

**KEY VOLTAGE CHART (SW6202, 6204, 6205, 6210, 6211, 6214, 6215, 6217)**

• 1 Microcontroller IC (IC6001) and EEP ROM IC (IC6005) replacement note:  
In early units, MN101D06EPK is used for Microcontroller IC (IC6001).

	Microcontroller IC (IC6001)	EEPROM IC (IC6005)
--	--------------------------------	-----------------------

### MODE SELECT SWITCH

H. SW 23 TO M II

SW6002 LSS0012  
MODE SELECT SWITCH

POWER ON L	48	TO MV
MTC MODE	49	TO MV

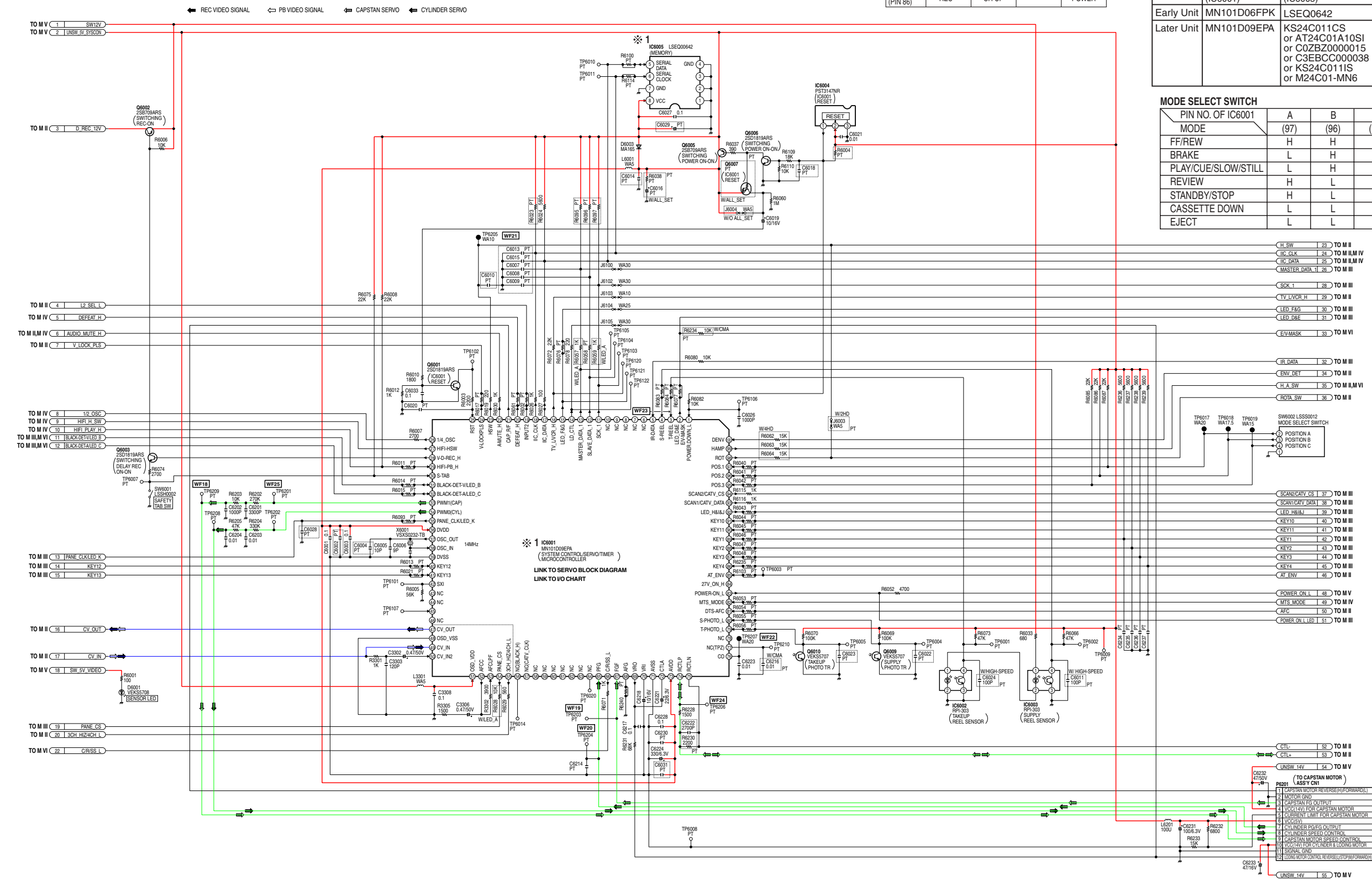
CTL-	52	TO M II
CTL+	53	TO M II

UNSW\_14V 55 TO M V

MODEL	MAI

[illegible]

## MAIN I (SYSTEM CONTROL

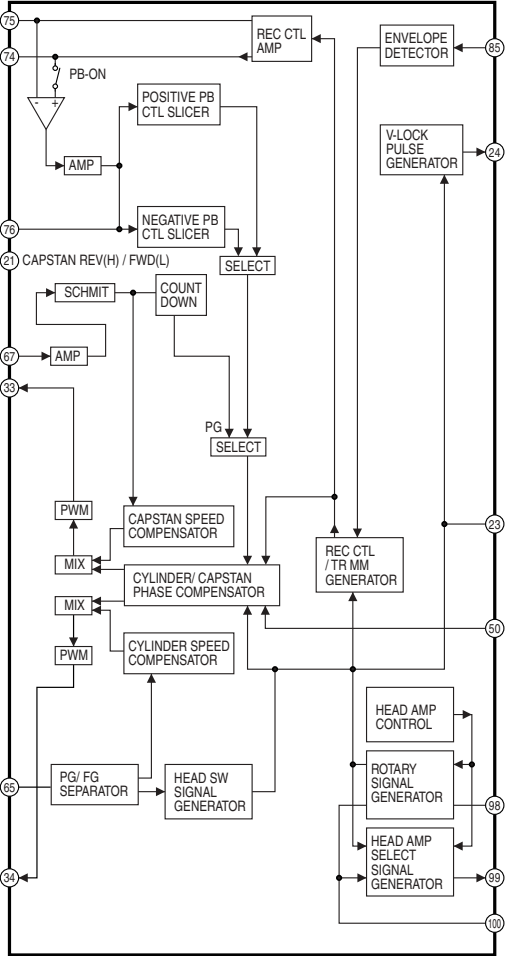


I/O CHART OF IC6001

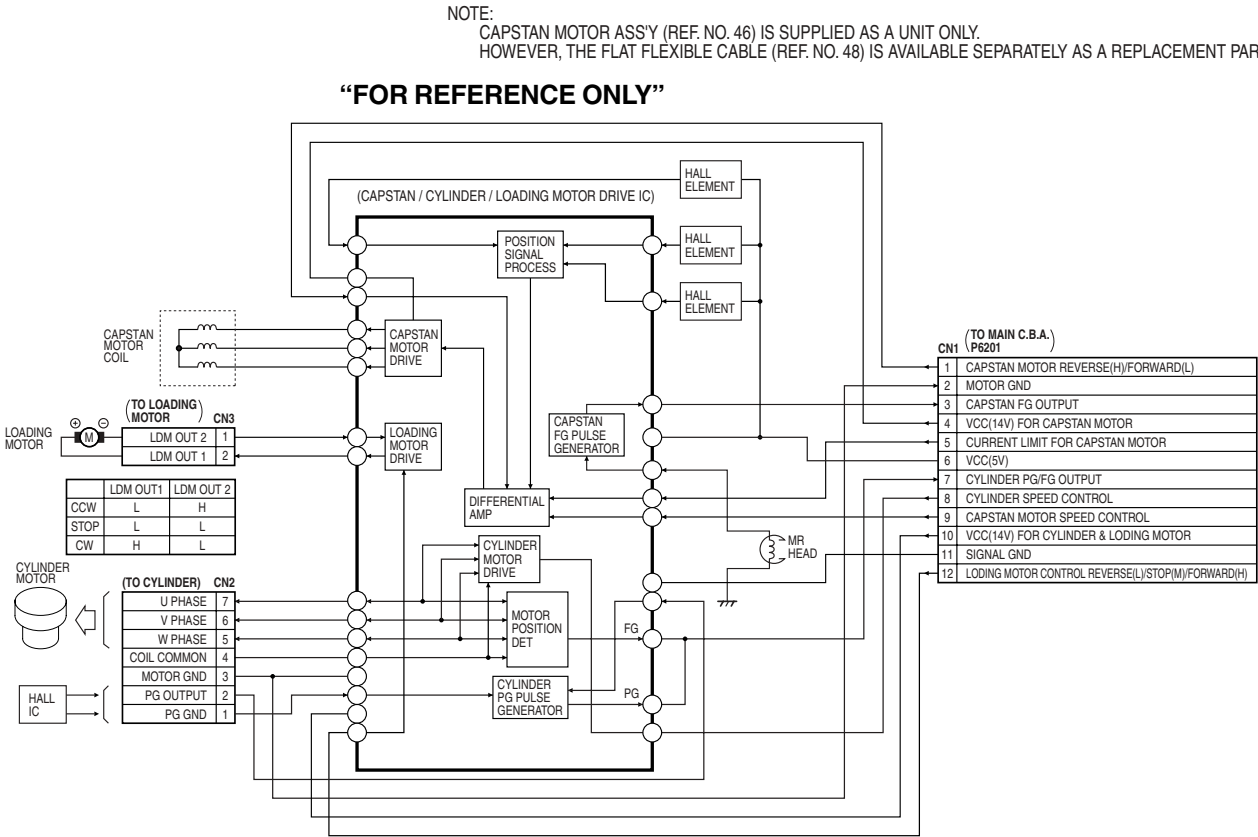
Pin No.	I/O	Signal Name	Description
1	I	POWER_DOWN_L	POWER DOWN(L)
2	O	E/V-MASK	REW LED ON(H)/E/V-MASK
3	I	T-REEL	TAKEUP REEL PULSE
4	I	S-REEL	SUPPLY REEL PULSE
5	I	IR-DATA	IR-DATA
6	-	NC	(Not used)
7	-	NC	(Not used)
8	-	NC	(Not used)
9	-	NC	(Not used)
10	-	NC	(Not used)
11	O	SCK_1	SERIAL CLOCK 1
12	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	27V_ON_H	SW+27V ON(H)
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

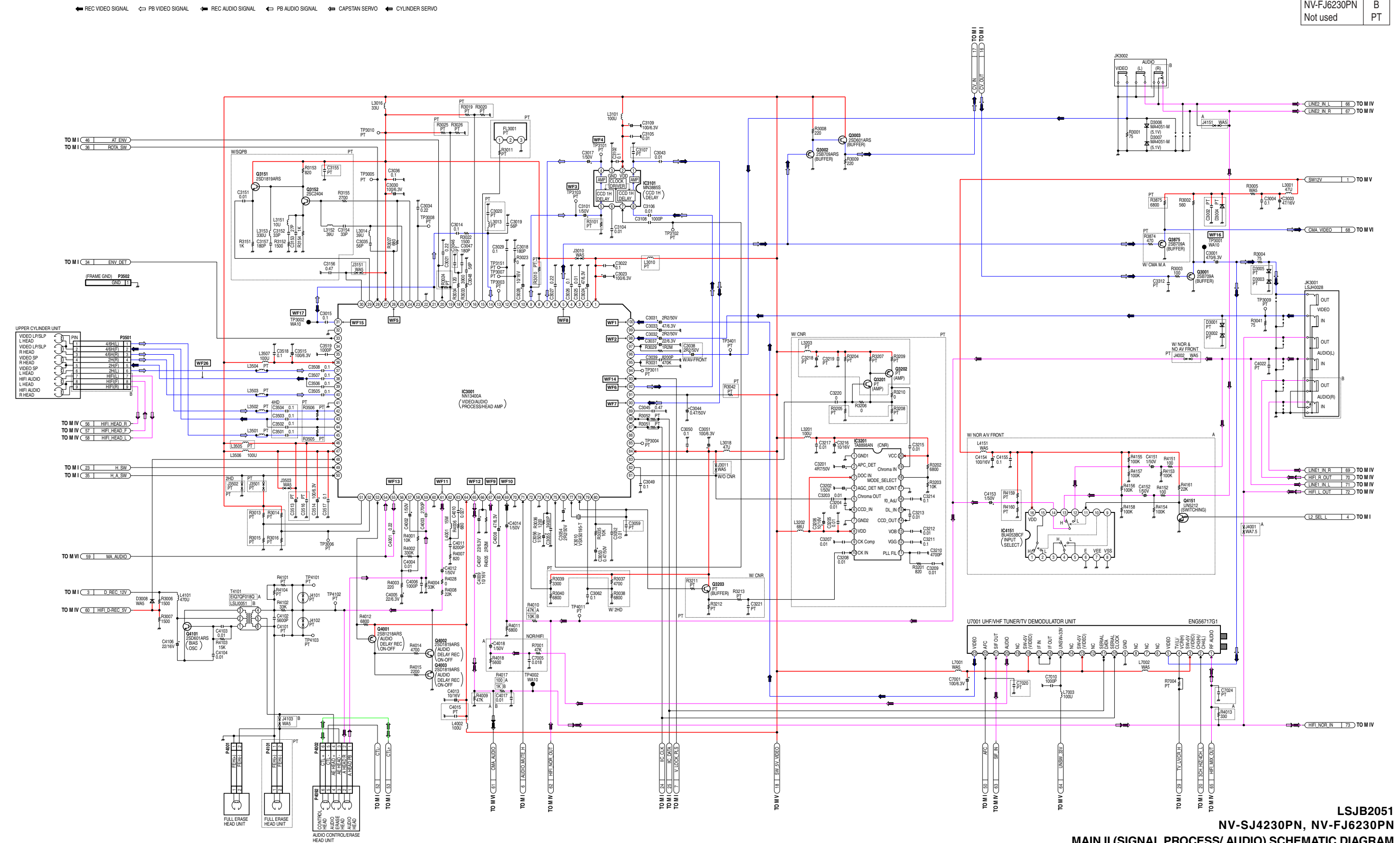


## MAIN II (SIGNAL PROCESS/AUDIO) SCHEMATIC DIAGRAM

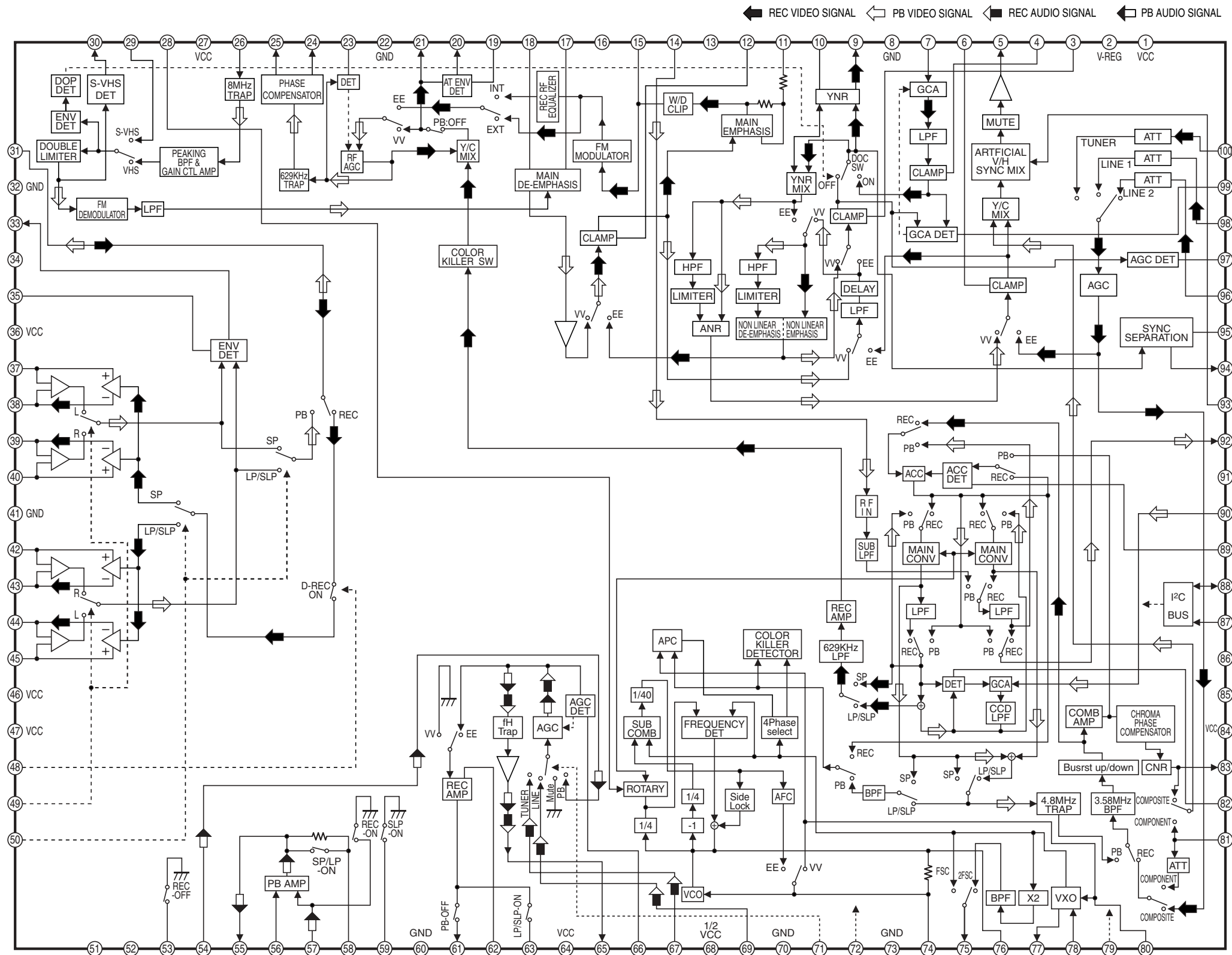
NOTE: For placing a purchase order of the parts,  
be sure to use the part number listed in the parts list.  
Do not use the part number on this diagram.

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

MODEL	MARK
NV-SJ4230PN	A
NV-FJ6230PN	B
Not used	PT



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



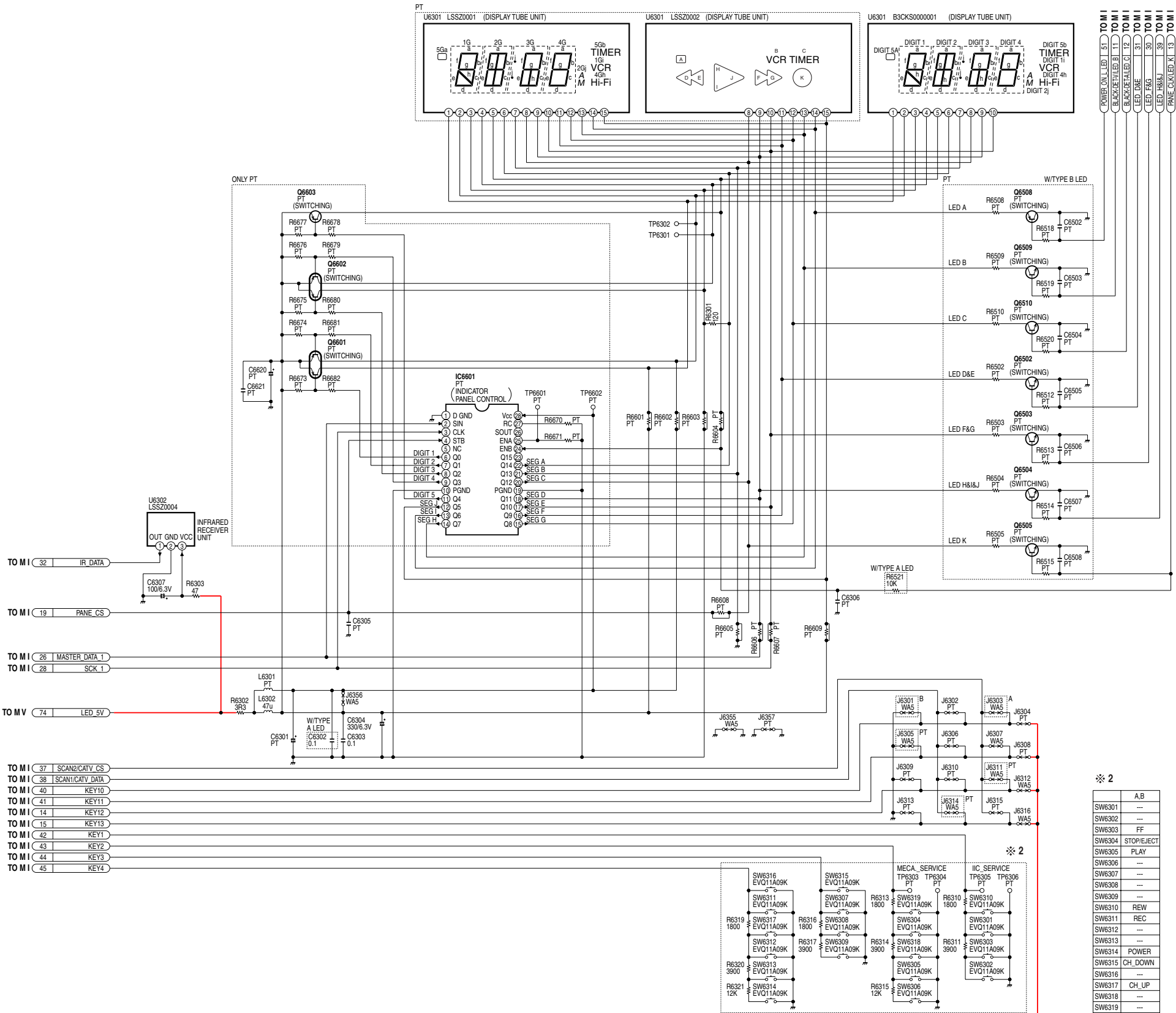
MAIN III (OPERATION) SCHEMATIC DIAGRAM

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
NV-SJ4230PN	A
NV-FJ6230PN	B
Not used	PT





### MAIN IV (Hi-Fi) SCHEMATIC DIAGRAM (B)

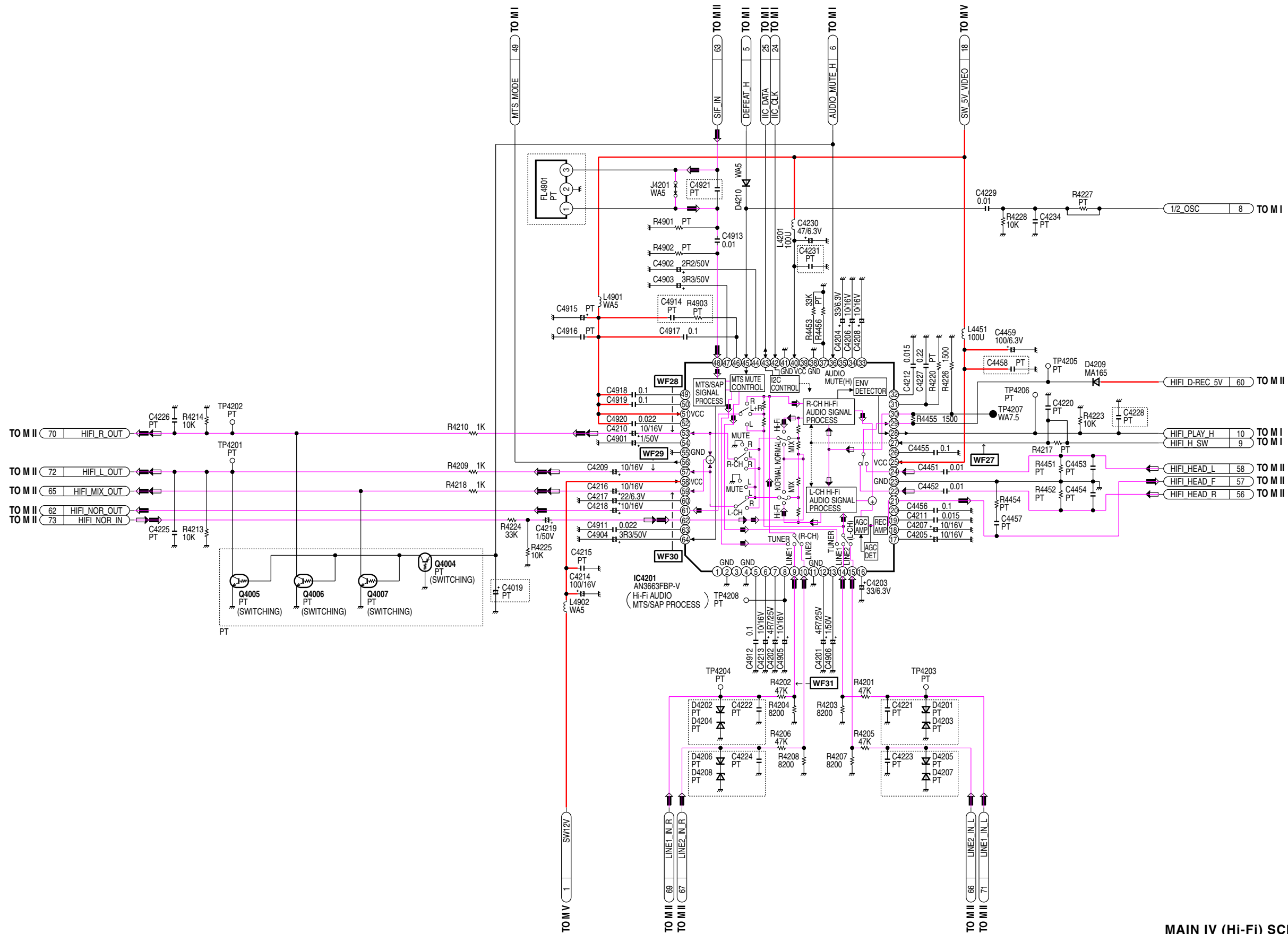
◀ REC AUDIO SIGNAL      ◀ PB AUDIO SIGNAL

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
NV-SJ4230PN	A
NV-FJ6230PN	B
Not used	PT




LSJB2051

**NV-FJ6230PN**

### MAIN IV (Hi-Fi) SCHEMATIC DIAGRAM (B)

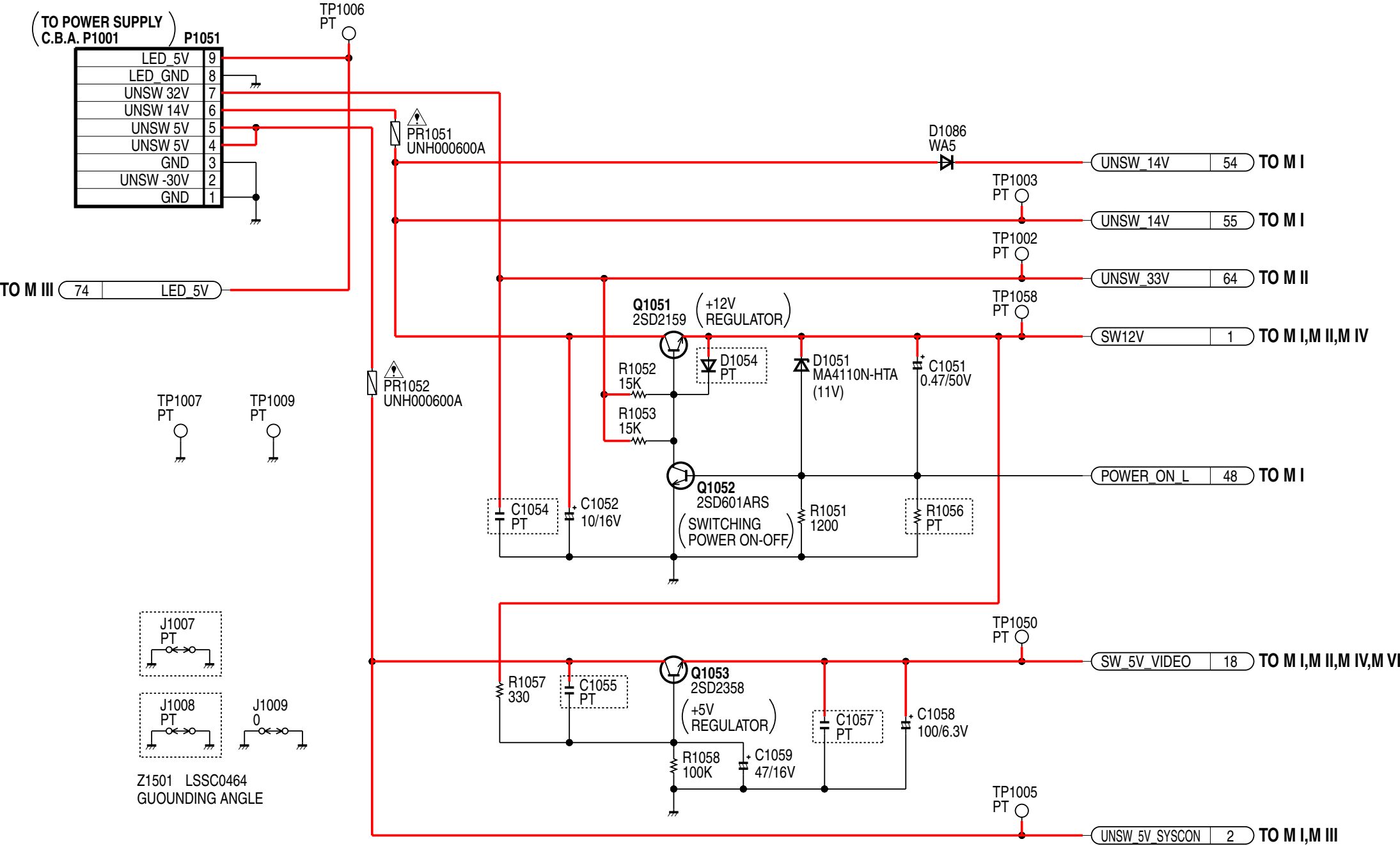
MAIN V (POWER SUPPLY) SCHEMATIC DIAGRAM

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
NV-SJ4230PN	A
NV-FJ6230PN	B
Not used	PT



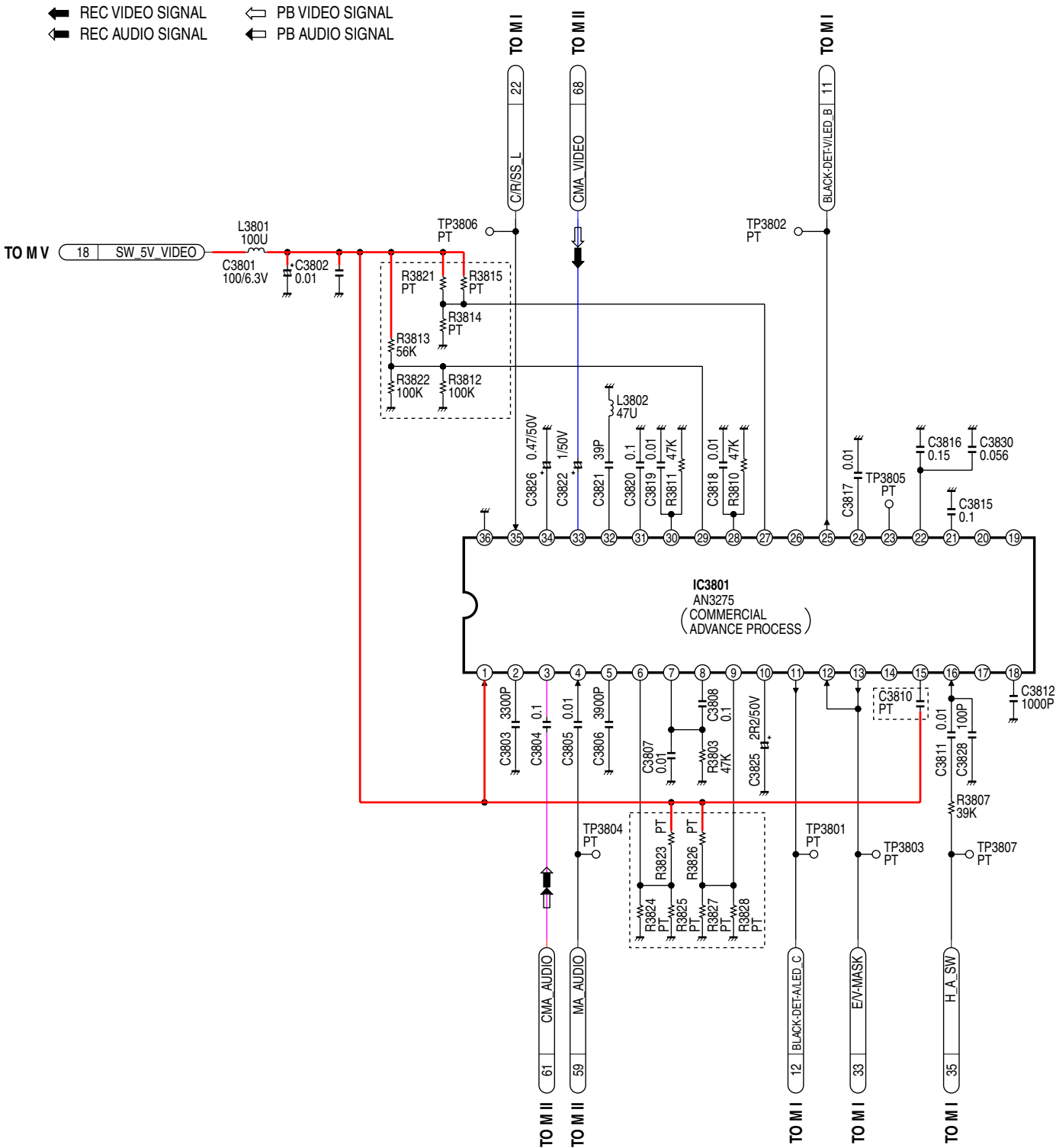
MAIN VI (ADVANCE) SCHEMATIC DIAGRAM (PT)

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
NV-SJ4230PN	A
NV-FJ6230PN	B
Not used	PT



IC3801 COMMERCIAL ADVANCE PROCESS  
IC- DETAIL BLOCK DIAGRAM

