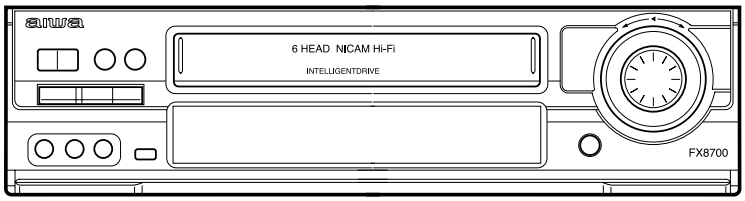
aiwa SERVICE

HV-FX8700 K, EH



SERVICE MANUAL

STEREO VIDEO CASSETTE RECORDER BASIC VIDEO MECHANISM : NC3600 P4LRH

• If requiring information about the mechanism, see Service Manual of NCP4LHR3600, (S/MCode No.09-995-333-1n1).

aiwa

S/M Code No. 09-008-437-3N1

DATA

SPECIFICATIONS

Video recording system	Rotary 2 head helical scanning system
Video head	Double azimuth 4 heads
Tuner system	Frequency sysnthesised tuner
TV system	B/G <EH> I <K>
Video signal	PAL color signal, 625 lines, 50 fields
Usable cassettes	VHS video cassettes
Recording/playback time	PAL <EH> SP: 5 hours max. with E-300 tape LP: 10 hours max. with E-300 tape <K> SP: 4 hours 20 minutes max. with E-260 tape LP: 8 hours 40 minutes max. with E-260 tape NTSC (Playback only) SP: 3 hours max. with T-180 tape LP: 6 hours max. with T-180 tape EP: 9 hours max. with T-180 tape
Tape speed	PAL SP: 23.39 mm/sec LP: 11.69 mm/sec NTSC (Playback only) SP: 33.35 mm/sec LP: 16.67 mm/sec EP: 11.12 mm/sec
Rewind time	Approx. 1 min. with E-180 tape
Channel coverage	VHF-Low <EH> : E2–4, S1–6 VHF-High <EH> : E5–12, S7–41 UHF: 21–69
RF output	UHF channel between 22 and 69 72 dBµ <EH> UHF channel between 22 and 69 73 dBµ <K>
Video input	0.5–2.0 Vp-p, 75 ohms, unbalanced
Video output	1.0 Vp-p, 75 ohms, unbalanced
Horizontal resolution	240 lines (nominal)
Video S/N	43 dB (nominal)
Audio track	3 tracks (Hi-Fi sound 2 tracks, Normal sound 1 track)
Audio input level	SCART: –8 dBs, 22 kohms RCA: –8 dBs, 22 kohms
Audio output level	SCART: –8 dBs less than 2.2 kohm RCA: –8 dBs less than 2.2 kohm
Hi-Fi frequency response	20 Hz–20 kHz
Hi-Fi dynamic range	More than 90 dB
Hi-Fi Wow and Flutter	Less than 0.01% (nominal)
Operating temperature	5°C–40°C
Power requirements	EH: 220–240 V AC, 50 Hz K: 230 V AC, 50 Hz
Power consumption	21 watts TYP 2.2 watts (power save mode, 230V AC)
Dimensions	380 (W) x 304 (D) x 92 (H) mm (15 x 12 x $3^5/_8$ in.)
Weight	Approx. 4.2 kg (9.24lbs.)

- Design and specifications are subject to change without notice.
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ACCESSORIES / PACKAGE LIST

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
1	8A-JU1-901-110		IB,K (E) -FX8700<K>
1	8A-JU1-903-110		IB,EH EGDSI-FX8700<EH>
⚠ 2	87-050-076-010		AC CORD SET ASSY,E<EH>
⚠ 2	87-A80-062-010		AC CORD SET ASSY,K BLK<K>
3	87-A80-141-010		CORD,PIN 2PC368V 150CM R-W
3	87-034-796-010		CORD,RF PAL S
4	8A-JU1-620-010		RC UNIT,RC-AVRO1<K>
4	8A-JU1-624-010		RC UNIT,RC-AVRO2<EH>

VCR TEST TAPE INTERCHANGEABILITY TABLE

新しいタイプのテストテープは、CH-1 (NTSC用) とCH-2 (PAL用) の2種類があります。それぞれのテープには、(1) ~ (4) で区別する４種類の信号が、次の順番と時間で記録されています。
There are two types of the new alignment tape CH-1B (for NTSC) and CH-2 (for PAL). On each tape four signals (1) - (4) are recorded for the times and in the order shown below.

(1) : 8 min. → (2) : 2 min. → (3) : 5 min. → (4) : 5 min.

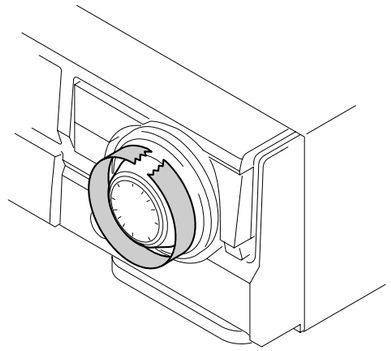
TTV-MP1 (M-PAL用), TTV-MS1 (MESECAM 用), TTV-S1 (SECAM 用) については現行通りです。
The TTV-MP1 (for M-PAL), TTV-MS1 (for MESECAM) and TTV-S1 (for SECAM) alignment tapes have the same contents as the previous tapes.

方式 Method	現行タイプ Now in use TYPE		新タイプ New Type		主な用途 Application
	テープ名 Model	記録内容※1 Contents ※1	テープ名 Model	記録内容※1 Contents ※1	
NTSC	TTV-N1	NTSC, Color, 1kHz,SP	CH-1B(1)	NTSC, Stairsteps, 1kHz,SP	PB-Yレベル調整等の一般電気調整。ACEヘッドの高さ/傾き調整。 PB-Y Level/General electrical ADJ. Head ACE Height/ Tilt ADJ.
	TTV-N1E	NTSC, Color, 1kHz,EP	CH-1B(4) ※2	NTSC, Color, 1kHz,EP	スイッチング位置調整。 Switching position ADJ.
	TTV-N2	NTSC, Stairsteps, 7kHz,SP	CH-1B(2)	NTSC, Stairsteps, 7kHz,SP	ACEヘッドのアジマス調整。スーパークリアーピクチャーのレベル調整。 Head ACE Azimuth ADJ.
	TTV-N12 (SCV-1998)	NTSC, Color, 1kHz,SP	CH-1B(4)	NTSC, Color, 1kHz,EP	FMエンベロープ調整。Xバリュー（位相）調整。 FM Envelope ADJ. X-Value ADJ.
	TTV-N7A	NTSC, Stairsteps, 1kHz, SP,HiFi400Hz	CH-1B(3)	NTSC, Color, No sound SP,HiFi400Hz	HiFiオーディオ再生レベル調整。 HiFi Audio PB Level ADJ.
PAL	TTV-P1	PAL, Color, 1kHz,SP	CH-2(2) ※3	PAL, Stairsteps, 1kHz,SP	スイッチング位置調整。(SP専用モデル)PB-Yレベル調整等の一般電気調整。ACEヘッドの高さ/傾き調整。 Switching position ADJ. PB-Y Level/General electrical ADJ. Head ACE Height/Tilt ADJ.
	TTV-P1L	PAL, Color, 1kHz,LP	CH-2(4)	PAL, Color, 1kHz,LP	スイッチング位置調整。(LP対応モデル）FMエンベロープ調整。 (LP対応モデル）Xバリュー（位相）調整。(LP対応モデル) Switching position. (LP Model) FM Envelope ADJ. (LP Model) X-Value ADJ. (LP Model)
	TTV-P2	PAL, Stairsteps, 6kHz,SP	CH-2(1)	PAL, Stairsteps, 6kHz,SP	ACEヘッドのアジマス調整。FMエンベロープ調整。(SP専用モデル) Xバリュー（位相）調整。(SP専用モデル) Head ACE Azimuth ADJ. FM Envelope ADJ. (SP Model) X-Value ADJ. (SP Model)
	TTV-P7	PAL, Stairsteps, 1kHz,SP,HiFi 1kHz	CH-2(3)	PAL, Color, No sound SP,HiFi400Hz	HiFiオーディオ再生レベル調整。 HiFi Audio PB Level ADJ.
	TTV-P16	PAL, Color, 400Hz,SP,HiFI 1kHz	変更なし No Changed.		FMフィルター調整 FM Filter ADJ.

※ 1. カラー方式→映像信号→ノーマル音声→テープスピード→HiFi 音声の順で記載されています。
※ 1. Described in the order of color format, video signal, linear audio, tape speed and Hi-Fi audio.
※ 2. SP専用モデルの場合は、CH-1Bの (1) ～ (3) を使用して下さい。
※ 2. Use CH-1B (1) - (3) with models used exclusively in the SP mode.
※ 3. 色信号の観測が必要な場合は CH-2 の (3) または (4) を使用して下さい。
※ 3. Use CH-2 (3) and (4) when it is necessary to observe the chroma signal.

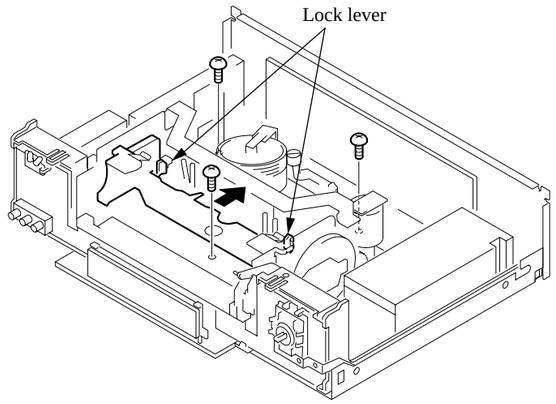
DISASSEMBLY INSTRUCTION

1. How to Remove the JOG/SHUTTLE

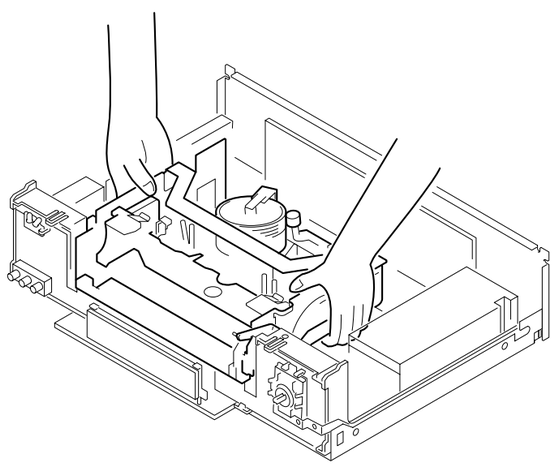


Wrap a tape around the JOG/SHUTTLE and remove it.

2. How to Remove the Mechanism
   NOTE:Adjust switching position after reassembling mechanism assy.



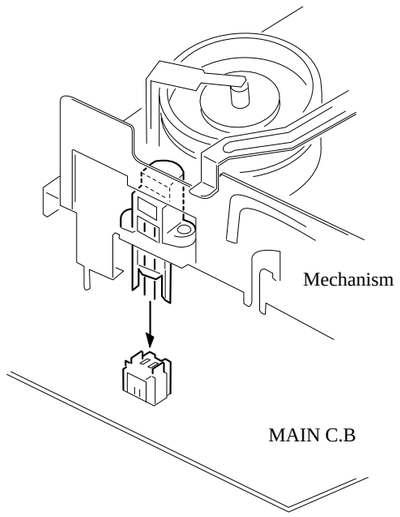
Slide the cassette holder (as shown in the illustration), and remove the three screws fixing the MAIN BASE of the mechanism deck.



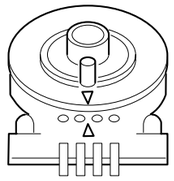
Raise the mechanism deck and remove it.

Note: Never hold the TOP BRACKET of the mechanism.

3. Caution When Attaching the Mechanism



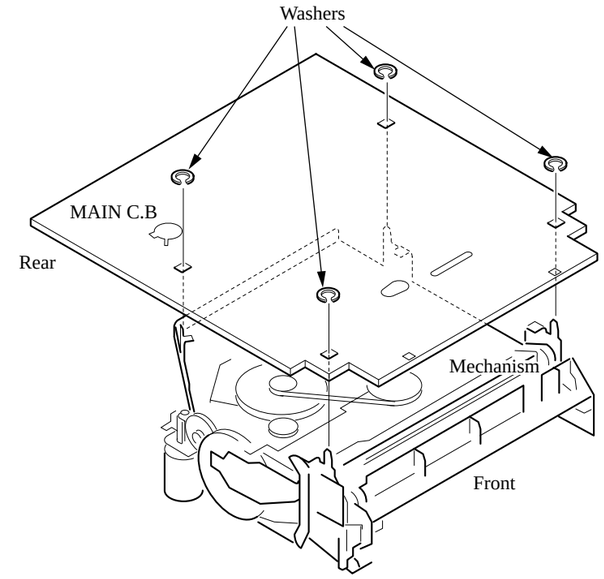
Be careful when attaching the MAIN C.B. to mechanism that the leg leads of the erase head must be correctly inserted.



Be careful when attaching the MAIN C.B. to mechanism that the marked position of the rotary switch on the MAIN C.B. must agree with the corresponding marking on the MAIN C.B. (See the above illustration.)

SERVICE POSITION

The washers that fix the MAIN C.B., are prepared to be used for service, for the purpose that the mechanism can be easily set in the service position while the main power of the machine is turned on. Attach the four washers to the four feet of the mechanism. (See the illustration below.)



This model has the structure that the MAIN, TU and PS C.B. are removed together with the rear panel when the rear panel is removed.
At the same time, be careful not to touch the power supply block during repair work.

Part No. 87-067-505-010 PW, 2.5-6-0.5 SLT

ELECTRICAL MAIN PARTS LIST

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
IC			
	87-A21-186-010		IC,STR-F6552
	87-A20-649-080		IC,HA17431VP
	87-A20-389-010		IC,NJM7809FA
	8Z-JU1-600-010		IC,TMP93CW76F-1A78<K>
	8Z-JU1-610-010		IC,TMP93CW76F-1A77<EH>
	87-A20-676-040		IC,S-80827ANNP-EDQ
	87-A21-217-040		IC,S-24C08AFJA-TB-01
	87-070-242-010		IC,LA7123
	87-001-982-010		IC,TA7291S
	87-A21-146-010		IC,TB6515AP
	87-017-375-080		IC,TC4094BF
	87-A21-147-010		IC,TA1278AF
	8Z-JU1-601-040		IC,TC90A24F-406
	87-001-854-010		IC,BA7755A
	87-A21-022-040		IC,BA3880FS
	87-A21-148-010		IC,TA1246AF
	87-A20-943-080		IC,LA7157M
	87-A91-074-010		RCR UNIT,NJL68H380
	87-A21-221-040		IC,TC4021BF
	87-A20-371-080		IC,KA33V
	87-A20-562-010		IC,SDA5650P-DIP-14
	87-A21-261-010		IC,MSP3417D
TRANSISTOR			
	87-A30-217-010		TR,2SB1436R
	87-026-223-080		CHIP-TR,DTC143TK
	87-A30-218-080		TR,2SB1237(Q)
	87-026-235-080		CHIP-TR,DTC114EK
	87-026-210-080		CHIP-TR,DTC144EK
	87-A30-216-080		TR,2SA933AS(R)
	87-026-227-080		CHIP-TR,DTA114EK
	87-A30-220-080		TR,2SC1741AS(R)
	89-110-372-080		CHIP-TR,2SA1037K(R)
	87-A30-219-080		TR,2SB1443(Q)
	89-324-122-080		CHIP-TR,2SC2412KR
	87-A30-270-010		P-TR,PT493F
	87-A30-099-080		TR,2SC3708S/T
	89-418-580-080		TR,2SD1858 TV2
	87-A30-062-080		CHIP-TR,KRC104S
	87-A30-063-080		CHIP-TR,KRA104S
DIODE			
	87-070-173-010		DIODE,S1WBA60
	87-A40-368-080		DIODE,EG01C
	87-A40-172-080		DIODE,EG01Z
	87-020-465-080		DIODE,1SS133
	87-A40-367-080		DIODE,EU01
	87-A40-628-080		DIODE,EN01Z
	87-A40-369-090		DIODE,RN3Z
	87-070-274-080		DIODE,1N4003 SEM
	87-A40-184-090		DIODE,RK34(F)
	87-A40-353-080		ZENER,HZS333
	87-A40-002-080		ZENER,MTZJ5.1C
	87-017-079-080		ZENER,HZS4A3
	87-A40-597-010		LED,GL451V
	87-027-406-080		ZENER,HZ3A33
	87-017-130-080		ZENER,HZS12A1
	87-017-350-080		LED,SEL1550CM PGRN
	87-A90-531-080		LED,SEL6915A
	87-A40-343-010		LED,SIR-56ST3F TRP
	87-020-027-080		C-DIODE,1SS184
MAIN C.B			
C101	87-010-313-080		C-CAP,S 18P-50 CH
C102	87-010-313-080		C-CAP,S 18P-50 CH
C103	87-010-311-080		C-CAP,S 12P-50 CH
C104	87-010-311-080		C-CAP,S 12P-50 CH
C105	87-010-197-080		C-CAP,S 0.01-25 KB
C106	87-010-322-080		C-CAP,S 100P-50 CH
C107	87-010-197-080		C-CAP,S 0.01-25 KB
C108	87-010-079-080		CAP,E 100-6.3V M 5L
C109	87-016-040-080		CAP,DL 0.047F-5.5FM
C110	87-010-079-080		CAP,E 100-6.3V M 5L
C111	87-015-695-080		CAP,E 1-50 7L
C112	87-010-197-080		C-CAP,S 0.01-0.25 KB
C113	87-010-197-080		C-CAP,S 0.01-0.25 KB
C114	87-010-197-080		C-CAP,S 0.01-0.25 KB
C115	87-010-197-080		C-CAP,S 0.01-0.25 KB
C116	87-015-681-080		CAP,E 10-16 7L
C117	87-010-405-080		CAP,ELECT 10-50V
C118	87-010-405-080		CAP,ELECT 10-50V
C119	87-010-197-080		C-CAP,S 0.01-0.25 KB
C120	87-010-197-080		C-CAP,S 0.01-0.25 KB
C121	87-015-677-080		CAP,E 100-6.3 7L
C122	87-010-550-040		CAP,E 100-6.3 M 5L
C123	87-010-197-080		C-CAP,S 0.01-0.25 KB
C124	87-010-197-080		C-CAP,S 0.01-0.25 KB
C125	87-015-681-080		CAP,E 10-16 7L
C127	87-010-374-080		CAP,ELECT 47-10V
C128	87-010-197-080		C-CAP,S 0.010.25 KB
C129	87-010-405-080		CAP,ELECT 10-50V
C130	87-010-263-080		CAP,ELECT 100-10V
C131	87-010-197-080		C-CAP,S 0.01-0.25 KB
C132	87-010-197-080		C-CAP,S 0.01-0.25 KB
C133	87-010-197-080		C-CAP,S 0.01-0.25 KB
C134	87-010-197-080		C-CAP,S 0.01-0.25 KB
C135	87-010-178-080		C-CAP,S 1000P-50KB
C136	87-010-374-080		CAP,ELECT 47-10V
C137	87-010-403-080		CAP,ELECT 3.3-50V
C138	87-010-405-080		CAP,ELECT 10-50V
C139	87-010-805-080		CAP,S 1-16
C140	87-010-322-080		C-CAP,S 100P-50 CH
C146	87-010-196-080		CAP,0.1-25 ZF
C147	87-010-197-080		C-CAP,S 0.01-25 KB
C148	87-010-197-080		C-CAP,S 0.01-25 KB
C149	87-010-197-080		C-CAP,S 0.01-25 KB
C150	87-010-196-080		C-CAP,S 0.1-25
C151	87-010-197-080		C-CAP,S 0.01-25 KB
C152	87-010-197-080		C-CAP,S 0.01-25 KB
C153	87-010-260-080		CAP,ELECT 47-25V
C154	87-010-498-080		CAP,E 10-16 M 5L
C155	87-010-498-040		CAP,E 10-16 M 5L
C156	87-010-498-040		CAP,E 10-16 M 5L
C157	87-015-689-080		CAP,E 0-35 7L
C158	87-010-197-080		C-CAP,S 0.01-25 KB
C159	87-010-178-080		C-CAP,S 1000P-50 KB
C160	87-010-197-080		C-CAP,S 0.01-25 KB
C161	87-010-197-080		C-CAP,S 0.01-25 KB
C162	87-010-178-080		C-CAP,S 1000P-50 KB
C163	87-010-175-080		C-CAP,S 560P-50
C164	87-010-263-080		CAP,ELECT 100-10V
C165	87-010-196-080		C-CAP,S 0.1-25
C166	87-010-198-080		C-CAP,S 0.022-25
C167	87-010-322-080		C-CAP,S 100P-50 CH
C168	87-010-260-080		CAP,ELECT 47-25V
C169	87-015-684-080		CAP,E 47-16 7L
C170	87-010-197-080		C-CAP,S 0.01-25 KB
C171	87-010-197-080		C-CAP,S 0.01-25 KB
C172	87-010-197-080		C-CAP,S 0.01-25 KB
C173	87-010-078-080		CAP,E 47-6.3 5L
C174	87-010-281-080		CAP,ELECT 22-35 SRE
C175	87-012-368-080		C-CAP,S 0.1-50 F
C176	87-010-197-080		C-CAP,S 0.01-25 KB
C177	87-010-553-040		CAP,E 47-16 M 5L
C182	87-010-263-080		CAP,ELECT 100-10V
C183	87-010-197-080		C-CAP,S 0.01-25 KB

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
C184	87-010-322-080		C-CAP,S 100P-50 CH
C185	87-010-322-080		C-CAP,S 100P-50 CH
C186	87-010-322-080		C-CAP,S 100P-50 CH
C187	87-010-322-080		C-CAP,S 100P-50 CH
C188	87-010-197-080		C-CAP,S 0.01-25 KB
C190	87-010-197-080		C-CAP,S 0.01-25 KB
C191	87-010-178-080		C-CAP,S 1000P-50
C192	87-010-197-080		C-CAP,S 0.01-25 KB
C193	87-018-134-080		CAPACITOR,TC-U 0.01-16
C301	87-010-403-080		CAP,ELECT 3.3-50V
C303	87-010-181-080		C-CAP,S 1800P-50 KB
C304	87-010-400-080		CAP,ELECT 0.47-50V
C305	87-010-196-080		C-CAPACITOR,S 0.1-25
C306	87-010-263-080		CAP,ELECT 100-10V
C308	87-010-213-080		C-CAP,S 0.015-25 KB
C309	87-010-400-080		CAP,ELECT 0.47-50V
C310	87-010-316-080		C-CAP,S 33P-50 CH
C311	87-010-197-080		C-CAP,S 0.01-25 KB
C312	87-010-196-080		C-CAPACITOR,S 0.1-25
C313	87-010-993-080		C-CAP,S 0.056-25 KB
C314	87-010-197-080		C-CAP,S 0.01-25 KB
C315	87-010-197-080		C-CAP,S 0.01-25 KB
C316	87-015-695-080		CAP,E 1-50 7L
C317	87-010-197-080		C-CAP,S 0.01-25 KB
C318	87-010-196-080		C-CAPACITOR,S 0.1-25
C319	87-015-677-080		CAP,E 100-6.3 7L
C320	87-010-196-080		C-CAPACITOR,S 0.1-25
C321	87-015-677-080		CAP,E 100-6.3 7L
C322	87-010-197-080		C-CAP,S 0.01-25 KB
C323	87-010-186-080		C-CAP,S 4700P-50 KB
C324	87-010-197-080		C-CAP,S 0.01-25 KB
C325	87-010-196-080		C-CAP,S 0.1-25
C326	87-010-405-080		CAP,ELECT 10-50V
C327	87-010-197-080		C-CAP,S 0.01-25
C328	87-010-400-080		CAP,ELECT 0.47-50V
C329	87-010-312-080		C-CAP,S 15P-50 CH
C331	87-010-196-080		C-CAPACITOR,S 0.1-25
C332	87-010-370-080		CAP,E 330-6.3 SME
C333	87-015-785-080		C-CAPACITOR,S 0.1-25
C334	87-010-402-080		CAP,ELECT 2.2-50V
C335	87-010-196-080		C-CAPACITOR,S 0.1-25
C336	87-018-209-080		CAP, TC U 0.1-50V
C337	87-010-196-080		C-CAPACITOR,S 0.1-25
C338	87-018-209-080		CAP,TC U 0.1-50V
C339	87-010-196-080		C-CAPACITOR,S 0.022-25
C340	87-010-178-080		C-CAP,S 1000P-50
C342	87-012-154-080		C-CAP,S 150P-50 CH
C343	87-010-196-080		C-CAPACITOR,S 0.1-25
C344	87-010-405-080		CAP,ELECT 10-50V
C345	87-010-320-080		C-CAP,S 68P-50
C346	87-012-154-080		C-CAP,S 150P-50 CH
C347	87-012-140-080		C-CAP,S 470P-50
C348	87-012-155-080		C-CAP,S 180P-50CH
C349	87-010-153-080		C-CAP,S 9P-50 CH
C350	87-018-134-080		CAPACITOR,TC-U 0.01-16
C351	87-018-123-080		CAP,TC U 220P-50V
C352	87-018-134-080		CAPACITOR,TC-U 0.01-16
C353	87-010-196-080		C-CAPACITOR,S 0.1-25
C356	87-010-196-080		C-CAPACITOR,S 0.1-25
C358	87-010-196-080		C-CAPACITOR,S 0.1-25
C360	87-010-196-080		C-CAPACITOR,S 0.1-25
C361	87-010-374-080		CAP,ELECT 47-10V
C362	87-010-263-080		CAP,ELECT 100-10V
C363	87-010-197-080		C-CAP,S 0.01-25 KB
C365	87-010-178-080		C-CAP,S 1000P-50
C366	87-012-157-080		C-CAP,S 330P-50 CH
C367	87-010-313-080		C-CAP,S 18P-50
C368	87-010-313-080		C-CAP,S 18P-50
C369	87-010-196-080		C-CAPACITOR,S 0.1-25
C371	87-012-156-080		C-CAP,S 220P-50 CH
C374	87-010-196-080		C-CAPACITOR,S 0.1-25
C375	87-010-196-080		C-CAPACITOR,S 0.1-25
C376	87-010-263-080		CAP,ELECT 100-10V
C377	87-010-322-080		C-CAP,S 100P-50 CH
C378	87-010-197-080		C-CAP,S 0.01-25 KB
C379	87-010-178-080		C-CAP,S 1000P-50
C381	87-010-178-080		C-CAP,S 1000P-50
C392	87-010-321-080		C-CAPACITOR,S 82P-50
C402	87-010-197-080		C-CAP,S 0.01-25 KB
C403	87-010-186-080		C-CAP,S 4700P-50
C404	87-010-196-080		C-CAPACITOR,S 0.1-25
C405	87-015-677-080		CAP,E 100-6.3 7L
C408	87-010-197-080		C-CAP,S 0.01-25 KB
C409	87-012-155-080		C-CAP,S 180P-50CH
C410	87-010-197-080		C-CAP,S 0.01-25 KB
C411	87-010-178-080		C-CAP,S 1000P-50
C413	87-015-677-080		CAP,E 100-6.3 7L
C414	87-010-196-080		C-CAPACITOR,S 0.1-25
C415	87-010-186-080		C-CAP,S 4700P-50
C450	87-010-401-080		CAP,ELECT 1-50V
C451	87-010-382-080		CAP,ELECT 22-25V
C452	87-010-197-080		C-CAP,S 0.01-25 KB
C453	87-010-197-080		C-CAP,S 0.01-25 KB
C454	87-010-196-080		C-CAPACITOR,S 0.1-25
C455	87-010-263-080		CAP,ELECT 100-10V
C456	87-010-405-080		CAP,ELECT 10-50V
C457	87-010-184-080		C-CAPACITOR,S 3300P-50
C458	87-010-178-080		C-CAP,1000P-50
C459	87-010-406-080		CAP,ELECT 22-50
C460	87-010-197-080		C-CAP,S 0.01-25 KB
C461	87-010-193-080		C-CAPACITOR,S 0.033-25
C462	87-010-196-080		C-CAPACITOR,S 0.1-25
C463	87-010-405-080		CAP,ELECT 10-50V
C464	87-010-197-080		C-CAP,S 0.01-25 KB
C465	87-010-182-080		C-CAP,S 2200P-50 KB
C466	87-010-176-080		C-CAP,S 680P-50 SL
C467	87-010-382-080		CAP,ELECT 22-25V
C468	87-010-196-080		C-CAP,S CAPACITOR,0.1-25
C469	87-010-382-080		CAP,ELECT 22-25V
C470	87-010-382-080		CAP,ELECT 22-25V
C471	87-010-196-080		C-CAP,S CAPACITOR,0.1-25
C472	87-010-183-080		C-CAP,S 2700P-50 KB
C473	87-012-365-080		C-CAP,S 0.027-25KB
C474	87-010-260-080		CAP,ELECT 47-25V
C476	87-012-156-080		C-CAP,S 220P-50 CH
C478	87-010-196-080		CAPACITOR,0.1-25
C479	87-010-382-080		CAP,ELECT 22-25V
C480	87-010-197-080		C-CAP,S 0.01-25 KB
C481	87-010-184-080		C-CAP,S CAPACITOR 3300P-50
C482	87-010-260-080		CAP,ELECT 47-25V
C553	87-010-370-080		CAP,E 330-6.3 SME
C555	87-010-405-080		CAP,ELECT 10-50V
C556	87-010-401-080		CAP,ELECT 1-50V
C558	87-010-405-080		CAP,ELECT 10-50V
C560	87-010-405-080		CAP,ELECT 10-50V
C563	87-010-382-080		CAP,ELECT 22-25V
C565	87-010-382-080		CAP,ELECT 22-25
C572	87-010-382-080		CAP,ELECT 22-25V
C573	87-010-263-080		CAP,ELECT 100-10V
C574	87-010-196-080		C-CAP,S CAPACITOR,0.1-25
C575	87-010-196-080		C-CAP,S CAPACITOR,0.1-25
C576	87-010-176-080		C-CAP,S 680P-50 SL
C577	87-010-196-080		C-CAP,S CAPACITOR,0.1-25
C578	87-010-805-080		CAP,S 1-16
C580	87-015-681-080		CAP,E 10-16 7L
C582	87-015-681-080		CAP,E 10-16 7L
C583	87-015-695-080		CAP,E 1-50 7L
C585	87-015-681-080		CAP,E 10-16 7L
C586	87-010-263-080		CAP,ELECT 100-10V
C587	87-010-196-080		C-CAP,S CAPACITOR,0.1-25

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
C588	87-015-695-080		CAP,E 1-50 7L
C590	87-015-695-080		CAP,E 1-50 7L
C594	87-010-382-080		CAP,ELECT 22-25V
C595	87-010-401-080		CAP,ELECT 1-50V
C597	87-010-071-080		CAP,ELECT 1-50 M 5L SRE
C599	87-010-244-080		CAP,ELECT 22-16
C683	87-010-263-080		CAP,ELECT 100-10V
C684	87-010-196-080		C-CAP,S CAPACITOR,0.1-25
CN508	87-A60-830-010		CONN,15P 15PV-FJ
CN101	87-A60-386-010		CONN,18P V BLK 5085 PLUG
CN102	87-099-843-010		CONN,15P V BLK 5085 PLUG
CN103	87-A60-583-010		CONN,10P V TKC-G10P
CN104	8Z-JU1-615-010		CONN,ASSY,2P LM
CN105	87-A60-635-010		CONN,19P 19P-250K-1.25FJNA
CN301	87-A60-582-010		CONN,5P V BGE TKX-P05P-X1
CN302	87-A60-842-010		CONN,18P V BLK FMN-BTRK
CN303	87-099-668-010		CONN,9P TUC-P 9P-B1
CN450	87-A60-132-010		CONN,7P V FE
CN451	8Z-JU1-608-010		CONN,2P V TMC-A02X
CN551	87-099-573-010		CONN,18P TUC-P18P-B1
CN552	87-A60-832-010		CONN,11P 11P-250K-1.25FJNA
FL101	8Z-JU1-602-010		FL,10-MT-113 G
H101	8Z-JU1-604-010		SNSR,HW-300B-15 -H2
HL101	8Z-JU1-203-010		HLDR,FL
HL102	8Z-JU1-205-010		HLDR,LED
HL103	8Z-JU1-206-010		HLDR,SENSOR
HL104	8Z-JU1-206-010		HLDR,SENSOR
HL105	8Z-JU1-207-010		HLDR,HALL SNSR
⚠ ICF50	87-001-196-080		PROTECTOR,ICP-N10
⚠ ICF51	87-002-330-080		PROTECTOR,ICP-N5
⚠ ICF101	87-001-132-080		PROTECTOR ICP-N38
⚠ ICF102	87-001-132-080		PROTECTOR ICP-N38
L101	87-005-432-080		COIL,10UH K FLR50
L102	87-005-684-080		COIL,10UH J LF5.0S
L103	87-005-440-080		COIL,47UH K FLR50
L104	87-005-684-080		COIL,10UH J LF5.0S
L105	87-005-684-080		COIL,0UH J LF5.0S
L106	87-005-684-080		COIL,10UH J LF5.0S
L107	87-005-684-080		COIL,10UH J LF5.0S
L108	87-005-684-080		COIL,10UH J LF5.0S
L109	87-005-432-080		COIL,10UH K FLR50
L110	87-005-432-080		COIL,10UH K FLR50
L111	87-005-432-080		COIL,10UH K FLR50
L112	87-005-684-080		COIL,10UH J FL5.0S
L113	87-005-684-080		COIL,10UH J LF5.0S
L114	87-005-684-080		COIL,10UH J LF5.0S
L301	87-005-432-080		COIL,10UH K FLR50
L302	87-005-440-080		COIL,47UH K FLR50
L303	87-005-440-080		COIL,47UH K FLR50
L304	87-005-432-080		COIL,10UH FLR50
L305	87-005-693-080		COIL,56UH J LF5.0S
L306	87-005-697-080		COIL,120UH J LFS5.0S
L310	87-005-440-080		COIL,47UH K FLR50
L311	87-005-432-080		COIL,10UH K FLR50
L313	87-005-488-080		COIL,180UH J FLR50
L314	87-005-688-080		COIL,22UH J LF5.0S
L315	87-005-684-080		COIL,10UH J LF5.0S
L401	87-005-440-080		COIL,47UH K FLR50
L402	87-005-440-080		COIL,47UH K FLR50
L450	87-005-432-080		COIL,10UH K FLR50
L451	87-005-440-080		COIL,47UH K FLR50
L452	8Z-JU1-644-010		COIL,OSC AE ZJU1
L453	87-005-440-080		COIL,47UH K FLR50
L454	8Z-JU1-643-010		COIL,OSC FE ZJU11
L551	87-005-432-080		COIL,10UH K FLR50
L552	87-005-432-080		COIL,10UH K FLR50
L553	87-005-432-080		COIL,10UH K FLR50
M101	8Z-JU1-609-010		STATOR,DMNVS
PS101	8Z-JU1-603-010		SNSR,GP15566
PS102	8Z-JU1-603-010		SNSR,GP15566

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
R90	87-029-115-010		FUSE RESISTER 10-1/4W
S101	8Z-JU1-605-010		SW,RTRY MODE SWITCH
S102	8Z-JU1-606-010		SW,LEAF REC SWITCH
X101	87-A70-090-080		VIB,XTAL 16MHZ AT-49
X102	87-030-364-010		VIB,XTAL 32 768KHZ CF5-308CT
X301	87-A70-188-080		VIB,XTAL 4.43MHZ TA1278
FR1C.B			
C701	87-010-197-080		C-CAP,S 0.01-25 K B C2012
C702	87-010-197-080		C-CAP,S 0.01-25 K B C2012
C703	87-010-550-040		CAP,E 100-63 M 5L SRE
C704	87-015-677-080		CAP,E 100-6.3 M 7L SRA
C706	87-010-263-080		CAP,E 100-10 M 11L SME
C707	87-010-322-080		C-CAP,S 100P-50 J CH GRM
CN701	87-099-841-010		CONN,15P H BLK 5085 RECE
HL701	86-JU1-201-210		HLDR,SENSOR A
HL702	8Z-JU1-202-010		HLDR,JOG
L701	87-005-690-080		COIL,33UH J LF5.0S
L703	87-005-684-080		COIL,10UH J LF5.0S
S701	87-A90-164-080		SW,TACT SKQAB(N)
S702	87-A90-164-080		SW,TACT SKQAB(N)
S703	87-A90-164-080		SW,TACT SKQAB(N)
S704	87-A90-164-080		SW,TACT SKQA(N)
S705	87-A91-307-010		SW,JOG RJS-Y0003-02
FR2 C.B			
C751	87-010-318-080		C-CAP,S 47P-50 J CH GRM
C752	87-010-176-080		C-CAP,S 680P-50 J SL
C753	87-010-176-080		C-CAP,S 680P-50 J SL
C754	87-010-176-080		C-CAP,S 680P-50 J SL
C755	87-010-079-080		CAP,E 100 6.3 M 5L SRE
C756	87-010-079-080		CAP,E 100-6.3 M 5L SRE
C757	87-010-197-080		C-CAP,S 0.01-25 K B C2012
CN751	87-A60-388-010		CONN,18P H BLK 5085 RECE
HL751	8Z-JU1-204-010		HLDR,LEDF
J751	87-A60-069-010		JACK,PIN 3P 15 VT B
L751	87-005-690-080		COIL,33UH J LF5.0S
S751	87-A90-164-080		SW,TACT SKQNAB(N)
S752	87-A90-164-080		SW,TACT SKQNAB(N)
S754	87-A90-164-080		SW,TACT SKQAB(N)
S755	87-A90-164-080		SW,TACT SKQAB(N)
S756	87-A90-164-080		SW,TACT SKQNAB(N)
S758	87-A90-164-080		SW,TACT SKQNAB(N)
S759	87-A90-164-080		SW,TACT SKQNAB(N)
REAR C.B			
C520	87-015-688-080		CAP,E 4.7-35 M 7L SRA
C521	87-015-688-080		CAP,E 4.7-35 M 7L SRA
C525	87-015-688-080		CAP,E 4.7-35 M 7L SRA
C528	87-015-684-080		CAP,E 47-16 M 7L SRA
C531	87-015-688-080		CAP,E 4.7-35 M 7L SRA
C534	87-010-196-080		CHIP CAPACITOR,S 0.1-25 ZFC2012
C535	87-010-060-080		CAP,E 100-16 M 7L SRA
C536	87-015-688-080		CAP,E 4.7-35 M 7L SRA
C537	87-015-688-080		CAP,E 4.7-35 M 7L SRA
C600	87-018-134-080		CAPACITOR,TC-U 0.01-16 N Y UP050
C601	87-018-134-080		CAPACITOR,TC-U 0.01-16 N Y UP050
C603	87-018-134-080		CAPACITOR,TC-U 0.01-16 N Y UP050
C604	87-018-134-080		CAPACITOR,TC-U 0.01-16 N Y UP050
C605	87-015-696-080		CAP,E 2.2-50 M 7L SRA
C606	87-015-696-080		CAP,E 2.2-50 M 7L SRA
C607	87-015-684-080		CAP,E 47-16 M 7L SRA
C608	87-015-696-080		CAP,E 2.2-50 M 7L SRA
C609	87-015-696-080		CAP,E 2.2-50 M 7L SRA
C610	87-015-696-080		CAP,E 2.2-50 M 7L SRA
C611	87-015-696-080		CAP,E 2.2-50 M 7L SRA
C612	87-A10-205-080		CAP,E 470-6.3 M SRG

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
C613	87-A10-205-080		CAP,E 470-6.3 M SRG
C614	87-010-805-080		CAP,S 1-16 Z F
C616	87-015-696-080		CAP,E 2.2-50 M 7L SRA
C617	87-015-696-080		CAP,E 2.2-50 M 7L SRA
C618	87-015-696-080		CAP,E 2.2-50 M 7L SRA
C619	87-015-696-080		CAP,E 2.2-50 M 7L SRA
C620	87-015-682-080		CAP,E 22-16 M 7L SRA
C621	87-010-196-080		CHIP CAPACITOR,S SRA 0.1-25 Z
C622	87-010-060-080		CAP,E 100-16 M 7L SRA
C623	87-010-196-080		CHIP CAPACITOR,S 0.1-25 Z F C2012
C624	87-015-682-080		CAP,E 22-16 M 7L SRA
C625	87-010-529-080		CAP,E 1-50 M BP
C626	87-010-197-080		CAP,CHIP S 0.01-25 K B C2012
C627	87-015-682-080		CAP,E 22-16 M 7L SRA
C628	87-010-197-080		CAP,CHIP 0.01-25 K B C2012
C629	87-015-677-080		CAP,E 100-6.3 M 7L SRA
C630	87-015-695-080		CAP,E 1-50 M 7L SRA
C631	87-012-154-080		C-CAP,S 150P-50 J CH GRM
C632	87-012-154-080		C-CAP,S 150P-50 J CH GRM
C633	87-010-322-080		C-CAP,S 100P-50 J CH GRM
C634	87-010-322-080		C-CAP,S 100P-50 J CH GRM
C635	87-012-154-080		C-CAP,S 150P-50 CH GRM
C636	87-012-154-080		C-CAP,S 150P-50 CH GRM
C637	87-010-197-080		C-CAP,S 0.01-25 K B C2012
C638	87-010-322-080		C-CAP,S 100P-50 CH GRM
C639	87-010-318-080		C-CAP,S 47P-50 CHGRM
C640	87-012-154-080		C-CAP,S 150P-50 CH GRM
C641	87-012-154-080		C-CAP,S 150P-50 CHGRM
C642	87-010-322-080		C-CAP,S 100P-50 CHGRM
C643	87-010-322-080		C-CAP,S 100P-50 CHGRM
C644	87-012-154-080		C-CAP,S 150P-50J CHGRM
C645	87-012-154-080		C-CAP,S 150P-50 CHGRM
C647	87-010-178-080		CHIP CAPS 1000P50 K B C2012
C648	87-010-322-080		C-CAP,S 100P-50J CHGRM
C649	87-010-322-080		C-CAP,S 100P-50 CHGRM
C650	87-010-322-080		C-CAP,S 100P-50 CHGRM
C651	87-010-322-080		C-CAP,S 100P-50 CHGRM
C653	87-010-318-080		C-CAP,S 47P-50 CHGRM
C654	87-012-154-080		C-CAP,S 150P-50 CHRM
C655	87-012-154-080		C-CAP,S 150P-50 J CH GRM
C656	87-012-154-080		C-CAP,S 150P-50 J CH GRM
C657	87-012-154-080		C-CAP,S 150P-50 J CH GRM
C662	87-010-197-080		C-CAP,S 0.01-25 K B C2012
C664	87-015-696-080		CAP,E 2.2-50 M 7L SRA
C665	87-015-696-080		CAP,E 2.2-50 M 7L SRA
CN501	87-099-562-010		CONN,18P TUC-P18X-B1
CN600	87-099-670-010		CONN,9P TUC-P9X-B1
CN601	87-A60-417-010		CONN,21P V BLK 0350535000
CN602	87-A60-417-010		CONN,21P V BLK 0350535000
FB600	87-003-223-080		FERRITE BEAD BL02RN2
J600	87-A60-368-010		JACK,PIN 2P JK020123
L501	87-005-432-080		COIL,10UH K FLR50
L600	87-005-440-080		COIL,47UH K FLR50
L601	87-005-440-080		COIL,47UH K FLR50

MPX C.B

C912	87-012-156-080		C-CAP,S 220P-50 J C,g GRM
C913	87-012-140-080		C-CAP,S 470,o-50 J CH
C914	87-010-180-080		C-CAP,S 1500,o-50 K B C2012
C915	87-010-405-080		CAP,E 10-50 M ML SME
C916	87-010-197-080		C-CAP,S 0.01-25 K B C2012
C920	87-010-805-080		C-CAP,S 1-16 Z F
C923	87-010-197-080		C-CAP,S 0.01-25 K B C2012
C924	87-010-197-080		C-CAP,S 0.01-25 K B C2012
C926	87-010-316-080		C-CAP,S 33P-50 J C,g GRM
C927	87-010-145-080		C-CAP,S 1P-50 C C,g GRM
C928	87-010-145-080		C-CAP,S 1P-50 C C,g GRM
C929	87-010-315-080		C-CAP,S 27P-50 J CH<K>
C929	87-010-317-080		C-CAP,S 39P-50 J CH<EH>
C930	87-010-319-080		C-CAP,S 56P-50 J CH
C931	87-010-178-080		C-CAP,S 1000P-50 K B C2012
C933	87-010-405-080		CAP,E 10-50 M ML SME
C934	87-010-180-080		C-CAP,S 1500P-50 K B C2012
C935	87-012-140-080		C-CAP,S 470P- 50 J CH
C937	87-010-405-080		CAP,E 10-50 M ML SME
C938	87-010-196-080		C-CAP,S 0.1-25 Z F C2012
C939	87-010-197-080		C-CAP,S 0.01-25 K B C2012
C940	87-010-197-080		C-CAP,S 0.01-25 K B C2012
C945	87-010-403-080		CAP,E 3.3-50 M 11L SME
C946	87-010-196-080		C-CAP,S 0.1-25 Z F C2012
C947	87-010-196-080		C-CAP,S 0.1-25 Z F C2012
C948	87-010-405-080		CAP,E 10-50 M ML SME
C949	87-010-405-080		CAP,E 10-50 M ML SME
C950	87-010-180-080		C-CAP,S 1500P-50 K B C2012
C951	87-012-140-080		C-CAP,S 470P-50 J CH
C953	87-010-197-080		C-CAP,S 0.01-25 K B C2012
C951	87-010-197-080		C-CAP,S 0.01-25 K B C2012
C955	87-010-406-080		CAP,E 22-50 M 11L SME
C956	87-010-406-080		CAP,E 22-50 M 11L SME
C959	87-010-805-080		C-CAP,S 1-16 Z F
C962	87-012-154-080		C-CAP,S 150P-50 J CH GRM
C963	87-010-318-080		C-CAP,S 47P-50 J CH GRM
C964	87-010-196-080		CAP,S 0.1-25 Z F C2022
CN901	87-999-670-010		CONN,9P TUC-P9X-B1
L901	87-005-425-080		COIL,2.7UH K FLR50
L902	87-005-425-080		COIL,2.7UH K FLR50
L903	87-005-432-080		COIL,10UH K FLR50
L904	87-005-688-080		COIL,22UH J LF5.0S
X901	87-A70-199-080		VIB,XTAL 18.432MHZ

TUNER C.B

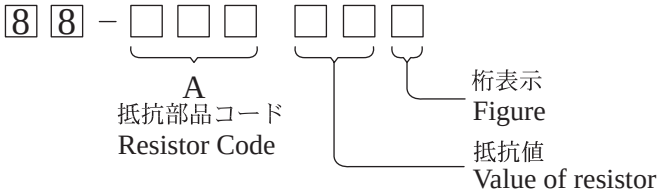
C801	87-010-197-080		C-CAP,S 0.01-25 K B C2012
C803	87-010-197-080		C-CAP,S 0.01-25 K B C2012
C804	87-010-197-080		C-CAP,S 0.01-25 K B C2012
C805	87-010-197-080		C-CAP,S 0.01-25 K B C2012
C806	87-010-197-080		C-CAP,S 0.01-25 K B C2012
C807	87-010-197-080		C-CAP,S 0.01-25 K B C2012
C809	87-010-178-080		C-CAP,S 1000P-50 K B C2012
C810	87-010-185-080		C-CAP,S 3900P-50 K B
C811	87-010-196-080		C-CAP,S 0.1-25 Z F C2012
C812	87-010-382-080		CAP,E 22-25 M 11L SME
C813	87-010-196-080		C-CAP,S 0.1-25 Z F C2012
C814	87-010-405-080		CAP,E 10-50 M 11L SME
C815	87-010-194-080		C-CAP,S 0.047-25 Z F<EH>
C816	87-010-196-080		C-CAP,S 0.1-25 Z F C2012
C817	87-010-374-080		CAP,E 47-10 M 11L SME
C818	87-010-196-080		C-CAP,S 0.1-25 Z F C2012
C819	87-010-178-080		C-CAP,S 1000P-50 K B C2012
C820	87-010-197-080		C-CAP,S 0.01-25 K B C2012
C821	87-010-374-080		CAP,E 47-10 M 11L SME
C822	87-010-178-080		C-CAP,S 1000P-50 K B C2012
C823	87-012-368-080		C-CAP,S 0.1-50 Z F
C824	87-010-408-080		CAP,E 47-50 M 11L SME
C825	87-010-196-080		C-CAP,S 0.1-25 Z F C2012
C826	87-010-374-080		CAP,E 47-10 M 11L SME
C827	87-010-178-080		C-CAP,S 1000P-50 K B C2012
C828	87-010-197-080		C-CAP,S 0.01-25 K B C2012
C829	87-010-374-080		CAP,E 47-10 M 11L SME
C830	87-010-197-080		C-CAP,S 0.01-25 K B C2012
C851	87-010-263-080		CAP,E 100-10 M 11L SME
C852	87-010-180-080		C-CAP,S 1500P-50 K B C2012
C853	87-A10-468-080		CAP,E 10-10 M 7L BP SRA
C854	87-010-805-080		C-CAP,S 1-16 Z F
C855	87-012-154-080		C-CAP,S 150P-50 J CH GRM
C856	87-010-182-080		C-CAP,S 2200P-50 K B C2012
C857	87-010-193-080		C-CAP,S 0.033-25 Z F C2012
C860	87-010-197-080		C-CAP,S 0.01-25 K B C2012
CN801	87-A60-636-010		CONN,19P 19RK-1.25FJN
CN802	87-A60-834-010		CONN,11P 11RK-1.25FJN
CN803	87-099-668-010		CONN,9P TUC-P 9P-B1

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
FB803	87-008-372-080		FILTER, EMI BLO1#RNN
FB851	87-008-372-080		FILTER, EMI BLO1#RNN
L801	87-005-430-080		COIL,6.8UH K FLR50
L802	87-005-432-080		COIL,10UH K FLR50
L803	87-005-440-080		COIL,47UH K FLR50
L804	87-005-440-080		COIL,47UH K FLR50
L851	87-005-432-080		COIL,10UH K FLR50
TU801	8Z-JU1-640-010		TU UNIT,I PAL SIF<K>
TU801	8Z-JU1-641-010		TU UNIT,BG PAL SIF<EH>
PS C.B			
⚠ C001	87-A10-374-010		CAP,M/P 0.1-275 M MKT 1.40 6-2
⚠ C007	87-A10-480-090		CAP,CER 4700P-250 M E KH
⚠ C008	87-A10-480-090		CAP,CER 4700P-250 M E KH
C9	87-A10-898-090		CAP,E 56-400 SMG 0.43A(RMS)
C10	87-A11-196-080		CAP,M/P 0.022-400 K MMC
C13	87-A11-194-080		CAP,CER 47P-2K K SL
C14	87-016-501-080		CAP,E 47-35 M 105 SXE
C15	87-010-190-080		C-CAP,S 0.01-50 Z F C2012
C20	87-010-866-080		CAP,E 10-63 M VX
C21	87-A11-195-080		CAP,E 330-50 KMF
C22	87-010-409-080		CAP,E 220-50 M SME
C23	87-A10-493-080		CAP,E 1000-25 KMF
C24	87-010-387-080		CAP,E 470-25-M SME
C25	87-010-101-080		CAP,E 220-16M SME
C26	87-010-401-080		CAP,E 1-50 M 11L SME
C27	87-A10-491-080		CAP,E 2200-10 KMF
C28	87-010-377-090		CAP,E 3300-10 M SME
C29	87-010-247-080		CAP,E 100-50 M SME
C30	87-010-221-080		CAP,E 470-10 M SME
CN1	87-A60-831-010		CONN,15P 15R-FJ

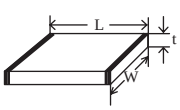
REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
⚠ F1	87-035-454-010		FUSE,1.6A 250V T 218
FB1	87-003-223-080		FERRITE BEAD BL02RN2
⚠ FC1	87-033-213-080		CLAMP,FUSE PFC500
⚠ FC2	87-033-213-080		CLAMP,FUSE PFC500
⚠ ICF2	87-A91-337-080		PROTECTOR,IC ICP-N75
⚠ ICF3	87-001-211-080		PROTECTOR,IC ICP-N50
⚠ ICF4	87-001-132-080		PROTECTOR,IC ICP-N38
⚠ ICF5	87-001-132-080		PROTECTOR,IC ICP-N38
⚠ ICF6	87-A91-337-080		PROTECTOR,IC ICP-N75
⚠ J001	87-A60-021-010		JACK,AC E BLK W/O SW HJC-028
L1	87-A50-193-080		COIL,10UH K LHL10
L2	87-A50-180-080		COIL,22UH K LHL10
L3	87-A50-444-080		COIL,22UH K LHL08
⚠ LF001	87-A90-491-010		FLTR,20UH SU9VD-07020A
⚠ LF002	87-A90-470-010		FLTR,33MH SS10V-03330
⚠ LF003	87-A90-470-010		FLTR,33MH SS10V-03330
⚠ PS001	87-A90-717-010		P-COUPLER,PC123FY2
⚠ PT001	8Z-JU1-630-010		PT,E ZJU-1 SWT
R1	87-022-565-090		RES,M/F 47K-1W J
R2	87-A00-410-090		RES,M/F 100K-1W J
R3	87-A00-558-090		RES,M/F 56K-2W J
R14	87-A00-254-090		RES,M/F 0.68-2W J
R24	87-A00-279-080		RES,M/F 75-1/6W F
R25	87-025-365-080		RES,M/F 680-1/6W F
R26	87-025-365-080		RES,M/F 680-1/6W F
R41	87-029-374-010		RES,FUSE 47-1/4W J
R42	87-029-132-090		RESTOR FUSE 4.7-1/4W J

○チップ抵抗部品コード／CHIP RESISTOR PART CODE

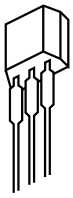
チップ抵抗部品コードの成り立ち
Chip Resistor Part Coding



チップ抵抗
Chip resistor

容量 Wattage	種類 Type	許容誤差 Tolerance	記号 Symbol	寸法／Dimensions (mm) 外形／Form	L	W	t	抵抗コード : A Resistor Code : A
1/16W	1005	± 5%	CJ		1.0	0.5	0.35	104
1/16W	1608	± 5%	CJ		1.6	0.8	0.45	108
1/10W	2125	± 5%	CJ		2	1.25	0.45	118
1/8W	3216	± 5%	CJ		3.2	1.6	0.55	128

TRANSISTOR ILLUSTRATION

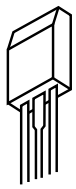


E C B

2SA933AS
2SC1741AS

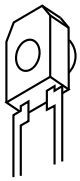
E C B

2SC3708ST



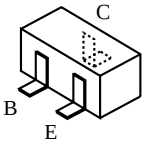
B C E

2SB1237
2SB1443



C E

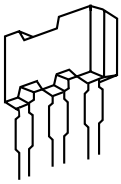
PT493F



2SA1037
2SC2412K
DTA114EK
DTC114EK
DTC143TK
DTC144EK
KRA104S
KRC102S

E C B

2SB1436

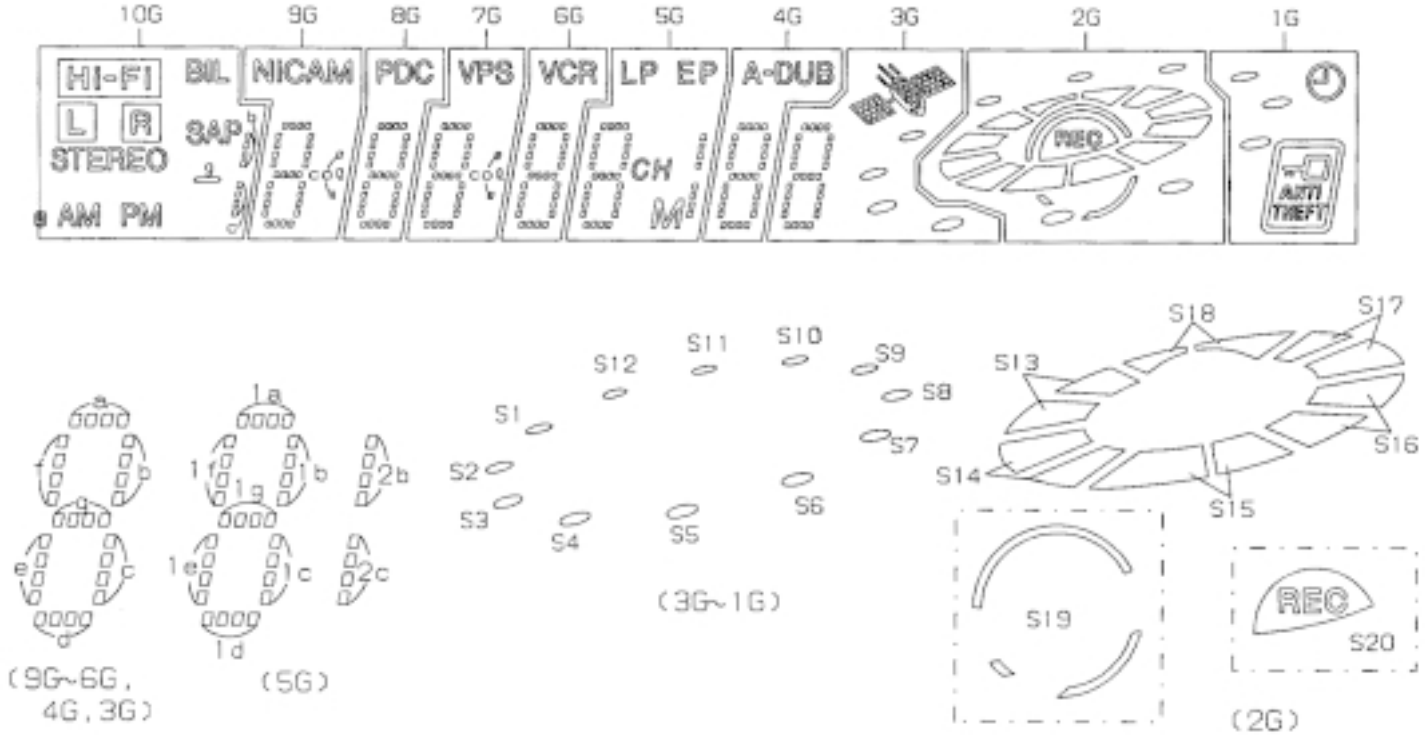


E C B

2SD1858TV2

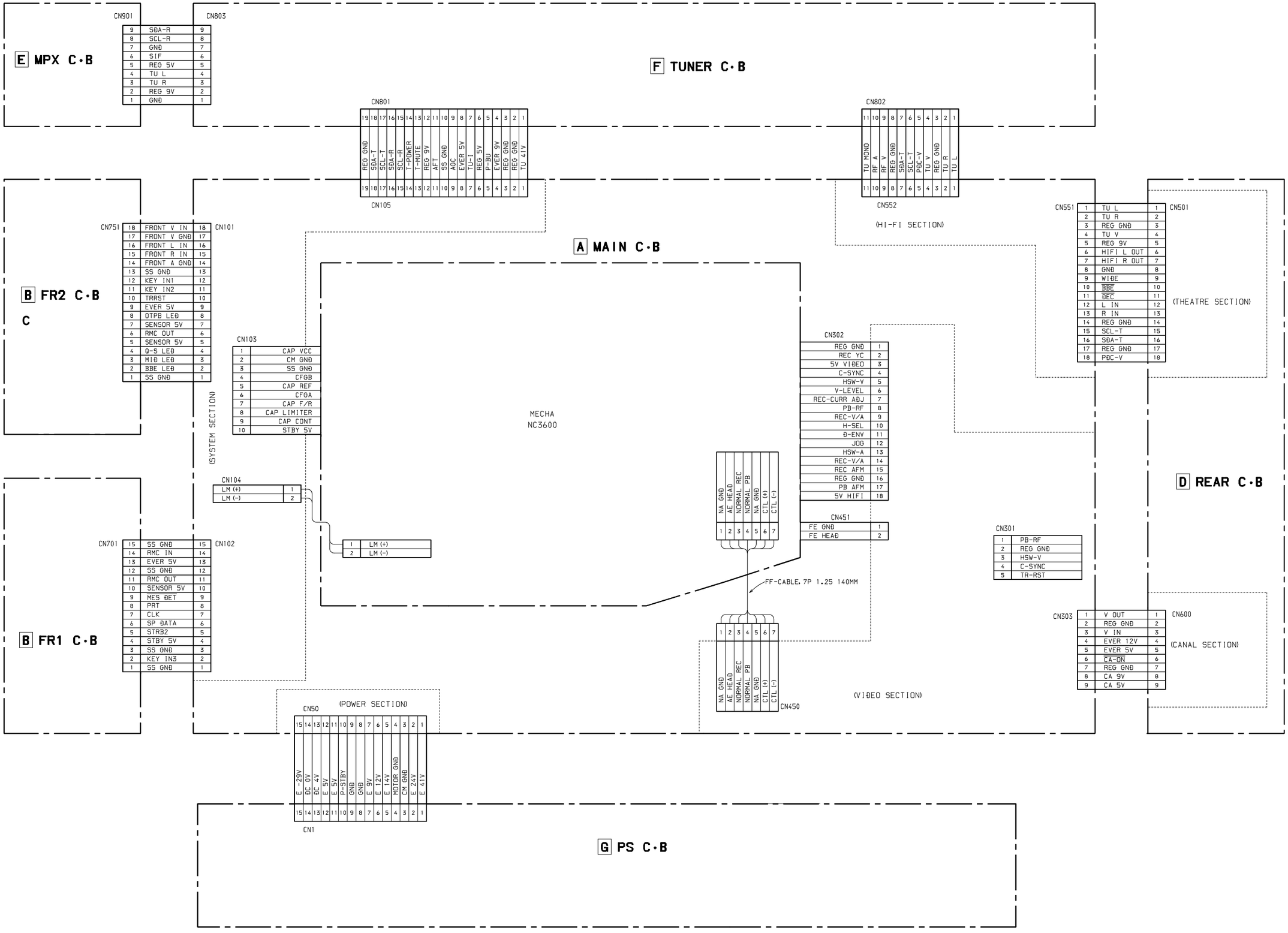
FL (10-MT-113G) GRID ASSIGNMENT & ANODE CONNECTION

GRID ASSIGNMENT

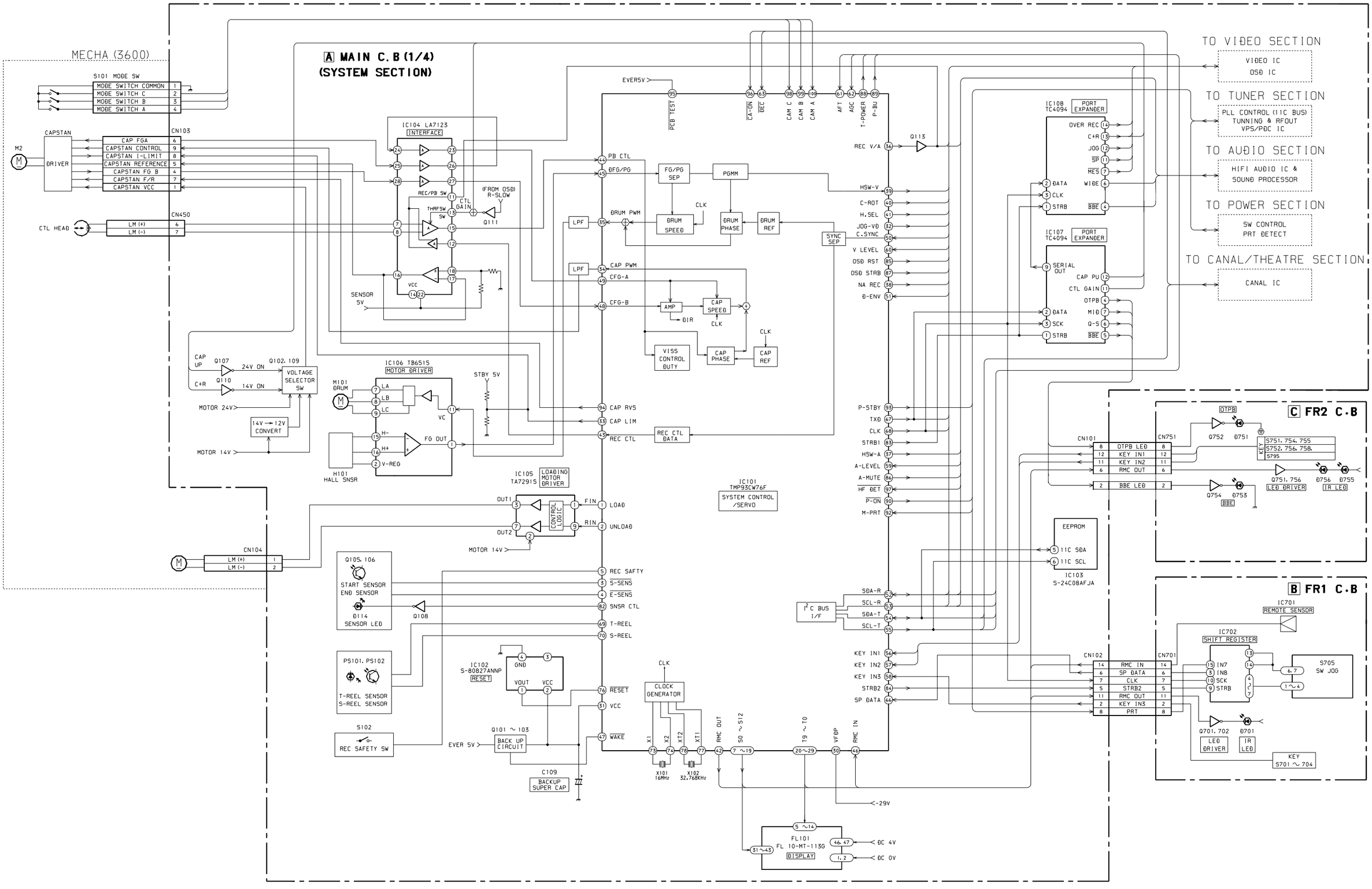


ANODE CONNECTION

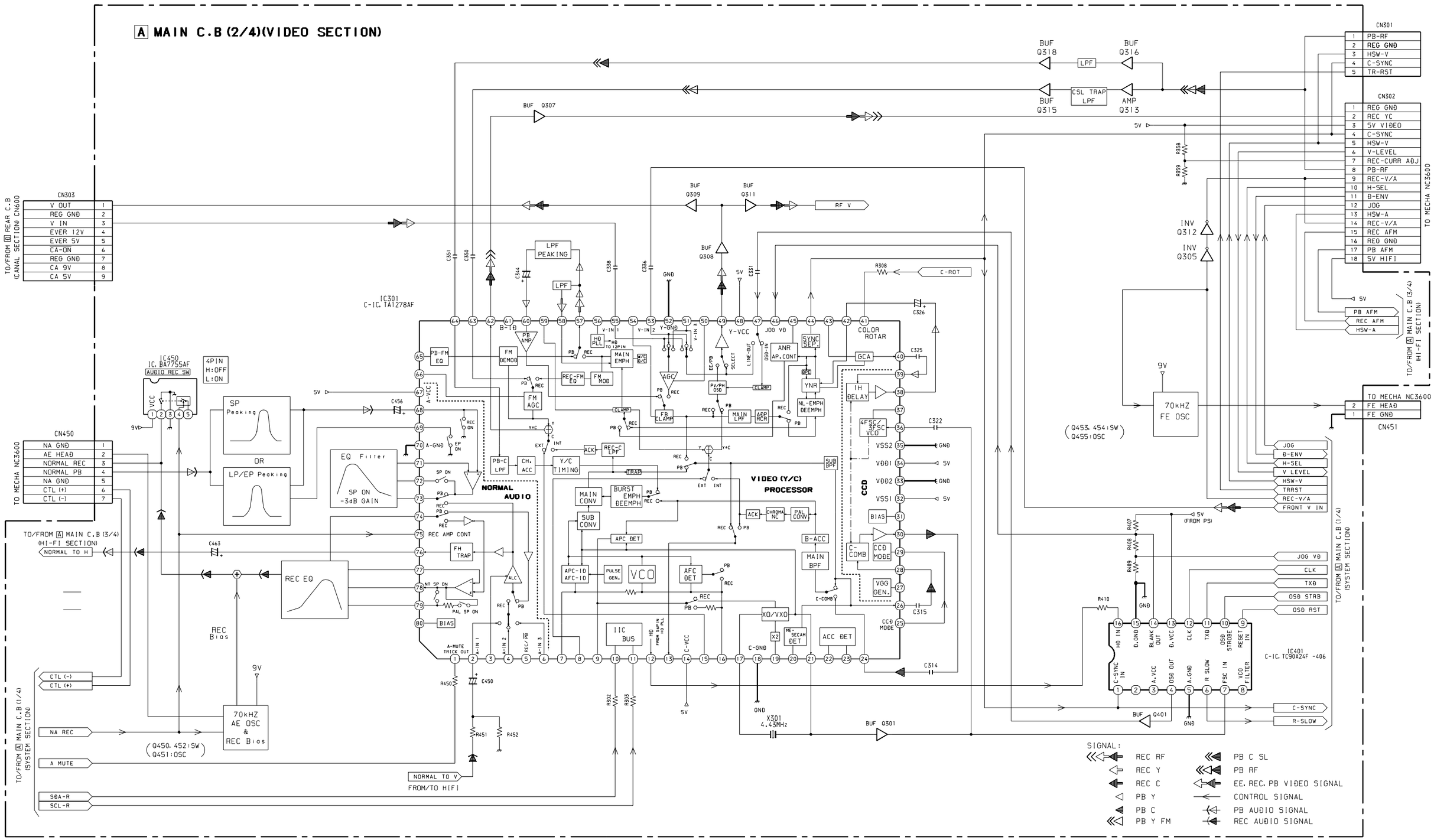
	10G	9G	8G	7G	6G	5G	4G	3G	2G	1G
P1	HI-FI	a	a	a	a	1a	a	a	S5	S7
P2	L	-	-	-	-	LP	-	-	S6	S8
P3	R	b	b	b	b	1b	b	b	S10	S9
P4	STEREO	f	f	f	f	1f	f	f	S11	
P5	AM	g	g	g	g	1g	g	g	S12	
P6	PM	c	c	c	c	1c	c	c	S13	-
P7	BIL	e	e	e	e	1e	e	e	S14	-
P8	SAP	-	-	-	-	EP	-	S1	S15	-
P9	g	-	-	-	-	CH	-	S2	S16	-
P10	b	d	d	d	d	1d	d	d	S17	-
P11	c	col	-	col	-	M	-	S3	S18	-
P12	-	NICAM	PDC	VPS	VCR	2b	A-DUB	S4	S19	-
P13	-	-	-	-	-	2c	-		S20	-

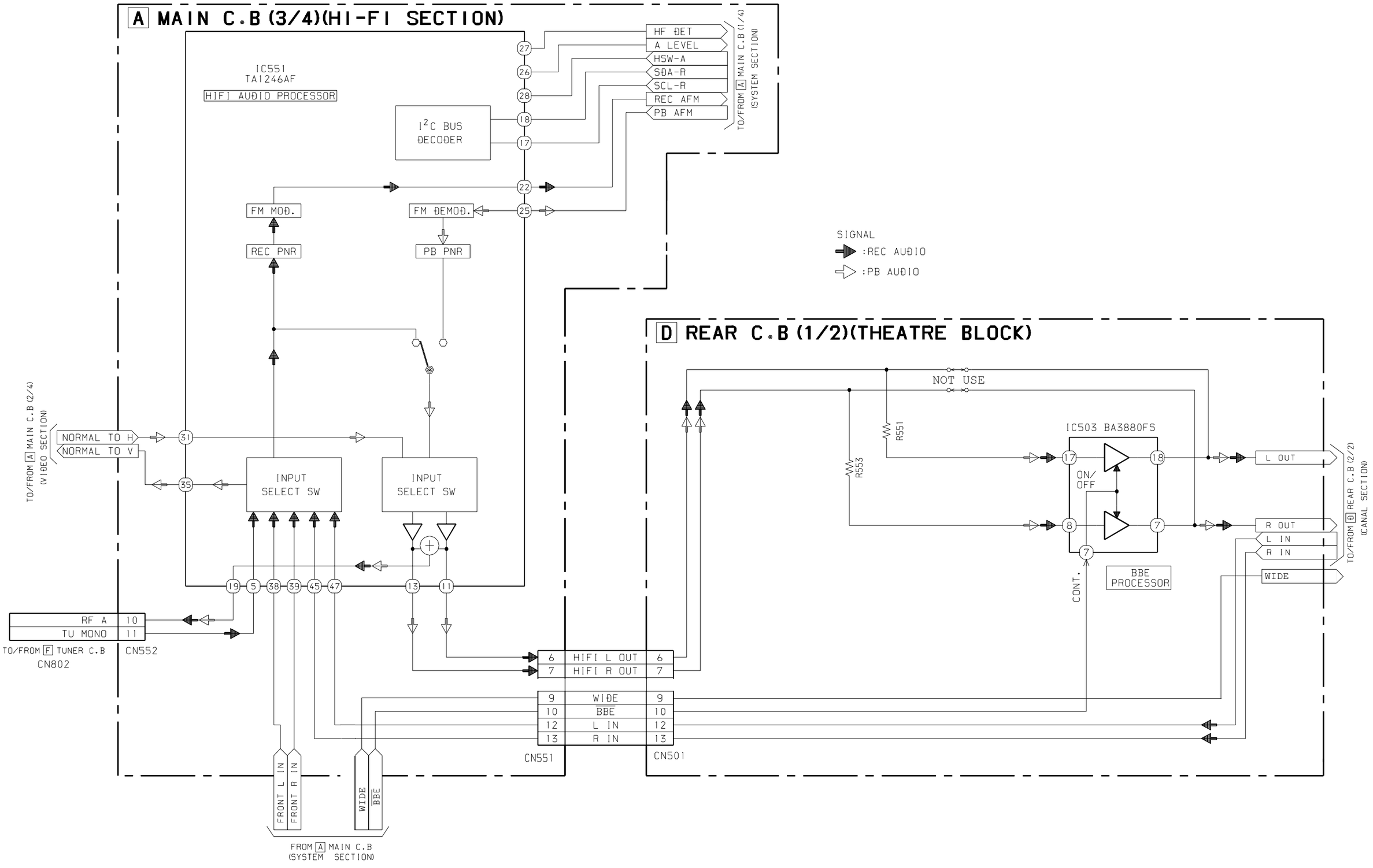

E MPX C·B
CN901
CN803
9 SDA-R 9
8 SCL-R 8
7 GND 7
6 SIF 6
5 REG 5V 5
4 TU L 4
3 TU R 3
2 REG 9V 2
1 GND 1
F TUNER C·B
CN801
19 18 17 16 15 14 13 12 11 10 9 8 7 6 5 4 3 2 1
REG GND
SDA-T
SCL-T
SDA-R
SCL-R
T-POWER
T-MUTE
REG 9V
AFT
SS GND
AGC
EVER 5V
TU-I
REG 5V
P-BU
EVER 9V
REG GND
REG GND
TU 41V
CN105
CN802
11 10 9 8 7 6 5 4 3 2 1
TU MONO
RF A
RF V
REG GND
SDA-T
SCL-T
PDC-V
TU V
REG GND
TU R
TU L
CN552
(HI-FI SECTION)
CN551
1 TU L 1
2 TU R 2
3 REG GND 3
4 TU V 4
5 REG 9V 5
6 HIFI L OUT 6
7 HIFI R OUT 7
8 GND 8
9 WIDE 9
10 BBE 10
11 DEC 11
12 L IN 12
13 R IN 13
14 REG GND 14
15 SCL-T 15
16 SDA-T 16
17 REG GND 17
18 PDC-V 18
CN501
(THEATRE SECTION)
A MAIN C·B
B FR2 C·B
C
CN751
18 FRONT V IN 18
17 FRONT V GND 17
16 FRONT L IN 16
15 FRONT R IN 15
14 FRONT A GND 14
13 SS GND 13
12 KEY IN1 12
11 KEY IN2 11
10 TRRST 10
9 EVER 5V 9
8 OTPB LED 8
7 SENSOR 5V 7
6 RMC OUT 6
5 SENSOR 5V 5
4 Q-S LED 4
3 MID LED 3
2 BBE LED 2
1 SS GND 1
CN101
CN103
1 CAP VCC
2 CM GND
3 SS GND
4 CFGB
5 CAP REF
6 CFGA
7 CAP F/R
8 CAP LIMITER
9 CAP CONT
10 STBY 5V
(SYSTEM SECTION)
MECHA
NC3600
CN302
REG GND 1
REC YC 2
5V VIDEO 3
C-SYNC 4
HSW-V 5
V-LEVEL 6
REC-CURR ADJ 7
PB-RF 8
REC-V/A 9
H-SEL 10
D-ENV 11
JOG 12
HSW-A 13
REC-V/A 14
REC AFM 15
REG GND 16
PB AFM 17
5V HIFI 18
CN104
LM (+) 1
LM (-) 2
1 LM (+)
2 LM (-)
NA GND
AE HEAD
NORMAL REC
NORMAL PB
NA GND
CTL (+)
CTL (-)
1 2 3 4 5 6 7
CN451
FE GND 1
FE HEAD 2
CN301
1 PB-RF
2 REG GND
3 HSW-V
4 C-SYNC
5 TR-RST
D REAR C·B
FF-CABLE, 7P 1.25 140MM
CN303
1 V OUT 1
2 REG GND 2
3 V IN 3
4 EVER 12V 4
5 EVER 5V 5
6 CA-ON 6
7 REG GND 7
8 CA 9V 8
9 CA 5V 9
CN600
(CANAL SECTION)
CN701
15 SS GND 15
14 RMC IN 14
13 EVER 5V 13
12 SS GND 12
11 RMC OUT 11
10 SENSOR 5V 10
9 MES DET 9
8 PRT 8
7 CLK 7
6 SP DATA 6
5 STRB2 5
4 STBY 5V 4
3 SS GND 3
2 KEY IN3 2
1 SS GND 1
CN102
B FR1 C·B
(POWER SECTION)
CN50
15 14 13 12 11 10 9 8 7 6 5 4 3 2 1
E -29V
DC 0V
DC 4V
E 5V
E 5V
P-STBY
GND
GND
E 9V
E 12V
E 14V
MOTOR GND
CM GND
E 24V
E 41V
CN1
CN450
(VIDEO SECTION)
G PS C·B

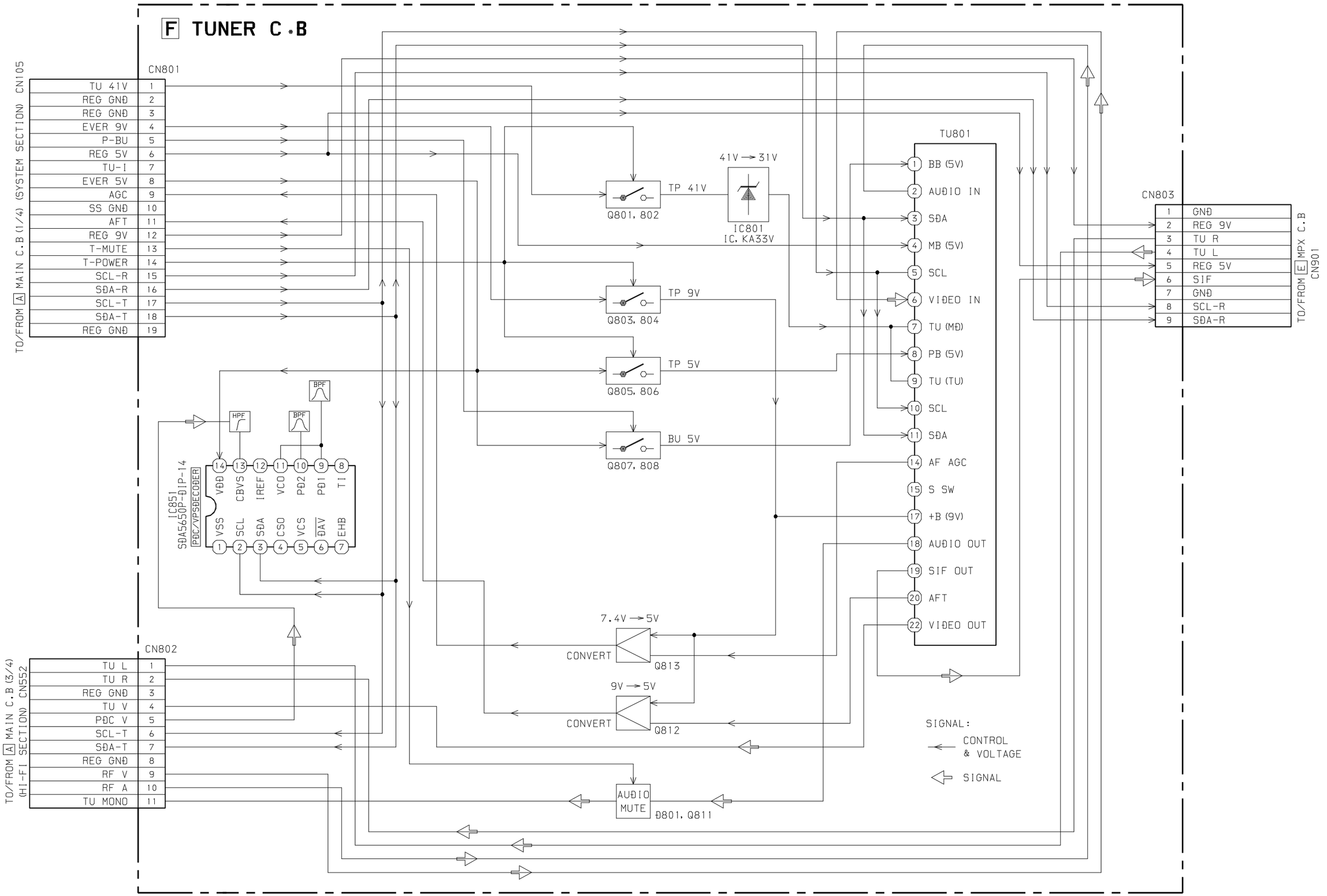
BLOCK DIAGRAM – 1 (SYSCON / SERVO)

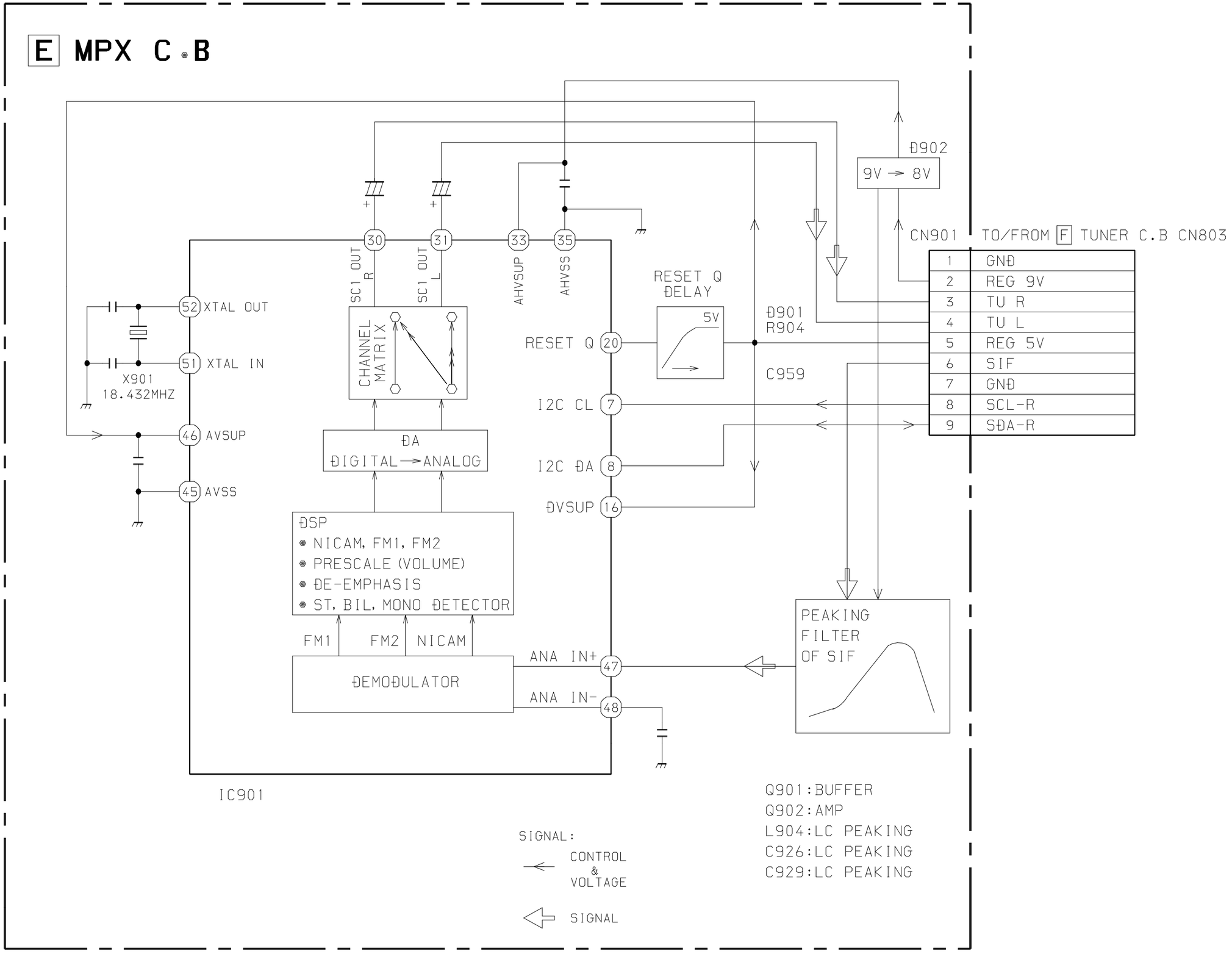


BLOCK DIAGRAM – 2 (VIDEO)

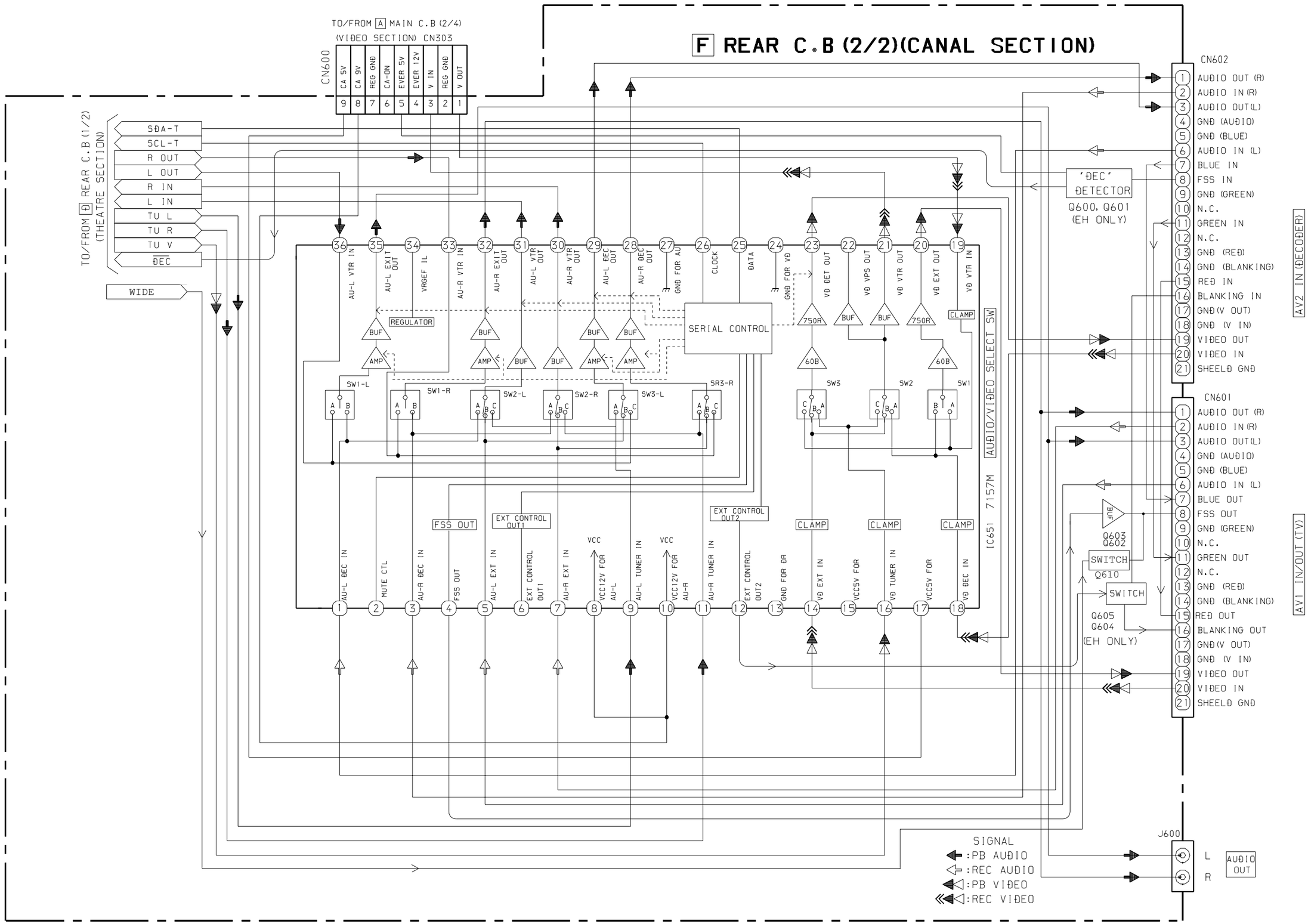



A MAIN C.B (3/4)(HI-FI SECTION)
IC551
TA1246AF
HIFI AUDIO PROCESSOR
I2C BUS DECODER
HF DET
A LEVEL
HSW-A
SDA-R
SCL-R
REC AFM
PB AFM
TO/FROM A MAIN C.B (1/4) (SYSTEM SECTION)
FM MOD.
FM DEMOD.
REC PNR
PB PNR
SIGNAL
:REC AUDIO
:PB AUDIO
D REAR C.B (1/2)(THEATRE BLOCK)
NOT USE
R551
R553
IC503 BA3880FS
ON/ OFF
L OUT
R OUT
L IN
R IN
WIDE
CONT.
BBE PROCESSOR
TO/FROM D REAR C.B (2/2) (CANAL SECTION)
TO/FROM A MAIN C.B (2/4) (VIDEO SECTION)
NORMAL TO H
NORMAL TO V
INPUT SELECT SW
INPUT SELECT SW
RF A 10
TU MONO 11
TO/FROM F TUNER C.B
CN802
CN552
6 HIFI L OUT 6
7 HIFI R OUT 7
9 WIDE 9
10 BBE 10
12 L IN 12
13 R IN 13
CN551
CN501
FRONT L IN
FRONT R IN
WIDE
BBE
FROM A MAIN C.B (SYSTEM SECTION)

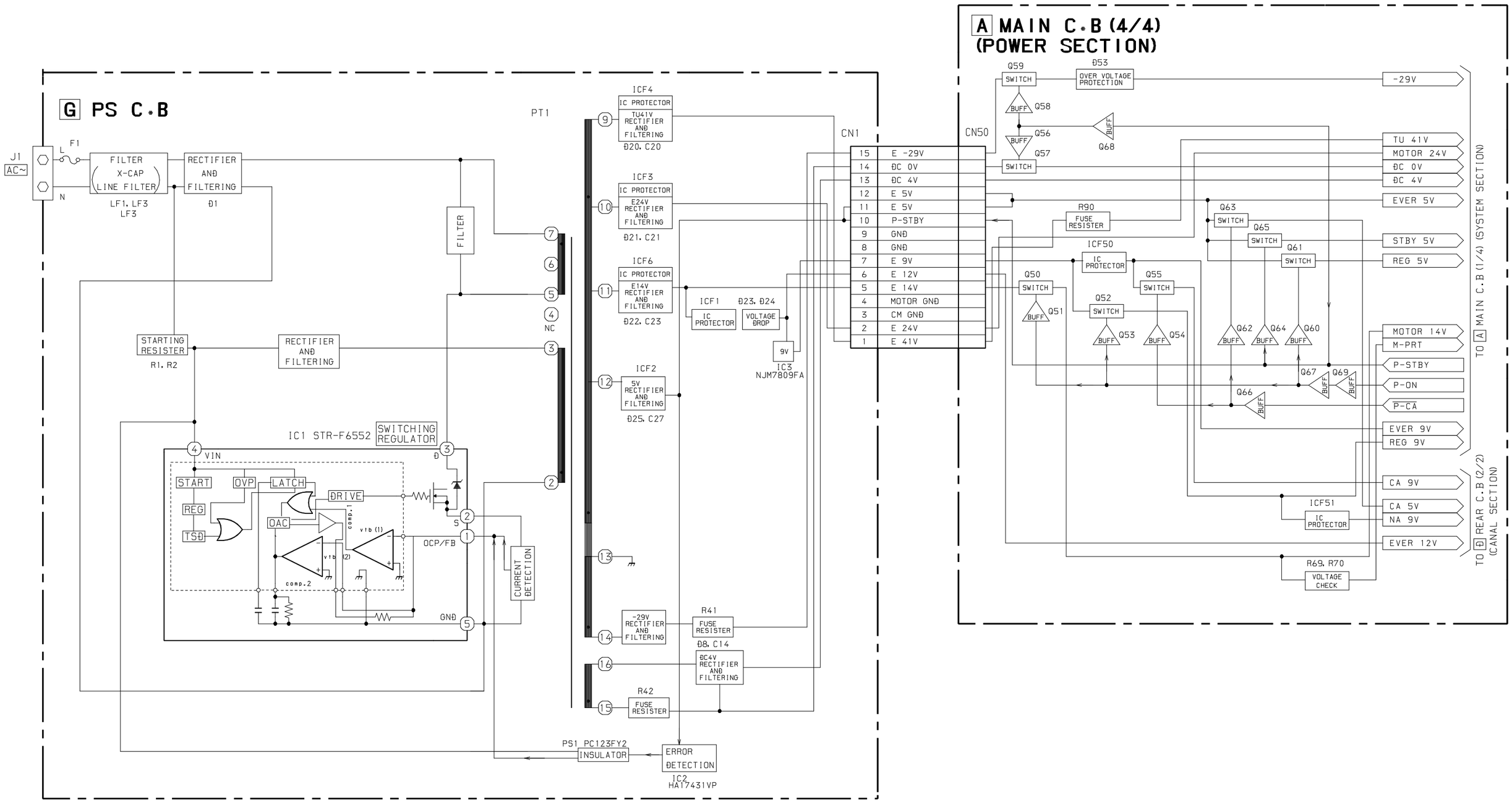

F TUNER C.B
CN801
TO/FROM A MAIN C.B (1/4) (SYSTEM SECTION) CN105
TU 41V 1
REG GND 2
REG GND 3
EVER 9V 4
P-BU 5
REG 5V 6
TU-I 7
EVER 5V 8
AGC 9
SS GND 10
AFT 11
REG 9V 12
T-MUTE 13
T-POWER 14
SCL-R 15
SDA-R 16
SCL-T 17
SDA-T 18
REG GND 19
TP 41V
Q801, 802
41V → 31V
IC801
IC. KA33V
TP 9V
Q803, 804
TP 5V
Q805, 806
BU 5V
Q807, 808
TU801
1 BB (5V)
2 AUDIO IN
3 SDA
4 MB (5V)
5 SCL
6 VIDEO IN
7 TU (MD)
8 PB (5V)
9 TU (TU)
10 SCL
11 SDA
14 AF AGC
15 S SW
17 +B (9V)
18 AUDIO OUT
19 SIF OUT
20 AFT
22 VIDEO OUT
CN803
1 GND
2 REG 9V
3 TU R
4 TU L
5 REG 5V
6 SIF
7 GND
8 SCL-R
9 SDA-R
TO/FROM E MPX C.B CN901
BPF
HPF
BPF
IC851
SDA5650P-DIP-14
PDC/VPSDECODER
14 VDD
13 CBVS
12 IREF
11 VCO
10 PD2
9 PD1
8 TI
1 VSS
2 SCL
3 SDA
4 CSO
5 VCS
6 DAV
7 EHB
7.4V → 5V
CONVERT
Q813
9V → 5V
CONVERT
Q812
AUDIO MUTE
D801, Q811
CN802
TO/FROM A MAIN C.B (3/4) (HI-FI SECTION) CN552
TU L 1
TU R 2
REG GND 3
TU V 4
PDC V 5
SCL-T 6
SDA-T 7
REG GND 8
RF V 9
RF A 10
TU MONO 11
SIGNAL:
CONTROL & VOLTAGE
SIGNAL


E MPX C.B
Đ902
9V → 8V
CN901
TO/FROM F TUNER C.B CN803
1 GNĐ
2 REG 9V
3 TU R
4 TU L
5 REG 5V
6 SIF
7 GNĐ
8 SCL-R
9 SĐA-R
30
31
33
35
SC1 OUT R
SC1 OUT L
AHVSUP
AHVSS
RESET Q ĐELAY
5V
Đ901 R904
C959
52 XTAL OUT
51 XTAL IN
X901 18.432MHZ
46 AVSUP
45 AVSS
CHANNEL MATRIX
ĐA ĐIGITAL → ANALOG
RESET Q 20
I2C CL 7
I2C ĐA 8
ĐVSUP 16
ĐSP
NICAM, FM1, FM2
PRESCALE (VOLUME)
ĐE-EMPHASIS
ST, BIL, MONO ĐETECTOR
FM1
FM2
NICAM
ĐEMOĐULATOR
ANA IN+ 47
ANA IN- 48
PEAKING FILTER OF SIF
IC901
Q901:BUFFER
Q902:AMP
L904:LC PEAKING
C926:LC PEAKING
C929:LC PEAKING
SIGNAL:
CONTROL & VOLTAGE
SIGNAL

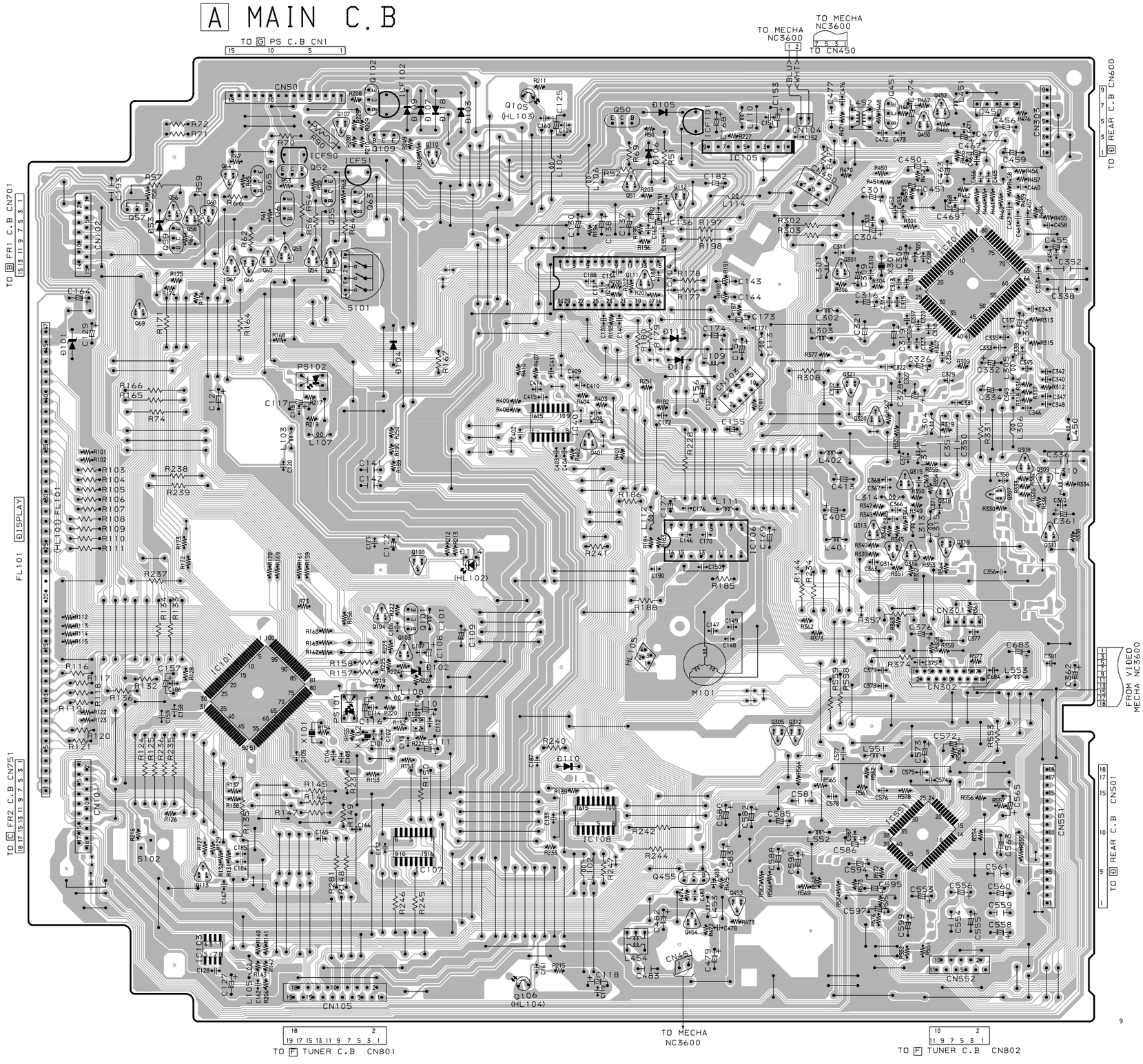
BLOCK DIAGRAM – 6 (CANAL)



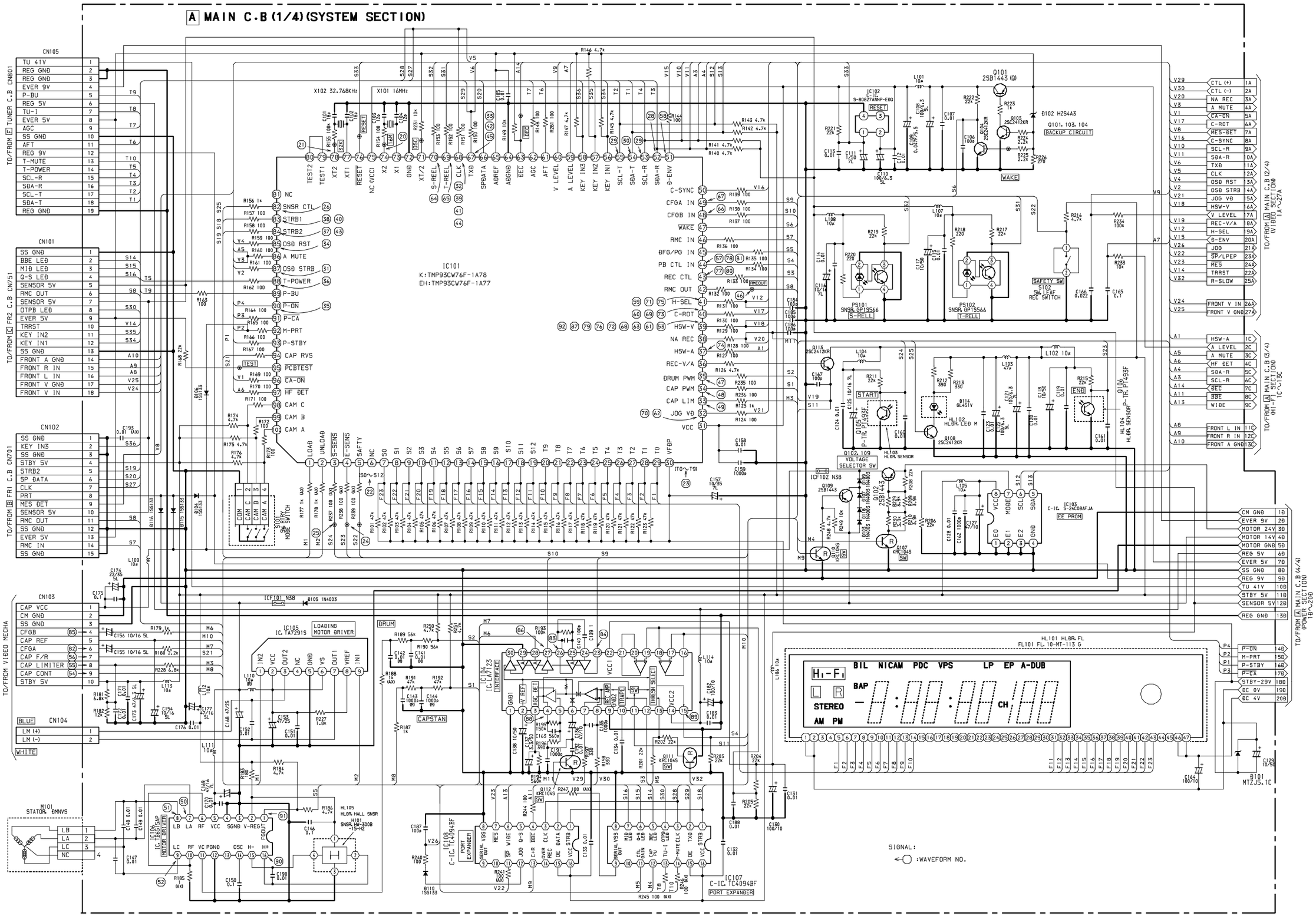
BLOCK DIAGRAM - 7 (POWER/ PS)



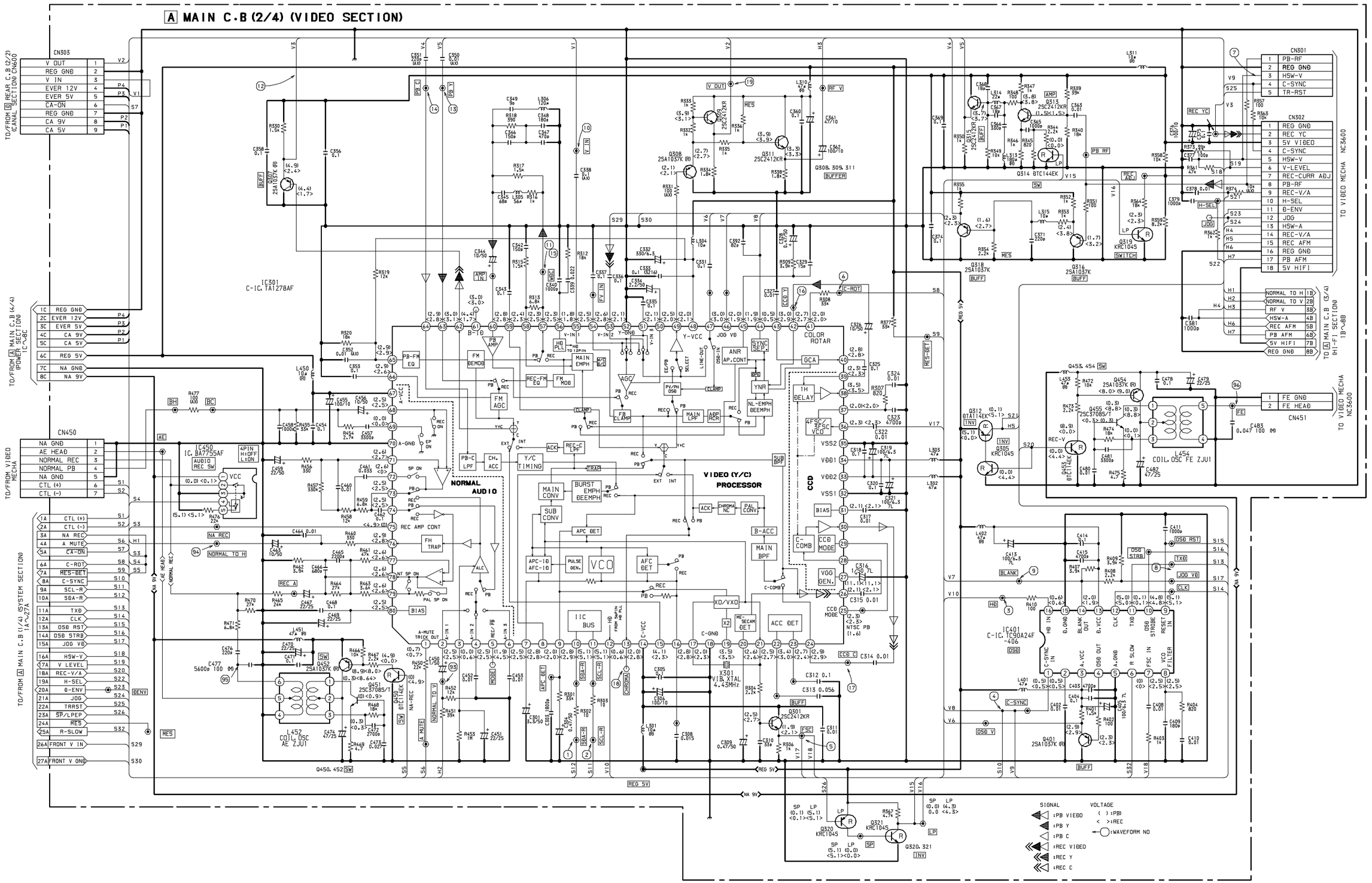
A MAIN C.B


TO G PS C.B CN1
TO MECHA NC3600
TO MECHA NC3600
TO CN450
TO B FR1 C.B CN701
TO G REAR C.B CN600
FL101 DISPLAY
(HL101) FL101
TO C FR2 C.B CN751
FROM VIDEO MECHA NC3600
TO G REAR C.B CN501
TO F TUNER C.B CN801
TO MECHA NC3600
TO F TUNER C.B CN802
CN50
IC101
IC105
IC106
IC108
M101
S101
S102
CN105
CN301
CN302
CN451
CN503
CN551
CN552

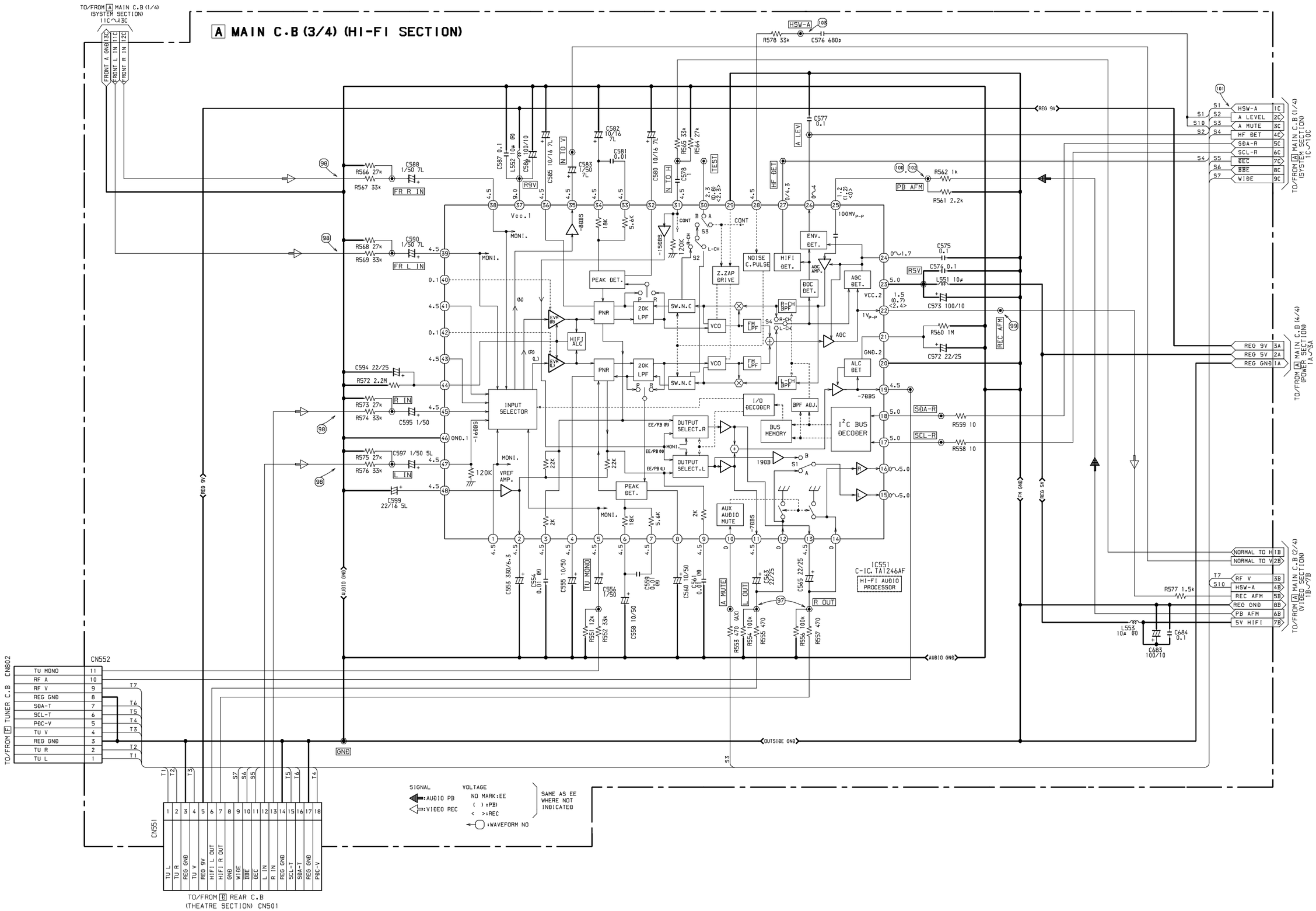
SCHEMATIC DIAGRAM-1 (MAIN 1/4 : SYSTEM SECTION)



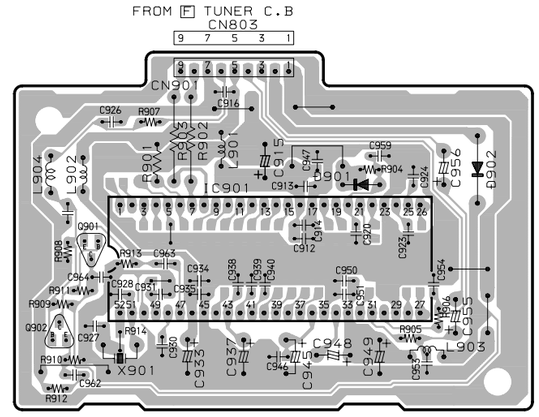
SCHEMATIC DIAGRAM-2 (MAIN 2/4 : VIDEO SECTION)



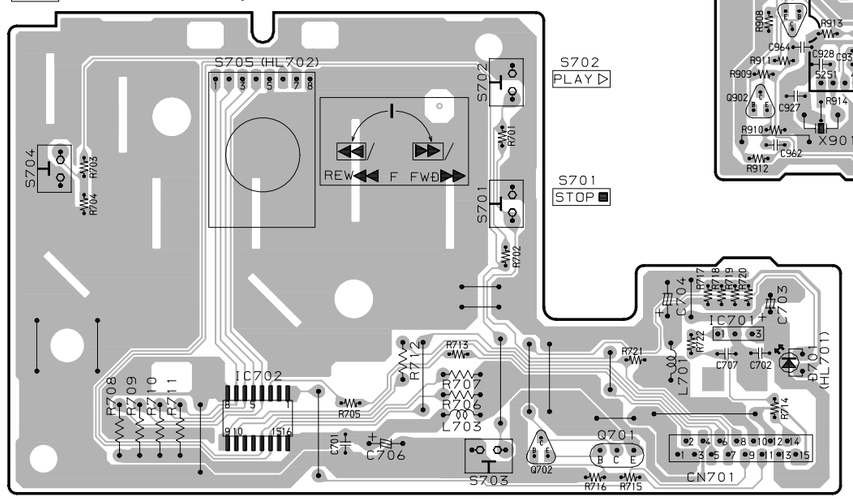
SCHEMATIC DIAGRAM-3 (MAIN 3/4 : HIFI SECTION)



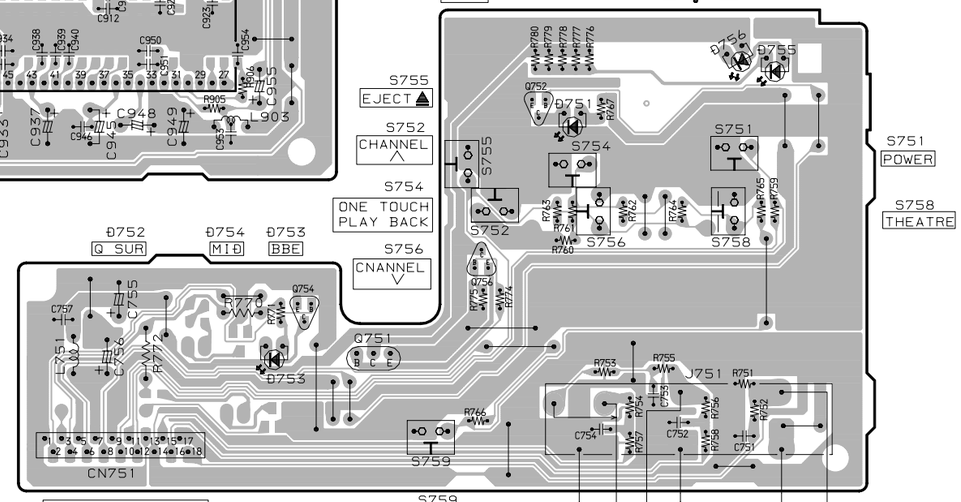
E MPX C.B



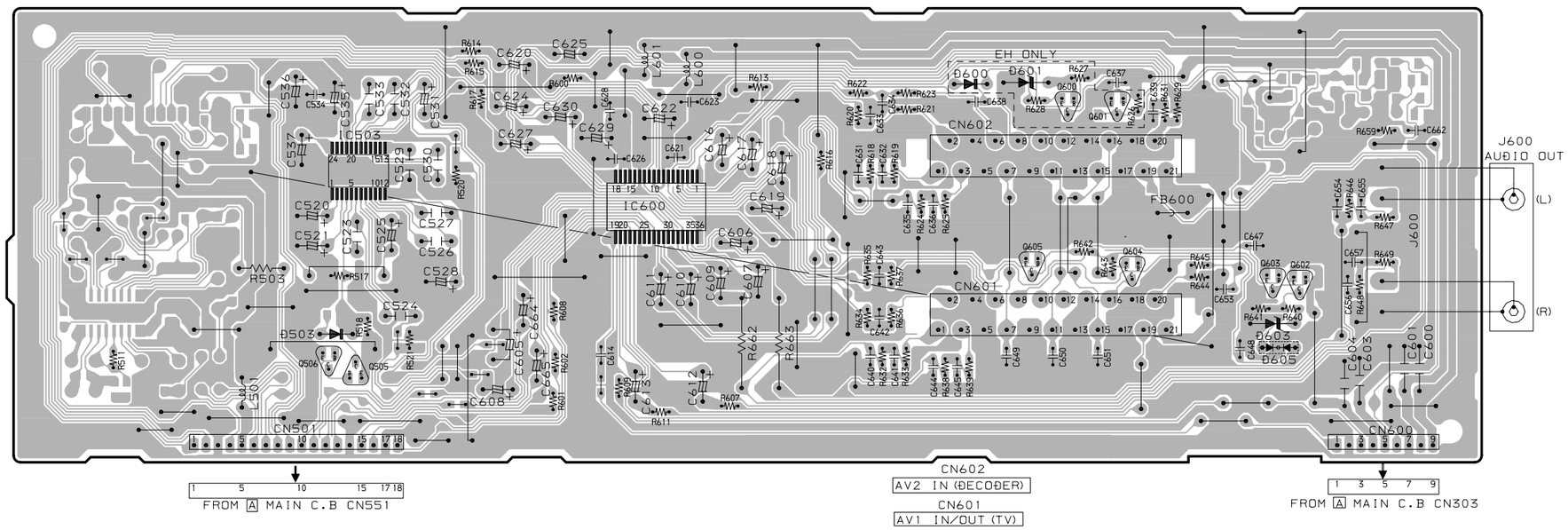
B FR1 C.B

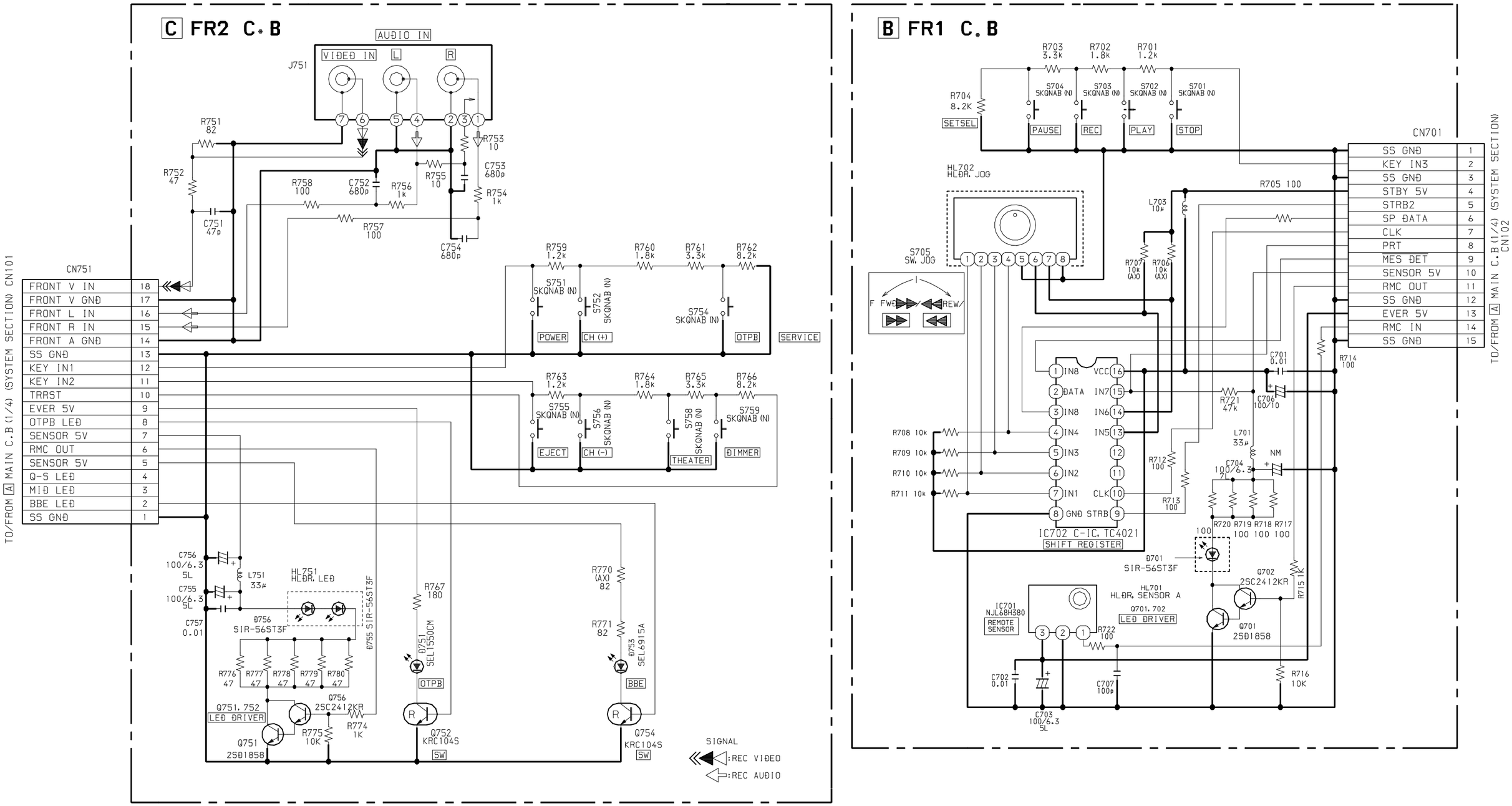


C FR2 C.B

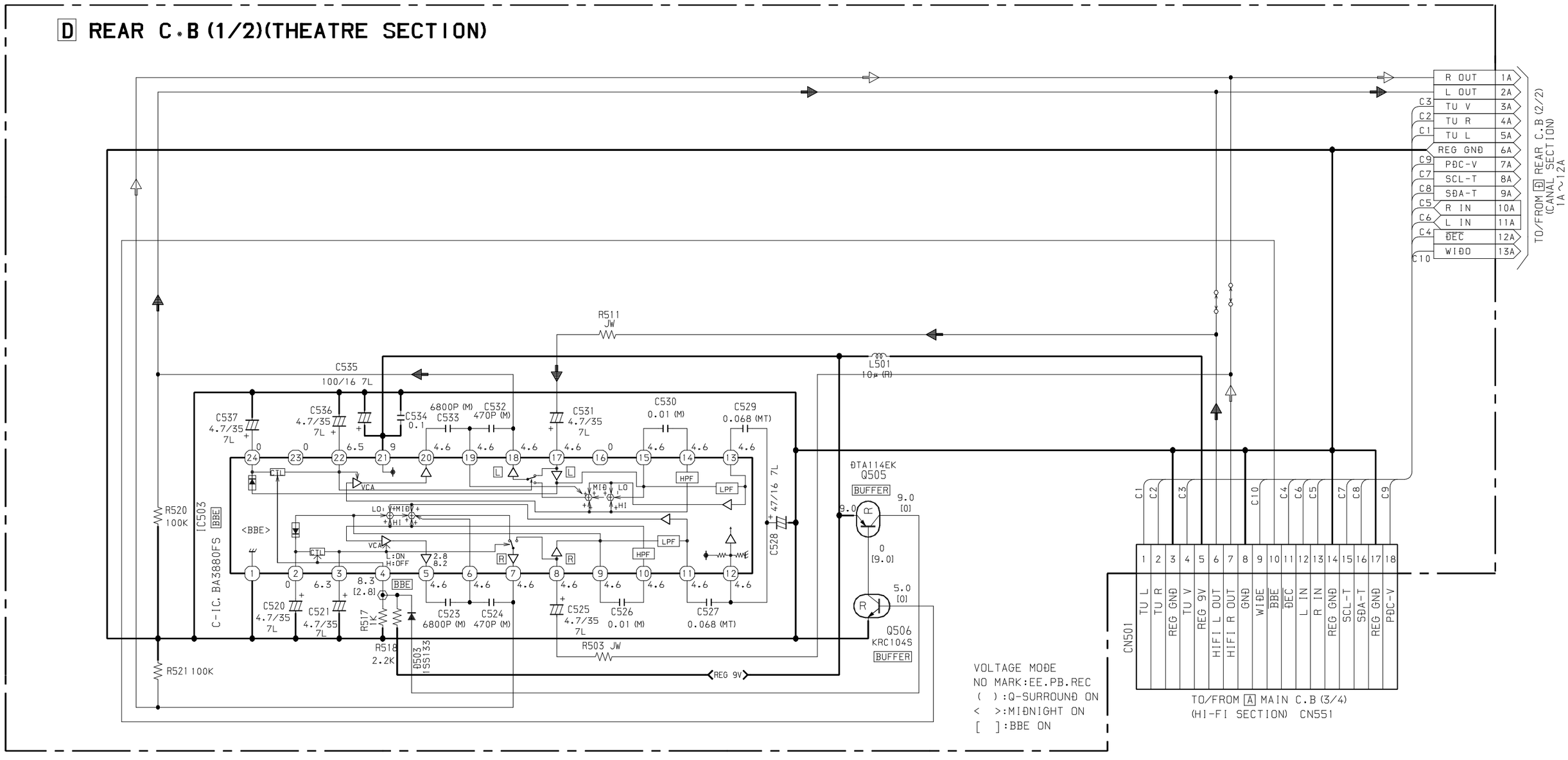


D REAR C.B

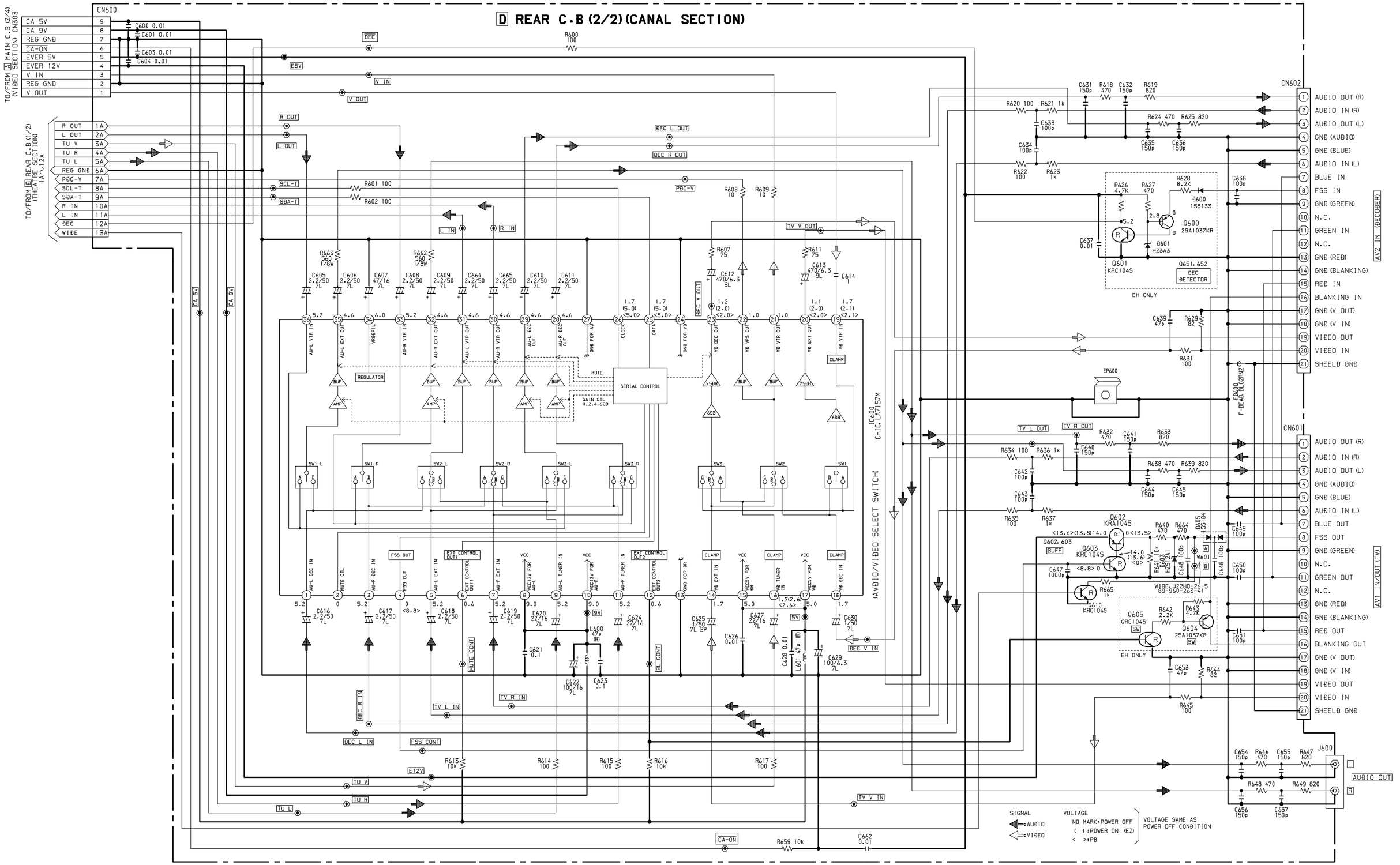



C FR2 C.B
AUDIO IN
VIDEO IN
L
R
J751
R751 82
R752 47
R753 10
R754 1k
R755 10
R756 1k
R757 100
R758 100
C751 47p
C752 680p
C753 680p
C754 680p
CN751
FRONT V IN 18
FRONT V GND 17
FRONT L IN 16
FRONT R IN 15
FRONT A GND 14
SS GND 13
KEY IN1 12
KEY IN2 11
TRRST 10
EVER 5V 9
OTPB LED 8
SENSOR 5V 7
RMC OUT 6
SENSOR 5V 5
Q-S LED 4
MID LED 3
BBE LED 2
SS GND 1
TO/FROM A MAIN C.B(1/4) (SYSTEM SECTION) CN101
R759 1.2k
R760 1.8k
R761 3.3k
R762 8.2k
S751 SKQNAB (N)
S752 SKQNAB (N)
S754 SKQNAB (N)
POWER
CH (+)
OTPB
SERVICE
R763 1.2k
R764 1.8k
R765 3.3k
R766 8.2k
S755 SKQNAB (N)
S756 SKQNAB (N)
S758 SKQNAB (N)
S759 SKQNAB (N)
EJECT
CH (-)
THEATER
DIMMER
C756 100/6.3 5L
C755 100/6.3 5L
C757 0.01
L751 33μ
HL751 HLDR. LED
D756 SIR-56ST3F
D755 SIR-56ST3F
R767 180
D751 SEL1550CM
OTPB
R770 (AX) 82
R771 82
D753 SEL6915A
BBE
R776 47
R777 47
R778 47
R779 47
R780 47
Q751, 752 LED DRIVER
Q756 2SC2412KR
R774 1K
R775 10K
Q751 2SD1858
Q752 KRC104S
SW
Q754 KRC104S
SW
SIGNAL
:REC VIDEO
:REC AUDIO
B FR1 C.B
R703 3.3k
R702 1.8k
R701 1.2k
R704 8.2K
S704 SKQNAB (N)
S703 SKQNAB (N)
S702 SKQNAB (N)
S701 SKQNAB (N)
SETSEL
PAUSE
REC
PLAY
STOP
HL702 HLDR. JOG
S705 SW. JOG
F FWD
REW
R705 100
L703 10μ
R707 10k (AX)
R706 10k (AX)
CN701
SS GND 1
KEY IN3 2
SS GND 3
STBY 5V 4
STRB2 5
SP DATA 6
CLK 7
PRT 8
MES DET 9
SENSOR 5V 10
RMC OUT 11
SS GND 12
EVER 5V 13
RMC IN 14
SS GND 15
TO/FROM A MAIN C.B(1/4) (SYSTEM SECTION) CN102
C701 0.01
R714 100
R721 47k
C706 100/10
R708 10k
R709 10k
R710 10k
R711 10k
IC702 C-IC, TC4021
SHIFT REGISTER
IN8
DATA
IN8
IN4
IN3
IN2
IN1
GND
VCC
IN7
IN6
IN5
CLK
STRB
L701 33μ
NM
C704 100/6.3
R712 100
R713 100
R720 R719 R718 R717
100 100 100 100
D701 SIR-56ST3F
Q702 2SC2412KR
R715 1K
HL701 HLDR, SENSOR A
Q701, 702 LED DRIVER
IC701 NJL6BH580 REMOTE SENSOR
R722 100
Q701 2SD1858
C702 0.01
C703 100/6.3 5L
C707 100p
R716 10K

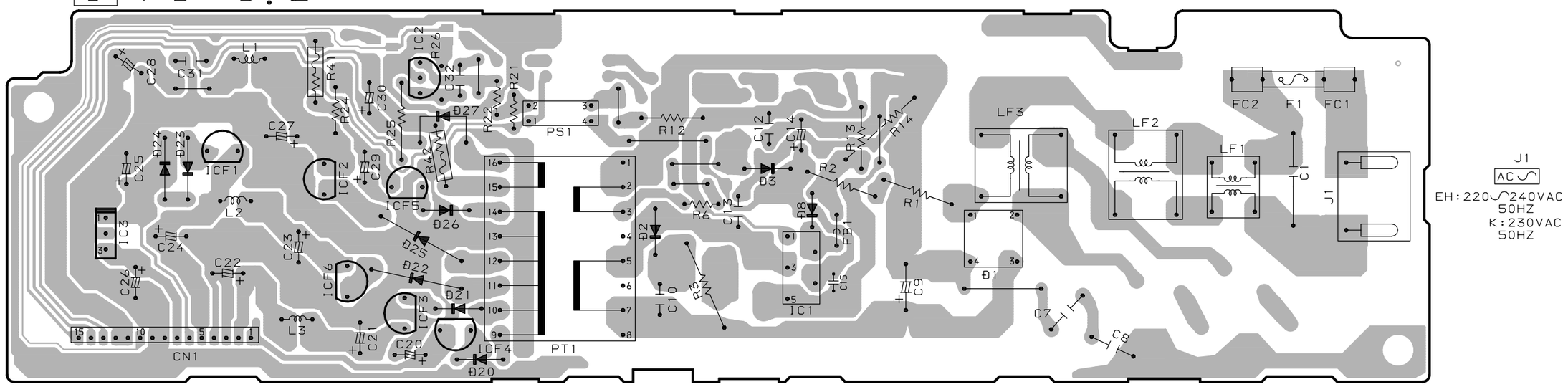
D REAR C.B (1/2)(THEATRE SECTION)



SCHEMATIC DIAGRAM - 6 (REAR 2/ 2 : CANAL SECTION)



G PS C.B



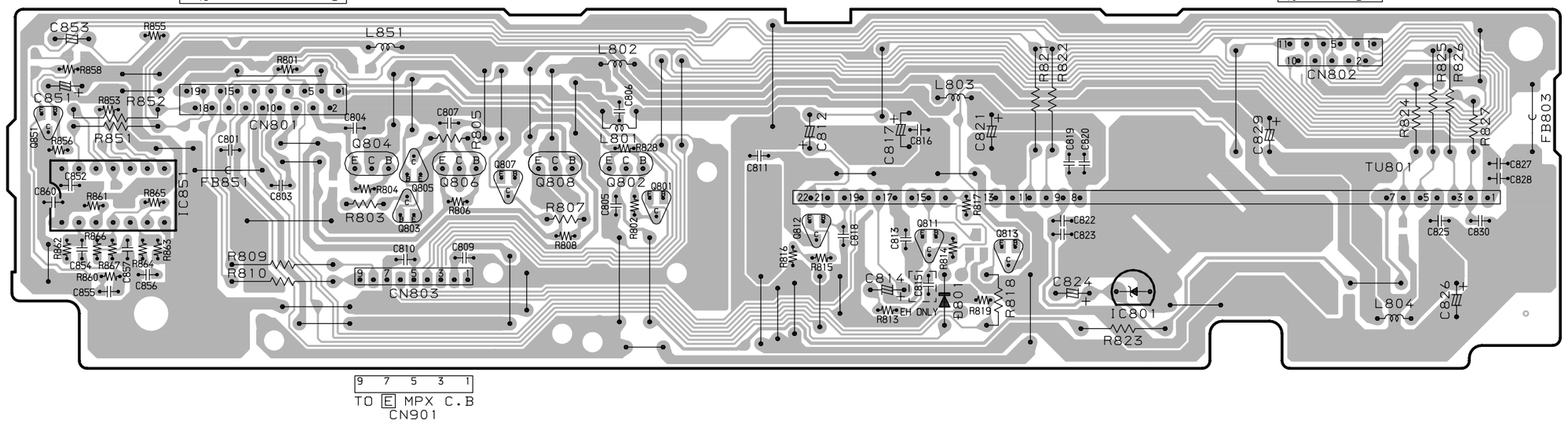
15 10 5 1

FROM A MAIN C.B CN50

F TUNER C.B

FROM A MAIN C.B CN105

19 17 15 13 11 9 7 5 3 1
18 2

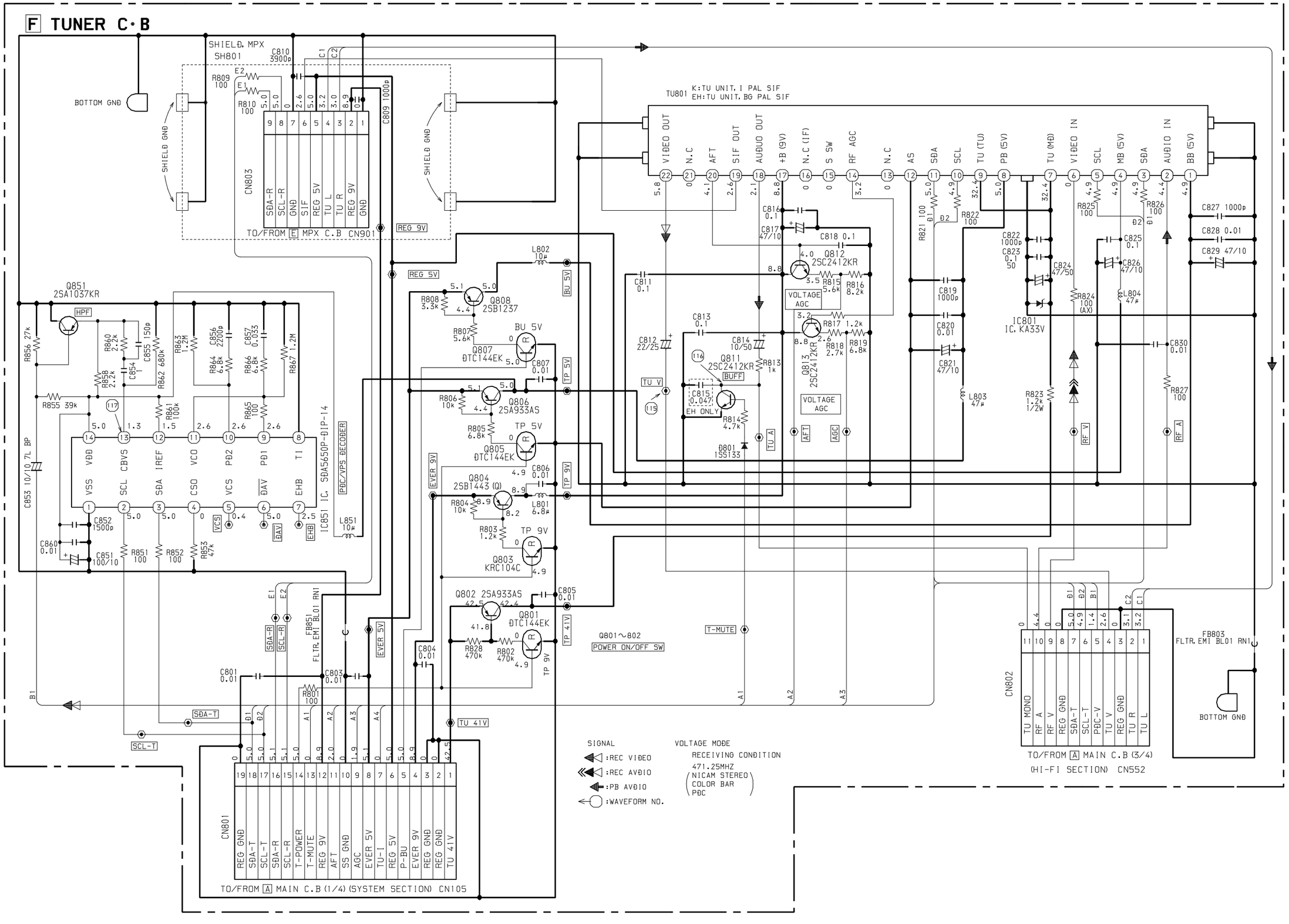


FROM A MAIN C.B
CN552

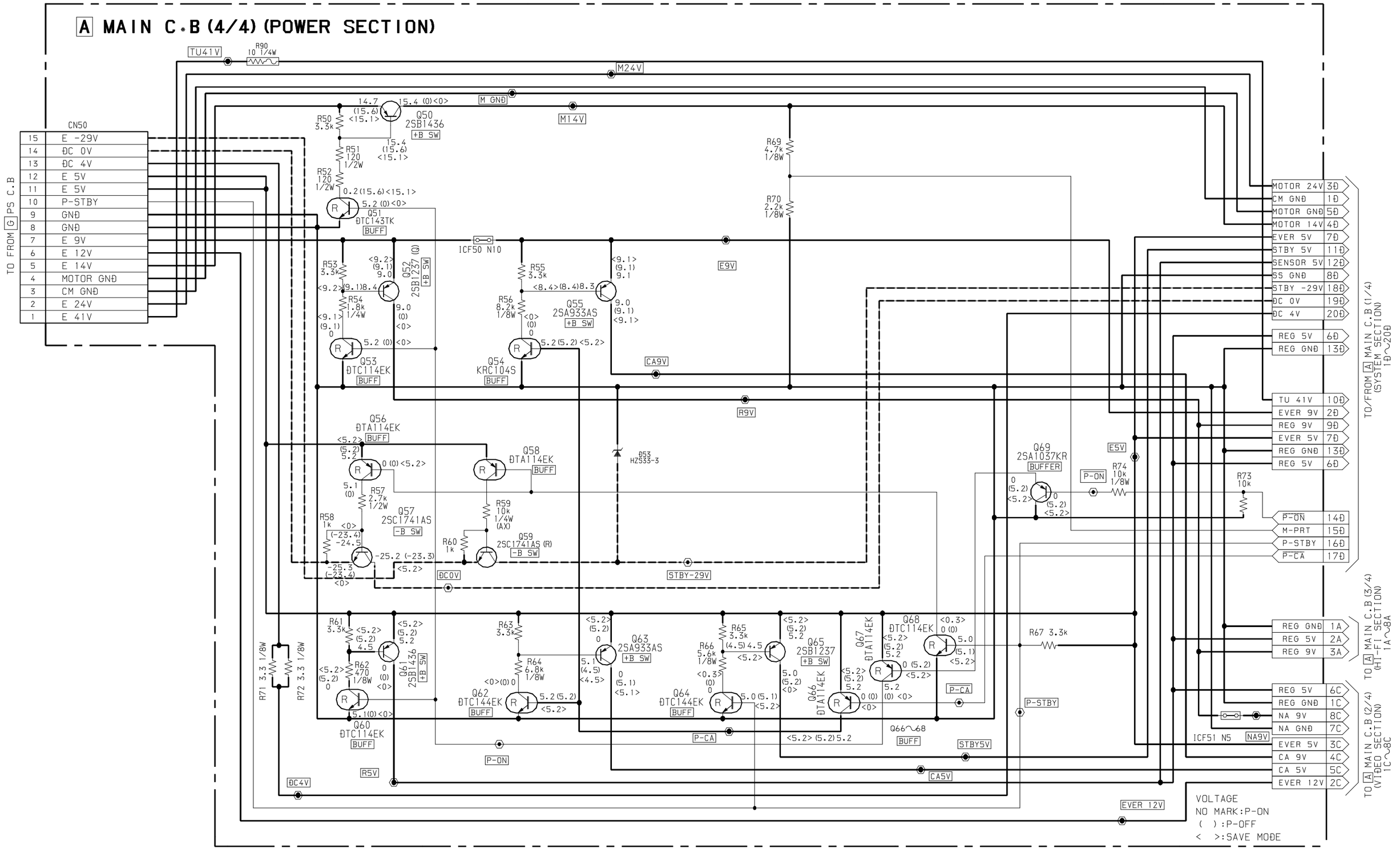
11 9 7 5 3 1
10 2

9 7 5 3 1

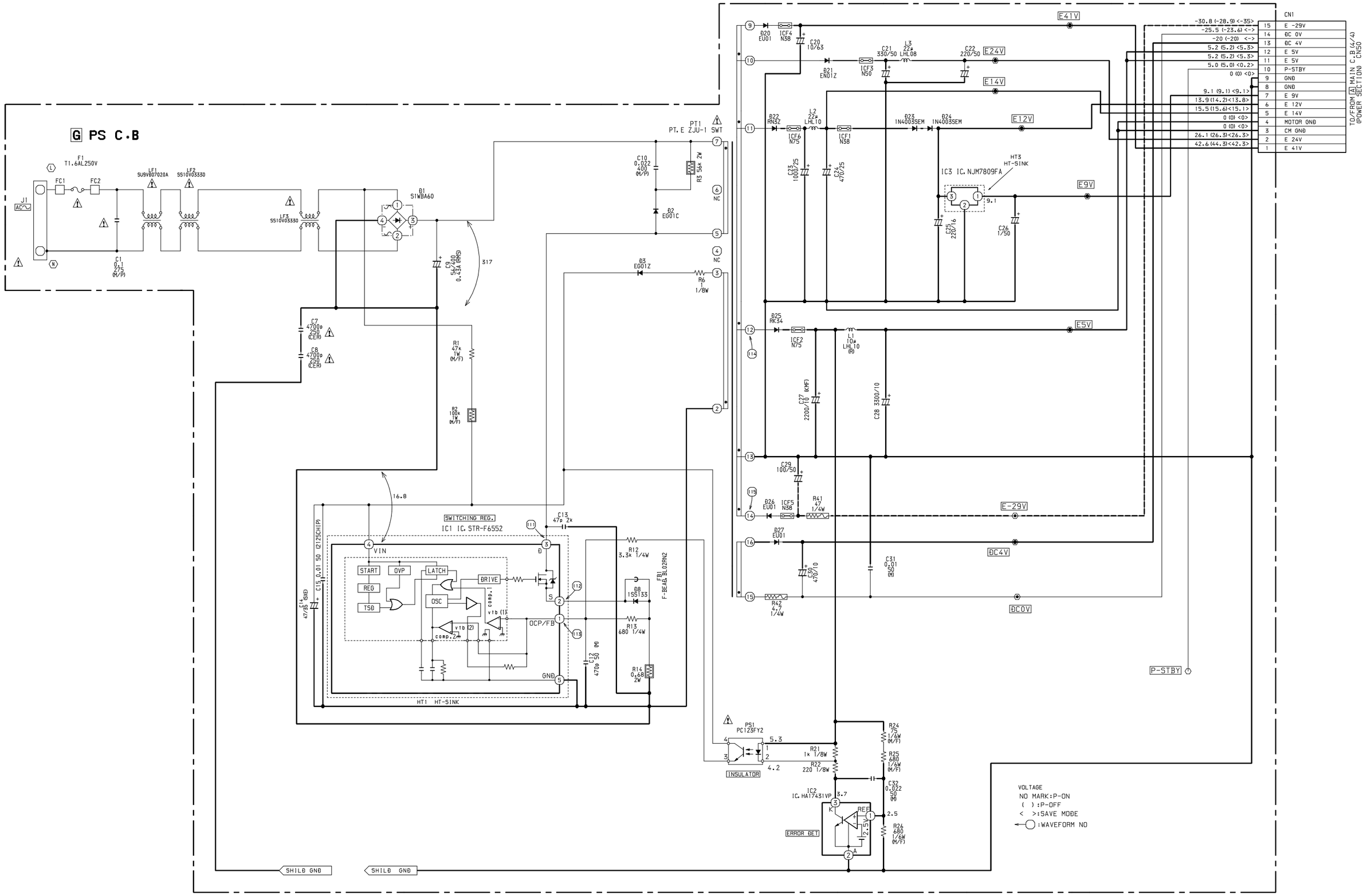
TO E MPX C.B
CN901

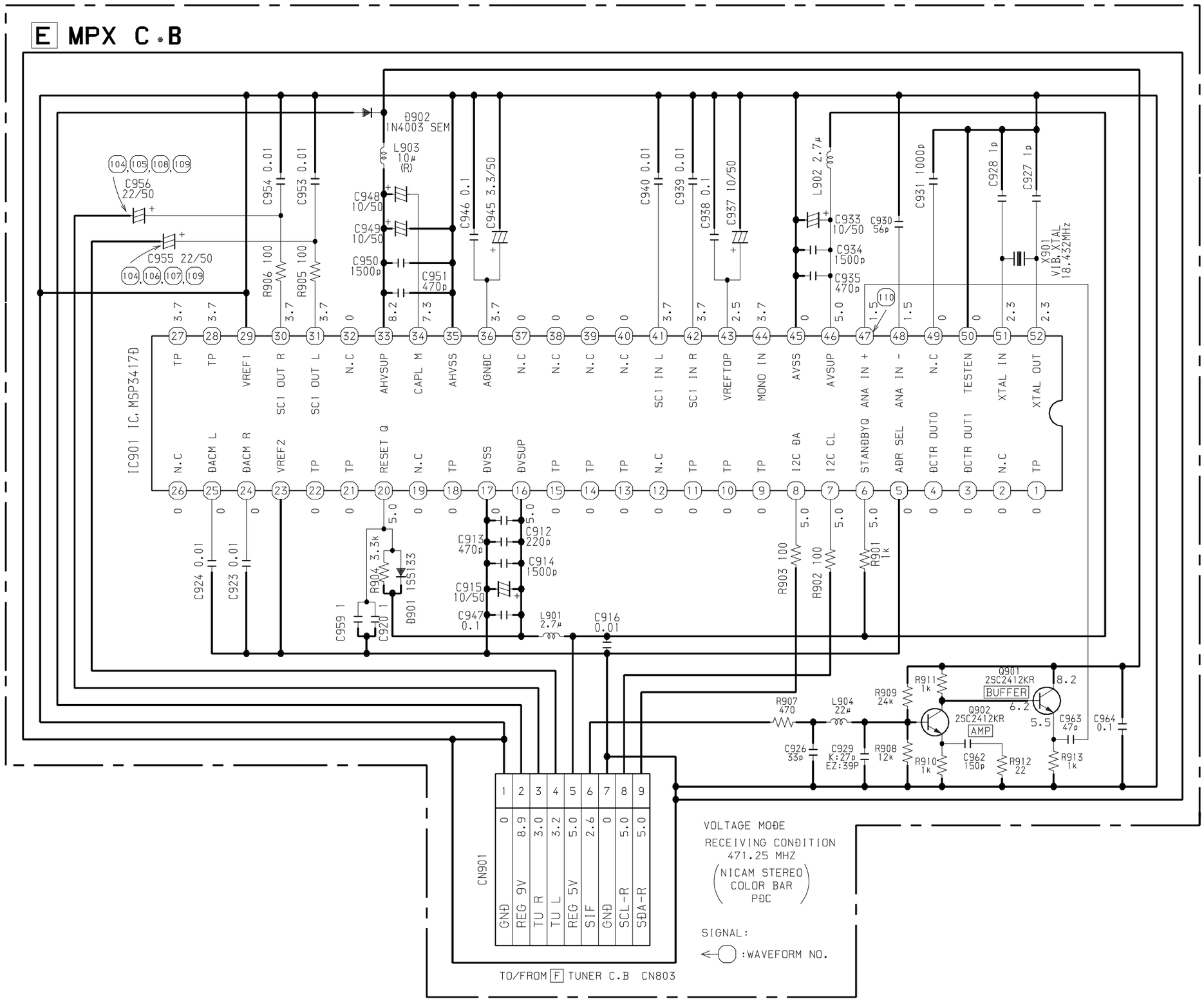

F TUNER C·B
SHIELD. MPX
SH801
BOTTOM GND
SHIELD GND
CN803
SDA-R
SCL-R
GND
SIF
REG 5V
TU L
TU R
REG 9V
GND
TO/FROM E MPX C.B CN901
TU801 K:TU UNIT. I PAL SIF
EH:TU UNIT. BG PAL SIF
VIDEO OUT
N.C
AFT
SIF OUT
AUDUO OUT
+B (9V)
N.C (IF)
S SW
RF AGC
N.C
AS
SDA
SCL
TU (TU)
PB (5V)
TU (MB)
VIDEO IN
SCL
MB (5V)
SDA
AUDIO IN
BB (5V)
IC801
IC. KA33V
Q851
2SA1037KR
HPF
Q808
2SB1237
Q807
DTC144EK
Q806
2SA933AS
Q805
DTC144EK
Q804
2SB1443 (Q)
Q803
KRC104C
Q802 2SA933AS
Q801
DTC144EK
Q812
2SC2412KR
Q811
2SC2412KR
BUFF
Q813
2SC2412KR
VOLTAGE AGC
IC851 IC. SDA5650P-DIP-14
VSS
VDD
SCL
CBVS
SDA
IREF
CSO
VCO
VCS
PB2
PB1
DAV
EHB
TI
PBC/VPS DECODER
IC. SDA5650P-DIP-14
D801
1SS133
TU V
TU A
AFT
AGC
RF V
RF A
EH ONLY
TP 5V
TP 9V
TP 41V
BU 5V
EVER 9V
EVER 5V
REG 9V
REG 5V
SDA-R
SCL-R
SDA-T
SCL-T
T-MUTE
Q801~802
POWER ON/OFF SW
FB851
FLTR. EMI BL01 RN1
FB803
FLTR. EMI BL01 RN1
CN801
REG GND
SDA-T
SCL-T
SDA-R
SCL-R
T-POWER
T-MUTE
REG 9V
AFT
SS GND
AGC
EVER 5V
TU-I
REG 5V
P-BU
EVER 9V
REG GND
REG GND
TU 41V
TO/FROM A MAIN C.B (1/4) (SYSTEM SECTION) CN105
CN802
TU MONO
RF A
RF V
REG GND
SDA-T
SCL-T
PBC-V
TU V
REG GND
TU R
TU L
TO/FROM A MAIN C.B (3/4)
(HI-FI SECTION) CN552
BOTTOM GND
SIGNAL
:REC VIDEO
:REC AVDIO
:PB AVDIO
:WAVEFORM NO.
VOLTAGE MODE
RECEIVING CONDITION
471.25MHZ
(NICAM STEREO
COLOR BAR
PBC

SCHEMATIC DIAGRAM - 8 (MAIN 4/4 : POWER SECTION)



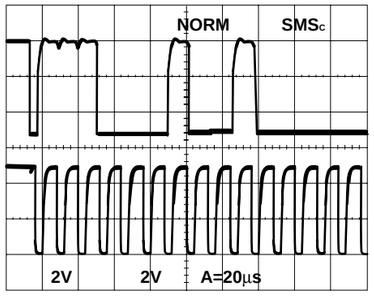
SCHEMATIC DIAGRAM - 9 (PS)




E MPX C.B
IC901 IC.MSP3417D
Ð902 1N4003 SEM
L903 10µ (R)
L902 2.7µ
L901 2.7µ
L904 22µ
C954 0.01
C953 0.01
C956 22/50
C955 22/50
C948 10/50
C949 10/50
C950 1500p
C951 470p
C946 0.1
C945 3.3/50
C940 0.01
C939 0.01
C938 0.1
C937 10/50
C933 10/50
C930 56p
C934 1500p
C935 470p
C931 1000p
C928 1p
C927 1p
X901 VIB.XTAL 18.432MHz
R906 100
R905 100
R903 100
R902 100
R901 1k
C924 0.01
C923 0.01
C959 1
C920 1
R904 3.3k
Ð901 1SS133
C913 470p
C912 220p
C914 1500p
C915 10/50
C947 0.1
C916 0.01
R907 470
C926 33p
C929 K:27p EZ:39P
R909 24k
R908 12k
R911 1k
R910 1k
Q901 2SC2412KR BUFFER
Q902 2SC2412KR AMP
C962 150p
R912 22
C963 47p
C964 0.1
R913 1k
CN901
GNÐ 0
REG 9V 8.9
TU R 3.0
TU L 3.2
REG 5V 5.0
SIF 2.6
GNÐ 0
SCL-R 5.0
SÐA-R 5.0
TO/FROM F TUNER C.B CN803
VOLTAGE MOÐE
RECEIVING CONÐITION
471.25 MHZ
(NICAM STEREO
COLOR BAR
PÐC)
SIGNAL:
:WAVEFORM NO.

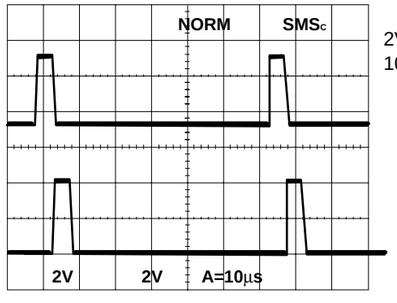
WAVEFORM
<VIDEO SECTION>

① IC301 PIN 10 (SDA-R)
② IC301 PIN 11 (SCL-R)
MODE: REC



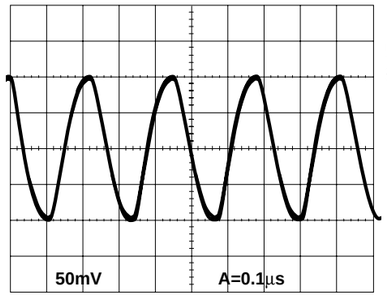
2V/div
20µS/div

③ IC401 PIN 16 (HD)
④ IC401 PIN 01 (C-SYNC)
MODE: REC



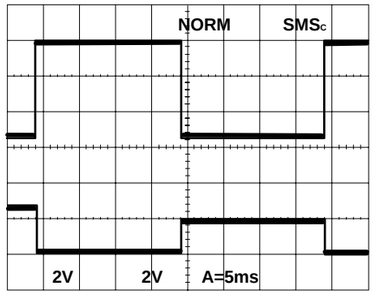
2V/div
10µS/div

⑤ Q301 Emitter (FSC)
MODE: REC



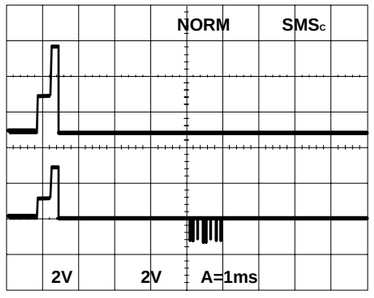
50mV/div
0.1µS/div

⑥ IC301 PIN 41 (C-ROT)
⑦ CN301 PIN 3 (HSW-V)
MODE: REC



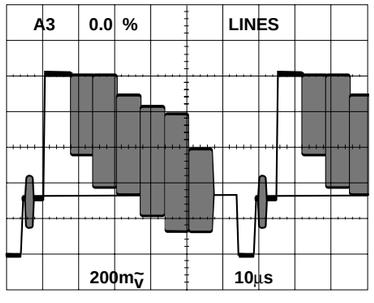
2V/div
5mS/div

⑧ IC401 PIN 14 (JOG VD
⑨ IC401 PIN 14 (BLANK)
MODE: PB



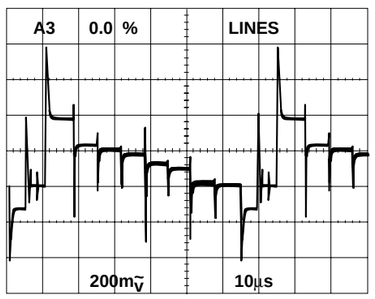
2V/div
1mS/div

⑩ IC301 PIN 55 (V IN)
MODE: REC



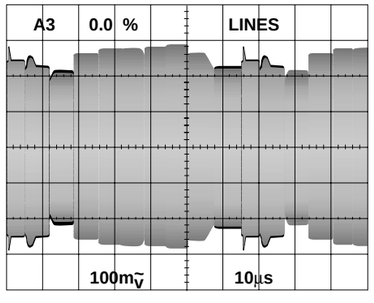
200mV/div
10µs/div

⑪ IC301 PIN 57 (WDC)
MODE: REC



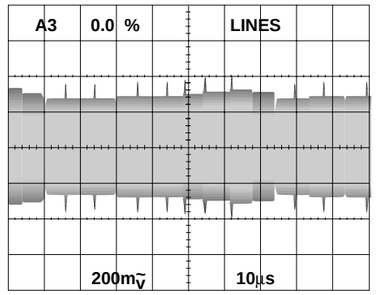
200mV/div
10µs/div

⑫ Q307 Emitter (REC YC)
MODE: REC



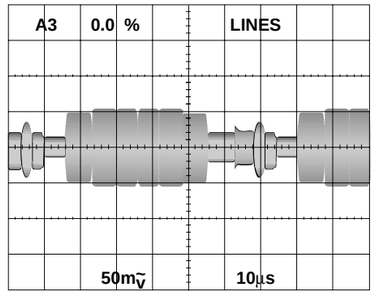
100mV/div
10µs/div

⑬ IC301 PIN 63 (PB YFM)
MODE: PB



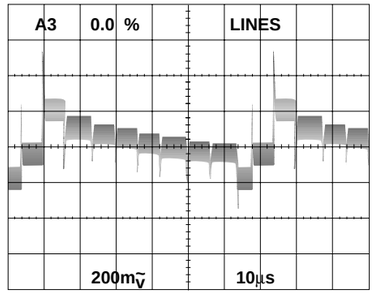
200mV/div
10µS/div

⑭ IC301 PIN 64 (PB CSL)
MODE: PB



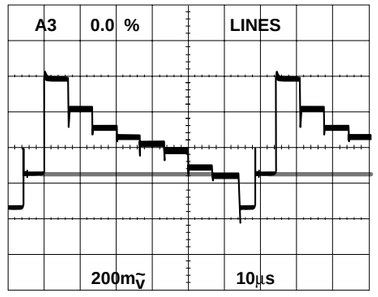
50mV/div
10µS/div

⑮ IC301 (DE EMPH)
MODE: PB



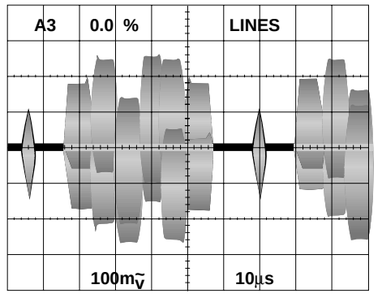
200mV/div
10µS/div

⑯ IC301 PIN 42 (Y CCD OUT)
MODE: PB



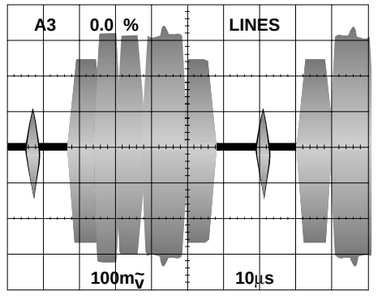
200mV/div
10µS/div

⑰ IC301 PIN 24 (C CCD OUT)
MODE: PB



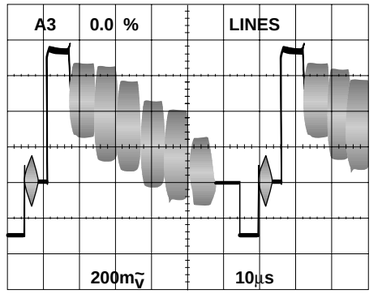
100mV/div
10µS/div

⑱ IC301 PIN 13 (PB C)
MODE: PB



100mV/div
10µS/div

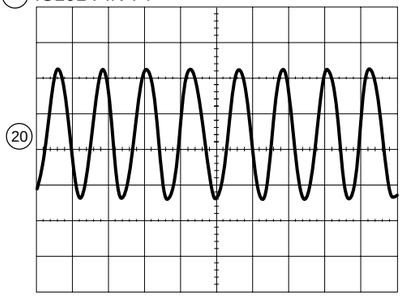
⑲ Q309 Emitter (V OUT)
MODE: PB



200mV/div
10µS/div

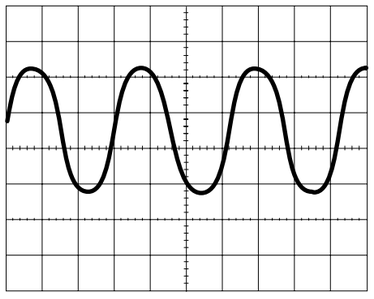
<SYSTEM SECTION>

⑳ IC101 PIN 74

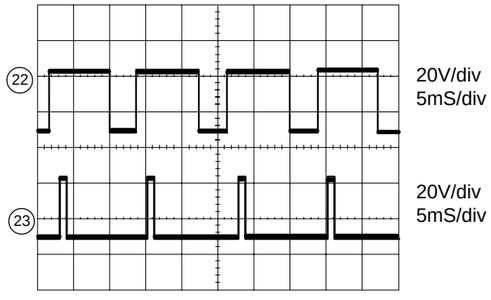


1V/div
50nS/div

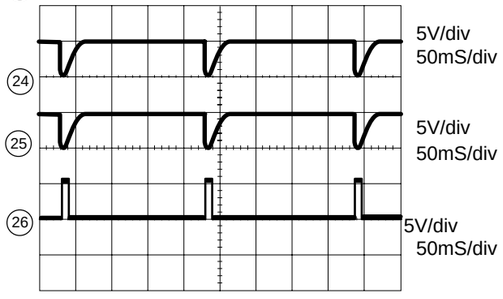
(21) IC101 PIN 78



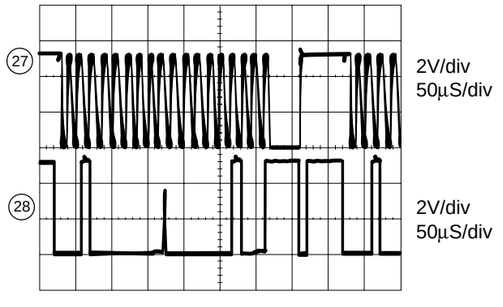
(22) IC101 PIN 7 ~ 19 (not always same waveform)
(23) IC101 PIN 20 ~ 29 (not always same waveform)
MODE: Power ON



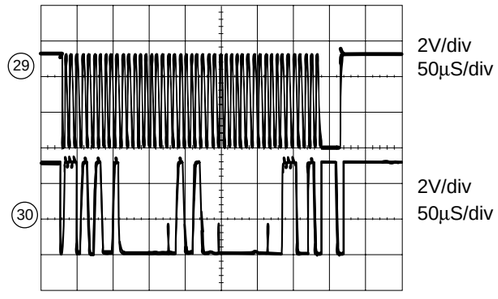
(24) IC101 PIN 4
(25) IC101 PIN 3
(26) IC101 PIN 82
MODE: P-OFF:NO TAPE



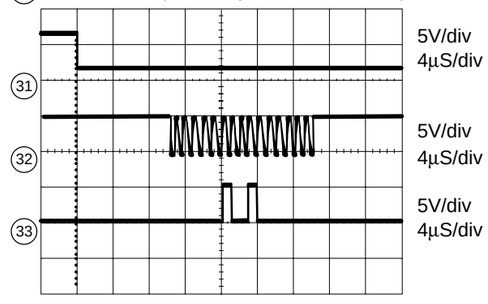
(27) IC101 PIN 53
(28) IC101 PIN 52 (not always same waveform)
MODE: Power ON



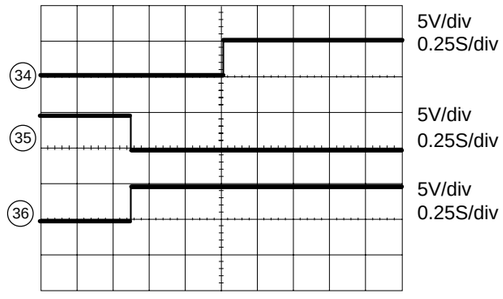
(29) IC101 PIN 55
(30) IC101 PIN 54 (not always same waveform)
MODE: Power ON



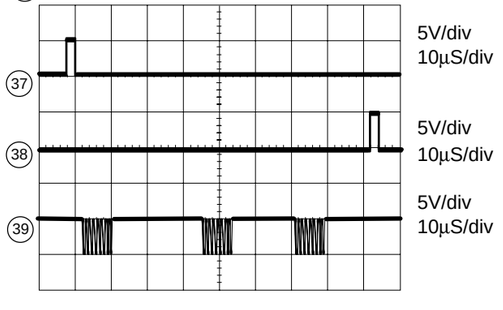
(31) IC101 PIN 87
(32) IC101 PIN 68
(33) IC101 PIN 67 (not always same waveform)
MODE: Power ON



(34) IC101 PIN 85
(35) IC101 PIN 90
(36) IC101 PIN 88
MODE: P-OFF –> P-ON

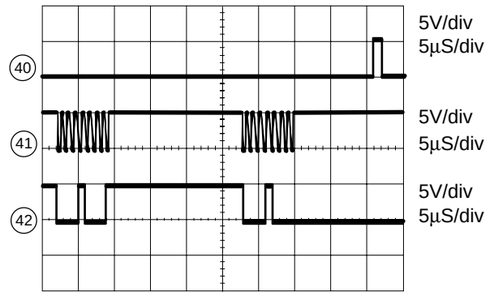


(37) IC101 PIN 84
(38) IC101 PIN 83
(39) IC101 PIN 68
MODE: P-OFF –> P-ON

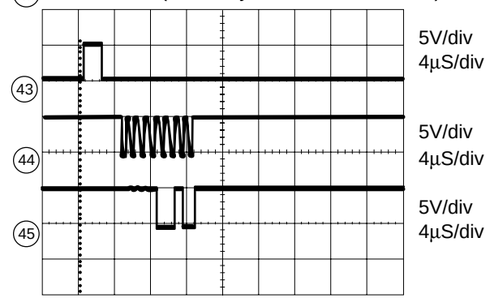


A STRB2+CLK B CLK+STRB

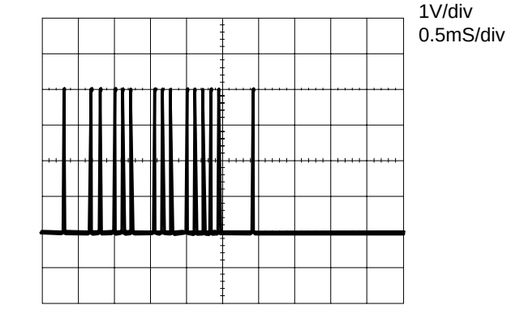
(40) IC101 PIN 83
(41) IC101 PIN 68
(42) IC101 PIN 67 (not always the same waveform)



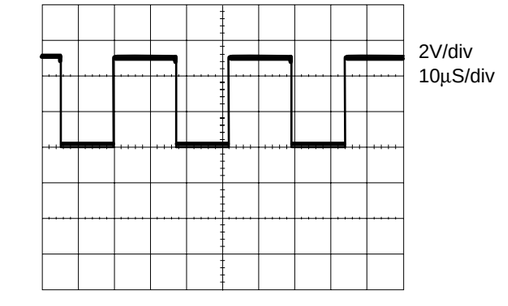
(43) IC101 PIN 84
(44) IC101 PIN 68
(45) IC101 PIN 67 (not always the same waveform)



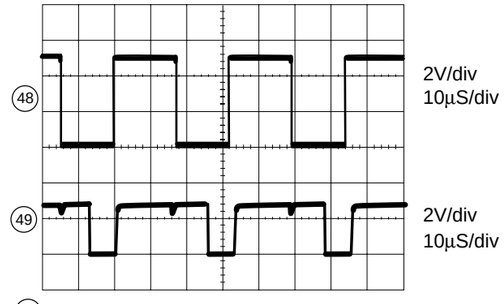
(46) IC101 PIN 42 MODE: SAT CH CALL
(not always the same waveform)



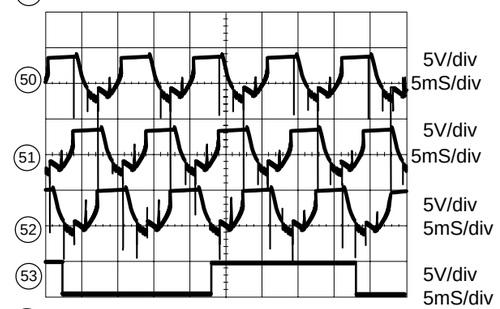
(47) IC101 PIN 35 MODE: P1 PB



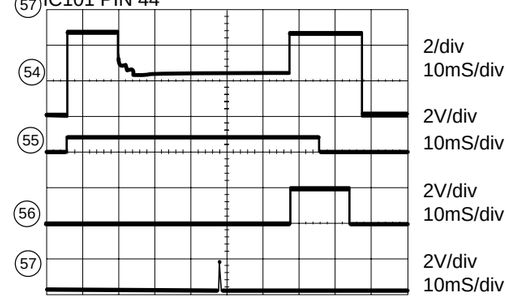
(48) IC101 PIN 34
(49) IC101 PIN 33
MODE: P1 PB



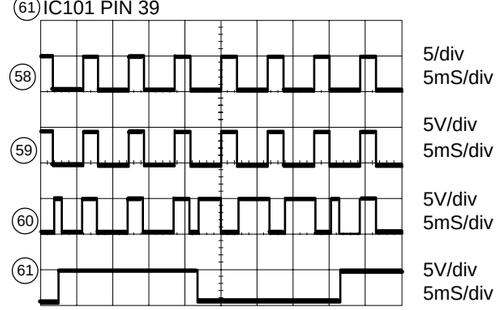
(50) IC106 PIN 7
(51) IC106 PIN 8
(52) IC106 PIN 9
(53) IC101 PIN 39
MODE: P1 PB



(54) CN103 PIN 9
(55) CN103 PIN 8
(56) CN103 PIN 7
(57) IC101 PIN 44
MODE: P1 SLOW

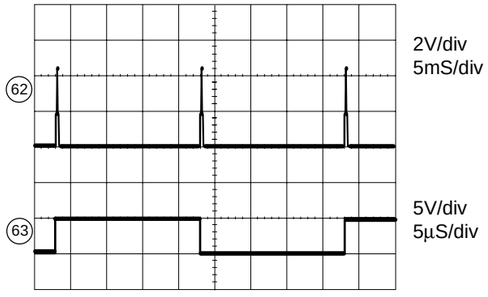


(58) IC101 PIN 51
(59) IC101 PIN 41
(60) IC101 PIN 40
(61) IC101 PIN 39
MODE: P1 CUE



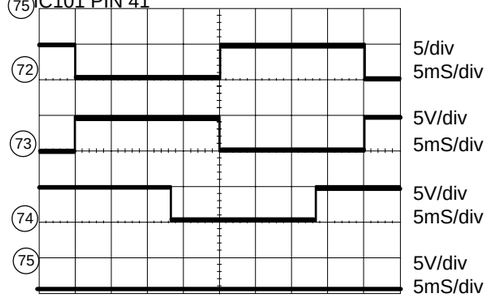
62 IC101 PIN 32
63 IC101 PIN 39

MODE: P1 PB



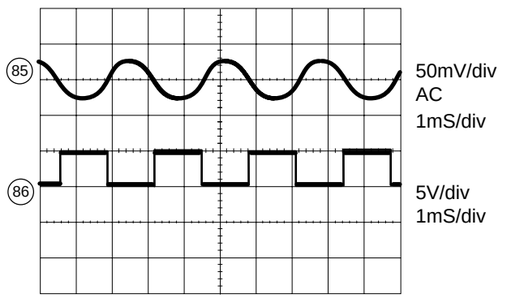
72 IC101 PIN 39
73 IC101 PIN 40
74 IC101 PIN 37
75 IC101 PIN 41

MODE: P1L PB



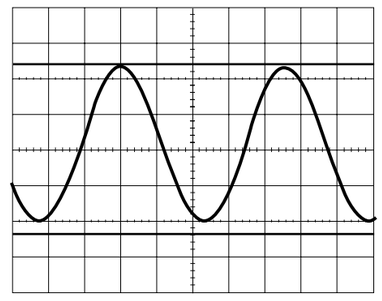
85 CN103 PIN 4
86 IC104 PIN 27

MODE: P1 PB



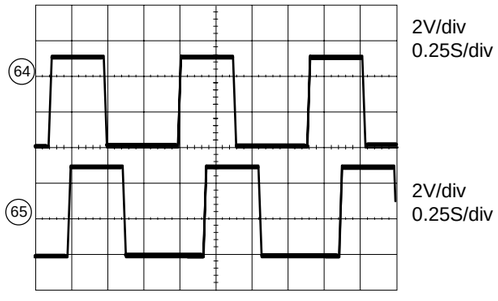
94 C463 (-)

NORMAL TO H
CHECK LAND



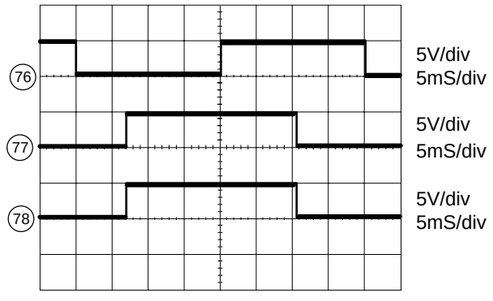
64 IC101 PIN 70
65 IC101 PIN 69

MODE: P1 PB



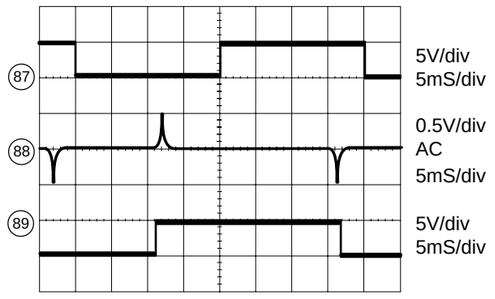
76 IC101 PIN 39
77 IC101 PIN 43
78 IC101 PIN 44

MODE: SP REC

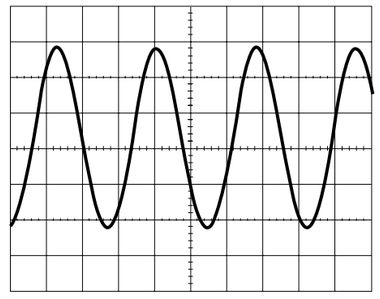


87 IC101 PIN 39
88 IC104 PIN 4
89 IC104 PIN 15

MODE: P1 PB

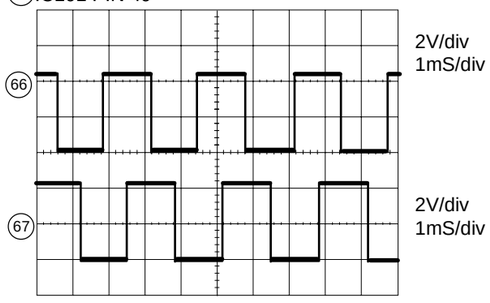


95 C77 <–> L452 (6 pin)
(AE HEAD)



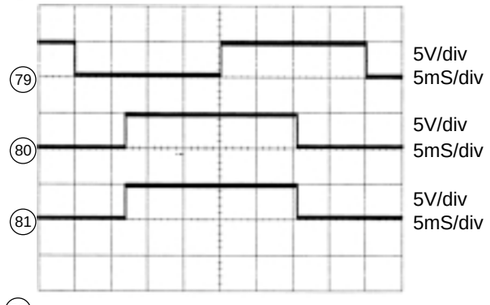
66 IC101 PIN 48
67 IC101 PIN 49

MODE: P1 PB



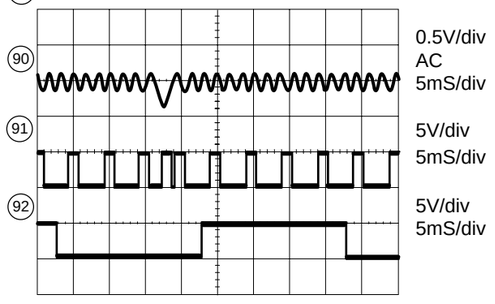
79 IC101 PIN 39
80 IC101 PIN 43
81 IC101 PIN 44

MODE: LP REC

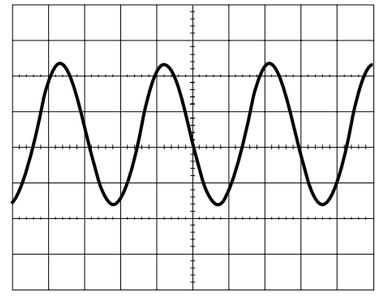


90 IC106 PIN 16
91 IC106 PIN 1
92 IC101 PIN 39

MODE: P1 PB

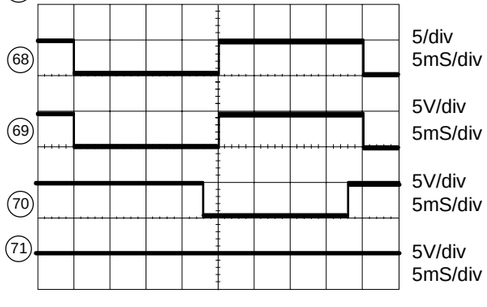


96 C483 <–> L454 (5 pin)
(FE HEAD)



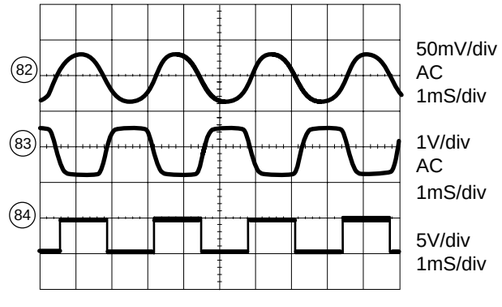
28 IC101 PIN 39
28 IC101 PIN 40
28 IC101 PIN 32
28 IC101 PIN 41

MODE: P1 PB



82 CN103 PIN 6
83 IC104 PIN 26
84 IC104 PIN 23

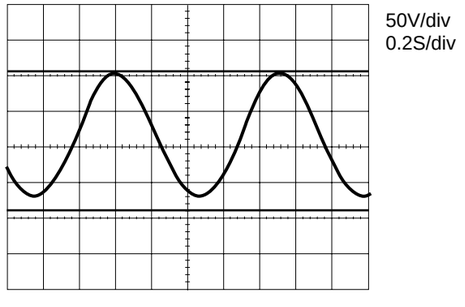
MODE: P1 PB



NORMAL AUDIO <VIDEO SECTION>

93 C450 (-)

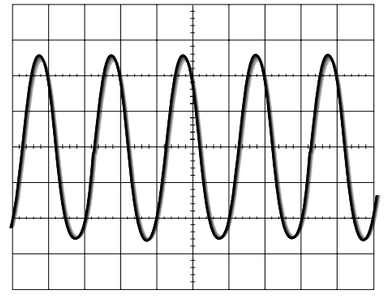
NORMAL TO V
CHECK LAND



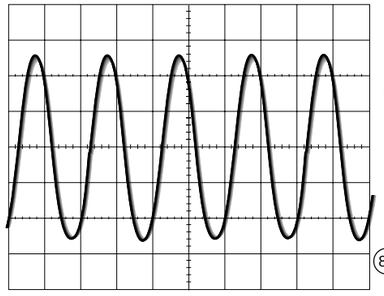
<HI-FI SECTION>

97 IC551 PIN 11, 13

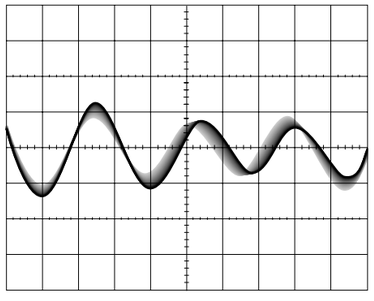
MODE: HIFI PB
TEST TAPE: TTV-P7, TTV-N10



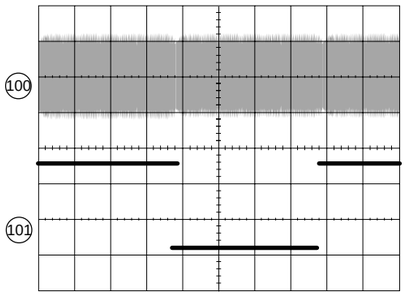
98 IC551 PIN 38,39,45,47 MODE: EE
INPUT: 1kHz, -8dBm



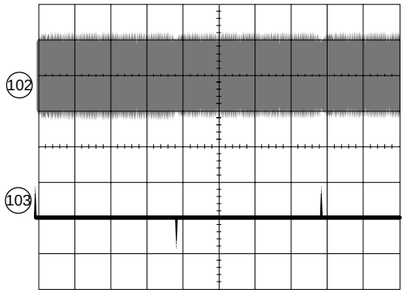
99 IC551 PIN 22 MODE: REC SP/LP
(No signal)



100 IC551 PIN 25
101 CN302 PIN 13 MODE: HIFI PB (TTV-P7)

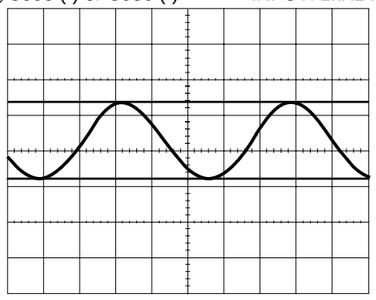


102 IC551 PIN 25
103 IC551 PIN 28 CHECK LAND

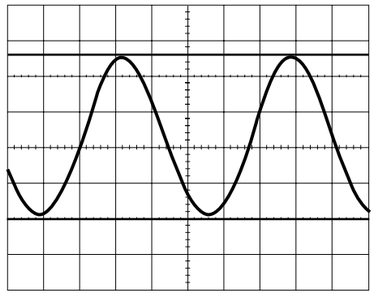


<MPX SECTION>

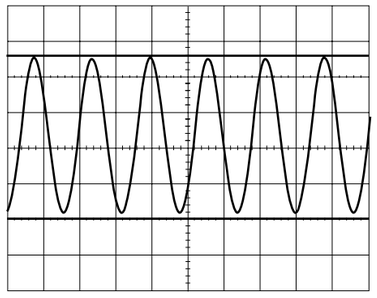
NON-NICAM and ZWEITON
104 C995 (-) or C956 (-) INPUT: 1kHz : 27kHz/div



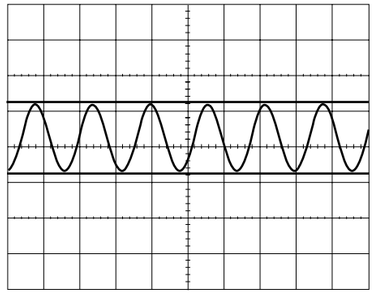
NICAM ST or BIL or MONO
105 C956 (-) (Right CH) INPUT: 1kHz : 0dBm



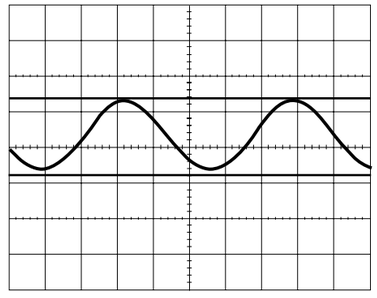
NICAM ST or BIL or MONO
106 C955 (-) (Left CH) INPUT: 3kHz : 0dBm



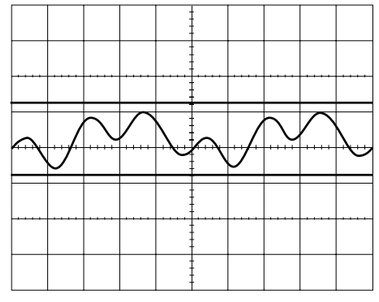
ZWEITON ST or BIL <EH ONLY>
107 C995 (-) (Left CH) INPUT: 3kHz : 27kHz/div



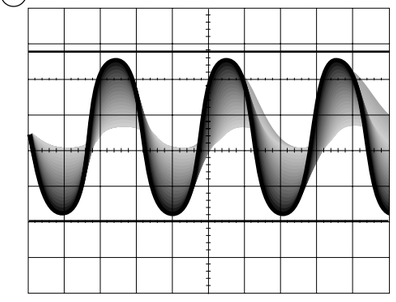
ZWEITON ST or BIL <EH ONLY>
108 C956 (-) (Right CH) INPUT: 1kHz : 27kHz/div



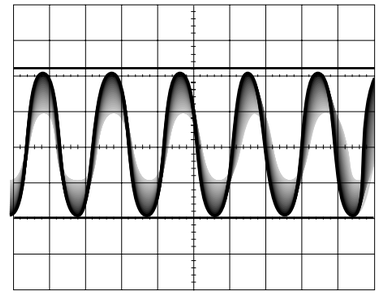
ZWEITON ST (non BIL) <EH ONLY>
Switched AUTO –> MONO on OSD Menu
109 C955 (-) or C956 (-) INPUT: 3 kHz : 27kHz/div



<SOUND IF>
NICAM : SYSTEM I <K ONLY>
110 IC901 PIN47 or C963 INPUT: 6.552MHz

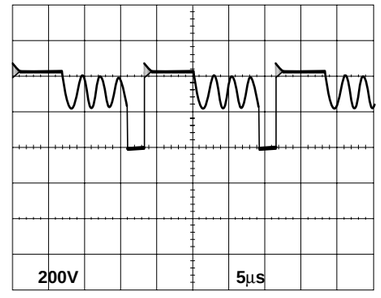


NICAM : SYSTEM BG <EH ONLY>
110 IC901 PIN47 or C963 INPUT: 5.85MHz

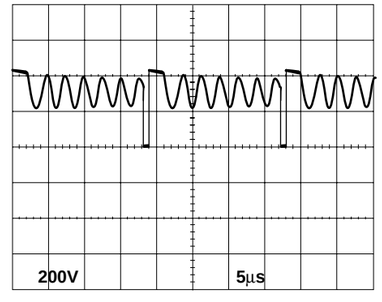


<POWER SECTION>

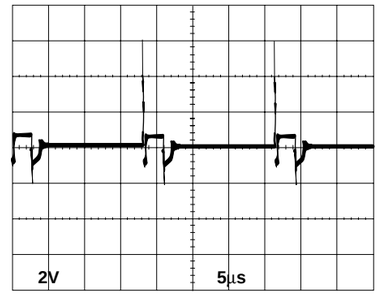
111 IC1 PIN 3 MODE: Power ON



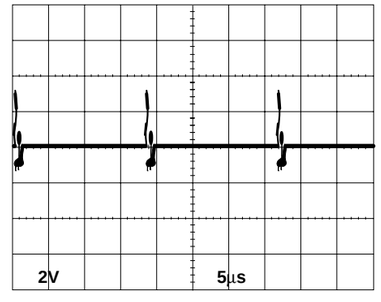
111 IC1 PIN 3 MODE: Power SAVE



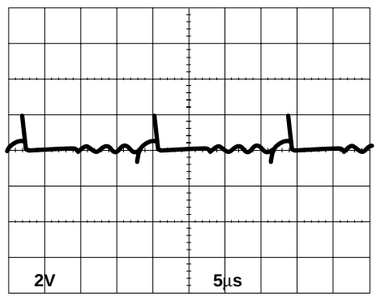
112 IC1 PIN 2 MODE: Power ON



112 IC1 PIN 2 MODE: Power SAVE

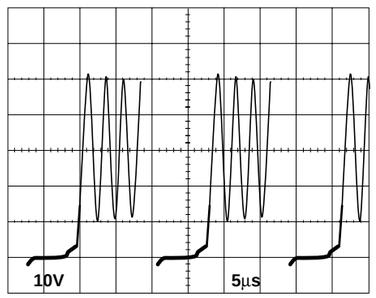


113 IC1 PIN 1 MODE: Power ON



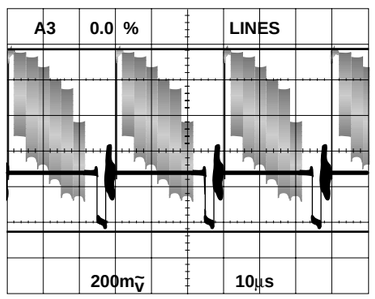
2V/div
5µS/div

115 PT1 PIN 14 MODE: Power ON



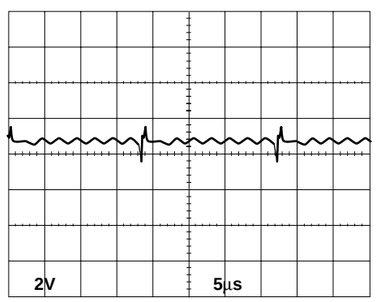
10V/div
5µS/div

117 IC851 PIN 13 (PDC V)



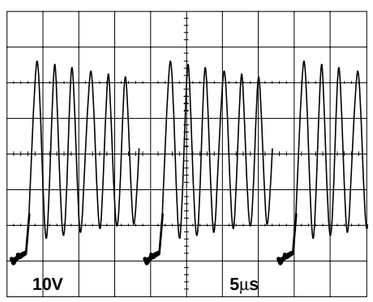
0.2V/div
20µS/div

113 IC1 PIN 1 MODE: Power SAVE



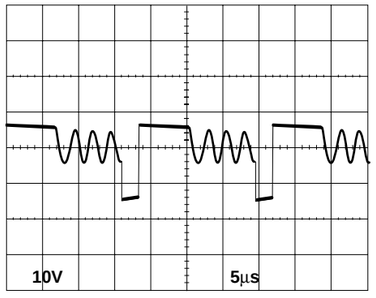
2V/div
5µS/div

115 PT1 PIN 14 MODE: Power SAVE



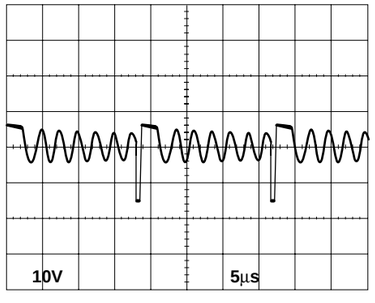
10V/div
5µS/div

114 PT1 PIN 12 MODE: Power ON



10V/div
5µS/div

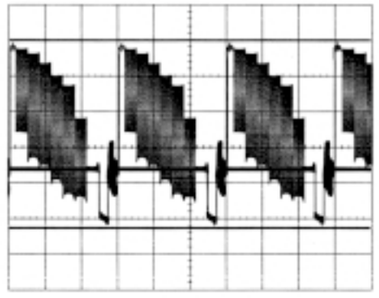
114 PT1 PIN 12 MODE: Power SAVE



10V/div
5µS/div

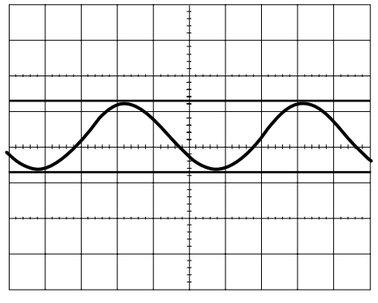
<TUNER SECTION>

115 C812 (-) TU V CHECK LAND



0.2V/div
20µS/div

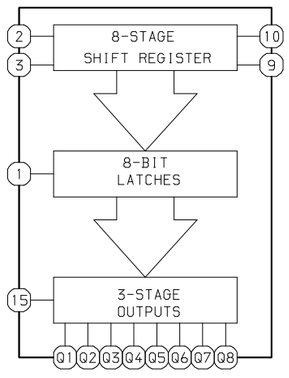
116 Q811 Collector (TU V) CHECK LAND



0.5V/div
0.2µS/div

IC BLOCK DIAGRAM

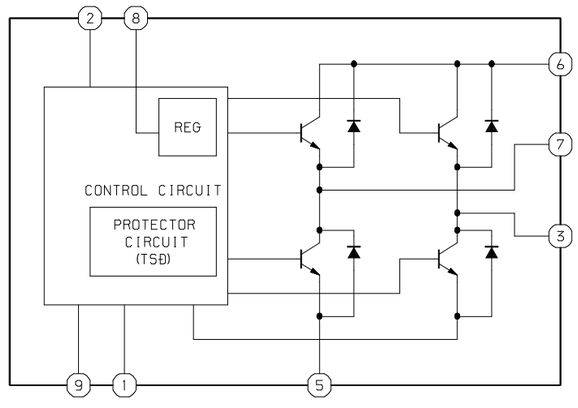
IC, TC4094BF



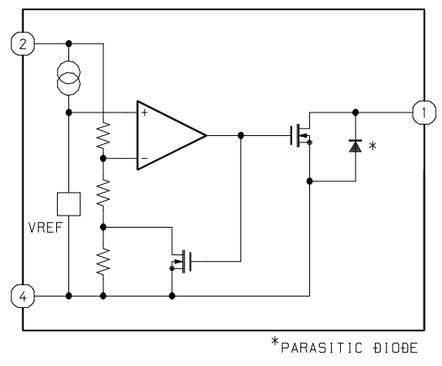
CL	OE	ST	Đ	PO		SO	
				Q1	QN	QS	Q'S
↑	H	H	L	L	QN-1	Q7	NC
↑	H	H	H	H	QN-1	Q7	NC
↑	H	L	X	NC	NC	Q7	NC
↑	L	X	X	HZ	HZ	Q7	NC
↓	H	X	X	NC	NC	NC	Q5
↓	L	X	X	HZ	HZ	NC	Q5

CL:CLOCK X:ĐONT'T CARE
OE:OUTPUT ENABLE NC:NO CHANGE
ST:STROBE HZ:HIGH IMPEAĐANCE
Đ:ĐATA
PO:PARALTIEL OUTPUTS
SO:SERIAL OUTPUT

IC, TA7291S

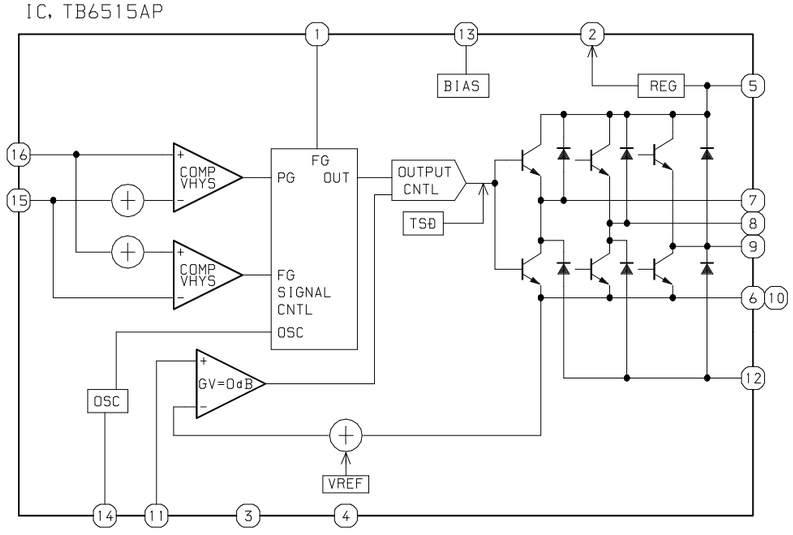


IC, S-80827ANNP-EĐO

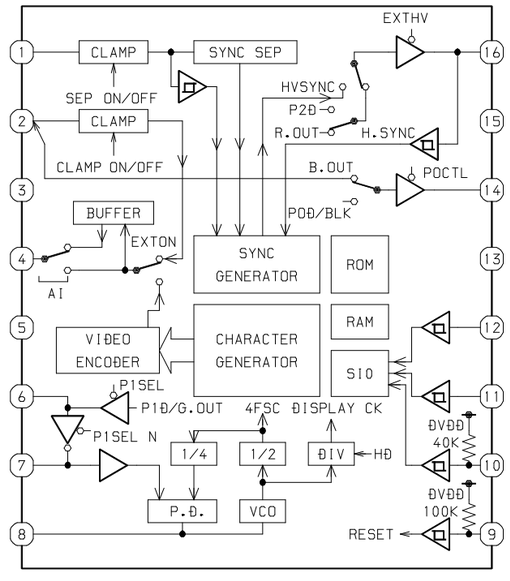


*PARASITIC ĐIOĐE

IC, TB6515AP



IC, TC90A24F-406



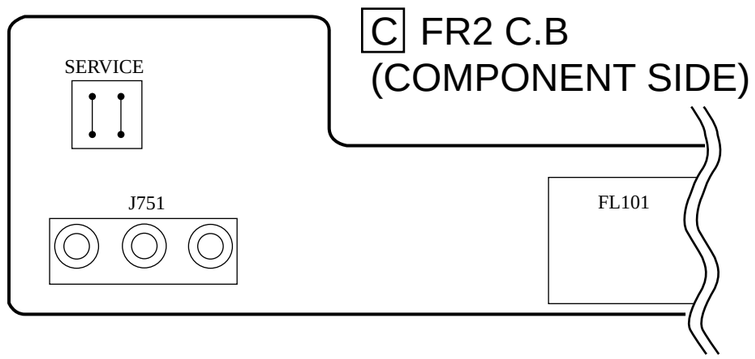
SERVICE MODE

1. Starting the Service Mode

Short the service jumpers on the front C.B to start the service mode. Each time it is shorted, the mode changes follows.
Service Mode 1 → 2 → 3 → Normal Mode

2. Releasing the Service Mode

If the mode switching operation is performed after starting, the normal mode is entered after mode 3 (the service mode is released). The service mode is also released when the power cord is unplugged from the AC outlet and plugged in again.

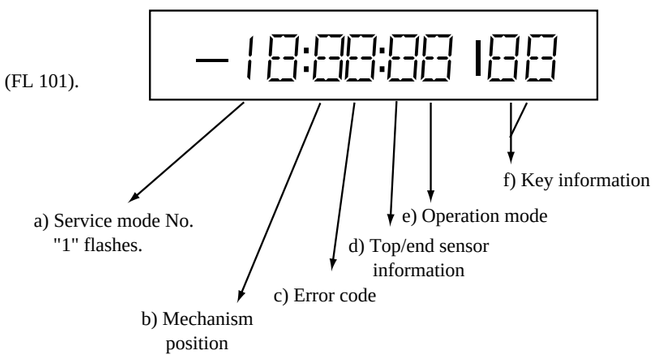


3. Overview

1. Service Mode 1

The following data is displayed in the FL display (FL 101).

a) Service mode No.
b) Mechanism position
c) Error code
d) Top/end sensor data
e) Operation mode
f) Key data



a) Mechanism Position

Code	Operating Mode Contents
0	LOADING/UNLOADING
2	THREADING/UNTHREADING
4	REVERSE (PINCH ON)
6	FORWARD (PINCH ON)/STAND BY
8	STOP (WITH MAIN BRAKE)
A	FF/REW 1 (HIGH SPEED)
C	FF/REW 2 (LOW SPEED)
F	OTHER POSITIONS

b) Error Code

Error Code	Contents Of Errors	State
0	NORMAL	-
1	DRUM ERROR	WHEN DRUM FG DOES NOT CHANGE OVER 2SEC
2	T-REEL ERROR	WHEN T-REEL DOES NOT CHANGE OVER 6SEC
3	S-REEL ERROR	WHEN S-REEL DOES NOT CHANGE OVER 6SEC
4	LOADING/UNLOADING ERROR	WHEN IT CAN'T FINISH CASSET IN/OUT WITHIN 5 SEC
5	THREADING/UNTHREADING ERROR	WHEN IT CAN'T NEXT POSITION FOR LOAD WITHIN 6SEC
9	PROTECT ERROR	WHEN PRT OR M-PRT IS "L" OVER 1SEC AT POWER ON

When a mechanism error has occurred, the error code will remain displayed for one hour. Also, if other mechanism errors have occurred, the error display will be changed. After making repairs, reset the error code using the method noted below.
During P-ON, drop the microcomputer's reset pin 76 to GND (approximately 1 second).

c) Top/End Sensor Information

Code	Top/End Information
0	TAPE TOP AND END DETECTION
1	TAPE TOP DETECTION
2	TAPE END DETECTION
3	NORMAL

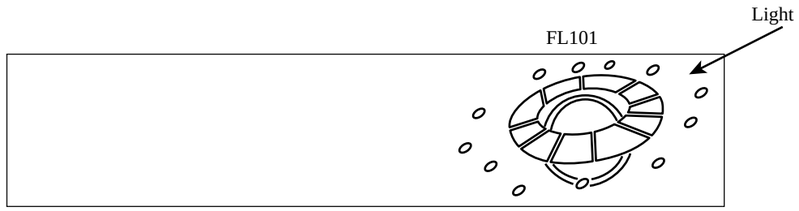
d) Operation Mode

Code	Operating Mode Contents
0	STAND BY
1	WHEN 5 MINUTES HAVE ELAPSED IN THE STAND-BY MODE,
	THE DRUM'S ROTATION STOPS AND THIS IS DISPLAYED
2	REW
3	REV
4	FF
5	CVE
6	PLAY
7	STILL/SLOW
8	X2 PLAY
9	TAPE IN P-OFF
A	REV PLAY
B	REV STILL/REV SLOW
C	REC
D	REC PAUSE
E	P-OFF EJECT
F	P-ON EJECT

e) Key data (with remote controller key)

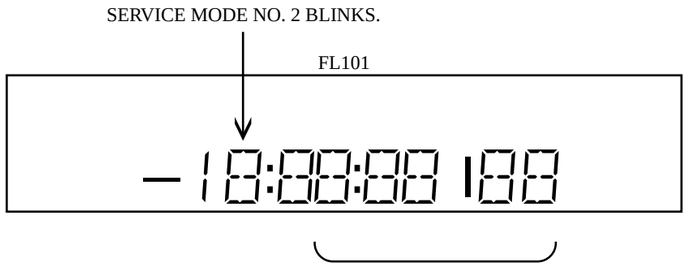
Code	Key Name
00	POWER
48	EJECT
15	PLAY
F6	DIMMER
1A	STOP
17	PAUSE
14	REC
40	CH (+)
41	CH (-)
89	OT PB
64/65/66/69/6A/6C/6D/74/75/76/79/7A/7C/7D *THE DISPLAY WILL DIFFER DEPENDING UPON THE SPEED	SH FWD RVS
B6	THEATER
FF	KEY OFF

Remote key input other than those listed above can be checked with the FL light shown in the figure below.



2. Service Mode 2

Display for the drum's revolution time (Displayed in decimal number)



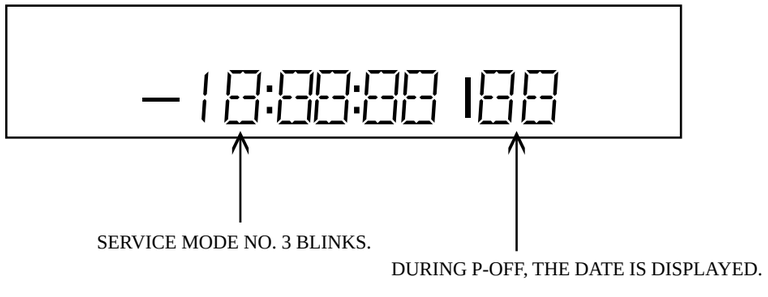
To Reset accumulated time:

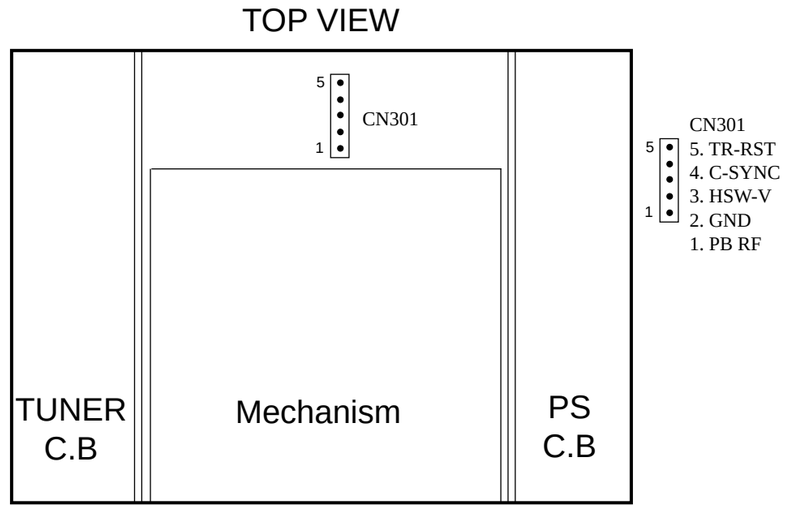
Accumulated time is reset by pressing CLEAR key for more than 2 seconds or by replacing E2PROM

* Do not reset in normal repairing.

3. Service Mode 3

The clock is advanced at 60 times the normal speed. When this mode is used to check clock.





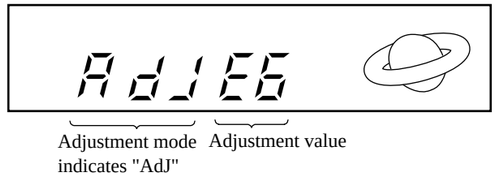
NOTE : Adjust switching position after reassembling mechanism assy.

1. Switching Position Adjustment
   MODE: PB TTV-P1
   Oscilloscope: CH-1: CN301 3 HSW-V
   CH-2: CN301 4 C-SYNC

Adjustment Method

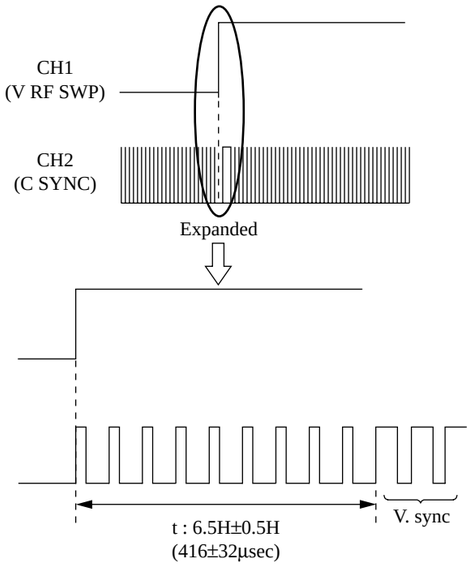
1) Set the tracking to the center.

* Short TR-RST (CN301 5) to GND. (CN301 2)
An indication appears on the FL display tube indicating that the machine is in the adjustment mode.



2) Press “A-TR” key in the remote controller, to activate HSW adjustment. FL diaplay will now indicate flashing “AdJ”.

FL display indicates cassette tape controller after HSW adjustment is finished.



3) Check “t” value with the oscilloscope.

Change the adjustment value using the CH(+),(-) keys of main unit until “t”specification is satisfied.

4) To cancel the adjustment mode, press STOP key or turn OFF the power.

IC DESCRIPTION

IC, TMP93CW76F-1A78,TMP93CW76F-1A77

Pin No.	Pin Name	I/O	Description
1	LOAD	O	Output terminal to loading motor rotation control.
2	UNLOAD	O	
3	$\overline{\text{S-SENS}}$	I	Tape top direction signal. L: when detected.
4	$\overline{\text{E-SENS}}$	I	Tape end detection signal. L: when detected.
5	SAFTY	I	Write protect/enable switch detection. L: record enable.
6	NC	–	Not used.
7~19	S0~S12	O	FDP segment signal.
20~29	T9~T0	O	FDP timing signal.
30	VFDP	–	Negative voltage (–) power supply for FDP.
31	VDD	–	Power supply +5V.
32	JOG VD	O	Pseudo vertical sync signal.
33	CAP LIM	O	I-LIMIT control signal output. PWM: during slowmotion mode.
34	CAP PWM	O	Capstan control PWM output.
35	DRUM PWM	O	Drum control PWM output.
36	REC–V/A	O	Video/Hi-Fi head amplifier record ON signal. H: during record.
37	HSW–A	O	H-Fi head amplifier select signal.
38	NA REC	O	Normal audio record ON signal. H: during record.
39	HSW–V	O	Video head amplifier select signal.
40	C–ROT	O	Chroma rotaion signal.
41	H–SEL	O	Video head amplifier select signal. H: when LP Head.
42	RMC OUT	O	Remote control signal output.
43	REC CTL	O	Ctl writing signal output. PULSE: during record.
44	PB CTL IN	I	CTL head pulses are input during playback.
45	DEG/PG IN	I	Drum FG/PG input.
46	RMC IN	I	Remote control signal input.
47	$\overline{\text{WAKE}}$	I	Power failure detection input. H: power is off. L: power is on.
48	CFGA IN	I	Capstan FG-A input.
49	CFGB IN	I	Capstan FG-B input.
50	C-SYNC	I	Compositr.
51	D–ENV	I	Video head playback output comparision signal.
52	SDA–R	I/O	I2C bus data signal. (video/hifi/MPX/RF).
53	SCL–R	O	I2C bus clock signal. (video/hifi/MPX/RF).
54	SDA–T	I/O	I2C bus data signal. (canal/tuner/vps.pdc/E2PROM).
55	SCL–T	O	I2C bus clock signal. (canal/tuner/vps.pdc/E2PROM).
56~58	KEY IN 1~3	I	Key read-out A/D input.
59	A LEVEL	I	Hi-Fi envelope detection input. (Analog input).
60	V LEVEL	I	Video envelope detection input for audio tracking (Analog input).
61	AFT	I	AFT voltage read-out A/D input.
62	AGC	I	AGC voltage read-out A/D input.

	STOP	Forward	Reverse	Break
LOAD	L	H	L	H
UNLOAD	L	L	H	H

Pin No.	Pin Name	I/O	Description
63	DEC	I	CANAL decoder detection input. L: when detected.
64	ADGND	–	A/D GND
65	ADREF	–	A/D reference voltage.
66	SPDATA	I	Serial data signal from TC4021.
67	TXD	O	Serial data signal for TC4094 & OSD IC.
68	CLK	O	Serial clock signal for communication with TC4094 and OSD.
69	T–REEL	I	Take up reel rotation detection input.
70	S–REEL	I	Supply reel rotation detection input.
71	XT/2	O	Terminal for check of system clock.
72	GND	–	GND.
73	X1	–	External 16MHz crystal for main clock is connected to this terminal.
74	X2	–	
75	Not use	–	Connetcted to power supply.
76	RESET	–	CPU reset input.
77	XT1	–	External 32.768 kHz crystal for sub clock is connected to this terminal.
78	XT2	–	
79	TSET1	O	Connected to power TEST2.
80	TSET2	I	Connected to power TEST1.
81	NC	–	Not used.
82	SNSR CTL	O	TOP/END sensor LED drive signal.
83	STRB1	O	TC4094 chip select signal.
84	STRB2	O	TC4021 chip select signal.
85	OSD RESET	O	Reset for OSD IC signal.
86	A MUTE	O	Audio mute signal. H: mute.
87	OSD STRB	O	OSD IC chip select signal.
88	T–POWER	O	Timer power supply ON signal. L: power off. H: power on.
89	P–BU	O	RF power supply ON signal. L: power off. H: power on.
90	$\overline{\text{P–ON}}$	O	REG power supply ON signal. L: power off. H: power on.
91	$\overline{\text{P–CA}}$	O	CANAL power supply ON signal. L: power off. H: power on.
92	M–PRT	I	Motor-power monitoring input.
93	P–STBY	O	Power supply control signal. STBY5V.
94	CAP RVS	O	Capstan inverted signal. L: normal rotation. H: reverse rotation.
95	$\overline{\text{PCBTEST}}$	I	Test mode starting up input.
96	$\overline{\text{CAON}}$	I	Picture input from TV detection input during save mode.
97	$\overline{\text{HF DET}}$	I	Hi-Fi detection signal input. L: whwn detected.
98~100	CAM C, B, A	I	Mechanism mode switch C, B, A.

IC, MSP3417D

Pin No.	Pin Name	I/O	Description
1,21~22,27,28	TP (NC)	–	Test Pin.
2, 19, 26, 32	NC	–	Not connected
3	D CTR OUT1 (NC)	O	Digital control output1.
4	D CTR OUT0(NC)	O	Digital control output0.
5	ADR SEL	I	I2C Bus adress select.
6	STANDBYQ	I	Standby (Low active).
7	I2C CL	I/O	I2C clock.
8	I2C DA	I/O	I2C data.
9~15	TP (NC)	–	Test pin.
16	DVSUP	–	DIGITAL POWER SUPPLY +5V.
17	DVSS	–	DIGITAL GROUND.
18	TP (NC)	I	Test pin.
20	RESETQ	I	Power-on reset.
23	VREF2	–	Reference ground 2 high voltage part.
24	DACM R	O	Speaker out, right.
25	DACM L	O	Speaker out, left.
29	VREF1	–	Reference ground 1 high voltage part.
30	SC1 OUT R	O	Serial output 1 right.
31	SC1 OUT L	O	Serial output 1 left.
33	AHVSUP	–	Analog power suppy 8.0 V.
34	CAPL M	–	Volume capacitor MAIN.
35	AHVSS	–	Analog ground.
36	AGNDC	–	Analog reference voltage high voltage part.
37 ~ 40	NC	–	Not conncted.
41	SC1 IN L	I	Scart input 1 in, left.
42	SC1 IN R	I	Scart input 1 in, right.
43	VREFTOP	–	Reference voltage IF A/D converter.
44	MONO IN	I	Mono input.

IC, TC4021BF

Pin No.	Pin Name	I/O	Description
1	IN8	I	MESECAM/PAL detection input.
2, 11, 12	NC	–	Not use.
3	SPDATA	O	Serial data signal.
4 ~ 7	IN4 ~ 1	I	Shuttle switch signal input 4 ~ 1.
8	GND	–	GND.
9	STRB	I	TC4021 chip select signal.
10	CLK	I	Serial clock signal.
13, 14	IN5, 6	I	Jog switch signal input 1, 2.
15	IN7	I	Power monitoring input.
16	VCC	–	Power supply +5V.

IC, SDA5650P–DIP–14

Pin No.	Pin Name	I/O	Description
1	VSS	–	Ground (0V).
2	SCL	I	Serial clock input of I^2C Bus.
3	SDA	I	Serial data input of I^2C Bus.
4.	CSO	I	Chip select input determining the I^2C-Bus addresses: 20H/21H, (low) 22H/23H, (high).
5	VCS	O	Video Composite Sync output from sync slicer used for PLL based clock generation.
6	$\overline{\text{DAV}}$	O	Data available output active low, when VPS data is received.
7	EHB	O	Output signaling the presence of the first field active high.
8	TI	I	Test input; activates test mode when pulled high. Connect to ground for operating mode.
9	PD1	O	Phase detector/charge pump output of data PLL (DAPLL).
10	PD2	I/O	Connector of the loop filter for the SYSPLL.
11	VCO	I	Input to the voltage controlled oscillator #1 of the DAPLL.
12	IREF	I	Reference current input for the on-chip analog circuit.
13	CBVS	I	Composite video signal input.
14	VDD	–	Positive supply voltage (+5V nom).

VOLTAGE CHART

IC 101 (TMP93CW76F)

PIN NO.	EE	REC	PB
1	0	0	0
2	0	0	0
3	0.7	4.9	4.9
4	0.7	4.9	4.9
5	5.0	0	5.0
6	-22	-29	-29
7	-23	-16	-9
8	-23	-26	-26
9	-20	-9	-9
10	-27	-19	-20
11	-20	-23	-20
12	-23	-5.6	-13
13	-25	-16	-16
14	-25	-23	-27
15	-25	-26	-27
16	-25	-16	-13
17	-21	-19	-20
18	-25	-23	-23
19	-30	-26	-30
20	-27	-26	-27
21	-27	-26	-27
22	-27	-26	-27
23	-27	-26	-27
24	-27	-26	-27
25	-27	-26	-27
26	-27	-25	-27
27	-27	-25	-27
28	-27	-25	-27
29	-27	-25	-27
30	-30	-30	-30
31	5.0	5.0	5.0
32	0.1	0.1	0
33	0.6	2.1	2.1
34	0.1	2.6	2.5
35	0.1	2.7	2.7
36	0	5.0	0
37	2.5	2.5	2.5
38	0	4.9	0
39	2.5	2.5	2.7
40	2.5	2.5	2.5
41	0	0	0
42	0	0	0

PIN NO.	EE	REC	PB
43	0.2	3.0	0
44	0.1	2.5	2.6
45	0.1	1.2	1.2
46	4.0	5.1	5.1
47	0	0	0
48	4.4	2.2	2.2
49	0.4	2.2	2.2
50	0.7	0.5	0.5
51	0.6	0.2	0
52	4.7	5.1	5.1
53	5.0	5.1	5.1
54	5.0	5.0	5.0
55	5.0	5.0	5.0
56	5.2	5.1	5.1
57	5.2	5.1	5.1
58	3.9	3.9	3.9
59	0	0.1	0.9
60	0.3	0	2.6
61	2.6	2.7	2.6
62	2.7	2.7	2.7
63	5.2	5.2	5.1
64	0	0	0
65	5.2	5.2	5.1
66	5.0	5.0	5.0
67	0.1	0.1	0
68	5.0	4.9	5.0
69	0.1	0.9	0
70	5.0	2.8	0
71	5.1	5.1	5.1
72	0	0	0
73	2.0	2.0	2.0
74	2.0	2.0	2.0
75	5.1	5.0	5.0
76	5.0	5.0	5.0
77	2.1	2.1	2.0
78	2.7	2.6	2.6
79	0	0.2	0
80	0	0.2	0
81	0.2	0.2	0
82	4.5	4.5	4.6
83	0	0	0
84	0	0	0

PIN NO.	EE	REC	PB
85	5.1	5.1	5.0
86	0	0	0
87	4.8	4.8	4.8
88	5.0	5.0	5.0
89	5.0	5.0	5.0
90	0	0	0
91	0	0	0
92	4.8	4.8	4.8
93	5.0	4.9	4.9
94	5.0	0	0
95	5.2	5.1	5.1
96	0	0	0
97	0	0	0
98	0	0	0
99	0	5.0	5.0
100	0	0	0

IC 102 (S-80827ANNP-EDQ)

PIN NO.	EE	REC	PB
1	5.0	5.0	5.0
2	5.0	5.0	5.0
3	0	0	0
4	0	0	0

IC 103 (S-24C08AFJA)

PIN NO.	EE	REC	PB
1	0	0	0
2	0	0	0
3	0	0	0
4	0	0	0
5	5.0	5.0	5.0
6	5.0	5.0	5.0
7	0	0	0
8	5.0	5.0	5.0

IC 104 (LA7123)

PIN NO.	EE	REC	PB
1	0	0	0
2	2.5	2.5	2.5
3	0.8	0.8	1.2
4	2.5	2.5	2.5
5	2.5	2.5	2.5
6	2.5	2.5	2.5

PIN NO.	EE	REC	PB
7	0	1.8	0
8	0	1.2	0
9	0	0	0
10	0	5.0	0
11	0	4.4	0
12	0	3.0	0
13	0	0	0
14	5.0	5.0	5.0
15	4.3	2.0	2.6
16	2.5	2.5	2.5
17	2.5	2.5	2.5
18	2.5	2.5	2.5
19	2.5	2.5	2.5
20	2.5	2.5	2.5
21	2.5	2.5	2.5
22	5.0	5.0	5.0
23	0	2.2	2.2
24	2.5	2.5	2.5
25	2.5	2.5	2.5
26	2.5	2.5	2.5
27	4.4	2.2	2.2
28	2.5	2.5	2.5
29	0	0	0
30	0	0	0

IC 105 (TA7291S)

PIN NO.	EE	REC	PB
1	0	0	0
2	14.7	14.4	14.4
3,4	0	0	0
5	0	0	0
6	14.7	14.4	14.4
7	0	0	0
8	14.7	14.4	14.4
9	0	0	0

IC 106 (TB6515AP)

PIN NO.	EE	REC	PB
1	0	1.2	1.3
2	1.4	1.4	1.4
3	0	0	0
4	0	0	0
5	14.7	14.4	14.4

PIN NO.	EE	REC	PB
6	0	0	0
7	14.6	11.0	11.1
8	14.6	11.0	11.1
9	14.6	11.0	11.1
10	0	0	0
11	0.1	2.6	2.7
12	0	0	0
13	5.1	5.2	5.2
14	3.2	3.3	3.2
15	0.6	0.6	0.6
16	0.8	0.7	0.7

IC 107 (TC4094BF)

PIN NO.	EE	REC	PB
1	0	0	0
2	0	0	0
3	5.0	4.9	5.0
4	0	0	0
5	0	0	0
6	0	0	0
7	0	0	0
8	0	0	0
9	2.3	2.1	2.5
10	2.6	2.7	2.5
11	0	0	0
12	0	0	0
13	0	0	0
14	0	0	0
15	5.0	5.0	5.0
16	5.0	5.0	5.0

IC108 (TC4094BF)

PIN NO.	EE	REC	PB
1	0	0	0
2	2.3	2.3	2.3
3	5.0	4.9	5.0
4	5.0	4.9	5.0
5	0	0	0
6	0	0	0
7	0	0	0
8	0	0	0
9	2.2	2.2	2.4
10	2.6	2.7	2.6

PIN NO.	EE	REC	PB
11	0	0	0
12	0	0	0
13	0	0	0
14	5.0	5.0	5.0
15	5.0	5.0	5.0
16	5.0	5.0	5.0

Q103, 104 (2SC2412KR)

PIN	EE	REC	PB
E	0	0	0
C	0	0	0
B	0.6	0.6	0.6

Q108 (2SC2412KR)

PIN	EE	REC	PB
E	0	0	0
C	0	0	0
B	0.7	0.6	0.8

Q101 (2SA952K)

PIN	EE	REC	PB
E	5.1	5.1	5.1
C	5.1	5.0	5.0
B	4.4	4.4	4.4

Q110 (KRC104S)

PIN	EE	REC	PB
E	0	0	0
C	15.3	15.1	15.1
B	0	0	0

Q109 (2SB1443)

PIN	EE	REC	PB
E	15.3	15.1	15.1
C	13.7	12.9	12.9
B	15.3	15.1	15.1

Q107 (KRC104S)

PIN	EE	REC	PB
E	0	0	0
C	26.3	25.9	25.9
B	0	0	0

Q102 (2SB1443)

PIN	EE	REC	PB
E	26.4	25.9	25.9
C	13.1	12.1	12.2
B	26.3	25.9	25.9

Q113 (2SC2412K)

PIN	EE	REC	PB
E	0	4.4	0
C	5.0	5.0	5.0
B	0	5.0	0

Q105 (PT493F)

PIN	EE	REC	PB
E	0	0	0
C	0.7	4.9	4.8

Q106 (PT493F)

PIN	EE	REC	PB
E	0	0	0
C	0.7	5.0	5.0

Q111 (KRC104S)

PIN	EE	REC	PB
E	0	0	0
C	0	0	0
B	0	0	0

Q112 (KRC104S)

PIN	EE	REC	PB
E	0	0	0
C	0	0	0
B	0	4.8	0

D114 (LED,GL451V)

PIN	EE	REC	PB
A	1.2	1.2	1.2
K	0	0	0

S102 (SW, LEAF REC SWITCH)

PIN	EE	REC	PB
1	5.0	0	5.0
2	0	0	0

PS 101 (SNSR, GP1S566)

PIN NO.	EE	REC	PB
1	1.2	1.2	1.2
2	0	0	0
3	5.0	2.5	2.5
4	0	0	0

PS 102 (SNSR, GP1S566)

PIN NO.	EE	REC	PB
1	1.2	1.2	1.1
2	0	0	0
3	0	2.5	2.5
4	0	0	0

CN101

PIN NO.	EE	REC	PB
1	0	0	0
2	0	0	0
3	0	0	0
4	0	0	0
5	5.1	5.1	5.1
6	0	0	0
7	5.1	5.1	5.1
8	0	0	0
9	5.1	5.1	5.1
10	5.1	5.1	5.1
11	5.1	5.1	5.1
12	5.1	5.1	5.1
13	0	0	0
14	0	0	0
15	0	0	0
16	0	0	0
17	0	0	0
18	0	0	0

CN102

PIN NO.	EE	REC	PB
1	0	0	0
2	3.9	0	0
3	0	0	0
4	5.0	5.0	5.0
5	0	0	0

PIN NO.	EE	REC	PB
6	5.0	5.0	5.0
7	4.9	4.9	4.9
8	5.0	5.0	5.0
9	5.0	530	530
10	5.1	5.1	5.1
11	0	0	0
12	0	0	0
13	5.1	5.1	5.1
14	5.1	5.1	5.1
15	0	0	0

IC 702 (TC4021)

PIN NO.	EE	REC	PB
1	5.0	5.0	5.0
2	5.0	5.0	5.0
3	5.0	5.0	5.0
4	5.0	5.0	5.0
5	5.0	5.0	5.0
6	5.0	5.0	5.0
7	5.0	5.0	5.0
8	0	0	0
9	0	0	0
10	4.9	4.09	4.9
11	0	0	0
12	5.0	5.0	5.0
13	5.0/0	5.0/0	5.0/0
14	5.0/0	5.0/0	5.0/0
15	5.0	5.0	5.0
16	5.0	5.0	5.0

Q752, 754 (KRC104S)

PIN	EE	REC	PB
E	0	0	0
C	5.1	5.1	5.1
B	0	0	0

IC701 (NJL68H380)

PIN	EE	REC	PB
1	5.1	5.1	5.1
2	0	0	0
3.	5.1	5.1	5.1

Q701 (2SD1858)

PIN	EE	REC	PB
E	0	0	0
C	4.4	4.4	4.4
B	0	0	0

Q702 (2SC2412KR)

PIN	EE	REC	PB
E	0	0	0
C	4.4	4.4	4.4
B	0	0	0

Q751 (2SD1858)

PIN	EE	REC	PB
E	0	0	0
C	3.8	3.8	3.8
B	0	0	0

Q756 (2SC2412KR)

PIN	EE	REC	PB
E	0	0	0
C	3.8	3.8	3.8
B	0	0	0

Q602 (KRA104S)

PIN	P OFF	P ON	PB	PB WIDE
E	14.0	13.8	13.6	13.6
C	0	0	13.5	13.5
B	14.0	13.6	0	0

Q603 (KRC104S)

PIN	P OFF	P ON	PB	PB WIDE
B	0	0	8.8	8.8

Q601 (KRC104S)

PIN	P OFF	P ON	PB	PB WIDE
C	0	0	11.4	0
B	0	0	0	5.0

D603 (HZS12A1)

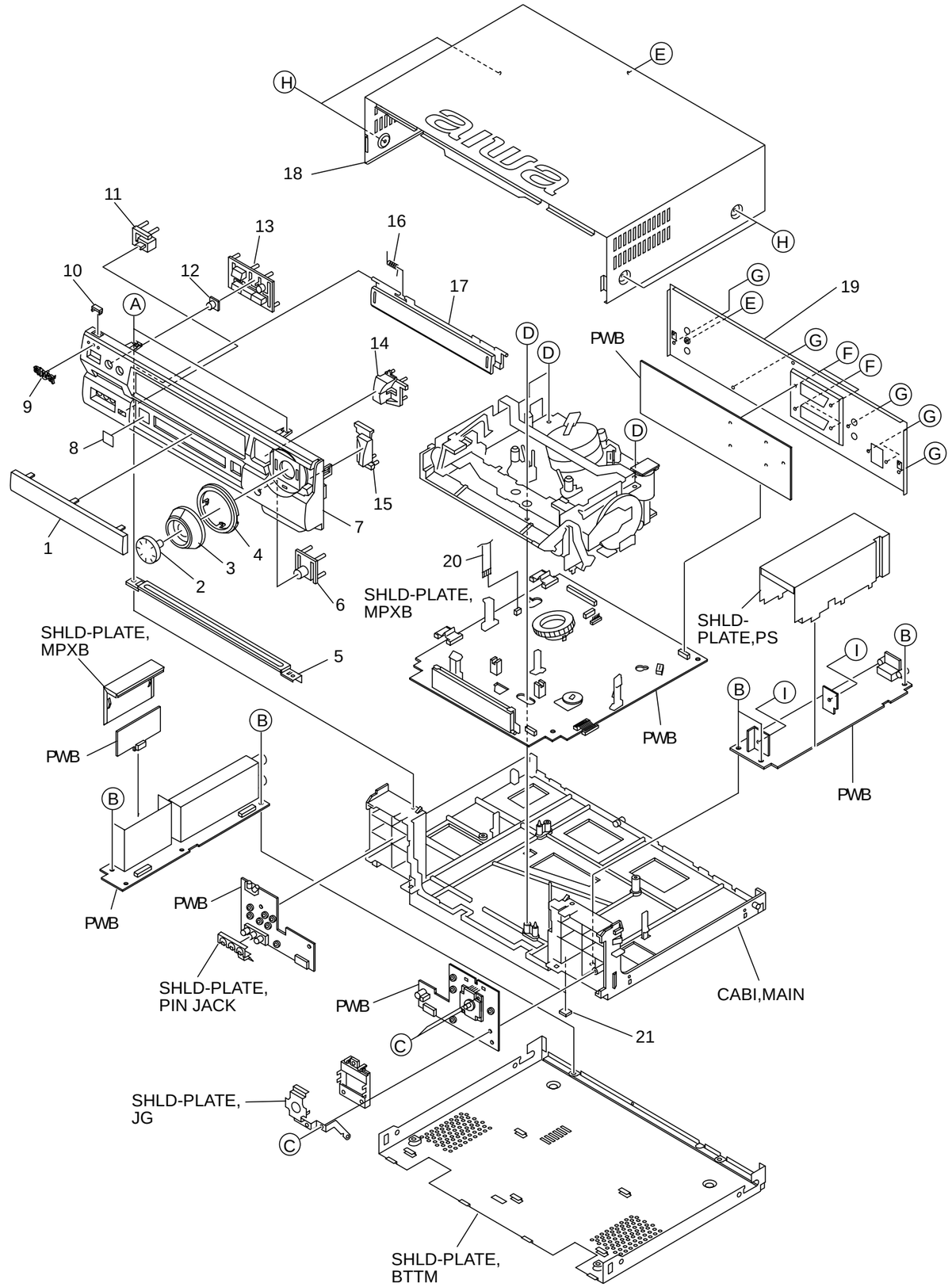
PIN	P OFF	P ON	PB	PB WIDE
C	0	0	11.8	10.1

D605 (1SS184)

PIN	P OFF	P ON	PB	PB WIDE
ANODE	0	0	11.4	6.7
CATHODE	0	0	10.8	6.2

PB WIDE=OSD MENU ASPECT RATIO ----16:9

MECHANICAL EXPLODED VIEW 1 / 1



MECHANICAL PARTS LIST 1 / 1

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
1	8A-JU1-026-010		WINDOW,DSPLY<EH>
1	8A-JU1-006-010		WINDOW,DSPLY<K>
2	8Z-JU2-013-010		KNOB,RTRY JOG
3	8Z-JU2-012-010		KNOB,RTRY SHUTTLE
4	8A-JU1-011-010		CAP, RING
5	8Z-JU1-215-010		HLDR,STAY
6	8Z-JU2-015-010		KEY,REC 2
7	8A-JU1-001-010		CABI,FR
8	8A-JU1-018-010		PLATE,BBE
9	87-B00-002-010		BADGE,AIWA 30 ABS SIL
10	8Z-JU1-016-010		WINDOW,LED
11	8Z-JU2-014-010		KEY,DEMO 2
12	8A-JU1-010-010		BTN,PB
13	8A-JU1-007-010		KEY,POWER
14	8A-JU1-008-010		KEY,CONT
15	8A-JU1-009-010		KEY,PAUSE
16	84-JP9-202-010		SPR-T,DOOR
17	8A-JU1-025-010		DOOR,CASS<EH>
17	8A-JU1-005-010		DOOR,CASS<K>
18	8Z-JU1-003-010		CABI,STEE
19	8A-JU1-024-010		PANEL,REAR<EH>
19	8A-JU1-004-010		PANEL,REAR<K>
20	88-907-141-110		FF-CABLE, 7P 1.25 140MM
21	81-JUK-045-010		FELT,FOOT 8-8
A	87-067-758-010		BVT2+3-12 W/O SLOT
B	87-067-579-010		TAPPING SCREW, BVT2+3-8
C	87-B10-089-410		VT2+3-12 W/O GOLD
D	87-078-070-010		BVIT3B+4-12
E	87-067-716-010		TAPPING SCREW, BVTT+3-6
F	87-078-180-010		BVT2+3.5-12(BLK)
G	87-067-660-010		TAPPING SCREW, BVT2+3-8
H	87-067-761-010		TAPPING SCREW, BVT2+3-10
I	87-067-703-010		TAPPING SCREW, BVT2+3-10

COLOR NAME TABLE

Basic color symbol	Color	Basic color symbol	Color	Basic color symbol	Color
B	Black	C	Cream	D	Orange
G	Green	H	Gray	L	Blue
LT	Transparent Blue	N	Gold	P	Pink
R	Red	S	Silver	ST	Titan Silver
T	Brown	V	Violet	W	White
WT	Transparent White	Y	Yellow	YT	Transparent Yellow
LM	Metallic Blue	LL	Light Blue	GT	Transparent Green
LD	Dark Blue	DT	Transparent Orange	GM	Metallic Green
YM	Metallic Yellow	DM	Metallic Orange	PT	Transparent Pink

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