

FUNAI

SERVICE MANUAL

Sec. 1: Main Block

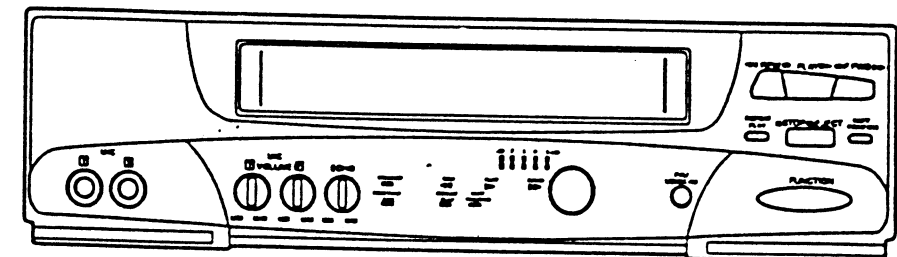
Specifications
Preparation for Servicing
Adjustment Procedures
Schematic Diagrams
CBA's
Exploded Views
Parts List

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

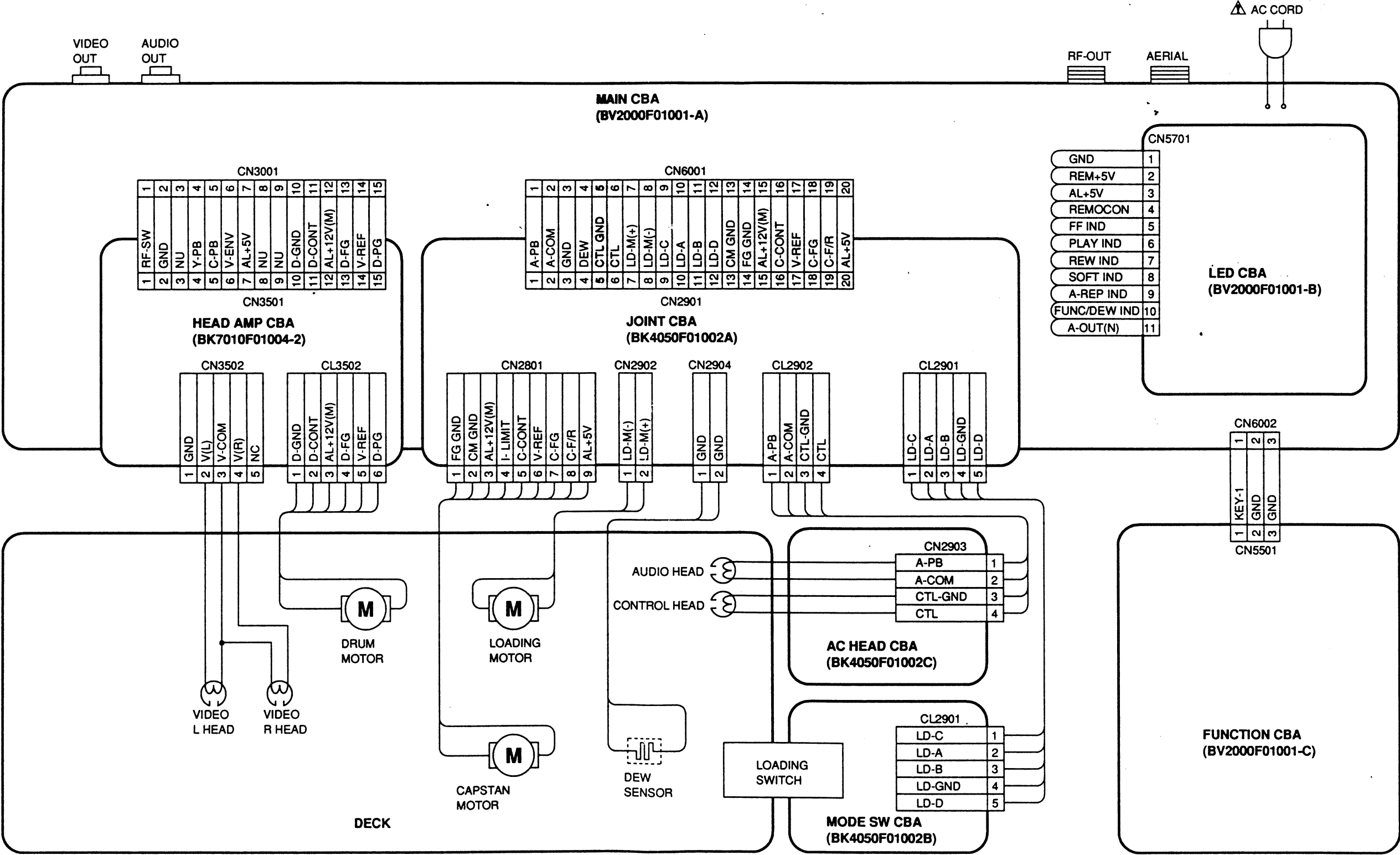
VIP-8000K MKII



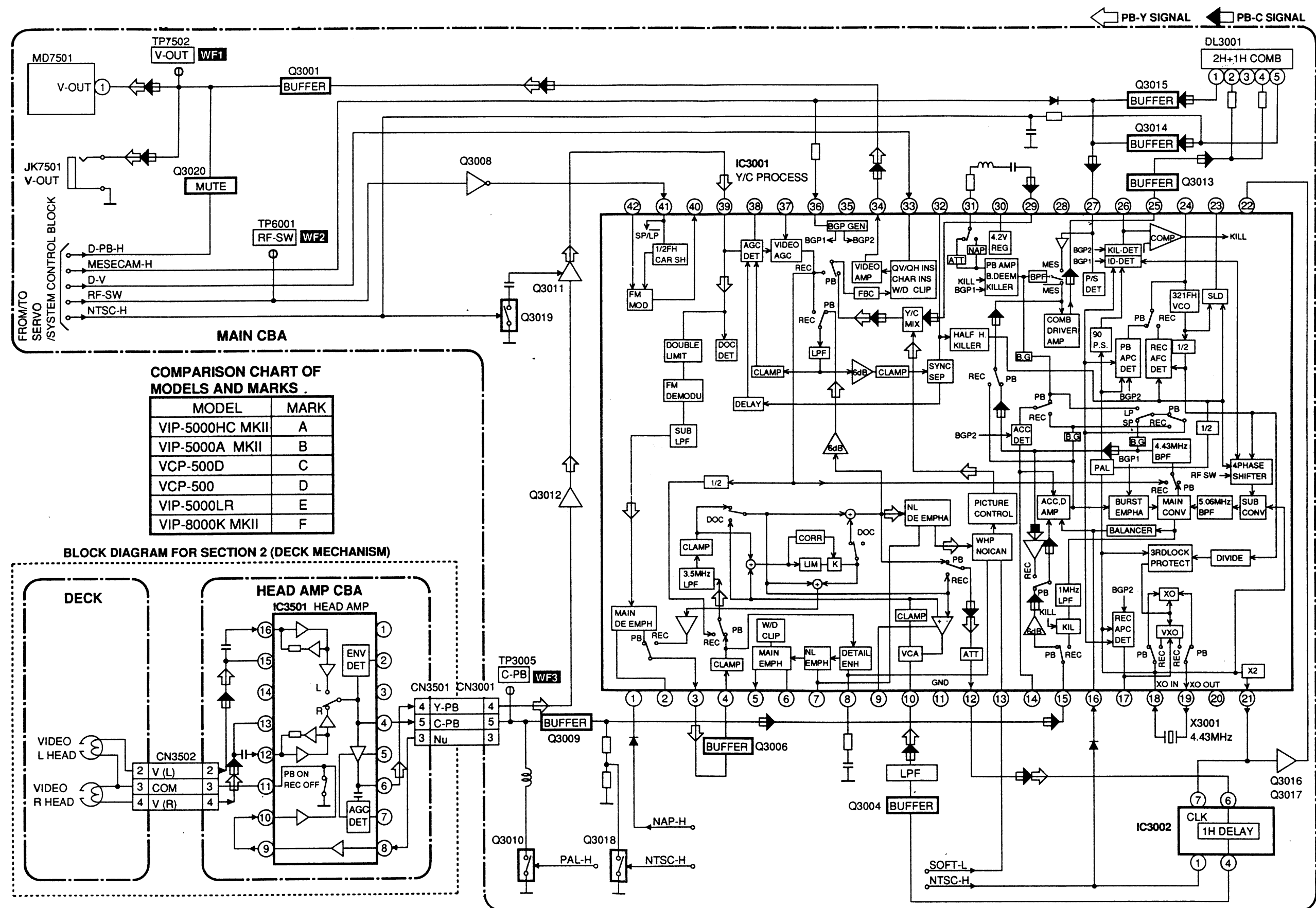
VHS
PAL

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



Video (MODEL: F)

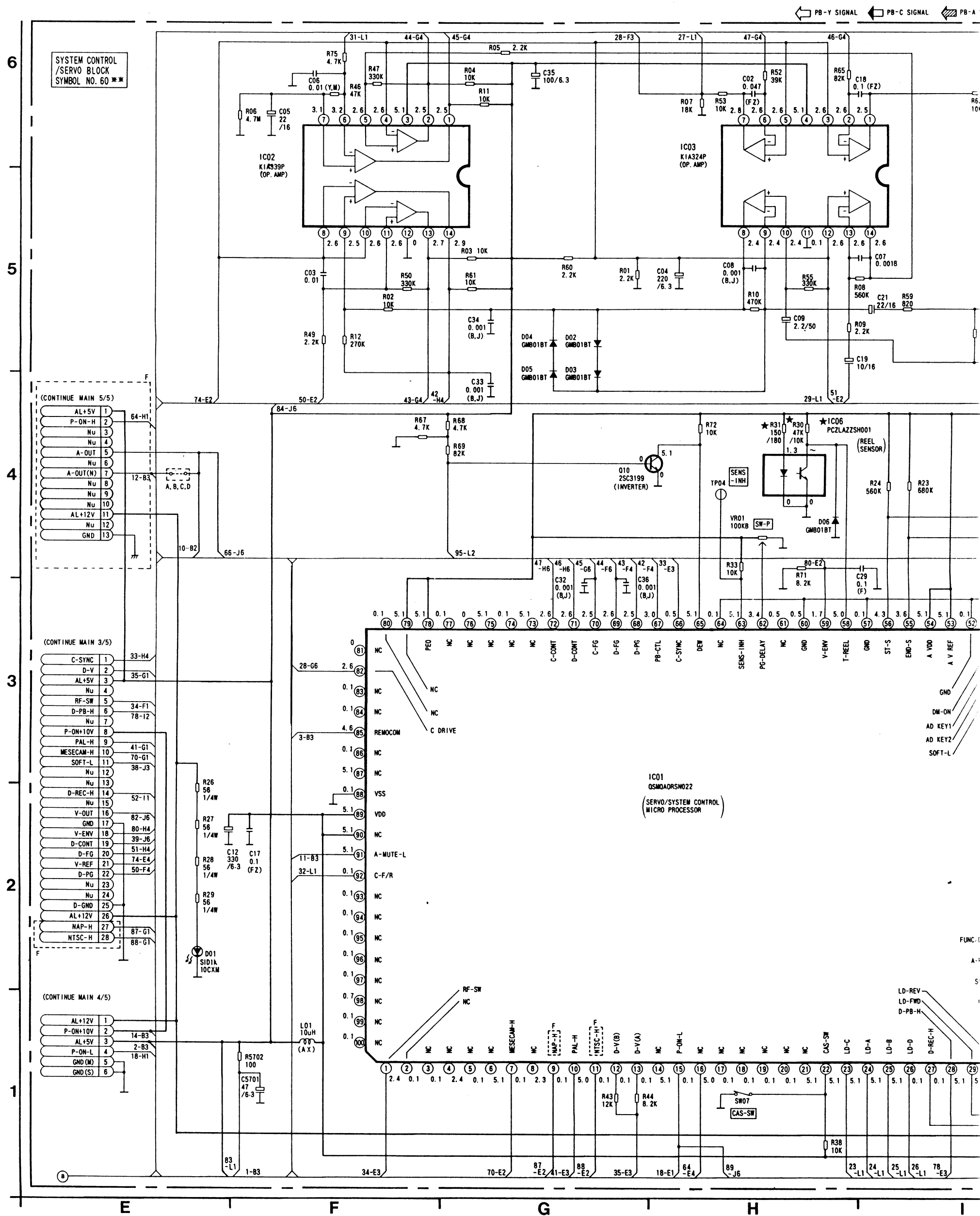


COMPARISON CHART OF MODELS AND TYPES

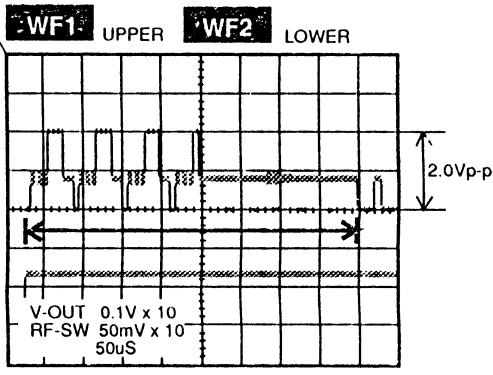
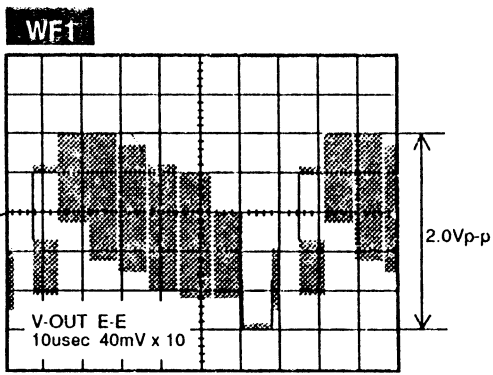
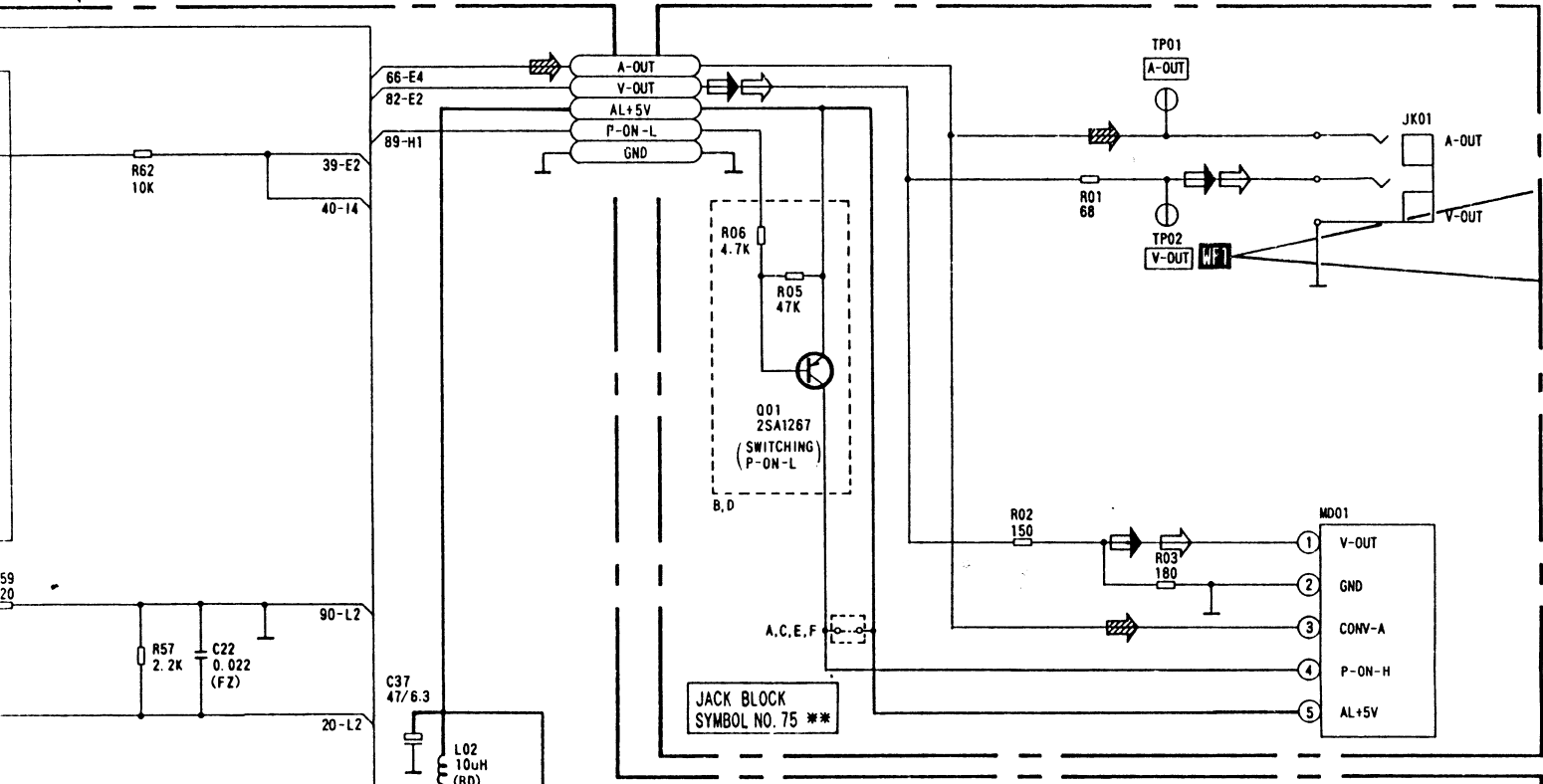
MODEL	MARK
VIP-5000HC MKII	A
VIP-5000A MKII	B
VCP-500D	C
VCP-500	D
VIP-5000LR	E
VIP-8000K MKII	F



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

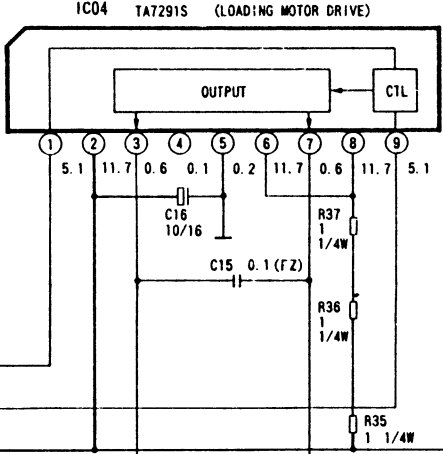
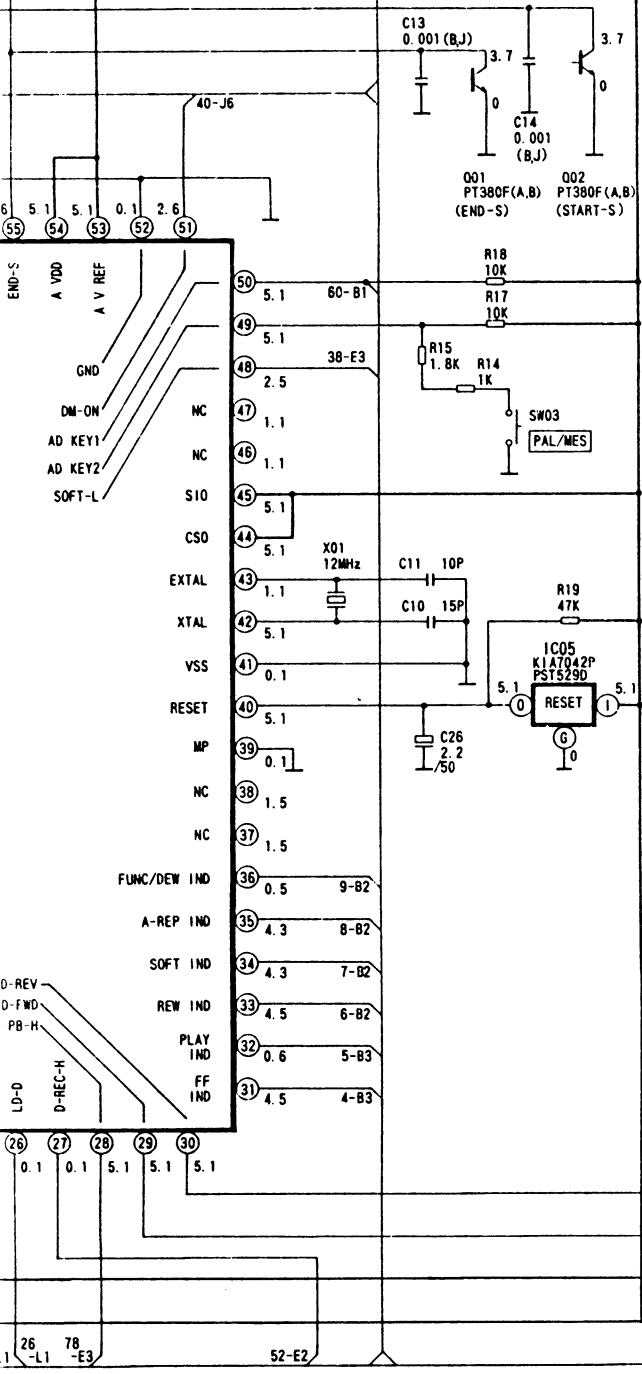


SIGNAL PB-A SIGNAL



★Chart for use of Reel Sensor

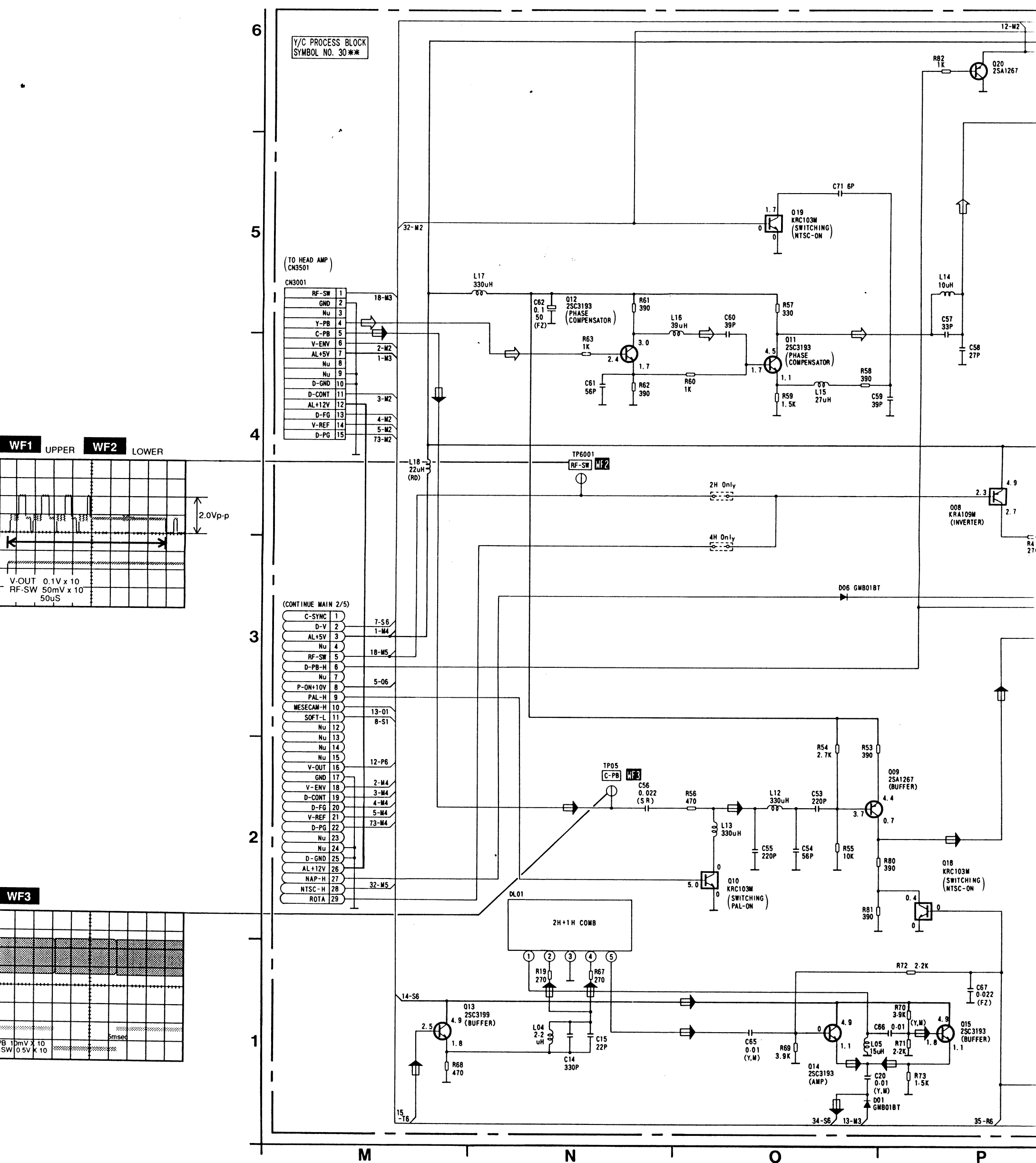
Ref No.	Part No.	Part No.
IC6006	GP1S36	SG-211L
R6030	47K	10K
R6031	150Ω	180Ω



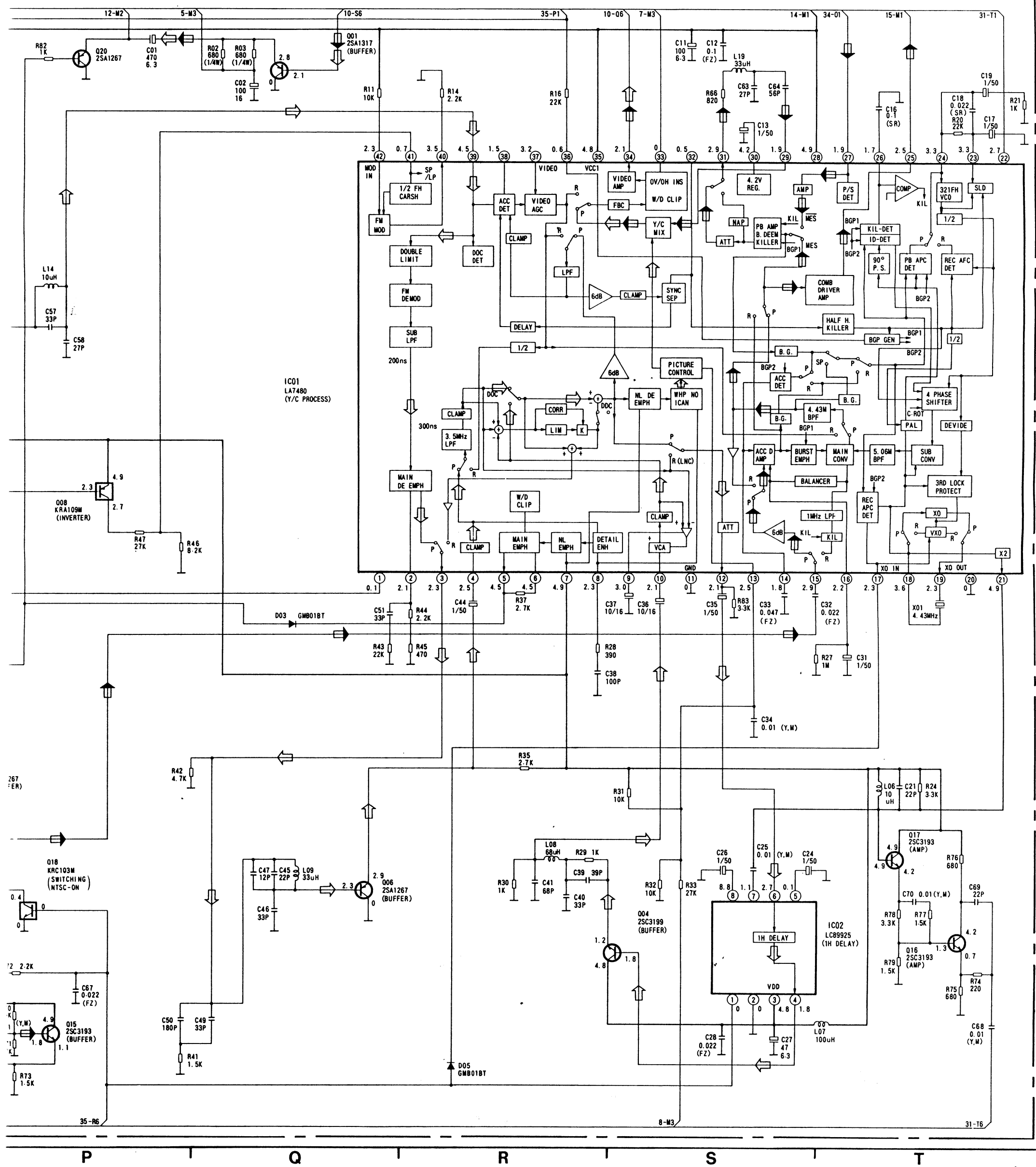
(TO JOINT CBA)
CN2901
CN6001

13-B3	1 A-PB
	2 A-COM
	3 GND
95-G4	4 DEW
90-J5	5 CTL GND
20-J4	6 CTL
21-K1	7 LD-M (+)
22-K1	8 LD-M (-)
23-H1	9 LD-C
24-I1	10 LD-A
25-I1	11 LD-B
26-I1	12 LD-D
	13 CM GND
	14 FG GND
	15 AL+12V
27-H6	16 C-CONT
29-H4	17 V-REF
31-F6	18 C-FG
32-F2	19 C-F/R
	20 AL+5V

Main 3/5 Schematic Diagram (MODEL: F)



PB-Y SIGNAL PB-C SIGNAL

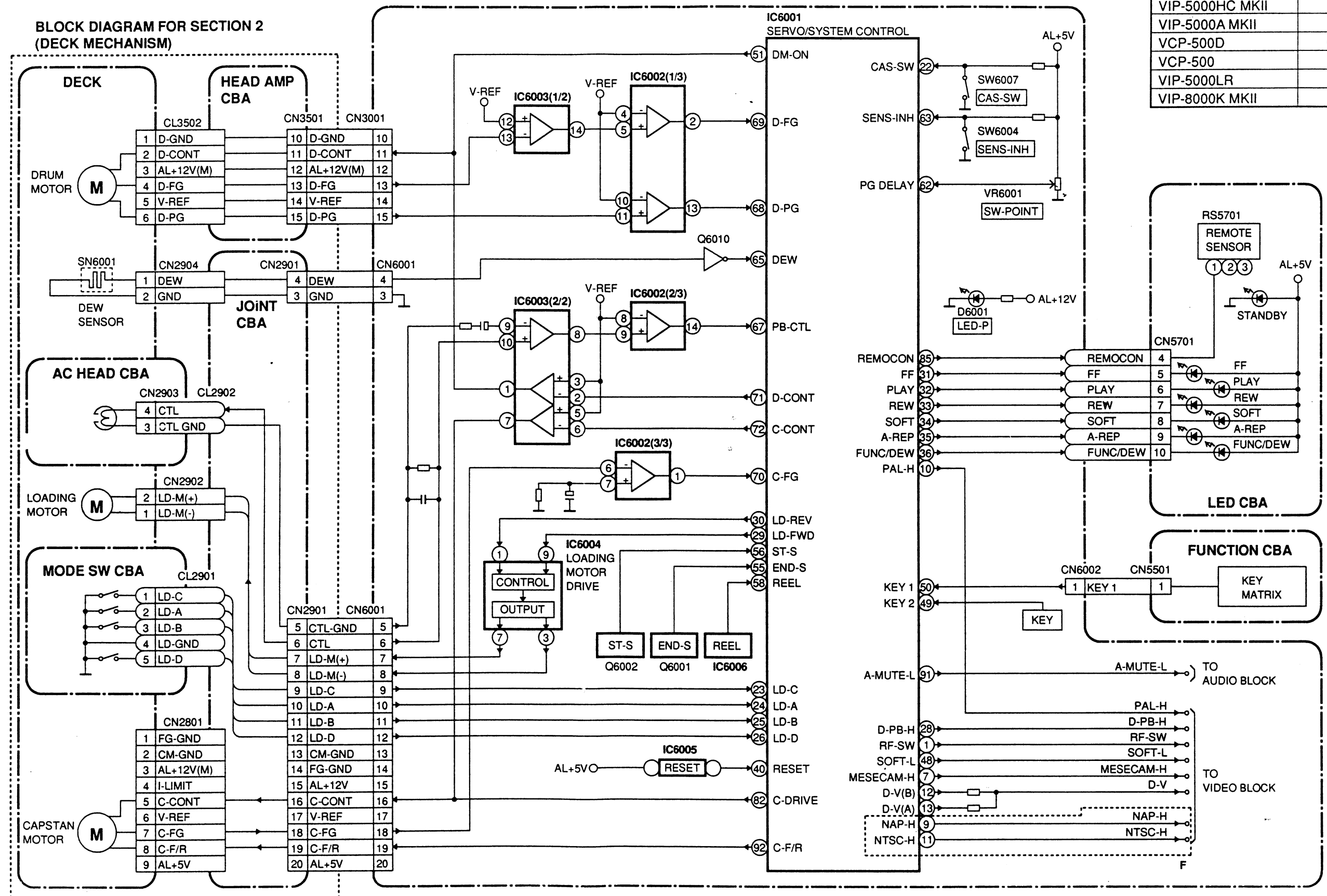


BLOCK DIAGRAMS

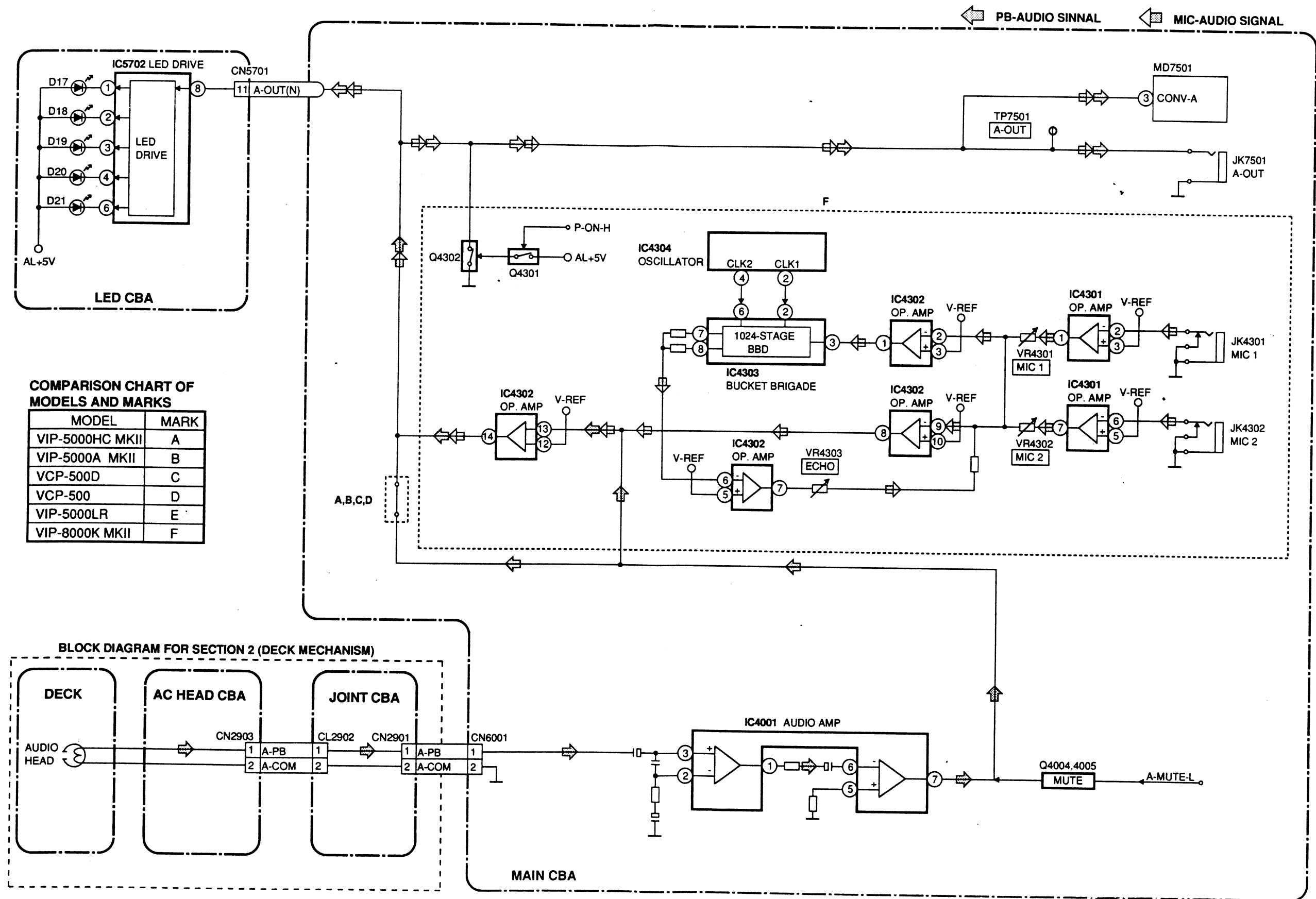
Servo/System Control (MODELS: A, B, C, D, F)

COMPARISON CHART OF
MODELS AND TYPES

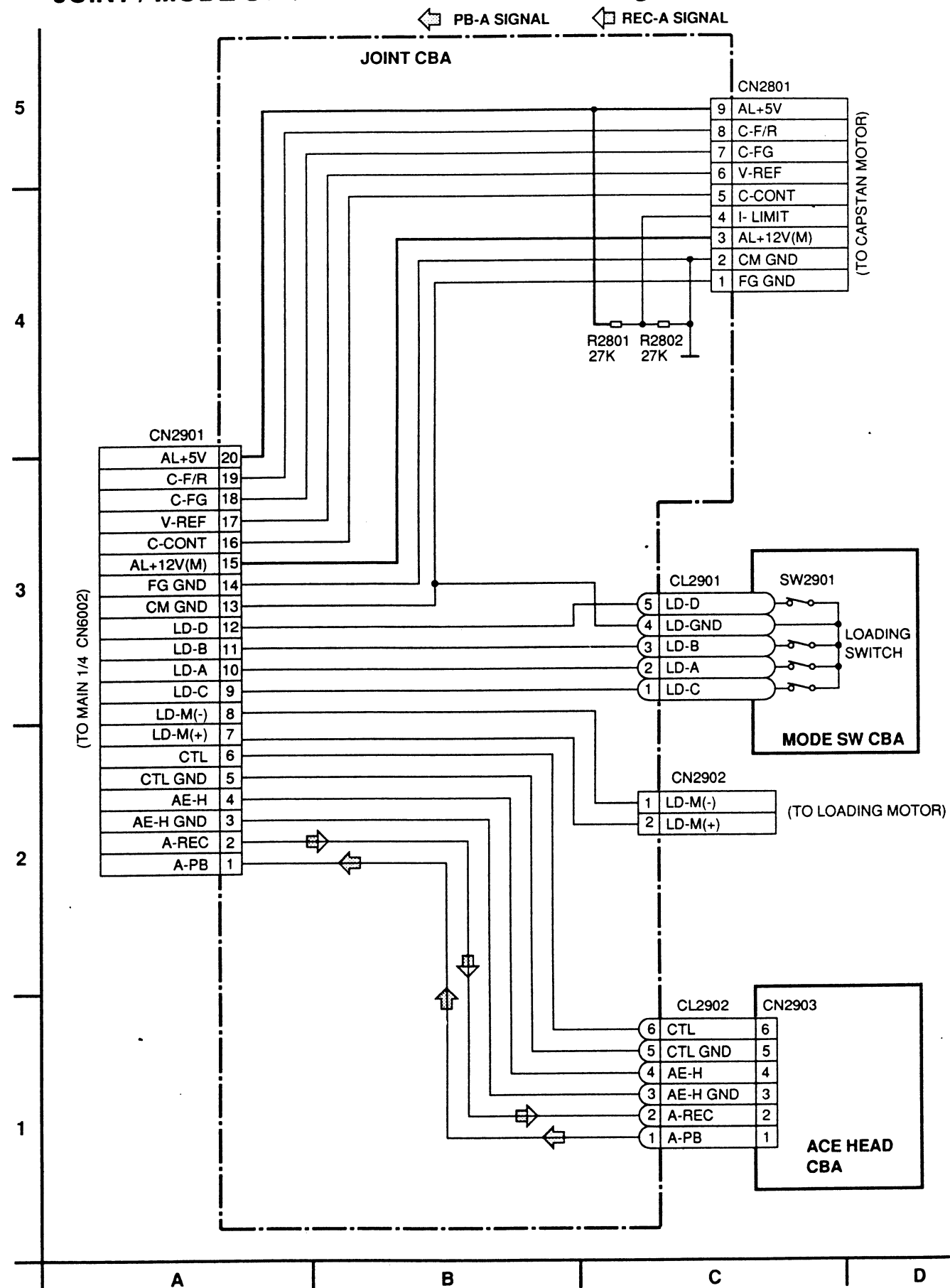
MODEL	MARK
VIP-5000HC MKII	A
VIP-5000A MKII	B
VCP-500D	C
VCP-500	D
VIP-5000LR	E
VIP-8000K MKII	F



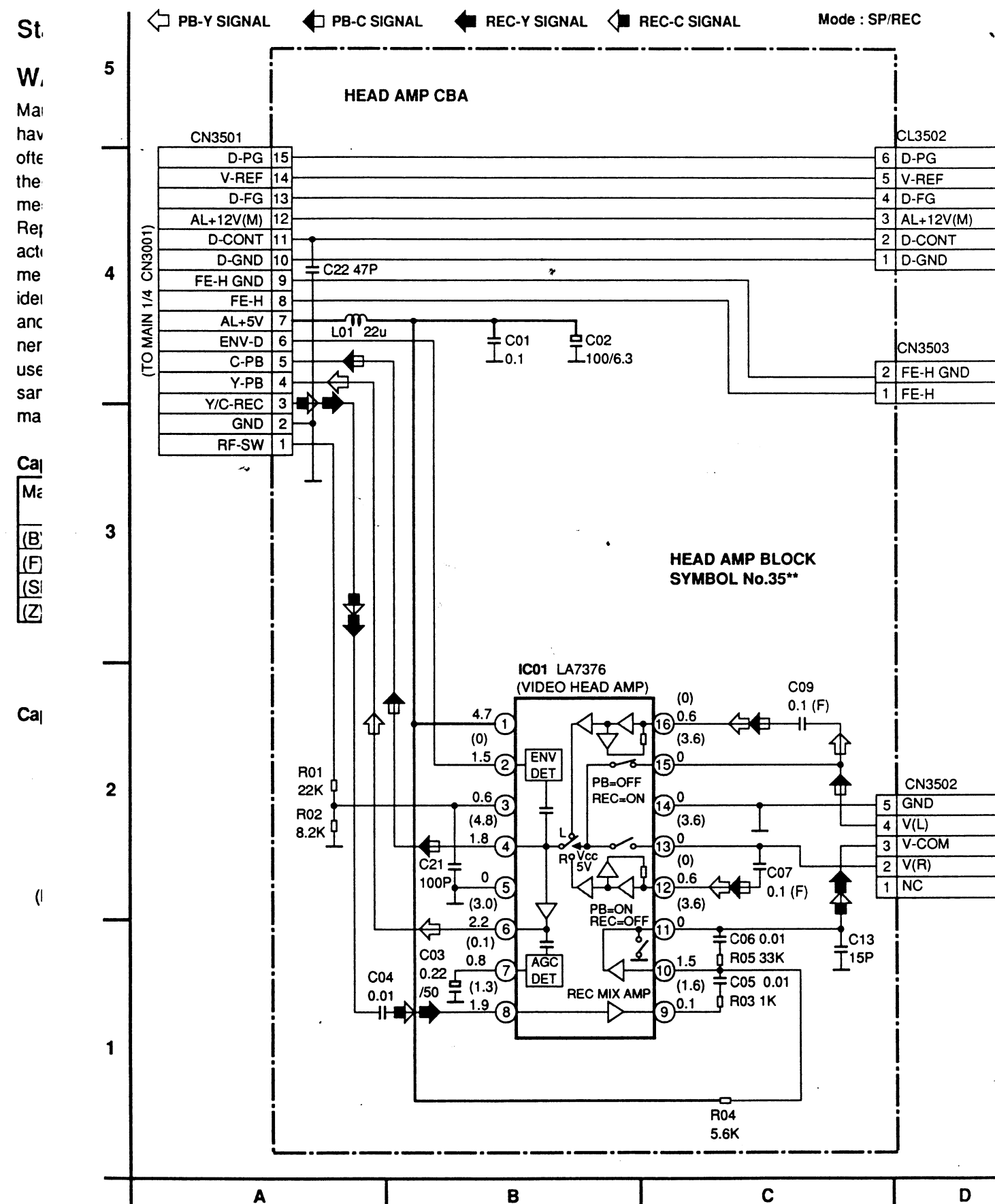
Audio (MODELS: A, B, C, D, F)

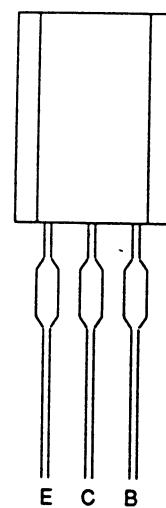
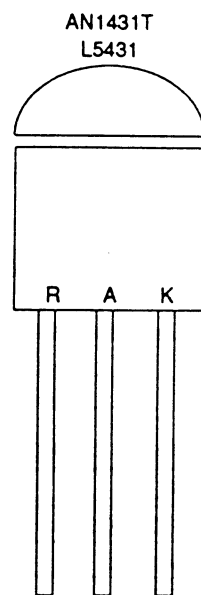
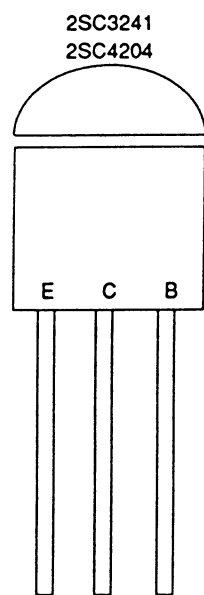
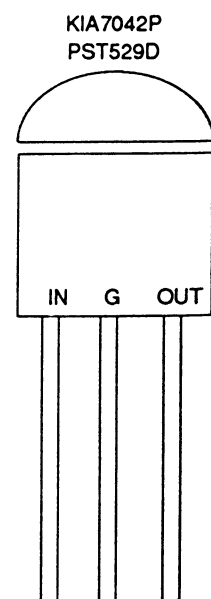


JOINT / MODE SW / ACE HEAD Schematic Diagrams

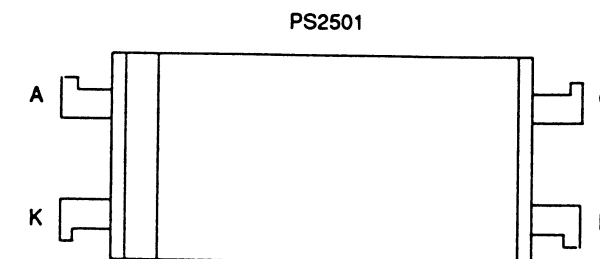
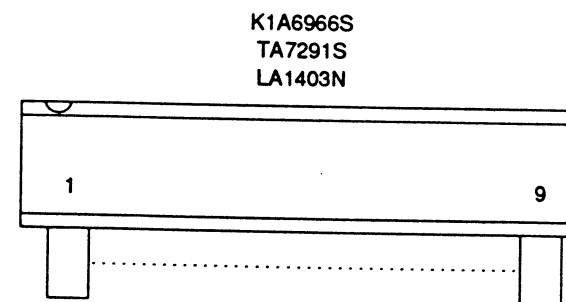
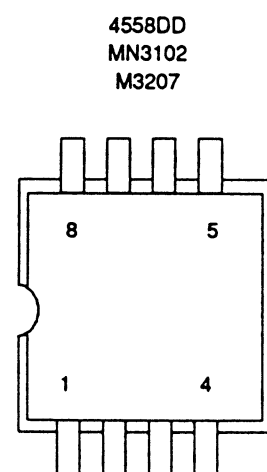
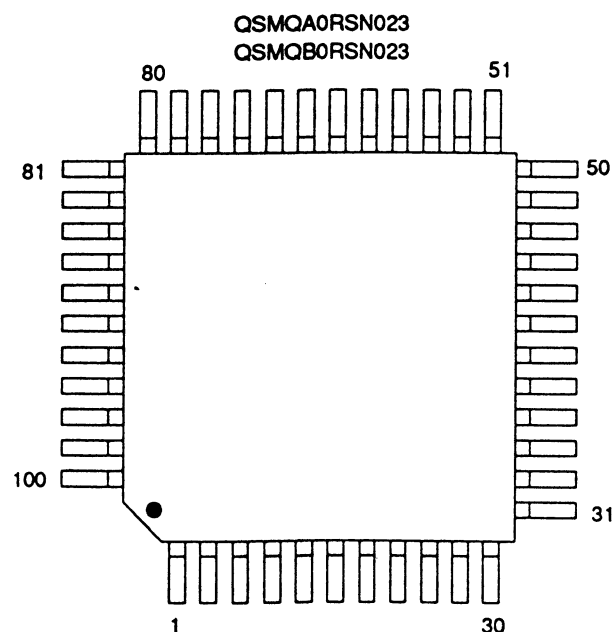
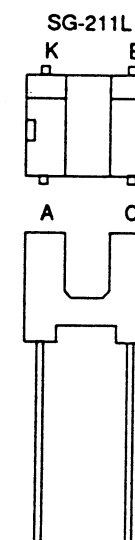
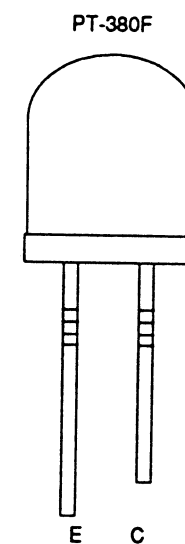
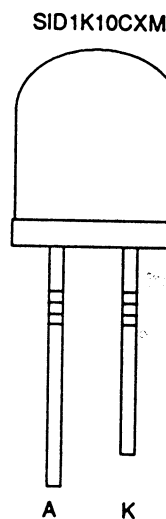
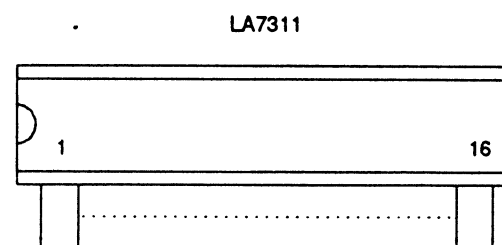
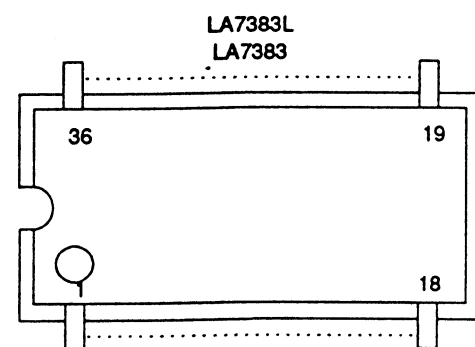
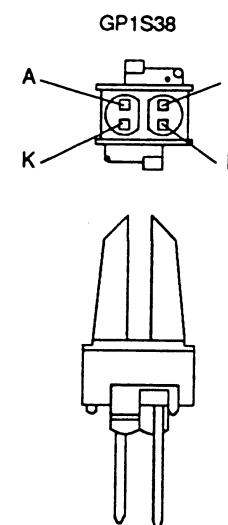
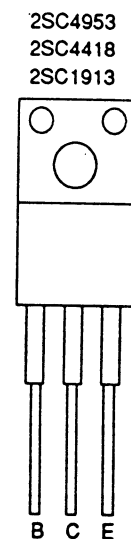


Head Amp Schematic Diagram (MODELS: A, B, C, D, F)





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



LEAD IDENTIFICATIONS

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)

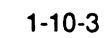
"H" ≥ 4.6, "L" ≤ 0.5

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

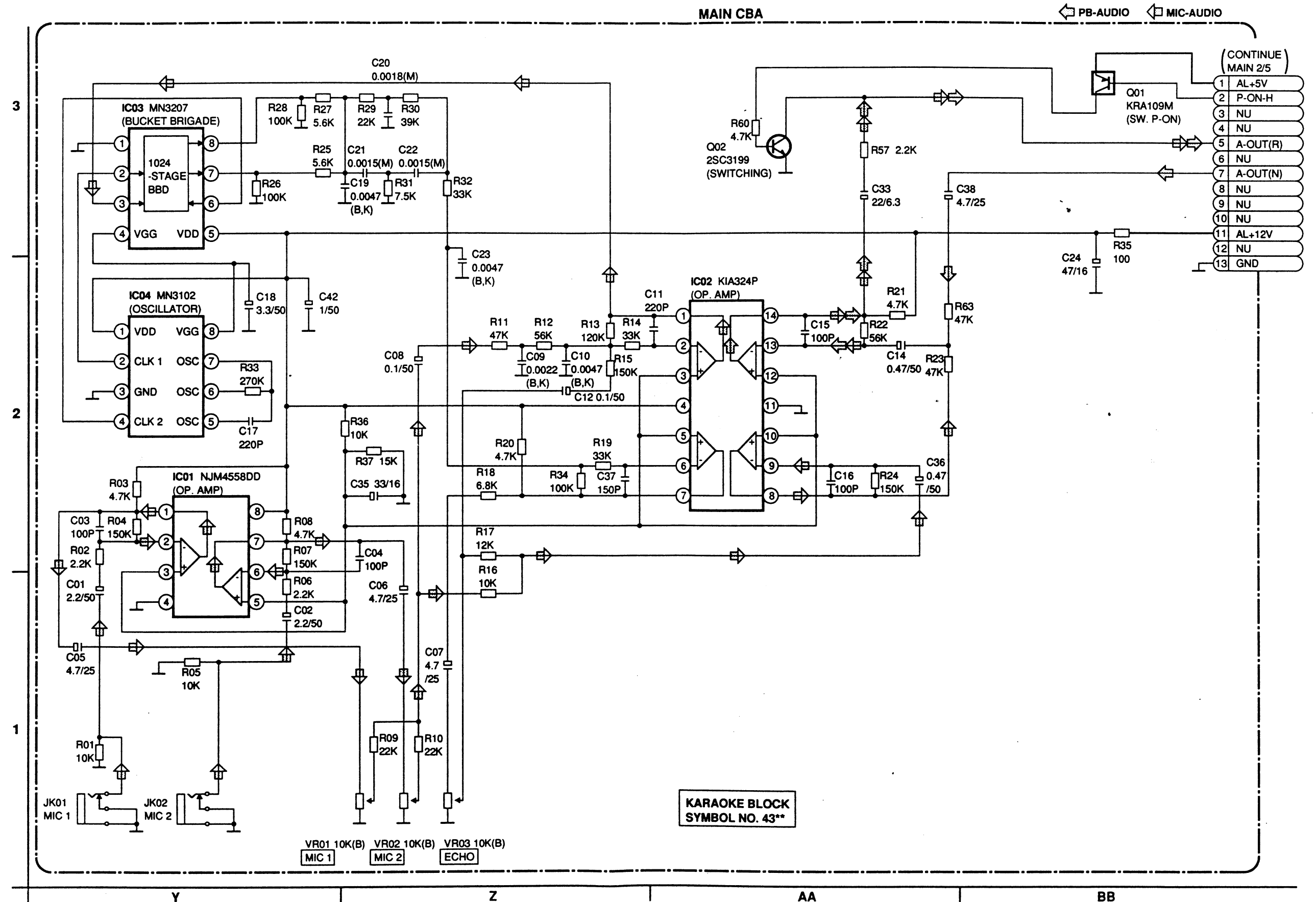
Pin No.	IN/OUT	Signal Name	Function	Active Level
35	OUT	A-REPEAT-IND	Auto Repeat Mode Display Output	L
36	OUT	Power/DEW-IND	Power-ON Mode Display Output/Dew mode Display Output (LED Flashing)	L
37				
38				
39				
40	IN	RESET	System Reset Signal (Usually = "H"/Reset = "L")	L
41	-	VSS	Digital Power GND	-
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

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



Main 5/5 Schematic Diagrams (MODEL: F)



CAUTION
FOR CONTINUED PROTECTION AGAINST FIRE HAZARD,
REPLACE ONLY WITH THE SAME TYPE FUSE.
ATTENTION : POUR UNE PROTECTION CONTINUE LES RISQUES
D'INCELE N'UTILISER QUE DES FUSIBLE DE MEMO TYPE.
RISK OF FIRE-REPLACE FUSE AS MARKED.

★ **NOTE :**
THE VOLTAGE FOR PARTS IN HOT CIRCUIT IS MEASURED USING
HOT GND AS A COMMON TERMINAL.

HOT CIRCUIT. BE CAREFUL.

HOT

POWER BLOCK
SYMBOL No. 10**

Voltage selectable power supply circuit is used in this unit.
If Main Fuse(F01) is blown, first check that all components in the power supply
circuit are not defective before you connect the AC plug to the AC power supply.
Otherwise it may cause some components in the power supply circuit to fail.

POWER CONTROL BLOCK
SYMBOL No. 15**

**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

COLD