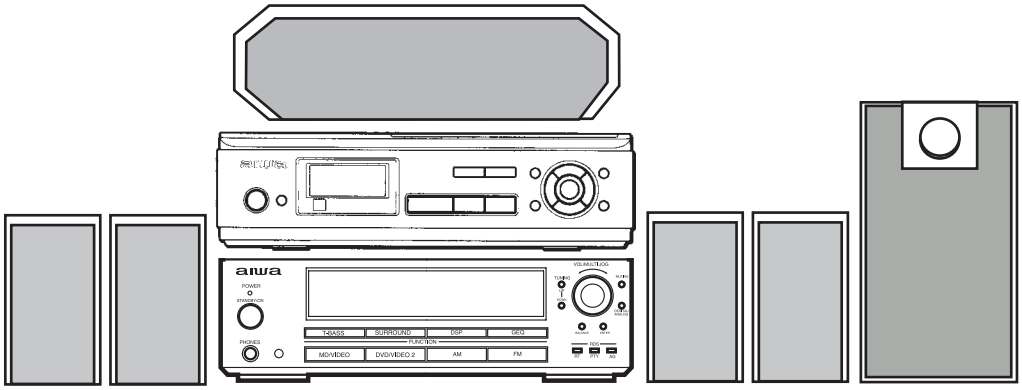
aiwa SERVICE

HT-DV50 EZ



SERVICE MANUAL

DVD SYSTEM BASIC DVD/CD MECHANISM : DV32BF

SYSTEM	STEREO RECEIVER	DVD PLAYER	SPEAKER SYSTEM	REMOTE CONTROLLER
HT-DV50	AV-HD50	XD-DV50	SX-AVW50 SX-CR677	RC-AAR05 RC-AVL01

• This Service Manual is the “Revision Publishing” and replaces “Simple Manual” AV-HD50 (EZ), (S/M Code No. 09-00C-439-7T1).

aiwa

S/M Code No. 09-012-439-7R1

REVISION DATA

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SPECIFICATIONS

Stereo Receiver AV-HD50

FM tuner section

Tuning range 87.5 MHz to 108 MHz
Usable sensitivity (IHF) 16.2 dBf
Antenna jack 75 ohms (unbalanced)

AM tuner section

Tuning range 530 kHz to 1710 kHz (10 kHz step)
531 kHz to 1602 kHz (9 kHz step)
Usable sensitivity 700 µV/m
Antenna Loop antenna

Amplifier section

Power output (Stereo Mode)

Front
Rated : 20 W + 20 W (3 ohms, T.H.D. 1 %, 1 kHz/DIN 45500)
Reference : 30 W + 30 W (3 ohms, T.H.D. 10 %, 1 kHz/DIN 45324)
DIN MUSIC POWER : 30 W + 30 W

Power output (Dolby Digital, DTS, or Dolby Pro Logic Mode)

Front
Rated : 20 W + 20 W (3 ohms, T.H.D. 1 %, 1 kHz/DIN 45500)
Reference : 30 W + 30 W (3 ohms, T.H.D. 10 %, 1 kHz/DIN 45324)
DIN MUSIC POWER : 30 W + 30 W

Rear (Surround)
Rated : 20 W + 20 W (3 ohms, T.H.D. 1 %, 1 kHz/DIN 45500)
Reference : 30 W + 30 W (3 ohms, T.H.D. 10 %, 1 kHz/DIN 45324)
DIN MUSIC POWER : 30 W + 30 W

Center
Rated : 20 W (3 ohms, T.H.D. 1 %, 1 kHz/DIN 45500)
Reference : 30 W (3 ohms, T.H.D. 10 %, 1 kHz/DIN 45324)
DIN MUSIC POWER : 30 W

Subwoofer
Rated : 20 W (3 ohms, T.H.D. 1 %, 100 Hz/DIN 45500)
Reference : 30 W (3 ohms, T.H.D. 10 %, 100 Hz/DIN 45324)
DIN MUSIC POWER : 30 W

Total harmonic distortion 0.2 % (12 W, 1 kHz, 3 ohms, DIN AUDIO, Front)

Input/Output

Input
AUDIO VIDEO 1 IN, AUDIO VIDEO 2 IN : 360 mV (47 kohms)
DIGITAL IN MD, DIGITAL IN DVD : accept linear PCM signals and Dolby Digital and DTS surround bitstream (32 kHz, 44.1 kHz, 48 kHz, and 96 kHz)
VIDEO VIDEO 1 IN, VIDEO VIDEO 2 IN : 1 Vp-p (75 ohms, unbalanced)

Output
AUDIO VIDEO 1 OUT : 320 mV (47 kohms)
DIGITAL OUT
VIDEO VIDEO 1 OUT, MONITOR OUT : 1 Vp-p (75 ohms, unbalanced)
FRONT SPEAKERS : accept speakers of 3 ohms
SURROUND SPEAKERS : accept speakers of 3 ohms
CENTER SPEAKER : accept speakers of 3 ohms
SUB WOOFER terminal : 3 ohms
SUB WOOFER jack : 800 mV
PHONES (mini jack) : accepts headphones of 32 ohms or more

General

Power requirements 230 V AC, 50 Hz
Power consumption 70 W
Power consumption in standby mode ECO OFF : 3.8 W
ECO ON : 3.0 W
Dimensions 230 (W) x 103 (H) x 233.5 (D) mm
Weight 2.0 kg

DVD Player XD-DV50

Colour system	**DVD** : PAL **VCD** : NTSC/PAL (Switchable)
Supported discs	**DVD video discs** 12 cm (single-sided single-layer, single-sided double-layer, double-sided-double layer) 8 cm (single-sided single-layer, single-sided double-layer, double-sided-double layer) **Compact discs (CD-DA, video CD)** 12 cm and 8 cm discs
Video output	Video composite output 1 Vp-p (75 ohms, sync negative) RAC jacks S2 video output Y output : 1 Vp-p (75 ohms, sync negative) C output : 0.286 Vp-p
Audio output	**LINE OUT AUDIO R/L** 140 mV RMS (1 kHz, -20 dB) RAC jacks (L/R) **OPTICAL DIGITAL OUT** Fiber optical connector (IEC 958)
Audio output characteristics	Frequency range : CD/VCD : 20 Hz to 20 kHz DVD : 4 Hz to 22 kHz (48 kHz sampling) 4 Hz to 44 kHz (96 kHz sampling) Wow and flutter : unmeasurable
Operating conditions	5 °C to 35 °C (41 °F to 95 °F)
Dimensions	230 x 65 x 180 mm
Weight	950 g
AC adaptor	100-240 V AC, 50/60 Hz DC 10 V, 1.3 A Power consumption 12 W

Speaker System SX-AVW50

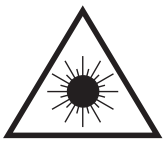
Speakers	Front, Surround, Center : full range, 70 mm cone type Subwoofer : 140 mm x 2, bass reflex type
Impedance	3 ohms
Maximum input power	30 W (peak)
Dimensions (W x H x D)	Front : 90 x 167 x 76 mm Surround : 90 x 167 x 76 mm Center : 235 x 90 x 76 mm Subwoofer : 181 x 406 x 265 mm
Weight	Front : 0.45 kg Surround : 0.4 kg Center : 0.5 kg Subwoofer : 4.5 kg

- Design and specifications are subject to change without notice.
- Manufactured under license from Dolby Laboratories Licensing Corporation.
  “DOLBY”, the double-D symbol and "PRO LOGIC" are trademarks of Dolby Laboratories Licensing Corporation.
- Manufactured under license from Digital Theater System, Inc. US Pat. No. 5,451,942 and other worldwide patents issued and pending. "DTS" and "DTS Digital Surround" are trademarks of Digital Theater System Inc.

PROTECTION OF EYES FROM LASER BEAM DURING SERVICING

This set employs laser. Therefore, be sure to follow carefully the instructions below when servicing.

WARNING!
WHEN SERVICING, DO NOT APPROACH THE LASER EXIT WITH THE EYE TOO CLOSELY. IN CASE IT IS NECESSARY TO CONFIRM LASER BEAM EMISSION. BE SURE TO OBSERVE FROM A DISTANCE OF MORE THAN 30cm FROM THE SURFACE OF THE OBJECTIVE LENS ON THE OPTICAL PICK-UP BLOCK.



- Caution: Invisible laser radiation when open and interlocks defeated avoid exposure to beam.
- Advarsel: Usynlig laserståling ved åbning, når sikkerhedsafbrydere er ude af funktion. Undgå udsættelse for stråling.

VAROITUS!
Laiteen Käyttäminen muulla kuin tässä käyttöohjeessa mainitulla tavalla saataa altistaa käyt-täjän turvallisuusluokan 1 ylittävälle näkymättömälle lasersäteilylle.

VARNING!
Om apparaten används på annat sätt än vad som specificeras i denna bruksanvising, kan användaren utsättas för osynling laserstrålning, som överskrider gränsen för laserklass 1.

CAUTION
Use of controls or adjustments or performance of procedures other than those specified herin may result in hazardous radiation exposure.

ATTENTION
L'utillisation de commandes, réglages ou procédures autres que ceux spécifiés peut entraîner une dangereuse exposition aux radiations.

ADVARSEL!
Usynlig laserståling ved åbning, når sikkerhedsafbrydereer ude af funktion. Undgå udsættelse for stråling.

This Compact Disc player is classified as a CLASS 1 LASER product.
The CLASS 1 LASER PRODUCT label is located on the rear exterior.

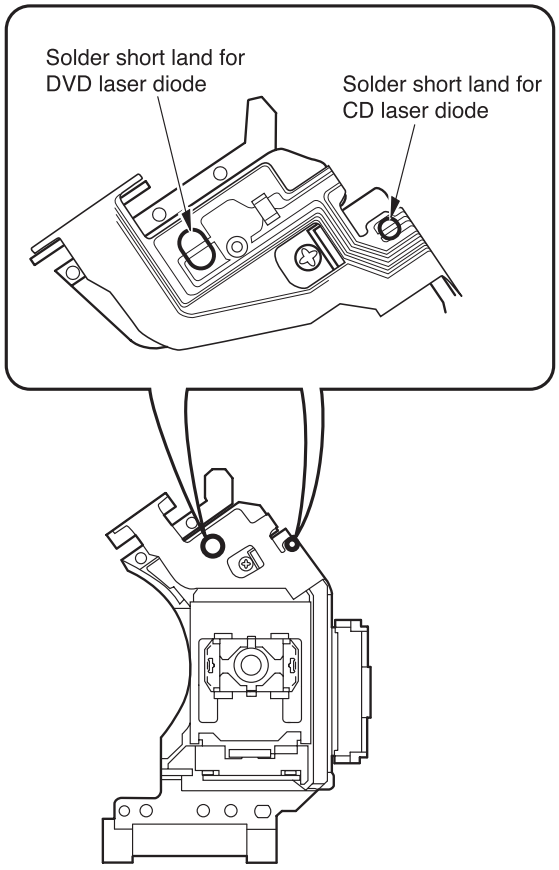
CLASS 1	LASER PRODUCT
KLASSE 1	LASER PRODUKT
LUOKAN 1	LASER LAITE
KLASS 1	LASER APPARAT

Precaution to replace Optical block

Body or clothes electrostatic potential could ruin laser diode in the optical block. Be sure ground body and workbench, and use care the clothes do not touch the diode.

1) After the connection, remove solder shown in the right figure.

(SF-HD3AV/HD3AVC)



MODEL NO.

AV-HD50

ELECTRICAL MAIN PARTS LIST

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
IC			
	87-A21-918-040		C-IC,NJM4558V
	87-A21-862-010		IC,STR-F6676
	87-A21-819-010		IC,SE013E
	87-020-970-010		IC,NJM79L09
	87-A20-389-010		IC,NJM7809FA
	87-A21-825-040		C-IC,M61501FP
	8A-AR6-601-010		C-IC,UPD780308-033
	87-020-730-080		IC,TC4069UBF
	87-A21-831-010		IC,SPS-422-1-F1
	87-002-943-080		IC,TC4011BF
	87-020-903-010		IC,NJM7805FA
	87-A21-824-010		IC,TA2020-020
	87-A20-736-010		IC,BA033ST
	87-A21-760-040		C-IC,NJM4580V
	87-A21-503-010		C-IC,AK4527VQ
	87-A21-823-040		C-IC,NJM4556AM
	87-A21-504-010		IC,GP1F37R1
	87-A21-967-010		IC,GP1FA551TZ
	87-A21-826-040		C-IC,AK4112A
	87-A21-500-010		C-IC,YSS912
	87-020-784-040		C-IC,TC4053BF
	87-070-205-010		IC,TC9299P
	87-A21-419-040		C-IC,NJM14558MD-TE2
	87-A20-820-010		IC,BA7625
	87-A20-440-040		C-IC,BU1920FS
	87-A21-695-010		IC,LA1845L
	87-A21-928-010		IC,LC72131D-N
TRANSISTOR			
	87-A30-075-080		C-TR,2SA1235F
	87-026-610-080		TR,KTC3198GR
	87-A30-107-070		C-TR,CMBT5401
	87-A30-076-080		C-TR,2SC3052F
	87-A30-071-080		C-TR,RT1N 144C
	89-213-702-010		TR,2SB1370E
	87-A30-074-080		C-TR,RT1P 141C
	87-A30-083-080		TR,CSD1489B
	89-110-155-080		TR,2SA1015GR
	89-318-155-080		TR,2SC1815GR
	87-A30-117-010		TR,2SA1357 Y
	89-320-011-080		TR,2SC2001K
	87-A30-087-080		C-FET,2SK2158
	87-A30-164-080		TR,CSC2001K
	87-A30-086-040		C-TR,CSD1306E
	87-026-608-080		C-TR,DTC123JK
	87-026-609-080		TR,KTA1266GR
	89-503-602-080		C-FET,2SK360E
	89-327-143-080		C-TR,2SC2714O
	87-A30-234-080		TR,CSC4115BC
	87-A30-489-080		C-TR,KRA107S
DIODE			
	87-020-465-080		DIODE,1SS133
⚠	87-A41-021-010		DIODE,RBV-606
	87-A40-955-080		DIODE,SARS01
	87-A40-951-080		DIODE,AG01Z
	87-A40-960-080		ZENER,MTZJ36B
	87-A40-458-080		ZENER,MTZJ18B
	87-A40-509-080		ZENER,MTZJ6.8C
	87-A40-950-010		DIODE,FMB-26L
	87-A40-953-080		DIODE,EK09
	87-A40-574-080		ZENER,MTZJ3.0A
	87-A40-269-080		C-DIODE,MC2836
	87-A40-270-080		C-DIODE,MC2838
	87-017-931-080		ZENER,MTZJ5.6B
	87-A40-002-080		ZENER,MTZJ5.1C
	87-A40-956-080		DIODE,EK04
	87-A40-553-080		DIODE,1N4003 LES
	87-070-274-080		DIODE,1N4003 SEM
	87-017-932-080		ZENER,MTZJ6.2B
	87-A40-344-080		ZENER,MTZJ6.2C
	87-A40-345-080		ZENER,MTZJ10C
	87-A40-348-080		ZENER,MTZJ3.3A
	87-070-136-080		ZENER,MTZJ5.1B
	87-017-149-080		ZENER,HZS6A2L
MAIN C.B			
⚠	C2	87-A11-353-010	CAP,M/P 0.22-275 M ECQUL
⚠	C3	87-A11-352-010	CAP,M/P 0.1-275 M ECQUL
⚠	C4	87-A10-413-010	CAP,CER 2200P-4K M E KX
⚠	C5	87-A10-413-010	CAP,CER 2200P-4K M E KX
⚠	C6	87-A10-922-090	CAP,CER 0.01-250 M F KH
	C7	87-A10-646-090	CAP,E 220-400 SMH (25.4*40)
	C8	87-A12-447-010	CAP,M/P 0.01-1000 J
	C9	87-A12-095-080	CAP,E 100-50 SMG
	C10	87-A11-104-080	CAP,TC U 470P-50 J CH
	C11	87-A11-104-080	CAP,TC U 470P-50 J CH
	C12	87-A10-833-080	CAP,CER 1000P-2K K R
⚠	C13	87-A10-519-010	CAP,CER 4700P-4K M E KX
	C14	87-A11-148-080	CAP,TC U 0.1-50 Z F
⚠	C15	87-A10-922-090	CAP,CER 0.01-250 M F KH
⚠	C16	87-A10-519-010	CAP,CER 4700P-4K M E KX
⚠	C17	87-A10-519-010	CAP,CER 4700P-4K M E KX
⚠	C18	87-A10-519-010	CAP,CER 4700P-4K M E KX
⚠	C19	87-A10-519-010	CAP,CER 4700P-4K M E KX
	C20	87-010-196-080	CHIP CAPACITOR,0.1-25
	C21	87-A12-070-080	CAP,E 33-25 SMG
	C51	87-014-081-080	CAP,PP 0.01-100 J
	C52	87-A10-730-080	CAP,E 1000-16 SMG
	C53	87-A10-831-010	CAP,E 1000-25 M SMG
	C54	87-014-081-080	CAP,PP 0.01-100 J
	C55	87-010-928-000	CAP,E 4700-25 M SMG
	C56	87-010-197-080	CAP, CHIP 0.01 DM
	C57	87-010-196-080	CHIP CAPACITOR,0.1-25
	C58	87-010-186-080	CAP,CHIP 4700P
	C59	87-016-083-080	C-CAP,S 0.15-16 RK
	C60	87-012-393-080	C-CAP,S 0.22-16 R K
	C61	87-A10-831-010	CAP,E 1000-25 M SMG
	C64	87-A10-918-080	CAP,E 100-16 SMG
	C65	87-A12-067-080	CAP,E 330-16 SMG
	C81	87-A12-091-080	CAP,E 10-50 SMG
	C82	87-A12-073-080	CAP,E 220-25 SMG
	C83	87-A12-091-080	CAP,E 10-50 SMG
	C84	87-A12-679-080	CAP,E 47-16 M OS
	C85	87-010-178-080	CHIP CAP 1000P
	C86	87-010-198-080	CAP, CHIP 0.022
	C87	87-016-521-010	CAP,E2200-16 SMG
	C101	87-010-196-080	CHIP CAPACITOR,0.1-25
	C102	87-010-196-080	CHIP CAPACITOR,0.1-25
	C103	87-010-196-080	CHIP CAPACITOR,0.1-25
	C104	87-010-196-080	CHIP CAPACITOR,0.1-25
	C105	87-010-196-080	CHIP CAPACITOR,0.1-25
	C106	87-010-196-080	CHIP CAPACITOR,0.1-25
	C107	87-010-805-080	CAP, S 1-16
	C108	87-010-805-080	CAP, S 1-16

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
C109	87-010-805-080		CAP, S 1-16
C110	87-010-805-080		CAP, S 1-16
C111	87-010-805-080		CAP, S 1-16
C112	87-010-805-080		CAP, S 1-16
C113	87-A10-918-080		CAP,E 100-16 SMG
C114	87-A10-918-080		CAP,E 100-16 SMG
C115	87-A10-918-080		CAP,E 100-16 SMG
C201	87-A12-088-080		CAP,E 2.2-50 SMG
C202	87-A12-088-080		CAP,E 2.2-50 SMG
C203	87-012-368-080		C-CAP,S 0.1-50 F
C204	87-012-368-080		C-CAP,S 0.1-50 F
C205	87-A10-507-080		CAP,E 220-10 M 105 KME
C206	87-A12-087-080		CAP,E 1-50 SMG
C207	87-012-368-080		C-CAP,S 0.1-50 F
C211	87-016-141-080		CAP,E 1-50 KME
C212	87-012-368-080		C-CAP,S 0.1-50 F
C216	87-010-050-010		CAP,E 470-25
C217	87-012-368-080		C-CAP,S 0.1-50 F
C229	87-A10-201-080		C-CAP,S0.33-16 KB
C230	87-A10-201-080		C-CAP,S0.33-16 KB
C231	87-A12-769-080		CAP,E 1000-25 M 105 KMG
C233	87-010-154-080		CAP CHIP 10P-50
C234	87-010-154-080		CAP CHIP 10P-50 D
C235	87-010-322-080		C-CAP,S 100P-50 CH
C236	87-010-322-080		C-CAP,S 100P-50 CH
C237	87-016-369-080		C-CAP,S 0.033-25 B K
C238	87-016-369-080		C-CAP,S 0.033-25 B K
C239	87-016-369-080		C-CAP,S 0.033-25 B K
C240	87-016-369-080		C-CAP,S 0.033-25 B K
C301	87-A12-088-080		CAP,E 2.2-50 SMG
C302	87-A12-088-080		CAP,E 2.2-50 SMG
C303	87-012-368-080		C-CAP,S 0.1-50 F
C304	87-012-368-080		C-CAP,S 0.1-50 F
C305	87-A10-507-080		CAP,E 220-10 M 105 KME
C306	87-A12-087-080		CAP,E 1-50 SMG
C307	87-012-368-080		C-CAP,S 0.1-50 F
C311	87-016-141-080		CAP,E 1-50 KME
C312	87-012-368-080		C-CAP,S 0.1-50 F
C316	87-010-050-010		CAP,E 470-25
C317	87-012-368-080		C-CAP,S 0.1-50 F
C329	87-A10-201-080		C-CAP,S0.33-16 KB
C330	87-A10-201-080		C-CAP,S0.33-16 KB
C331	87-A12-769-080		CAP,E 1000-25 M 105 KMG
C333	87-010-154-080		CAP CHIP 10P-50 D
C334	87-010-154-080		CAP CHIP 10P-50 D
C335	87-010-322-080		C-CAP,S 100P-50 CH
C336	87-010-322-080		C-CAP,S 100P-50 CH
C337	87-016-369-080		C-CAP,S 0.033-25 B K
C338	87-016-369-080		C-CAP,S 0.033-25 B K
C339	87-016-369-080		C-CAP,S 0.033-25 B K
C340	87-016-369-080		C-CAP,S 0.033-25 B K
C401	87-A12-088-080		CAP,E 2.2-50 SMG
C402	87-A12-088-080		CAP,E 2.2-50 SMG
C403	87-012-368-080		C-CAP,S 0.1-50 F
C404	87-012-368-080		C-CAP,S 0.1-50 F
C405	87-A10-507-080		CAP,E 220-10 M 105 KME
C406	87-A12-087-080		CAP,E 1-50 SMG
C407	87-012-368-080		C-CAP,S 0.1-50 F
C411	87-016-141-080		CAP,E 1-50 KME
C412	87-012-368-080		C-CAP,S 0.1-50 F
C416	87-010-050-010		CAP,E 470-25
C417	87-012-368-080		C-CAP,S 0.1-50 F
C429	87-A10-201-080		C-CAP,S0.33-16 KB
C430	87-A10-201-080		C-CAP,S0.33-16 KB
C431	87-A12-769-080		CAP,E 1000-25 M 105 KMG
C433	87-010-154-080		CAP CHIP 10P-50 D
C434	87-010-154-080		CAP CHIP 10P-50 D
C435	87-010-322-080		C-CAP,S 100P-50 CH
C436	87-010-322-080		C-CAP,S 100P-50 CH
C437	87-016-369-080		C-CAP,S 0.033-25 B K
C438	87-016-369-080		C-CAP,S 0.033-25 B K
C439	87-016-369-080		C-CAP,S 0.033-25 B K
C440	87-016-369-080		C-CAP,S 0.033-25 B K
⚠ CN1	87-099-674-010		CONN,2P V VA
CN51	87-A60-624-010		CONN,7P V 2MM JMT
CN52	87-A60-620-010		CONN,3P V 2MM JMT
CN551	87-A60-056-010		CONN,12P V 9604S-12C
CN552	87-A60-059-010		CONN,08P V 9604S-08C
⚠ F1	87-035-237-010		FUSE,2A 250V F217
FB51	87-008-372-080		FILTER, EMI BL01 RN1
FB52	87-008-372-080		FILTER, EMI BL01 RN1
FB53	87-008-372-080		FILTER, EMI BL01 RN1
FB54	87-008-474-080		F-BEAD,EMI BL02RN1-R62T2 EMI
⚠ FC1	87-A90-160-080		FUSE CLAMP,FC 51F
⚠ FC2	87-A90-160-080		FUSE CLAMP,FC 51F
FC551	88-912-091-110		FF-CABLE,12P 1.25 90MM
FC552	88-908-121-110		FF-CABLE,8P 1.25 120MM
J51	87-A61-504-010		JACK,DC 5.15 BLK 10.5
J201	87-A61-548-010		TERMINAL, 4P LQR0410-0117
J301	87-A61-547-010		TERMINAL, 8P LQR0810-0311
⚠ JW203	87-A90-195-080		PROTECTOR 7A 491SERIES 60V
⚠ JW303	87-A90-195-080		PROTECTOR 7A 491SERIES 60V
⚠ JW403	87-A90-195-080		PROTECTOR 7A 491SERIES 60V
⚠ L1	87-A92-140-010		FLTR,LINE HF2836-253
L81	87-A50-693-010		COIL,39UH-RCR-110D
L201	87-A50-696-010		COIL,10UH 7310
L202	87-A50-696-010		COIL,10UH 7310
L203	87-A50-696-010		COIL,10UH 7310
L204	87-A50-696-010		COIL,10UH 7310
L301	87-A50-696-010		COIL,10UH 7310
L302	87-A50-696-010		COIL,10UH 7310
L303	87-A50-696-010		COIL,10UH 7310
L304	87-A50-696-010		COIL,10UH 7310
L401	87-A50-696-010		COIL,10UH 7310
L402	87-A50-696-010		COIL,10UH 7310
L403	87-A50-696-010		COIL,10UH 7310
L404	87-A50-696-010		COIL,10UH 7310
⚠ PR51	87-A90-091-080		PROTECTOR,2A 491SERIES 60V
⚠ PS1	87-A91-407-010		P-COUPLER,0N3171-R
⚠ PT1	8A-AR6-608-010		PT,SW AAR-6EZ
R2	87-A00-244-090		RES,M/F 68K-2W J RSF(S)
R4	87-A00-161-090		RES,M/F 47-2W J RSF(S)
R5	87-025-332-090		RES,NF 10-1/4W
R10	87-A00-283-090		RES,M/F 0.27-2W J RSF(S)
R11	87-A00-283-090		RES,M/F 0.27-2W J RSF(S)
R81	87-A00-258-080		RES,M/F 0.22-1W J
R95	87-A00-260-080		RES,M/F 0.47-1W J
RY201	87-045-389-010		RELAY,12V OSA-SS-212DM5
RY301	87-045-389-010		RELAY,12V OSA-SS-212DM5
RY401	87-045-389-010		RELAY,12V OSA-SS-212DM5
TH1	87-A91-978-010		THMS,NTH11D5R0

FRONT C.B

C101	87-010-322-080		C-CAP,S 100P-50 CH
C102	87-010-322-080		C-CAP,S 100P-50 CH
C103	87-010-322-080		C-CAP,S 100P-50 CH
C104	87-010-322-080		C-CAP,S 100P-50 CH
C105	87-010-312-080		C-CAP,S 15P-50 CH
C106	87-012-140-080		CAP 470P
C107	87-012-155-080		C-CAP 180P-50CH
C108	87-010-322-080		C-CAP,S 100P-50 CH
C109	87-A10-819-040		CAP,E 47-25 5L SRM
C110	87-010-196-080		CHIP CAPACITOR,0.1-25
C111	87-010-322-080		C-CAP,S 100P-50 CH
C112	87-010-322-080		C-CAP,S 100P-50 CH
C113	87-010-322-080		C-CAP,S 100P-50 CH
C114	87-010-322-080		C-CAP,S 100P-50 CH
C115	87-010-322-080		C-CAP,S 100P-50 CH

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
C116	87-010-322-080		C-CAP,S 100P-50 CH
C117	87-010-322-080		C-CAP,S 100P-50 CH
C118	87-010-322-080		C-CAP,S 100P-50 CH
C120	87-010-322-080		C-CAP,S 100P-50 CH
C121	87-010-322-080		C-CAP,S 100P-50 CH
C122	87-010-322-080		C-CAP,S 100P-50 CH
C123	87-010-322-080		C-CAP,S 100P-50 CH
C124	87-010-322-080		C-CAP,S 100P-50 CH
C125	87-010-322-080		C-CAP,S 100P-50 CH
C127	87-010-322-080		C-CAP,S 100P-50 CH
C128	87-010-322-080		C-CAP,S 100P-50 CH
C129	87-010-322-080		C-CAP,S 100P-50 CH
C130	87-010-322-080		C-CAP,S 100P-50 CH
C131	87-010-322-080		C-CAP,S 100P-50 CH
C132	87-010-322-080		C-CAP,S 100P-50 CH
C133	87-010-322-080		C-CAP,S 100P-50 CH
C134	87-010-322-080		C-CAP,S 100P-50 CH
C135	87-010-322-080		C-CAP,S 100P-50 CH
C136	87-010-322-080		C-CAP,S 100P-50 CH
C137	87-010-322-080		C-CAP,S 100P-50 CH
C138	87-010-322-080		C-CAP,S 100P-50 CH
C140	87-010-196-080		CHIP CAPACITOR,0.1-25
C141	87-016-459-080		CAP,E 470-10 SMG
C143	87-010-196-080		CHIP CAPACITOR,0.1-25
C144	87-010-178-080		CHIP CAP 1000P
C145	87-010-182-080		C-CAP,S 2200P-50 B
C146	87-010-182-080		C-CAP,S 2200P-50 B
C147	87-012-156-080		C-CAP,S 220P-50 CH
C148	87-010-178-080		CHIP CAP 1000P
C150	87-010-415-040		CAP,E 10-50 5L
C151	87-010-198-080		CAP, CHIP 0.022
C201	87-010-196-080		CHIP CAPACITOR,0.1-25
C202	87-010-075-040		CAP,E 10-16 5L
C203	87-010-196-080		CHIP CAPACITOR,0.1-25
C205	87-010-493-040		CAP,E 0.47-50 M 5L SRE
C206	87-010-198-080		CAP, CHIP 0.022
C207	87-010-178-080		CHIP CAP 1000P
C301	87-010-196-080		CHIP CAPACITOR,0.1-25
C401	87-010-494-040		CAP,E 1-50 M 5L SRE
C402	87-010-494-040		CAP,E 1-50 M 5L SRE
C405	87-010-154-080		CAP CHIP 10P-50D
C406	87-010-154-080		CAP CHIP 10P-50D
C408	87-A10-819-040		CAP,E 47-25 5L SRM
C409	87-A10-819-040		CAP,E 47-25 5L SRM
C410	87-A10-819-040		CAP,E 47-25 5L SRM
CN101	87-A60-046-010		CONN,25P V 9604S-25C
CN102	87-A60-056-010		CONN,12P V 9604S-12C
CN401	87-A60-063-010		CONN,04P V 9604S-04C
CNA103	8A-AR6-642-010		CONN ASSY,3P -HOLD
FC101	88-925-201-110		FF-CABLE,25P 1.25 200MM
FC401	88-904-081-110		FF-CABLE,4P 1.25 80MM
L101	87-A50-655-010		COIL,CLK 4.19MHZ (TOKO)7KLY
L104	87-003-154-080		COIL,220UH
LCD101	8A-AR6-602-010		LCD,AIW4262
LED301	87-017-469-080		LED,SEL2215S TP3 RED
S101	87-A90-095-080		SW,TACT EVQ11G04M
S102	87-A90-095-080		SW,TACT EVQ11G04M
S103	87-A90-095-080		SW,TACT EVQ11G04M
S104	87-A90-095-080		SW,TACT EVQ11G04M
S105	87-A90-095-080		SW,TACT EVQ11G04M
S106	87-A90-095-080		SW,TACT EVQ11G04M
S107	87-A90-095-080		SW,TACT EVQ11G04M
S108	87-A90-095-080		SW,TACT EVQ11G04M
S109	87-A90-095-080		SW,TACT EVQ11G04M
S110	87-A90-095-080		SW,TACT EVQ11G04M
S111	87-A90-095-080		SW,TACT EVQ11G04M
S112	87-A90-095-080		SW,TACT EVQ11G04M
S113	87-A90-095-080		SW,TACT EVQ11G04M
S114	87-A90-095-080		SW,TACT EVQ11G04M
S115	87-A90-095-080		SW,TACT EVQ11G04M
S116	87-A90-095-080		SW,TACT EVQ11G04M
S117	87-A90-095-080		SW,TACT EVQ11G04M
S118	87-A90-095-080		SW,TACT EVQ11G04M
SW101	87-A92-066-010		SW,RTRY EC12E24104A5

FUNC C.B

C1	87-010-402-080		CAP, ELECT 2.2-50V
C2	87-010-402-080		CAP, ELECT 2.2-50V
C3	87-010-406-080		CAP, ELECT 22-50
C4	87-010-260-080		CAP, ELECT 47-25V
C101	87-A12-091-080		CAP,E 10-50 SMG
C102	87-A12-091-080		CAP,E 10-50 SMG
C103	87-010-322-080		C-CAP,S 100P-50 CH
C104	87-010-322-080		C-CAP,S 100P-50 CH
C105	87-A12-091-080		CAP,E 10-50 SMG
C106	87-A12-091-080		CAP,E 10-50 SMG
C107	87-010-322-080		C-CAP,S 100P-50 CH
C108	87-010-322-080		C-CAP,S 100P-50 CH
C109	87-A12-091-080		CAP,E 10-50 SMG
C110	87-A12-091-080		CAP,E 10-50 SMG
C111	87-010-322-080		C-CAP,S 100P-50 CH
C112	87-010-322-080		C-CAP,S 100P-50 CH
C113	87-A12-091-080		CAP,E 10-50 SMG
C114	87-A12-091-080		CAP,E 10-50 SMG
C115	87-A12-091-080		CAP,E 10-50 SMG
C116	87-A12-091-080		CAP,E 10-50 SMG
C117	87-010-598-080		C-CAP,S 0.068-16VRK
C118	87-010-598-080		C-CAP,S 0.068-16VRK
C119	87-010-188-080		CAP,CHIP 6800P
C120	87-010-188-080		CAP,CHIP 6800P
C121	87-010-188-080		CAP,CHIP 6800P
C122	87-010-188-080		CAP,CHIP 6800P
C123	87-A12-091-080		CAP,E 10-50 SMG
C124	87-A12-091-080		CAP,E 10-50 SMG
C125	87-016-083-080		C-CAP,S 0.15-16 RK
C126	87-016-083-080		C-CAP,S 0.15-16 RK
C127	87-016-083-080		C-CAP,S 0.15-16 RK
C128	87-016-083-080		C-CAP,S 0.15-16 RK
C129	87-A12-091-080		CAP,E 10-50 SMG
C130	87-A12-091-080		CAP,E 10-50 SMG
C132	87-010-196-080		CHIP CAPACITOR,0.1-25
C133	87-010-263-080		CAP, ELECT 100-10V
C134	87-010-263-080		CAP, ELECT 100-10V
C135	87-016-459-080		CAP,E 470-10 SMG
C136	87-010-196-080		CHIP CAPACITOR,0.1-25
C137	87-010-196-080		CHIP CAPACITOR,0.1-25
C138	87-012-156-080		C-CAP,S 220P-50 CH
C139	87-012-156-080		C-CAP,S 220P-50 CH
C140	87-012-140-080		CAP 470P
C149	87-010-196-080		CHIP CAPACITOR,0.1-25
C150	87-012-368-080		C-CAP,S 0.1-50 F
C171	87-A12-091-080		CAP,E 10-50 SMG
C201	87-010-196-080		CHIP CAPACITOR,0.1-25
C202	87-010-248-080		CAP, ELECT 220-10V
C203	87-010-196-080		CHIP CAPACITOR,0.1-25
C204	87-010-248-080		CAP, ELECT 220-10V
C205	87-010-196-080		CHIP CAPACITOR,0.1-25
C206	87-010-248-080		CAP, ELECT 220-10V
C207	87-010-263-080		CAP, ELECT 100-10V
C208	87-010-196-080		CHIP CAPACITOR,0.1-25
C301	87-A12-091-080		CAP,E 10-50 SMG
C302	87-A12-091-080		CAP,E 10-50 SMG
C303	87-A12-071-080		CAP,E 47-25 SMG
C304	87-A12-071-080		CAP,E 47-25 SMG
C305	87-010-854-080		C-CAP,S 560PCH
C306	87-010-854-080		C-CAP,S 560PCH
C312	87-A10-918-080		CAP,E 100-16 SMG
C316	87-010-197-080		CAP, CHIP 0.01 DM
C317	87-010-263-080		CAP, ELECT 100-10V

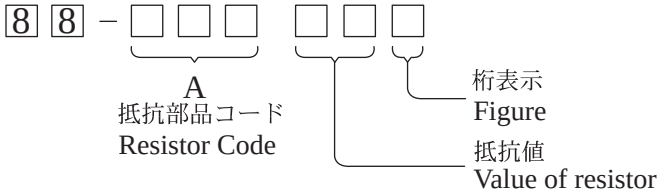
REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
C318	87-010-196-080		CHIP CAPACITOR,0.1-25
C319	87-010-248-080		CAP, ELECT 220-10V
C320	87-010-196-080		CHIP CAPACITOR,0.1-25
C321	87-A12-091-080		CAP,E 10-50 SMG
C322	87-010-196-080		CHIP CAPACITOR,0.1-25
C324	87-010-322-080		C-CAP,S 100P-50 CH
C325	87-010-322-080		C-CAP,S 100P-50 CH
C326	87-012-140-080		CAP 470P
C335	87-010-196-080		CHIP CAPACITOR,0.1-25
C336	87-A11-132-080		CAP,TC U 0.01-50 K B
C401	87-010-182-080		C-CAP,S 2200P-50 B
C402	87-010-182-080		C-CAP,S 2200P-50 B
C403	87-010-182-080		C-CAP,S 2200P-50 B
C404	87-010-322-080		C-CAP,S 100P-50 CH
C405	87-010-322-080		C-CAP,S 100P-50 CH
C406	87-010-263-080		CAP, ELECT 100-10V
C407	87-010-196-080		CHIP CAPACITOR,0.1-25
C408	87-010-263-080		CAP, ELECT 100-10V
C409	87-010-196-080		CHIP CAPACITOR,0.1-25
C412	87-010-263-080		CAP, ELECT 100-10V
C413	87-010-196-080		CHIP CAPACITOR,0.1-25
C417	87-010-322-080		C-CAP,S 100P-50 CH
C418	87-010-322-080		C-CAP,S 100P-50 CH
C419	87-010-322-080		C-CAP,S 100P-50 CH
C423	87-010-178-080		CHIP CAP 1000P
C424	87-010-322-080		C-CAP,S 100P-50 CH
C501	87-010-401-080		CAP, ELECT 1-50V
C502	87-010-401-080		CAP, ELECT 1-50V
C503	87-010-401-080		CAP, ELECT 1-50V
C504	87-010-401-080		CAP, ELECT 1-50V
C505	87-010-374-080		CAP, ELECT 47-10V
C506	87-010-197-080		CAP, CHIP 0.01 DM
C507	87-010-263-080		CAP, ELECT 100-10V
C508	87-010-196-080		CHIP CAPACITOR,0.1-25
C509	87-010-196-080		CHIP CAPACITOR,0.1-25
C510	87-010-197-080		CAP, CHIP 0.01 DM
C511	87-012-140-080		CAP 470P
C512	87-010-196-080		CHIP CAPACITOR,0.1-25
C513	87-010-322-080		C-CAP,S 100P-50 CH
C514	87-010-196-080		CHIP CAPACITOR,0.1-25
C515	87-010-374-080		CAP, ELECT 47-10V
C520	87-010-196-080		CHIP CAPACITOR,0.1-25
C521	87-010-401-080		CAP, ELECT 1-50V
C522	87-010-196-080		CHIP CAPACITOR,0.1-25
C523	87-010-314-080		C-CAP,S 22P-50V
C526	87-010-314-080		C-CAP,S 22P-50V
C527	87-010-314-080		C-CAP,S 22P-50V
C528	87-010-404-080		CAP, ELECT 4.7-50V
C529	87-010-196-080		CHIP CAPACITOR,0.1-25
C530	87-010-196-080		CHIP CAPACITOR,0.1-25
C531	87-010-196-080		CHIP CAPACITOR,0.1-25
C532	87-010-197-080		CAP, CHIP 0.01 DM
C541	87-010-311-080		CAP 12P
C542	87-010-313-080		CAP, CHIP 18P
C601	87-A12-091-080		CAP,E 10-50 SMG
C602	87-A12-091-080		CAP,E 10-50 SMG
C603	87-010-178-080		CHIP CAP 1000P
C604	87-010-178-080		CHIP CAP 1000P
C605	87-012-154-080		C-CAP,S 150P-50 CH
C606	87-012-154-080		C-CAP,S 150P-50 CH
C607	87-010-196-080		CHIP CAPACITOR,0.1-25
C608	87-010-196-080		CHIP CAPACITOR,0.1-25
C610	87-A12-091-080		CAP,E 10-50 SMG
C611	87-A12-091-080		CAP,E 10-50 SMG
C612	87-010-322-080		C-CAP,S 100P-50 CH
C613	87-010-322-080		C-CAP,S 100P-50 CH
C621	87-A12-091-080		CAP,E 10-50 SMG
C622	87-A12-091-080		CAP,E 10-50 SMG
C623	87-010-178-080		CHIP CAP 1000P
C624	87-010-178-080		CHIP CAP 1000P
C625	87-012-154-080		C-CAP,S 150P-50 CH
C626	87-012-154-080		C-CAP,S 150P-50 CH
C627	87-010-196-080		CHIP CAPACITOR,0.1-25
C628	87-010-196-080		CHIP CAPACITOR,0.1-25
C641	87-A12-091-080		CAP,E 10-50 SMG
C642	87-A12-091-080		CAP,E 10-50 SMG
C643	87-010-178-080		CHIP CAP 1000P
C644	87-010-178-080		CHIP CAP 1000P
C645	87-012-154-080		C-CAP,S 150P-50 CH
C646	87-012-154-080		C-CAP,S 150P-50 CH
C647	87-010-196-080		CHIP CAPACITOR,0.1-25
C648	87-010-196-080		CHIP CAPACITOR,0.1-25
C661	87-A12-091-080		CAP,E 10-50 SMG
C662	87-A12-091-080		CAP,E 10-50 SMG
C663	87-016-669-080		C-CAP,S 0.1-25 K B
C664	87-016-669-080		C-CAP,S 0.1-25 K B
C665	87-A12-091-080		CAP,E 10-50 SMG
C666	87-A12-091-080		CAP,E 10-50 SMG
C667	87-A12-091-080		CAP,E 10-50 SMG
C668	87-016-083-080		C-CAP,S 0.15-16 RK
C669	87-010-196-080		CHIP CAPACITOR,0.1-25
C670	87-010-196-080		CHIP CAPACITOR,0.1-25
C701	87-010-154-080		CAP CHIP 10P
C702	87-010-154-080		CAP CHIP 10P
C703	87-A12-091-080		CAP,E 10-50 SMG
C704	87-A12-091-080		CAP,E 10-50 SMG
C705	87-010-196-080		CHIP CAPACITOR,0.1-25
C706	87-010-196-080		CHIP CAPACITOR,0.1-25
C707	87-A12-091-080		CAP,E 10-50 SMG
C708	87-A12-091-080		CAP,E 10-50 SMG
C721	87-016-083-080		C-CAP,S 0.15-16 RK
C722	87-016-083-080		C-CAP,S 0.15-16 RK
C723	87-010-154-080		CAP CHIP 10P
C724	87-010-154-080		CAP CHIP 10P
C725	87-A12-091-080		CAP,E 10-50 SMG
C726	87-A12-091-080		CAP,E 10-50 SMG
C727	87-010-196-080		CHIP CAPACITOR,0.1-25
C728	87-010-196-080		CHIP CAPACITOR,0.1-25
C741	87-010-154-080		CAP CHIP 10P
C742	87-010-154-080		CAP CHIP 10P
C743	87-A12-091-080		CAP,E 10-50 SMG
C744	87-A12-091-080		CAP,E 10-50 SMG
C745	87-010-196-080		CHIP CAPACITOR,0.1-25
C746	87-010-196-080		CHIP CAPACITOR,0.1-25
C751	87-010-196-080		CHIP CAPACITOR,0.1-25
C752	87-012-358-080		C-CAP,S 0.47-10 F Z
C753	87-010-196-080		CHIP CAPACITOR,0.1-25
C754	87-A10-793-080		C-CAP,S 0.12-16 K B
C755	87-A10-793-080		C-CAP,S 0.12-16 K B
C756	87-010-597-080		C-CAP,S 0.056-16V,RK
C761	87-A12-091-080		CAP,E 10-50 SMG
C762	87-010-196-080		CHIP CAPACITOR,0.1-25
C763	87-A12-091-080		CAP,E 10-50 SMG
C764	87-010-196-080		CHIP CAPACITOR,0.1-25
C781	87-010-314-080		C-CAP,S 22P-50V
C782	87-010-314-080		C-CAP,S 22P-50V
C783	87-010-196-080		CHIP CAPACITOR,0.1-25
C784	87-010-196-080		CHIP CAPACITOR,0.1-25
C785	87-A12-091-080		CAP,E 10-50 SMG
C786	87-010-196-080		CHIP CAPACITOR,0.1-25
C787	87-A12-091-080		CAP,E 10-50 SMG
C801	87-A12-091-080		CAP,E 10-50 SMG
C802	87-010-196-080		CHIP CAPACITOR,0.1-25
C803	87-A12-091-080		CAP,E 10-50 SMG
C804	87-010-196-080		CHIP CAPACITOR,0.1-25
C821	87-010-404-080		CAP, ELECT 4.7-50V
C822	87-010-401-080		CAP, ELECT 1-50V
C823	87-010-196-080		CHIP CAPACITOR,0.1-25
C824	87-010-196-080		CHIP CAPACITOR,0.1-25
C901	87-010-382-080		CAP, ELECT 22-25V

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
C902	87-010-382-080		CAP, ELECT 22-25V
C906	87-010-322-080		C-CAP,S 100P-50 CH
C907	87-010-196-080		CHIP CAPACITOR,0.1-25
C908	87-010-374-080		CAP, ELECT 47-10V
C909	87-010-371-080		CAP, ELECT 470-6.3V
C910	87-010-371-080		CAP, ELECT 470-6.3V
C911	87-010-371-080		CAP, ELECT 470-6.3V
C951	87-010-178-080		CHIP CAP 1000P-50 K B
C952	87-010-314-080		C-CAP,S 22P-50V
C953	87-010-316-080		C-CAP,S 33P-50 CH
C954	87-010-197-080		CAP, CHIP 0.01 DM
C955	87-010-197-080		CAP, CHIP 0.01 DM
C956	87-A12-091-080		CAP,E 10-50 SMG
C957	87-010-196-080		CHIP CAPACITOR,0.1-25
C958	87-A12-091-080		CAP,E 10-50 SMG
C959	87-012-140-080		CAP 470P-50
C960	87-012-156-080		C-CAP,S 220P-50 CH
C961	87-012-156-080		C-CAP,S 220P-50 CH
CN1	87-A60-619-010		CONN,2P V 2MM JMT
CN101	87-A60-079-010		CONN,08P H 9604S-08F
CN103	87-099-751-010		CONN,16P V 9604SC
CN104	87-A60-071-010		CONN,25P H 9604S-25F
CNA102	8A-AR6-641-010		CONN ASSY,7P -POWER
FB101	87-008-372-080		FILTER, EMI BL01 RN1
FB103	87-008-372-080		FILTER, EMI BL OIRNI
FB104	87-008-372-080		FILTER, EMI BL OIRNI
FB201	87-008-372-080		FILTER, EMI BL OIRNI
FB301	87-008-372-010		FILTER, EMI BL01 RN1
FB302	87-008-372-080		FILTER, EMI BL01 RN1
FB401	87-008-372-080		FILTER, EMI BL01 RN1
FB402	87-008-372-080		FILTER, EMI BL01 RN1
FB403	87-008-372-080		FILTER, EMI BL01 RN1
FB501	87-008-372-080		FILTER, EMI BL01 RN1
FB502	87-008-372-080		FILTER, EMI BL01 RN1
FB503	87-008-372-080		FILTER, EMI BL01 RN1
FB701	87-008-372-080		FILTER, EMI BL01 RN1
FB702	87-008-372-080		FILTER, EMI BL01 RN1
FC103	88-916-161-110		FF-CABLE, 16P 1.25 100MM
J101	87-A61-575-010		JACK,PIN 6P R/W W/SW HSP-246-V
J801	87-A60-697-010		JACK,PIN 1P HSP-241V1
J901	87-A61-549-010		JACK,PIN 4P YEL W/SW (KM)
L401	87-005-274-080		COIL,68UH K LAL03
L951	87-005-847-080		COIL,2.2UH K CECS
X501	87-A70-115-010		VIB,XTAL 12.288MHZ
X951	87-A70-091-010		VIB,XTAL 4.332MHZ CSA-309
HP C.B			
C149	87-010-197-080		CAP, CHIP 0.01 DM
C411	87-010-197-080		CAP, CHIP 0.01 DM
C412	87-010-197-080		CAP, CHIP 0.01 DM
CN402	87-A60-063-010		CONN,04P V 9604S-04C
FB401	87-008-372-010		FILTER, EMI BL01 RN1
FB402	87-A50-581-080		C-COIL,S FCM2012H 252705
FB403	87-A50-581-080		C-COIL,S FCM2012H 252705
J401	87-A61-546-010		JACK,3.5 BLAK ST W/SW HST3000
LED C.B			
LED302	87-A41-046-080		LED,SLRS5B23C ORG
LED303	87-A41-046-080		LED,SLRS5B23C ORG
TUNER C.B			
C772	87-012-286-080		C-CAP,U 0.01-25 K B
C784	87-012-286-080		C-CAP,U 0.01-25 K B
C785	87-012-286-080		C-CAP,U 0.01-25 K B
C786	87-012-286-080		C-CAP,U 0.01-25 K B
C788	87-012-167-080		C-CAP,U 5P-50 CH
C789	87-016-034-080		CHIP CAP U 0.027-25F
C790	87-016-034-080		CHIP CAP U 0.027-25F
C791	87-010-831-080		C-CAP,U,0.1-16F
C792	87-012-286-080		C-CAP,U 0.01-25 K B
C793	87-A11-056-080		C-CAP,U 1-10 Z F
C795	87-012-286-080		C-CAP,U 0.01-25 K B
C798	87-012-286-080		C-CAP,U 0.01-25 K B
C799	87-010-982-040		CAP,E 33-25 GAS
C800	87-010-829-080		CAP, U 0.047-16
C801	87-A11-056-080		C-CAP,U 1-10 Z F
C802	87-010-829-080		CAP, U 0.047-16
C804	87-010-555-040		CAP,E 100-10 GAS
C807	87-A10-463-080		C-CAP,U,0.47-10 Z F
C808	87-A11-056-080		C-CAP,U 1-10 Z F
C809	87-A11-056-080		C-CAP,U 1-10 Z F
C810	87-010-831-080		C-CAP,U,0.1-16F
C814	87-012-286-080		C-CAP,U 0.01-25 K B
C815	87-A10-463-080		C-CAP,U,0.47-10 Z F
C816	87-A10-463-080		C-CAP,U,0.47-10 Z F
C821	87-A11-063-080		C-CAP,S 4.7-10 Z F
C823	87-012-274-080		CHIP CAP,U 1000P-50B
C824	87-A11-063-080		C-CAP,S 4.7-10 Z F
C825	87-010-829-080		C-CAP,U 0.047-16 Z F
C831	87-010-552-040		CAP,E 22-16 GAS
C837	87-012-286-080		CAP, U 0.01-25
C842	87-012-286-080		C-CAP,U 0.01-25 K B
C844	87-012-286-080		C-CAP,U 0.01-25 K B
C847	87-012-286-080		C-CAP,U 0.01-25 K B
C848	87-012-286-080		C-CAP,U 0.01-25 K B
C850	87-A11-056-080		C-CAP,U 1-10 Z F
C851	87-012-286-080		C-CAP,U 0.01-25 K B
C852	87-012-286-080		C-CAP,U 0.01-25 K B
C853	87-012-286-080		C-CAP,U 0.01-25 K B
C859	87-010-831-080		C-CAP,U,0.1-16F
C860	87-012-286-080		C-CAP,U 0.01-25 K B
C901	87-012-162-080		C-CAP,U 1P-50 CH
C902	87-012-165-080		CAP 3P
C903	87-012-164-080		C-CAP,U 2P-50 C CH
C904	86-ZA1-615-080		C-CAP,U 680P-25 J CH
C905	87-012-162-080		CAP, U 1P-50 CH
C906	87-012-172-080		CAPACITOR CHIP U 10P CH
C907	87-012-166-080		C-CAP,U 4P-50 CH
C908	87-012-165-080		C-CAP,U 3P-50
C909	86-ZA1-615-080		C-CAP,U 680P-25 J CH
C910	87-012-164-080		CHIP CAP,U 2P-50 CH
C911	87-012-166-080		C-CAP,U 4P-50 CH
C912	87-012-195-080		C-CAP,U 100P-50CH
C913	86-ZA1-616-080		C-CAP,U 0.01-50 K B (MUR)
C914	86-ZA1-616-080		C-CAP,U 0.01-50 K B (MUR)
C915	86-ZA1-616-080		C-CAP,U 0.01-50 K B (MUR)
C916	86-ZA1-616-080		C-CAP,U 0.01-50 K B (MUR)
C917	87-012-178-080		C-CAP,U 18P-50 CH
C918	87-012-172-080		CAPACITOR CHIP U 10P CH
C919	87-012-184-080		C-CAP,U 33P-50 CH
C920	87-012-184-080		C-CAP,U 33P-50 CH
C921	87-012-180-080		C-CAP,U 22P-50 CH
C922	87-012-174-080		CAP CHIP CERA SS 12P CHJ
C923	86-ZA1-616-080		C-CAP,U 0.01-50 K B (MUR)
C924	87-012-176-080		CAP CHIP 2P-50
C925	87-012-164-080		C-CAP,U 2P-50 C CH
C926	86-ZA1-616-080		C-CAP,U 0.01-50 K B (MUR)
C927	87-012-195-080		C-CAP,U 100P-50CH
C961	87-012-170-080		C-CAP,U 8P-50 D CH
C963	87-010-831-080		C-CAP,U,0.1-16F
C971	87-010-381-080		CAP, ELECT 330-16V
C972	87-A11-063-080		C-CAP,S 4.7-10 Z F
C973	87-012-286-080		C-CAP,U 0.01-25 K B
C974	87-012-286-080		C-CAP,U 0.01-25 K B
C976	87-010-831-080		C-CAP,U,0.1-16F
C979	87-012-195-080		C-CAP,U 100P-50CH
C981	87-010-553-040		CAP,E 47-16 GAS

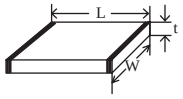
REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
C982	87-010-831-080		C-CAP,U,0.1-16F
C983	87-A11-132-080		CAP,TC U 0.01-50 K B
C984	87-012-286-080		C-CAP,U 0.01-25 K B
C985	87-012-195-080		C-CAP,U 100P-50CH
C987	87-012-286-080		C-CAP,U 0.01-25 K B
C990	87-012-195-080		C-CAP,U 100P-50CH
C991	87-012-176-080		C-CAP,U 15P-50
C992	87-012-176-080		C-CAP,U 15P-50
C993	87-012-274-080		CHIP CAP,U 1000P-50B
C994	87-012-195-080		C-CAP,U 100P-50CH
C995	87-012-274-080		CHIP CAP,U 1000P-50B
C996	87-012-195-080		C-CAP,U 100P-50CH
C997	87-010-831-080		C-CAP,U,0.1-16F
C998	87-010-553-040		CAP,E 47-16 GAS
C999	87-012-286-080		C-CAP,U 0.01-25 K B
CF831	87-008-423-010		CERAMIC FILTER, SFE10.7 MS3G-A
CF832	82-785-747-010		CF MS2 GHY R
CN992	87-099-018-010		CONN,16P V BLK 6216
D901	87-A41-048-040		C-VARI-CAP,HVM16-03 TL
D902	87-A41-048-040		C-VARI-CAP,HVM16-03 TL
D903	87-A41-048-040		C-VARI-CAP,HVM16-03 TL
J832	87-A61-534-010		TERMINAL,ANT PAL AJ-2021
J940	87-A60-633-010		CONN,2P H 2.5MM JMT
L801	87-A50-694-010		COIL,FM-DET 2 (COILS)
L802	87-A91-551-010		FLTR,PCFJZH-450 L(TOK)
L811	87-005-847-080		COIL,2.2UH CECS
L832	87-005-847-080		COIL,2.2UH CECS
L901	86-ZA1-612-010		COIL,FM ANT/RF-1-Z
L902	86-ZA1-613-010		COIL,FM ANT/RF-2-Z
L903	87-003-098-080		COIL,2.2UH K LAL02
L904	86-ZA1-612-010		COIL,FM ANT/RF-1-Z
L905	86-ZA1-613-010		COIL,FM ANT/RF-2-Z
L906	87-005-847-080		COIL,2.2UH CECS
L907	86-ZA1-614-010		COIL,FM OSC-Z
L908	88-ZA1-624-010		COIL,FM IFT 7-6.2 (COILS)
L951	8A-NF8-667-010		COIL,AM PACK 4(TOK)
R790	87-012-286-080		CAP, U 0.01-25
X991	87-A70-061-010		VIB,XTAL 4.500MHZ CSA-309

○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

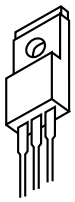


チップ抵抗
Chip resistor

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 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

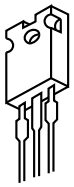
CSC2001
CSC4115
2SC1815
KTA1266
KTC3198



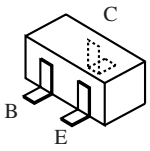
2SB1370

2SA1015
2SC2001

CSD1489

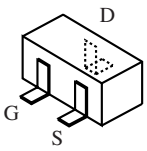


2SA1357

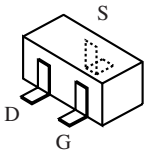


2SA1235
2SC3052
2SC2714
CMBT5401
CSD1306

DTC123JK
KRA107S
RT1N144C
RT1P141C

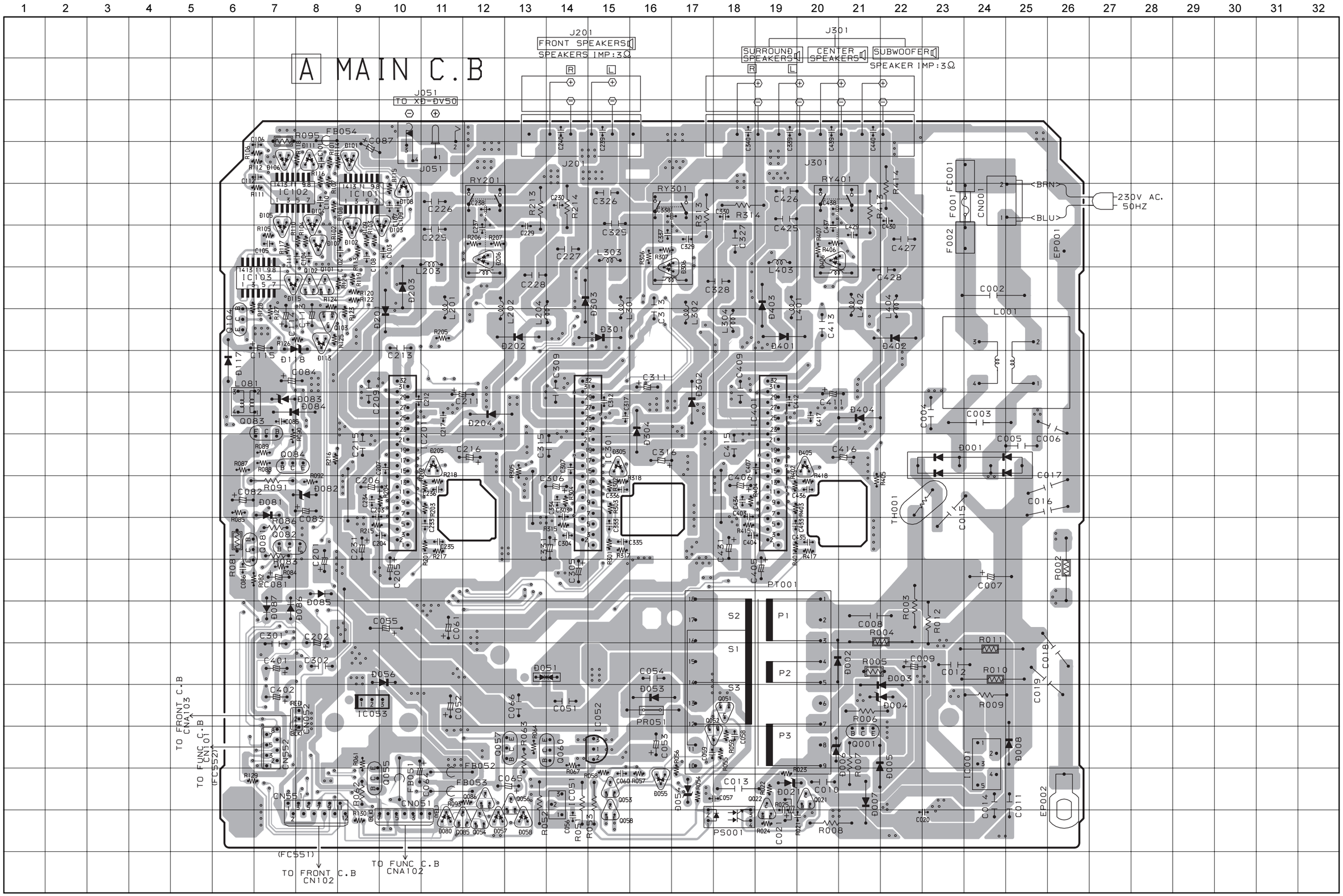


2SK2158



2SK360

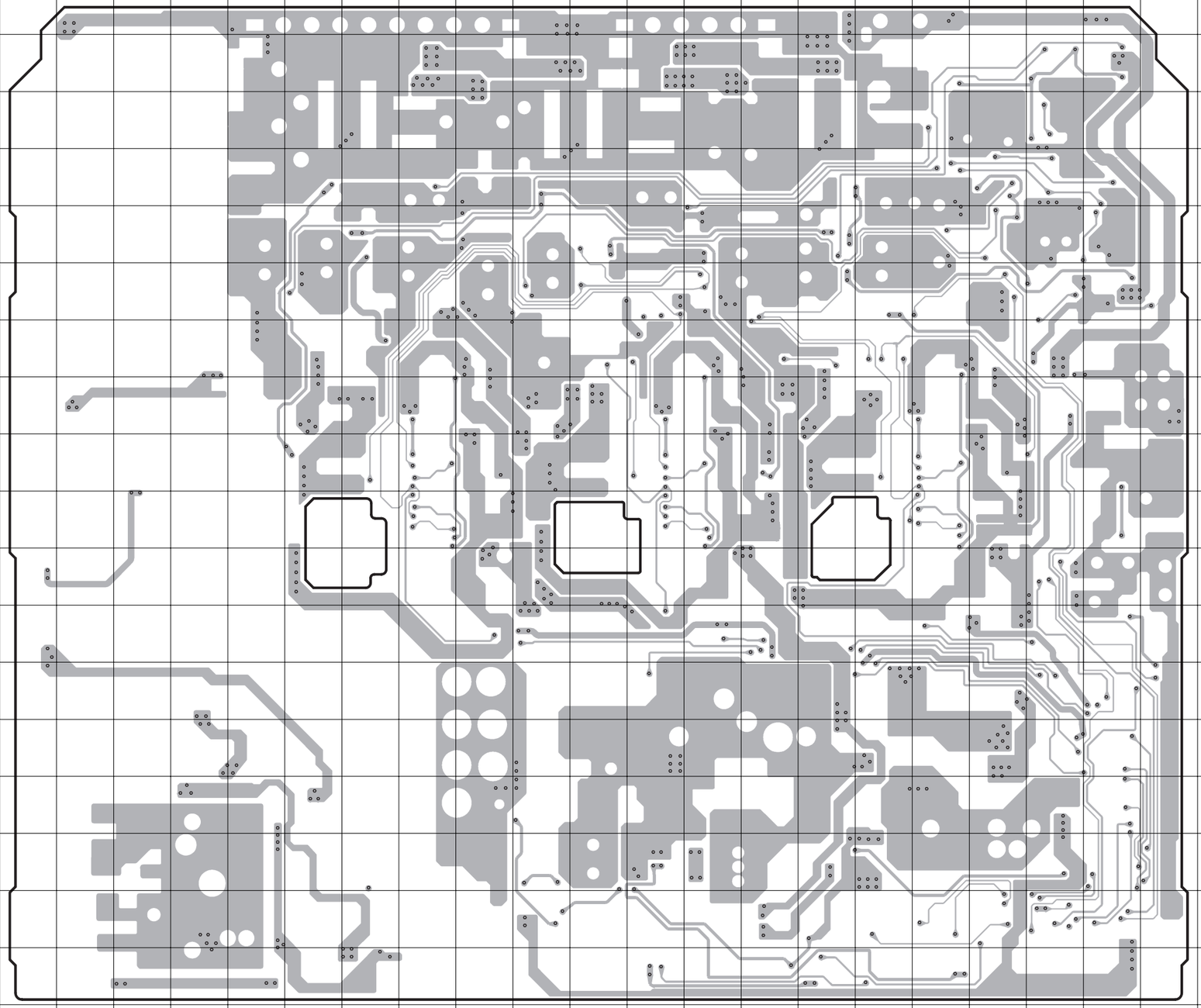
WIRING – 1 (MAIN) <1 / 2>



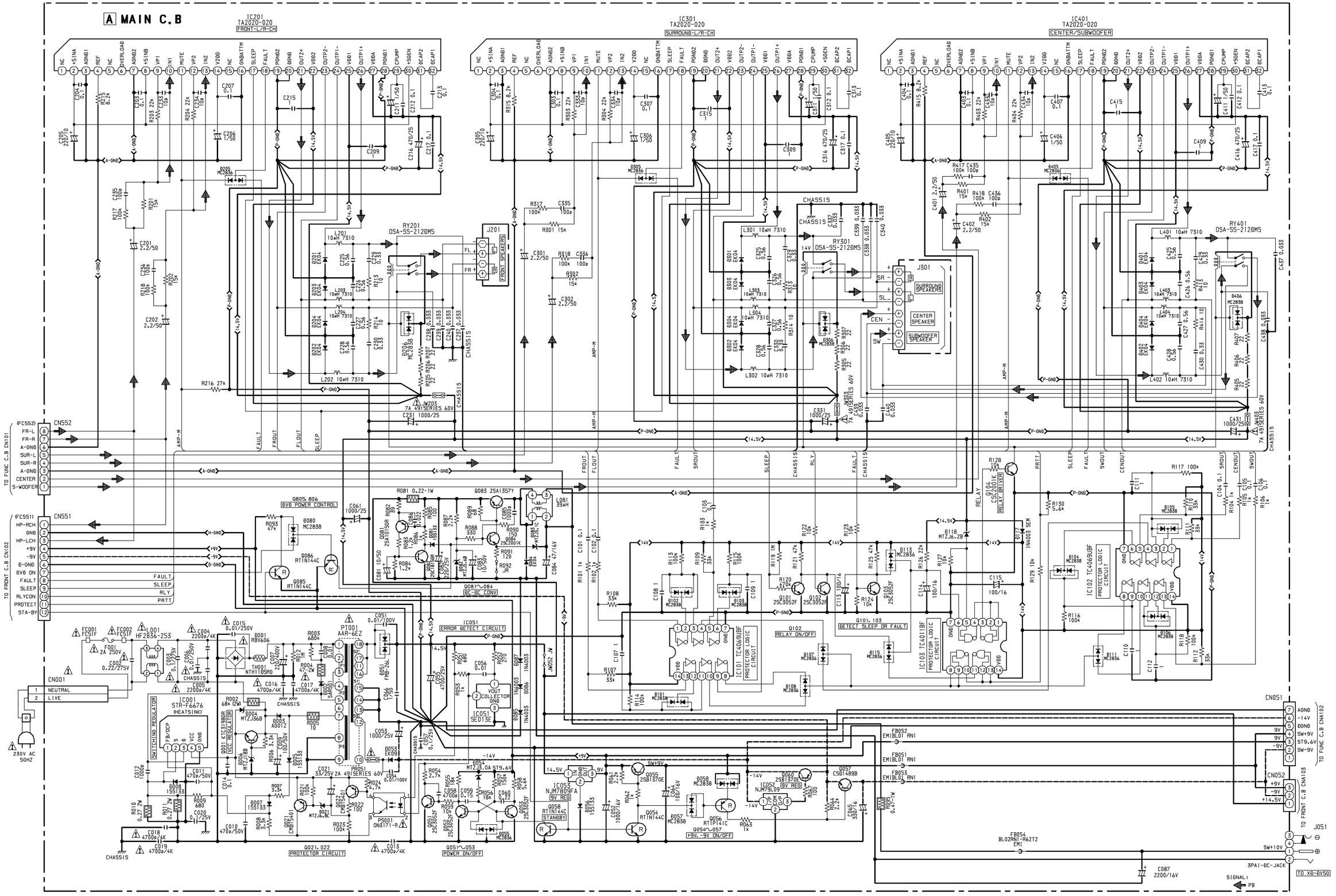
32 31 30 29 28 27 26 25 24 23 22 21 20 19 18 17 16 15 14 13 12 11 10 9 8 7 6 5 4 3 2 1

A B C D E F G H I J K L M N O P Q R S T U

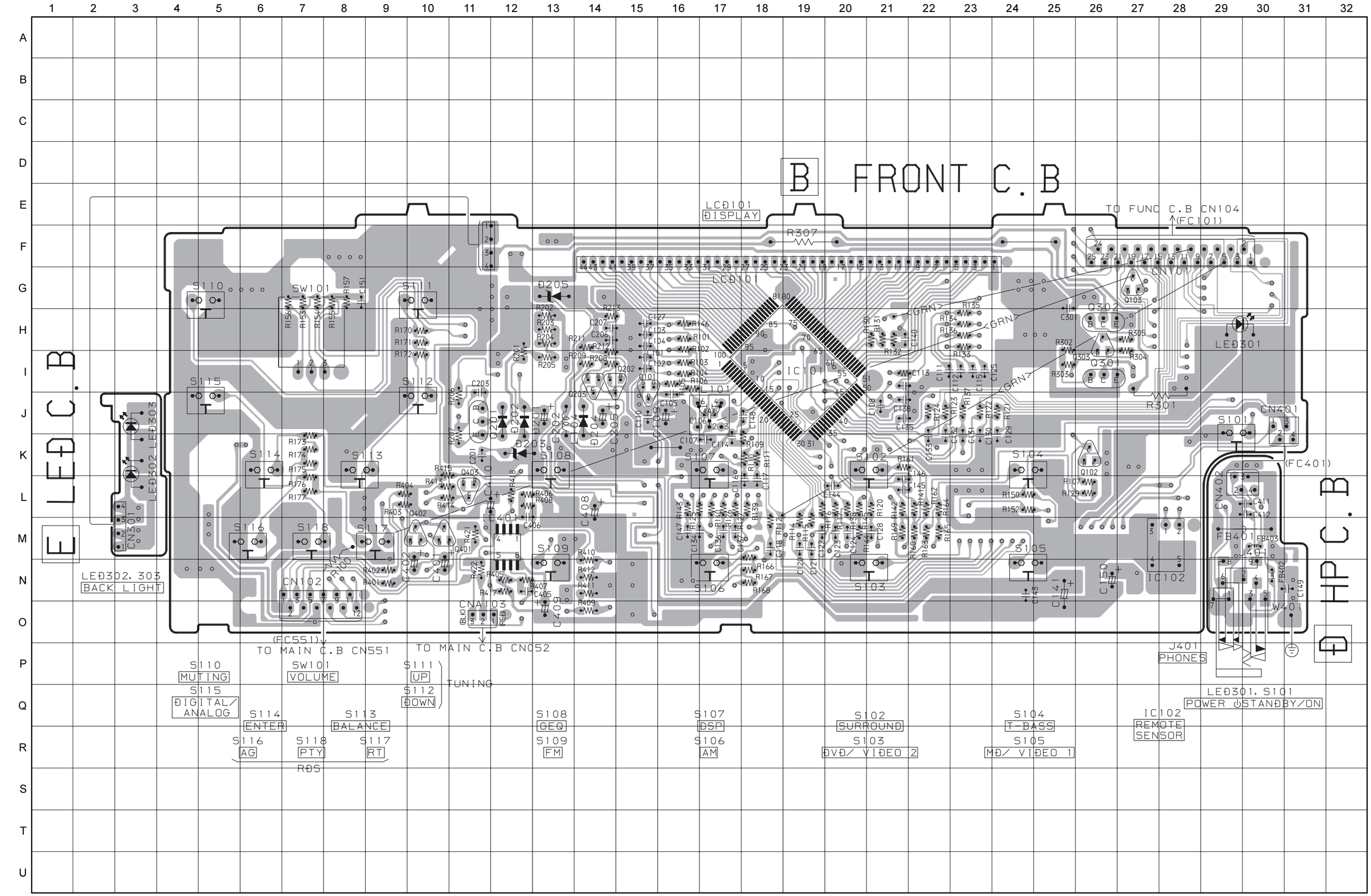
A MAIN C.B



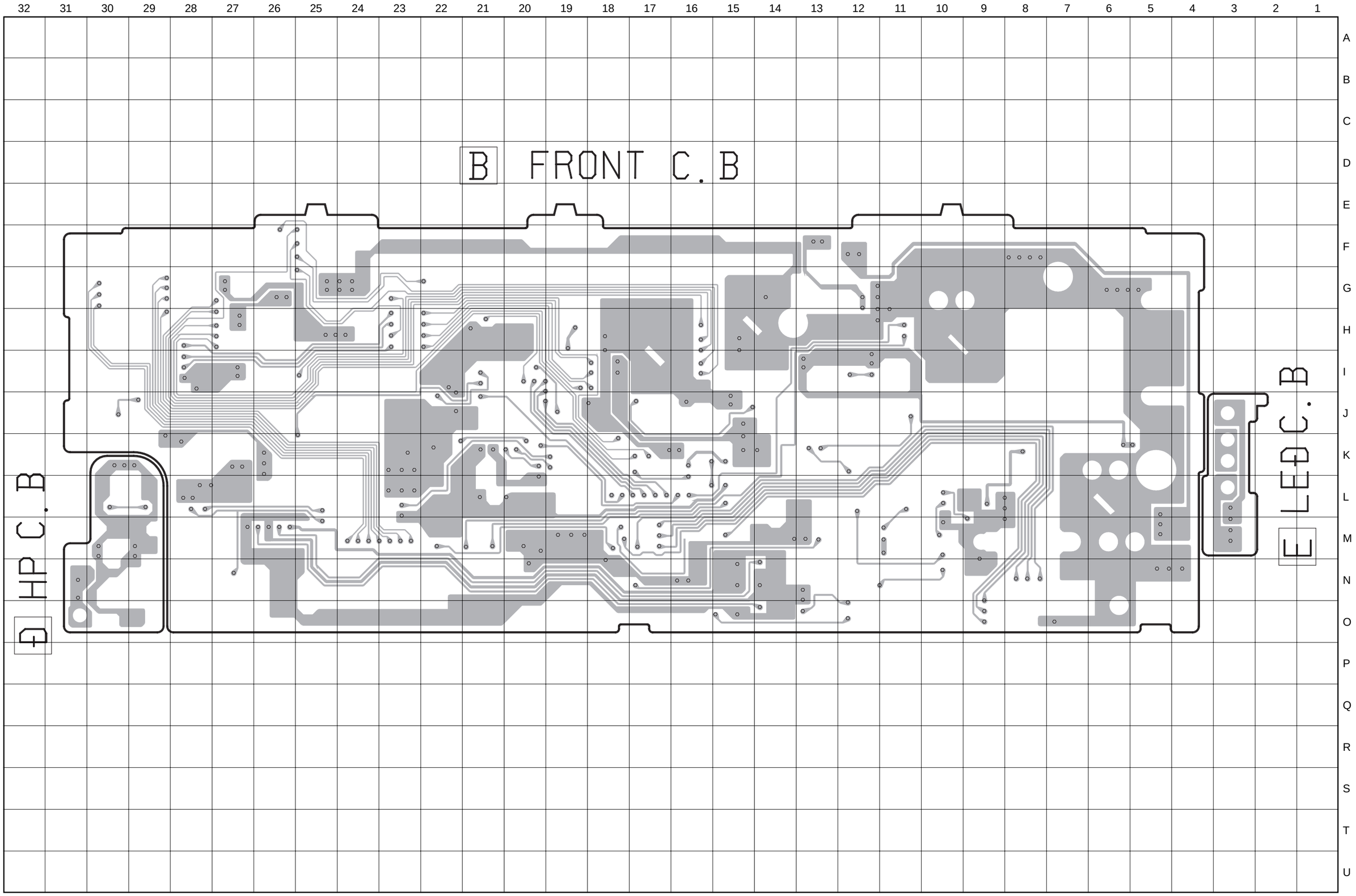
SCHEMATIC DIAGRAM – 1 (MAIN)

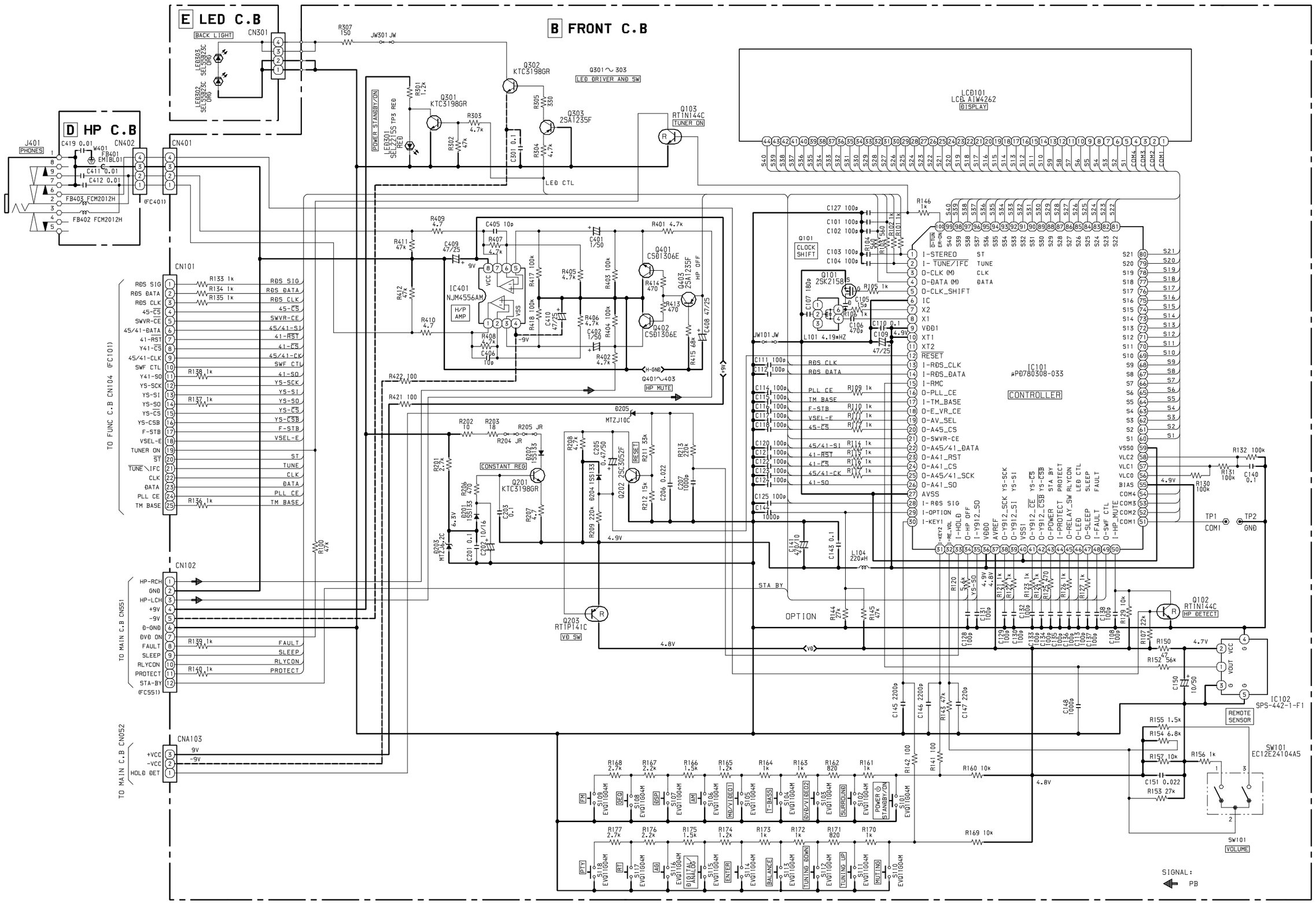


WIRING – 2 (FRONT / HP / LED) <1 / 2>

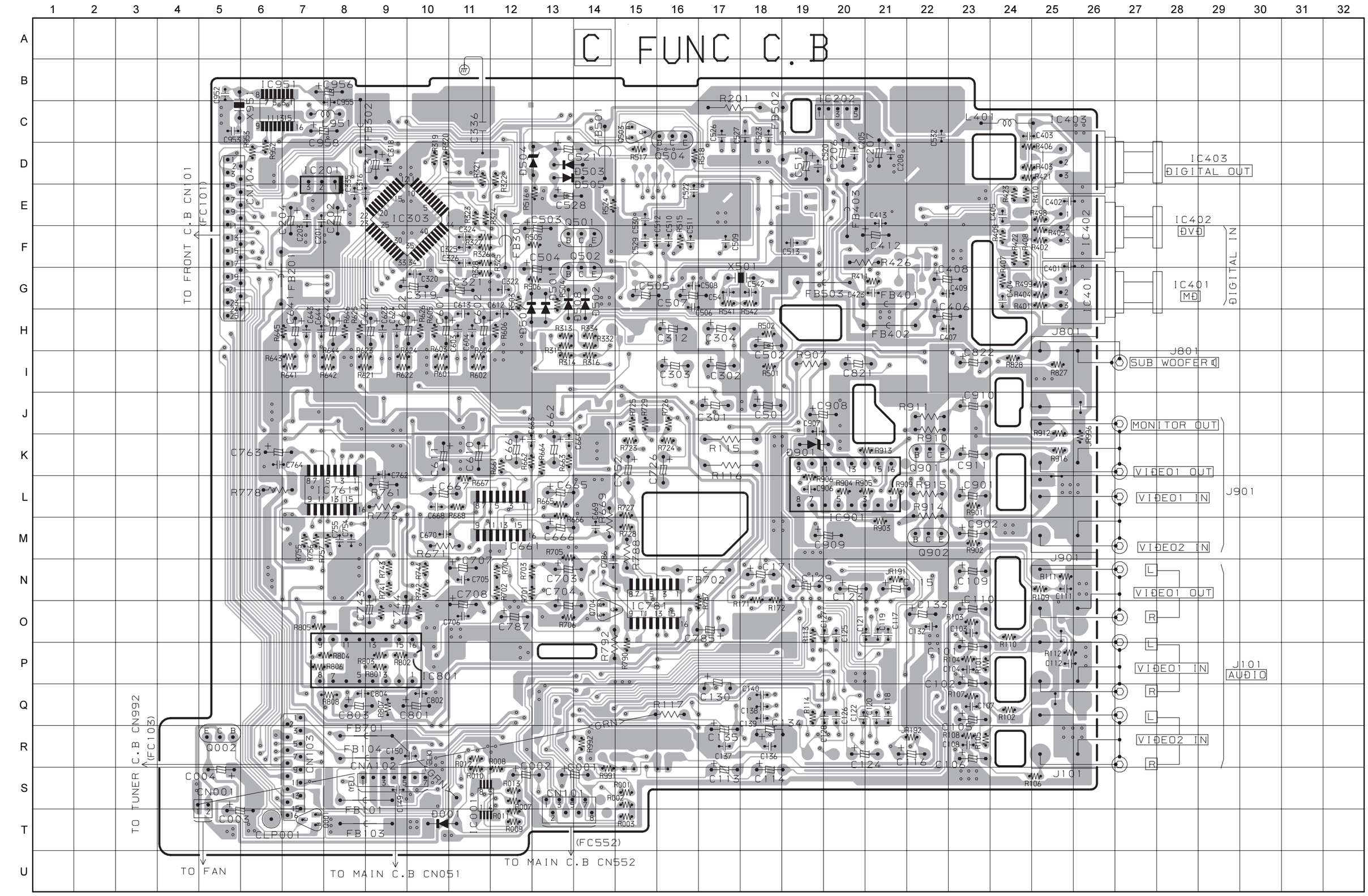


WIRING – 2 (FRONT / HP / LED) <2 / 2>



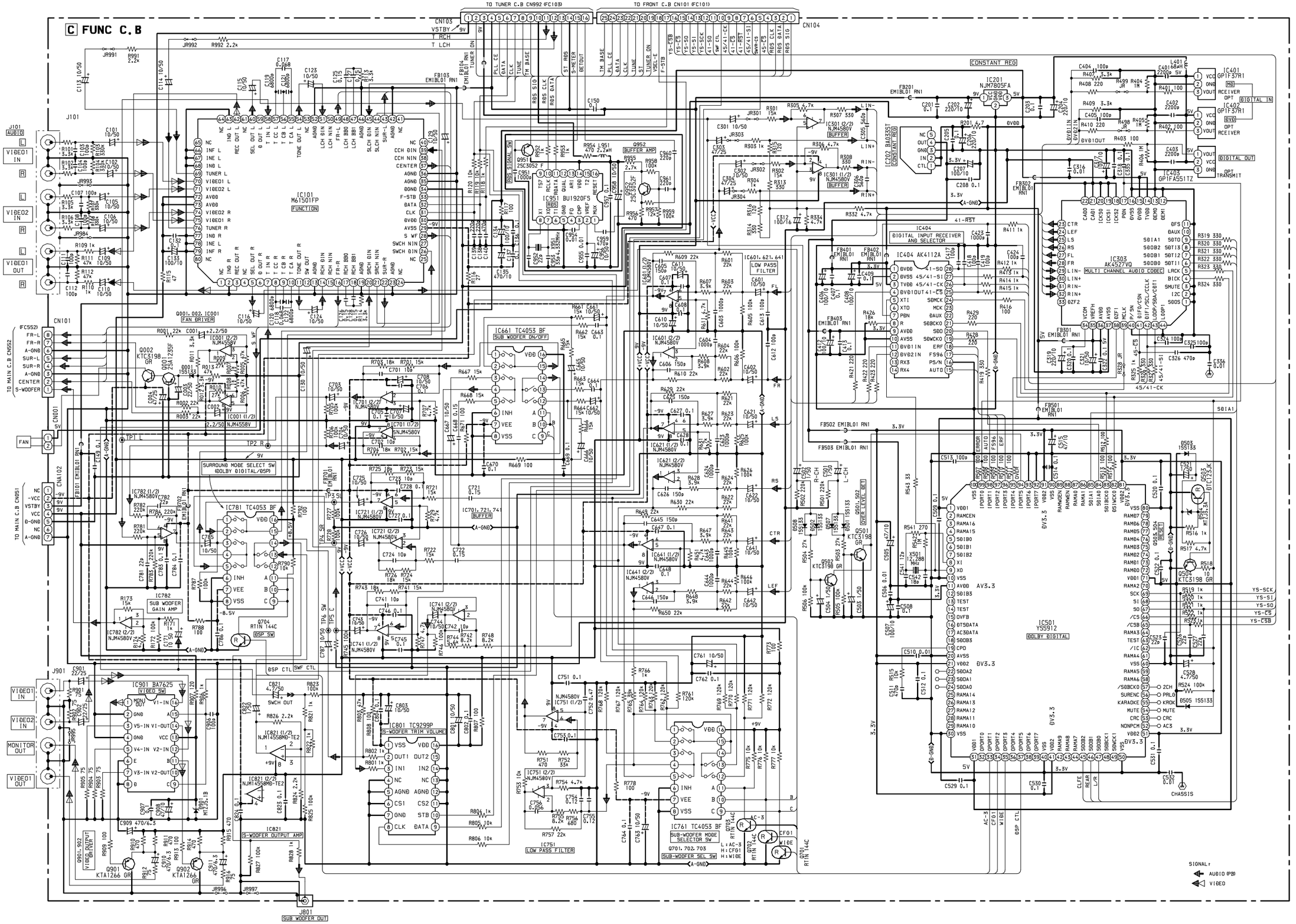

E LED C.B
BACK LIGHT
CN301
R307 150
JW301 JW
LED303 SEL5823C ORG
LED302 SEL5823C ORG
B FRONT C.B
Q302 KTC3198GR
Q301 ~ 303
LED DRIVER AND SW
POWER STANDBY/ON
LED301 SEL2215S TP5 RED
Q301 KTC3198GR
R301 1.2k
R303 4.7k
R302 47k
R305 330
Q303 2SA1235F
R304 4.7k
C301 0.1
Q103 RTIN144C
TUNER ON
LED CTL
LCD101 LCD AIW4262
DISPLAY
D HP C.B
J401 PHONES
C419 0.01
W401
FB401 EMIBL01
CN402
CN401
C411 0.01
C412 0.01
FB403 FCM2012H
FB402 FCM2012H
(FC401)
CN101
RDS SIG
RDS DATA
RDS CLK
45-CS
SWVR-CE
45/41-DATA
41-RST
Y41-CS
45/41-CLK
SWF CTL
Y41-SO
YS-SCK
YS-SI
YS-SO
YS-CS
YS-CSB
F-STB
VSEL-E
TUNER ON
ST
TUNE IFC
CLK
DATA
PLL CE
TM BASE
R133 1k
R134 1k
R135 1k
R138 1k
R137 1k
R136 1k
R100 47k
TO FUNC C.B CN104 (FC101)
CN102
HP-RCH
GND
HP-LCH
+9V
-9V
Ð-GND
ÐVÐ ON
FAULT
SLEEP
RLYCON
PROTECT
STA-BY
(FC551)
R139 1k
R140 1k
TO MAIN C.B CN551
CNA103
+VCC
-VCC
HOLD DET
9V
-9V
TO MAIN C.B CN052
R409 4.7
C405 10p
R411 47k
C409 47/25
R407 4.7k
C401 1/50
R401 4.7k
Q401 CSD1306E
IC401 NJM4556AM
H/P AMP
VCC
VSS
R417 100k
R405 4.7k
R403 100k
R414 470
Q403 2SA1235F
HP OFF
R412 47k
R410 4.7
R418 100k
C410 47/25
R406 4.7k
R404 100k
C402 1/50
R413 470
Q402 CSD1306E
R408 4.7k
C406 10p
R402 4.7k
C408 47/25
R415 68k
H-GND
Q401 ~ 403
HP MUTE
R422 100
R421 100
D205 MTZJ10C
R202 10
R203 18
R205 JR
R204 JR
R208 4.7k
C205 0.47/50
RESET
R211 33k
R213 220k
D202 1SS133
CONSTANT REG
Q201 KTC3198GR
R201 2.7k
R206 470
D201 1SS133
C203 0.1
R207 4.7k
D203 MTZJ6.2C
C201 0.1
C202 10/16
D204 1SS133
R209 220k
Q202 2SC3052F
R212 15k
C206 0.022
C207 1000p
4.9V
6.5V
Q203 RTIP141C
VÐ SW
4.8V
VÐ
STA BY
OPTION
R144 27k
R145 47k
C141 470/10
C143 0.1
L104 220nH
C127 100p
C101 100p
C102 100p
C103 100p
C104 100p
R146 1k
R102 1k
R101 1k
R104 560
R103 560
Q101 CLOCK SHIFT
Q101 2SK2158-15
C107 180p
C105 15p
R106 1k
C106 470p
R105 1k
C110 0.1
C109 4.9V 47/25
L101 4.19mHZ
JW101 JW
I-STEREO
I- TUNE/IFC
O-CLK (M)
O-DATA (M)
O-CLK_SHIFT
IC
X2
X1
VÐÐ1
XT1
XT2
RESET
I-RDS_CLK
I-RDS_DATA
I-RMC
O-PLL_CE
I-TM_BASE
O-E_VR_CE
O-AV_SEL
O-A45_CS
O-SWVR-CE
O-A45/41_DATA
O-A41_RST
O-A41_CS
O-A45/41_SCK
O-A41_SO
AVSS
I- RDS SIG
I-OPTION
I-KEY1
I-KEY2
I-RE.VOL
O-HP OFF
I-Y912_SO
VDDO
AVREF
O-Y912_SCK
O-Y912_SI
VSS1
O-Y912_CE
O-Y912_CSB
O-POWER
STA BY
I-PROTECT
PROTECT
O-RELAY_SW
RLYCON
O-LED
LED CTL
O-SLEEP
SLEEP
I-FAULT
FAULT
O-SWF CTL
I-HP_MUTE
MUTE
ST
TUNE
CLK
DATA
PLL CE
TM BASE
IC101 µPD780308-033
CONTROLLER
R142 100
R141 100
R160 10k
R169 10k
R168 2.7k
R167 2.2k
R166 1.5k
R165 1.2k
R164 1k
R163 1k
R162 820
R161 1k
R177 2.7k
R176 2.2k
R175 1.5k
R174 1.2k
R173 1k
R172 1k
R171 820
R170 1k
S108 EVQ11604M
S107 EVQ11604M
S106 EVQ11604M
S105 EVQ11604M
S104 EVQ11604M
S103 EVQ11604M
S102 EVQ11604M
S101 EVQ11604M
S118 EVQ11604M
S117 EVQ11604M
S116 EVQ11604M
S115 EVQ11604M
S114 EVQ11604M
S113 EVQ11604M
S112 EVQ11604M
S111 EVQ11604M
S110 EVQ11604M
FM
GEQ
BSP
AM
HBÐ/VIBEQ1
T-BASS
ÐVÐ/VIBEQ2
SURROUND
POWER ⏻ STANDBY/ON
PTY
AT
AB
DIGITAL TUNING
ENTER
BALANCE
TUNING DOWN
TUNING UP
MUTING
4.8V
R121 1k
R122 1k
R123 1k
R124 1k
R125 470
R126 1k
R127 1k
R120 5.6k
YS-SO
4.9V
4.8V
C131 100p
C132 100p
C133 100p
C134 100p
C135 100p
C136 100p
C137 100p
C138 100p
C108 100p
R129 10k
R107 22k
Q102 RTIN144C
HP DETECT
R150 47
R152 56k
4.7V
C150 10/50
VCC
VOUT
G
C145 2200p
C146 2200p
R143 47k
C147 220p
C148 1000p
IC102 SPS-442-1-F1
REMOTE SENSOR
R155 1.5k
R154 6.8k
R157 10k
R156 1k
C151 0.022
R153 27k
SW101 EC12E24104A5
SW101 VOLUME
R132 100k
R131 100k
C140 0.1
R130 100k
TP1 COM1
TP2 GNÐ
SIGNAL:
PB

WIRING – 3 (FUNC) <1 / 2>



C FUNC C. B

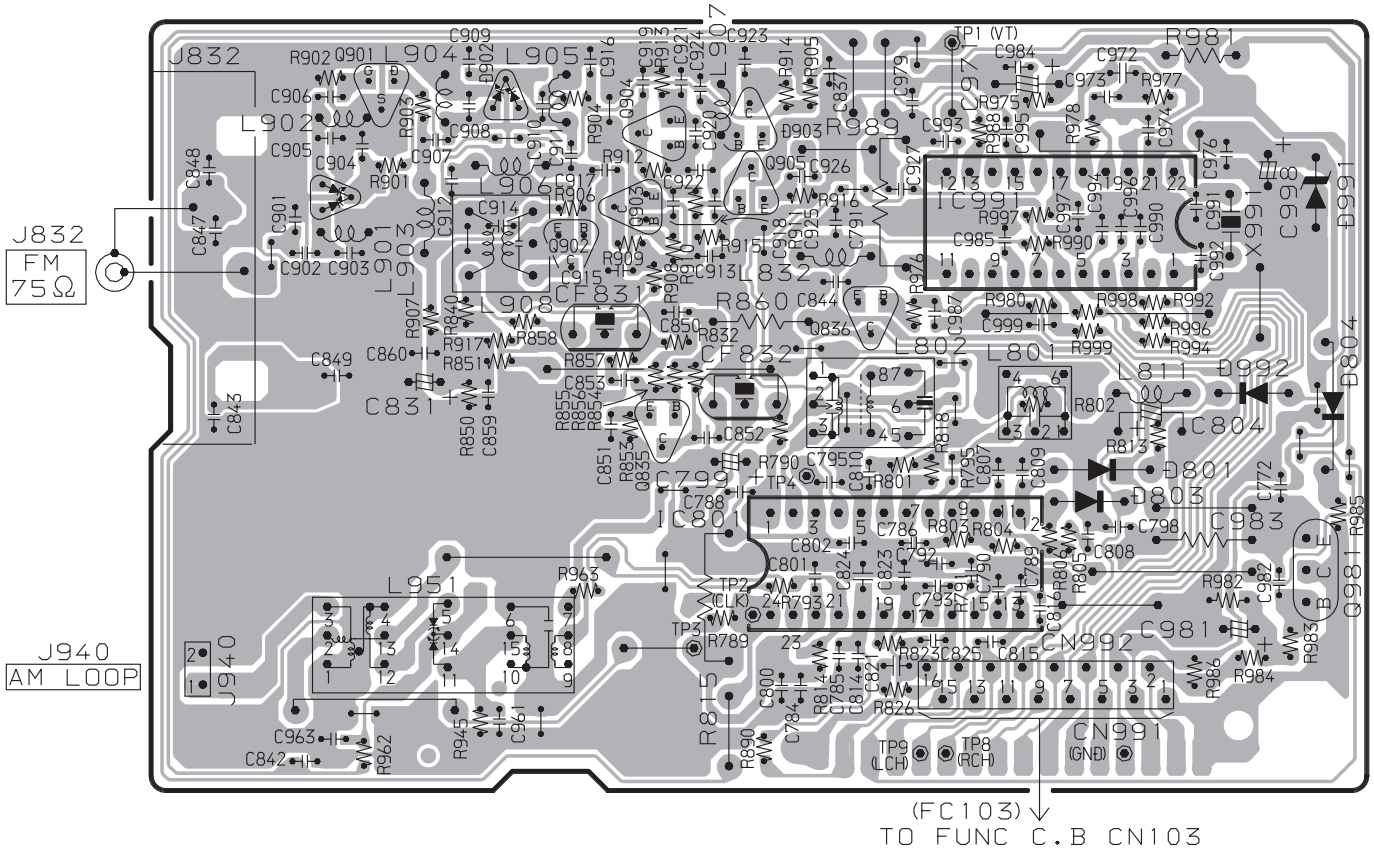
SCHEMATIC DIAGRAM – 3 (FUNC)

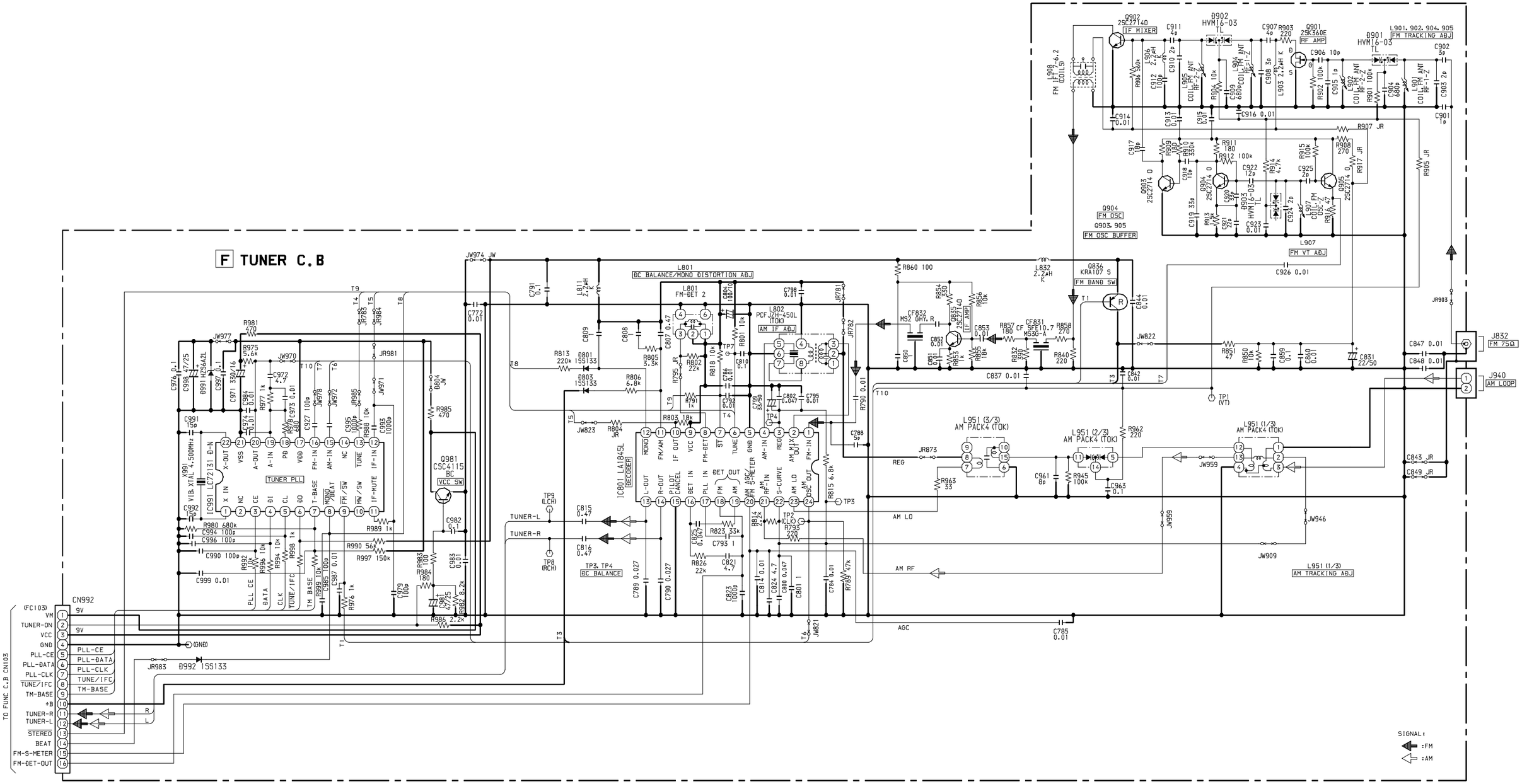


15 14 13 12 11 10 9 8 7 6 5 4 3 2 1

A B C D E F G H I J K L M N O P Q R S T U

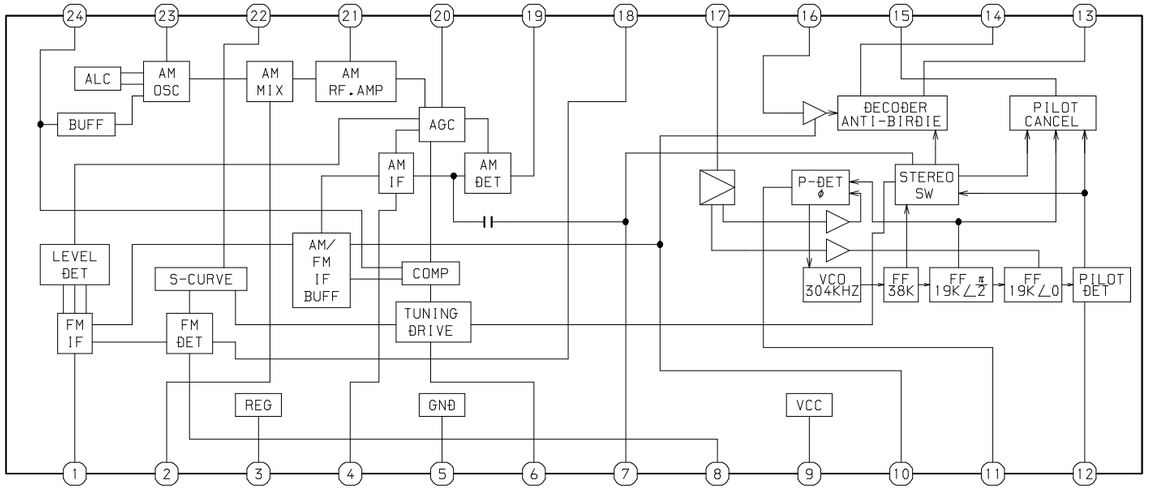
F TUNER C.B



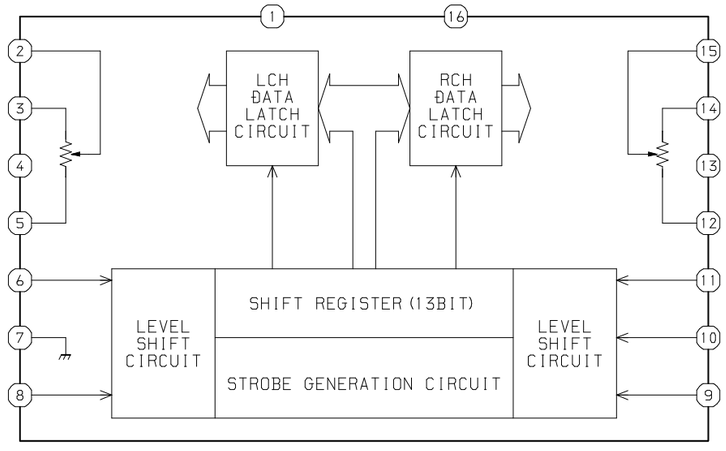

F TUNER C.B
Q902 2SC2714O IF MIXER
Q902 HVM16-03 TL
Q901 2SK360E RF AMP
L901, 902, 904, 905 FM TRACKING ADJ
Q904 FM OSC
Q903, 905 FM OSC BUFFER
L907 FM VT ADJ
L801 DC BALANCE/MONO DISTORTION ADJ
L801 FM-DET 2
L802 PCFJ21-450L (TOK) AM IF ADJ
Q836 KRA107 S FM BAND SW
IC801 LA1845L DECODER
IC991 LC72131 D-N
TUNER PLL
Q981 C5C4115 BC VCC SW
X991 (TB, XTAL 4.500MHz)
L951 (3/3) AM PACK4 (TOK)
L951 (2/3) AM PACK4 (TOK)
L951 (1/3) AM PACK4 (TOK)
L951 (1/3) AM TRACKING ADJ
TP1 (VT)
TP2 (CLK)
TP3, TP4 DC BALANCE
TP3
TP4
TP5
TP8 (RCH)
TP9 (LCH)
J832 FM 75Ω
J940 AM LOOP
CN992
TO FUNC C.B CN103
(FC103)
VM
TUNER-ON
VCC
GND
PLL-CE
PLL-DATA
PLL-CLK
TUNE/IFC
TM-BASE
+B
TUNER-R
TUNER-L
STEREO
BEAT
FM-S-METER
FM-DET-OUT
D992 1SS133
AM LO
AM RF
AGC
SIGNAL:
:FM
:AM

IC BLOCK DIAGRAM

IC, LA1845L



IC, TC9299P



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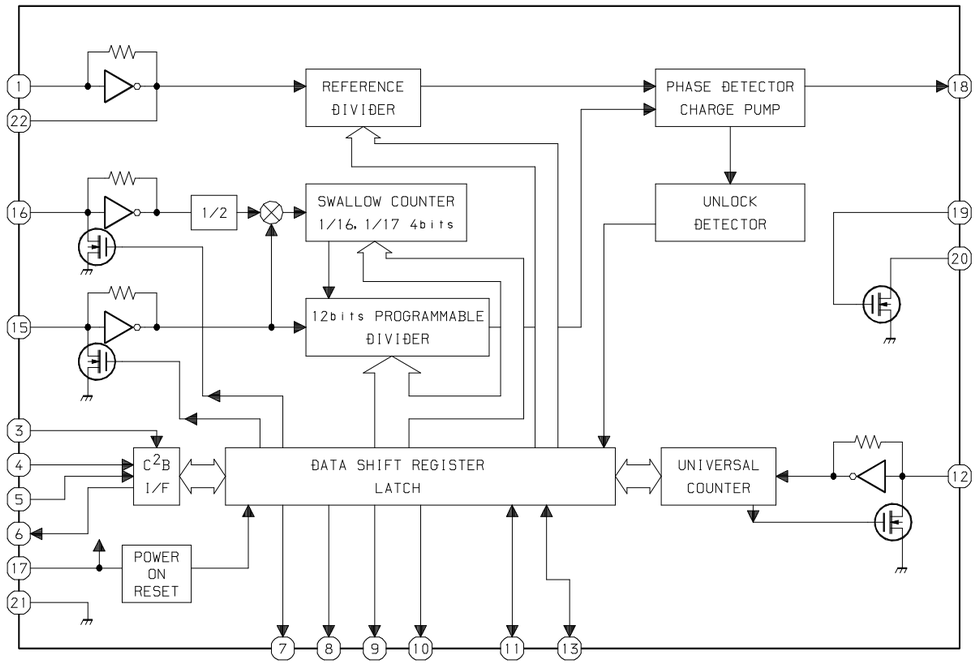
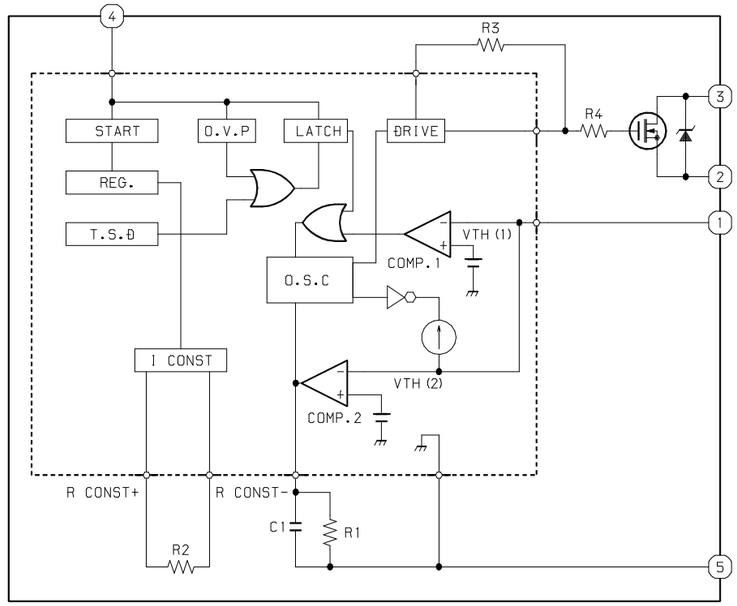
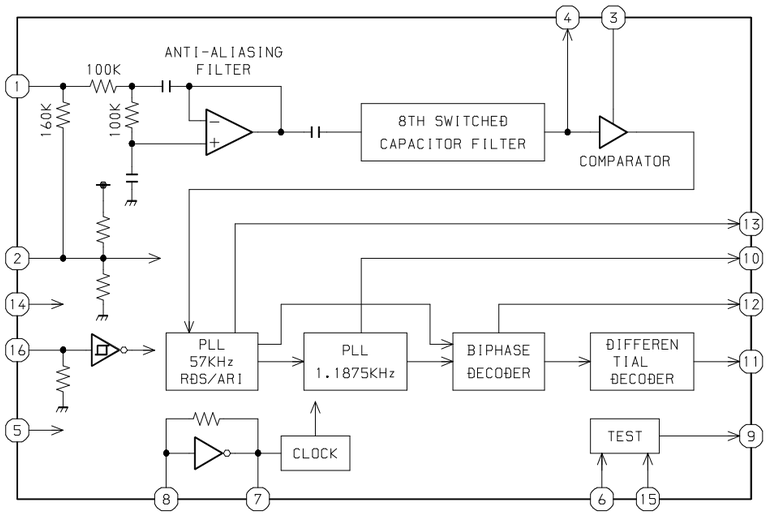


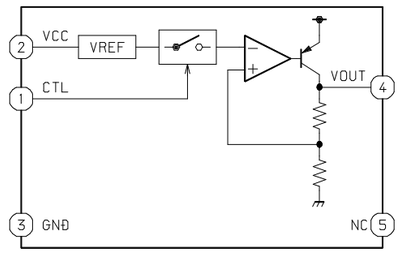
IC, STR-F6676



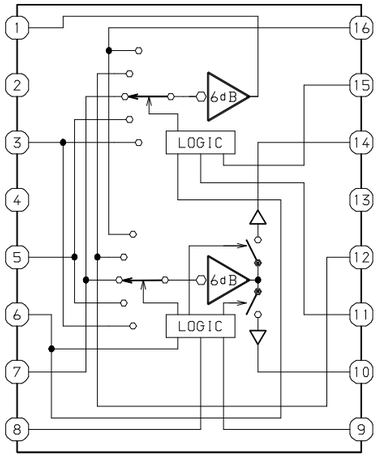
IC, BU1920FS



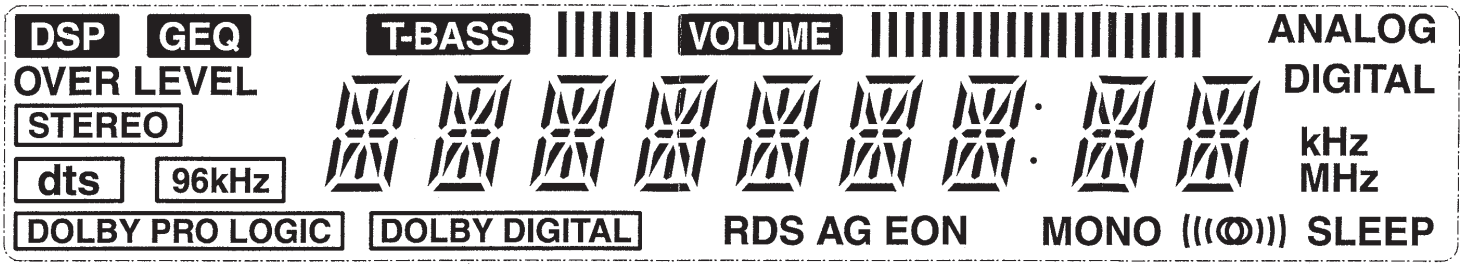
IC, BA033ST



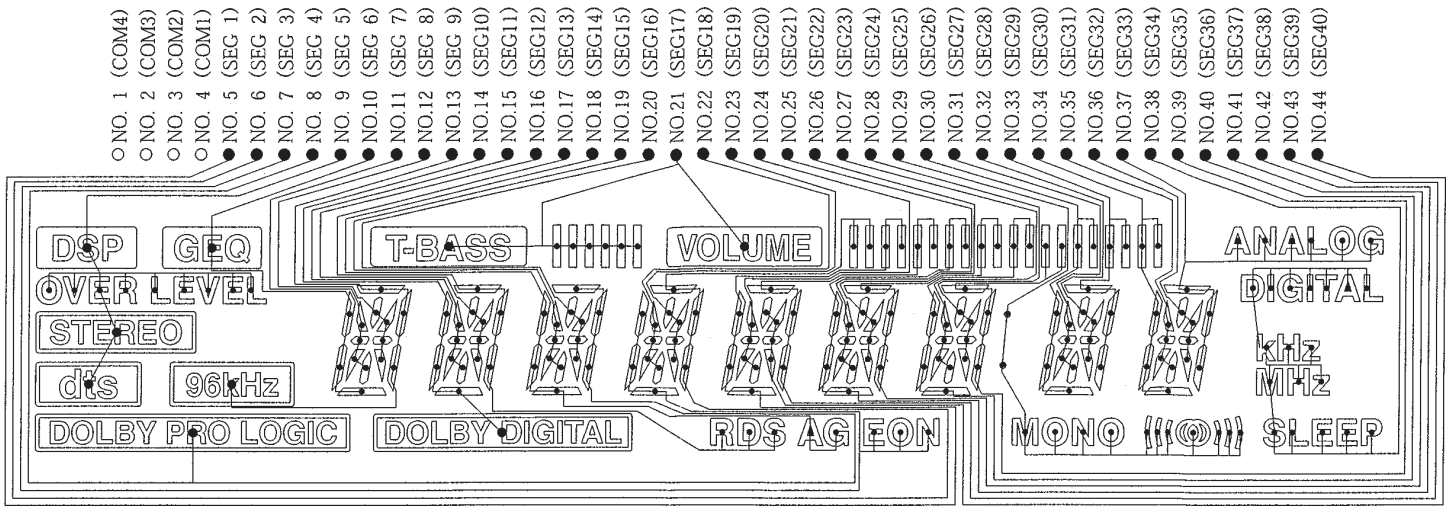
IC, BA7625



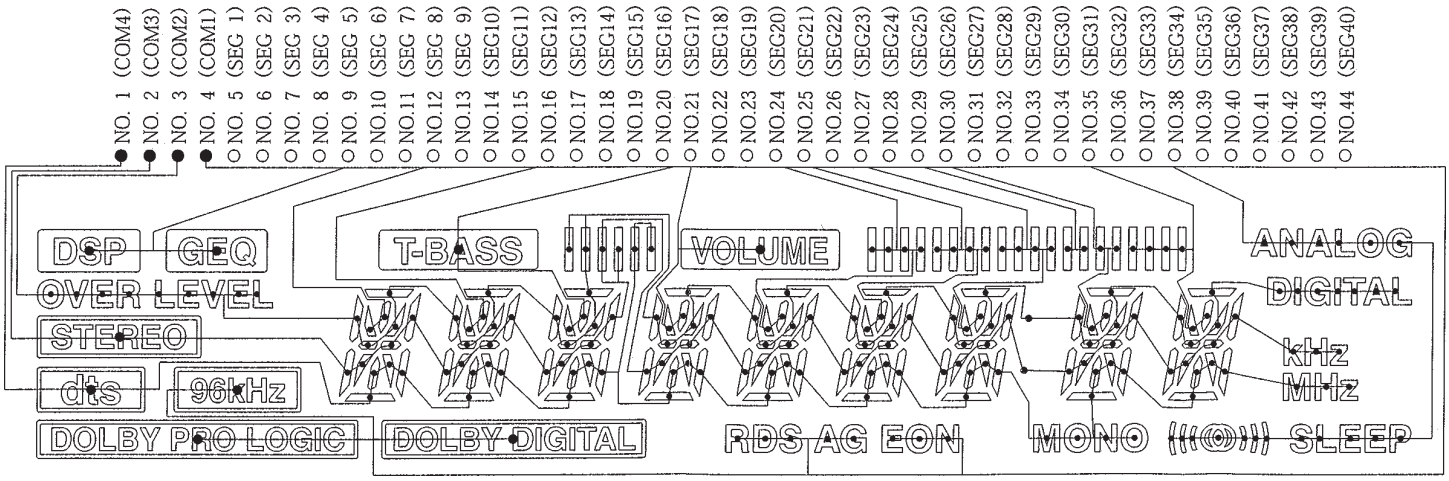
LCD DISPLAY



SEGMENT WIRING



COMMON WIRING



IC DESCRIPTION

IC, UPD780308-033

Pin No.	Pin Name	I/O	Description
1	I-STEREO	I	Tuner stereo detection input. "L": stereo.
2	I-$\overline{\text{TUNE/IFC}}$	I	Tuner TUNE/IFC detection input.
3	O-CLK(M)	O	Function IC, PLL, SW VOL clock output.
4	O-DATA(M)	O	Function IC, PLL, SW VOL data output.
5	O-CLK-SHIFT	O	Micro computer shift clock output.
6	IC	—	IC (Connected to GND).
7	X2	—	4.19MHz oscillator circuit.
8	X1	—	4.19MHz oscillator circuit.
9	VDD1	—	Power supply (+5.0V).
10	XT1	—	32.768kHz (sub clock) circuit. (Connected to VDD)
11	XT2	—	32.768kHz (sub clock) circuit. (Not used)
12	$\overline{\text{RESET}}$	I	Reset input.
13	I-RDS-CLK	I	RDS clock input.
14	I-RDS-DATA	I	RDS data input.
15	I-RMC	I	Remote control signal input. (Active "L")
16	O-PLL-CE	O	Tuner PLL IC chip enable output.
17	I-TM-BASE	I	Reference clock input for timer watch.
18	O-E-VR-CE	O	Function IC chip enable output.
19	O-AV-SEL	O	Video signal select output.
20	O-A45-CS	O	AK4527 chip enable output.
21	O-SWVR-CE	O	TC9299 chip enable output.
22	O-A45/41-DATA	O	AK4527 data output.
23	O-A41-RST	O	AK4112 reset output.
24	O-A41-CS	O	AK4112 chip select output.
25	O-A45/41-SCK	O	AK4112 clock output / AK4527 clock output.
26	O-A41-SO	O	AK4112 serial data output.
27	AVSS	—	GND.
28	I-RDS SIG	I	RDS signal input.
29	I-OPTION	I	Option input.
30	I-KEY1	I	Key input 1.
31	I-KEY2	I	Key input 2.
32	I-RE-VOL	I	Main volume input (rotary encoder) AD input.
33	I-HOLD	I	Error detect.
34	O-HP OFF	O	Mute output terminal when inserting HP.
35	I-Y912-SO	I	YSS912 data input.
36	VDD0	—	Power supply (+5.0V).
37	AVREF	—	Power supply for analog circuit (+5.0V).
38	O-Y912-SCK	O	YSS912 clock output.
39	O-Y912-SI	O	YSS912 data output.
40	VSS1	—	GND.
41	O-Y912-$\overline{\text{CE}}$	O	YSS912 chip select output.
42	O-Y912-$\overline{\text{CSB}}$	O	YSS912 SUBDSP chip select output.

Pin No.	Pin Name	I/O	Description
43	O-POWER	O	System power on (Active "H").
44	I-PROTECT	I	Protector input (Active "H").
45	O-RELAY-SW	O	Relay output.
46	O-LED	I	LED input (Active "L").
47	O-SLEEP	O	Sleep output (Active "L").
48	I-FAULT	I	Fault input (Active "H").
49	O-SWF CTL	O	Subwoofer control output.
50	I-HP-MUTE	I	Detect headphone plug insertion.
51 ~ 54	COM4 ~ COM1	O	LCD common output (COM4 ~ COM1).
55	BIAS	—	Power supply for LCD drive. (Connected to VDD)
56	VLC0	—	LCD voltage for LCD drive (VLC0).
57	VLC1	—	LCD voltage for LCD drive (VLC1).
58	VLC2	—	LCD voltage for LCD drive (VLC2).
59	VSS0	—	GND.
60 ~ 99	S1 ~ S40	O	LCD segment output (S1 ~ S40).
100	O-$\overline{\text{TUNER-ON}}$	O	Tuner on output.

IC, YSS912

Pin No.	Pin Name	I/O	Description
1	VDD1	-	+5V power supply for (I/Os).
2	RAMCEN	O	External SRAM interface / CE. (Not used)
3	RAMA16	O	External SRAM interface address 16. (Not used)
4	RAMA15	O	External SRAM interfce address 15. (Not used)
5~7,12	SDIB0~2, SDIB3	I	PCM input 0~3 to Sub DSP. (Not used)
8	XI	I	Crystal oscillator connection (12.288MHz).
9	XO	O	Crystal oscillator connection.
10	VSS	-	Ground.
11	AVDD	-	+3.3V power supply (for PLL circuit).
13,14	TEST	-	Test terminal (to be open in normal use). (Not used)
15	OVFB	O	Detection of overflow at Sub DSP. (Not used)
16	DTSDATA	O	Detection of DTS data. (Not used)
17	AC3DATA	O	Detection of AC-3 data. (Not used)
18	SDOB3	O	PCM output from Sub DSP. (Not used)
19	CPO	O	Output terminal for PLL, to be connected to ground through the external analog filter circuit.
20	AVSS	-	Ground (for PLL circuit).
21	VDD2	-	+3.3V power supply (for core logic).
22	SDOA2	O	PCM output from Main DSP (C, LFE). (Not used)
23	SDOA1	O	PCM output from Main DSP (LS, RS). (Not used)
24	SDOA0	O	PCM output from Main DSP (L, R). (Not used)
25~29	RAMA14~10	O	External SRAM Interface address 14 ~ 10. (Not used)
30	VSS	-	Ground.
31	VDD1	-	+5V power supply (for I/Os).
32	OPORT0	O	Output port for general purpose. (Not used)
33~35	OPORT1~3	O	Output port for general purpose.
36	OPORT4	O	Output port for general purpose. (Not used)
37	OPORT5	O	Output port for general purpose.
38	OPORT6	O	Output port for general purpose. (Not used)
39	OPORT7	O	Output port for general purpose. (Not used)
40	VSS	-	Ground.
41	VDD2	-	+3.3V power supply (for core logic).
42~44	RAMA9~7	O	External SRAM interface address 9~7. (Not used)
45~47	SDOB2~0	O	PCM output from Sub DSP.
48	SDBCK1	I	Bit clock input for SDOA, SDIB, SDOB. (Not used)
49	SDWCK1	I	Word clock input for SDOA,SDIB,SDOB. (Not used)
50	VSS	-	Ground.
51	VDD2	-	+3.3V power supply (for core logic).
52	NONPCM	O	Detection of non-PCM data. (Not used)
53	CRC	O	Detection of AC-3 CRC error. (Not used)
54	MUTE	O	Detection of auto mute. (Not used)
55	KARAOKE	O	Detection of AC-3 karaoke data. (Not used)
56	SURENC	O	Detection of AC-3 2/0 mode Dolby surround encoded input. (Not used)

Pin No.	Pin Name	I/O	Description
57	/SDBCK0	O	Inverted SDBCK0 clock output . (Not used)
58,59	RAMA6,5	O	External SRAM interface address 6, 5. (Not used)
60	VSS	-	Ground.
61	RAMA4	O	External SRAM interface address 4. (Not used)
62	/IC	I	Initial clear.
63	TEST	-	Test terminal (Not used).
64	RAMA3	O	External SRAM interface address 3. (Not used)
65	/CSB	I	Sub DSP chip select.
66	/CS	I	Microprocessor interface chip select.
67	SO	O	Microprocessor interface serial data output.
68	SI	I	Microprocessor interface / Sub DSP serial data input.
69	SCK	I	Microprocessor interface / Sub DSP clock input.
70	RAMA2	O	External SRAM interface address 2. (Not used)
71	VDD1	-	+5V power supply (for I/Os).
72~79	RAMD0~7	I/O	External SRAM interface data (STREAM0~7 output when external SRAM is not in use). (Not used)
80	VSS	-	Ground.
81	VDD2	-	+3.3V power supply (for core logic).
82	DSIWCK0	I	Word clock input for SDIA, SDOA, SDIB, SDOB.
83	SDIBCK0	I	Bit clock input for SDIA, SDOA, SDIB, SDOB.
84	SDIA0	I	AC-3 bitstream (or PCM) data input for Main DSP.
85	SDIA1	I	AC-3 bitstream (or PCM) data input for Main DSP.
86,87	RAMA1,0	O	External SRAM interface address 1, 0. (Not used)
88	RAMWEN	O	External SRAM interface / WE. (Not used)
89	RAMWOEN	O	External SRAM interface / OE. (Not used)
90	VSS	-	Ground.
91	VDD2	-	+3.3V power supply (for core logic).
92,93	IPORT7,6	I	Input port for general purpose. (Connected to VSS)
94 ~ 99	IPORT5 ~ 0	I	Input port for general purpose.
100	VSS	-	Ground.

IC, AK4112A

Pin No.	Pin Name	I/O	Description
1	DVDD	-	Digital power supply pin, 3.3V.
2	DVSS	-	Digital ground pin.
3	TVDD	-	Input buffer power supply pin, 3.3V or 5V.
4	DVD1OUT	O	Transmit channel (through data) output pin in serial mode.
5	XTI	I	Crystal input pin.
6	XTO	O	Crystal output pin. (Not used)
7	PDN	I	Power-down mode pin. When "L", the AK4112A is power-down and reset.
8	R	-	External resistor pin. 18kohms +/- 1% resistor to AVSS externally.
9	AVDD	-	Analog power supply pin.
10	AVSS	-	Analog ground pin.
11	DVD1 IN	I	Receiver channel 1 in serial mode.
12	DVD2 IN	I	Receiver channel 2 in serial mode.
13	RX3	I	Receiver channel 3 in serial mode. (Not used)
14	RX4	I	Receiver channel 4 in serial mode. (Not used)
15	AUTO	O	Non-PCM detect pin. "L": No detect, "H": Detect.
16	PS/N	I	Parallel / serial select pin. "L": Serial mode, "H": Parallel mode.
17	FS96	O	96kHz sampling detect pin. (Crystal Mode) "H": XFS96=1, "L": XFS96=0. (RX Mode) "H": fs=88.2kHz or more, "L": fs=54kHz or less.
18	ERF	O	Unlock & parity error output pin. "L": No error, "H": Error.
19	SDWCK0	I/O	Output channel clock pin.
20	SDO	O	Audio serial data output pin.
21	SDBCK0	I/O	Audio serial data clock pin.
22	DAUX	I	Auxiliary audio data input pin. (Not used)
23	MCK	O	Master clock 2 output pin. (Not used)
24	SDMCK	O	Master clock 1 output pin.
25	41-$\overline{CS}$	I	Chip select pin in serial mode.
26	45/41-CK	I	Control data clock pin in serial mode.
27	45/41-SI	I	Control data input pin in serial mode.
28	41-SO	O	Control data output pin in serial mode.

IC, M61501FP

Pin No.	Pin Name	I/O	Description
1	NC	-	Not connected.
2	ING R	I	Right input selector G input. (Connected to GND)
3	REC OUT R	O	Right input B through output.
4	NC	-	Not connected.
5	SEL OUT R	O	Right signal after 0/-6 dB output.
6	D OUT R	I	Right tone A signal input. (Not used)
7	T IN R	I	Right tone B signal input.
8	T CC R	I	Right tone C control.
9	T CB R	I	Right tone B control.
10	T CA R	I	Right tone A control.
11	TONE OUT R	O	Right tone signal output.
12	SW OUT	O	L+R+C signal output. (Not used)
13	AGND	-	R channel analog GND.
14	RCH DIN	I	R channel A select signal input.
15	RCH NIN	I	R channel B select signal input. (Not used)
16	FR-R	O	R channel signal output.
17	RCH BB0	O	R channel bass boost control output.
18	RCH BB1	I	R channel bass boost control input.
19	AGND	-	SR channel analog GND.
20	SRCH DIN	I	SR channel A select signal input.
21	SRCH NIN	I	SR channel B select signal input.
22	SUR-R	O	SR channel signal output.
23	AGND	-	SW channel analog GND.
24	NC	-	Not connected.
25	NC	-	Not connected.
26	SWCH DIN	I	SW channel A select signal input.
27	SWCH NIN	I	SW channel B select signal input. (Not used)
28	S WF	O	SW channel signal output.
29	AVSS	-	Negative analog power supply.
30	DVDD	-	Digital power supply.
31	CLK	I	Digital CLOCK input from Micon.
32	DATA	I	Digital DATA input from Micon.
33	F-STB	I	Digital LATCH input from Micon.
34	DGND	-	Digital GND.
35	AGND	-	Right analog GND (except channel).
36	AGND	-	Left analog GND (except channel).
37	CENTER	O	C channel signal output.
38	CCH NIN	I	C channel B select signal input. (Not used)
39	CCH DIN	I	C channel A select signal input.
40	NC	-	Not connected.
41	NC	-	Not connected.
42	AGND	-	C channel analog GND.

Pin No.	Pin Name	I/O	Description
43	SUR-L	O	SL channel signal output.
44	SLCH NIN	I	SL channel B select signal input.
45	SLCH DIN	I	SL channel A select signal input.
46	AGND	-	SL channel analog GND.
47	LCH BB1	I	L channel bass boost control input.
48	LCH BB0	O	L channel bass boost control input.
49	FR-L	O	L channel signal output.
50	LCH NIN	I	L channel B select signal input. (Not used)
51	LCH DIN	I	L channel A select signal input.
52	AGND	-	L channel analog GND.
53	NC	-	Not connected.
54	TONE OUT L	O	Left tone signal output.
55	T CA L	I	Left tone A control.
56	T CB L	I	Left tone B control.
57	T CC L	I	Left tone C control.
58	T IN L	I	Left tone B signal input.
59	D OUT L	I	Left tone A signal input. (Not used)
60	SEL OUT L	O	Left signal after 0/-6 dB output.
61	NC	-	Not connected.
62	REC OUT L	O	Left signal A through output.
63	ING L	I	Left input selector G input. (Connected to GND)
64	NC	-	Not connected.
65	NC	-	Not connected.
66	INF L	I	Left input selector F input. (Connected to GND)
67	INE L	I	Left input selector E input. (Connected to GND)
68	IND L	I	Left input selector D input. (Connected to GND)
69	TUNER L	I	Left input selector C input.
70	VIDEO1 L	I	Left input selector B input.
71	VIDEO2 L	I	Left input selector A input.
72	AVDD	-	Positive analog power supply.
73	AVDD	-	Positive analog power supply.
74	VIDEO2 R	I	Right input selector A input.
75	VIDEO1 R	I	Right input selector B input.
76	TUNER R	I	Right input selector C input.
77	IND R	I	Right input selector D input. (Connected to GND)
78	INE R	I	Right input selector E input. (Connected to GND)
79	INF R	I	Right input selector F input. (Connected to GND)
80	NC	-	Not connected.

IC, AK4527VQ

Pin No.	Pin Name	I/O	Description
1	SDOS	I	SDTO source select pin. (Note 1) "L": Internal ADC output, "H": DAUX input. (Connected to DVSS)
2	I2C	I	Control mode select pin. (Connected to DVSS)
3	SMUTE	I	Soft mute pin. (Note 1) When this pin goes to "H", soft mute cycle is initialized. When returning to "L", the output mute releases. (Connected to DVSS)
4	BICK	I	Audio serial data clock pin.
5	LRCK	I	Input channel clock pin.
6	SDOB0 SDTI1	I	DAC1 audio serial data input pin.
7	SDOB1 SDTI2	I	DAC2 audio serial data input pin.
8	SDOB2 SDTI3	I	DAC3 audio serial data input pin.
9	SDIA1 SDTO	O	Audio serial data output pin.
10	DAUX	I	AUX audio serial data input pin. (Not used)
11	DFS	I	Double speed sampling mode pin. (Note 1) "L": Normal speed, "H": Double speed. (Connected to DVSS)
12	DEM1	I	De-emphasis 1 pin. (Note 2) (Connected to DVSS)
13	DEM0	I	De-emphasis 0 pin. (Note 2) (Connected to DVSS)
14	TVDD	-	Output buffer power supply pin, 2.7V ~ 5.5V.
15	DVDD	-	Digital power supply pin, 4.5V ~ 5.5V.
16	DVSS	-	Digital ground pin, 0V.
17	PDN	I	Power-down & reset pin. When "L", the AK4527 is powered-down and the control registers are reset to default state. If the state of CAD0-1 changes, then the AK4527 must be reset by PDN.
18	ICKS2	I	Input clock select 2 pin. (Note 1) (Connected to AVSS)
19	ICKS1	I	Input clock select 1 pin. (Note 1) (Connected to AVSS)
20	ICKS0	I	Input clock seclet 0 pin. (Note 1) (Connected to AVSS)
21	CAD1	I	Chip address 1 pin. (Connected to AVSS)
22	CAD0	O	Chip address 0 pin. (Connected to AVSS)
23	CTR	O	DAC3 Lch analog output pin.
24	LEF	O	DAC3 Rch analog output pin.
25	LS	O	DAC2 Lch analog output pin.
26	RS	O	DAC2 Rch analog output pin.
27	FL	O	DAC1 Lch analog output pin.
28	FR	O	DAC1 Rch analog output pin.
29	LIN-	I	Lch analog negative input pin.
30	LIN+	I	Lch analog positive input pin.
31	RIN-	I	Rch analog negative input pin.
32	RIN+	I	Rch analog positive input pin.
33	DZF2	O	Zero input detect 2 pin (Note 3) When the input data of the group 1 follow total 8192 LRCK cycles with "0" input data, this pin goes to "H". This pin is always "L" if P/S ="H". (Not used)

Pin No.	Pin Name	I/O	Description
34	VCOM	O	Common voltage output pin, AVDD/2. Large external capacitor around 2.2µF is used to reduce power-supply noise.
35	VREFH	I	Positive voltage reference input pin, AVDD.
36	AVDD	-	Analog power supply pin, 4.5 ~ 5.5V.
37	AVSS	-	Analog ground pin, 0V.
38	DZF1	O	Zero input detect 1 pin. (Note 3) When the input data of the group 1 follow total 8192 LRCK cycles with "0" input data, this pin goes to "H". This pin is always "L" if P/S = "H".
39	MCLK	I	Master clock input pin.
40	P/SN	I	Parallel/serial select pin. "L": serial control mode, "H": parallel control mode. (Connected to DVSS)
41	DIF0/CSN	I	Audio data interface format 0 pin in parallel control mode/chip select pin in serial control mode.
42	DIF1/SCL/CCLK	I	Audio data interface format 1 pin in parallel control mode/ control data clock pin in serial control mode.
43	LOOP/SDA/CDT1	I	Loopback mode 0 pin in parallel control mode. Enables digital loop-back from ADC to 3 DACs. Control data input pin in serial control mode.
44	LOOP1	I	Loopback mode 1 pin. (Note 1) Enables all 3 DAC channels to be input from SDTI1. (Connected to DVSS)

Notes:
1. SDOS, SMUTE, DFS, ICKS2-0 and Loop1 pins are ORed with register data if P/S = "L".
2. DEM1-0 pins are ORed with register data of DEMA1-C0 bits if P/S = "L".
   DEM1 pin = "H" : DEMA1 = DEMB1 = DEMC1 = "1",
   DEM0 pin = "H" : DEMA0 = DEMB0 = DEMC0 = "1".
3. The group 1 and 2 can be selected by DZFM2-0 bits if P/S = "L".
4. All input pins should not be left floating.

IC, TA2020-020

Pin No.	Pin Name	I/O	Description
1,5,15	NC	-	Not connected.
2,8	+5INA, +5INB	-	Digital +5V, analog +5V.
3	AGND1	-	Analog ground.
4	REF	-	Reference resistor.
6	OVERLOAD	O	A logic low output indicates the input signal has overloaded the amplifier. (Not used)
7	AGND2	-	Analog ground.
9,12	VP1,VP2	I	Input stage feedback drive.
10,13	IN1,IN2	I	Single-ended inputs.
11	MUTE	I	When set to logic high, both amplifiers are muted and in low power (idle) mode. When low (grounded), both amplifiers are fully operational. If left floating, the device stays in the mute mode. Ground if not used.
14	V2DG	-	Bias stabilization capacitor.
16	GNBATTM	-	Analog ground.
17	SLEEP	I	When set to logic high, device goes into low power mode. If not used this pin should be grounded.
18	FAULT	O	A logic high output indicates thermal overload, or an output is shorted to ground or another output.
19,28	PGND2,PGND1	-	Power ground (High current).
20	DGND	-	Digital ground.
21	OUTP2+	O	Bridged output.
22,25	VDD2,VDD1	-	+13.5V power (High current).
23	OUTP2-	O	Bridged output.
24	OUTP1-	O	Bridged output.
26	OUTP1+	O	Bridged output.
27	VDDA	-	Analog +13.5V.
29	CPUMP	O	Charge pump output capacitor.
30	+5GEN	-	Regulated +5V source used to supply power to pins 2 & 8.
31,32	DCAP2,DCAP1	-	Charge pump switching capacitor.

ADJUSTMENT

< TUNER SECTION >

1. Clock Frequency Check
   Settings : • Test point : TP2 (CLK)
   Method : Set to AM 1602kHz and check that the test point is 2052kHz ± 45Hz.

2. AM VT Check
   Settings : • Test point : TP1 (VT)
   Method : Set to AM 1602kHz and check that the test point is less than 8.0V. Then set to AM 531kHz and check that the test point is more than 0.6V.

3. AM Tracking Adjustment
   Settings : • Test point : TP8 (Rch), TP9 (Lch)
   • Adjustment location : L951 (1/3)
   Method : Set to AM 999kHz and adjust L951 (1/3) so that the test point becomes maximum.

4. AM IF Adjustment
   Settings : • Test point : TP8 (Rch), TP9 (Lch)
   • Adjustment location :
   L802 ..... 450kHz

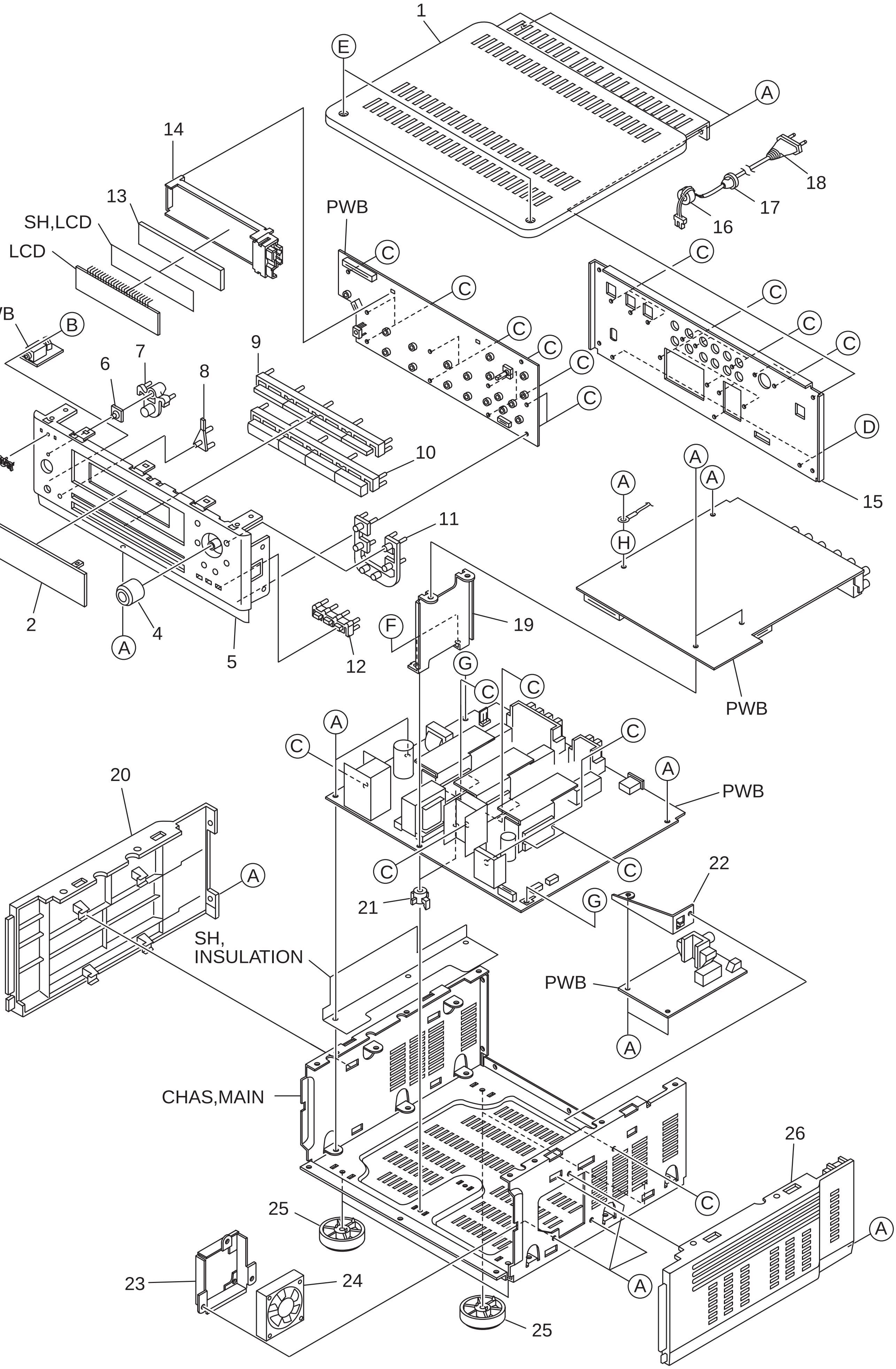
5. FM VT Adjustment
   Settings : • Test point : TP1 (VT)
   • Adjustment location : L907
   Method : Set to FM 108.0MHz and adjust L907 so that the test point is 7.0V ± 0.05V. Then set to FM 87.5MHz and check that the test point is more than 0.5V.

6. FM Tracking Adjustment
   Settings : • Test point : TP8 (Rch), TP9 (Lch)
   • Adjustment location : L901, L902, L904, L905
   Method : Set to FM 108.0MHz and adjust L901, L902, L904, L905 so that the test point becomes maximum with minimum distortion.

7. FM Tracking Check
   Settings : • Test point : TP8 (Rch), TP9 (Lch)
   Method : Set to FM 98.0MHz and check that the test point is less than 13dBμV.

8. DC Balance / Mono Distortion Adjustment
   Settings : • Test point : TP3, TP4 (DC balance)
   • Adjustment location : L801
   • Input level : 60dBμV
   Method : Set to FM 98.0MHz and adjust L801 so that the voltage between TP3 and TP4 is 0V ± 500mV. Next, check the distortion is less than 1.2 %.

MECHANICAL EXPLODED VIEW 1 / 1



MECHANICAL PARTS LIST 1 / 1

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
1	8A-AR6-004-010		PANEL,TOP
2	8A-AR6-044-010		WINDOW,DISP EZ
3	8A-AV6-008-010		BADGE,AIWA 25 SIL
4	8A-AR6-010-010		KNOB,RTRY VOL
5	8A-AR6-021-010		CABI,FR EZ
6	8A-AR6-019-010		REFLECTOR,POWER
7	8A-AR6-005-010		KEY,POWER
8	8A-AR6-013-010		LENS,REMCON
9	8A-AR6-007-010		KEY,SURROUND
10	8A-AR6-008-010		KEY,FUN
11	8A-AR6-009-010		KEY,TUN
12	8A-AR6-018-010		KEY,RDS
13	8A-AR6-017-010		PLATE,REFLECTOR
14	8A-AR6-202-010		GUIDE,LCD
15	8A-AR6-037-010		PANEL,REAR EZSC
16	87-A90-457-010		F-BEAD,15-25-15 E251
17	87-085-185-010		BUSHING, AC CORD (E)
⚠ 18	8A-MTM-649-010		AC CORD ASSY,EKH BLK
19	8A-AR6-203-010		HLDR,PWB
20	8A-AR6-002-010		PANEL,SIDE L

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
21	88-AR1-218-010		HLDR,PWB H8.9
22	8A-AR6-212-010		HLDR,PWB TU
23	8A-AR6-214-010		HLDR,FAN
24	8Z-CL1-663-010		FAN,MF40D-12-200MM
25	8A-AR6-011-010		FOOT,AAR
26	8A-AR6-003-010		PANEL,SIDE R
A	87-067-579-010		TAPPING SCREW, BVT2+3-8
B	88-AR1-217-010		S-SCREW,BFT2+3-8
C	87-067-703-010		TAPPING SCREW, BVT2+3-10
D	87-067-584-010		TAPPING SCREW, BVT2+3-6
E	87-743-095-410		TAPPING SCREW, UT2+3-8 (B)
F	87-067-581-010		TAPPING SCREW, BVT2+3-15
G	87-NF4-224-010		S-SCREW,IT3B+3-8 CU
H	87-067-130-010		W-F, 3.2-8.1 W/ADH

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
LA	Aqua Blue	GL	Light Green	HT	Transparent Gray

MODEL NO.

XD-DV50

ELECTRICAL MAIN PARTS LIST

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
IC			
	8Z-AV2-630-010		C-IC,L64021D
	8Z-AV2-628-010		C-IC,HD6412350F20
	8A-ZA7-804-010		C-IC,LC87F72C8A
	8A-ZA7-803-010		C-IC,LC78660W
	8A-ZA7-802-040		C-IC,LC324265AT-25DV
	8A-ZA7-801-040		C-IC,LA6556L-TE-L
	8A-ZA7-800-010		C-IC,LA9702W-MPB
	8A-ZA7-602-040		C-IC,HN58X2416FPI
	8A-AV6-632-010		IC,P-ROMAAV-6(VER.029)
	8A-AV6-605-030		C-IC,UT611024LC-12
	88-KT1-608-010		C-IC,LC75854W
	87-A21-764-040		C-IC,BA00ASFP
	87-A21-755-040		C-IC,SN74LV541APW
	87-A21-754-010		C-IC,MC44722AVFU
	87-A21-697-040		C-IC,TC7SHU04F
	87-A21-617-010		C-IC,HY57V161610DTC-8
	87-A21-613-040		C-IC,SN74LV04APW
	87-A21-362-040		C-IC,NJM2100M(TE2)
	87-A21-309-040		C-IC,HD74LV74A
	87-A21-245-010		IC,RPM6938-V4
	87-A21-103-040		C-IC,MM1454XFBE
	87-A21-032-080		C-IC,S-8520B28MC
	87-A20-957-040		C-IC,SN74LV245APW
	87-A20-925-040		C-IC,BA05FP
	87-A20-905-040		C-IC,BA033FP
	87-A20-689-080		C-IC,PCM1723
	87-A20-582-010		IC,GP1F31TJ
	87-A20-185-040		C-IC,PST600DMT
	87-A20-080-040		C-IC,TC74HC14AF
	87-017-917-080		C-IC,BU4066BCF
	87-017-750-080		C-IC,MM1041XM
	87-017-585-080		C-IC,NJM4580E
	87-017-453-080		C-IC,NJM2267M
	87-017-027-040		C-IC,TC7W08F
	87-001-551-080		C-IC,TC7S08F
TRANSISTOR			
	89-342-132-080		C-TR,2SC4213B
	89-341-165-080		C-TR,2SC4116GR
	89-333-265-040		C-TR,2SC3326A
	89-324-123-080		C-TR,2SC2412KS
	89-211-323-080		C-TR,2SB1132R
	89-115-864-080		C-TR,2SA1586Y
	89-110-372-080		C-TR,2SA1037K(R)
	87-A30-516-040		C-FET,3LN01C-TB
	87-A30-382-040		C-FET,FTS1002
	87-026-342-080		C-TR,DTC144EU
	87-026-227-080		C-TR,DTA114EK
	87-026-211-080		C-TR,DTA144EK
	87-026-210-080		C-TR,DTC144EK
DIODE			
	87-A40-797-040		C-DIODE,SBE001
	87-017-990-080		C-DIODE,U2FWJ44N
	87-017-779-080		C-DIODE,1SS355
	87-001-166-080		C-DIODE,1SS301
	87-001-165-080		C-DIODE,1SS300
MAIN C.B			
C0002	87-016-669-080		C-CAP,S 0.1-25 K B
C0003	87-010-831-080		C-CAP,U 0.1-16 Z F
C0005	87-A11-976-080		C-CAP,E 470-16 M 10.5L MV
C0006	87-A12-416-080		C-CAP,E 100U-25 M 7.7L UD
C0007	87-016-669-080		C-CAP,S 0.1-25 K B
C0008	87-A12-416-080		C-CAP,E 100U-25 M 7.7L UD
C0009	87-016-669-080		C-CAP,S 0.1-25 K B
C0010	87-012-286-080		C-CAP,U 0.01-25 K B
C0012	87-A11-282-080		C-CAP,S 1-16 K B
C0015	87-A11-282-080		C-CAP,S 1-16 K B
C0016	87-010-831-080		C-CAP,U 0.1-16 Z F
C0017	87-A11-976-080		C-CAP,E 470-16 M 10.5L MV
C0018	87-010-831-080		C-CAP,U 0.1-16 Z F
C0019	87-A11-976-080		C-CAP,E 470-16 M 10.5L MV
C0020	87-A11-282-080		C-CAP,S 1-16 K B
C0021	87-010-831-080		C-CAP,U 0.1-16 Z F
C0022	87-A11-976-080		C-CAP,E 470-16 M 10.5L MV
C0023	87-010-831-080		C-CAP,U 0.1-16 Z F
C0024	87-A11-976-080		C-CAP,E 470-16 M 10.5L MV
C0026	87-010-831-080		C-CAP,U 0.1-16 Z F
C0027	87-A11-976-080		C-CAP,E 470-16 M 10.5L MV
C0028	87-010-831-080		C-CAP,U 0.1-16 Z F
C0029	87-A11-976-080		C-CAP,E 470-16 M 10.5L MV
C0100	87-012-274-080		C-CAP,U 1000P-50 K B
C0101	87-016-428-080		C-CAP,E 47-16 M 5.5L WX
C0102	87-010-831-080		C-CAP,U 0.1-16 Z F
C0103	87-010-831-080		C-CAP,U 0.1-16 Z F
C0104	87-012-180-080		C-CAP,U 22P-50 J CH
C0105	87-012-180-080		C-CAP,U 22P-50 J CH
C0106	87-010-831-080		C-CAP,U 0.1-16 Z F
C0107	87-016-428-080		C-CAP,E 47-16 M 5.5L WX
C0108	87-010-831-080		C-CAP,U 0.1-16 Z F
C0109	87-016-428-080		C-CAP,E 47-16 M 5.5L WX
C0110	87-010-831-080		C-CAP,U 0.1-16 Z F
C0111	87-012-195-080		C-CAP,U 100P-50 J CH
C0112	87-010-831-080		C-CAP,U 0.1-16 Z F
C0113	87-010-848-080		C-CAP,E 10-16 M 5.5L MV
C0114	87-010-848-080		C-CAP,E 10-16 M 5.5L MV
C0115	87-010-831-080		C-CAP,U 0.1-16 Z F
C0116	87-012-172-080		C-CAP,U 10P-50 D CH
C0117	87-012-172-080		C-CAP,U 10P-50 D CH
C0118	87-012-172-080		C-CAP,U 10P-50 D CH
C0119	87-012-172-080		C-CAP,U 10P-50 D CH
C0120	87-012-172-080		C-CAP,U 10P-50 D CH
C0121	87-012-172-080		C-CAP,U 10P-50 D CH
C0122	87-012-172-080		C-CAP,U 10P-50 D CH
C0123	87-012-172-080		C-CAP,U 10P-50 D CH
C0124	87-012-172-080		C-CAP,U 10P-50 D CH
C0125	87-012-172-080		C-CAP,U 10P-50 D CH
C0126	87-012-286-080		C-CAP,U 0.01-25 K B
C0127	87-012-286-080		C-CAP,U 0.01-25 K B
C0128	87-012-286-080		C-CAP,U 0.01-25 K B
C0129	87-012-286-080		C-CAP,U 0.01-25 K B
C0130	87-012-286-080		C-CAP,U 0.01-25 K B
C0201	87-010-831-080		C-CAP,U 0.1-16 Z F
C0202	87-A11-031-080		C-CAP,E 100-16 M WX
C0203	87-010-831-080		C-CAP,U 0.1-16 Z F
C0205	87-010-831-080		C-CAP,U 0.1-16 Z F
C0206	87-A11-031-080		C-CAP,E 100-16 M WX
C0208	87-016-430-080		C-CAP,E 100-6.3 M 5.5L WX
C0209	87-016-427-080		C-CAP,E 47-6.3 M 5.5L WX
C0211	87-010-831-080		C-CAP,U 0.1-16 Z F
C0217	87-010-831-080		C-CAP,U 0.1-16 Z F
C0218	87-010-831-080		C-CAP,U 0.1-16 Z F
C0219	87-A12-344-080		C-CAP,E 100-6.3 VC PX
C0220	87-012-274-080		C-CAP,U 1000P-50 K B
C0221	87-012-274-080		C-CAP,U 1000P-50 K B

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
C0222	87-010-831-080		C-CAP,U 0.1-16 Z F
C0224	87-012-277-080		C-CAP,U 1800P-50 K B GRM
C0225	87-012-274-080		C-CAP,U 1000P-50 K B
C0226	87-012-274-080		C-CAP,U 1000P-50 K B
C0227	87-012-274-080		C-CAP,U 1000P-50 K B
C0228	87-012-274-080		C-CAP,U 1000P-50 K B
C0229	87-012-274-080		C-CAP,U 1000P-50 K B
C0231	87-012-274-080		C-CAP,U 1000P-50 K B
C0232	87-012-274-080		C-CAP,U 1000P-50 K B
C0233	87-010-831-080		C-CAP,U 0.1-16 Z F
C0234	87-010-831-080		C-CAP,U 0.1-16 Z F
C0235	87-012-174-080		C-CAP,U 12P-50 J CH
C0236	87-012-174-080		C-CAP,U 12P-50 J CH
C0237	87-010-831-080		C-CAP,U 0.1-16 Z F
C0238	87-010-829-080		C-CAP,U 0.047-16 Z F
C0239	87-010-829-080		C-CAP,U 0.047-16 Z F
C0240	87-010-831-080		C-CAP,U 0.1-16 Z F
C0241	87-010-831-080		C-CAP,U 0.1-16 Z F
C0242	87-012-286-080		C-CAP,U 0.01-25 K B
C0243	87-012-197-080		C-CAP,U 150P-50 J CH
C0244	87-010-831-080		C-CAP,U 0.1-16 Z F
C0245	87-010-831-080		C-CAP,U 0.1-16 Z F
C0246	87-010-831-080		C-CAP,U 0.1-16 Z F
C0247	87-010-831-080		C-CAP,U 0.1-16 Z F
C0248	87-010-831-080		C-CAP,U 0.1-16 Z F
C0249	87-010-831-080		C-CAP,U 0.1-16 Z F
C0250	87-010-831-080		C-CAP,U 0.1-16 Z F
C0251	87-010-831-080		C-CAP,U 0.1-16 Z F
C0252	87-010-831-080		C-CAP,U 0.1-16 Z F
C0253	87-010-831-080		C-CAP,U 0.1-16 Z F
C0254	87-010-831-080		C-CAP,U 0.1-16 Z F
C0255	87-010-831-080		C-CAP,U 0.1-16 Z F
C0256	87-012-282-080		C-CAP,U 4700P-50 K B
C0257	87-016-427-080		C-CAP,E 47-6.3 M 5.5L WX
C0259	87-016-427-080		C-CAP,E 47-6.3 M 5.5L WX
C0260	87-012-286-080		C-CAP,U 0.01-25 K B
C0261	87-012-286-080		C-CAP,U 0.01-25 K B
C0300	87-016-427-080		C-CAP,E 47-6.3 M 5.5L WX
C0301	87-016-427-080		C-CAP,E 47-6.3 M 5.5L WX
C0302	87-010-831-080		C-CAP,U 0.1-16 Z F
C0303	87-010-831-080		C-CAP,U 0.1-16 Z F
C0304	87-012-274-080		C-CAP,U 1000P-50 K B
C0305	87-016-428-080		C-CAP,E 47-16 M 5.5L WX
C0307	87-012-274-080		C-CAP,U 1000P-50 K B
C0308	87-016-428-080		C-CAP,E 47-16 M 5.5L WX
C0311	87-010-831-080		C-CAP,U 0.1-16 Z F
C0312	87-012-271-080		C-CAP,U 560P-50 K B
C0313	87-012-271-080		C-CAP,U 560P-50 K B
C0314	87-012-271-080		C-CAP,U 560P-50 K B
C0315	87-012-271-080		C-CAP,U 560P-50 K B
C0316	87-012-271-080		C-CAP,U 560P-50 K B
C0317	87-012-282-080		C-CAP,U 4700P-50 K B
C0318	87-012-271-080		C-CAP,U 560P-50 K B
C0319	87-012-196-080		C-CAP,U 120P-50 J CH
C0320	87-A11-031-080		C-CAP,E 100-16 M WX
C0321	87-010-831-080		C-CAP,U 0.1-16 Z F
C0322	87-012-196-080		C-CAP,U 120P-50 J CH
C0323	87-010-831-080		C-CAP,U 0.1-16 Z F
C0324	87-012-197-080		C-CAP,U 150P-50 J CH
C0330	87-012-184-080		C-CAP,U 33P-50 J CH
C0332	87-012-197-080		C-CAP,U 150P-50 J CH
C0333	87-012-184-080		C-CAP,U 33P-50 J CH
C0334	87-012-191-080		C-CAP,U 68P-50 J CH
C0335	87-012-199-080		C-CAP,U 220P-50 J CH
C0336	87-012-197-080		C-CAP,U 150P-50 J CH
C0337	87-012-188-080		C-CAP,U 47P-50 J CH
C0338	87-012-174-080		C-CAP,U 12P-50 J CH
C0339	87-012-195-080		C-CAP,U 100P-50 J CH
C0340	87-016-428-080		C-CAP,E 47-16 M 5.5L WX
C0341	87-012-193-080		C-CAP,U 82P-50 J CH
C0342	87-012-180-080		C-CAP,U 22P-50 J CH
C0343	87-012-270-080		C-CAP,U 470P-50 K B
C0344	87-012-195-080		C-CAP,U 100P-50 J CH
C0345	87-012-197-080		C-CAP,U 150P-50 J CH
C0346	87-012-196-080		C-CAP,U 120P-50 J CH
C0347	87-012-165-080		C-CAP,U 3P-50 C CH
C0348	87-010-831-080		C-CAP,U 0.1-16 Z F
C0349	87-010-843-080		C-CAP,E 1-50 M 5.5L MV
C0350	87-010-831-080		C-CAP,U 0.1-16 Z F
C0351	87-010-831-080		C-CAP,U 0.1-16 Z F
C0352	87-016-427-080		C-CAP,E 47-6.3 M 5.5L WX
C0353	87-016-427-080		C-CAP,E 47-6.3 M 5.5L WX
C0354	87-012-164-080		C-CAP,U 2P-50 C CH
C0355	87-A11-031-080		C-CAP,E 100-16 M WX
C0356	87-012-176-080		C-CAP,U 15P-50 J CH
C0357	87-010-831-080		C-CAP,U 0.1-16 Z F
C0358	87-012-274-080		C-CAP,U 1000P-50 K B
C0359	87-012-274-080		C-CAP,U 1000P-50 K B
C0400	87-010-831-080		C-CAP,U 0.1-16 Z F
C0401	87-016-427-080		C-CAP,E 47-6.3 M 5.5L WX
C0402	87-010-831-080		C-CAP,U 0.1-16 Z F
C0403	87-010-831-080		C-CAP,U 0.1-16 Z F
C0404	87-A11-968-080		C-CAP,E 220-16 M UR
C0405	87-010-831-080		C-CAP,U 0.1-16 Z F
C0406	87-010-831-080		C-CAP,U 0.1-16 Z F
C0407	87-012-199-080		C-CAP,U 220P-50 J CH
C0408	87-012-199-080		C-CAP,U 220P-50 J CH
C0409	87-012-199-080		C-CAP,U 220P-50 J CH
C0410	87-012-199-080		C-CAP,U 220P-50 J CH
C0424	87-010-848-080		C-CAP,E 10-16 M 5.5L MV
C0425	87-010-831-080		C-CAP,U 0.1-16 Z F
C0426	87-010-831-080		C-CAP,U 0.1-16 Z F
C0427	87-010-848-080		C-CAP,E 10-16 M 5.5L MV
C0601	87-012-286-080		C-CAP,U 0.01-25 K B
C0602	87-012-286-080		C-CAP,U 0.01-25 K B
C0604	87-012-286-080		C-CAP,U 0.01-25 K B
C0605	87-012-286-080		C-CAP,U 0.01-25 K B
C0608	87-016-428-080		C-CAP,E 47-16 M 5.5L WX
C0609	87-012-286-080		C-CAP,U 0.01-25 K B
C0612	87-012-286-080		C-CAP,U 0.01-25 K B
C0613	87-012-286-080		C-CAP,U 0.01-25 K B
C0614	87-012-172-080		C-CAP,U 10P-50 D CH
C0615	87-016-428-080		C-CAP,E 47-16 M 5.5L WX
C0617	87-012-172-080		C-CAP,U 10P-50 D CH
C0619	87-012-286-080		C-CAP,U 0.01-25 K B
C0620	87-012-286-080		C-CAP,U 0.01-25 K B
C0623	87-012-286-080		C-CAP,U 0.01-25 K B
C0624	87-012-286-080		C-CAP,U 0.01-25 K B
C0625	87-010-848-080		C-CAP,E 10-16 M 5.5L MV
C0626	87-012-286-080		C-CAP,U 0.01-25 K B
C0627	87-012-286-080		C-CAP,U 0.01-25 K B
C0628	87-012-286-080		C-CAP,U 0.01-25 K B
C0630	87-010-848-080		C-CAP,E 10-16 M 5.5L MV
C0632	87-010-848-080		C-CAP,E 10-16 M 5.5L MV
C0634	87-012-286-080		C-CAP,U 0.01-25 K B
C0639	87-010-848-080		C-CAP,E 10-16 M 5.5L MV
C0640	87-012-286-080		C-CAP,U 0.01-25 K B
C0641	87-012-286-080		C-CAP,U 0.01-25 K B
C0642	87-012-286-080		C-CAP,U 0.01-25 K B
C0643	87-010-197-080		C-CAP,S 0.01-25 K B C2012
C0702	87-016-428-080		C-CAP,E 47-16 M 5.5L WX
C0703	87-A11-031-080		C-CAP,E 100-16 M WX
C0704	87-012-286-080		C-CAP,U 0.01-25 K B
C0705	87-012-286-080		C-CAP,U 0.01-25 K B
C0706	87-012-286-080		C-CAP,U 0.01-25 K B
C0707	87-012-278-080		C-CAP,U 2200P-50 K B
C0708	87-012-286-080		C-CAP,U 0.01-25 K B
C0709	87-012-286-080		C-CAP,U 0.01-25 K B
C0710	87-016-428-080		C-CAP,E 47-16 M 5.5L WX
C0711	87-012-286-080		C-CAP,U 0.01-25 K B

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
C0712	87-012-286-080		C-CAP,U 0.01-25 K B
C0713	87-012-286-080		C-CAP,U 0.01-25 K B
C0714	87-012-286-080		C-CAP,U 0.01-25 K B
C0715	87-012-286-080		C-CAP,U 0.01-25 K B
C0716	87-012-286-080		C-CAP,U 0.01-25 K B
C0717	87-012-286-080		C-CAP,U 0.01-25 K B
C0718	87-012-286-080		C-CAP,U 0.01-25 K B
C0719	87-012-286-080		C-CAP,U 0.01-25 K B
C0720	87-012-286-080		C-CAP,U 0.01-25 K B
C0721	87-012-286-080		C-CAP,U 0.01-25 K B
C0722	87-012-286-080		C-CAP,U 0.01-25 K B
C0723	87-012-286-080		C-CAP,U 0.01-25 K B
C0724	87-012-286-080		C-CAP,U 0.01-25 K B
C0725	87-012-170-080		C-CAP,U 8P-50 D CH
C0726	87-012-196-080		C-CAP,U 120P-50 J CH
C0731	87-010-848-080		C-CAP,E 10-16 M 5.5L MV
C0732	87-012-286-080		C-CAP,U 0.01-25 K B
C0733	87-012-196-080		C-CAP,U 120P-50 J CH
C0734	87-012-170-080		C-CAP,U 8P-50 D CH
C0735	87-012-286-080		C-CAP,U 0.01-25 K B
C0736	87-010-848-080		C-CAP,E 10-16 M 5.5L MV
C0737	87-010-848-080		C-CAP,E 10-16 M 5.5L MV
C0738	87-012-196-080		C-CAP,U 120P-50 J CH
C0741	87-010-831-080		C-CAP,U 0.1-16 Z F
C0744	87-010-831-080		C-CAP,U 0.1-16 Z F
C0745	87-010-831-080		C-CAP,U 0.1-16 Z F
C0759	87-010-848-080		C-CAP,E 10-16 M 5.5L MV
C0760	87-010-848-080		C-CAP,E 10-16 M 5.5L MV
C0771	87-012-278-080		C-CAP,U 2200P-50 K B
C0772	87-012-278-080		C-CAP,U 2200P-50 K B
C0773	87-012-279-080		C-CAP,U 2700P-50 K B GRM
C0774	87-012-279-080		C-CAP,U 2700P-50 K B GRM
C0775	87-012-267-080		C-CAP,U 270P-50 K B GRM
C0776	87-012-267-080		C-CAP,U 270P-50 K B GRM
C0777	87-010-458-080		C-CAP,E 2.2-50 M MV
C0778	87-010-458-080		C-CAP,E 2.2-50 M MV
C0779	87-A11-974-080		C-CAP,E 22-16 M 5.5L MV
C0780	87-A11-974-080		C-CAP,E 22-16 M 5.5L MV
C0781	87-012-186-080		C-CAP,U 39P-50 J CH
C0782	87-012-186-080		C-CAP,U 39P-50 J CH
C0783	87-010-848-080		C-CAP,E 10-16 M 5.5L MV
C0784	87-010-831-080		C-CAP,U 0.1-16 Z F
C0785	87-010-831-080		C-CAP,U 0.1-16 Z F
C0786	87-010-848-080		C-CAP,E 10-16 M 5.5L MV
C0787	87-010-831-080		C-CAP,U 0.1-16 Z F
C0788	87-010-831-080		C-CAP,U 0.1-16 Z F
C0789	87-010-848-080		C-CAP,E 10-16 M 5.5L MV
C0790	87-010-848-080		C-CAP,E 10-16 M 5.5L MV
C0791	87-012-195-080		C-CAP,U 100P-50 J CH
C0792	87-016-428-080		C-CAP,E 47-16 M 5.5L WX
C0793	87-012-286-080		C-CAP,U 0.01-25 K B
C0794	87-012-286-080		C-CAP,U 0.01-25 K B
C0795	87-A11-974-080		C-CAP,E 22-16 M 5.5L MV
C0800	87-012-286-080		C-CAP,U 0.01-25 K B
C0801	87-016-428-080		C-CAP,E 47-16 M 5.5L WX
C0802	87-016-428-080		C-CAP,E 47-16 M 5.5L WX
C0803	87-010-831-080		C-CAP,U 0.1-16 Z F
C0804	87-010-831-080		C-CAP,U 0.1-16 Z F
C0806	87-010-831-080		C-CAP,U 0.1-16 Z F
C0810	87-012-286-080		C-CAP,U 0.01-25 K B
C0811	87-016-428-080		C-CAP,E 47-16 M 5.5L WX
C0812	87-012-286-080		C-CAP,U 0.01-25 K B
C0817	87-010-848-080		C-CAP,E 10-16 M 5.5L MV
C0818	87-012-286-080		C-CAP,U 0.01-25 K B
C0819	87-012-186-080		C-CAP,U 39P-50 J CH
C0820	87-012-182-080		C-CAP,U 27P-50 J CH
C0834	87-012-184-080		C-CAP,U 33P-50 J CH
C0835	87-012-174-080		C-CAP,U 12P-50 J CH
C0836	87-012-178-080		C-CAP,U 18P-50 J CH
C0837	87-012-184-080		C-CAP,U 33P-50 J CH
C0838	87-012-174-080		C-CAP,U 12P-50 J CH
C0839	87-012-178-080		C-CAP,U 18P-50 J CH
C0844	87-012-168-080		C-CAP,U 6P-50 D CH
C0950	87-012-286-080		C-CAP,U 0.01-25 K B
C0951	87-010-848-080		C-CAP,E 10-16 M 5.5L MV
C0952	87-010-846-080		C-CAP,E 4.7-35 M 5.5L MV
C0953	87-A11-974-080		C-CAP,E 22-16 M 5.5L MV
C0954	87-A11-031-080		C-CAP,E 100-16 M WX
C0955	87-012-286-080		C-CAP,U 0.01-25 K B
C0956	87-010-846-080		C-CAP,E 4.7-35 M 5.5L MV
C0957	87-A11-974-080		C-CAP,E 22-16 M 5.5L MV
C0958	87-A11-031-080		C-CAP,E 100-16 M WX
C0959	87-012-286-080		C-CAP,U 0.01-25 K B
C0960	87-012-286-080		C-CAP,U 0.01-25 K B
C0961	87-010-831-080		C-CAP,U 0.1-16 Z F
CN0100	87-A61-476-080		C-CONN,10P V WHT BM10B-SRSS-TB
CN0300	87-A61-459-080		C-CONN,33P H XF2H-3315-1
CN0402	87-A61-337-080		C-CONN,9P V WHT PH-SM3-TB
CN0600	87-009-984-080		C-CONN,2P V WHT ZR
CN0601	87-A60-777-010		CONN,14P B TMC-D(P)
CNA0402	8A-ZGD-607-010		CONN ASSY,9P PH
CNA0601	8A-AV6-618-010		CONN ASSY,2P V WHT LID U (CHIN
FB0001	87-A91-720-080		C-F-BEAD, FBMJ3216HS800-T
FB0002	87-A91-720-080		C-F-BEAD, FBMJ3216HS800-T
FB0003	87-A91-720-080		C-F-BEAD, FBMJ3216HS800-T
FB0005	87-A91-720-080		C-F-BEAD, FBMJ3216HS800-T
FB0006	87-A91-720-080		C-F-BEAD, FBMJ3216HS800-T
FB0007	87-A91-720-080		C-F-BEAD, FBMJ3216HS800-T
FB0008	87-A91-720-080		C-F-BEAD, FBMJ3216HS800-T
FB0201	87-A91-720-080		C-F-BEAD, FBMJ3216HS800-T
FB0731	87-A91-480-080		C-F-BEAD, BK1608 HS121
FB0737	87-A91-480-080		C-F-BEAD, BK1608 HS121
FB0739	87-A91-480-080		C-F-BEAD, BK1608 HS121
FFC0001	8A-AV6-607-010		FLEX-PWB,33P RF
J0001	87-A61-165-010		JACK,DC 4.75 BLK 10.5
J0606	87-A61-145-010		C-SOCKET,IC 2-44P IC179-44600
J0950	87-A60-127-010		JACK,Y/CYKF51-5503
J0951	87-A61-473-010		JACK,PIN 3P WHT YKC21-5816
L0003	87-A50-545-080		C-COIL,47UH-D124C
L0004	84-HD1-620-080		C-COIL, 22UH M D75C
L0005	87-A50-395-080		C-COIL,100UHD73C-636CY
L0006	87-A50-395-080		C-COIL,100UHD73C-636CY
L0100	87-A50-667-080		C-COIL, 1.0UH K FLC32
L0201	87-A50-395-080		C-COIL,100UHD73C-636CY
L0202	87-A91-720-080		C-F-BEAD, FBMJ3216HS800-T
L0203	87-A50-668-080		C-COIL, 2.2UH K FLC32
L0300	87-A50-395-080		C-COIL,100UHD73C-636CY
L0301	87-005-811-080		C-COIL, 10UH FLC32
L0302	87-005-811-080		C-COIL, 10UH FLC32
L0400	87-A50-667-080		C-COIL, 1.0UH K FLC32
L0600	87-A50-667-080		C-COIL, 1.0UH K FLC32
L0601	87-A50-667-080		C-COIL, 1.0UH K FLC32
L0602	87-A50-667-080		C-COIL, 1.0UH K FLC32
L0603	87-A50-667-080		C-COIL, 1.0UH K FLC32
L0700	87-A50-667-080		C-COIL, 1.0UH K FLC32
L0701	87-A50-667-080		C-COIL, 1.0UH K FLC32
L0702	87-A50-668-080		C-COIL, 2.2UH K FLC32
L0704	87-A50-668-080		C-COIL, 2.2UH K FLC32
L0705	87-005-815-080		C-COIL, 22UH J FLC32
L0800	87-A50-668-080		C-COIL, 2.2UH K FLC32
L0801	87-005-815-080		C-COIL, 22UH J FLC32
L0802	87-005-811-080		C-COIL, 10UH FLC32
L0803	87-005-817-080		C-COIL, 33UH J FLC32
L0805	87-005-816-080		C-COIL, 27UH J FLC32
L0806	87-005-816-080		C-COIL, 27UH J FLC32
L0810	87-005-816-080		C-COIL, 27UH J FLC32
L0811	87-005-816-080		C-COIL, 27UH J FLC32
L0950	87-005-815-080		C-COIL, 22UH J FLC32
R0005	87-022-247-080		C-RES,U 22K-1/16W F
R0006	87-022-284-080		C-RES,U 68K-1/16W F

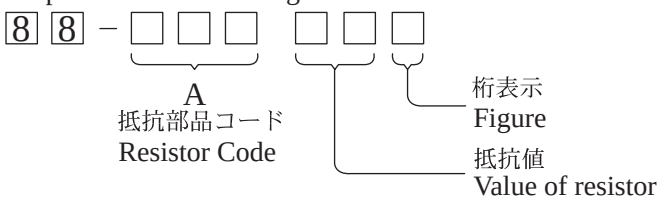
REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
R0012	87-022-284-080		C-RES,U 68K-1/16W F
R0013	87-022-285-080		C-RES,U 82K-1/16W F
R0020	87-022-241-080		C-RES,U 12K-1/16W F
R0021	87-022-223-080		C-RES,U 2.2K-1/16W F
S0950	87-A90-166-010		SW,SL SLD-12-500H
X0100	87-A70-284-080		C-VIB,XTAL 10MHZ HC-49/U03C
X0200	87-A70-283-080		C-VIB,XTAL 16.9344MHZ HC-49/U0
X0600	87-A70-194-080		C-VIB,XTAL 20MHZ HC-49/U03C
X0700	87-A70-195-080		C-VIB,XTAL 27MHZ HC-49/U03C
FRONT C.B			
C0500	87-010-831-080		C-CAP,U 0.1-16 Z F
C0501	87-010-831-080		C-CAP,U 0.1-16 Z F
C0502	87-012-272-080		C-CAP,U 680P-50 K B GRM
C0503	87-010-831-080		C-CAP,U 0.1-16 Z F
C0504	87-010-498-080		CAP,E 10-16 M 5L SRE
C0505	87-010-831-080		C-CAP,U 0.1-16 Z F
C0506	87-010-498-080		CAP,E 10-16 M 5L SRE
CN0500	87-A60-769-010		CONN,14P B TMC-D(X)
L0500	87-005-184-080		COIL,1UH K EL0606
LCD0500	8A-AV6-608-010		LCD,AAV-6

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
LED0500	87-A41-095-010		LED,SELS5B20C ORG
LED0501	87-A41-095-010		LED,SELS5B20C ORG
S0500	87-A90-164-080		SW,TACT SKQNAB(N)
S0501	87-A90-164-080		SW,TACT SKQNAB(N)
S0502	87-A90-164-080		SW,TACT SKQNAB(N)
S0503	87-A90-164-080		SW,TACT SKQNAB(N)
S0504	87-A90-164-080		SW,TACT SKQNAB(N)
S0505	87-A90-164-080		SW,TACT SKQNAB(N)
S0506	87-A90-164-080		SW,TACT SKQNAB(N)
S0507	87-A90-164-080		SW,TACT SKQNAB(N)
S0508	87-A90-164-080		SW,TACT SKQNAB(N)
S0509	87-A90-164-080		SW,TACT SKQNAB(N)
S0510	87-A90-164-080		SW,TACT SKQNAB(N)
S0511	87-A90-164-080		SW,TACT SKQNAB(N)
S0512	87-A90-164-080		SW,TACT SKQNAB(N)
S0513	87-A90-164-080		SW,TACT SKQNAB(N)
S0514	87-A90-164-080		SW,TACT SKQNAB(N)
S0515	87-A90-164-080		SW,TACT SKQNAB(N)

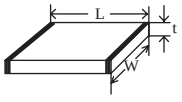
- Regarding connectors, they are not stocked as they are not the initial order items.
  The connectors are available after they are supplied from connector manufacturers upon the order is received.

○チップ抵抗部品コード／CHIP RESISTOR PART CODE

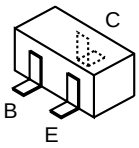
チップ抵抗部品コードの成り立ち
Chip Resistor Part Coding



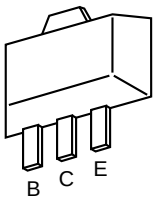
チップ抵抗
Chip resistor

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

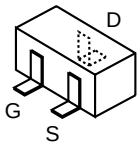
TRANSISTOR ILLUSTRATION



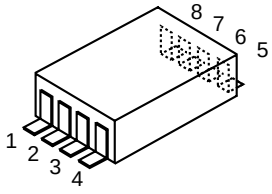
2SA1037
2SA1586
2SC2412
2SC3326
2SC4116
2SC4213
DTA114EK
DTA144EK
DTC144EK
DTC144EU



2SB1132

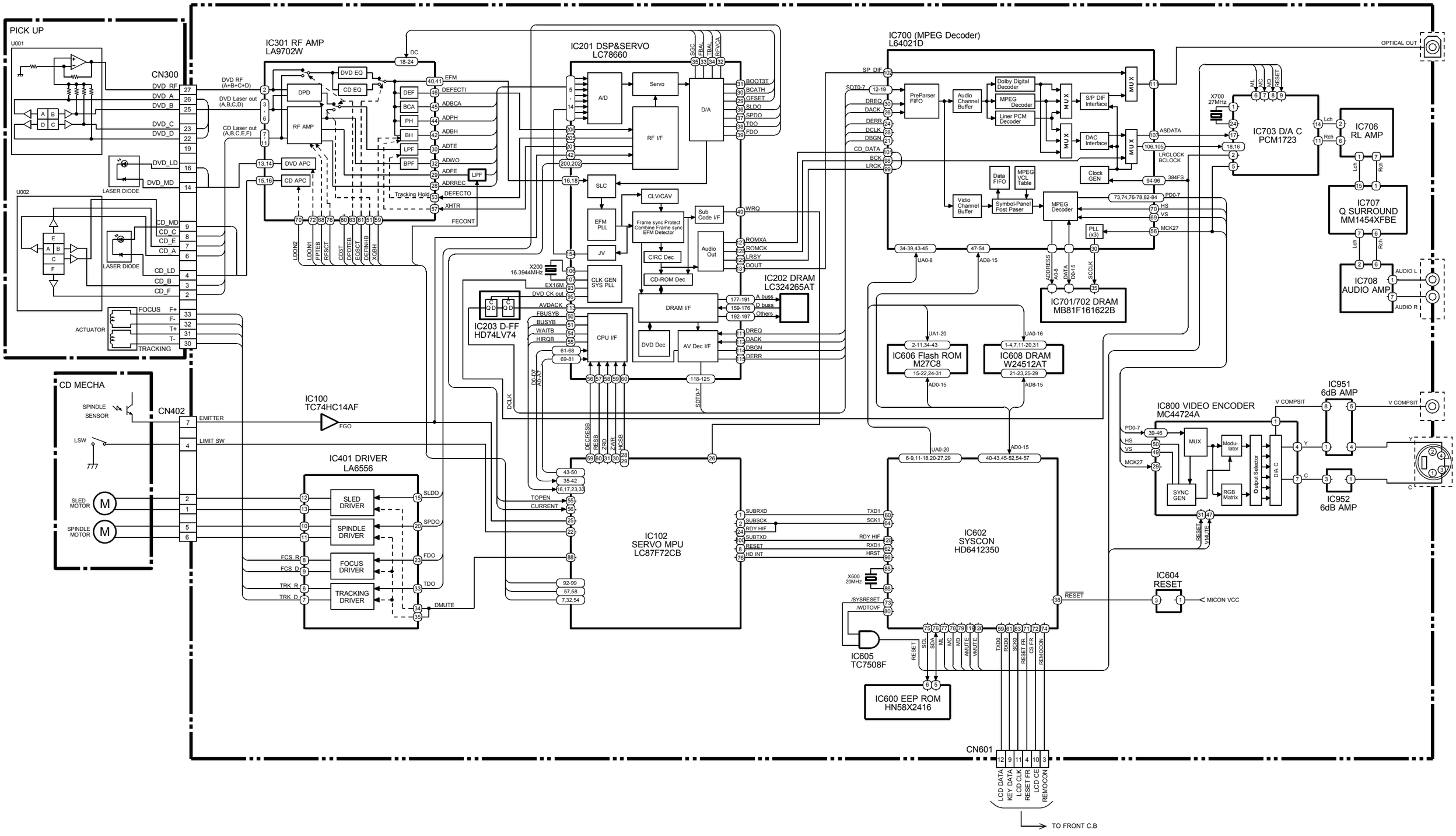


3LN01C



FTS1002

BLOCK DIAGRAM



MAIN C.B (BOTTOM VIEW)

COLOR	SCHEMATIC	DESCRIPTION
		DC IN
		MICON VCC
		D/D OUT
		A 5V-1
		A 5V-2
		RF VCC
		D 5V-3
		D 5V-2
		D 5V-5
		REG.+3.3V
		D 8V VCC
		D 3V
		2.5V
		2.5V-2
		GND

TO FE PROGRAM WRITING IIG

C346 R370 R362 R361 C336
C322 C341 R363 R342 R360
R334 R382 C339 R341 R359
C316 C348 C338 C333 R355

TO DECK C.B
CON2
CNA402

IC950
OPTICAL
DIGITAL OUT

J951
R
AUDIO
L
LINE OUT

VIDEO

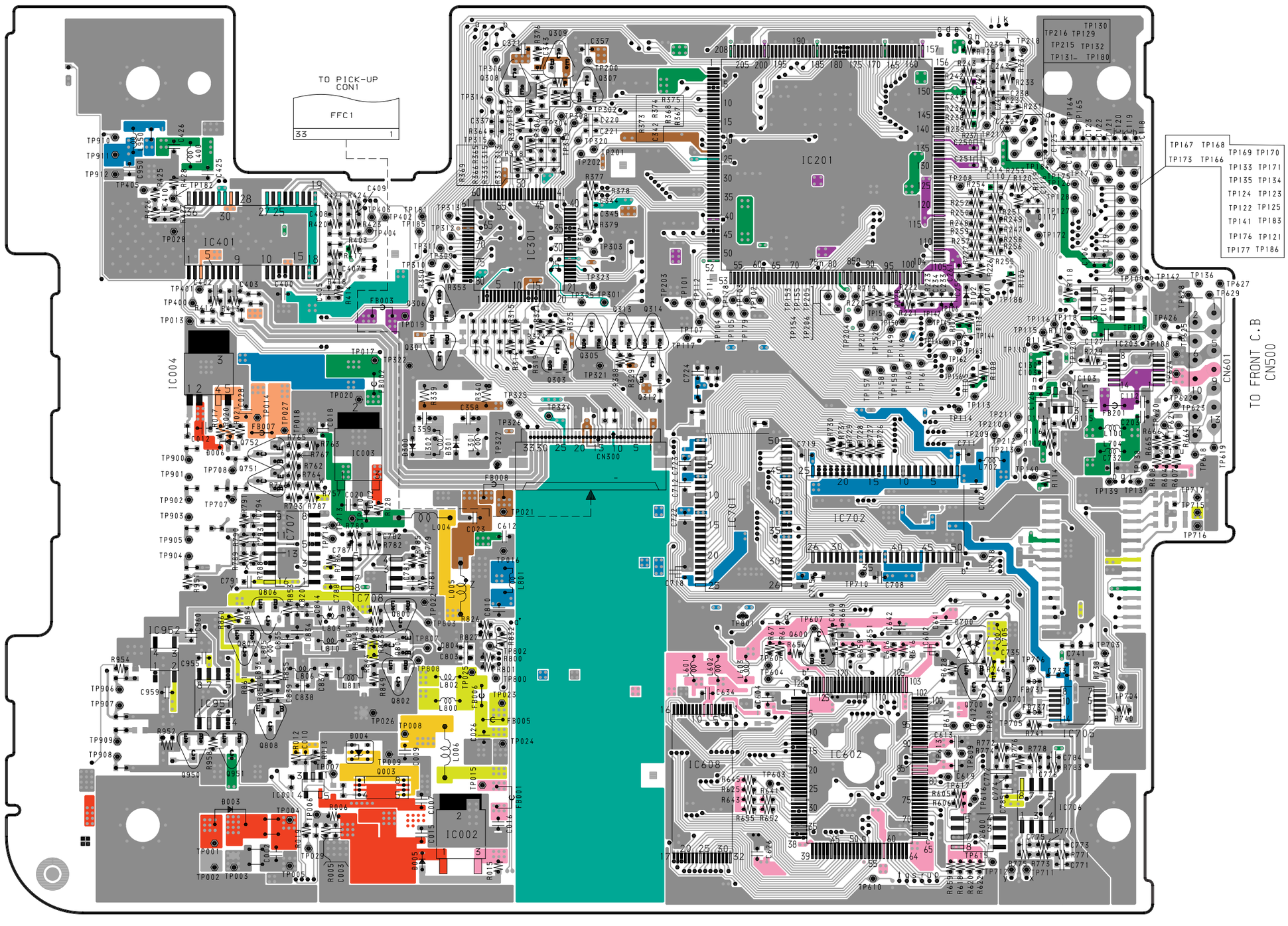
J950
S-VIDEO

J001
DC IN

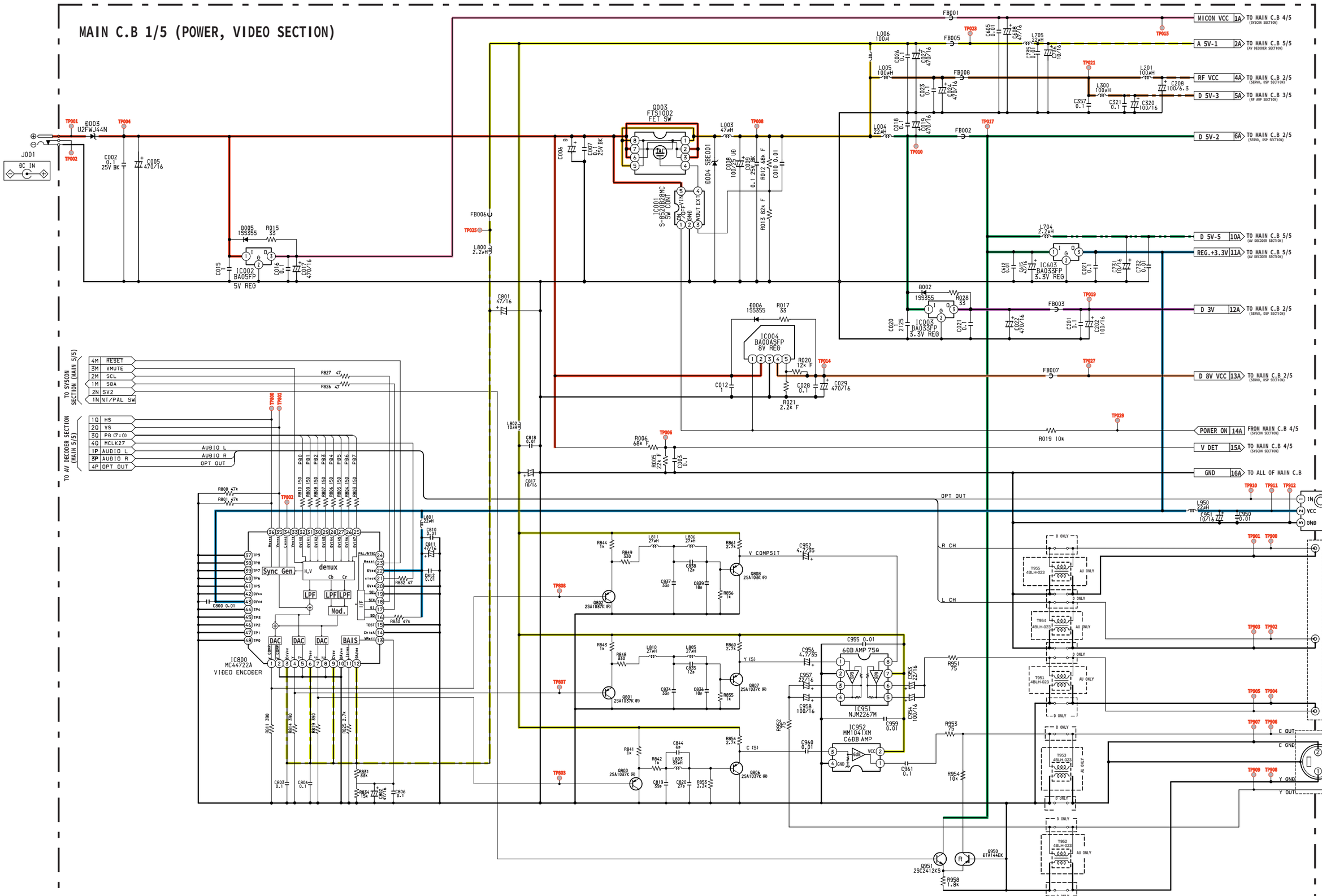
S601
OPEN
WHT
RED
2 1 CNA601

MAIN C.B (TOP VIEW)

※このワイヤリングは四層基板を表わしています。
■マーク，▲マーク，●a～z，a'～c'マークは通常の両面パターンと層内の（見えない）パターンとの接続状態を表わしています。
■マーク：+Bのパターンに接続されています。
▲マーク：GNDのパターンに接続されています。
●a～z，a'～c'：ジャンパーパターン（各アルファベット毎）に接続されています。

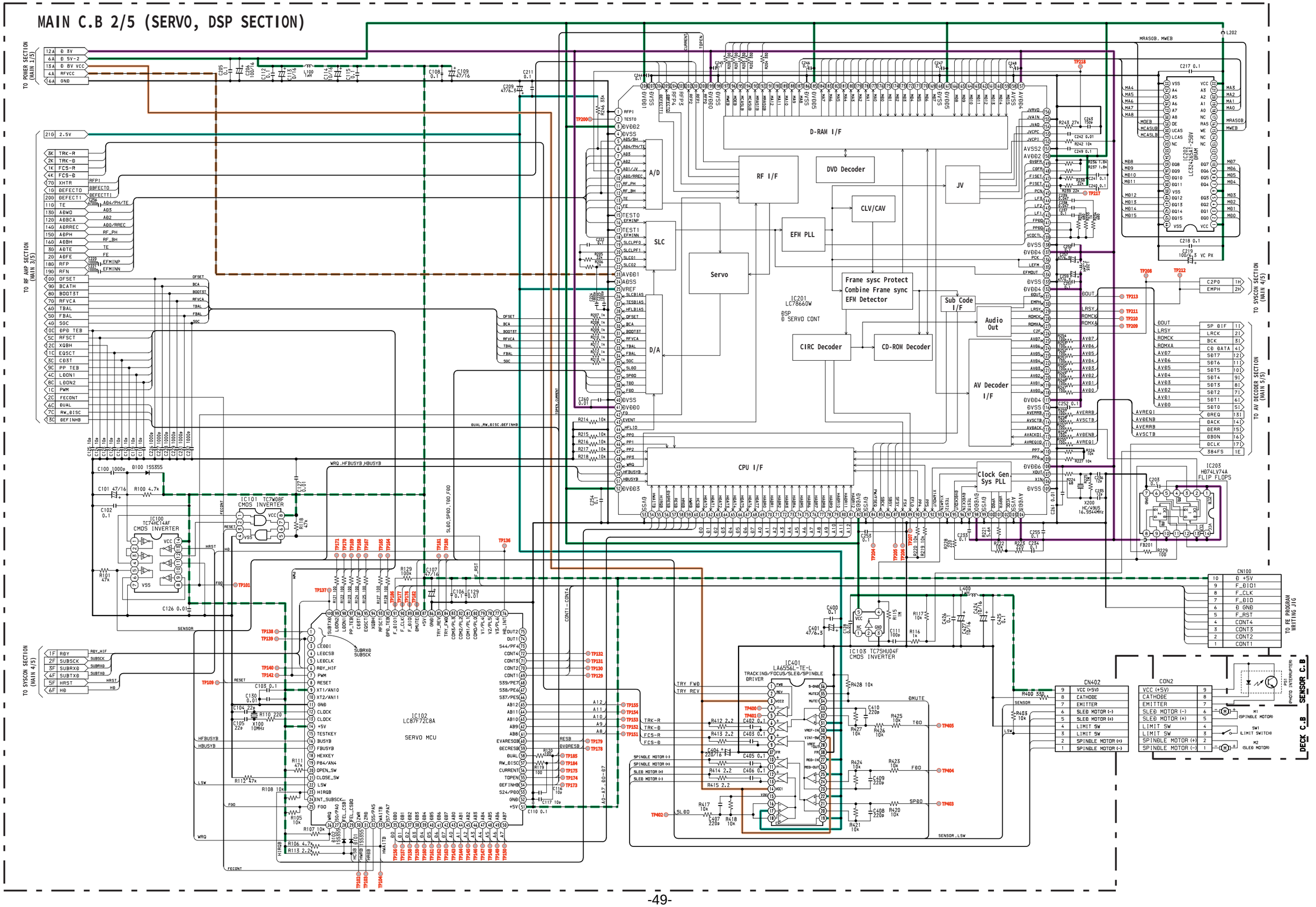


SCHEMATIC DIAGRAM - 1 (MAIN C.B -1/5)

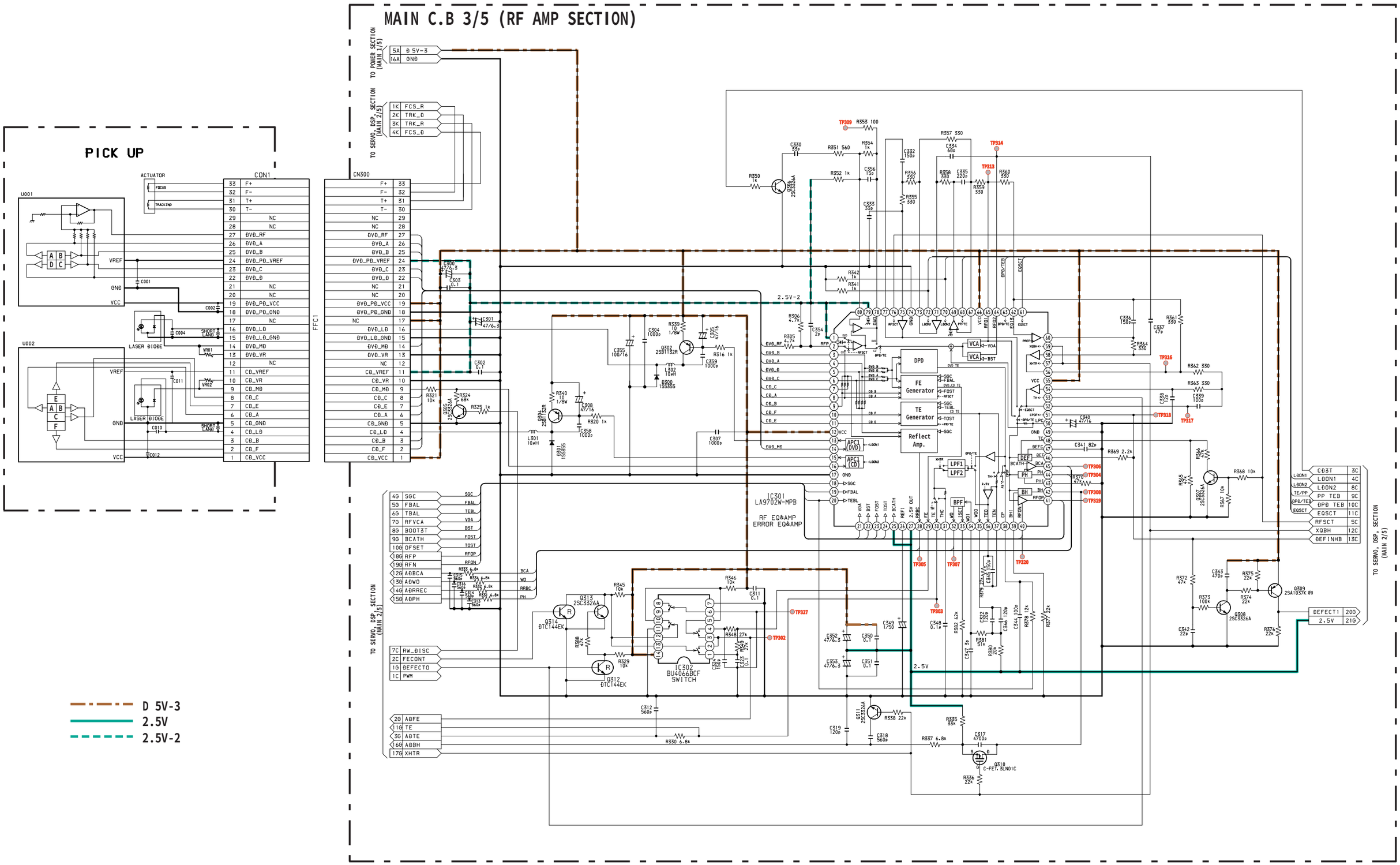


SCHEMATIC DIAGRAM - 2 (MAIN C.B -2/5)

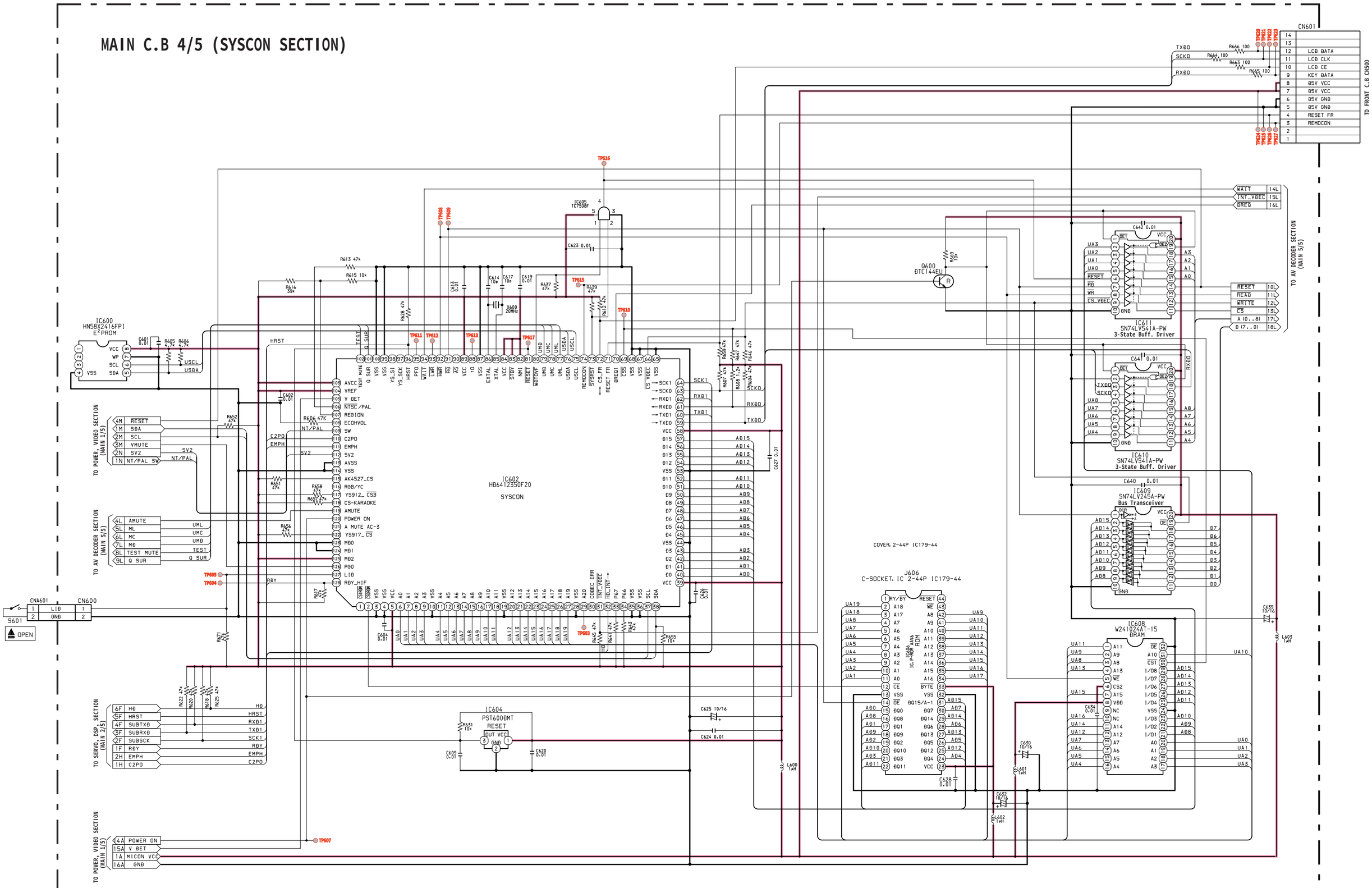
MAIN C.B 2/5 (SERVO, DSP SECTION)



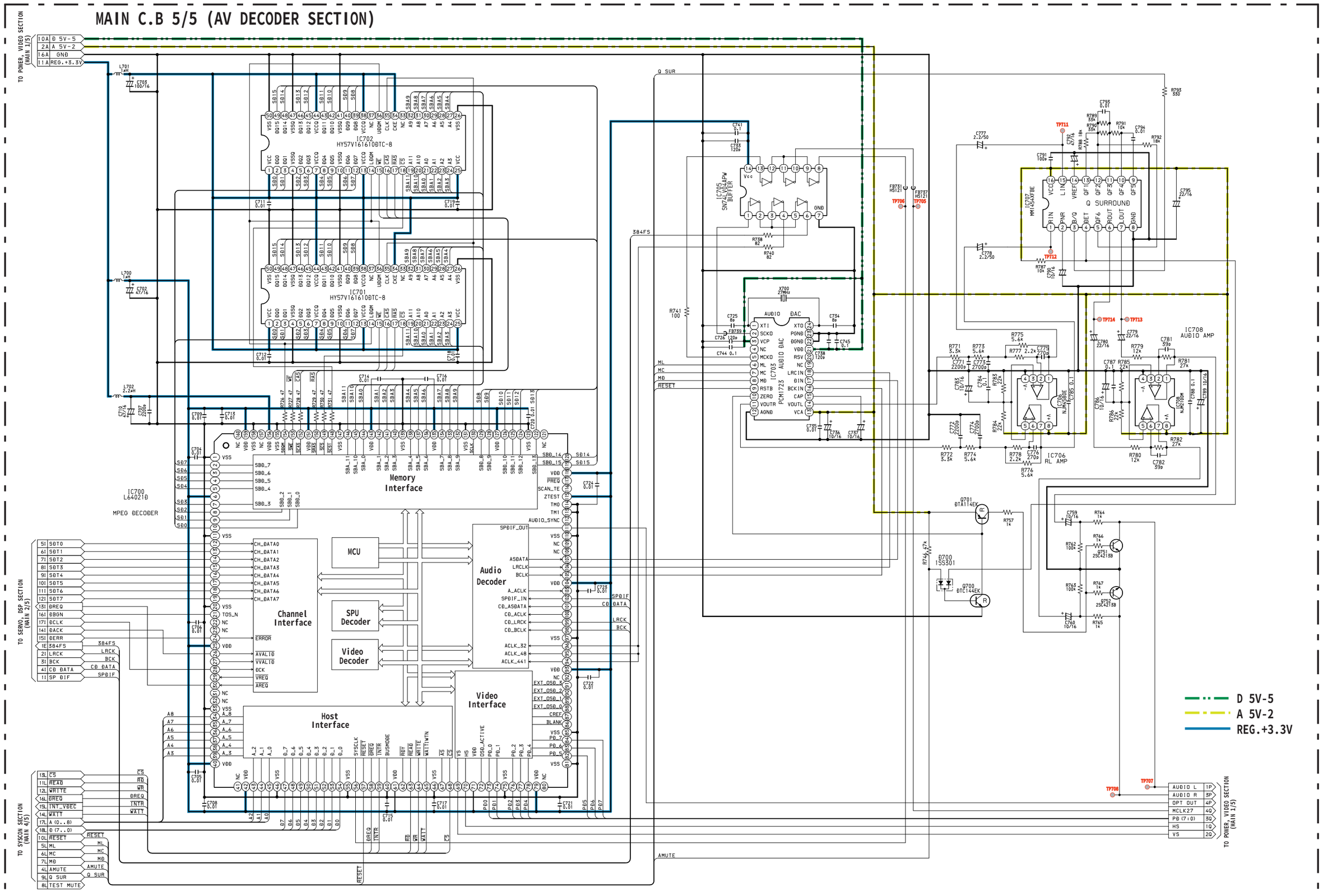
SCHEMATIC DIAGRAM - 3 (MAIN C.B -3/5)



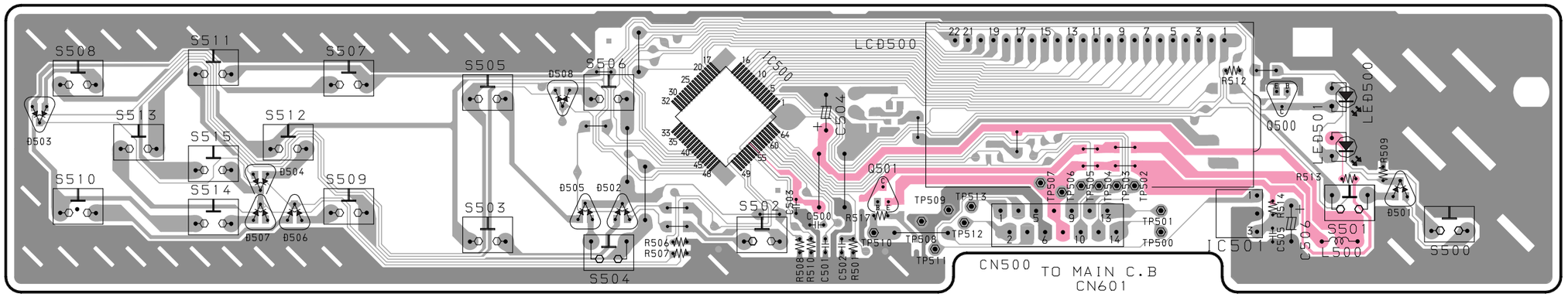
MAIN C.B 4/5 (SYSCON SECTION)



SCHEMATIC DIAGRAM - 5 (MAIN C.B -5/5)

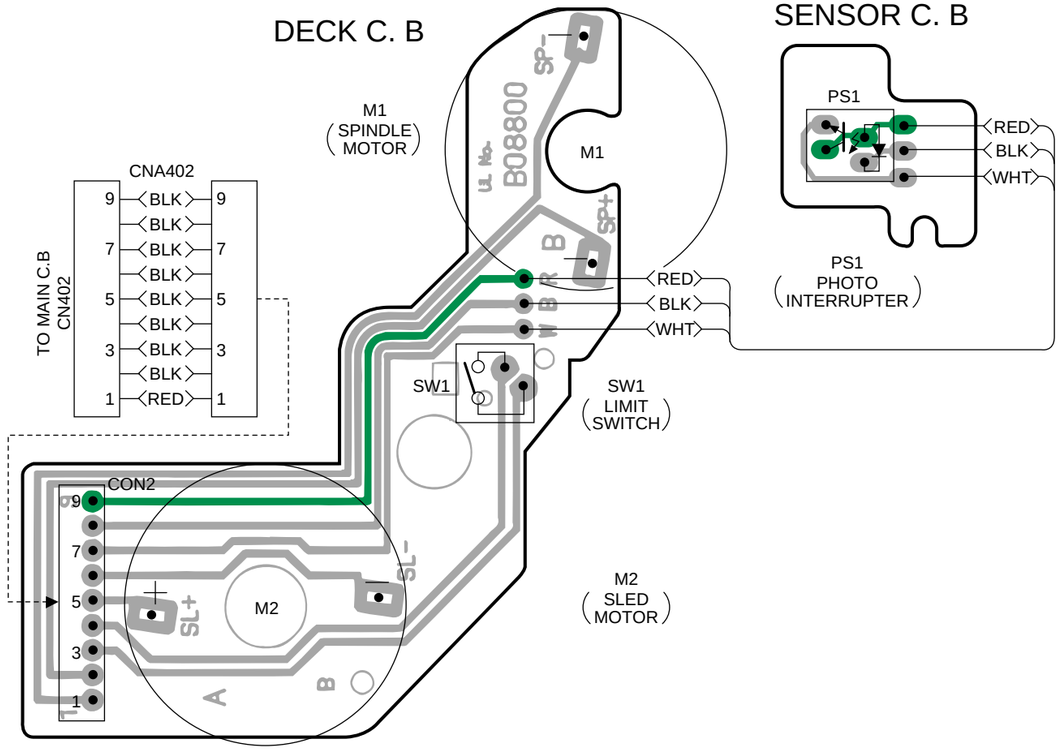


FRONT C.B



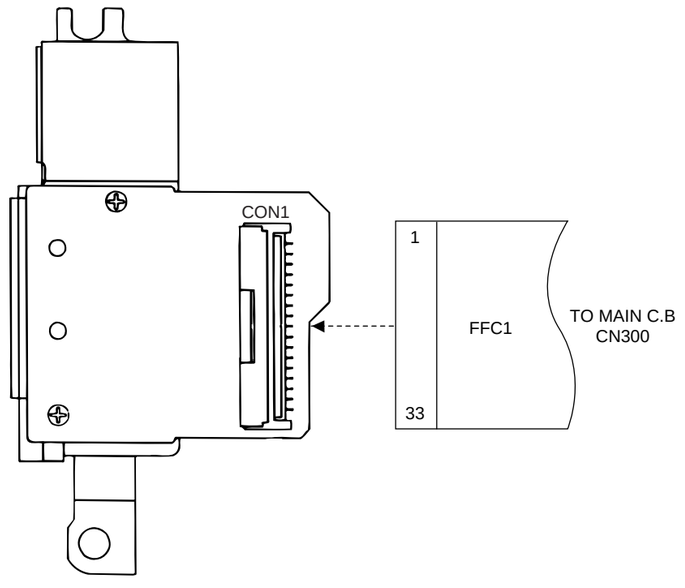
S508 MENU
S511 ▲
S507 TOP MENU
S505 F SKIP ▶▶|
S506 B SKIP |◀◀
S513 ▶
S515 ENTER
S512 ◀
IC501 (REMOTE SENSOR)
S501 OSĐ
S500 POWER
S510 SET UP
S514 ▼
S509 RETURN
S503 STOP ■
S504 PAUSE/STILL ❚❚
S502 PLAY ▷

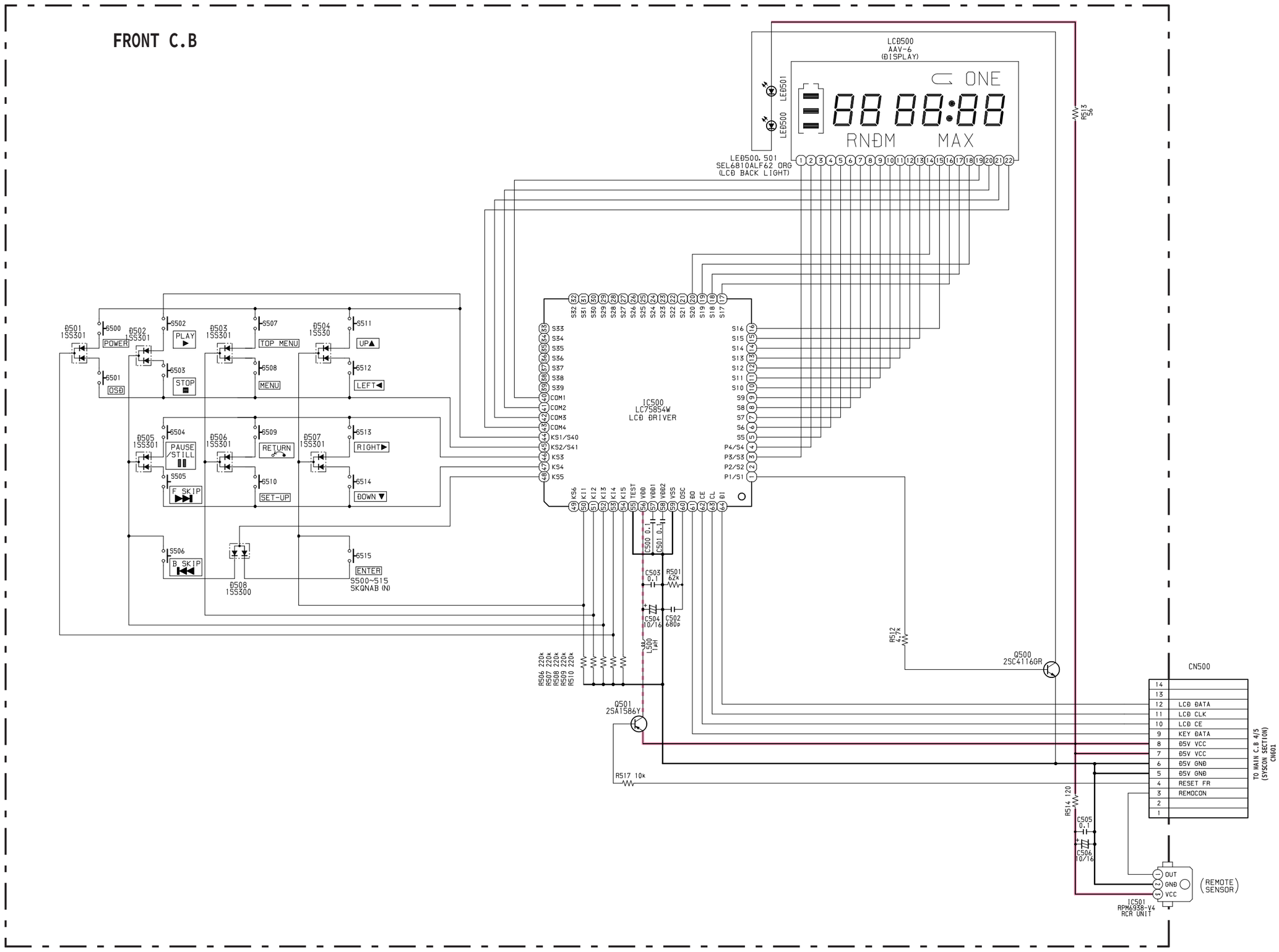
DECK C. B



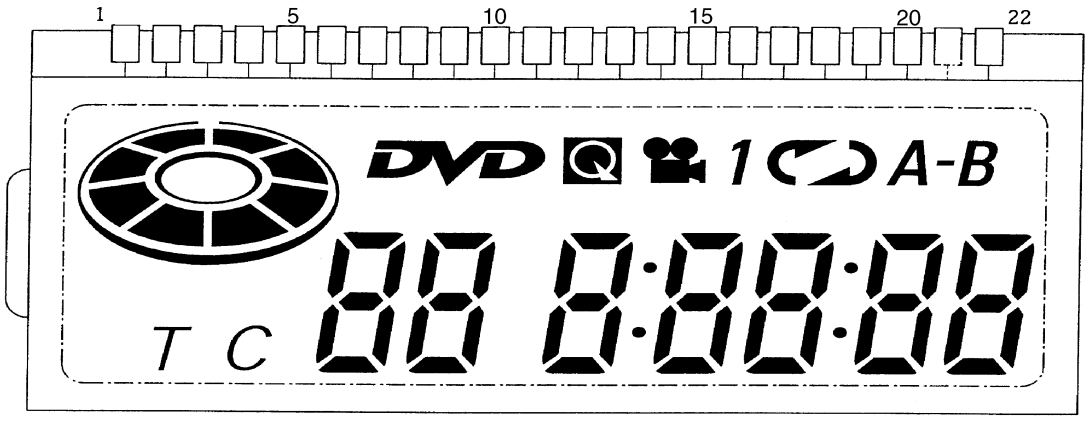
SENSOR C. B

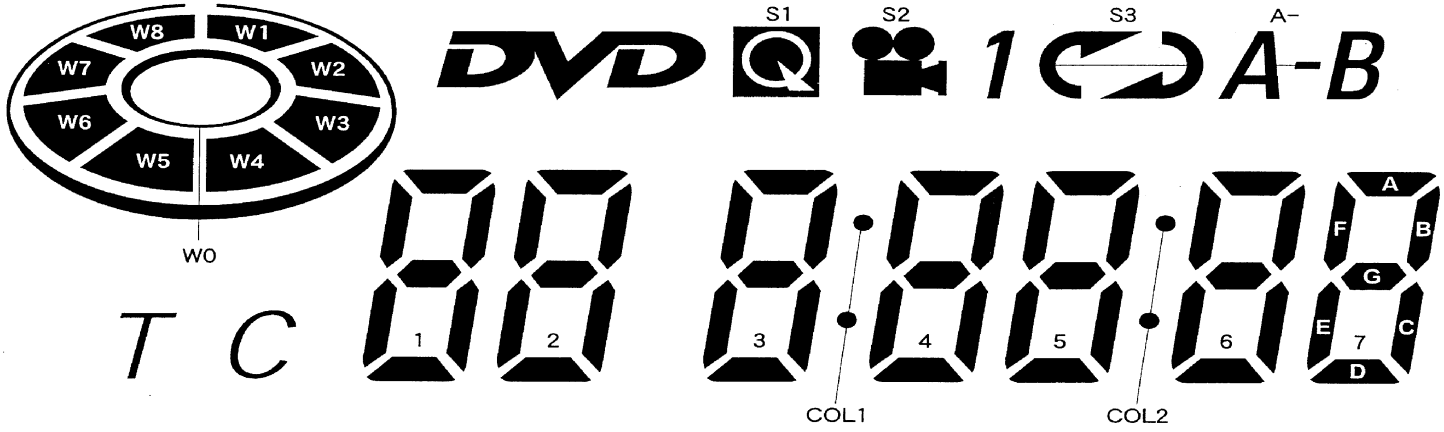
PICK-UP




FRONT C.B
LCD500
AAV-6
(DISPLAY)
ONE
RNDM
MAX
LED501
LED500
LED500.501
SEL6810ALF62 ORG
(LCD BACK LIGHT)
IC500
LC75854W
LCD DRIVER
D501 1SS301
D502 1SS301
D503 1SS301
D504 1SS30
D505 1SS301
D506 1SS301
D507 1SS301
S500 POWER
S501 OSD
S502 PLAY
S503 STOP
S504 PAUSE /STILL
S505 F SKIP
S506 B SKIP
S507 TOP MENU
S508 MENU
S509 RETURN
S510 SET-UP
S511 UP
S512 LEFT
S513 RIGHT
S514 DOWN
S515 ENTER
S500~515 SKQNAB (N)
D508 1SS300
C500 0.1
C501 0.1
C503 0.1
R501 62k
C504 10/16
C502 680p
L500 1uH
R506 220k
R507 220k
R508 220k
R509 220k
R510 220k
R512 47k
Q500 2SC4116GR
Q501 2SA1586Y
R517 10k
R514 120
C505 0.1
C506 10/16
CN500
LCD DATA
LCD CLK
LCD CE
KEY DATA
D5V VCC
D5V VCC
D5V GND
D5V GND
RESET FR
REMOCON
TO MAIN C.B 4/5
(SYSCON SECTION)
CN601
OUT
GND
VCC
(REMOTE SENSOR)
IC501
RPM6938-V4
RCR UNIT

LCD DISPLAY

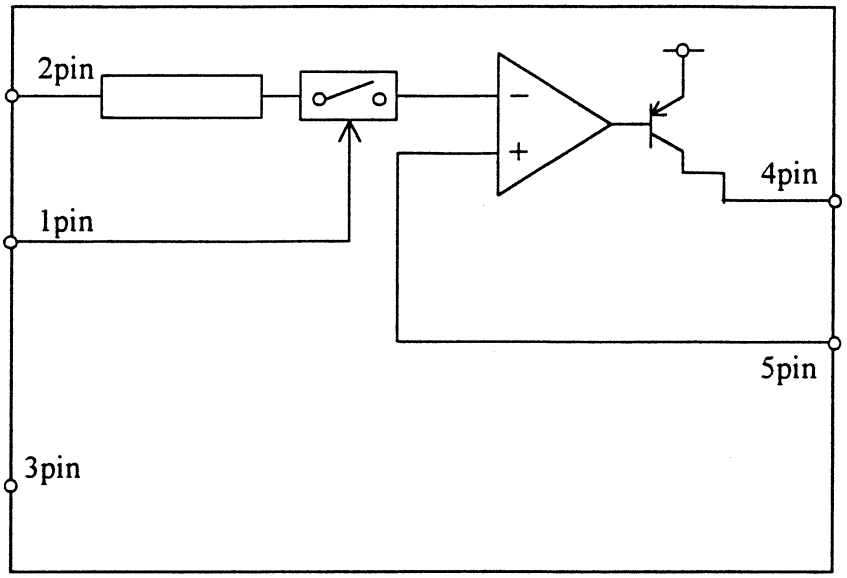




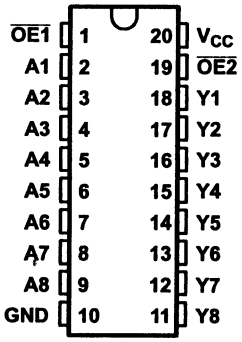
NO	COM1	COM2	COM3	COM4
1	W5	W6	W8	W7
2	W4	W3	W1	W2
3	W0	1F	1G	1E
4	1A	1B	1C	1D
5	DVD	2F	2G	2E
6	2A	2B	2C	2D
7	S1	3F	3G	3E
8	3A	3B	3C	3D
9	——	S2	COL1	C
10	——	4F	4G	4E
11	4A	4B	4C	4D
12	1	5F	5G	5E
13	5A	5B	5C	5D
14	——	S3	COL2	T
15	A-	6F	6G	6E
16	6A	6B	6C	6D
17	B	7F	7G	6E
18	7A	7B	7C	6D
19	COM1	——	——	——
20	——	COM2	——	——
21	——	——	COM3	——
22	——	——	——	COM4

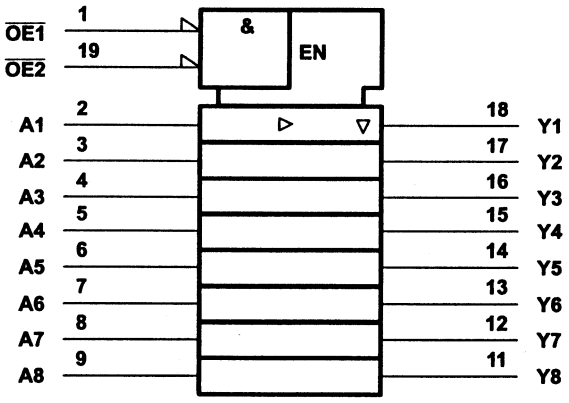
IC BLOCK DIAGRAM

IC, BA00ASFP



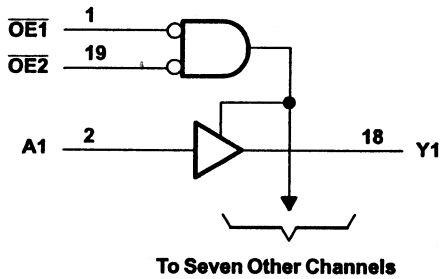
IC, SN74LV541APW



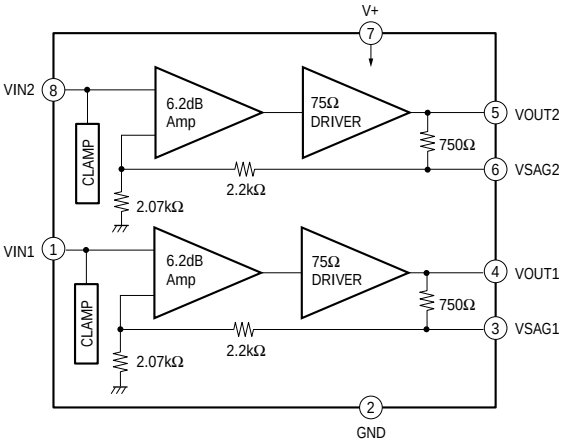


INPUTS			OUTPUT
$\overline{OE1}$	$\overline{OE2}$	A	Y
L	L	L	L
L	L	H	H
H	X	X	Z
X	H	X	Z

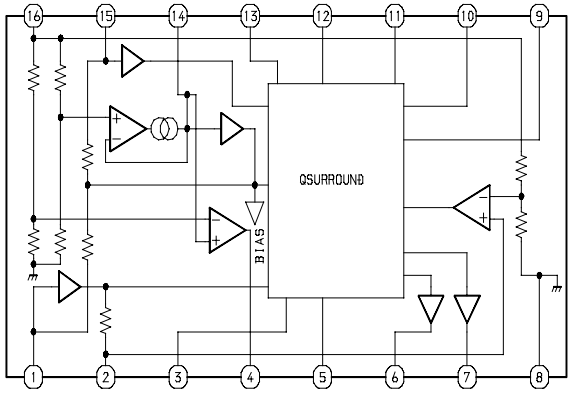
H : High level
L : Low level
X : Not designated
Z : High impedance condition



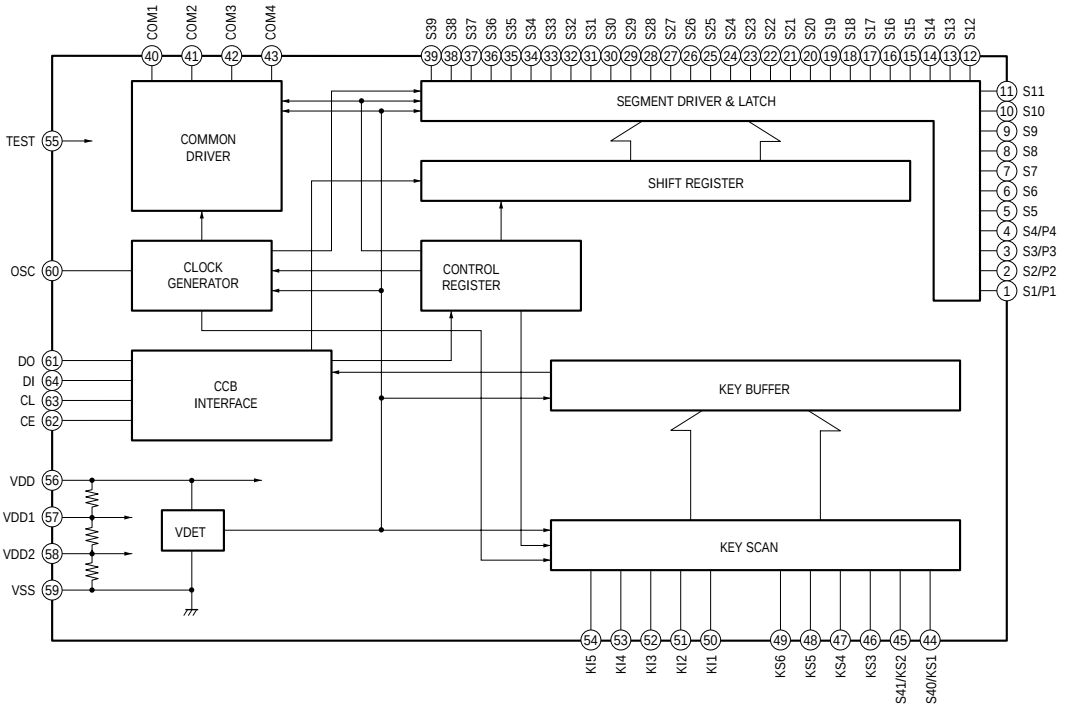
IC, NJM2267M



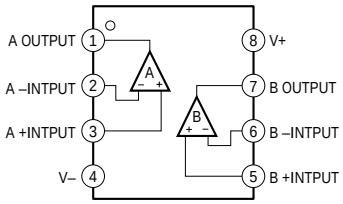
IC, MM1454XFBE



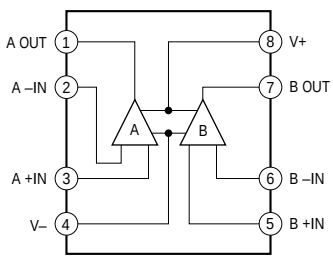
IC, LC75854W



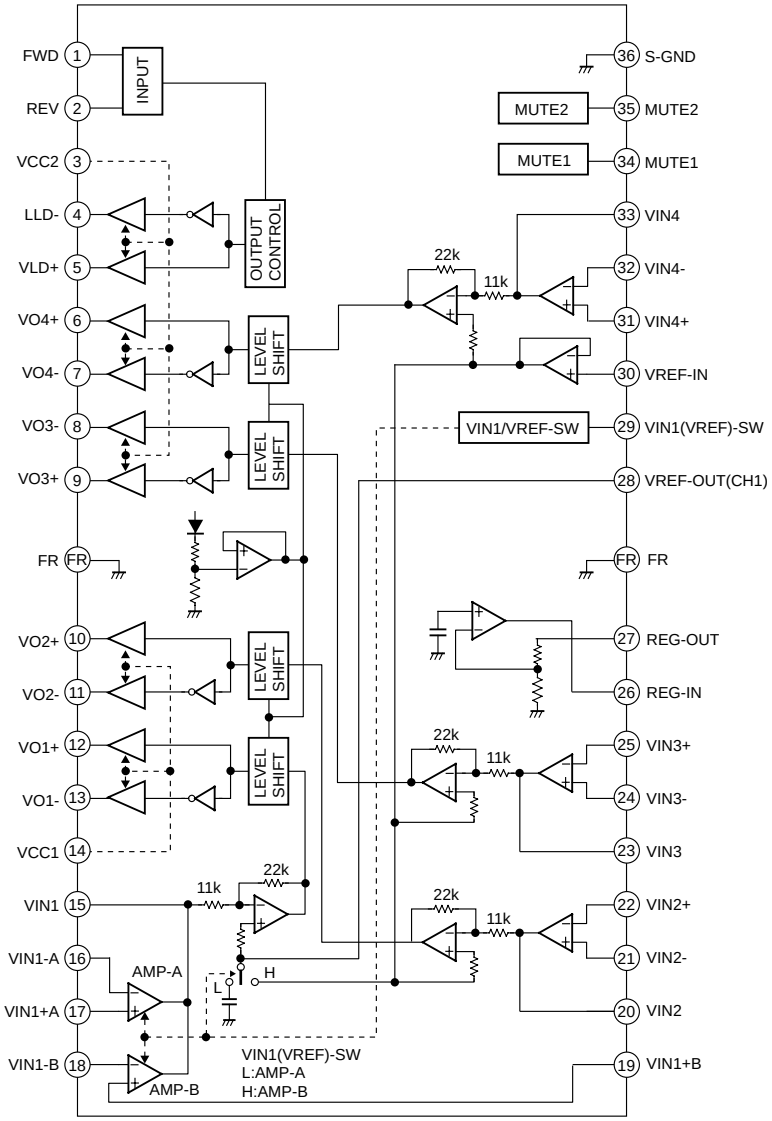
IC, NJM2100M



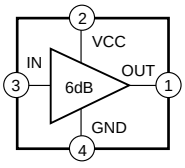
IC, NJM4580E



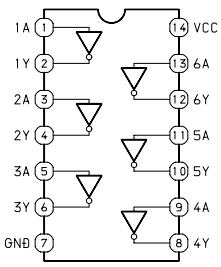
IC, LA6556L-TE-L



IC, MM1041XM



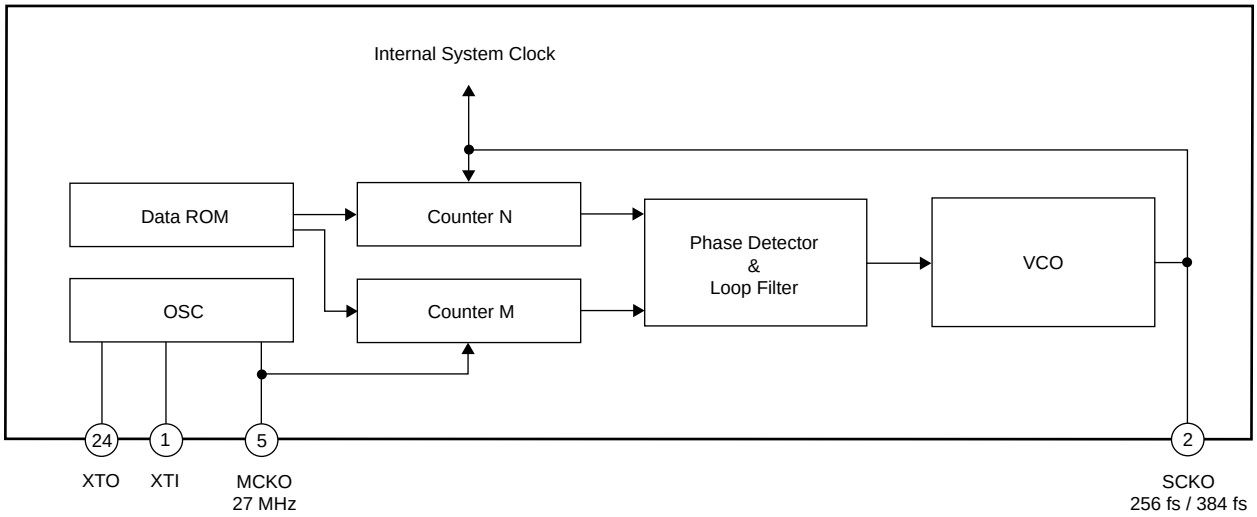
IC, TC74HC14AF



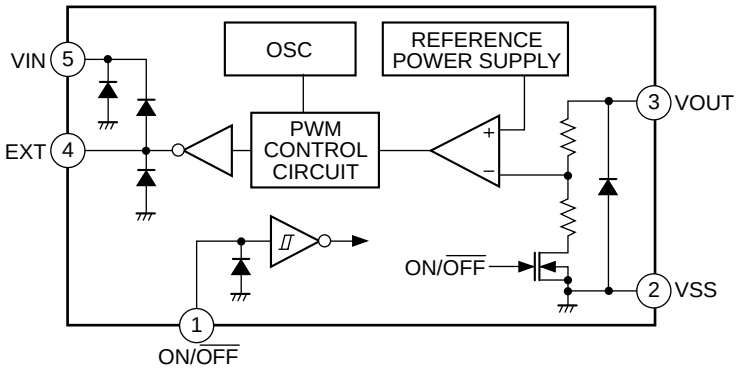
TRUTH TABLE

1A～6A	1Y～6Y
L	H
H	L

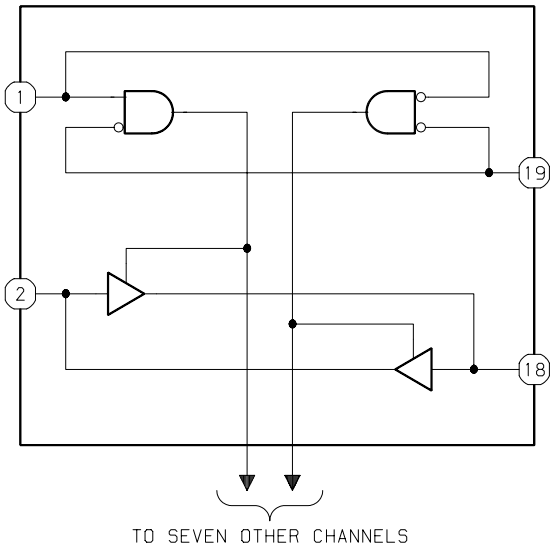
IC, PCM1723



IC, S-8520B28MC



IC, SN74LV245APW



IC DESCRIPTION

IC, MC44722AVFU

Pin No.	Pin Name	I/O	Description
1	CVBS/CB	O	Analog composite video signal or Cb signal output current drive (positive)
2	CVBS/CB	O	Analog composite video signal or Cb signal output current drive (negative)
3	CVBS/CBVDD		Power supply for CVBS/Cb DAC circuit
4	Y	O	Analog luminance signal output current drive (positive)
5	Y	O	Analog luminance signal output current drive (negative)
6	YVDD	–	Power supply for Y DAC circuit
7	C/CR	O	Analog signal output or Cr signal output drive (positive)
8	C/CR	O	Analog signal output or Cr signal output drive (negative)
9	CVDD	–	Power supply for C/Cr DAC circuit
10	DAVSS	–	Ground for DAC circuit
11	TBIAS	O	Reference current for the 3 DACs
12	DAVDD	–	Power supply for DAC current
13	VREF	–	Reference full scale voltage for the 3 DACs
14	CHIPA	I	12C chip address select (0 : 42(hex)/43(hex), 1 : IC(hex)/1D(hex)
15	TEST	I	TEST pin (Ground)
16	SO	O	If SPI mode, serial data output/If 12C mode, connect to ground
17	SDA/SI	I/O	Serial data input, open drain output. If SPI mode, serial data input.
18	SCL/SCK	I	Serial clock
19	SEL	I	Connect to ground. If SPI mode, this pin is chip select.
20	DVSS	–	Ground for digital circuit
21	CLOCK	I	27 MHz clock input
22	DVDD	–	Power supply for digital circuit
23	RESET	I	Reset signal (active Low)
24	PAL/NTSC	I	NTSC/PAL select. This pin active only reset time (NTSC: Low, PAL: High)
25 ~32	DVIA7 ~ 0	I	8-bit multiplexed Y/Cr/Cb 4:2:2 data (ITU-Rec656) input (DVIA), or multiplexed Y data (ITU-Rec656/601) input in 16-bit input mode (DVIA7: MSB)
33	VMUTE	I	Video mute on reset (0: normal, 1: mute), or test data input
34	C/FSYNC/VBI	I/O	Csync/frame sync output or external VBI information input
35	F/VSYNC	I/O	Frame sync or vertical sync input/output
36	HSYNC	I/O	Horizontal sync input/output
37	A/B SEL	I/O	Switch control for 8-bit X2 multiplexed Y/Cr/Cb 4:2:2 data (ITU-Rec656) input (DVIA) or (DVIB), or test data I/O
38 ~ 41	DVIB7 ~ 4	I/O	8-bit multiplexed 4:2:2 data (ITU-Rec656/601) input (2), or multiplexed Cr/Cb data (ITU-Rec656/601) input in 16-bit input mode (MSB DVIB 8), or test data I/O
42	DVSS	–	Ground for digital curcuit
43	DVDD	–	Power supply for digital circuit
44 ~ 47	DVIB3 ~ 0	I/O	8-bit multiplexed 4:2:2 data (ITU-Rec656/601) input (DVIB), or multiplexed Cr/Cb data (ITU-Rec656/601) input in 16-bit input mode (LSB DVIB), or test data I/O
48	TP	I/O	for test (should be ground)

IC, L64021D

Pin No.	Pin Name	I/O	Description
1	VSS	I	Ground.
2 ~ 5	SBD_7 ~ 4	I/O	SDRAM data bus 7 ~ 4.
6	VDD	I	Power (3.3V).
7 ~ 10	SBD_3 ~ 0	I/O	SDRAM data bus 3 ~ 0.
11	VSS	I	Ground.
12 ~ 19	CH_DATA_0 ~ 7	I	Channel data bus 0 ~ 7.
20	VSS	I	Ground.
21	TOS	I	Top of sector.
22, 23	NC	I	Not connected.
24	ERROR	I	Error.
25	VDD	I	Power (3.3V).
26	AVALID	I	Audio data valid.
27	VVALID	I	Video data valid.
28	DCK	I	Data clock.
29	VREQ	O	Video transfer request.
30	AREQ	O	Audio transfer request.
31, 32	NC	—	Not connected.
33	VSS	I	Ground.
34 ~ 39	A_8 ~ 3	I	Address 8 ~ 3.
40	VDD	I	Power (3.3V).
41	NC	—	Not connected.
42	VDD	I	Power (3.3V).
43 ~ 45	A_2 ~ 0	I	Address 2 ~ 0.
46	VSS	I	Ground.
47 ~ 54	D_7 ~ 0	I/O	Host data bus 7 ~ 0.
55	VSS	I	Ground.
56	SYSCLK	I	System clock.
57	RESET	I	Reset.
58	DREQ	O	DMA transfer request.
59	INTR	O	Interrupt.
60	BUSMODE	I	Busmode.
61	VDD	I	Power (3.3V).
62	RDY	O	Ready.
63	READ	I	Read indicator.
64	WRITE	I	Write indicator.
65	WAIT/WTN	I/O	Wait.
66	VSS	I	Ground.
67	NC	—	Not connected.
68	CS	I	Chip select.
69	VS	I	Vertical synchronization.
70	HS	I	Horizontal synchronization.

Pin No.	Pin Name	I/O	Description
71	VDD	I	Power (3.3V).
72	OSD_ACTIVE	O	On screen display active.
73, 74	PD_0, 1	O	Pixel data output bus 0, 1.
75	VSS	I	Ground.
76-78	PD_2-4	O	Pixel data output bus 2-4.
79	VDD	I	Power (3.3V).
80	NC	—	Not connected.
81	VSS	I	Ground.
82 ~ 84	PD_5 ~ 7	O	Pixel data output bus 5 ~ 7.
85	VSS	I	Ground.
86	BLANK	O	Blank (composite).
87	CREF	O	Chroma reference for pixel data.
88 ~ 91	EXT_OSD_0 ~ 3	I	External OSD palette selection bus 0 ~ 3.
92	NC	O	Not connected.
93	VDD	I	Power (3.3V).
94	ACLK_441	I	Audio input clock for 44.1kHz*N.
95	ACLK_48	I	Audio input clock for 48kHz*N.
96	ACLK_32	I	Audio input clock for 32kHz*N.
97	VSS	I	Ground.
98	CD_BCLK	I	CD-Serial DAC bit clock.
99	CD_LRCLK	I	CD-Left right clock.
100	CD_ACLK	I	CD-External audio clock.
101	CD_ASDATA	I	CD-Audio serial data line.
102	SPDIF_IN	I	Sony/Philips data interface-input.
103	A_ACLK	O	Output audio clock.
104	VDD	I	Power (3.3V).
105	BCLK	O	Serial DAC bit clock.
106	LRCLK	O	Serial DAC left right clock.
107	ASDATA	O	Audio serial data line.
108, 109	NC	O	Not connected.
110	VSS	I	Ground.
111	SPDIF_OUT	O	Sony/Philips data interface output.
112	AUDIO_SYNC	O	Audio sync strobe.
113, 114	TM1, TM0	I	Test mode 1, 0.
115	ZTEST	I	Test mode pin.
116	SCAN_TE	I	Scan test mode pin.
117	PREQ	O	PCM FIFO request.
118	VDD	I	Power (3.3V).
119, 120	SBD_15, 14	I/O	SDRAM data bus 15, 14.
121	NC	—	Not connected.
122	SBD_13	I/O	SDRAM data bus 13.

Pin No.	Pin Name	I/O	Description
123	VSS	I	Ground.
124 ~ 126	SBD_12 ~ 10	I/O	SDRAM data bus 12 ~ 10.
127	VDD	I	Power (3.3V).
128, 129	SBD_9, 8	I/O	SDRAM data bus 9, 8.
130	SCLK	I/O	SDRAM 81MHz clock.
131	VSS	I	Ground.
132 ~ 134	SBA_9 ~ 7	O	SDRAM address bus 9 ~ 7.
135	VDD	I	Power (3.3V).
136 ~ 138	SBA_6 ~ 4	O	SDRAM address bus 6 ~ 4.
139	VSS	I	Ground.
140 ~ 142	SBA_3 ~ 1	O	SDRAM address bus 3 ~ 1.
143	VDD	I	Power (3.3V).
144	SBA_0	O	SDRAM address bus 0.
145, 146	SBA_10, 11	O	SDRAM address bus 10, 11.
147	VSS	I	Ground.
148	SCS1	O	Chip select for second DRAM.
149	SCS	O	Chip select for SDRAM.
150	SRAS	O	SDRAM row address strobe.
151	VDD	I	Power (3.3V).
152	SCAS	O	SDRAM column address strobe.
153	SWE	O	SDRAM write enable.
154	SDQM	O	SDRAM control pin.
155	VSS	I	Ground.
166	PLLVDD	I	Power-phase locked loop for SDRAM.
157	NC	—	Not connected.
158	PLLVSS	I	Phase locked-loop ground pin.
159	VDD	I	Power (3.3V).
160	NC	—	Not connected.

IC, HD6412350F20

Pin No.	Pin Name	I/O	Description
1	CS1ROM	—	Not used.
2	CS0ROM	O	Chip select output terminal for ROM.
3, 4	VSS	I	GND.
5	VCC	I	Power input terminal. EVER 5 V.
6 ~ 9	A0 ~ 3	O	Address bus output terminal.
10	VSS	I	GND.
11 ~ 18	A4 ~ 11	O	Address bus output terminal.
19	VSS	I	GND.
20 ~ 27	A12 ~ 19	O	Address bus output terminal.
28	VSS	I	GND.
29	A20	O	Not used.
30	CODEC_ERR	—	Not used.
31	INT_VDEC	I	Interrupt signal for AV DECODER IC.
32	HD_INT	I	Interrupt signal from LOADER.
33, 34	P67, 66	—	Not used.
35, 36	VSS	I	GND.
37	SCL	O	EEPROM serial clock output.
38	SDA	I/O	EEPROM serial data I/O.
39	VCC	I	Power input terminal. EVER 5 V.
40 ~ 43	D0 ~ 3	I/O	Data bus input/output terminal.
44	VSS	I	GND.
45 ~ 52	D4 ~ 11	I/O	Data bus input/output terminal.
53	VSS	I	GND.
54 ~ 57	D12 ~ 15	I/O	Data bus input/output terminal.
58	VCC	I	Power input terminal. EVER 5 V.
59	TXD0	O	Data output terminal for FL DRIVER IC serial communication control.
60	TXD1	O	Data output terminal for LOADER serial communication control.
61	RXD0	I	Data input terminal for FL DRIVER IC serial communication control.
62	RXD1	I	Data input terminal for LOADER serial communication control.
63	SCK0	O	Clock output terminal for FL DRIVER IC serial communication control.
64	SCK1	O	Clock output terminal for LOADER serial communication control.
65	VSS	I	GND.
66	CS VDEC	O	Chip select output terminal for AV DECODER IC.
67, 68	VSS	I	GND.
69	CS5	O	Chip select output terminal for SRAM.
70	DREQ1	I	MPEG decoder data request.
71	RESET FR	O	Reset for Front Board.
72	CS_FR	O	FL DRIVER IC chip select output terminal.
73	SYSRST	O	System reset signal output terminal.
74	REMOCON	I	Remote control signal input terminal.
75	USCL	O	I^2C clock output terminal for EEPROM, video encoder IC.

Pin No.	Pin Name	I/O	Description
76	USDA	I/O	I^2C data input/output terminal for EEPROM, video encoder IC.
77	UML	O	Data enable signal output terminal for AUDIO DAC IC control.
78	UMC	O	Clock for AUDIO DAC IC control.
79	UMD	O	Data output terminal for AUDIO DAC IC control.
80	WDTOVF	O	Watch dog timer overflow signal output terminal.
81	RESET	I	Micro processor reset input terminal.
82	NMI	I	Fixed is to “H”.
83	STBY	I	
84	VCC	I	Power input terminal. EVER 5 V.
85	XTAL	I	Crystal oscilator input terminal. 20 MHz.
86	EXTAL	I	
87	VSS	I	GND.
88	fO	—	Not used. (System clock output for external device.)
89	VCC	I	Power input terminal. EVER 5 V.
90	AS	—	Not used. (Address strobe.)
91	RD	O	Lead signal output terminal for bus control.
92	HWR	O	“H” write signal output terminal for bus control.
93	LWR	O	“L” write signal output terminal for bus control.
94	WAIT	O	Bus request output terminal.
95	PFO	—	Not used. (Bus request acknowlege.)
96	HRST	O	Reset signal output terminal for LOADER.
97, 98	YS SCK, YS SI	—	Not used.
99, 100	VSS	I	GND.
101	Q_SURROUND	O	Q SURROUND IC control terminal. ON = H OFF = L.
102	TEST MUTE	—	Not used.
103	AVCC	I	Power supply input terminal for A/D. EVER 5V.
104	VREF	I	Reference voltage input terminal for A/D. EVER 5V.
105	V-DET	—	Not used.
106	NTSC/PAL	I	NTSC: L, PAL: H (for DVD output)
107	REGION	I	DVD REGION CODE, 1: 0 ~ 1 V, 2: 1 ~ 2 V, 3: 2 ~ 3 V, 4: 3 ~ 4 V, 5: 4 ~ 5 V.
108	ECOHVOL	I	Karaoke echo volume control 0 ~ 5 V.
109	SW	I	NTSC/PAL serect (for VIDEO CD) (Not used).
110	C2PO	—	Not used.
111	EMPH	—	Not used.
112	SV2	O	Voltage output for S2 terminal. S1 = 5V S2 = 2.5 V Normally = 0 V.
113	AVSS	I	GND.
114	VSS	I	
115	AK4527CS	—	Not used. (pull up)
116	RGB/YC	—	Not used.
117	YS912 CBS	—	Not used. (pull up)
118	CS-KARAOKE	—	Not used. (pull up)

Pin No.	Pin Name	I/O	Description
119	AMUTE	O	Audio signal (analog audio) output mute control terminal ON = H OFF = L.
120	POWER ON	O	Power supply control terminal ON = H OFF = L.
121	A MUTE AC-3	—	Not used.
122	YS917 CS	—	Not used,
123, 124	MD0, 1	I	Operation mode control Fixed to L.
125	MD2	I	Operation mode control Fixed to H.
126	PG0	—	Not used. (VMUTE control)
127	LID	I	OPEN/CLOSE sensor
128	RDY HIF	I	Front END µcom RDY

IC, LC87F72C8A

Pin No.	Pin Name	I/O	Description
1	SUBRXD	I	DATA input terminal for LOADER serial communication control.
2	SUBSCK	I	Clock input terminal for LOADER serial communication control.
3	LEDD1	O	Detection of LEDD1.
4	LEDCSB	O	Detection of LEDCSB.
5	LEDCLK	O	Detection of LEDCLK.
6	RDY_HIF	O	LOADER READY signal output terminal.
7	PWM	O	Detection of PWM.
8	RESET	I	Reset signal input terminal.
9	XT1/AN10	I	Input for 32.768kHz crystal oscillation. AD input port: AN10. (Connected to power supply)
10	XT2/AN11	I/O	Out put for crystal oscillation. AD input port: AN11. (Not Connected)
11	GND	—	GND.
12	CLOCK	I	In put for 10MHz crystal oscillation.
13	CLOCK	O	Out put for 10MHz crystal oscillation.
14	+5V	—	Power supply 5V.
15	TESTKEY	O	TESTKEY output pin.
16	BUSYB	I	DSP command dispose busy signal input pin.
17	FBUSYB	I	DSP command receiver busy signal input pin.
18	HEXKEY	O	Detection of HEXKEY.
19	P84/AN4	O	Detection of P84/AN4.
20	OPEN_SW	O	Detection of OPEN SW.
21	CLOSE_SW	O	Detection of CLOSE SW pin.
22	LSW	I	LIMIT SW input pin.
23	HIRQB	I	Interrupt signal input pin.
24	INT_SUBSCK	I	Clock input terminal for LOADER serial communication control.
25	FGO	I	SENSER input.
26	WRQ	I	Subcode Q read ready monitor input.
27	S0/PA0	O	LCD display segment output. (Not Connected)
28	FEL_CSBI	O	Chip select signal output pin.
29	FEL_CSBO	O	Chip select signal output pin.
30	ZWR	O	Write signal output pin.
31	ZRD	O	Read signal output pin.
32	S5/PA5	O	FECONT control output pin.
33	WAITB	I	Wait signal input pin.
34	S7/PA7	I/O	Detection of S7/PA7.
35 ~ 42	DB0 ~ 7	I/O	Data 0 ~ 7.
43 ~ 50	AB0 ~ 7	O	Address 0 ~ 7.
51	+5V	—	Power supply 5V.
52	GND	—	GND.
53	S24/PD0	O	Detection of S24/PD0.
54	DEFINHB	O	DEFINHB control output.
55	TOPEN	I	RF general-purpose port output pin 0.

Pin No.	Pin Name	I/O	Description
56	CURRENT	I	RF general-purpose port output pin 2.
57	RW_DISC	O	RW DISC control output pin.
58	DUAL	O	DUAL control output pin.
59	DECRESB	O	Decoder reset output pin.
60	EVARESOB	O	System reset output pin.
61 ~ 65	AB8-12	O	Address 8-12.
66-68	S37-39/PE5 ~ 7	O	Detection of S37-39/PE5 ~ 7.
69 ~ 72	CONT1-4	O	CONT1-4 output pin.
73	S44/PF4	O	Detection of S44/PF4.
74, 75	OUT 1, 2	O	Detection of OUT 1, 2.
76	HD_INT	O	Interropt signal for AV DECODER IC/TEST PIN.
77 ~ 79	V3-1/PL6 ~ 4	O	Detection of V3-1/PL6 ~ 4.
80 ~ 83	COM0-3/PL0 ~ 3	O	Detection of COM0-3/PL0 ~ 3.
84	TRY_FWD	O	TRY control output.
85	TRY_REV	O	TRY control output.
86	GND	—	GND.
87	+5V	—	Power supply pin (+).
88	DMUTE	O	MUTE output pin.
89	F_DIO	O	F_DIO output pin.
90	F_CLK	O	F_CLK output pin.
91	F_DIOI	O	F_DIOI output pin.
92	DPD_TEB	O	DPD_TEB output.
93	RFSCT	O	RFSCT control output.
94	XQBH	O	XQBH out put. (Not Connected)
95	EQSCT	O	EQSCT output.
96	CD3T	O	CD3T control output.
97	PP_TEB	O	PP TEB output.
98, 99	LDON1, 2	O	LDON 1, 2 output.
100	SUBTXD	O	DATA output terminal for LOADER serial communication control.

IC, LC78660W

Pin No.	Pin Name	I/O	Description
1	RFPI	I	RF input port pin. (Pull down)
2	TEST0	I/O	Tracking margin signal I/O pin.
3	DVDD2	—	A/D D/A internai logic power supply. [Digital 5V]
4	DVSS	—	Digital GND.
5	AD5/BH	I	Servo A/D input pin. (AD5: Assistant input 5)
6	AD4/PH/TE	I	Servo A/D input pin. (AD4: Assistant input 4)
7	AD3	I	Servo A/D input pin. (AD3: Assistant input 3)
8	AD2	I	Servo A/D input pin. (AD2: Assistant input 2)
9	AD1/JV	I	Servo A/D input pin. (AD1: Assistant input 1)
10	AD0/RREC	I	Servo A/D input pin. (AD0: Assistant input 0)
11	RF_PH	I	Servo A/D input pin. (RF_PH: RF peak hold signal)
12	RF_BH	I	Servo A/D input pin. (RF_BH: RF bottom hold signal)
13	TE	I	Servo A/D input pin. (TE: Tracking error signal)
14	FE	I	Servo A/D input pin. (FE: Focus error signal)
15	TEST0	I	Test input pin 0. (L Fixed)
16	EFMINP	I	EFM/EFM+input pin.
17	TEST1	I	Test input pin 1. (L Fixed)
18	EFMINN	I	EFM-input pin.
19	SLCLPF0	—	SLC LPF pin.
20	SLCLPF1	—	SLC LPF pin.
21	SLC01	—	SLC control pin.
22	SLC02	—	SLC control pin.
23	AVDD1	—	A/D D/A SLC power supply. [Analog 5V]
24	ADSS	—	Analog GND.
25	VREF	O	Servo D/A standerd voltage.
26	SLCBIAS	O	Servo D/A output pin. (SLCBIAS: SLC standerd voltage signal)
27	TESBIAS	O	Servo D/A output pin. (TESBIAS: TES standerd voltage signal)
28	HFLBIAS	O	Servo D/A output pin. (HFLBIAS: HFL standerd voltage signal)
29	OFSET	O	Servo D/A output pin. (OFSET: Assistant signal)
30	BCA	O	Servo D/A output pin. (BCA: Assistant signal)
31	BOOT3T	O	Servo D/A output pin. (BOOT3T: Assistant signal)
32	RFVCA	O	Servo D/A output pin. (RFVCA: Assistant signal)
33	TBAL	O	Servo D/A output pin. (TBAL: Tracking balance control signal)
34	FBAL	O	Servo D/A output pin. (FBAL: Focus balance control signal)
35	SGC	O	Servo D/A output pin. (SGC: Assistant signal)
36	SLSO	O	Servo D/A output pin. (SLSO: Thread control signal)
37	SPDO	O	Servo D/A output pin. (SPDO: Spindle control signal)
38	TDO	O	Servo D/A output pin. (TDO: Tracking control signal)
39	FDO	O	Servo D/A output pin. (FDO: Focus control signal)
40	DVSS	—	Digital GND.
41	DVDD0	—	Internal logic power supply. [Digital 3.3V]

Pin No.	Pin Name	I/O	Description
42	FG	I	FG counter input pin.
43	EVENT	I	EVENT counter input pin. (Pull down)
44	HFLIO	I/O	Mirror detest signal I/O pins.
45 ~ 48	PP0 ~ 3	I/O	General-purpose port 0 ~ 3. (Pull down)
49	WRQ	O	Subcode Q read ready monitor pin.
50	HFBUSYB	O	DSP command dispose busy signal output pin.
51	HBUSYB	O	DSP command receiver busy signal output pin.
52	DVDD3	—	I/O power supply. [Digital 5V]
53	DVSS	—	Digital GND.
54	HWAITB	O	Wait signal output pin.
55	HIRQB	O	Interrupt signal output pin.
56	DVDRESB	I	Decoder reset input pin.
57	RESB	I	System reset input pin.
58	HRDB	I	Read signal input pin.
59	HWRB	I	Write signal input pin.
60	HCSB	I	Chip select signal input pin.
61 ~ 68	HDAT0 ~ 7	I/O	Data0 ~ 7.
69 ~ 81	HADR0 ~ 12	I	Address0 ~ 12.
82	DVDD3	—	I/O power supply. [Digital 5V]
83	DVSS	—	Digital GND.
84	PW/FSEQ	O	Subcode [P, Q, R, S, T, U, V and W] data output pin.
85	SBCK	I	Subcode data readout shift clock input pin. (Connected to GND)
86	SBSY	O	Subcode block synchronization signal output pin. (No connected)
87	SFSY	O	Subcode frame synchronization signal output pin.
88	FSX	O	CD1 frame synchronization signal.
89	EFLG	O	Error correction C1, C2 correction conditions monitor pins.
90, 91	PP4, 5	I/O	General-purpose port4, 5. (Pull down)
92	X16MOUT	O	Internal 16MHz output pin. (No connected)
93	X16MIN	I	External 16MHz input pin.
94	TEST2	I	Test input pin2. (L Fixed)
95	DVDCKOUT	O	Internal DVD clock output pin.
96	DVDCKIN	I	External DVD clock input pin. (Pull down)
97	TEST3	I	Test input pin3. (L Fixed)
98	DVDD0	—	Internal logic power supply. [Digital 3.3V]
99	DVSS	—	Digital GND.
100	VPDO	—	SYSTEM PLL filter connection pin.
101	VRPFR	—	SYSTEM PLL VCO oscillator range adjustment pin.
102	VCOC	—	SYSTEM PLL filter connection pin.
103	AVSS	—	Analog GND.
104	AVDD3	—	SYSTEM VCO power supply. [Analog 3.3V]
105	DVSS	—	Digital GND.

Pin No.	Pin Name	I/O	Description
106	XIN	I	Oscillator circuit input pin.
107	XOUT	O	Oscillator circuit outpit pin.
108	DVDD6	—	Oscillator circuit power supply. [Digital 3.3V]
109, 110	PP6, 7	I/O	General-purpose port6, 7. (Pull down)
111	AVREQIO	I/O	AV data demand flag I/O pins.
112	AVACKOI	I/O	AV data read strobe output pin.
113	AVDACK	O	AV data read (Clock/Enable) output pins.
114	AVSCTB	O	AV output sector synchronization output pin.
115	AVERRB	O	AV data reliable flag output pin.
116	DVSS	—	Digital GND.
117	DVDD4	—	I/O power supply. [Digital 3.3V or 5V]
118 ~ 125	AVD0 ~ 7	O	AV data0 ~ 7.
126	C2F	O	C2 flag output pin.
127	ROMXA	O	CD data output pin.
128	ROMCK	O	CD data output shift lock output pin.
129	LRSY	O	CD data output L/R clock output pin.
130	EMPH	O	Deemphasis monitor pin.
131	DOUT	O	Audio EIAJ data output pin.
132	DVDD4	—	I/O power supply. [Digital 3.3V or 5V]
133	DVSS	—	Digital GND.
134	EFMOUT	O	EFM 2 value signal output pin.
135	LEFM	O	Output pin for the signal picked out from EFM binary signal with PCK.
136	PCK	O	EFM playback shift clock output pin.
137	DVDD4	—	Inner logic power supply. [Digital 3.3V]
138	DVSS	—	Digital GND.
139	VCOCTL	—	VCO filter connection pin.
140	PPDO	—	Phase comparison filter connection pin.
141	FPDO	—	Frequency comparison filter connection pin.
142 ~ 144	LF1 ~ 3	—	Filter connection pin1 ~ 3.
145	PCN	—	Voltage monitor pin. (Phase comparison charge pomp PCH control voltage)
146	PISET	—	Current setting pin for the constant-current phase comparison charge pump.
147	FISET	—	Current setting pin for the constant-current frequency comparison charg pump.
148	CDFR	—	EFM playback VCO oscillator range setting pin. [For CD] (Pull down)
149	DVDFR	—	EFM playback VCO oscillator range setting pin. [For DVD] (Pull down)
150	AVDD2	—	EFM PLL JV power supply. [Analog 5V]
151	AVSS2	—	Analog GND.
152, 153	JVCPI, JVCPC	—	JV control pin.
154	JVAO	O	EFM playback PLL clock jitter output pin.
155	JVAIN	—	JV control pin. (Pull down)
156	JVRVO	—	JV control pin. (No connected)
157	AVDD4	—	SYSTEM PLL power supply. [Analog 3.3V]

Pin No.	Pin Name	I/O	Description
158	AVSS	—	Analog GND.
159 ~ 166	MD15 ~ 8	I/O	DRAM data15 ~ 8.
167	DVDD5	—	I/O power supply. [Digital 5V]
168	DVSS	—	Digital GND.
169 ~ 176	MD7 ~ 0	I/O	DRAM data7 ~ 0.
177 ~ 184	MA0 ~ 7	O	DRAM address0 ~ 7.
185	DVDD5	—	I/O power supply. [Digital 5V]
186	DVSS	—	Digital GND.
187	MA8	O	DRAM address8.
188 ~ 191	MA9-12	O	DRAM address9 ~ 12. (No connected)
192	MRAS0B	O	RAS output pin0.
193	MRAS1B	O	RAS output pin1. (No connected)
194	MCASUB	O	CAS output pin. (Upper Byte)
195	MCASLB	O	CAS output pin. (Lower Byte)
196	MOEB	O	OE output pin.
197	MWEB	O	WE output pin.
198	DVSS	—	Digital GND.
199	DVDD0	—	Inner logic power supply. [Digital 3.3V]
200 ~ 204	RFP0 ~ 4	O	RF general-purpose port output pin0 ~ 4.
205	DBFECTO	O	Defect signal output pin.
206	DEFECTTI	I	Defect signal input pin.
207	DVSS	—	Digital GND.
208	DVDD1	—	I/O power supply. [Digital 5V]

IC, LA9702W

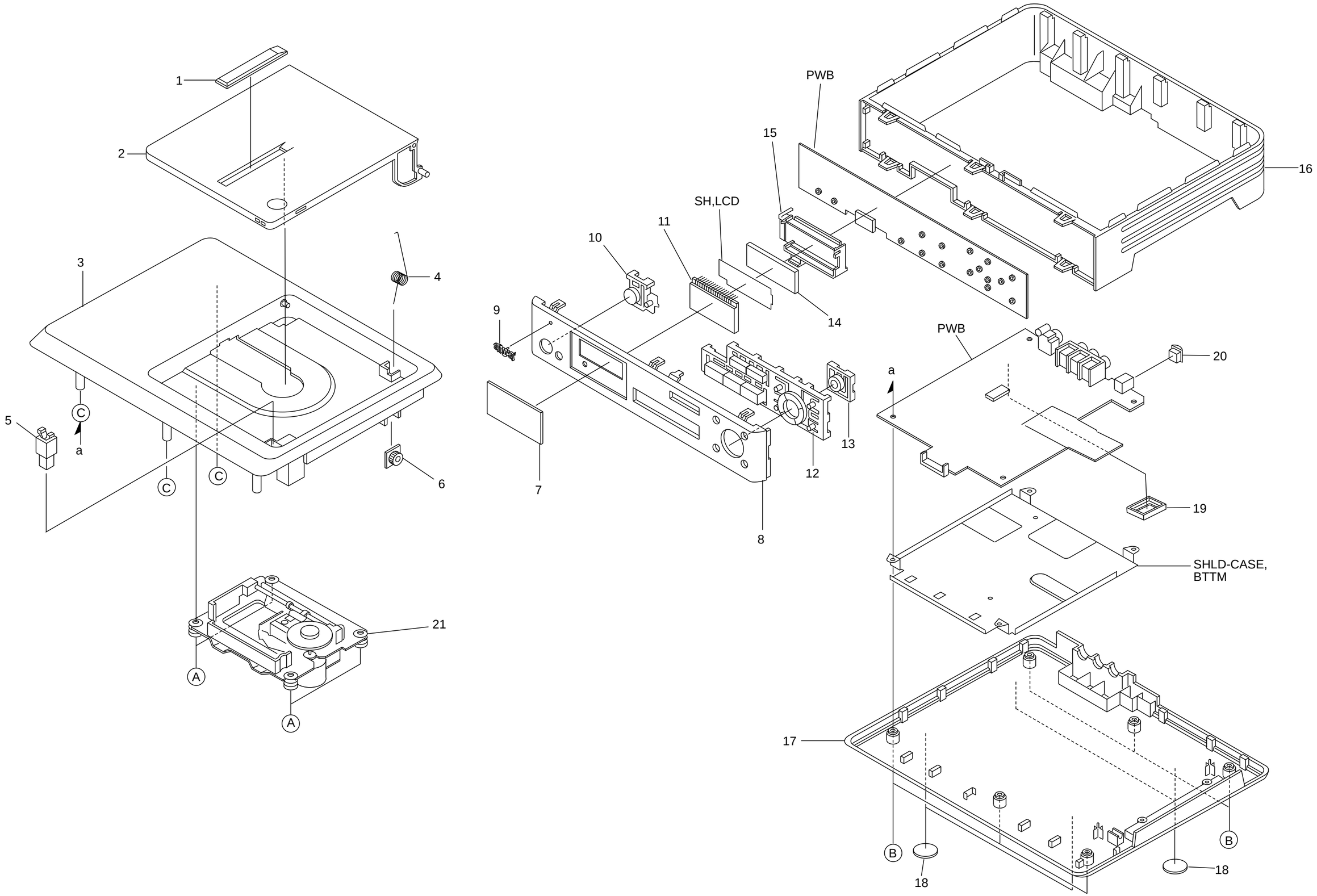
Pin No.	Pin Name	I/O	Description
1	RFM	I	RF signal - input. (Pull down)
2	RFP	I	RF signal + input.
3	PD1	I	Pickup signal input.
4	PD2	I	Pickup signal input.
5	PD3	I	Pickup signal input.
6	PD4	I	Pickup signal input.
7	PD5	I	Pickup signal input.
8	PD6	I	Pickup signal input.
9	PD7	I	Pickup signal input.
10	PD8	I	Pickup signal input.
11	PD9	I	Pickup signal input.
12	VCC	—	Power supply. (Servo signal system)
13	LDD1	O	APC1 output.
14	LDS1	I	APC1 monitor voltage input.
15	LDD2	O	APC2 output.
16	LDS2	I	APC2 monitor voltage input.
17	GND	—	Ground. (Servo signal system)
18	SGC	I	Servo gain control terminal. (RREC, FE, TE)
19	FBAL	I	Focus balance adjustment terminal.
20	TEBL	I	Tracking balance adjustment terminal.
21	VGA	I	RF gain adjustment terminal.
22	BST	I	Equalizer boost adjustment terminal.
23	FOST	I	Focus offset adjustment terminal.
24	TOST	I	Tracking offset adjustment terminal.
25	BCATH	I	BCA threshold adjustment terminal.
26	REFI	I	Reference voltage setting terminal.
27	2.5V OUT	O	Reference voltage output for servo signal.
28	RRBC	O	Reflection output.
29	FE	O	Focus error output.
30	TE	O	Tracking error output.
31	THC	—	External capacitor for setting TE hold time constant is connected to this terminal.
32	WO	O	Warble output terminal.
33	ISET	—	External resistor for setting BPF center frequency is connected to this terminal. (Pull down)
34	WOI	I	Push-pull signal input.
35	WOO	O	Push-pull signal output.
36	TEO	—	TE gain setting terminal for 3 beam.
37	TEN	—	TE gain setting terminal for 3 beam.
38	CP	—	External resistor and capacitor for setting charge pump gain, are connected to this terminal.
39	BHI	—	External resistor for setting bottom hold detection constant, is connected to this terminal. (Pull down)
40	RFON	O	RF - output.

Pin No.	Pin Name	I/O	Description
41	RFOP	O	RF + output.
42	BH	O	RF bottom detection output.
43	PHI	—	External resistor for setting peak hold detection constant, is connected to this terminal. (Pull down).
44	PH	O	RF peak detection output.
45	BCA	O	BCA output.
46	DEF	O	Defect output. (H: Defect detection)
47	DEFC	—	External resistor for defect detection is connected to this terminal.
48	TC	—	External resistor for setting defect detection constant is connected to this terminal.
49	GND	—	Ground. (DPD system)
50	LPC	—	External capacitor for RF DC servo is connected to this terminal.
51	CPOF	I	Charge pump OFF terminal. (H: OFF)
52	EQO2	—	RF equalizer setting terminal.
53	TH	I	Tracking hold. (H: Hold)
54	EQL2	I	RF equalizer setting terminal.
55	VCC	—	Power supply. (DPD system)
56	EQO4	O	RF equalizer setting terminal.
57	XHTR	I	Tracking bottom detection band switch. (L: High band)
58	BQL4	I	RF equalizer setting terminal.
59	XQBH	I	Bottom detection constant switch. (L: High speed)
60	EQO3	O	RF equalizer setting terminal.
61	EQSCT	I	Equalizer switcher. (H: 77-pin selection, L: 52-pin selection)
62	EQI3	I	RF equalizer setting terminal.
63	DPD/TEB	I	DPD 3-beam tracking switcher. (H: DPD)
64	RFO2	O	RF output.
65	RFO1	O	RF output.
66	VCC	—	Power supply. (RF system)
67	EQI1	I	RF equalizer setting terminal.
68	TE/PP	I	3-beam push-pull tracking switcher. (L: 3-beam)
69	EQO1	O	RF equalizer setting terminal.
70	LDON2	I	APC2 laser ON terminal. (H: ON)
71	EQI2	I	RF equalizer setting terminal.
72	LDON1	I	APC1 laser ON terminal. (H: ON)
73	EQO2	O	RF equalizer setting terminal.
74	GND	—	Ground. (RF system)
75	EQL1	I	RF equalizer setting terminal.
76	RFSCT	I	RF input switcher. (H: RF different input, PP error)
77	EQO1	O	RF equalizer setting terminal.
78	CAO	O	Customer amplifier output.
79	PREF	—	Reference voltage output. (for pick)
80	OAN	I	Customer amplifier input.

IC, HN58X2416FPI

Pin No.	Pin Name	I/O	Description
1 ~ 3	NC	—	Not used.
4	VSS	—	Ground
5	SDA	I/O	Serial data input/output
6	SCL	I	Serial clock input
7	WP	I	Write protect
8	VCC	—	Power supply

MECHANICAL EXPLODED VIEW 1/1



MECHANICAL PARTS LIST 1 / 1

REF. NO	PART NO.	KANRI NO.	DESCRIPTION
1	8A-AV6-007-010		WINDOW,LID
2	8A-AV6-029-010		LID,DISK SDV
3	8A-AV6-026-010		CABI,TOP SDV
4	8A-AV6-205-010		SPR-T,LID
5	87-036-389-010		SW,PUSH 1-1-1 R8120125
6	87-063-164-010		OIL-DMPR,
7	8A-AV6-030-010		WINDOW,LCD SDV
8	8A-AV6-028-010		CABI,FRONT SDV
9	8A-AV6-008-010		BADGE,AIWA 25 SIL
10	8A-AV6-009-010		KEY,POWER
11	8A-AV6-608-010		LCD,AAV-6
12	8A-AV6-033-010		KEY,PLAY SDV
13	8A-AV6-034-010		KEY,ENTER SDV
14	8A-AV6-202-010		LENS,LCD
15	8A-AV6-201-010		HLDR,LCD
16	8A-AV6-038-010		CABI,CNTR SDV HR
17	8A-AV6-041-110		CABI,BTTM SDV EZ
18	8A-AV6-215-010		FOOT,19-1.5
19	87-A91-554-010		COVER,2-44P IC179-44600
20	87-HC4-014-010		COVER, OPT
21	M8-AZK-J93-070		MECHA, DV32BF2 DVD
A	8A-ZG1-201-010		S-SCREW,MECH 880
B	87-067-581-010		TAPPING SCREW, BVT2+3-15
C	87-B10-307-010		VFT2+2.6-12 W/O SLOT

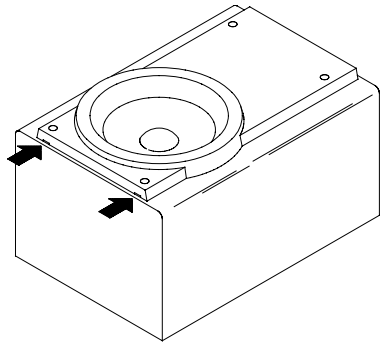
COLOR NAME TABLE

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
LA	Aqua Blue	GL	Light Green	HT	Transparent Gray

GENERAL SPEAKER DISASSEMBLY INSTRUCTIONS (FOR REFERENCE)

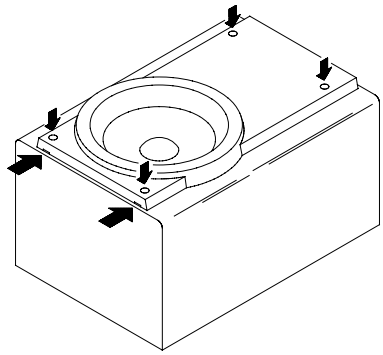
Type.1

Insert a flat-bladed screwdriver into the position indicated by the arrows and remove the panel. Remove the screws of each speaker unit and then remove the speaker units.



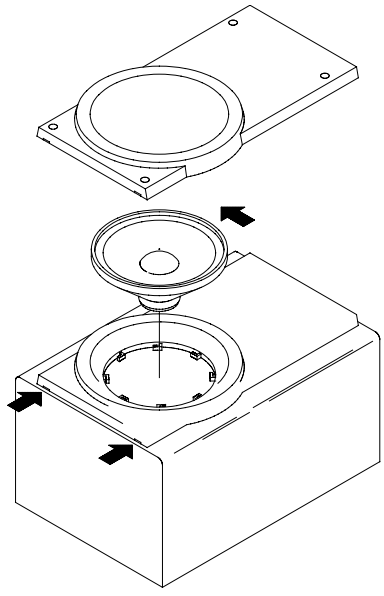
Type.2

Remove the grill frame and four pieces of rubber caps by pulling out with a flat-bladed screwdriver. Remove the screws from hole where installed rubber caps. Insert a flat-bladed screwdriver into the position indicated by the arrows and remove the panel. Remove the screws of each speaker unit and then remove the speaker units.

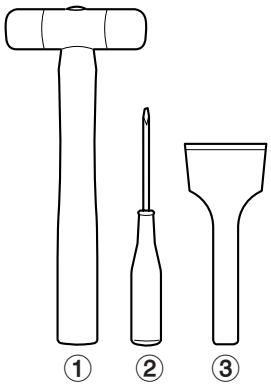


Type.3

Insert a flat-bladed screwdriver into the position indicated by the arrows and remove the panel. Turn the speaker unit to counter-clockwise direction while inserting a flat-bladed screwdriver into one of the hollows around speaker unit, and then remove the speaker unit. After replacing the speaker unit, install it turning to clockwise direction until "click" sound comes out.



Type.4



TOOLS

① Plastic head hammer
② (⊖) flat head screwdriver
③ Cut chisel

How to Remove the PANEL, FR

1. Insert the (⊖) flat head screwdriver tip into the gap between the PANEL, FR and the PANEL, SPKR. Tap the head of the (⊖) flat head screwdriver with the plastic hammer head, and create the clearance as shown in Fig-1.

2. Insert the cut chisel in the clearance, and tap the head of the cut chisel with plastic hammer as shown in Fig-2, to remove the PANEL, FR.

3. Place the speaker horizontally. Tap head of the cut chisel with plastic hammer as shown in Fig-3, and remove the PANEL, FR completely.

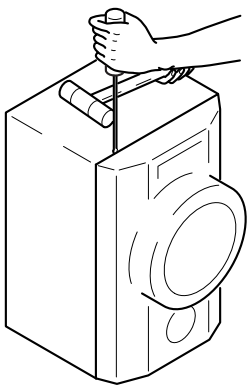


Fig-1

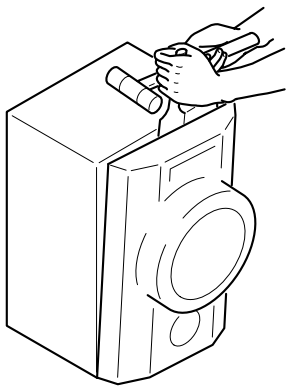


Fig-2

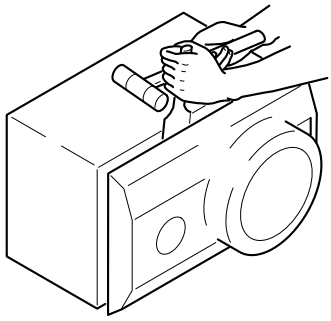


Fig-3

How to Attach the PANEL, FR

Attach the PANEL, FR to the PANEL, SPKR. Tap the four corners of the PANEL, FR with the plastic hammer to fit the PANEL, FR into the PANEL, SPKR completely.

SPEAKER PARTS LIST (SX–AVW50) <YSC>

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
1	8A-ASB-014-010		CABI,FR CS
2	8A-ASB-009-010		CABI,FR MS
3	8A-ASB-015-010		CABI,RE CS
4	8A-ASB-010-010		CABI,RE MS
5	8A-ASB-612-010		CORD, SPKR 30M
6	8A-AS2-006-010		COVER
7	8A-ASB-002-010		GRILLE,FRAME ASSY
8	8A-ASB-016-010		GRILLE,FRAME ASSY CS
9	8A-ASB-011-010		GRILLE,FRAME ASSY MS
10	8A-ASB-005-010		PANEL,DUCT
11	8A-ASB-606-010		SPKR, 140
12	8A-ASB-602-010		SPKR, 70 FR
13	8A-ASB-603-010		SPKR, 70 RE
14	8A-ASB-604-010		SPKR, 70C
15	8A-ASB-006-010		TERMINAL
16	8A-AS1-013-010		TERMINAL

SPEAKER PARTS LIST (SX–CR677) <YJ3ST1L>

NOTE: This SX-CR677 Speaker contains SX-C607 (Center Speaker) and SX-R277 (Surround Speakers).

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
1	8Z-YS1-023-010		GRILLE,FRAME ASSY G<R277>
2	8Z-YS1-601-110		SPKR,100<R277>
3	87-YS6-002-010		SPKR,CORD Y<R277>
4	81-VSA-009-010		CORD,BUSH<R277>
5	87-010-384-010		CAP,E 100-25 M SME<R277>
6	8Z-YS2-027-010		GRILLE,FRAME ASSY G<C607>
7	87-YS7-012-010		PANEL,FR S<C607>
8	87-YS7-604-010		SPKR,100<C607>
9	83-NSM-010-010		SPKR,CORD<C607>
10	81-VSA-009-010		CORD,BUSH<C607>

ACCESSORIES / PACKAGE LIST

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
1	8A-AX1-906-010		IB,EZ(9L)S
2	87-A90-054-010		ANT,LOOP AM-CON C
3	87-A90-118-010		ANT WIRE,FM(Z)
4	8A-AR6-701-010		RC UNIT,RC-AAR05 BLK
4	8A-AV6-620-010		RC UNIT,RC-AVL01
5	87-A80-167-010		CORD,PIN IPY 150 CM
⚠ 6	87-B30-415-010		AC ADAPTOR,AC-D1003ENC
⚠ 7	87-050-076-010		AC CORD SET ASSY,E
8	87-A80-179-010		CORD,PIN VIDEO 50 Y
⚠ 9	87-A80-180-010		CORD,POWER EIAJ 10
⚠ 10	87-B30-480-010		CABLE,OPTICAL TOS 50CM

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