

FUNAI

SERVICE MANUAL

Sec. 1: Main Block

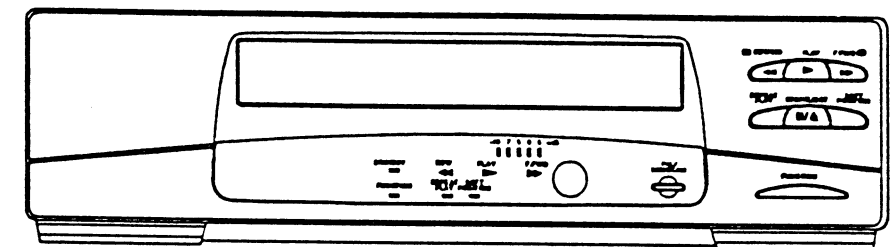
Specifications
Preparation for Servicing
Adjustment Procedures
Schematic Diagrams
CBA's
Exploded Views
Parts List

Sec. 2: Deck Mechanism Block

Standard Maintenance
Alignment for Mechanism
Disassembly / Assembly of Mechanism
Deck Schematic Diagram
Deck CBA's
Deck Exploded Views
Deck Parts List

VIDEO CASSETTE PLAYER

VCP-500D / VCP-500

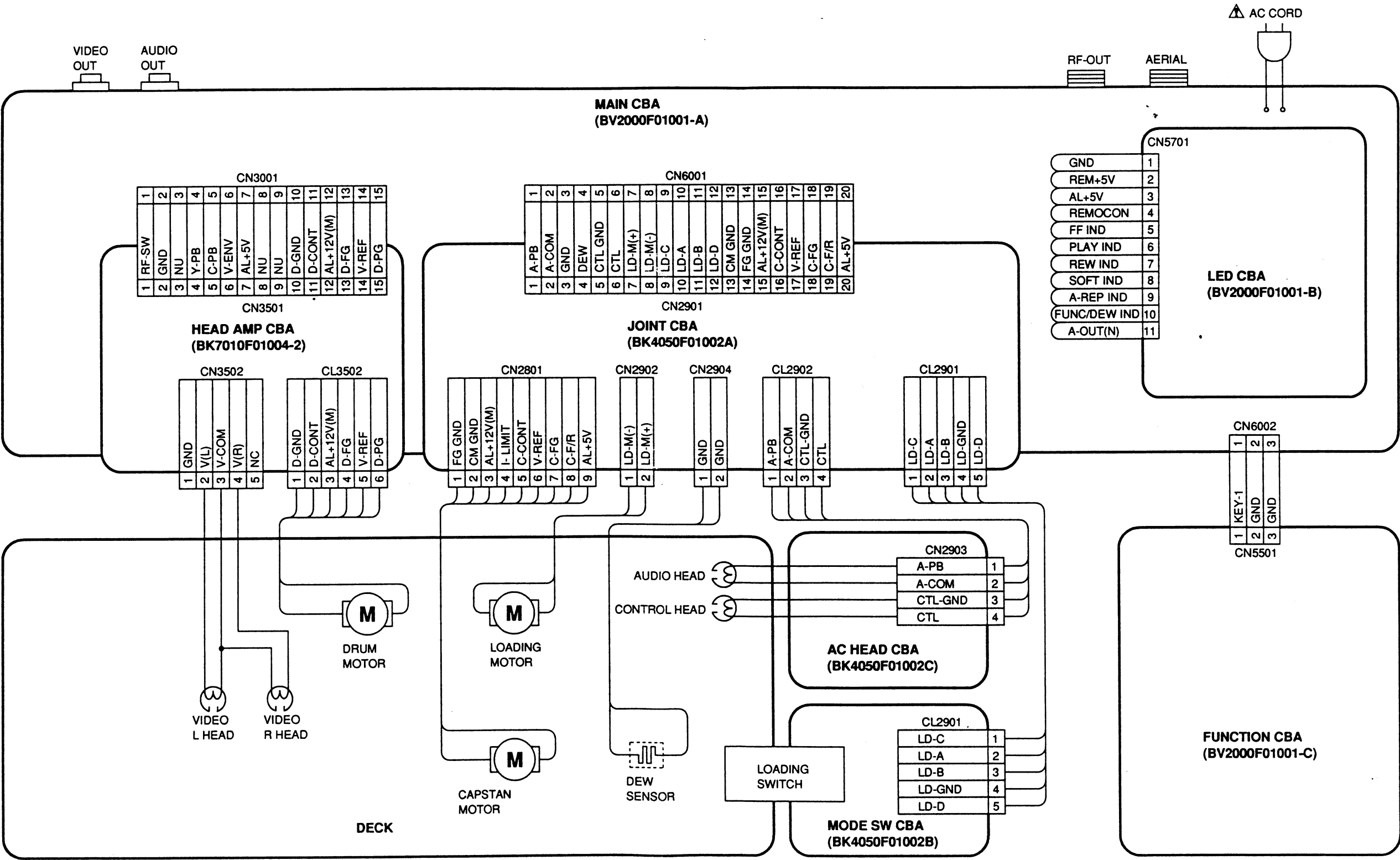


VHS
PAL

WIRING DIAGRAM (MODELS: A, B, C, D, F)

COMPARISON CHART OF MODELS AND TYPES

MODEL	MARK
VIP-5000HC MKII	A
VIP-5000A MKII	B
VCP-500D	C
VCP-500	D
VIP-5000LR	E
VIP-8000K MKII	F

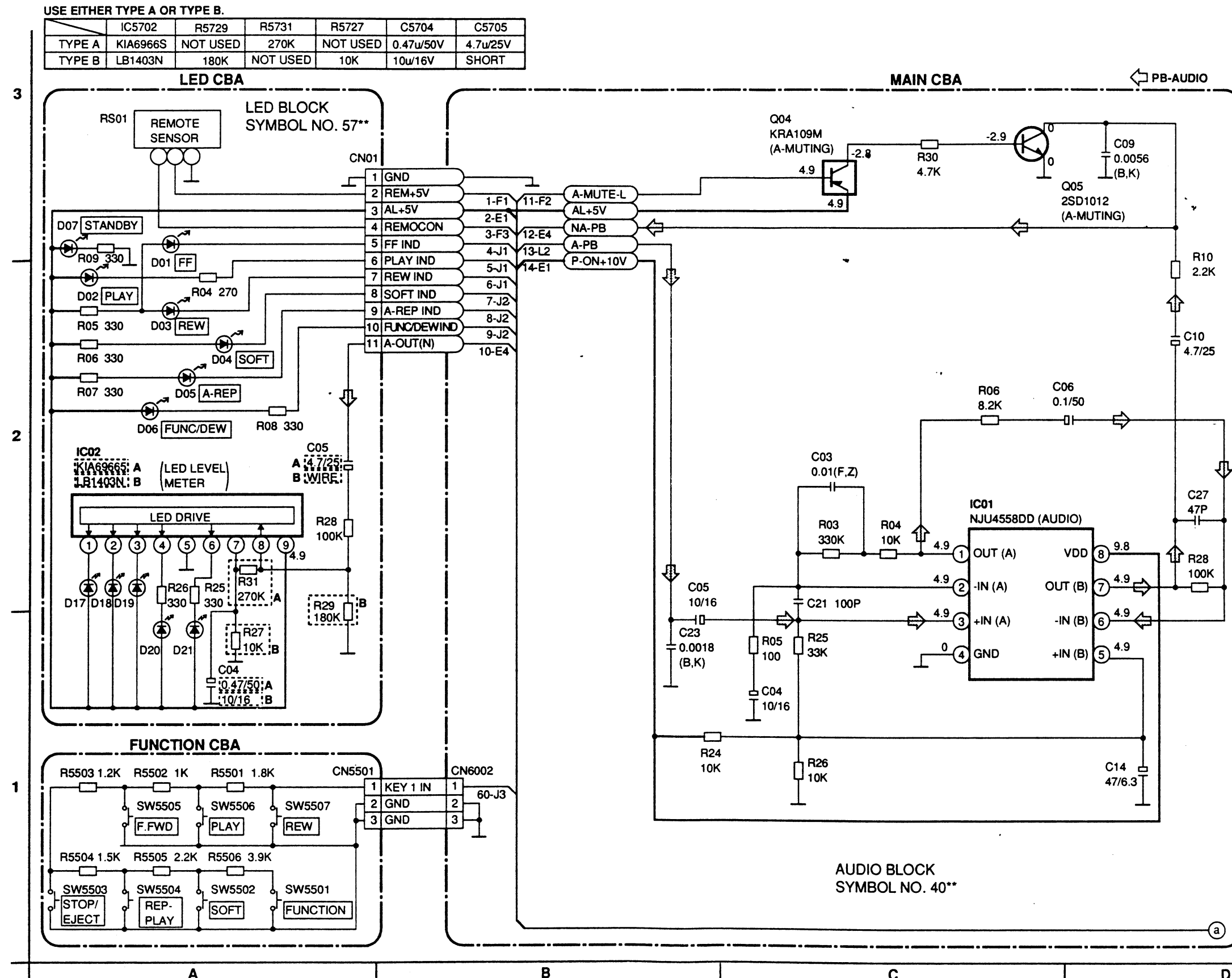


SCHEMATIC DIAGRAMS / CBA'S AND TEST POINTS

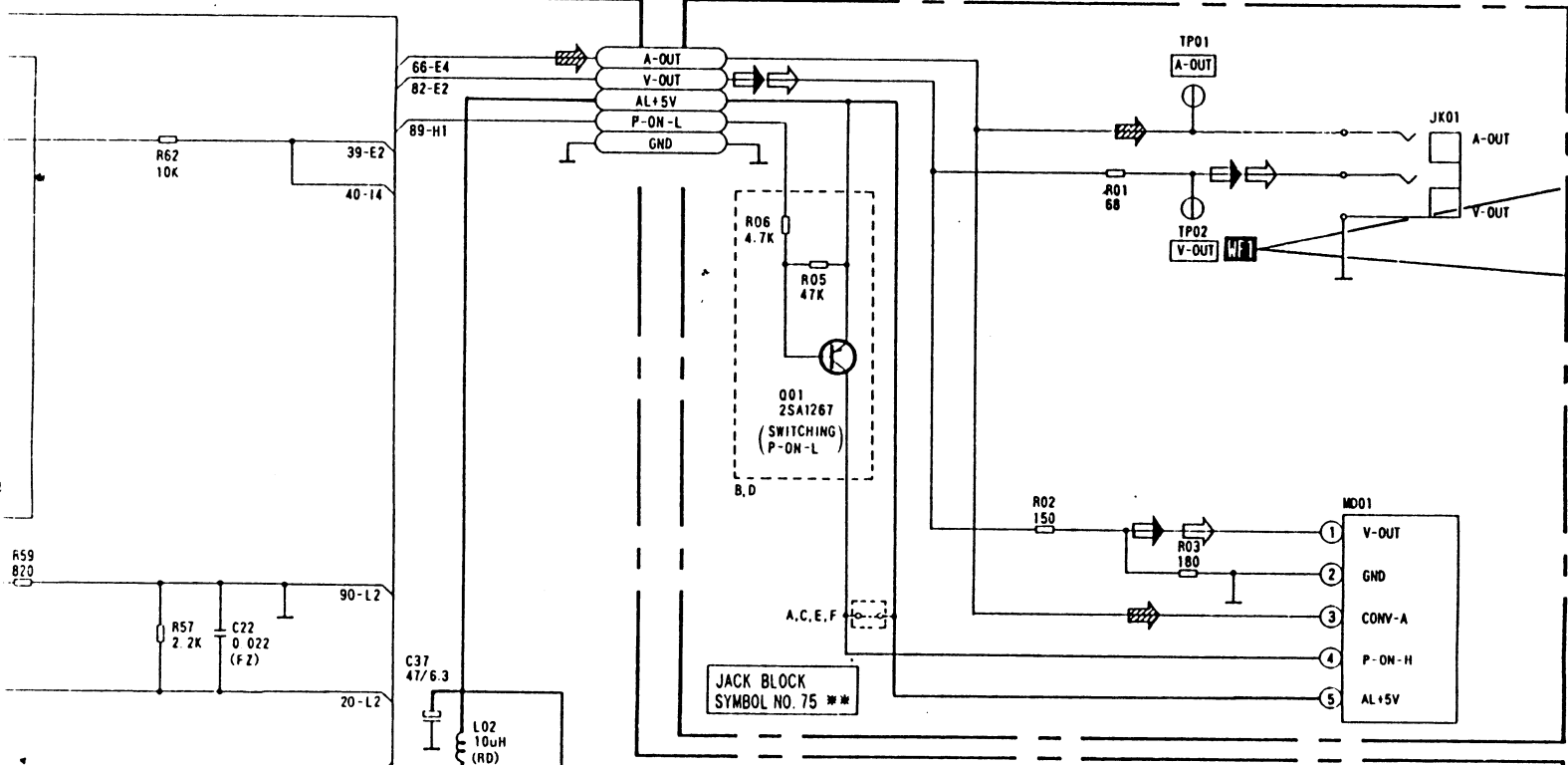
Main 1/5 Schematic Diagram (MODELS: A, B, C, D, F)

COMPARISON CHART OF MODELS AND TYPES

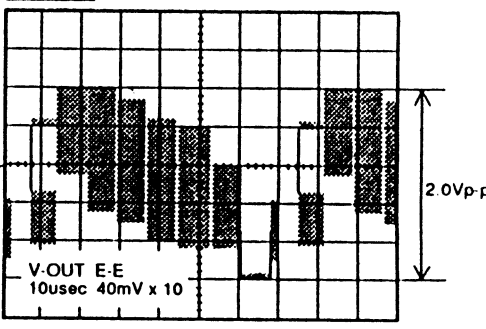
MODEL	MARK
VIP-5000HC MKII	A
VIP-5000A MKII	B
VCP-500D	C
VCP-500	D
VIP-5000LR	E
VIP-8000K MKII	F



C SIGNAL PB-A SIGNAL

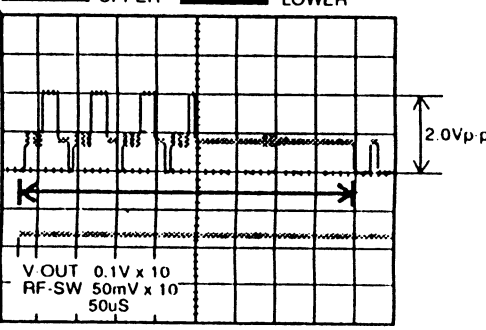


WF1



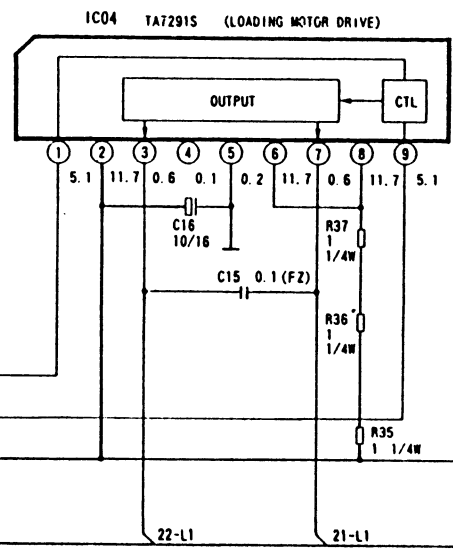
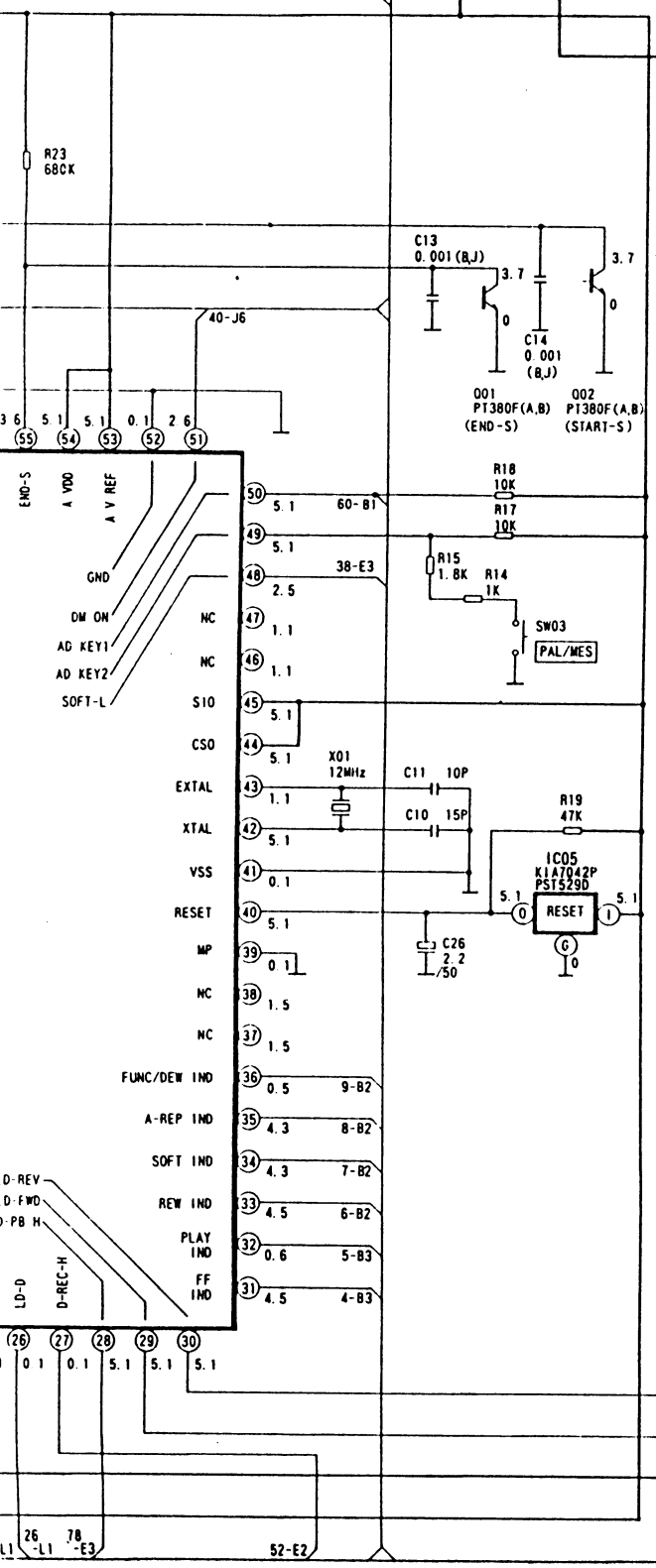
WF1 UPPER

WF2 LOWER



★ Chart for use of Reel Sensor

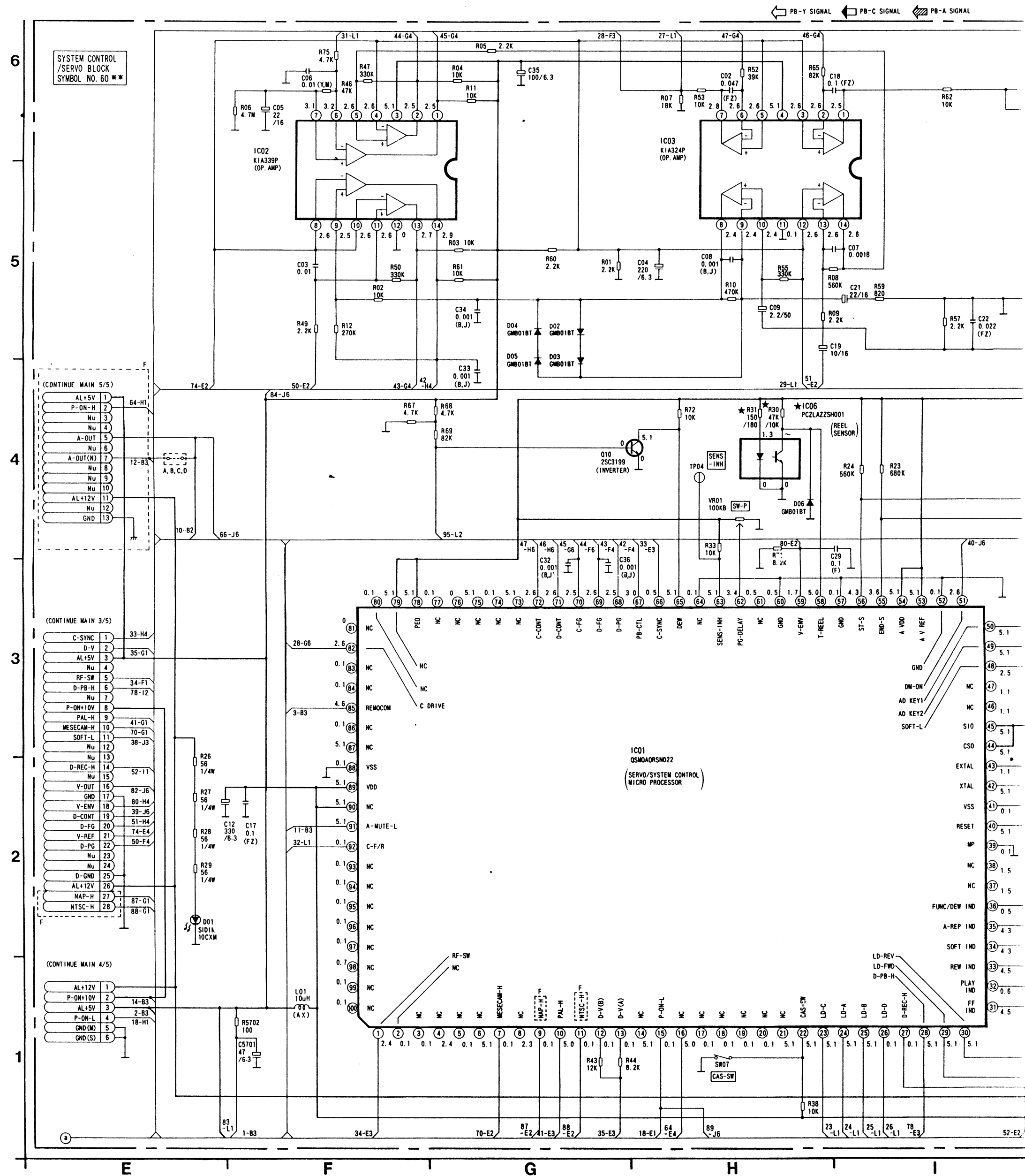
Ref.No.	Part No.	Part No.
IC6006	GP1S36	SG-211L
R6030	47K	10K
R6031	150Ω	180Ω



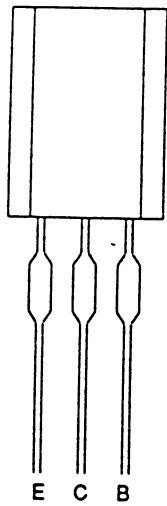
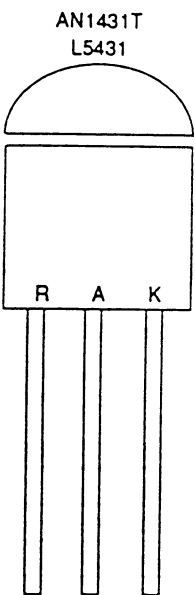
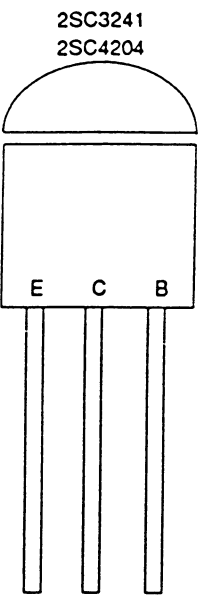
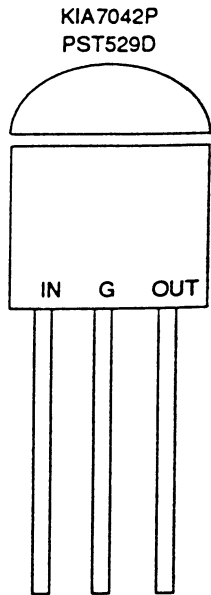
(TO JOINT CBA)
CN2901

13-B3	1	A-PB
95-G4	2	A-COM
90-J5	3	GND
20-J4	4	DEW
21-K1	5	CTL GND
22-K7	6	CTL
23-H1	7	LD-M (+)
24-I1	8	LD-M (-)
25-I1	9	LD-C
26-I1	10	LD-A
	11	LD-B
	12	LD-D
	13	CM GND
	14	FG GND
	15	AL+12V
	16	C-CONT
	17	V-REF
	18	C-FG
	19	C-F/R
	20	AL+5V

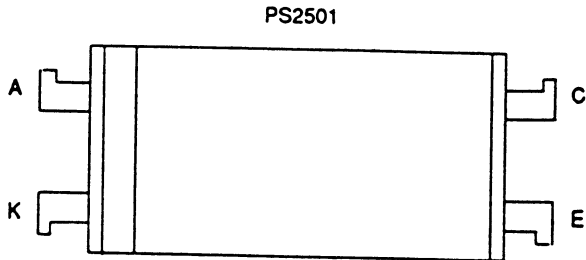
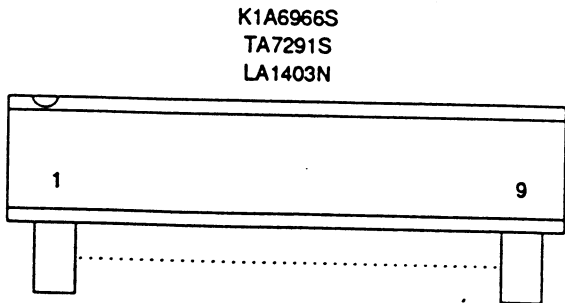
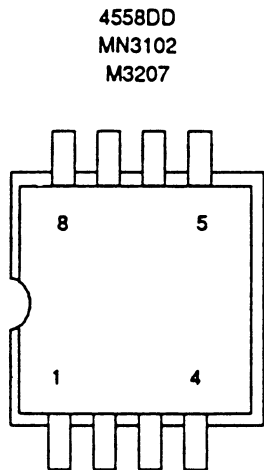
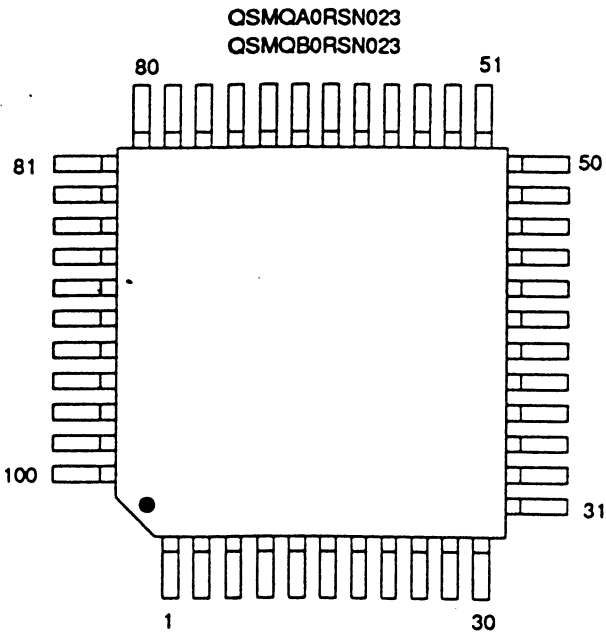
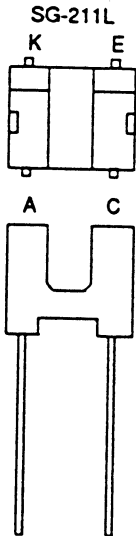
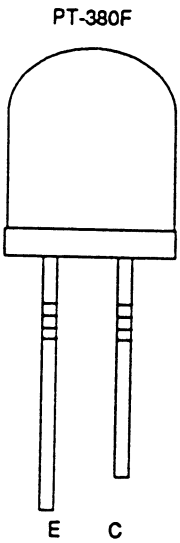
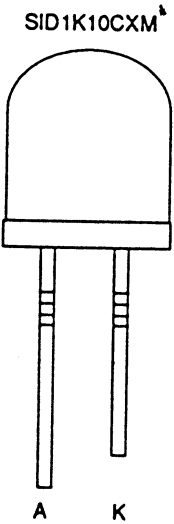
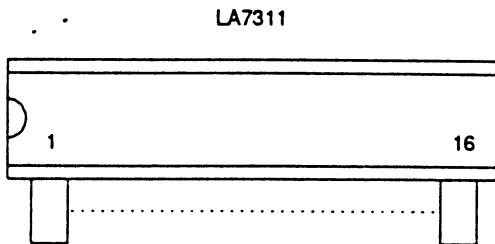
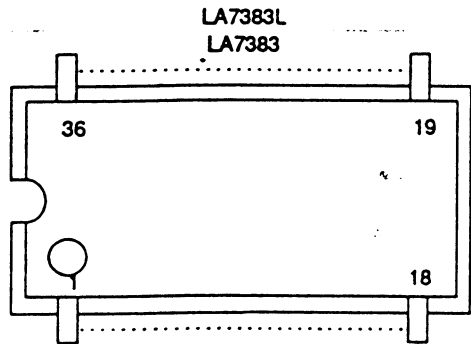
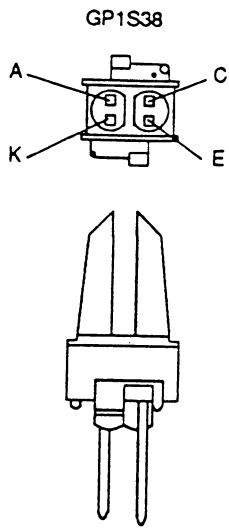
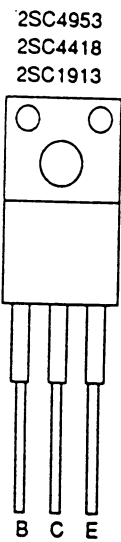
Main 2/5 Schematic Diagram (MODELS: A, B, C, D, F)



LEAD IDENTIFICATIONS



2SA1267
2SC3199
2SA608
2SA1317
2SA1346
2SC536
2SC2058
2SC2839
2SC3400
2SD400
DTA143
DTA144
KRA103M
KRC103M
KRA109M



IC PIN FUNCTION DESCRIPTION (MODELS : A, B, C, D, F)

COMPARISON CHART OF MODELS AND MARKS

MODEL	MARK
VIP-5000HC MKII	A
VIP-5000A MKII	B
VCP-500D	C
VCP-500	D
VIP-5000LR	E
VIP-8000K MKII	F

IC6001 QSMQA0RSN023 or QSQMB0RSN023 (SERVO/SYSTEM CONTROL)

"H" ≥ 4.6, "L" ≤ 0.5

Pin No.	IN/OUT	Signal Name	Function	Active Level
1	OUT	RF-SW	Video Head Switching Pulse	H/L
2	—	GRAY-H	Not Used	—
3				
4	OUT	ROTA	Color Phase Rotary Change over Signal	H/L
5				
6				
7	OUT	MESECAM-H	MESECAM mode = "H"	H
8				
9	OUT	NAP	PAL-TV mode/NTSC4.43 TV mode Switching Signal = PALTV "H" NTSC4.43 "L"	H/L
10	OUT	PAL-H	PAL mode = "H"	H
11	OUT	PAL/NTSC	PAL/NTSC mode Switching Signal (PAL = "L"/NTSC = "H")	H/L
12	IN	D-V (B)	Dummy V-SYNC (B)	H/L
13	IN	D-V (A)	Dummy V-SYNC (A)	H/L
14				
15	OUT	P-ON-L	Power-on Instruction Signal (P-ON = "L")	L
16	OUT	P-ON-H	Power-on Instruction Signal (P-ON = "H")	H
17				
18				
19	OUT	A-MUTE-H	Audio Mute Output (Mute = "H")	H
20	OUT	D-PB-L	Video/Audio Playback Instruction Signal (Playback = "L")	L
21	OUT	TV/VCR	RF CONV. ON/OFF Signal	H
22	IN	CAS-SW	Cassette IN/OUT Detector (IN/OUT Rotation = "H")	H
23	IN	LD-C	Loading Position Detector	H/L
24	IN	LD-A	Loading Position Detector	H/L
25	IN	LD-B	Loading Position Detector	H/L
26	IN	LD-D	Loading Position Detector	H/L
27				
28	OUT	D-PB-H	Video/Audio Playback Instruction Signal (Playback = "H")	H
29	OUT	LD-FWD	Loading Motor Forward Control Output (Forward/Stop = "H")	H
30	OUT	LD-REV	Loading Motor Reverse Control Output (Reverse/Stop = "H")	H
31	OUT	FF-IND	FF Mode Display Output	L
32	OUT	PLAY-IND	PLAY Mode Display Output	L
33	OUT	REW-IND	REW mode Display Output	L
34	OUT	SOFT-IND	Soft Position Mode Display Output	L

Pin No.	IN/OUT	Signal Name	Function	Active Level
35	OUT	A-REPEAT-IND	Auto Repeat Mode Display Output	L
36	OUT	Power/DEW-IND	Power-ON Mode Display Output/Dew mode Display Output (LED Flashing)	L
37				
38				
39				
40	IN	RESET	System Reset Signal (Usually = "H"/Reset = "L")	L
41	—	VSS	Digital Power GND	—
42	OUT	OSC	Crystal Oscillator 12 MHz	—
43	IN	OSC	Crystal Oscillator 12 MHz	—
44				
45				
46				
47				
48	OUT	SOFT-Position	Soft Position Mode Switching Signal (Soft Position ON = "H")	H
49	IN	A/D KEY - 2	Key Scan Signal Input	—
50	IN	A/D KEY - 1	Key Scan Signal Input	—
51	OUT	DM-ON	Drum Rotation Control Signal Output (Rotation = "H")	H
52	—	A-VSS	Analog Power GND	—
53	—	V REF	Servo Reference Voltage	—
54	—	A-VDD	Analog Power Source +5V	—
55	IN	END-S	Tape END Position Detect	L
56	IN	ST-S	Tape Start Position Detect	L
57				
58	IN	T-REEL	Take up Reel Rotation Signal Input	H/L
59	IN	V-ENV	Video DC Envelope Voltage Input	—
60				
61				
62	IN	PG-DELAY	RF-SW Signal Delay Adjust Voltage Input	—
63	IN	SENS-INH	Interrupt Signals from "Start" "END" "Reel" sensor at "L"	L
64				
65	IN	DEW	Dew Sensor Position Detect	L
66	IN	C-SYNC	Composite Sync Signal Input (V-SYNC Sepa)	H
67	IN	PB-CTL	Capstan Motor Control Pulse Input at Playback Mode	—
68	IN	D-PG	Drum Pulse Generator Input	—
69	IN	D-FG	Drum Frequency Generator Input	—
70	IN	C-FG	Capstan Frequency Generator Signal Input	—
71	OUT	D-CONT	Drum Motor Control Signal	—
72	OUT	C-CONT	Capstan Motor Control Signal	—
73				
74				
75				
76				
77	IN	CAS-S-INH	Cassette Loading Motion Inhibit by Start Sensor	L
78	—	VCC	+5V	—
79				
80				
81				
82	OUT	C-DRIVE	Capstan Motor Drive Signal Output (Rotation = "H"/Stop = "L")	H

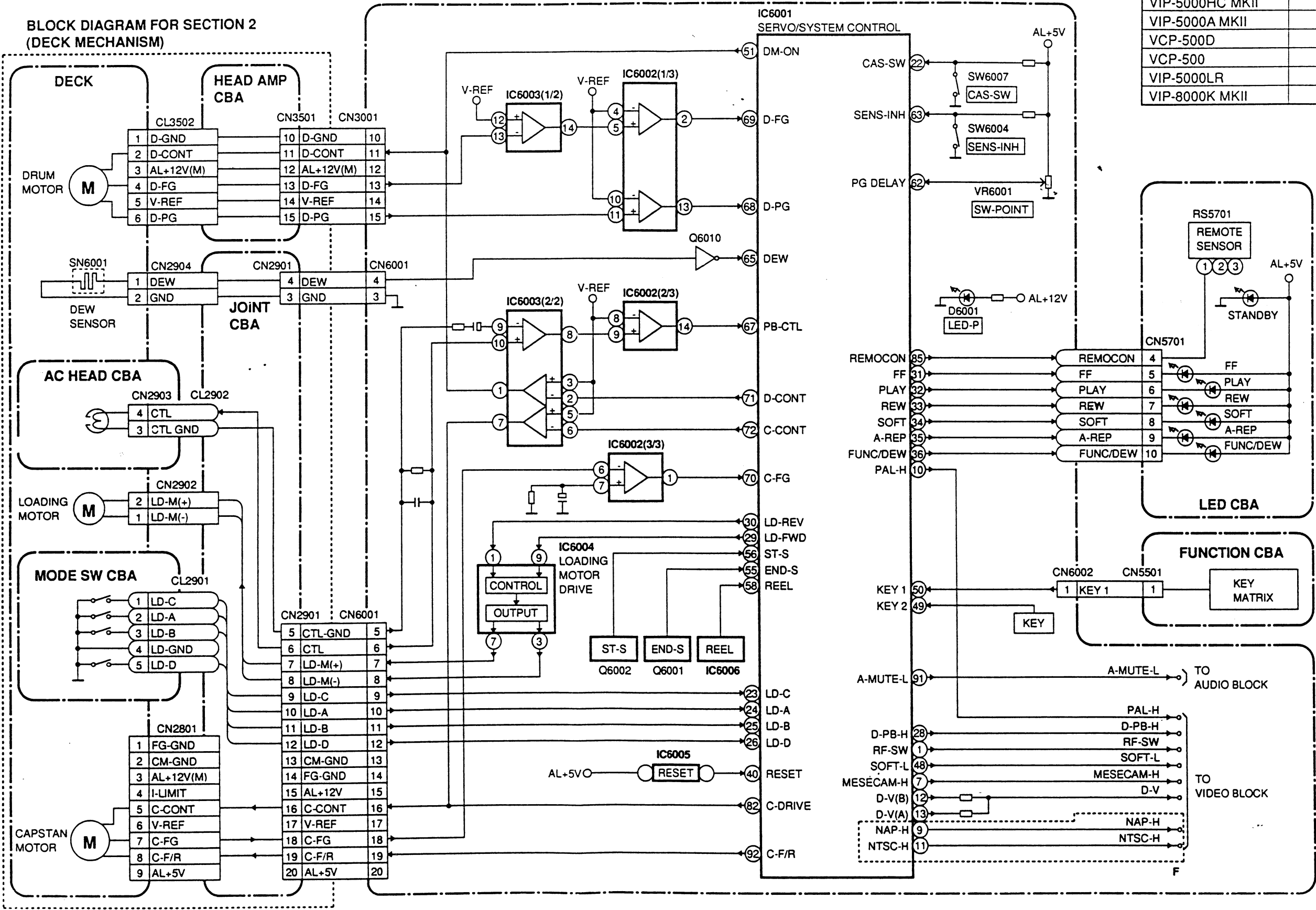
Pin No.	IN/OUT	Signal Name	Function	Active Level
83	–	D-H	Not Used	–
84				
85	IN	REMOCON	Remote Control Input Signal	H
86				
87				
88	–	VSS	GND	–
89	–	VSS	GND	–
90				
91	OUT	A-MUTE-L	Audio Mute Output (Mute = "L")	L
92	OUT	C-F/R	Capstan Motor FWD/REV Control Signal (FWD = "L"/REW = "H")	H/L
93				
94				
95				
96				
97	OUT	FAULT-CHK	SYS-CON Mecha Error Display	H
98	OUT	LED-P	Pulse Signal for ST/END sensor	–
99	OUT	EP-H	Tape Speed EP mode = "H" output	H
100	OUT	LP/EP-H	Tape Speed LP or EP mode = "H" output	H

BLOCK DIAGRAMS

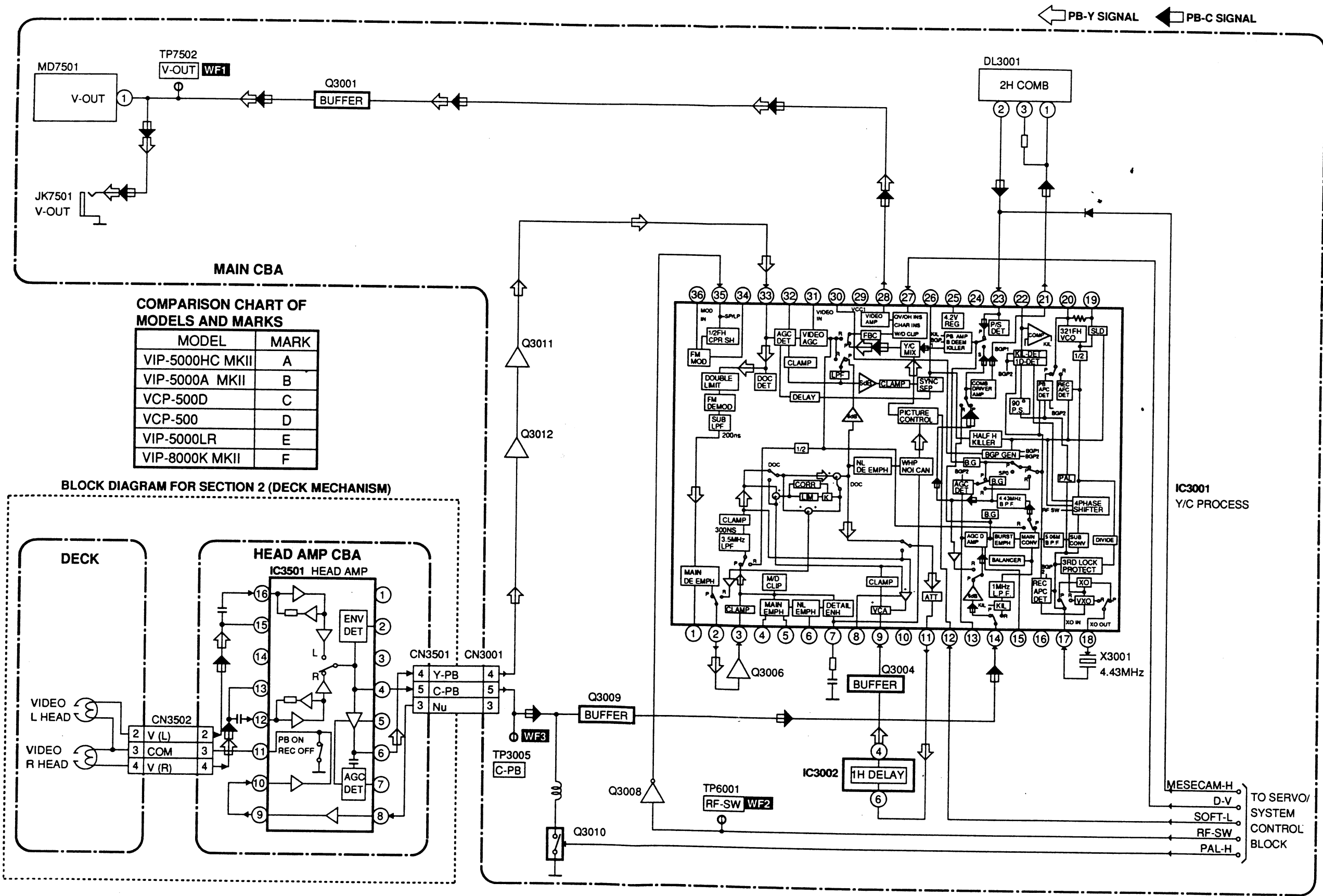
Servo/System Control (MODELS: A, B, C, D, F)

COMPARISON CHART OF MODELS AND TYPES

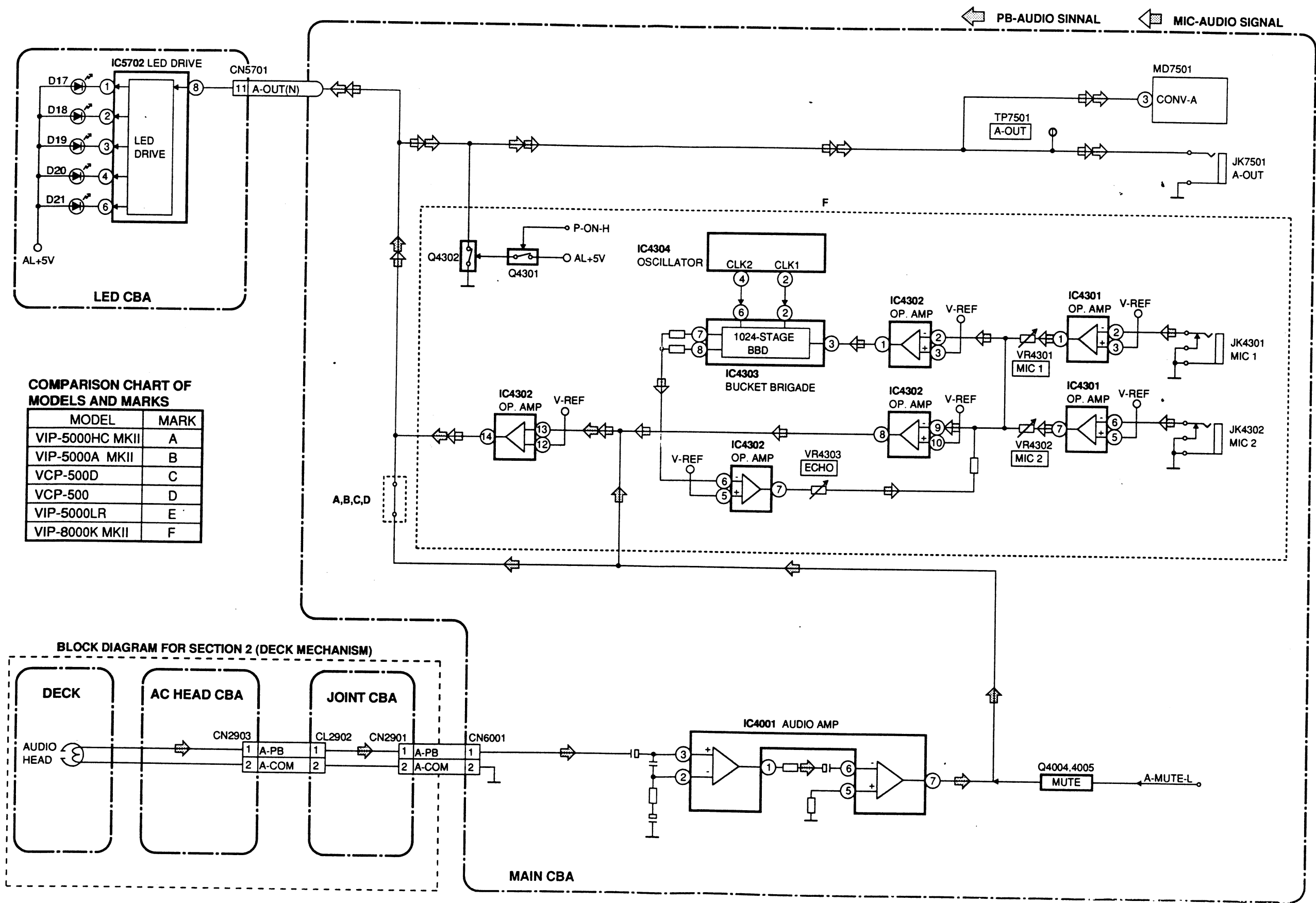
MODEL	MARK
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VIP-5000A MKII	B
VCP-500D	C
VCP-500	D
VIP-5000LR	E
VIP-8000K MKII	F



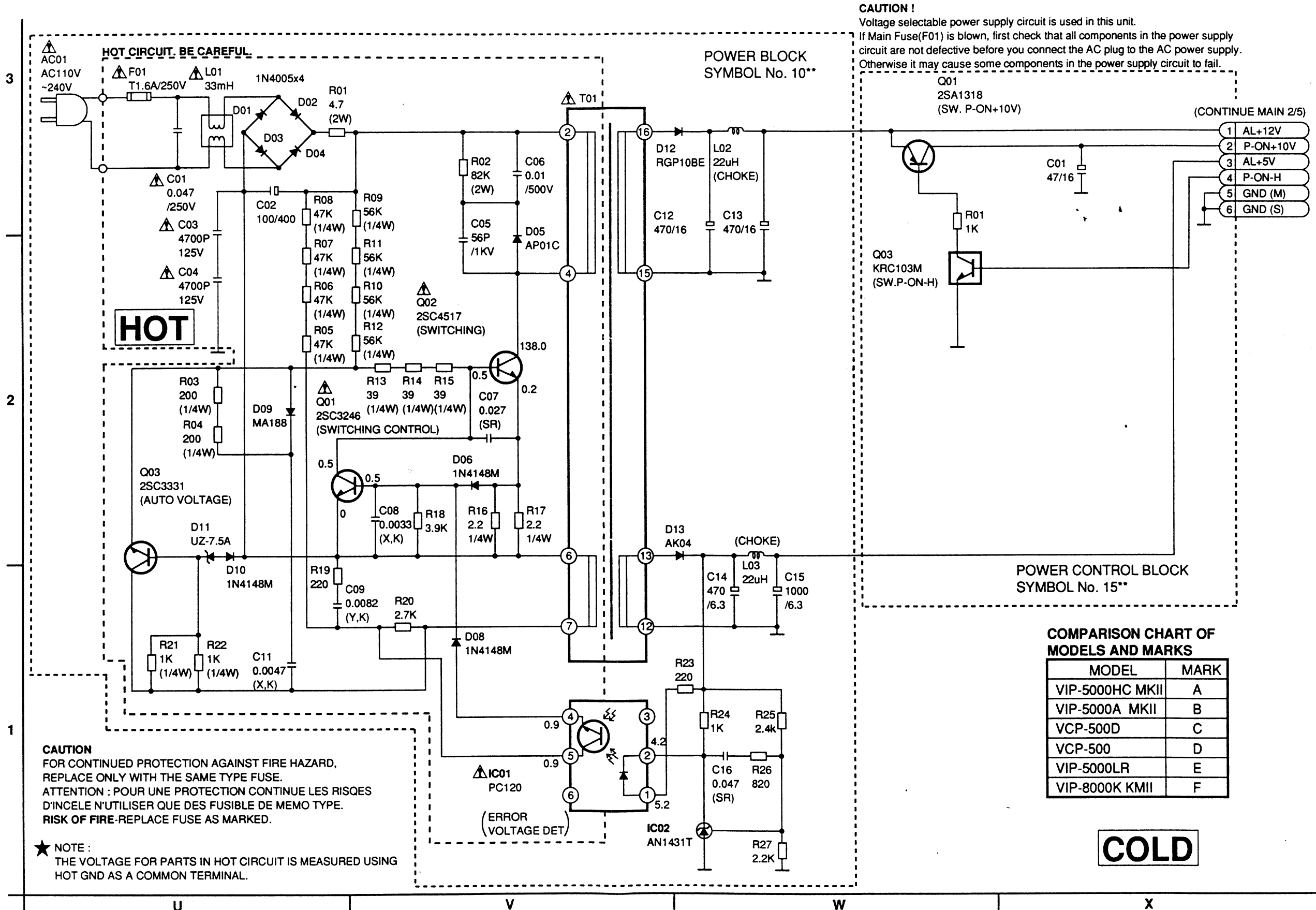
Video (MODELS: A, B, C, D)



Audio (MODELS: A, B, C, D, F)



Main 4/5 Schematic Diagram (MODELS: C, D)

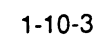


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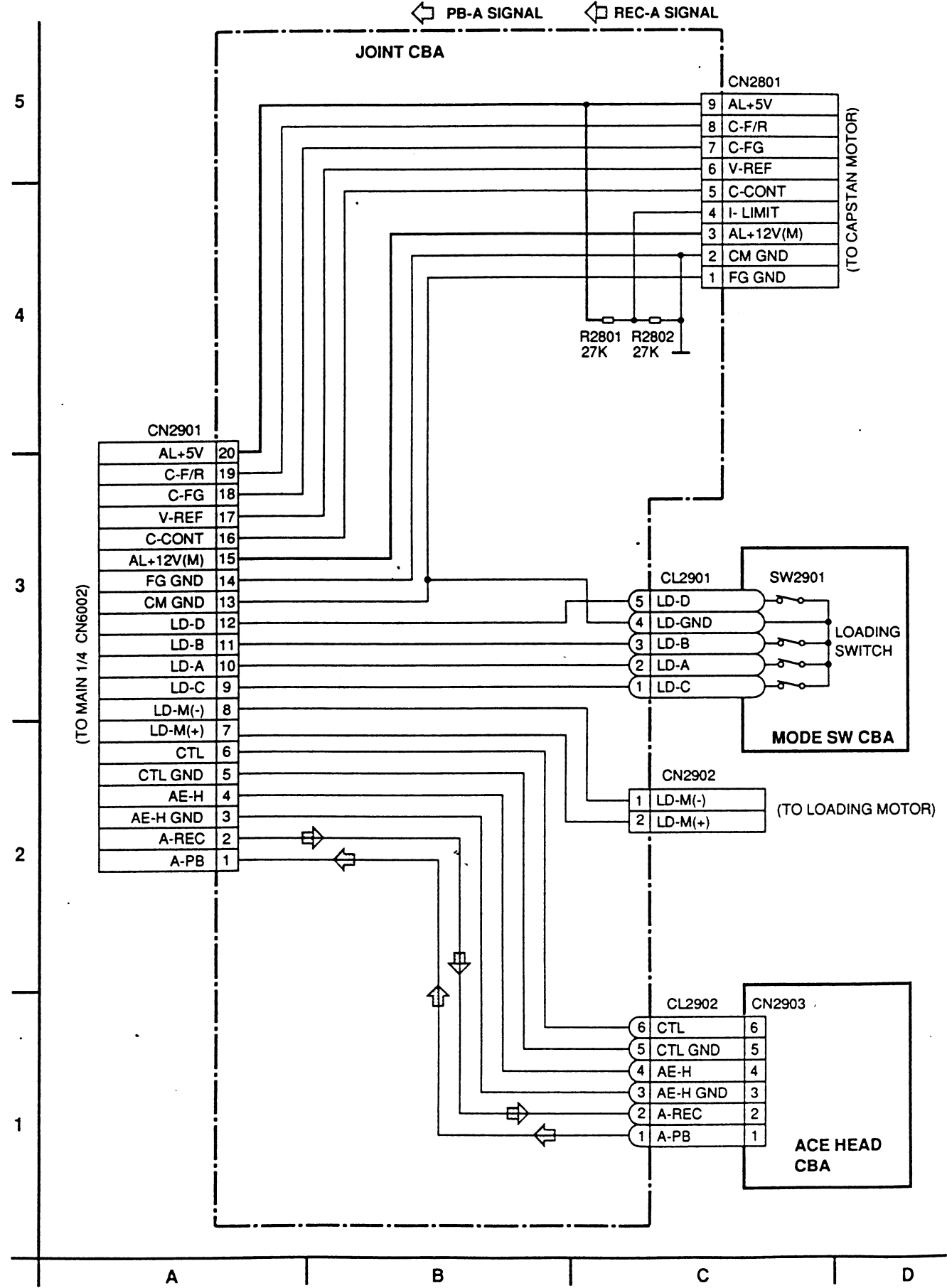




1. EJECT (POWER-OFF) → CASSETTE IN (POWER-ON) → STOP (B) → STOP (A) → PLAY → FS → PLAY → STILL (SLOW) → PLAY → STOP (B)



JOINT / MODE SW / ACE HEAD Schematic Diagrams



Head Amp Schematic Diagram (MODELS: A, B, C, D, F)

