

MAIN I (SYSTEM CONTROL/ SERVO) SCHEMATIC DIAGRAM

NOTE: For placing a purchase order of the parts,
be sure to use the part number listed in the parts list.
Do not use the part number on this diagram.

NOTE:
FOR SCHEMATIC DIAGRAM AND CIRCUIT BOARD LAYOUT NOTES,
REFER TO BEGINNING OF SCHEMATIC SECTION.

COMPARISON CHART OF MODELS & MARKS	
MODEL	MARK
PV-V4022-K	A
PV-V4522-K	B
PV-V462	C
PV-V4602	D
PV-V4612S	E
PV-V4612-K	F
PV-V4622	G
Not used	PT

KEY VOLTAGE CHART (SW6303, 6304, 6305, 6310, 6311, 6314, 6315, 6317)				
TERMINAL VOLTAGE	0V ~ 0.6V	0.7V ~ 1.9V	2.0V ~ 3.1V	3.2V ~ 4.4V
KEY DATA1 (PIN 89)	-----	REW	FF	-----
KEY DATA2 (PIN 88)	-----	STOP/EJECT	PLAY	-----
KEY DATA3 (PIN 87)	CH DOWN	-----	-----	-----
KEY DATA4 (PIN 86)	REC	CH UP	-----	POWER

KEY VOLTAGE CHART (SW6301, 6303, 6304, 6305, 6306, 6307, 6312, 6314, 6316)				
TERMINAL VOLTAGE	0V ~ 0.6V	0.7V ~ 1.9V	2.0V ~ 3.1V	3.2V ~ 4.4V
KEY DATA1 (PIN 89)	-----	REC	STOP/EJECT	-----
KEY DATA2 (PIN 88)	-----	REW	PLAY	FF
KEY DATA3 (PIN 87)	CH DOWN	-----	-----	-----
KEY DATA4 (PIN 86)	TV/VCR	CH UP	-----	POWER

KEY VOLTAGE CHART (SW6303, 6304, 6305, 6306, 6311, 6314, 6315, 6317)				
TERMINAL VOLTAGE	0V ~ 0.6V	0.7V ~ 1.9V	2.0V ~ 3.1V	3.2V ~ 4.4V
KEY DATA1 (PIN 89)	-----	-----	STOP/EJECT	-----
KEY DATA2 (PIN 88)	-----	REW	PLAY	FF
KEY DATA3 (PIN 87)	CH DOWN	-----	-----	-----
KEY DATA4 (PIN 86)	REC	CH UP	-----	POWER

※1 Microcontroller IC (IC6001) and EEPROM IC (IC6005)
replacement note for PV-V4022-K and PV-V4522-K:
In early units, MN101D06FPK is used for Microcontroller IC (IC6001).
In later units, MN101D09EPA is used for Microcontroller IC (IC6001).
Please note that only MN101D09EPA is supplied as a replacement
part and this can be used with both types of EEPROM IC (IC6005).
When replacing EEPROM IC (IC6005), be sure to confirm which type
of Microcontroller IC (IC6001) is used on the unit you are servicing and
install the proper part for EEPROM IC (IC6005).

	Microcontroller IC (IC6001)	EEPROM IC (IC6005)
Early Unit	MN101D06FPK	LSE00642
Later Unit	MN101D09EPA	KS24C011CS or AT24C01A10SI or C0ZBZ0000015 or C3EBCC000038 or KS24C011IS or M24C01-MN6

MODE SELECT SWITCH

PIN NO. OF IC6001	A	B	C
MODE	(97)	(96)	(95)
FF/REW	H	H	L
BRAKE	L	H	H
PLAY/CUE/SLOW/STILL	L	H	L
REVIEW	H	L	L
STANDBY/STOP	H	L	H
CASSETTE DOWN	L	L	H
EJECT	L	L	L

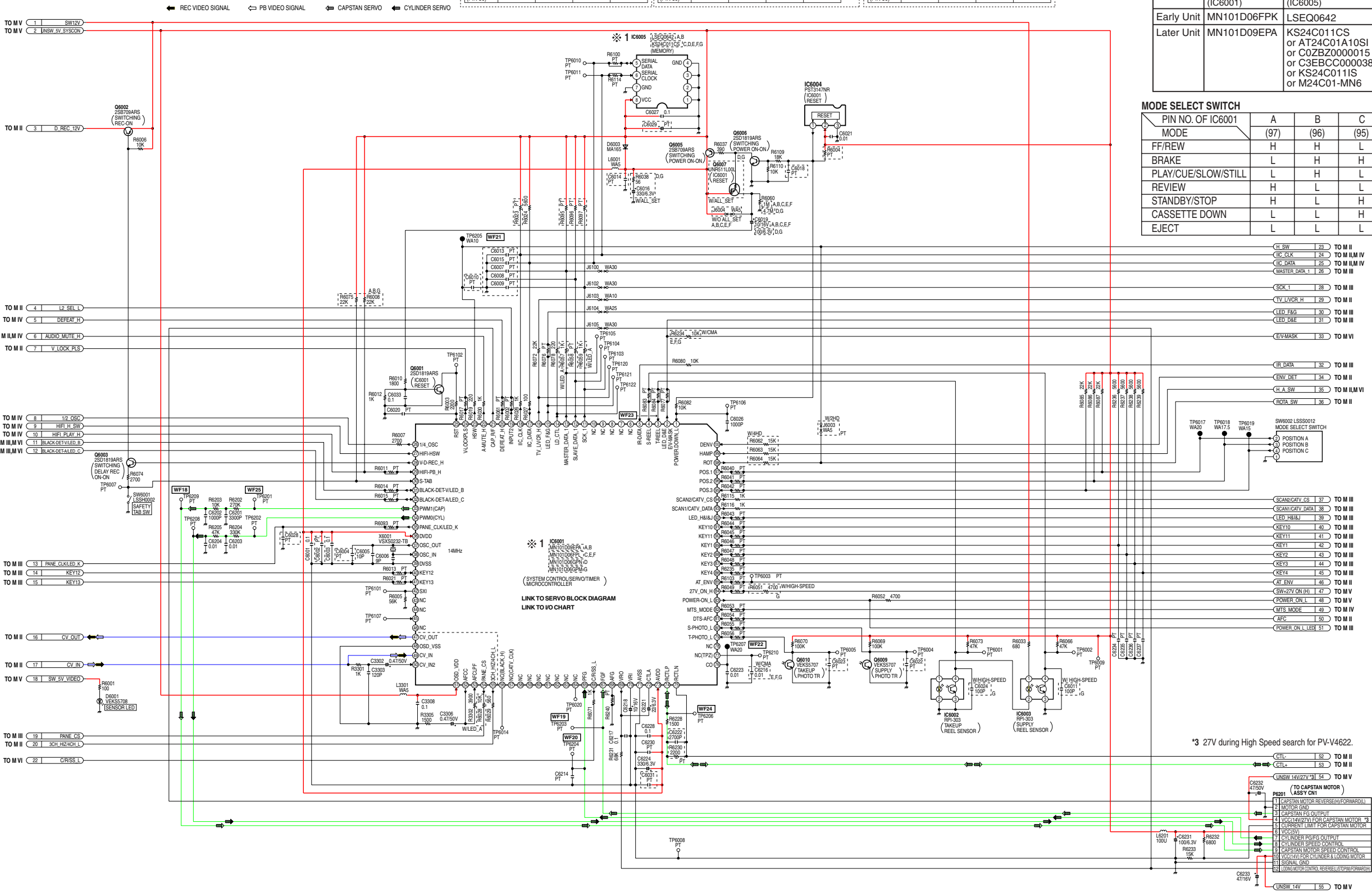
H. SW	23	TO M II
IC CLK	24	TO M ILM IV
IC DATA	25	TO M ILM IV
MASTER DATA 1	26	TO M III
SKC 1	28	TO M III
TV LVCR. H	29	TO M II
LED F&G	30	TO M III
LED D&E	31	TO M III
E.V. MASK	33	TO M VI
IR DATA	32	TO M III
ENV. DET	34	TO M II
H. A. SW	35	TO M ILM VI
ROTA SW	36	TO M II

SCAN2/CATV. CS	37	TO M III
SCAN1/CATV. DATA	38	TO M III
LED H&I	39	TO M III
KEY10	40	TO M III
KEY11	41	TO M III
KEY1	42	TO M III
KEY2	43	TO M III
KEY3	44	TO M III
KEY4	45	TO M III
AT ENV	46	TO M II
SW-27V ON (H)	47	TO M V
POWER ON L	48	TO M V
MTS. MODE	49	TO M IV
AFC	50	TO M II
POWER ON L LED	51	TO M III

*3 27V during High Speed search for PV-V4622.

CTL-	52	TO M II
CTL+	53	TO M II
UNSW 14V/27V *3	54	TO M V
(TO CAPSTAN MOTOR)		
P6201	ASSY CN1	
1	CAPSTAN MOTOR REVERSE/FORWARD	
2	MOTOR GND	
3	CAPSTAN FG OUTPUT	
4	VCC14V/27V FOR CAPSTAN MOTOR *3	
5	CURRENT LIMIT FOR CAPSTAN MOTOR	
6	VCC5V	
7	CYLINDER P&F&G OUTPUT	
8	CYLINDER SPEED CONTROL	
9	CAPSTAN MOTOR SPEED CONTROL	
10	VCC14V FOR CYLINDER & LOADING MOTOR	
11	SIGNAL GND	
12	LODING MOTOR CONTROL REVERSE/STOP/FORWARD	

LSJB2006
PV-V4022-K/PV-V4522-K
/PV-V462/PV-V4602
/PV-V4612S/PV-V4612-K/PV-V4622
MAIN I (SYSTEM CONTROL
/SERVO) SCHEMATIC DIAGRAM

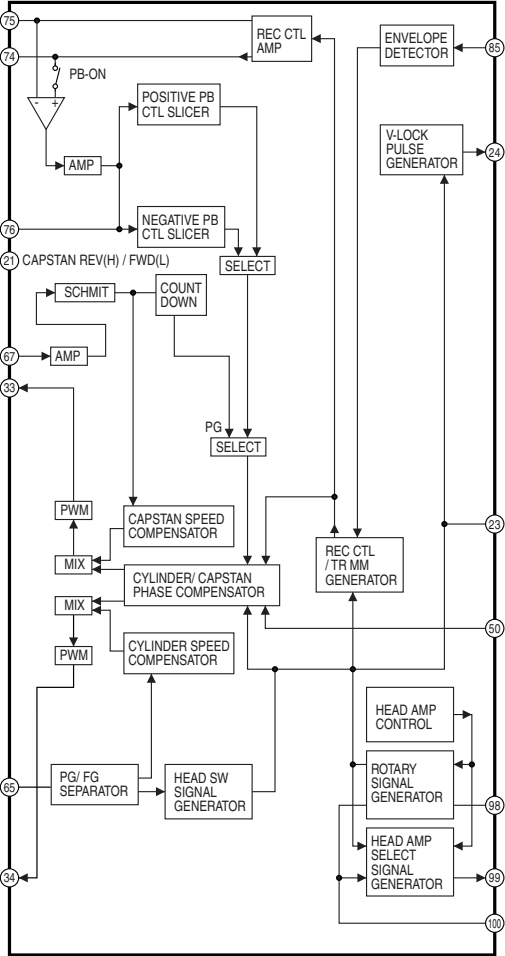


I/O CHART OF IC6001

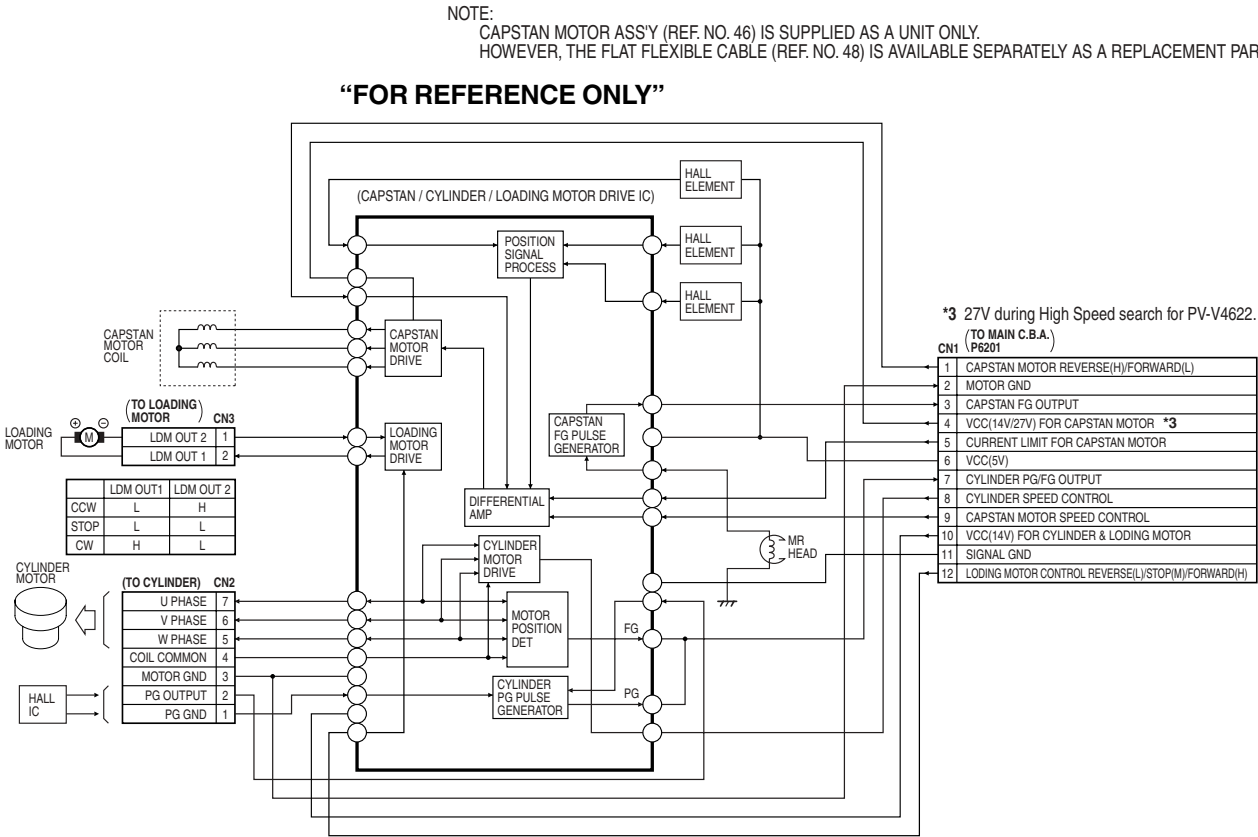
Pin No.	I/O	Signal Name	Description
1	I	POWER_DOWN_L	POWER DOWN(L)
2	O	E/V-MASK	REW LED ON(H)/E/V-MASK
3	I	T-REEL	TAKEUP REEL PULSE
4	I	S-REEL	SUPPLY REEL PULSE
5	I	IR-DATA	IR-DATA
6	-	NC	(Not used)
7	-	NC	(Not used)
8	-	NC	(Not used)
9	-	NC	(Not used)
10	-	NC	(Not used)
11	O	SCK_1	SERIAL CLOCK 1
12	O	SLAVE_DATA_1	SERIAL DATA 1
13	O	MASTER_DATA_1	SERIAL DATA 0
14	O	LD_CTL	LOADING MOTOR CONTROL REVERSE(L)/STOP(M)/FORWARD(H)
15	O	LED_F&G	FF LED ON(H)
16	O	TV_L/VCR_H	TV(L)/VCR(H)
17	I/O	IIC_DATA	I2C SERIAL DATA
18	O	IIC_CLK	I2C SERIAL CLOCK
19	O	INPUT2	INPUT SELECT 2
20	O	DEFEAT_H	AUDIO DEFEAT(H)
21	O	CAP_R/F	CAPSTAN MOTOR REVERSE(H)/FORWARD(L)
22	O	A-MUTE_H	AUDIO MUTE(H)
23	O	HSW	HEAD SW
24	O	V-LOCKPLS	V-LOCK PULSE
25	I	RST	RESET
26	O	1/4_OSC	3.58MHz
27	O	HIFI-HSW	HI-FI HEAD SW
28	O	V-D-REC_H	VIDEO DELAY REC(H)
29	I	HIFI-PB_H	HI-FI PB(H)
30	I	S-TAB	SAFETY TAB BROKEN(H)
31	I/O	BLACK-DET-V/LED_B	VIDEO BLACK DETECT(L)/VCR LED ON(H)
32	I/O	BLACK-DET-A/LED_C	AUDIO BLACK DETECT(L)/TIMER LED ON(H)
33	O	PWM1(CAP)	CAP ERROR
34	O	PWM0(CYL)	CYL ERROR
35	O	PANE_CLK/LED_K	PANEL CLOCK/REC LED ON(H)
36	I	DVDD	VDD
37	O	OSC_OUT	OSC 2
38	I	OSC_IN	OSC 1
39	-	DVSS	GND
40	I	KEY12	KEY DATA 12
41	I	KEY13	KEY DATA 13
42	-	SXI	SXI
43	-	NC	(Not used)
44	-	NC	(Not used)
45	-	NC	(Not used)
46	-	NC	(Not used)
47	O	CV_OUT	VIDEO
48	-	OSD_VSS	GND
49	I	CV_IN	VIDEO
50	I	CV_IN2	V-SYNC

Pin No.	I/O	Signal Name	Description
51	I	OSD_VDD	VDD
52	O	AFCC	AFC
53	I	AFCLPF	AFC
54	O	PANE_CS	PANEL CS(L)
55	O	3CH_HIZ/4CH_L	CH3(H)/CH4(L)
56	-	NC	(Not used)
57	-	NC	(Not used)
58	-	NC	(Not used)
59	-	NC	(Not used)
60	-	NC	(Not used)
61	-	NC	(Not used)
62	-	NC	(Not used)
63	-	NC	(Not used)
64	-	NC	(Not used)
65	I	PFG	CYL PG/FG
66	O	C/R/SS_L	CUE/REV/SS(L)
67	I	FGF	CAP FG
68	-	AFG	CAP FG
69	O	VRO	V-REF 1
70	-	VRI	V-REF 2
71	-	AVSS	VSS
72	-	CTLA	CTL AMP
73	I	AVDD	VDD
74	I/O	RCTLP	CTL PULSE(+)
75	-	RCTLN	CTL PULSE(-)
76	-	CO	PB CONTROL PULSE
77	-	NC	(Not used)
78	-	NC	(Not used)
79	I	T-PHOTO_L	TAKEUP PHOTO TR(L)
80	I	S-PHOTO_L	SUPPLY PHOTO TR(L)
81	I	DTS-AFC	AFC
82	I	MTS_MODE	MTS MODE
83	O	POWER-ON_L	POWER ON(L)
84	O	SW+27V ON(H)	It get (H) during High Speed search for PV-V4622.
85	I	AT_ENV	ENV-VOLTAGE
86	I	KEY4	KEY DATA 4
87	I	KEY3	KEY DATA 3
88	I	KEY2	KEY DATA 2
89	I	KEY1	KEY DATA 1
90	I	KEY11	KEY DATA 11
91	I	KEY10	KEY DATA 10
92	O	LED_H&I&J	PLAY LED ON(H)
93	O	SCAN1/CATV_DATA	SCAN 1
94	O	SCAN2/CATV_CS	SCAN 2
95	I	POS.3	MODE SW POSITION C
96	I	POS.2	MODE SW POSITION B
97	I	POS.1	MODE SW POSITION A
98	O	ROT	ROTARY SW
99	O	HAMP	HEAD AMP SW
100	I	DENV	ENVELOPE DET

IC6001 SERVO BLOCK DIAGRAM



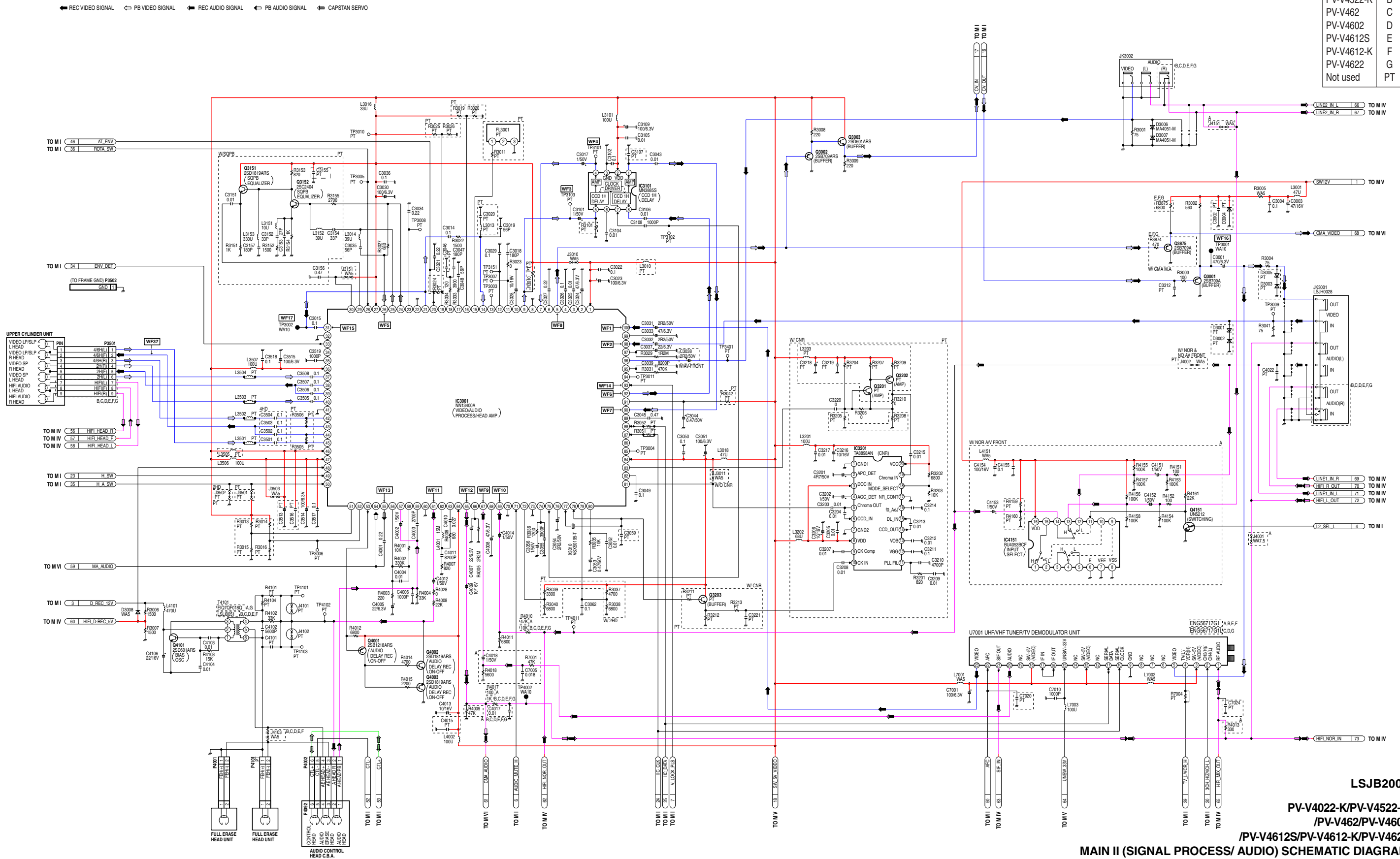
CAPSTAN MOTOR ASS'Y



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Do not use the part number on this diagram.

NOTE:
FOR SCHEMATIC DIAGRAM AND CIRCUIT BOARD LAYOUT NOTES,
REFER TO BEGINNING OF SCHEMATIC SECTION.

MODEL	MARK
PV-V4022-K	A
PV-V4522-K	B
PV-V462	C
PV-V4602	D
PV-V4612S	E
PV-V4612-K	F
PV-V4622	G
Not used	PT



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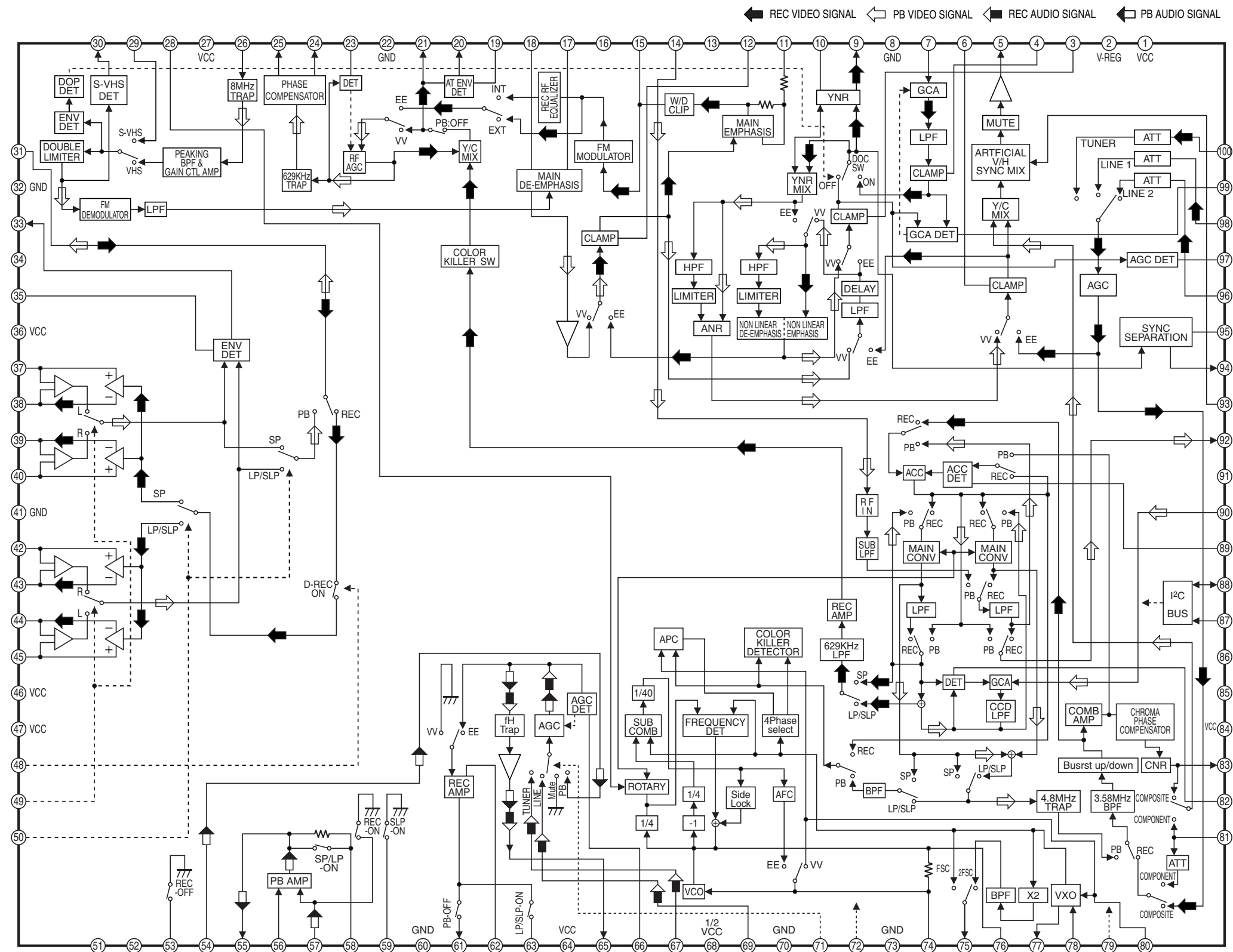
PV-V4022-K/PV-V4522-K

/PV-V462/PV-V4602

/PV-V4612S/PV-V4612-K/PV-V4622

MAIN II (SIGNAL PROCESS/ AUDIO) SCHEMATIC DIAGRAM

IC3001 VIDEO/AUDIO SIGNAL PROCESS / HEAD AMP IC- DETAIL BLOCK DIAGRAM



**PV-V4022-K/PV-V4522-K/PV-V462
/PV-V4602/PV-V4612S/PV-V4612-K/PV-V4622
IC3001 DETAIL BLOCK DIAGRAM**

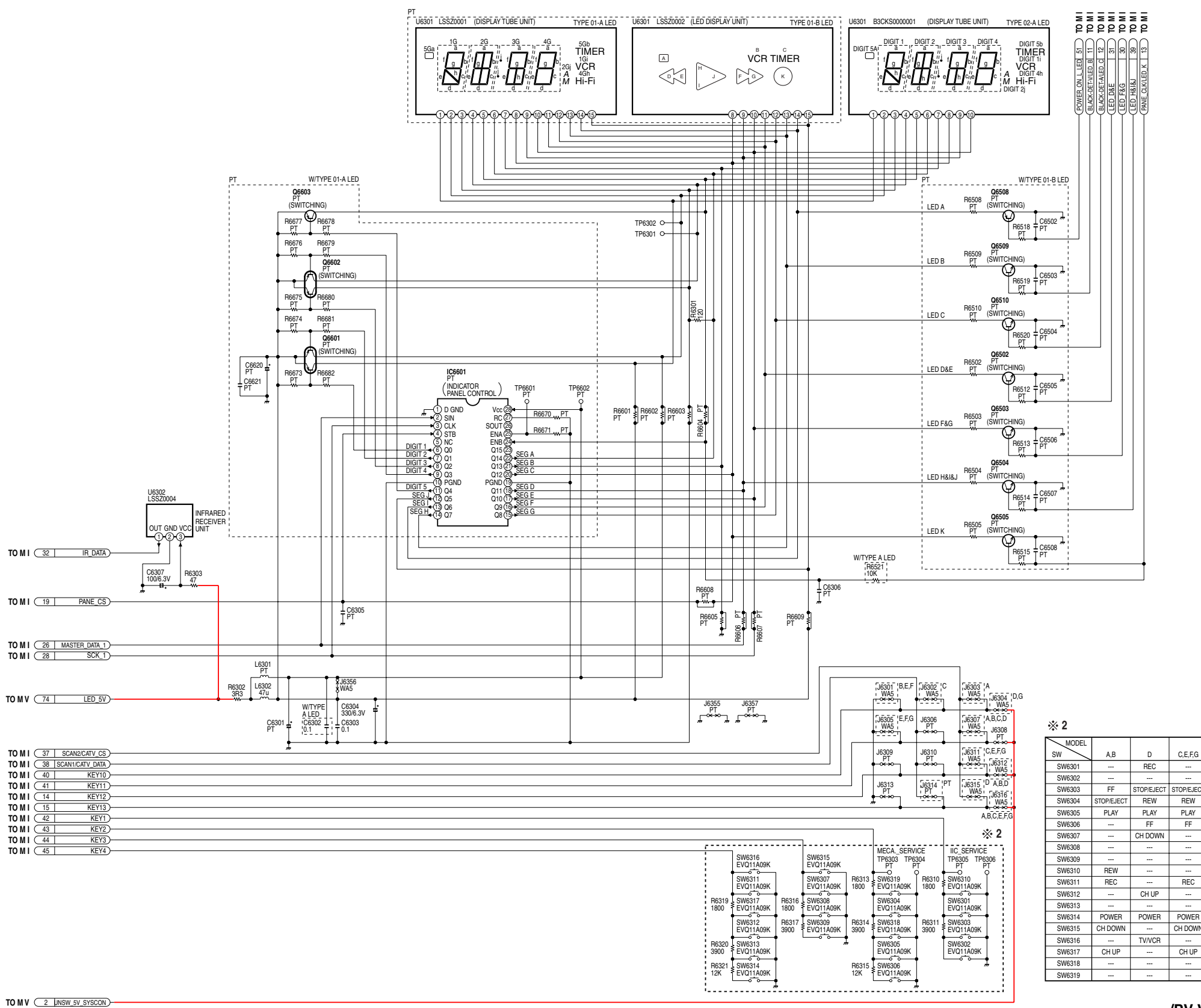
NOTE: For placing a purchase order of the parts, be sure to use the part number listed in the parts list. Do not use the part number on this diagram.

NOTE: FOR SCHEMATIC DIAGRAM AND CIRCUIT BOARD LAYOUT NOTES, REFER TO BEGINNING OF SCHEMATIC SECTION.

COMPARISON CHART OF MODELS & MARKS

MODEL	MARK
-------	------

MODEL	MARK
PV-V4022-K	A
PV-V4522-K	B
PV-V462	C
PV-V4602	D
PV-V4612S	E
PV-V4612-K	F
PV-V4622	G
Not used	PT



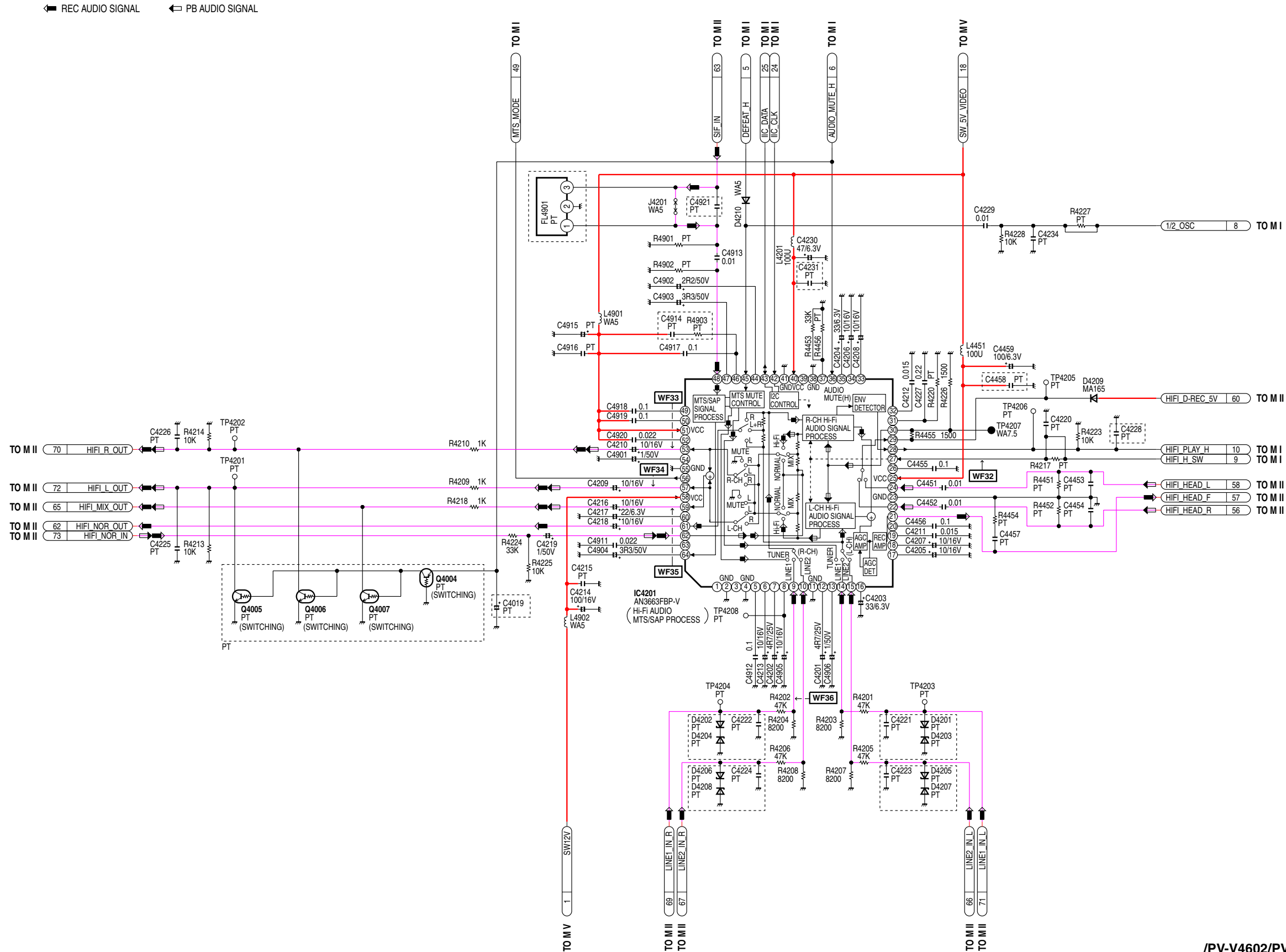
LSJB2006
PV-V4022-K/PV-V4522-K/PV-V462

/PV-V4602/PV-V4612S/PV-V4612-K/PV-V4622
MAIN III (OPERATION) SCHEMATIC DIAGRAM

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NOTE:
FOR SCHEMATIC DIAGRAM AND CIRCUIT BOARD LAYOUT NOTES,
REFER TO BEGINNING OF SCHEMATIC SECTION.

MODEL	MARK
PV-V4022-K	A
PV-V4522-K	B
PV-V462	C
PV-V4602	D
PV-V4612S	E
PV-V4612-K	F
PV-V4622	G
Not used	PT



LSJB2006
PV-V4522-K/PV-V462
/PV-V4602/PV-V4612S/PV-V4612-K/PV-V4622
MAIN IV (Hi-Fi) SCHEMATIC DIAGRAM

MAIN V (POWER SUPPLY) SCHEMATIC DIAGRAM

CAUTION: FOR CONTINUED PROTECTION AGAINST FIRE HAZARD, REPLACE ONLY WITH THE SAME TYPE 1.6A 125/250V FUSE.
ATTENTION: POUR UNE PROTECTION CONTINUE LES RISQUES D'T INCENDIE N'I UTILISERQUE DES FUSIBLE DE MÊME TYPE 1.6A 125/250V



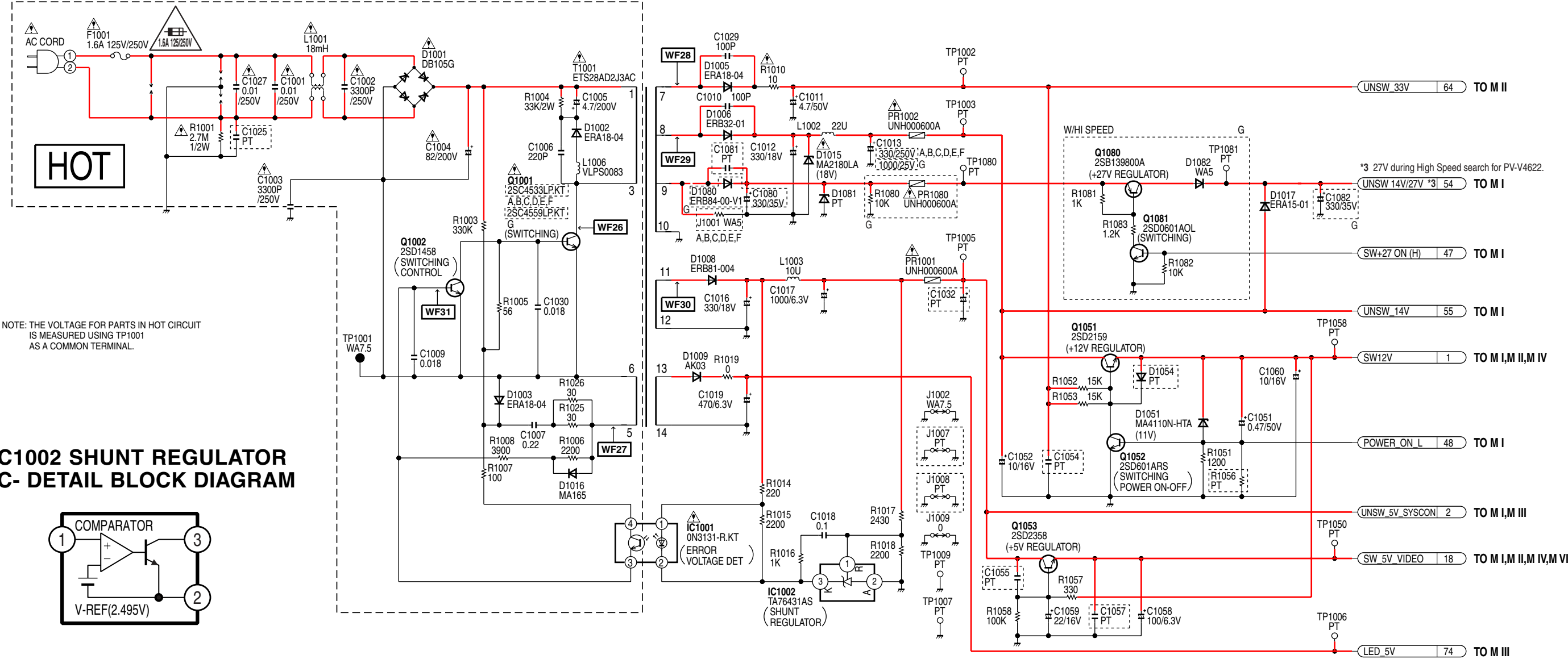
IMPORTANT SAFETY NOTICE:
COMPONENTS IDENTIFIED BY THE SIGN ⚠ HAVE SPECIAL CHARACTERISTICS IMPORTANT FOR SAFETY. WHEN REPLACING ANY OF THESE COMPONENTS, USE ONLY THE SPECIFIED PARTS.

NOTE: For placing a purchase order of the parts, be sure to use the part number listed in the parts list. Do not use the part number on this diagram.

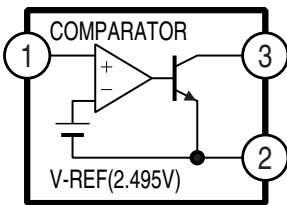
NOTE: FOR SCHEMATIC DIAGRAM AND CIRCUIT BOARD LAYOUT NOTES, REFER TO BEGINNING OF SCHEMATIC SECTION.

COMPARISON CHART OF MODELS & MARKS	
MODEL	MARK
PV-V4022-K	A
PV-V4522-K	B
PV-V462	C
PV-V4602	D
PV-V4612S	E
PV-V4612-K	F
PV-V4622	G
Not used	PT

HOT CIRCUIT. BE CAREFUL AND USE AN ISOLATION TRANSFORMER WHEN SERVICING.



IC1002 SHUNT REGULATOR
IC- DETAIL BLOCK DIAGRAM

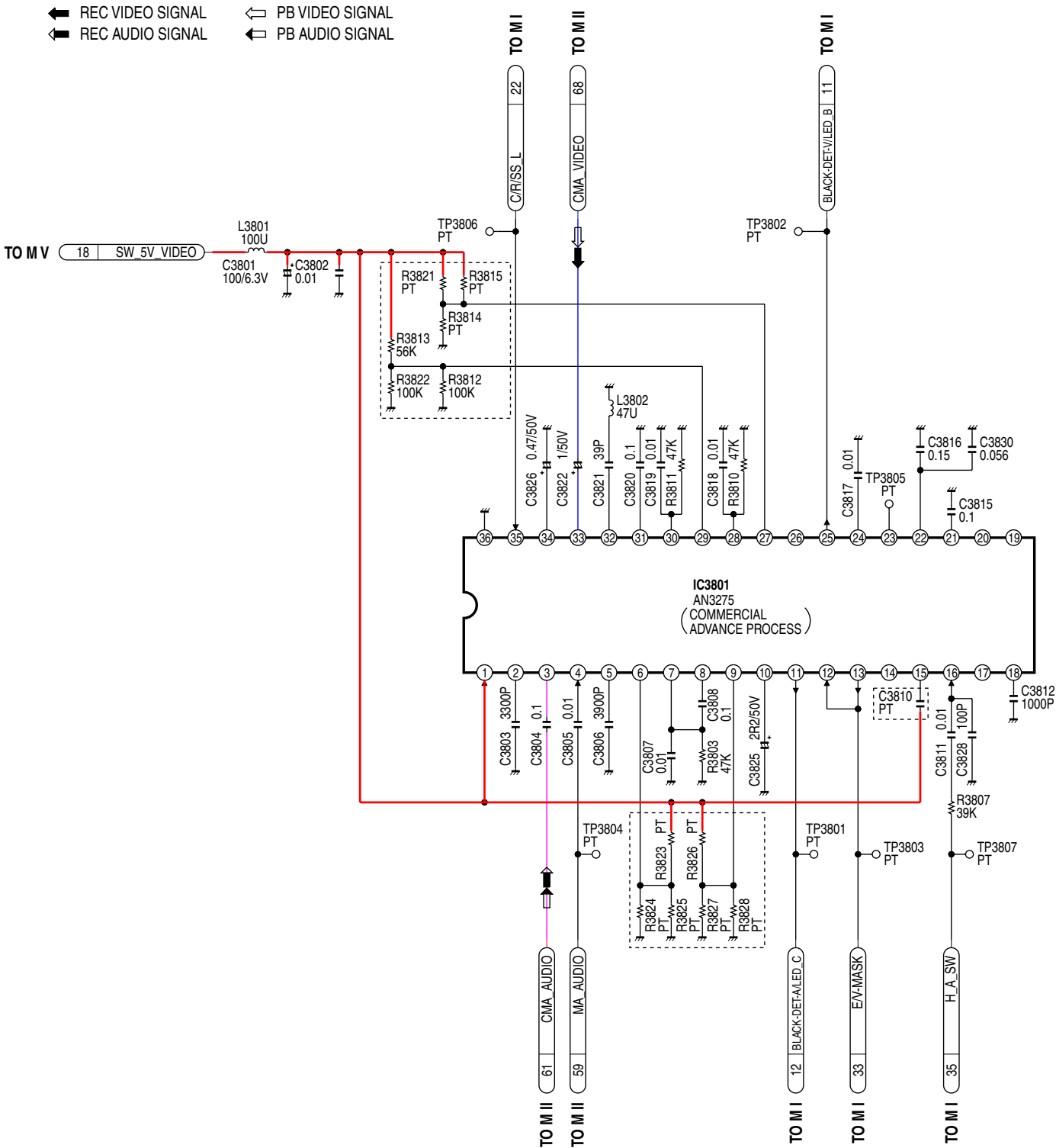


MAIN VI (ADVANCE) SCHEMATIC DIAGRAM (E,F,G)

NOTE: For placing a purchase order of the parts,
be sure to use the part number listed in the parts list.
Do not use the part number on this diagram.

NOTE:
FOR SCHEMATIC DIAGRAM AND CIRCUIT BOARD LAYOUT NOTES,
REFER TO BEGINNING OF SCHEMATIC SECTION.

COMPARISON CHART OF MODELS & MARKS	
MODEL	MARK
PV-V4022-K	A
PV-V4522-K	B
PV-V462	C
PV-V4602	D
PV-V4612S	E
PV-V4612-K	F
PV-V4622	G
Not used	PT



IC3801 COMMERCIAL ADVANCE PROCESS
IC- DETAIL BLOCK DIAGRAM

