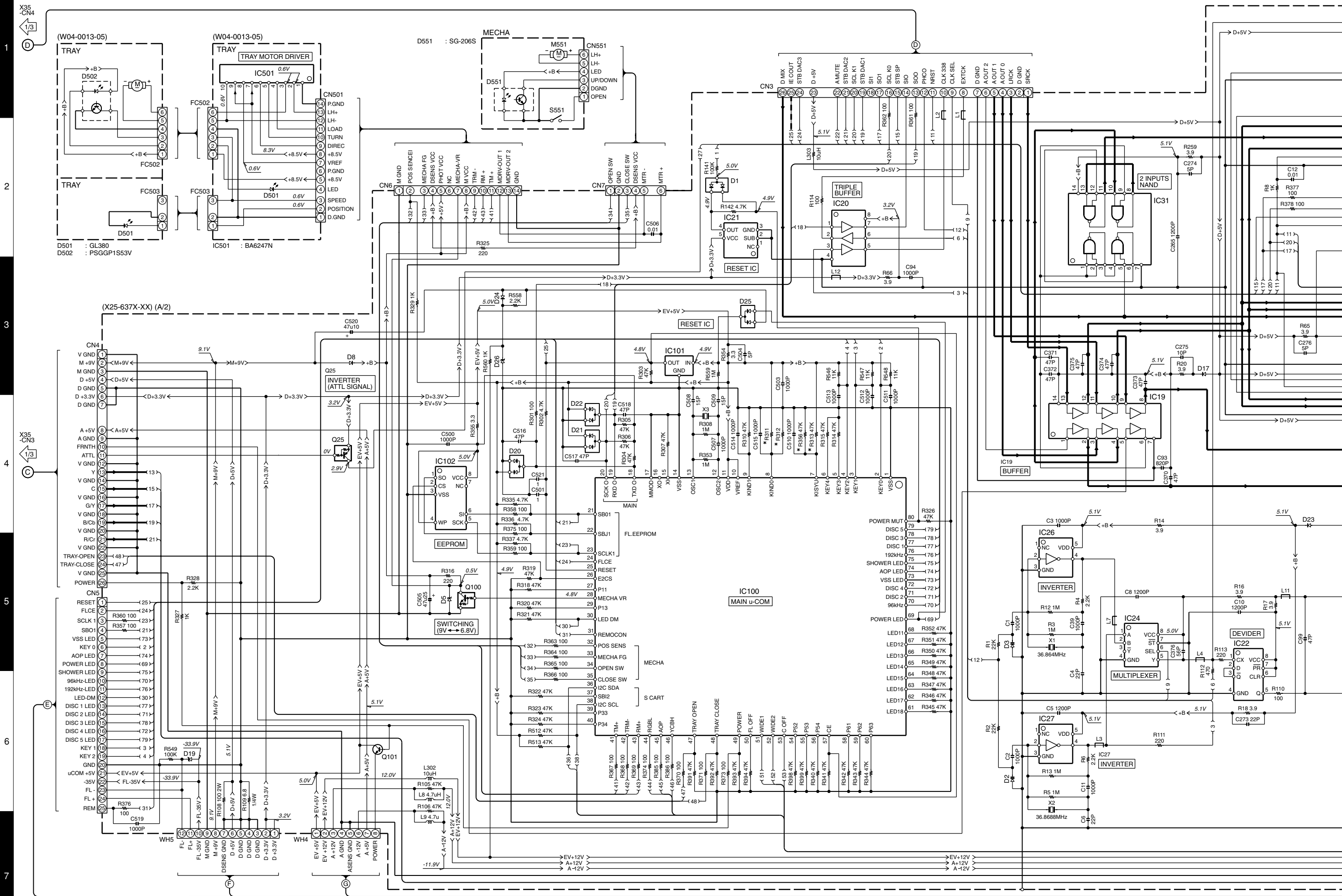
- TC9214AF
- TC74HCT7007AF

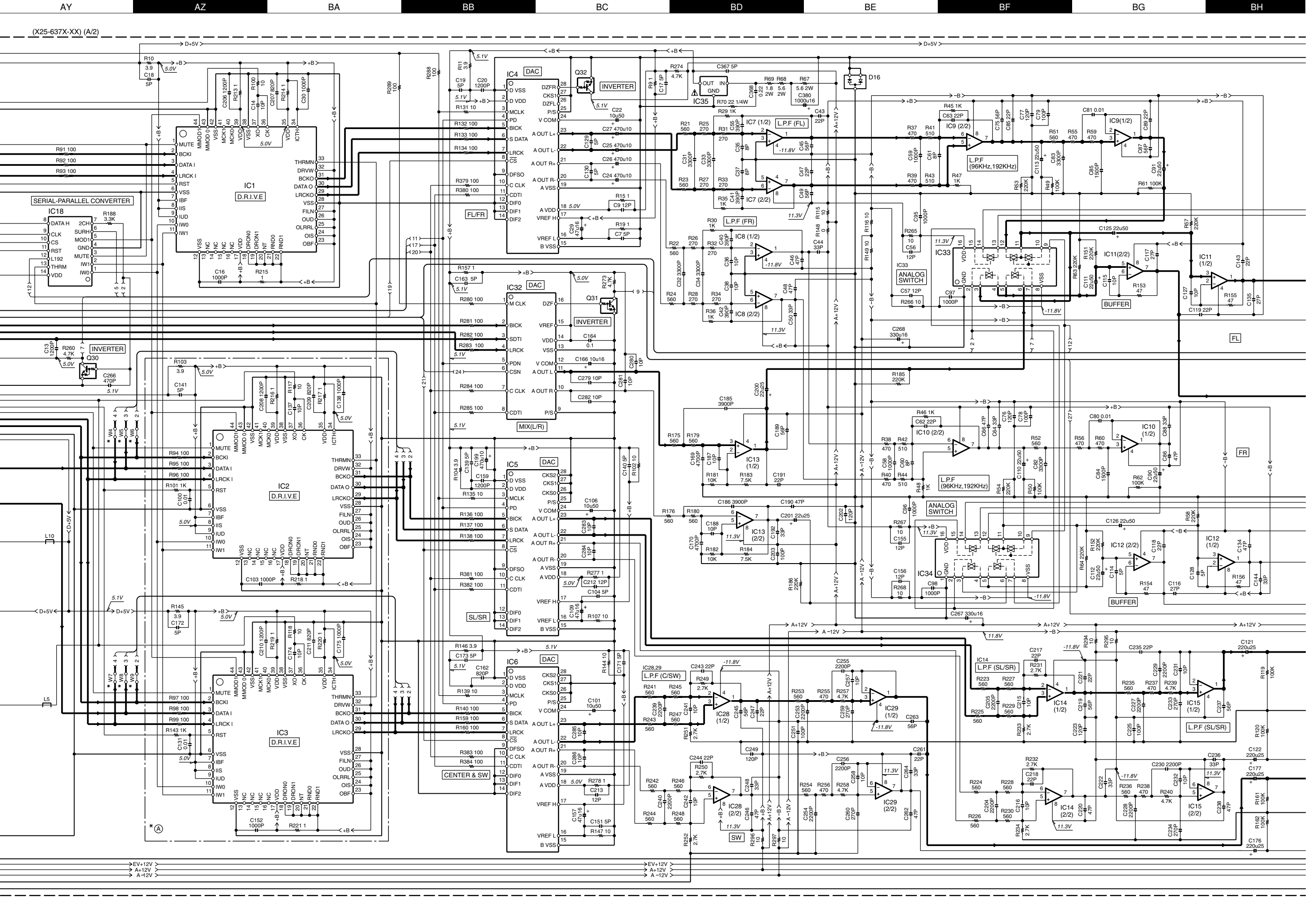
- NJU3711M
TC74VHC08FT
- TC7SH08FU

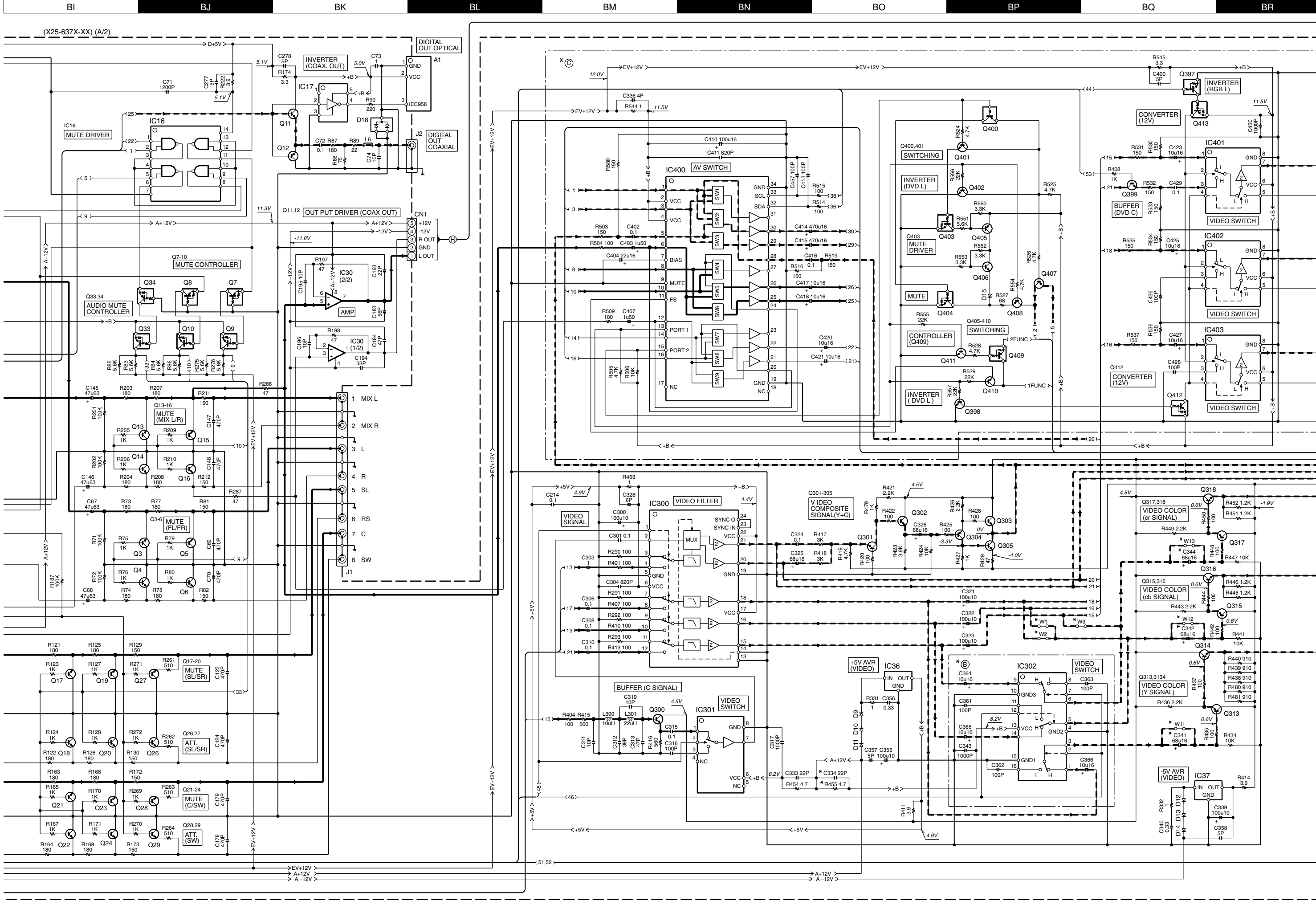
- IC1 : TK11120S
- IC2 : AN8708FHO
- IC100 : MN67705EA
- IC201 : AN8785SB
- IC202 : AN8480NSB
- IC300 : MN103007B
- IC301 : TC7SH32FU
- IC302 : TC7SH08FU
- IC400 : MN677521HB
- IC401,402 : EM636165TS-8 or HY57V16160DTC
- IC403 : TC7SET04FU
- IC404 : PQ2TZ15U
- IC405,406 : TC74HCT7007AF
- IC407 : NJM2115V
- IC500 : MN102LP25G or MN102L62GA1
- IC501 : PST595JNR
- IC502 : X25057M-2.7
- IC503 : AT49LV8192A90T
- IC504 : KM68U1000E10 or BS62LV1024ST70
- IC505,506 : TC7SHU04FU
- IC507,508 : TC7WH74FU
- IC600 : ADV7190
- IC601 : PQ1R33
- IC700 : MN5C027D4H
- IC701 : TC3W02FU
- Q1 : 2SB1115A
- Q2,4,100,200,201,502 : DTC124EUA
- Q3,202 : DTC124EUA
- Q500 : 2SC4081(R,S)
- Q501-605 : 2SA1576A(R,S)
- D100-102 : DA204U
- D400,500,600 : MA111

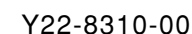
- DIGITAL LINE
- SIGNAL LINE
- GND LINE
- +B LINE
- B LINE
- DV-4900/4070-B (1/3)
- DVF-R9030/R7030 (1/3)

DV-4070-B/4900/DVF-R7030-B/R9030

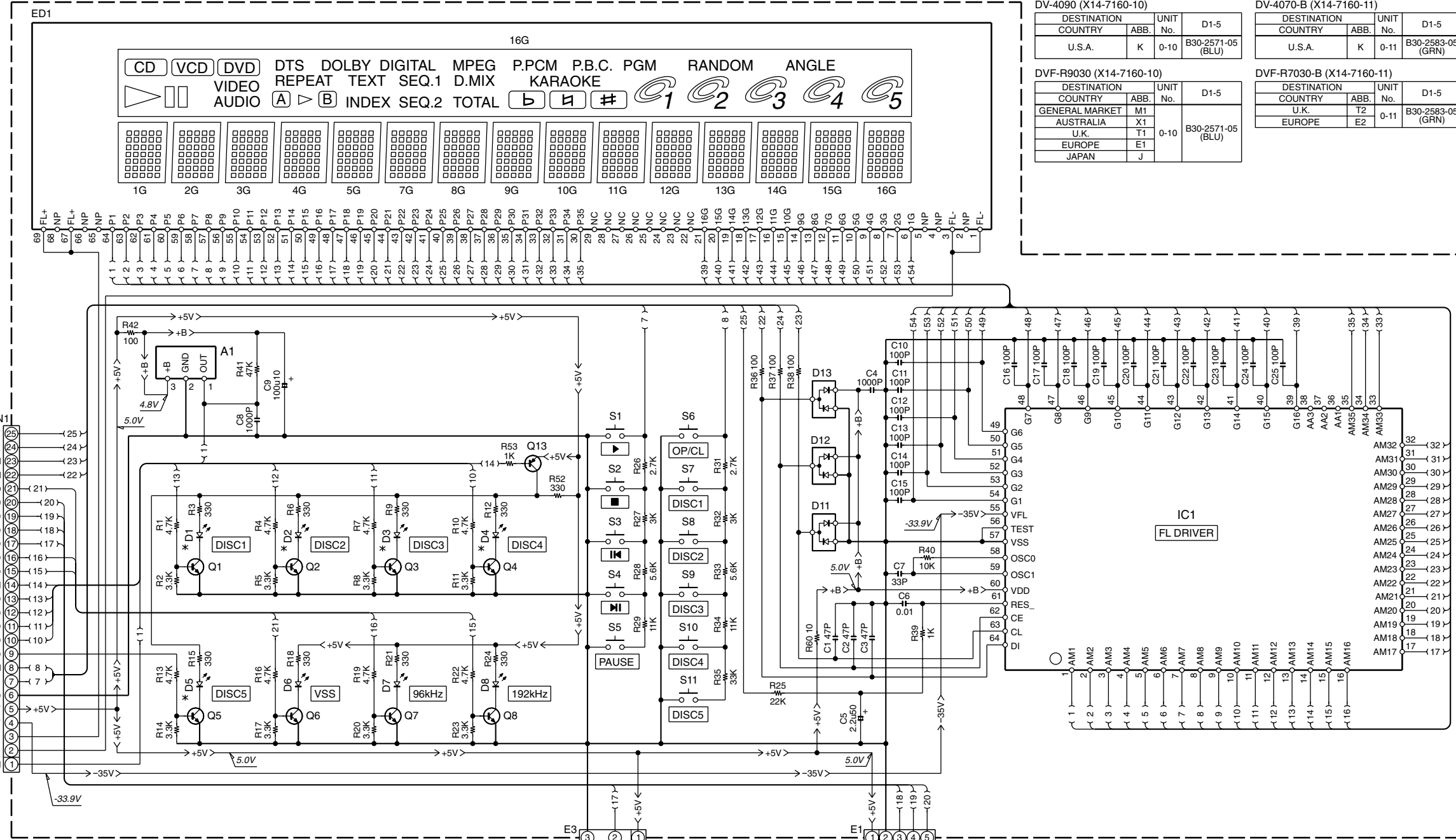








(X14-7160-XX) (A/4)



DV-4090 (X14-7160-10)			
DESTINATION	ABB.	UNIT No.	D1-5
U.S.A.	K	0-10	B30-2571-05 (BLU)

DV-4070-B (X14-7160-11)			
DESTINATION	ABB.	UNIT No.	D1-5
U.S.A.	K	0-11	B30-2583-05 (GRN)

DVF-R9030 (X14-7160-10)			
DESTINATION	ABB.	UNIT No.	D1-5
GENERAL MARKET	M1	0-10	B30-2571-05 (BLU)
AUSTRALIA	X1		
U.K.	T1		
EUROPE	E1		
JAPAN	J		

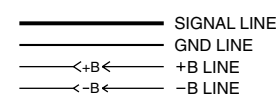
DVF-R7030-B (X14-7160-11)			
DESTINATION	ABB.	UNIT No.	D1-5
U.K.	T2	0-11	B30-2583-05 (GRN)
EUROPE	E2		

1-1	2-1	3-1	4-1	5-1
1-2	2-2	3-2	4-2	5-2
1-3	2-3	3-3	4-3	5-3
1-4	2-4	3-4	4-4	5-4
1-5	2-5	3-5	4-5	5-5
1-6	2-6	3-6	4-6	5-6
1-7	2-7	3-7	4-7	5-7

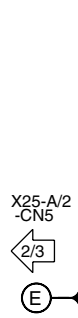
(1G-15G)

ANODE CONNECTION

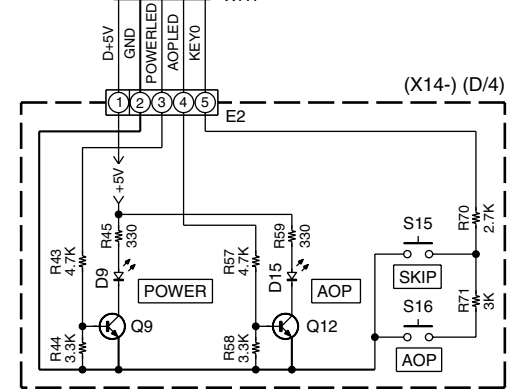
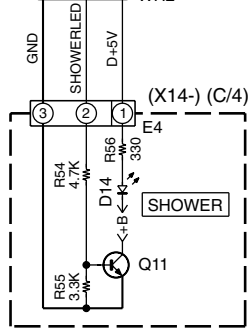
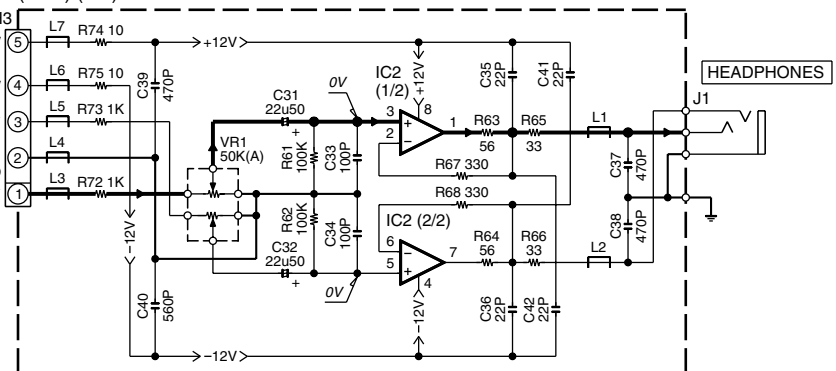
	1G-15G	16G
P1	1-1	▶
P2	2-1	CD
P3	3-1	▶▶
P4	4-1	VCD
P5	5-1	AUDIO
P6	1-2	VIDEO
P7	2-2	DVD
P8	3-2	A▶
P9	4-2	B
P10	5-2	REPEAT
P11	1-3	DTS
P12	2-3	INDEX
P13	3-3	TEXT
P14	4-3	DOLBY DIGITAL
P15	5-3	SEQ.2
P16	1-4	SEQ.1
P17	2-4	TOTAL
P18	3-4	D.MIX
P19	4-4	MPEG
P20	5-4	b
P21	1-5	h
P22	2-5	#
P23	3-5	KARAOKE
P24	4-5	P.
P25	5-5	PCM
P26	1-6	P.B.C.
P27	2-6	PGM
P28	3-6	(1)
P29	4-6	(2)
P30	5-6	(3)
P31	1-7	(4)
P32	2-7	(5)
P33	3-7	1 2 3 4 5
P34	4-7	RANDOM
P35	5-7	ANGLE



DV-4900 (K) (3/3)



(X14-) (B/4)

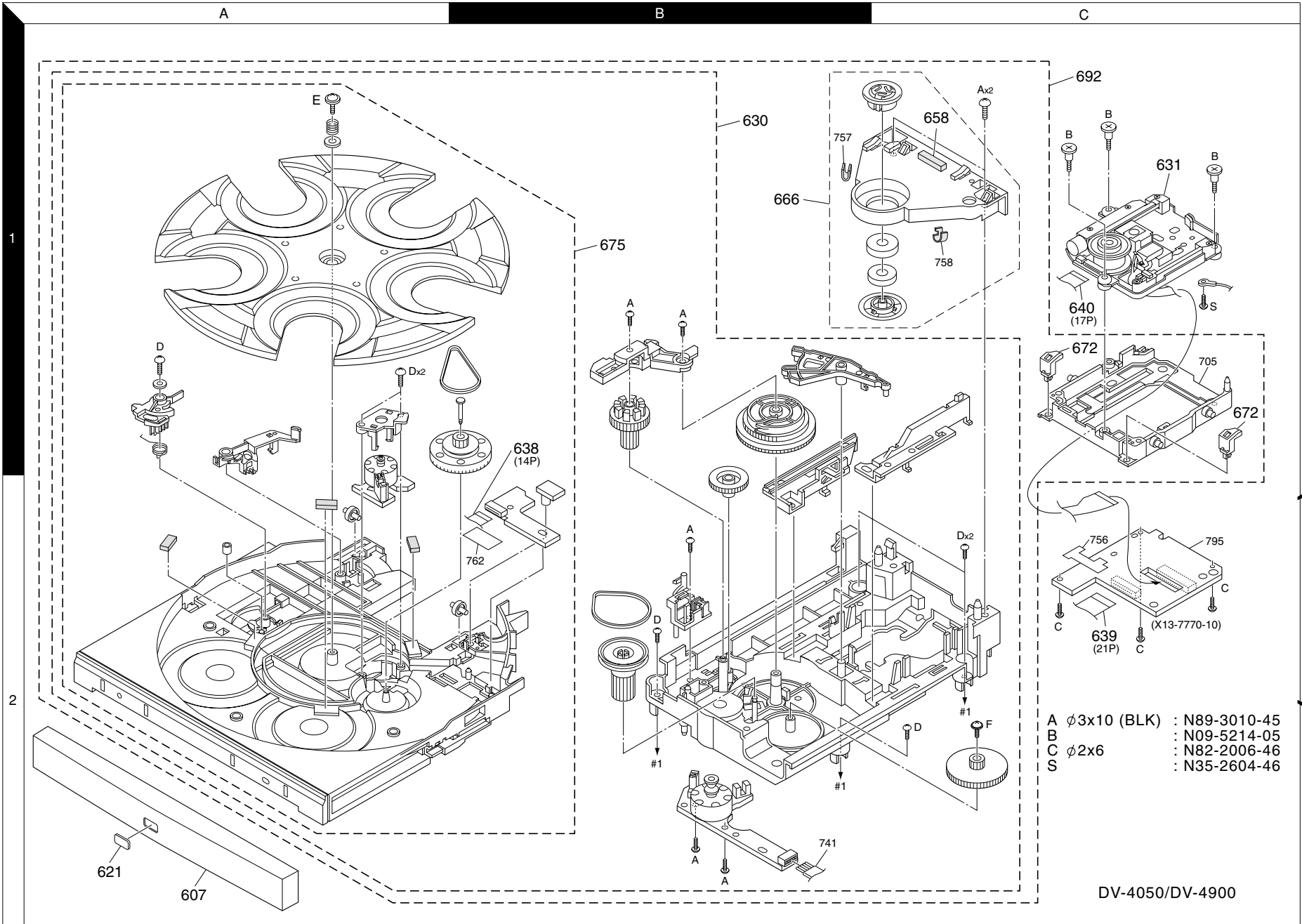


- IC1 : LC75712E
- IC2 : NJM4580ED
- Q1-9,11,12 : 2SC1740S(Q,R) or 2SC2785(F,E)
- Q13 : 2SA954(L,K)
- D1-5 : *
- D6-9 : B30-2584-05
- D11-13 : DA204U
- D14,15 : B30-2571-05
- ED1 : 16-ST-43GNK

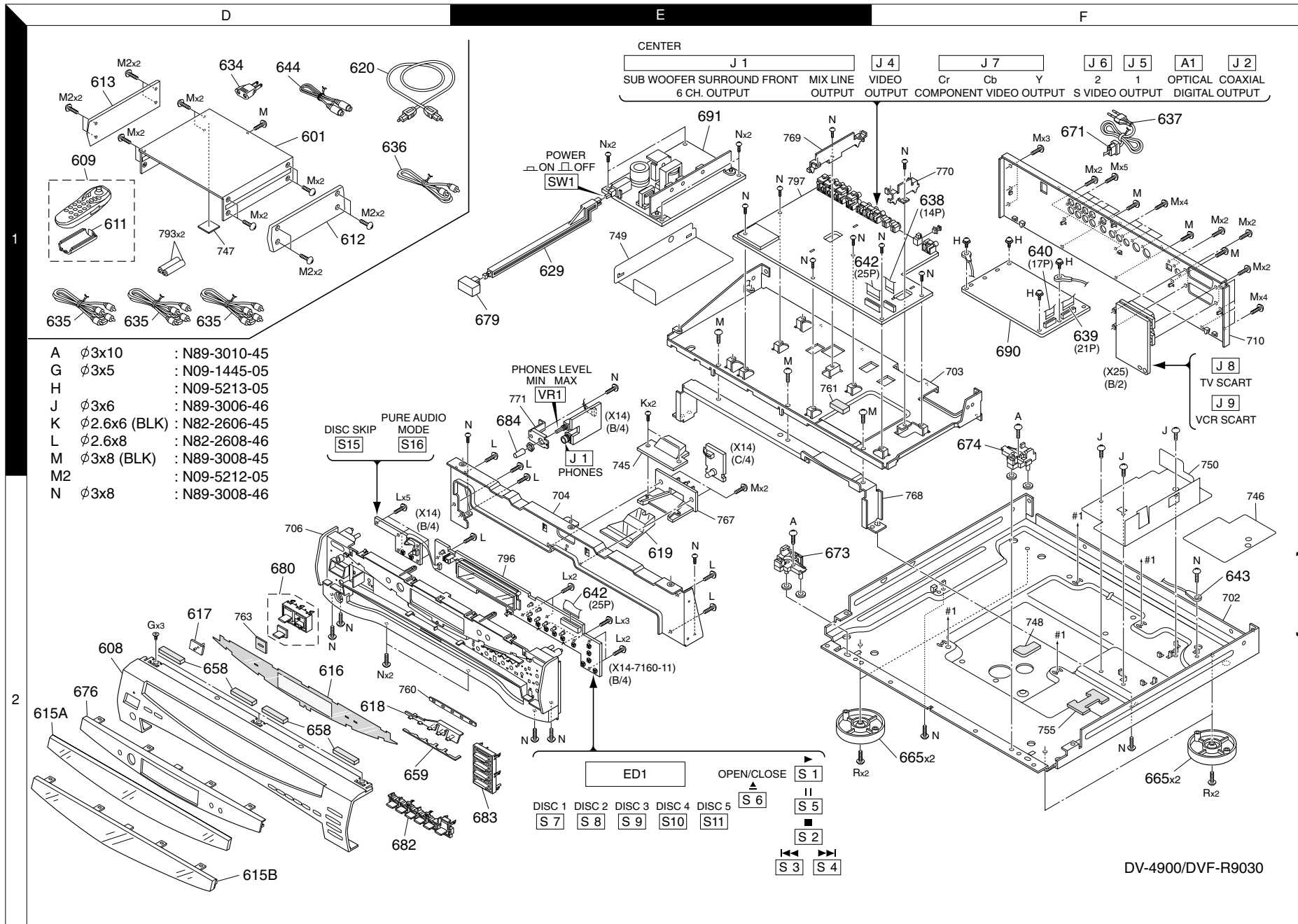
CAUTION: For continued safety, replace safety critical components only with manufacturer's recommended parts (refer to parts list). Δ indicates safety critical components. For continued protection against risk of fire, replace only with same type and rating fuse(s). To reduce the risk of electric shock,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

EXPLODED VIEW (MECHANISM)



EXPLODED VIEW (UNIT)



DV-4900/DVF-R9030

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Ref. No	Add-ress	New Parts	Parts No.	Description	Desti-nation	Re-marks
DV-4070-B/4900/DVF-R7030-B/R9030						
601	1D	*	A01-3759-01	METALLIC CABINET	9	
601	1D		A01-3776-01	METALLIC CABINET	7	
607	2A	*	A29-1107-22	PANEL TRAY	K1	
607	2A	*	A29-1110-22	PANEL TRAY	M1	
607	2A	*	A29-1110-22	PANEL TARY	E1T1X1	
607	2A	*	A29-1111-22	PANEL TRAY	K2	
607	2A	*	A29-1112-22	PANEL TRAY	E2T2	
608	2D	*	A60-1846-12	PANEL	X1M1	
608	2D	*	A60-1846-12	PANEL	9	
608	2D	*	A60-1847-12	PANEL	7	
609	1D	*	A70-1412-05	REMOTE CONTROLLER ASSY		
611	1D		A09-1124-08	BATTERY COVER		
612	1D	*	A50-1370-12	SIDE PLATE R	9	
613	1D	*	A50-1371-12	SIDE PLATE L	9	
615A	2D	*	B10-3608-03	FRONT GLASS	9	
615B	2D	*	B10-3609-02	FRONT GLASS	7	
616	2D	*	B11-1512-03	FILTER	7	
616	2D	*	B11-1513-03	FILTER	9	
617	2D	*	B12-0399-14	INDICATOR POWER		
618	2D		B12-0400-03	INDICATOR 5-DISC		
619	2E		B12-0401-04	INDICATOR SHOWER		
620	1D		B19-1529-05	OPTICAL FIBER		
621	2A	*	B43-0318-04	BADGE		
-			B46-0096-53	WARRANTY CARD	X	
-			B46-0310-03	WARRANTY CARD	ET	
-			B46-0328-03	WARRANTY CARD	K	
-			B46-0347-03	WARRANTY CARD	K	
-			B46-0352-00	QUESTIONAIRE CARD	K	
-			B58-0964-13	CAUTION CARD (UL)	K	
-			B58-0965-13	CAUTION CARD (PL)	TX	
-			B58-0966-13	CAUTION CARD (PL)	EM	
-			B58-0967-03	CAUTION CARD (PL)	K	
-		*	B60-4707-00	INSTRUCTION MANUAL(EN)	KKTXM	
-		*	B60-4708-00	INSTRUCTION MANUAL(FR)	KE	
-		*	B60-4709-00	INSTRUCTION MANUAL(GE)	E	
-		*	B60-4710-00	INSTRUCTION MANUAL(NE)	E	
-		*	B60-4711-00	INSTRUCTION MANUAL(IT)	E	
-		*	B60-4712-00	INSTRUCTION MANUAL(ES)	E	
-		*	B60-4713-00	INSTRUCTION MANUAL(TC)	M	
-		*	B60-4715-00	INSTRUCTION MANUAL(EN)	KTXM	
-		*	B60-4716-00	INSTRUCTION MANUAL(FR)	KE	
-		*	B60-4717-00	INSTRUCTION MANUAL(GE)	E	
-		*	B60-4826-00	INSTRUCTION MANUAL(NE)	E	
-		*	B60-4827-00	INSTRUCTION MANUAL(IT)	E	
-		*	B60-4828-00	INSTRUCTION MANUAL(ES)	E	
-		*	B60-4829-00	INSTRUCTION MANUAL(TC)	M	
629	1E	*	D21-1976-03	EXTENSION SHAFT		
630	1B		D40-1682-08	MECHANISM ASSY		
631	1C		D40-1695-05	MECHANISM ASSY		
634	1D		E03-0115-05	AC PLUG ADAPTER	M	
635	1D		E30-0505-05	AUDIO CORD		
636	1D		E30-1427-05	VIDEO CORD		

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637	1F		E30-2790-05	AC POWER CORD	X	
637	1F		E30-2791-05	AC POWER CORD	T	
637	1F		E30-2842-05	AC POWER CORD	EM	
637	1F		E30-2909-05	AC POWER CORD	K	
638	1B,1F		E35-2609-05	FLAT CABLE 14P		
639	2C,1F		E35-2610-05	FLAT CABLE 21P		
640	1C,1F		E35-2611-05	FLAT CABLE 17P		
642	2E,1F	*	E35-2608-05	FLAT CABLE 25P		
643	2F	*	E30-2964-15	GROUND WIRE		
644	1D	*	E30-2956-05	CORD WITH PLUG,S-VIDEO		
658	1C,2D		G11-2730-04	SOFT TAPE		
659	2D	*	G11-2783-04	CUSHION		
-			H10-7681-02	POLYSTYRENE FOAMED FIXTURE	7	
-			H10-7682-02	POLYSTYRENE FOAMED FIXTURE	7	
-		*	H10-7697-12	POLYSTYRENE FOAMED FIXTURE	9	
-		*	H10-7698-12	POLYSTYRENE FOAMED FIXTURE	9	
-		*	H12-3472-04	PACKING FIXTURE	9	
-		*	H12-3473-04	PACKING FIXTURE	7	
-		*	H20-0618-04	PROTECTION COVER	M	
-			H21-0303-04	PROTECTION SHEET		
-			H25-0232-04	PROTECTION BAG (235X350X0.03)	KEXM	
-			H25-0651-04	PROTECTION BAG	T	
-			H25-0661-04	PROTECTION BAG	7	
-		*	H25-1679-04	PROTECTION BAG	K1E1T1	
-		*	H25-1679-04	PROTECTION BAG	X1	
-		*	H50-3762-04	ITEM CARTON CASE	K1	
-		*	H50-3763-04	ITEM CARTON CASE	E1T1X1	
-		*	H50-3764-04	ITEM CARTON CASE	M1	
-		*	H50-3765-04	ITEM CARTON CASE	K2	
-		*	H50-3766-04	ITEM CARTON CASE	E2T2	
665	2F	*	J02-1481-13	FOOT		
666	1B		J11-0859-05	CLAMPER ASSY		
671	1F		J42-0083-05	POWER CORD BUSHING		
672	1C		J90-0875-05	GUIDE		
673	2E		J90-0876-05	GUIDE		
674	2F		J90-0878-05	GUIDE		
675	1B		J99-0820-05	TRAY ASSY		
676	2D	*	J19-6089-02	HOLDER B10	9	
-			J61-0307-05	WIRE BAND		
679	1D	*	K27-2408-14	KNOB (BUTTON) POWER	9	
679	1D	*	K27-2433-14	KNOB (BUTTON) POWER	7	
680	2D	*	K27-7915-04	KNOB ASSY AOP	7	
680	2D	*	K29-7194-04	KNOB ASSY AOP	9	
682	2D	*	K29-7805-13	KNOB 5-DISC	9	
682	2D	*	K29-7822-13	KNOB 5-DISC	7	
683	2E	*	K29-7806-13	KNOB PLAY	9	
683	2E	*	K29-7823-13	KNOB PLAY	7	
684	1E	*	K29-6599-04	KNOB PH	7	
684	1E	*	K29-7803-04	KNOB PH	9	
691	1E	*	W02-2751-05	ELECTRIC MODULE,POWER SUPPLY		
692	1C	*	W04-0013-05	MECHANICAL MODULE,DVD		
690	1F	*	X35-2240-10	VIDEO UNIT		

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PARTS LIST

DV-4070-B/4900/DVF-R7030-B/R9030

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Ref. No	Add-ress	New Parts	Parts No.	Description	Desti-nation	Re-marks
SUB (X13-7770-10)						
C1			CK73GB1H103K	CHIP C 0.010UF K		
CN1			E40-8542-05	FLAT CABLE CONNECTOR		
CN2		*	E40-5499-05	FLAT CABLE CONNECTOR		
L1 -18		*	L92-0521-05	FERRITE CORE		
DISPLAY (X14-7160-10)						
D1 -5		*	B30-2571-05	LED(BLUE)	9	
D1 -5			B30-2583-05	LED(GRN 5)	7	
D6 -9		*	B30-2584-05	LED(RED5)		
D14 ,15		*	B30-2571-05	LED(BLUE)		
C1 -3			CC73GCH1H470J	CHIP C 47PF J		
C4			CK73GB1H102K	CHIP C 1000PF K		
C5			CE04KW1H2R2M	ELECTRO 2.2UF 50WV		
C6			CK73GB1H103K	CHIP C 0.010UF K		
C7			CC73GCH1H330J	CHIP C 33PF J		
C8			CK73GB1H102K	CHIP C 1000PF K		
C9			CE04KW1A101M	ELECTRO 100UF 10WV		
C10 -25			CC73GCH1H101J	CHIP C 100PF J		
C31 ,32			CE04KW1H220M	ELECTRO 22UF 50WV		
C33 ,34			CC73GCH1H101J	CHIP C 100PF J		
C35 ,36			CC73GCH1H220J	CHIP C 22PF J		
C37 -39			CK73GB1H471K	CHIP C 470PF K		
C40			CK73GB1H561K	CHIP C 560PF K		
C41 ,42			CC73GCH1H220J	CHIP C 22PF J		
CN1			E40-4950-05	FLAT CABLE CONNECTOR		
J1			E11-0190-05	PHONE JACK (3P)		
E5			J11-0808-05	WIRE CLAMPER		
L1 -7		*	L92-0520-05	FERRITE CORE		
R1			RK73GB1J472J	CHIP R 4.7K J 1/16W		
R2			RK73GB1J332J	CHIP R 3.3K J 1/16W		
R19			RK73GB1J472J	CHIP R 4.7K J 1/16W		
R20			RK73GB1J332J	CHIP R 3.3K J 1/16W		
R22			RK73GB1J472J	CHIP R 4.7K J 1/16W		
R23			RK73GB1J332J	CHIP R 3.3K J 1/16W		
R25			RK73GB1J223J	CHIP R 22K J 1/16W		
R36 -38			RK73GB1J101J	CHIP R 100 J 1/16W		
R39			RK73GB1J102J	CHIP R 1.0K J 1/16W		
R40			RK73GB1J103J	CHIP R 10K J 1/16W		
R41			RK73GB1J473J	CHIP R 47K J 1/16W		
R42			RK73GB1J101J	CHIP R 100 J 1/16W		
R53			RK73GB1J102J	CHIP R 1.0K J 1/16W		
R60			RK73GB1J100J	CHIP R 10 J 1/16W		
R61 ,62			RK73GB1J104J	CHIP R 100K J 1/16W		
R63 ,64			RK73GB1J560J	CHIP R 56 J 1/16W		
R65 ,66			RK73GB1J330J	CHIP R 33 J 1/16W		
R67 ,68			RK73GB1J331J	CHIP R 330 J 1/16W		
R72 ,73			RK73GB1J102J	CHIP R 1.0K J 1/16W		
R74 ,75			RK73GB1J100J	CHIP R 10 J 1/16W		
VR1			R10-4049-05	POTENTIOMETER		

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Ref. No	Add-ress	New Parts	Parts No.	Description	Desti-nation	Re-marks
S1 -11			S70-0031-05	TACT SWITCH		
S15 ,16			S70-0031-05	TACT SWITCH		
D11 -13		*	DA204U	DIODE		
ED1			16-ST-43GNK	FLUORESCENT INDICATOR TUBE		
IC1			LC75712E	MOS-IC		
IC2			NJM4580ED	ANALOGUE IC		
Q1 -9			2SC1740S(Q,R)	TRANSISTOR		
Q1 -9			2SC2785(F,E)	TRANSISTOR		
Q11 ,12			2SC1740S(Q,R)	TRANSISTOR		
Q11 ,12			2SC2785(F,E)	TRANSISTOR		
Q13			2SA954(L,K)	TRANSISTOR		
A1			W02-2737-05	ELECTRIC CIRCUIT MODULE		
ELECTRIC (X25-6370-10)						
C1 -3			CK73GB1H102K	CHIP C 1000PF K		
C4			CC73GCH1H220J	CHIP C 22PF J		
C5			CK73GB1H122K	CHIP C 1200PF K		
C6			CC73GCH1H220J	CHIP C 22PF J		
C7			CC73GCH1H050C	CHIP C 5.0PF C		
C8			CK73GB1H122K	CHIP C 1200PF K		
C9			CC73GCH1H120J	CHIP C 12PF J		
C10			CK73GB1H122K	CHIP C 1200PF K		
C11			CK73GB1H102K	CHIP C 1000PF K		
C12			CK73GB1H103K	CHIP C 0.010UF K		
C13			CK73GB1H122K	CHIP C 1200PF K		
C14			CC73GCH1H100D	CHIP C 10PF D		
C16			CK73GB1H102K	CHIP C 1000PF K		
C17 -19			CC73GCH1H050C	CHIP C 5.0PF C		
C20			CK73GB1H122K	CHIP C 1200PF K		
C22			CE04KW1H100M	ELECTRO 10UF 50WV		
C24 -27			CE04KW1A471M	ELECTRO 470UF 10WV		
C29			C90-3749-05	ELECTRO 47UF 16WV		
C30			CK73GB1H102K	CHIP C 1000PF K		
C31 -34			CQ93FMG1H332J	MYLAR 3300PF J		
C35			CC73GCH1H080D	CHIP C 8.0PF D		
C36			CC73GCH1H100D	CHIP C 10PF D		
C37			CC73GCH1H080D	CHIP C 8.0PF D		
C38			CC73GCH1H100D	CHIP C 10PF D		
C39			CK73GB1H102K	CHIP C 1000PF K		
C40 -42			CC73GCH1H391J	CHIP C 390PF J		
C43			CC73GCH1H220J	CHIP C 22PF J		
C44			CC73GCH1H330J	CHIP C 33PF J		
C45			CC73GCH1H560J	CHIP C 56PF J		
C46			CC73GCH1H470J	CHIP C 47PF J		
C47			CC73GCH1H220J	CHIP C 22PF J		
C48			CC73GCH1H470J	CHIP C 47PF J		
C49			CC73GCH1H560J	CHIP C 56PF J		
C50			CC73GCH1H330J	CHIP C 33PF J		
C55			CC73GCH1H391J	CHIP C 390PF J		
C56 ,57			CC73GCH1H120J	CHIP C 12PF J		
C58 ,59			CQ93FMG1H102J	MYLAR 1000PF J		
C60 ,61			CC73GCH1H080D	CHIP C 8.0PF J		
C62 ,63			CC73GCH1H220J	CHIP C 22PF J		
C64			CC73GCH1H330J	CHIP C 33PF J		

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DV-4070-B/4900/DVF-R7030-B/R9030
PARTS LIST

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Ref. No	Add-ress	New Parts	Parts No.	Description	Desti-nation	Re-marks
C65 C66 C67 ,68 C69 ,70 C71			CC73GCH1H220J CC73GCH1H470J CE04KW1J470M CK73GB1H471K CK73GB1H122K	CHIP C 22PF J CHIP C 47PF J ELECTRO 47UF 63WV CHIP C 470PF K CHIP C 1200PF K		
C72 C73 C74 C75 C76 ,77			CK73GB1C104K CK73GF1A105Z CC73GCH1H100D CC73GCH1H560J CC73GCH1H121J	CHIP C 0.10UF K CHIP C 1.0UF Z CHIP C 10PF D CHIP C 56PF J CHIP C 120PF J		
C78 ,79 C80 ,81 C82 ,83 C84 ,85 C86			CC73GCH1H101J CQ93FMG1H103J CQ93FMG1H332J CQ93FMG1H152J CC73GCH1H470J	CHIP C 100PF J MYLAR 0.010UF J MYLAR 3300PF J MYLAR 1500PF J CHIP C 47PF J		
C87 C88 C89 C90 ,91 C93			CC73GCH1H560J CC73GCH1H330J CC73GCH1H220J CE04KW1H220M CK73GB1H821K	CHIP C 56PF J CHIP C 33PF J CHIP C 22PF J ELECTRO 22UF 50WV CHIP C 820PF K		
C94 -98 C99 C100 C101 C103			CK73GB1H102K CC73GCH1H470J CK73GB1H103K CE04KW1H100M CK73GB1H102K	CHIP C 1000PF K CHIP C 47PF J CHIP C 0.010UF K ELECTRO 10UF 50WV CHIP C 1000PF K	9 9	
C104 C106 C109 C110-113 C114			CC73GCH1H050C CE04KW1H100M C90-3749-05 CE04KW1H220M CC73GCH1H050C	CHIP C 5.0PF C ELECTRO 10UF 50WV ELECTRO 47UF 16WV ELECTRO 22UF 50WV CHIP C 5.0PF C		
C115 C116,117 C118,119 C121,122 C123,124			CC73GCH1H100D CC73GCH1H270J CC73GCH1H220J CE04KW1E221M CK73GB1H471K	CHIP C 10PF D CHIP C 27PF J CHIP C 22PF J ELECTRO 220UF 25WV CHIP C 470PF K		
C125,126 C127 C128-130 C131 C134			CE04KW1H220M CC73GCH1H100D CC73GCH1H050C CK73GB1H103K CC73GCH1H470J	ELECTRO 22UF 50WV CHIP C 10PF D CHIP C 5.0PF C CHIP C 0.010UF K CHIP C 47PF J	9	
C135 C137 C138 C139,140 C141			CC73GCH1H270J CC73GCH1H100D CK73GB1H102K CC73GCH1H050C CC73GCH1H050C	CHIP C 27PF J CHIP C 10PF D CHIP C 1000PF K CHIP C 5.0PF C CHIP C 5.0PF C	9 9 9	
C143 C144 C145,146 C147,148 C151			CC73GCH1H220J CC73GCH1H330J CE04KW1J470M CK73GB1H471K CC73GCH1H050C	CHIP C 22PF J CHIP C 33PF J ELECTRO 47UF 63WV CHIP C 470PF K CHIP C 5.0PF C		
C152 C155,156 C157 C159 C162			CK73GB1H102K CC73GCH1H120J C90-3749-05 CK73GB1H122K CK73GB1H821K	CHIP C 1000PF K CHIP C 12PF J ELECTRO 47UF 16WV CHIP C 1200PF K CHIP C 820PF K	9	

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Ref. No	Add-ress	New Parts	Parts No.	Description	Desti-nation	Re-marks
C163 C164 C166 C169,170 C171			CC73GCH1H050C CK73GB1C104K CE04RW1C100M CQ93FMG1H472J CC73GCH1H050C	CHIP C 5.0PF C CHIP C 0.10UF K ELECTRO 10UF 16WV MYLAR 4700PF J CHIP C 5.0PF C		
C172 C173 C174 C175 C176,177			CC73GCH1H050C CC73GCH1H050C CC73GCH1H100D CK73GB1H102K CE04KW1E221M	CHIP C 5.0PF C CHIP C 5.0PF C CHIP C 10PF D CHIP C 1000PF K ELECTRO 220UF 25WV	9 9 9	
C178,179 C183 C184 C185,186 C187,188			CK73GB1H471K CC73GCH1H560J CC73GCH1H470J CQ93FMG1H392J CC73GCH1H100D	CHIP C 470PF K CHIP C 56PF J CHIP C 47PF J MYLAR 3900PF J CHIP C 10PF D		
C189 C190 C191 C192 C193			CC73GCH1H560J CC73GCH1H470J CC73GCH1H220J CC73GCH1H330J CC73GCH1H220J	CHIP C 56PF J CHIP C 47PF J CHIP C 22PF J CHIP C 33PF J CHIP C 22PF J		
C194 C195,196 C199 C200,201 C202			CC73GCH1H330J CC73GCH1H100D CE04KW1A471M CE04KW1E220M CC73GCH1H121J	CHIP C 33PF J CHIP C 10PF D ELECTRO 470UF 10WV ELECTRO 22UF 25WV CHIP C 120PF J		
C203 C204,205 C206 C207 C208			CC73GCH1H101J CQ93FMG1H222J CK73GB1H122K CK73GB1H821K CK73GB1H122K	CHIP C 100PF J MYLAR 2200PF J CHIP C 1200PF K CHIP C 820PF K CHIP C 1200PF K	9	
C209 C210 C211 C212,213 C214			CK73GB1H821K CK73GB1H122K CK73GB1H821K CC73GCH1H120J CK73GB1C104K	CHIP C 820PF K CHIP C 1200PF K CHIP C 820PF K CHIP C 12PF J CHIP C 0.10UF K	9 9 9	
C215,216 C217,218 C219 C220 C221			CC73GCH1H100D CC73GCH1H220J CC73GCH1H560J CC73GCH1H470J CC73GCH1H220J	CHIP C 10PF D CHIP C 22PF J CHIP C 56PF J CHIP C 47PF J CHIP C 22PF J		
C222 C223 C225 C227-230 C231,232			CC73GCH1H330J CC73GCH1H121J CC73GCH1H101J CQ93FMG1H222J CC73GCH1H100D	CHIP C 33PF J CHIP C 120PF J CHIP C 100PF J MYLAR 2200PF J CHIP C 10PF D		
C233,234 C235 C236 C237 C238			CC73GCH1H271J CC73GCH1H220J CC73GCH1H330J CC73GCH1H560J CC73GCH1H470J	CHIP C 270PF J CHIP C 22PF J CHIP C 33PF J CHIP C 56PF J CHIP C 47PF J		
C239,240 C241,242 C243,244 C245 C246			CQ93FMG1H222J CC73GCH1H100D CC73GCH1H220J CC73GCH1H560J CC73GCH1H470J	MYLAR 2200PF J CHIP C 10PF D CHIP C 22PF J CHIP C 56PF J CHIP C 47PF J		

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PARTS LIST

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Ref. No	Add-ress	New Parts	Parts No.	Description	Desti-nation	Re-marks
C247			CC73GCH1H220J	CHIP C 22PF J		
C248			CC73GCH1H330J	CHIP C 33PF J		
C249			CC73GCH1H121J	CHIP C 120PF J		
C251			CC73GCH1H101J	CHIP C 100PF J		
C253-256			CQ93FMG1H222J	MYLAR 2200PF J		
C257,258			CC73GCH1H100D	CHIP C 10PF D		
C259,260			CC73GCH1H271J	CHIP C 270PF J		
C261			CC73GCH1H220J	CHIP C 22PF J		
C262			CC73GCH1H470J	CHIP C 47PF J		
C263			CC73GCH1H560J	CHIP C 56PF J		
C264			CC73GCH1H330J	CHIP C 33PF J		
C265			CK73GB1H122K	CHIP C 1200PF K		
C266			CK73GB1H471K	CHIP C 470PF K		
C267,268			CE04KW1C331M	ELECTRO 330UF 16WV		
C273			CC73GCH1H220J	CHIP C 22PF J		
C274			CC73GCH1H050C	CHIP C 5.0PF C		
C275			CC73GCH1H100D	CHIP C 10PF D		
C276-278			CC73GCH1H050C	CHIP C 5.0PF C		
C279-286			CC73GCH1H100D	CHIP C 10PF D		
C300			CE04RW1A101M	ELECTRO 100UF 10WV		
C301			CK73GB1C104K	CHIP C 0.10UF K		
C303			CK73GF1A105Z	CHIP C 1.0UF Z		
C304			CK73GB1H821K	CHIP C 820PF K		
C306			CK73GB1C104K	CHIP C 0.10UF K		
C308			CK73GB1C104K	CHIP C 0.10UF K		
C310			CK73GB1C104K	CHIP C 0.10UF K		
C311			CC73GCH1H100D	CHIP C 10PF D		
C312			CC73GCH1H390J	CHIP C 39PF J		
C313			CC73GCH1H470J	CHIP C 47PF J		
C315			CK73GB1C104K	CHIP C 0.10UF K		
C316			CC73GCH1H101J	CHIP C 100PF J		
C317			CK73GB1H102K	CHIP C 1000PF K		
C319			CC73GCH1H100D	CHIP C 10PF D		
C321-323			CE04RW1A101M	ELECTRO 100UF 10WV		
C324			CK73GB1C104K	CHIP C 0.10UF K		
C325-327		*	CE04RW1C680M	ELECTRO 68UF 16WV		
C328			CC73GCH1H060D	CHIP C 6.0PF D		
C329-332			CC73GCH1H470J	CHIP C 47PF J		
C333			CC73GCH1H220J	CHIP C 22PF J		
C334			CC73GCH1H220J	CHIP C 22PF J	ET	
C335			CK73GB1C104K	CHIP C 0.10UF K	ET	
C336			CC73GCH1H040C	CHIP C 4.0PF C	ET	
C339			CE04RW1A101M	ELECTRO 100UF 10WV		
C340		*	CK73FB1A334K	CHIP C 0.33UF K		
C341,342		*	CE04RW1C680M	ELECTRO 68UF 16WV	ET	
C343			CK73GB1H102K	CHIP C 1000PF K	ET	
C344		*	CE04RW1C680M	ELECTRO 68UF 16WV	ET	
C345-347			CK73GB1C104K	CHIP C 0.10UF K		
C348-352			CC73GCH1H470J	CHIP C 47PF J		
C355			CE04RW1A101M	ELECTRO 100UF 10WV		
C356		*	CK73FB1A334K	CHIP C 0.33UF K		
C357,358			CC73GCH1H050C	CHIP C 5.0PF C		
C359,360			CE04RW1A221M	ELECTRO 220UF 10WV		
C361-363			CC73GCH1H101J	CHIP C 100PF J	ET	
C364-366			CE04RW1C100M	ELECTRO 10UF 16WV	ET	

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C367			CC73GCH1H050C	CHIP C 5.0PF C		
C368			CQ93FMG1H224J	MYLAR 0.22UF J		
C370-375			CC73GCH1H470J	CHIP C 47PF J		
C376			CC73GCH1H560J	CHIP C 56PF J		
C380			CE04KW1C102M	ELECTRO 1000UF 16WV		
C400			CC73GCH1H050C	CHIP C 5.0PF C	ET	
C401,402			CK73GB1C104K	CHIP C 0.10UF K	ET	
C403			CE04RW1H010M	ELECTRO 1.0UF 50WV	ET	
C404			CE04RW1C220M	ELECTRO 22UF 16WV	ET	
C405-409			CE04RW1H010M	ELECTRO 1.0UF 50WV	ET	
C410			CE04RW1C101M	ELECTRO 100UF 16WV	ET	
C411			CK73GB1H821K	CHIP C 820PF K	ET	
C413			CC73GCH1H101J	CHIP C 100PF J	ET	
C414,415			CE04DW1C471M	ELECTRO 470UF 16WV	ET	
C416			CK73GB1C104K	CHIP C 0.10UF K	ET	
C417,418			CE04RW1C100M	ELECTRO 10UF 16WV	ET	
C420,421			CE04RW1C100M	ELECTRO 10UF 16WV	ET	
C423			CE04RW1C100M	ELECTRO 10UF 16WV	ET	
C425			CE04RW1C100M	ELECTRO 10UF 16WV	ET	
C426			CC73GCH1H101J	CHIP C 100PF J	ET	
C427			CE04RW1C100M	ELECTRO 10UF 16WV	ET	
C428			CC73GCH1H101J	CHIP C 100PF J	ET	
C429			CK73GB1C104K	CHIP C 0.10UF K	ET	
C430			CK73GB1H102K	CHIP C 1000PF K	ET	
C431			CE04DW1C471M	ELECTRO 470UF 16WV	ET	
C432			CE04RW1C100M	ELECTRO 10UF 16WV	ET	
C434			CE04DW1C471M	ELECTRO 470UF 16WV	ET	
C435			CE04RW1C100M	ELECTRO 10UF 16WV	ET	
C437			CE04DW1C471M	ELECTRO 470UF 16WV	ET	
C438			CE04RW1C100M	ELECTRO 10UF 16WV	ET	
C441-444			CC73GCH1H221J	CHIP C 220PF J	ET	
C448			CC73GCH1H221J	CHIP C 220PF J	ET	
C451-453			CC73GCH1H221J	CHIP C 220PF J	ET	
C457			CC73GCH1H101J	CHIP C 100PF J	ET	
C500			CK73GB1H102K	CHIP C 1000PF K	ET	
C501			CK73GF1A105Z	CHIP C 1.0UF Z		
C503			CK73GB1H102K	CHIP C 1000PF K		
C504			CC73GCH1H050C	CHIP C 5.0PF C		
C505			CE04KW1E470M	ELECTRO 47UF 25WV		
C506			CK73GB1H103K	CHIP C 0.010UF K		
C507			CK73GB1H102K	CHIP C 1000PF K		
C508,509			CC73GCH1H150J	CHIP C 15PF J		
C510-515			CK73GB1H102K	CHIP C 1000PF K		
C516-518			CC73GCH1H470J	CHIP C 47PF J		
C519			CK73GB1H102K	CHIP C 1000PF K		
C520			CE04KW1A470M	ELECTRO 47UF 10WV		
C521			CK73GF1A105Z	CHIP C 1.0UF Z		
CN1			E40-3249-05	PIN ASSY		
CN3,4			E40-8633-05	PIN ASSY		
CN5			E40-4912-05	FLAT CABLE CONNECTOR		
CN6			E40-4901-05	FLAT CABLE CONNECTOR		
CN7			E40-8632-05	PIN ASSY		
CN8			E40-3254-05	PIN ASSY	ET	
CN9			E40-3257-05	PIN ASSY	ET	

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J1		*	E63-1171-05	PIN JACK		
J2		*	E63-1128-05	PIN JACK		
J4		*	E63-1158-05	PIN JACK		
J5 ,6		*	E56-0031-05	CYLINDRICAL RECEPTACLE		
J7		*	E63-1156-05	PIN JACK		
J8 ,9		*	E58-0027-05	RECTANGULAR RECEPTACLE	ET	
E1			J11-0808-05	WIRE CLAMPER		
L1 -7		*	L92-0520-05	FERRITE CORE		
L8 ,9			L40-4791-58	SMALL FIXED INDUCTOR(4.7UH,K)		
L10 -12		*	L92-0520-05	FERRITE CORE	K	
L200			L92-0070-05	FERRITE CORE		
L300			L40-1001-58	SMALL FIXED INDUCTOR(10UH,K)		
L301			L40-2201-58	SMALL FIXED INDUCTOR(22UH,K)		
L302,303			L40-1001-58	SMALL FIXED INDUCTOR(10UH,K)		
X1			L77-2299-05	CRYSTAL RESONATOR(36.864MHZ)		
X2			L77-2300-05	CRYSTAL RESONATOR(33.8688MHZ)		
X3			L78-0636-05	RESONATOR (20MHZ)		
R1 ,2			RK73GB1J223J	CHIP R 22K J 1/16W		
R3			RK73GB1J105J	CHIP R 1.0M J 1/16W		
R4			RK73GB1J222J	CHIP R 2.2K J 1/16W		
R5			RK73GB1J105J	CHIP R 1.0M J 1/16W		
R6			RK73GB1J222J	CHIP R 2.2K J 1/16W		
R8			RK73GB1J102J	CHIP R 1.0K J 1/16W		
R9			RK73GB1J1R0J	CHIP R 1 J 1/16W		
R10 ,11			RK73GB1J3R9J	CHIP R 3.9 J 1/16W		
R12 ,13			RK73GB1J105J	CHIP R 1.0M J 1/16W		
R14			RK73GB1J3R9J	CHIP R 3.9 J 1/16W		
R15			RK73GB1J1R0J	CHIP R 1 J 1/16W		
R16 -18			RK73GB1J3R9J	CHIP R 3.9 J 1/16W		
R19			RK73GB1J1R0J	CHIP R 1 J 1/16W		
R20			RK73GB1J3R9J	CHIP R 3.9 J 1/16W		
R21 -24			RK73GB1J561J	CHIP R 560 J 1/16W		
R25 -28			RK73GB1J271J	CHIP R 270 J 1/16W		
R29 ,30			RK73GB1J102J	CHIP R 1.0K J 1/16W		
R31 -34			RK73GB1J271J	CHIP R 270 J 1/16W		
R35 ,36			RK73GB1J102J	CHIP R 1.0K J 1/16W		
R37 -40			RK73GB1J471J	CHIP R 470 J 1/16W		
R41 -44			RK73GB1J511J	CHIP R 510 J 1/16W		
R45 -48			RK73GB1J102J	CHIP R 1.0K J 1/16W		
R49 ,50			RK73GB1J104J	CHIP R 100K J 1/16W		
R51 ,52			RK73GB1J561J	CHIP R 560 J 1/16W		
R53 ,54			RK73GB1J224J	CHIP R 220K J 1/16W		
R55 ,56			RK73GB1J471J	CHIP R 470 J 1/16W		
R57 ,58			RK73GB1J224J	CHIP R 220K J 1/16W		
R59 ,60			RK73GB1J471J	CHIP R 470 J 1/16W		
R61 ,62			RK73GB1J104J	CHIP R 100K J 1/16W		
R63 ,64			RK73GB1J224J	CHIP R 220K J 1/16W		
R65 ,66			RK73GB1J3R9J	CHIP R 3.9 J 1/16W		
R67 ,68			RS14KB3D5R6J	FL-PROOF RS 5.6 J 2W		
R69			RS14KB3D1R8J	FL-PROOF RS 1.8 J 2W		
R70			RD14NB2E220J	RD 22 J 1/4W		
R71 ,72			RK73GB1J104J	CHIP R 100K J 1/16W		
R73 ,74			RK73GB1J181J	CHIP R 180 J 1/16W		

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R75 ,76			RK73GB1J102J	CHIP R 1.0K J 1/16W		
R77 ,78			RK73GB1J181J	CHIP R 180 J 1/16W		
R79 ,80			RK73GB1J102J	CHIP R 1.0K J 1/16W		
R81 ,82			RK73GB1J151J	CHIP R 150 J 1/16W		
R83 -86			RK73FB2A562J	CHIP R 5.6K J 1/10W		
R87			RK73GB1J181J	CHIP R 180 J 1/16W		
R88			RK73GB1J750J	CHIP R 75 J 1/16W		
R89			RK73GB1J220J	CHIP R 22 J 1/16W		
R90			RK73GB1J221J	CHIP R 220 J 1/16W		
R91 -93			RK73GB1J101J	CHIP R 100 J 1/16W		
R94 -99			RK73GB1J101J	CHIP R 100 J 1/16W	9	
R100			RK73GB1J100J	CHIP R 10 J 1/16W		
R101			RK73GB1J102J	CHIP R 1.0K J 1/16W	9	
R102			RK73GB1J100J	CHIP R 10 J 1/16W		
R103			RK73GB1J3R9J	CHIP R 3.9 J 1/16W	9	
R104			RK73GB1J3R9J	CHIP R 3.9 J 1/16W		
R105,106			RK73GB1J473J	CHIP R 47K J 1/16W		
R107			RK73GB1J100J	CHIP R 10 J 1/16W		
R108			RS14KB3D101J	FL-PROOF RS 100 J 2W		
R109			RD14NB2E6R8J	RD 6.8 J 1/4W		
R110			RK73GB1J101J	CHIP R 100 J 1/16W		
R111			RK73GB1J221J	CHIP R 220 J 1/16W		
R112			RK73GB1J471J	CHIP R 470 J 1/16W		
R113			RK73GB1J221J	CHIP R 220 J 1/16W		
R114			RK73GB1J101J	CHIP R 100 J 1/16W		
R115,116			RK73GB1J100J	CHIP R 10 J 1/16W	9	
R117,118			RK73GB1J100J	CHIP R 10 J 1/16W		
R119,120			RK73GB1J104J	CHIP R 100K J 1/16W		
R121,122			RK73GB1J181J	CHIP R 180 J 1/16W		
R123,124			RK73GB1J102J	CHIP R 1.0K J 1/16W		
R125,126			RK73GB1J181J	CHIP R 180 J 1/16W		
R127,128			RK73GB1J102J	CHIP R 1.0K J 1/16W		
R129,130			RK73GB1J151J	CHIP R 150 J 1/16W		
R131			RK73GB1J100J	CHIP R 10 J 1/16W		
R132-134			RK73GB1J101J	CHIP R 100 J 1/16W		
R135			RK73GB1J100J	CHIP R 10 J 1/16W		
R136-138			RK73GB1J101J	CHIP R 100 J 1/16W		
R139			RK73GB1J100J	CHIP R 10 J 1/16W		
R140			RK73GB1J101J	CHIP R 100 J 1/16W		
R141			RK73GB1J104J	CHIP R 100K J 1/16W		
R142			RK73GB1J472J	CHIP R 4.7K J 1/16W	9	
R143			RK73GB1J102J	CHIP R 1.0K J 1/16W		
R144			RK73GB1J100J	CHIP R 10 J 1/16W		
R145			RK73GB1J3R9J	CHIP R 3.9 J 1/16W	9	
R146			RK73GB1J3R9J	CHIP R 3.9 J 1/16W		
R147-149			RK73GB1J100J	CHIP R 10 J 1/16W		
R151,152			RK73GB1J224J	CHIP R 220K J 1/16W		
R153-156			RK73GB1J470J	CHIP R 47 J 1/16W		
R157			RK73GB1J1R0J	CHIP R 1 J 1/16W		
R159,160			RK73GB1J101J	CHIP R 100 J 1/16W		
R161,162			RK73GB1J104J	CHIP R 100K J 1/16W		
R163,164			RK73GB1J181J	CHIP R 180 J 1/16W		
R165			RK73GB1J102J	CHIP R 1.0K J 1/16W		
R167			RK73GB1J102J	CHIP R 1.0K J 1/16W		
R168,169			RK73GB1J181J	CHIP R 180 J 1/16W		

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R170,171 R172,173 R174 R175,176 R179,180			RK73GB1J102J RK73GB1J151J RK73GB1J3R3J RK73GB1J561J RK73GB1J561J	CHIP R 1.0K J 1/16W CHIP R 150 J 1/16W CHIP R 3.3 J 1/16W CHIP R 560 J 1/16W CHIP R 560 J 1/16W		
R181,182 R183,184 R185,186 R187 R188			RK73GB1J103J RK73GB1J752J RK73GB1J224J RK73GB1J104J RK73GB1J332J	CHIP R 10K J 1/16W CHIP R 7.5K J 1/16W CHIP R 220K J 1/16W CHIP R 100K J 1/16W CHIP R 3.3K J 1/16W		
R197,198 R201,202 R203,204 R205,206 R207,208			RK73GB1J470J RK73GB1J104J RK73GB1J181J RK73GB1J102J RK73GB1J181J	CHIP R 47 J 1/16W CHIP R 100K J 1/16W CHIP R 180 J 1/16W CHIP R 1.0K J 1/16W CHIP R 180 J 1/16W		
R209,210 R211,212 R213-215 R216-221 R222			RK73GB1J102J RK73GB1J151J RK73GB1J1R0J RK73GB1J1R0J RK73GB1J3R9J	CHIP R 1.0K J 1/16W CHIP R 150 J 1/16W CHIP R 1 J 1/16W CHIP R 1 J 1/16W CHIP R 3.9 J 1/16W	9	
R223-230 R231-234 R235,236 R237,238 R239,240			RK73GB1J561J RK73GB1J272J RK73GB1J561J RK73GB1J471J RK73GB1J472J	CHIP R 560 J 1/16W CHIP R 2.7K J 1/16W CHIP R 560 J 1/16W CHIP R 470 J 1/16W CHIP R 4.7K J 1/16W		
R241-248 R249-252 R253,254 R255,256 R257,258			RK73GB1J561J RK73GB1J272J RK73GB1J561J RK73GB1J471J RK73GB1J472J	CHIP R 560 J 1/16W CHIP R 2.7K J 1/16W CHIP R 560 J 1/16W CHIP R 470 J 1/16W CHIP R 4.7K J 1/16W		
R259 R260 R261-264 R265-268 R269-272			RK73GB1J3R9J RK73GB1J472J RK73GB1J511J RK73GB1J100J RK73GB1J102J	CHIP R 3.9 J 1/16W CHIP R 4.7K J 1/16W CHIP R 510 J 1/16W CHIP R 10 J 1/16W CHIP R 1.0K J 1/16W		
R273,274 R275,276 R277,278 R280-285 R286,287			RK73GB1J472J RK73FB2A562J RK73GB1J1R0J RK73GB1J101J RK73GB1J470J	CHIP R 4.7K J 1/16W CHIP R 5.6K J 1/10W CHIP R 1 J 1/16W CHIP R 100 J 1/16W CHIP R 47 J 1/16W		
R288-293 R294-297 R301 R302 R303-307			RK73GB1J101J RK73GB1J100J RK73GB1J101J RK73GB1J472J RK73GB1J473J	CHIP R 100 J 1/16W CHIP R 10 J 1/16W CHIP R 100 J 1/16W CHIP R 4.7K J 1/16W CHIP R 47K J 1/16W		
R308 R310 R311 R312 R312			RK73GB1J105J RK73GB1J473J RK73GB1J473J RK73GB1J184J RK73GB1J333J	CHIP R 1.0M J 1/16W CHIP R 47K J 1/16W CHIP R 47K J 1/16W CHIP R 180K J 1/16W CHIP R 33K J 1/16W	ETMX M ET	
R312 R312 R313 R314,315 R316			RK73GB1J473J RK73GB1J683J RK73GB1J473J RK73GB1J473J RK73GB1J221J	CHIP R 47K J 1/16W CHIP R 68K J 1/16W CHIP R 47K J 1/16W CHIP R 47K J 1/16W CHIP R 220 J 1/16W	K X E1T1XM	

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Ref. No	Add-ress	New Parts	Parts No.	Description	Desti-nation	Re-marks
R318-324 R325 R326 R327 R328			RK73GB1J473J RK73GB1J221J RK73GB1J473J RK73GB1J102J RK73GB1J222J	CHIP R 47K J 1/16W CHIP R 220 J 1/16W CHIP R 47K J 1/16W CHIP R 1.0K J 1/16W CHIP R 2.2K J 1/16W		
R329 R331,332 R335-337 R340-352 R353			RK73GB1J102J RK73GB1J1R0J RK73GB1J472J RK73GB1J473J RK73GB1J105J	CHIP R 1.0K J 1/16W CHIP R 1 J 1/16W CHIP R 4.7K J 1/16W CHIP R 47K J 1/16W CHIP R 1.0M J 1/16W		
R354,355 R356 R357-371 R373-386 R391-394			RK73GB1J3R3J RK73GB1J473J RK73GB1J101J RK73GB1J101J RK73GB1J473J	CHIP R 3.3 J 1/16W CHIP R 47K J 1/16W CHIP R 100 J 1/16W CHIP R 100 J 1/16W CHIP R 47K J 1/16W	7	
R398,399 R401 R402 R403 R404			RK73GB1J473J RK73GB1J101J RK73GB1J103J RK73GB1J100J RK73GB1J101J	CHIP R 47K J 1/16W CHIP R 100 J 1/16W CHIP R 10K J 1/16W CHIP R 10 J 1/16W CHIP R 100 J 1/16W		
R407 R408 R410 R411 R413			RK73GB1J101J RK73GB1J102J RK73GB1J101J RK73GB1J3R9J RK73GB1J101J	CHIP R 100 J 1/16W CHIP R 1.0K J 1/16W CHIP R 100 J 1/16W CHIP R 3.9 J 1/16W CHIP R 100 J 1/16W	ET	
R414 R415,416 R417,418 R419 R420			RK73GB1J3R9J RK73GB1J561J RK73GB1J302J RK73GB1J472J RK73GB1J101J	CHIP R 3.9 J 1/16W CHIP R 560 J 1/16W CHIP R 3.0K J 1/16W CHIP R 4.7K J 1/16W CHIP R 100 J 1/16W		
R421 R422 R423 R424 R425			RK73GB1J222J RK73GB1J101J RK73GB1J392J RK73GB1J103J RK73GB1J101J	CHIP R 2.2K J 1/16W CHIP R 100 J 1/16W CHIP R 3.9K J 1/16W CHIP R 10K J 1/16W CHIP R 100 J 1/16W		
R426 R427 R428 R429 R434			RK73GB1J222J RK73GB1J102J RK73GB1J101J RK73GB1J470J RK73GB1J103J	CHIP R 2.2K J 1/16W CHIP R 1.0K J 1/16W CHIP R 100 J 1/16W CHIP R 47 J 1/16W CHIP R 10K J 1/16W		
R435 R436 R437 R438-440 R441			RK73GB1J101J RK73GB1J222J RK73GB1J101J RK73GB1J911J RK73GB1J103J	CHIP R 100 J 1/16W CHIP R 2.2K J 1/16W CHIP R 100 J 1/16W CHIP R 910 J 1/16W CHIP R 10K J 1/16W		
R442 R443 R444 R445,446 R447			RK73GB1J101J RK73GB1J222J RK73GB1J101J RK73GB1J122J RK73GB1J103J	CHIP R 100 J 1/16W CHIP R 2.2K J 1/16W CHIP R 100 J 1/16W CHIP R 1.2K J 1/16W CHIP R 10K J 1/16W		
R448 R449 R450 R451,452 R453			RK73GB1J101J RK73GB1J222J RK73GB1J101J RK73GB1J122J RK73GB1J1R0J	CHIP R 100 J 1/16W CHIP R 2.2K J 1/16W CHIP R 100 J 1/16W CHIP R 1.2K J 1/16W CHIP R 1 J 1/16W		

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PARTS LIST

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Ref. No	Add-ress	New Parts	Parts No.	Description	Desti-nation	Re-marks
R454			RK73GB1J4R7J	CHIP R 4.7 J 1/16W	ET	
R455			RK73GB1J4R7J	CHIP R 4.7 J 1/16W		
R456			RK73GB1J101J	CHIP R 100 J 1/16W		
R457			RK73GB1J391J	CHIP R 390 J 1/16W		
R458			RK73GB1J101J	CHIP R 100 J 1/16W		
R459			RK73GB1J391J	CHIP R 390 J 1/16W		
R465			RK73GB1J103J	CHIP R 10K J 1/16W		
R466			RK73GB1J222J	CHIP R 2.2K J 1/16W		
R467			RK73GB1J101J	CHIP R 100 J 1/16W		
R468			RK73GB1J102J	CHIP R 1.0K J 1/16W		
R469			RK73GB1J470J	CHIP R 47 J 1/16W		
R470-478			RK73GB1J680J	CHIP R 68 J 1/16W		
R479			RK73GB1J102J	CHIP R 1.0K J 1/16W		
R480,481			RK73GB1J911J	CHIP R 910 J 1/16W		
R500			RK73GB1J151J	CHIP R 150 J 1/16W	ET	
R501,502			RK73GB1J750J	CHIP R 75 J 1/16W	ET	
R503			RK73GB1J151J	CHIP R 150 J 1/16W	ET	
R504			RK73GB1J101J	CHIP R 100 J 1/16W	ET	
R505			RK73GB1J472J	CHIP R 4.7K J 1/16W	ET	
R506			RK73GB1J103J	CHIP R 10K J 1/16W	ET	
R507-511			RK73GB1J101J	CHIP R 100 J 1/16W	ET	
R512,513			RK73GB1J473J	CHIP R 47K J 1/16W		
R514,515			RK73GB1J101J	CHIP R 100 J 1/16W	ET	
R516			RK73GB1J151J	CHIP R 150 J 1/16W	ET	
R517,518			RK73GB1J750J	CHIP R 75 J 1/16W	ET	
R519			RK73GB1J151J	CHIP R 150 J 1/16W	ET	
R520-523			RK73GB1J101J	CHIP R 100 J 1/16W	ET	
R524-526			RK73GB1J472J	CHIP R 4.7K J 1/16W	ET	
R527			RK73GB1J680J	CHIP R 68 J 1/16W	ET	
R528			RK73GB1J472J	CHIP R 4.7K J 1/16W	ET	
R529			RK73GB1J223J	CHIP R 22K J 1/16W	ET	
R530-537			RK73GB1J151J	CHIP R 150 J 1/16W	ET	
R538-543			RK73GB1J750J	CHIP R 75 J 1/16W	ET	
R544			RK73GB1J1R0J	CHIP R 1 J 1/16W	ET	
R545			RK73GB1J3R3J	CHIP R 3.3 J 1/16W	ET	
R546-548			RK73GB1J113J	CHIP R 11K J 1/16W		
R549			RK73GB1J104J	CHIP R 100K J 1/16W		
R550			RK73GB1J332J	CHIP R 3.3K J 1/16W	ET	
R551			RK73GB1J562J	CHIP R 5.6K J 1/16W	ET	
R552,553			RK73GB1J332J	CHIP R 3.3K J 1/16W	ET	
R554			RK73GB1J472J	CHIP R 4.7K J 1/16W	ET	
R555-557			RK73GB1J223J	CHIP R 22K J 1/16W	ET	
R558			RK73GB1J222J	CHIP R 2.2K J 1/16W		
R559			RK73GB1J105J	CHIP R 1.0M J 1/16W		
R560			RK73GB1J102J	CHIP R 1.0K J 1/16W		
W1 -13			R92-1963-05	JUMPER WIRE (RESISTOR TYPE)	K2	
W1 -3			R92-1963-05	JUMPER WIRE (RESISTOR TYPE)	K1XM	
W4 -10			R92-1963-05	JUMPER WIRE (RESISTOR TYPE)	E2T2	
W10			R92-1963-05	JUMPER WIRE (RESISTOR TYPE)	E1T1	
W10 -13			R92-1963-05	JUMPER WIRE (RESISTOR TYPE)	K1XM	
D1			DAP202U	DIODE		
D2 ,3			KV1832E	VARIABLE CAPACITANCE DIODE		
D5			UDZ6.8B	ZENER DIODE		
D8 -14			U1BC44	DIODE		
D15			MA111	DIODE	ET	

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D16			DA204U	DIODE		
D17			MA111	DIODE		
D18			DA204U	DIODE		
D19			UDZ3.9B	ZENER DIODE		
D20 -22			DA204U	DIODE		
D23 ,24			MA111	DIODE		
D25			DAN202U	DIODE		
D26			UDZ5.6B	ZENER DIODE		
IC1			KAN06	MOS-IC	9	
IC2 ,3			KAN06	MOS-IC		
IC4		*	AK4394-VF	MOS-IC		
IC5 ,6			AK4393-VF	MOS-IC		
IC7 -15			NJM4580ED	ANALOGUE IC		
IC16			TC74VHC08FT	MOS-IC		
IC17			TC7SHU04FU	MOS-IC		
IC18			NJU3711M	MOS-IC		
IC19			TC74HCT7007AF	MOS-IC		
IC20			TC7WH34FU	MOS-IC		
IC21			PST9128NR	ANALOGUE IC		
IC22			TC7WH74FU	MOS-IC		
IC24			TC7WH157FU	MOS-IC		
IC26,27			TC7SHU04FU	MOS-IC		
IC28-30			NJM4580ED	ANALOGUE IC		
IC31		*	TC74VHC00FT	MOS-IC		
IC32		*	AK4380-VT	MOS-IC		
IC33,34			TC9214AF	MOS-IC		
IC35,36			TA7805S	ANALOGUE IC		
IC37			TA79005S	IC(VOLTAGE REGULATOR/ -5V)		
IC100		*	MN101C28CMA	MI-COM IC		
IC101			S-80740AL-A4	IC(VOLTAGE DETECTOR)		
IC102		*	X25057M-2.7	MEMORY IC	ET ET	
IC300		*	ML6427	ANALOGUE IC		
IC301		*	MM1221XF	ANALOGUE IC		
IC302		*	MM1234XF	ANALOGUE IC		
IC400		*	MM1443XJ	ANALOGUE IC		
IC401-403		*	MM1224XF	ANALOGUE IC	ET ET	
Q3 -6			2SC4213(B)	TRANSISTOR		
Q7 ,8			DTA124EUA	DIGITAL TRANSISTOR		
Q9 ,10			DTC124EUA	DIGITAL TRANSISTOR		
Q11			2SC4177(L5,L6)	TRANSISTOR		
Q12			2SA1611(M5,M6)	TRANSISTOR		
Q13 -24			2SC4213(B)	TRANSISTOR		
Q25			DTA124EUA	DIGITAL TRANSISTOR		
Q26 -29			2SC4213(B)	TRANSISTOR		
Q30 -33			DTC124EUA	DIGITAL TRANSISTOR		
Q34			DTA124EUA	DIGITAL TRANSISTOR		
Q100			DTC124EUA	DIGITAL TRANSISTOR		
Q101			2SC4081(R,S)	TRANSISTOR		
Q300			2SC4081(R,S)	TRANSISTOR		
Q301			2SC2714(O,Y)	FET		
Q302,303			2SC4081(R,S)	TRANSISTOR		
Q304			2SA1576A(R,S)	TRANSISTOR		
Q305			2SC4081(R,S)	TRANSISTOR		
Q313			2SA1576A(R,S)	TRANSISTOR		
Q314			2SC4081(R,S)	TRANSISTOR		

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Q315 Q316 Q317 Q318,319 Q320			2SA1576A(R,S) 2SC4081(R,S) 2SA1576A(R,S) 2SC4081(R,S) 2SA1576A(R,S)	TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR		
Q321,322 Q397 Q398,399 Q400 Q401,402			2SC4081(R,S) DTC124EUA 2SC4081(R,S) DTA143TUA 2SC4081(R,S)	TRANSISTOR DIGITAL TRANSISTOR TRANSISTOR DIGITAL TRANSISTOR TRANSISTOR	ET ET ET ET	
Q403,404 Q405 Q406 Q407,408 Q409			DTC124EUA 2SA1576A(R,S) 2SC4081(R,S) 2SA1576A(R,S) DTA113ZUA	DIGITAL TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR DIGITAL TRANSISTOR	ET ET ET ET ET	
Q410 Q411 Q412,413			2SA1576A(R,S) 2SC4081(R,S) DTA124EUA	TRANSISTOR TRANSISTOR DIGITAL TRANSISTOR	ET ET ET	
A1			W02-2732-05	OSCILLATING MODULE		
VIDEO (X35-2240-10)						
C1 ,2 C3 C5 ,6 C7 C8			CK73GB1C104K C92-0047-05 C92-0041-05 CC73GCH1H471J CK73GB1C104K	CHIP C CHIP-ELE CHIP-ELE CHIP C CHIP C	0.10UF 47UF 10UF 470PF 0.10UF	K 6.3WV 10WV J K
C9 C10 C11 -13 C14 C15			CC73GCH1H560J CC73GCH1H101J CK73GB1C104K C92-0041-05 CC73GCH1H101J	CHIP C CHIP C CHIP C CHIP-ELE CHIP C	56PF 100PF 0.10UF 10UF 100PF	J J K 10WV J
C16 C17 -19 C20 C21 C22		*	CK73FB1A154K CK73GB1C104K CK73GB1H392K CK73GB1C104K CK73GF1A105Z	CHIP C CHIP C CHIP C CHIP C CHIP C	0.15UF 0.10UF 3900PF 0.10UF 1.0UF	K K K K Z
C23 C24 C25 C26 C27		*	C92-0041-05 CK73GB1C104K CK73FB1A334K CK73GB1C104K CC73GCH1H121J	CHIP-ELE CHIP C CHIP C CHIP C CHIP C	10UF 0.10UF 0.33UF 0.10UF 120PF	10WV K K K J
C28 C29 -31 C32 C33 C34		*	CC73GCH1H221J CK73GB1C104K CK73FB1A224K CK73GB1H102K CK73GB1H681K	CHIP C CHIP C CHIP C CHIP C CHIP C	220PF 0.10UF 0.22UF 1000PF 680PF	J K K K K
C35 C36 C37 C38 C39			CK73GB1C104K CK73GF1A105Z C92-0047-05 CC73GCH1H221J CK73GB1C104K	CHIP C CHIP C CHIP-ELE CHIP C CHIP C	0.10UF 1.0UF 47UF 220PF 0.10UF	K Z 6.3WV J K
C40 C41 C42 C43		*	CK73GB1H102K CK73GB1C104K CC73GCH1H221J CK73FB1A224K	CHIP C CHIP C CHIP C CHIP C	1000PF 0.10UF 220PF 0.22UF	K K J K

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Ref. No	Add-ress	New Parts	Parts No.	Description	Desti-nation	Re-marks
C44 C45 -48 C49 -51 C52 C53			CC73GCH1H820J CK73GB1C104K CK73GF1A105Z CC73GCH1H221J CC73GCH1H040C	CHIP C CHIP C CHIP C CHIP C CHIP C	82PF 0.10UF 1.0UF 220PF 4.0PF	J K Z J C
C54 C60 C61 ,62 C63 C77			CK73GF1H333Z C92-0047-05 C92-0048-05 CK73GB1H103K CK73GF1A105Z	CHIP C CHIP-ELE ELECTRO CHIP C CHIP C	0.033UF 47UF 100UF 0.010UF 1.0UF	Z 6.3WV 6.3WV K Z
C100 C101-104 C105 C106 C107-110			CK73GB1H102K CK73GF1H333Z CK73GB1H102K CC73GCH1H471J CK73GB1H102K	CHIP C CHIP C CHIP C CHIP C CHIP C	1000PF 0.033UF 1000PF 470PF 1000PF	K Z K J K
C111-113 C114 C115 C116 C117			CK73GB1C104K CK73GB1H392K CK73GB1H821K CC73GCH1H331J CC73GCH1H471J	CHIP C CHIP C CHIP C CHIP C CHIP C	0.10UF 3900PF 820PF 330PF 470PF	K K K J J
C118 C119,120 C121-124 C125 C126			CC73GCH1H271J CK73GB1H821K CK73GB1H102K CK73GB1C104K CK73GF1A105Z	CHIP C CHIP C CHIP C CHIP C CHIP C	270PF 820PF 1000PF 0.10UF 1.0UF	J K K K Z
C127,128 C129,130 C132 C133 C134			CK73GB1H102K CK73GB1C104K CC73GCH1H330J CC73GCH1H331J CK73GB1C104K	CHIP C CHIP C CHIP C CHIP C CHIP C	1000PF 0.10UF 33PF 330PF 0.10UF	K K J J K
C135 C136 C137 C138 C150,151			CK73GB1H102K CK73GF1A105Z C92-0048-05 CK73GB1H103K CC73GCH1H050C	CHIP C CHIP C ELECTRO CHIP C CHIP C	1000PF 1.0UF 100UF 0.010UF 5.0PF	K Z 6.3WV K C
C200 C201 C202-204 C205 C206			CK73GB1C104K CK73GB1H102K CK73GB1H103K CK73GB1H102K CK73GB1C104K	CHIP C CHIP C CHIP C CHIP C CHIP C	0.10UF 1000PF 0.010UF 1000PF 0.10UF	K K K K K
C207 C208-210 C211 C213,214 C300,301			CK73GB1H102K CK73GB1C104K C92-0041-05 CK73GB1C104K C92-0041-05	CHIP C CHIP C CHIP-ELE CHIP C CHIP-ELE	1000PF 0.10UF 10UF 0.10UF 10UF	K K 10WV K 10WV
C302-309 C310 C311-321 C322 C323			CK73GB1H102K CK73GB1H103K CK73GB1H102K CK73GB1H103K CK73GB1H102K	CHIP C CHIP C CHIP C CHIP C CHIP C	1000PF 0.010UF 1000PF 0.010UF 1000PF	K K K K K
C324 C400 C401 C404 C405-420		*	CK73GF1A105Z CK73GB1H102K CE32AP0G221M CE32AP0G221M CK73GB1H102K	CHIP C CHIP C CHIP-ELE CHIP-ELE CHIP C	1.0UF 1000PF 220UF 220UF 1000PF	Z K 4WV 4WV K

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C421 C422,423 C424-428 C429 C430			CC73GCH1H220J CK73GB1H102K CC73GCH1H220J CK73GB1H102K CC73GCH1H220J	CHIP C CHIP C CHIP C CHIP C CHIP C	22PF 1000PF 22PF 1000PF 22PF	J K J K J
C431 C432 C433 C434 C435			CK73GB1C104K CK73GB1H103K C92-0041-05 CK73GB1C104K CK73GF1A105Z	CHIP C CHIP C CHIP-ELE CHIP C CHIP C	0.10UF 0.010UF 10UF 0.10UF 1.0UF	K K 10WV K Z
C436,437 C438-445 C446-460 C471-482 C483			CK73GB1H102K CK73GB1C104K CK73GB1H102K CK73GB1H102K C92-0041-05	CHIP C CHIP C CHIP C CHIP C CHIP-ELE	1000PF 0.10UF 1000PF 1000PF 10UF	K K K K 10WV
C485 C486 C487 C500 C501-508			CK73GF1A105Z CK73GB1H102K CC73GCH1H050C C92-0041-05 CK73GB1H102K	CHIP C CHIP C CHIP C CHIP-ELE CHIP C	1.0UF 1000PF 5.0PF 10UF 1000PF	Z K C 10WV K
C509 C510 C511 C512 C513			CK73GB1C104K CK73GB1H102K CC73GCH1H101J CK73GB1H103K CK73GB1H102K	CHIP C CHIP C CHIP C CHIP C CHIP C	0.10UF 1000PF 100PF 0.010UF 1000PF	K K J K K
C550 C551-553 C554,555 C556,557 C600-602			C92-0041-05 CK73GB1H102K CC73GCH1H220J CK73GB1H102K CK73GB1H102K	CHIP-ELE CHIP C CHIP C CHIP C CHIP C	10UF 1000PF 22PF 1000PF 1000PF	10WV K J K K
C603,604 C605-607 C608 C609-611 C612,613			CC73GCH1H101J CK73GB1H102K CC73GCH1H060D CK73GB1H102K CK73GB1C104K	CHIP C CHIP C CHIP C CHIP C CHIP C	100PF 1000PF 6.0PF 1000PF 0.10UF	J K D K K
C614 C615,616 C617 C618 C620		*	CK73GB1H102K C92-0048-05 CK73GB1H102K CK73GB1C104K CE32AP0G221M	CHIP C ELECTRO CHIP C CHIP C CHIP-ELE	1000PF 100UF 1000PF 0.10UF 220UF	K 6.3WV K K 4WV
C700 C701 C702-707			CK73GB1H102K C92-0041-05 CK73GB1H102K	CHIP C CHIP-ELE CHIP C	1000PF 10UF 1000PF	K 10WV K
CN1 CN2 CN3, 4 CN5		*	E40-8631-05 E40-8630-05 E40-8628-05 E40-8629-05	FLAT CABLE CONNECTOR FLAT CABLE CONNECTOR SOCKET FOR PIN ASSY PIN ASSY		
L1 ,2 L3 L4 -12 L13 -17 L18 ,19		*	L92-0520-05 L92-0521-05 L92-0520-05 L92-0521-05 L92-0520-05	FERRITE CORE FERRITE CORE FERRITE CORE FERRITE CORE FERRITE CORE		
L20 ,21 L100		*	L40-1001-39 L92-0521-05	SMALL FIXED INDUCTOR(10UH,K) FERRITE CORE		

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L101 L200-203 L204-207 L208 L209-216		*	L40-1001-39 L92-0521-05 L92-0520-05 L40-1001-39 L92-0520-05	SMALL FIXED INDUCTOR(10UH,K) FERRITE CORE FERRITE CORE SMALL FIXED INDUCTOR(10UH,K) FERRITE CORE		
L300 L301 L401-410 L412-420 L500		*	L40-1001-39 L92-0521-05 L92-0520-05 L92-0520-05 L40-1001-39	SMALL FIXED INDUCTOR(10UH,K) FERRITE CORE FERRITE CORE FERRITE CORE SMALL FIXED INDUCTOR(10UH,K)		
L501 L502 L503-506 L600 L601-607		*	L92-0520-05 L40-2205-34 L92-0520-05 L40-1001-39 L92-0520-05	FERRITE CORE SMALL FIXED INDUCTOR(22UH) FERRITE CORE SMALL FIXED INDUCTOR(10UH,K) FERRITE CORE		
L700 X500		*	L92-0521-05 L77-2298-05	FERRITE CORE CRYSTAL RESONATOR(27MHZ)		
CP100 CP101 CP300,301 CP400,401 CP500-504		*	R90-0737-05 R90-0978-05 R90-0748-05 R90-0978-05 R90-0737-05	MULTI-COMP 100K X2 MULTIPLE RESISTOR MULTI-COMP 47K X4 MULTIPLE RESISTOR MULTI-COMP 100K X2		
R1 R2 R3 R4 R5		*	R92-1958-05 RK73GB1J223J RK73GB1J123J RK73GB1J2R2J RK73GB1J564J	METAL GLAZE RESISTOR CHIP R 22K J 1/16W CHIP R 12K J 1/16W CHIP R 2.2 J 1/16W CHIP R 560K J 1/16W		
R6 R7 ,8 R9 R10 R11			RK73GB1J154J RK73GB1J103J RK73GB1J823J RK73GB1J393J RK73GB1J752J	CHIP R 150K J 1/16W CHIP R 10K J 1/16W CHIP R 82K J 1/16W CHIP R 39K J 1/16W CHIP R 7.5K J 1/16W		
R12 R13 R14 R15 R16			RK73GB1J123J RK73GB1J393J RK73GB1J272J RK73GB1J223J RK73GB1J103J	CHIP R 12K J 1/16W CHIP R 39K J 1/16W CHIP R 2.7K J 1/16W CHIP R 22K J 1/16W CHIP R 10K J 1/16W		
R17 R18 R19 ,20 R21 R22		*	RK73GB1J223J RK73GB1J153J RK73GB1J474J RK73GB1J155J RK73GB1J332J	CHIP R 22K J 1/16W CHIP R 15K J 1/16W CHIP R 470K J 1/16W CHIP R 1.5M J 1/16W CHIP R 3.3K J 1/16W		
R23 R24 R100 R101 R102			RK73GB1J822J RK73GB1J183J RK73GB1J103J RK73GB1J473J RK73GB1J223J	CHIP R 8.2K J 1/16W CHIP R 18K J 1/16W CHIP R 10K J 1/16W CHIP R 47K J 1/16W CHIP R 22K J 1/16W		
R103 R104 R105 R106,107 R108			RK73GB1J183J RK73GB1J123J RK73GB1J822J RK73GB1J473J RK73GB1J472J	CHIP R 18K J 1/16W CHIP R 12K J 1/16W CHIP R 8.2K J 1/16W CHIP R 47K J 1/16W CHIP R 4.7K J 1/16W		
R109 R110			RK73GB1J470J RK73GB1J103J	CHIP R 47 J 1/16W CHIP R 10K J 1/16W		

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Ref. No	Add-ress	New Parts	Parts No.	Description	Desti-nation	Re-marks
R111			RK73GB1J101J	CHIP R 100 J 1/16W		
R112-114			RK73GB1J103J	CHIP R 10K J 1/16W		
R115			RK73GB1J473J	CHIP R 47K J 1/16W		
R116,117			RK73GB1J683J	CHIP R 68K J 1/16W		
R118			RK73GB1J123J	CHIP R 12K J 1/16W		
R119			RK73GB1J101J	CHIP R 100 J 1/16W		
R120			RK73GB1J223J	CHIP R 22K J 1/16W		
R121,122			RK73GB1J333J	CHIP R 33K J 1/16W		
R123			RK73GB1J362J	CHIP R 3.6K J 1/16W		
R124-127			RK73GB1J103J	CHIP R 10K J 1/16W		
R129			RK73GB1J103J	CHIP R 10K J 1/16W		
R130			RK73GB1J102J	CHIP R 1.0K J 1/16W		
R131			RK73GB1J472J	CHIP R 4.7K J 1/16W		
R132			RK73GB1J102J	CHIP R 1.0K J 1/16W		
R200			RK73GB1J183J	CHIP R 18K J 1/16W		
R201			RK73GB1J622J	CHIP R 6.2K J 1/16W		
R202,203			RK73GB1J222J	CHIP R 2.2K J 1/16W		
R204,205			RK73GB1J271J	CHIP R 270 J 1/16W		
R206-209			RK73GB1J103J	CHIP R 10K J 1/16W		
R210			RK73GB1J473J	CHIP R 47K J 1/16W		
R213			R92-1959-05	METAL GLAZE 0.5 F 1W		
R300,301			RK73GB1J102J	CHIP R 1.0K J 1/16W		
R302,303			RK73GB1J473J	CHIP R 47K J 1/16W		
R304			RK73GB1J102J	CHIP R 1.0K J 1/16W		
R400-405			RK73GB1J473J	CHIP R 47K J 1/16W		
R406-411			RK73GB1J221J	CHIP R 220 J 1/16W		
R412			RK73GB1J473J	CHIP R 47K J 1/16W		
R413-416			RK73GB1J564J	CHIP R 560K J 1/16W		
R417-424			RK73GB1J102J	CHIP R 1.0K J 1/16W		
R425			RK73GB1J101J	CHIP R 100 J 1/16W		
R426			RK73GB1J223J	CHIP R 22K J 1/16W		
R427			RK73GB1J473J	CHIP R 47K J 1/16W		
R428			RK73GB1J153J	CHIP R 15K J 1/16W		
R429			RK73GB1J333J	CHIP R 33K J 1/16W		
R430,431			RK73GB1J473J	CHIP R 47K J 1/16W		
R432-446			RK73GB1J101J	CHIP R 100 J 1/16W		
R447			RK73GB1J220J	CHIP R 22 J 1/16W		
R448			RK73GB1J101J	CHIP R 100 J 1/16W		
R449-458			RK73GB1J3R9J	CHIP R 3.9 J 1/16W		
R500			RK73GB1J103J	CHIP R 10K J 1/16W		
R501,502			RK73GB1J473J	CHIP R 47K J 1/16W		
R503			RK73GB1J103J	CHIP R 10K J 1/16W		
R504			RK73GB1J473J	CHIP R 47K J 1/16W		
R505			RK73GB1J472J	CHIP R 4.7K J 1/16W		
R506			RK73GB1J103J	CHIP R 10K J 1/16W		
R507			RK73GB1J472J	CHIP R 4.7K J 1/16W		
R508-510			RK73GB1J473J	CHIP R 47K J 1/16W		
R511			RK73GB1J3R9J	CHIP R 3.9 J 1/16W		
R512			RK73GB1J2R2J	CHIP R 2.2 J 1/16W		
R513			RK73GB1J473J	CHIP R 47K J 1/16W		
R516,517			RK73GB1J473J	CHIP R 47K J 1/16W		
R520			RK73GB1J102J	CHIP R 1.0K J 1/16W		
R550			RK73GB1J105J	CHIP R 1.0M J 1/16W		
R551			RK73GB1J221J	CHIP R 220 J 1/16W		
R553			RK73GB1J105J	CHIP R 1.0M J 1/16W		

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Ref. No	Add-ress	New Parts	Parts No.	Description	Desti-nation	Re-marks
R600,601			RK73GB1J101J	CHIP R 100 J 1/16W		
R602,603			RK73GB1J473J	CHIP R 47K J 1/16W		
R605,606			RK73GB1J102J	CHIP R 1.0K J 1/16W		
R609			RK73GB1J271J	CHIP R 270 J 1/16W		
R610			RK73GB1J102J	CHIP R 1.0K J 1/16W		
R611			RK73GB1J101J	CHIP R 100 J 1/16W		
R612			RK73GB1J331J	CHIP R 330 J 1/16W		
R613			RK73GB1J102J	CHIP R 1.0K J 1/16W		
R614			RK73GB1J101J	CHIP R 100 J 1/16W		
R615			RK73GB1J181J	CHIP R 180 J 1/16W		
R616			RK73GB1J102J	CHIP R 1.0K J 1/16W		
R617			RK73GB1J101J	CHIP R 100 J 1/16W		
R618			RK73GB1J331J	CHIP R 330 J 1/16W		
R619			RK73GB1J102J	CHIP R 1.0K J 1/16W		
R620			RK73GB1J101J	CHIP R 100 J 1/16W		
R621			RK73GB1J331J	CHIP R 330 J 1/16W		
R622			RK73GB1J102J	CHIP R 1.0K J 1/16W		
R623			RK73GB1J101J	CHIP R 100 J 1/16W		
R624			RK73GB1J331J	CHIP R 330 J 1/16W		
R626			RK73GB1J151J	CHIP R 150 J 1/16W		
VR600-602		*	R32-0093-05	SEMI FIXED VARIABLE RESISTOR		
W1			R92-1963-05	JUMPER WIRE (RESISTOR TYPE)		
D100-102			DA204U	DIODE		
D400			MA111	DIODE		
D500			MA111	DIODE		
D600			MA111	DIODE		
IC1		*	TK11120S	ANALOGUE IC		
IC2			AN8706FHQ	ANALOGUE IC		
IC100			MN67705EA	MOS-IC		
IC201		*	AN8785SB	ANALOGUE IC		
IC202		*	AN8480NSB	ANALOGUE IC		
IC300		*	MN103007B	MOS-IC		
IC301			TC7SH32FU	MOS-IC		
IC302			TC7SH08FU	MOS-IC		
IC400		*	MN677521HB	MOS-IC		
IC401,402		*	EM636165TS-8	MEMORY IC		
IC401,402			HY57V16160DTC	MEMORY IC		
IC403		*	TC7SET04FU	MOS-IC		
IC404		*	PQ2TZ15U	ANALOGUE IC		
IC405,406			TC74HCT7007AF	MOS-IC		
IC407			NJM2115V	ANALOGUE IC		
IC500		*	MN102LP25G	MI-COM IC		
IC501			PST596JNR	ANALOGUE IC		
IC502		*	X25057M-2.7	MEMORY IC		
IC503		*	AT49LV8192A90T	MEMORY IC		
IC504		*	BS62LV1024ST70	MEMORY IC		
IC504		*	KM68U1000E10	MEMORY IC		
IC505,506			TC7SHU04FU	MOS-IC		
IC507,508			TC7WH74FU	MOS-IC		
IC600		*	ADV7190	MOS-IC		
IC601		*	PQ1R33	ANALOGUE IC		
IC700		*	MN5C027D4H	MOS-IC		
IC701		*	TC3W02FU	MOS-IC		
Q1			2SB1115A	TRANSISTOR		

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DV-4070-B/4900/DVF-R7030-B/R9030
PARTS LIST

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Ref. No	Add- ress	New Parts	Parts No.	Description	Desti- nation	Re- marks
Q2 Q3 Q4 Q100 Q200,201 Q202 Q500 Q501 Q502 Q601-605			DTC124EUA DTA124EUA DTC124EUA DTC124EUA DTC124EUA DTA124EUA 2SC4081(R,S) 2SA1576A(R,S) DTC124EUA 2SA1576A(R,S)	DIGITAL TRANSISTOR DIGITAL TRANSISTOR DIGITAL TRANSISTOR DIGITAL TRANSISTOR DIGITAL TRANSISTOR DIGITAL TRANSISTOR TRANSISTOR TRANSISTOR DIGITAL TRANSISTOR TRANSISTOR		

HOW TO READ THE PARTS LIST

ABBREVIATION OF MODEL AND MASS PRODUCTION'S DESTINATIONS

MODEL	ABB.	Australia	Canada	China	England	Europe	Germany	Korea
		X	P	C	T	E	G	H
DV-4070-B	7	-	-	-	-	-	-	-
DVF-R7030-B	7	-	-	-	T2	E2	-	-
DV-4900	9	-	-	-	-	-	-	-
DVF-R9030	9	X1	-	-	T1	E1	-	-
MODEL	ABB.	Mexico	PX/AAFES	Russia	Scandinavia	Shanghai	USA	Other area
		R	Y	Q	L	V	K	M
DV-4070-B	7	-	-	-	-	-	K2	-
DVF-R7030-B	7	-	-	-	-	-	-	-
DV-4900	9	-	-	-	-	-	K1	-
DVF-R9030	9	-	-	-	-	-	-	M1

DV-4070-B/4900/DVF-R7030-B/R9030

SPECIFICATIONS

Format section

FormatDVD audio ver. 1.2 / DVD video ver.1.1
LaserSemiconductor laser
Video output formatNTSC/PAL

Audio section

Frequency response
Sampling frequency: 44.1kHz (CD only)4 Hz~20 kHz
Sampling frequency: 48 kHz4 Hz~22 kHz
Sampling frequency: 96 kHz4 Hz~44 kHz
Sampling frequency: 192 kHz (DVD AUDIO only)
.....4 Hz~88 kHz
Signal to noise ratioMore than 120 dB
Dynamic rangeMore than 100 dB
Total harmonic distortionLess than 0.0025 % (1kHz)
Channel separationMore than 95 dB (1kHz)
Analog output level/impedance
MIX LINE OUTPUT2 V/ 510 Ω
6 CH. OUTPUT2 V / 510 Ω
Digital output level/impedance
COAXIAL0.5 Vp-p/ 75 Ω
OPTICAL (Wave length 660 nm)-21 dBm ~ -15 dBm
Headphone output30 mW/ 32 Ω load (Phones level MAX)

Video Section

Composite video output level1 Vp-p (75 Ω)
S-video output level
(Y-signal)1 Vp-p (75 Ω)
(C-signal)0.286 Vp-p (75 Ω)
Component video output level
[DV-4900, DV-4070]
(Y-signal)1 Vp-p (75 Ω)
(Cb-signal)0.648 Vp-p (75 Ω)
(Cr-signal)0.648 Vp-p (75 Ω)
[DVF-R9030, DVF-R7030]
(Y-signal)1 Vp-p (75 Ω)
(Cb-signal)0.7 Vp-p (75 Ω)
(Cr-signal)0.7 Vp-p (75 Ω)
RGB output level (SCART)0.7 Vp-p (75 Ω)
Video signal to noise ratio65 dB
Horizontal resolution500 lines

Laser Section

Wavelength660~676 nm
Laser power classclass 2 (IEC)

General Section

[DV-4900, DVF-R9030]

Power consumption35 W
DimensionsW : 474 mm (18-11/16")
H : 127 mm (5")
D : 410 mm (16-1/8")
Weight (net)7.4 kg (16.3 lb)

[DV-4070, DVF-R7030]

Power consumption35 W
DimensionsW : 440 mm (17-5/16")
H : 127 mm (5")
D : 410 mm (16-1/8")
Weight (net)6.3 kg (13.9 lb)



KENWOOD follows a policy of continuous advancements in development. For this reason specifications may be changed without notice.

Sufficient performance may not be exhibited at extremely cold locations (Where water freezes).

DV-4070-B/4900/DVF-R7030-B/R9030

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