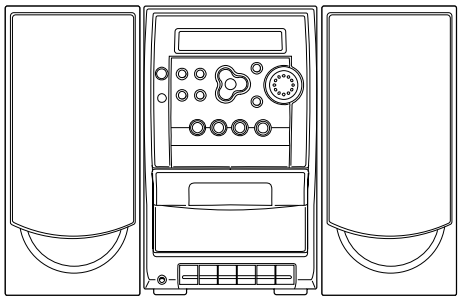
aiwa
SERVICE

LCX-K277 HC(S)



SERVICE MANUAL

COMPACT DISC STEREO SYSTEM

BASIC TAPE MECHANISM : TN-21ZSC-2003
BASIC CD MECHANISM : DA-11T3C

aiwa

S/M Code No. 09-007-347-4N2

DATA

SPECIFICATIONS

MAIN UNIT

FM tuner section

Tuning range	87.5 MHz to 108 MHz
Antenna terminals	75 ohms (unbalanced)

AM tuner section

Tuning range	531 kHz to 1602 kHz (9 kHz step) 530 kHz to 1710 kHz (10 kHz step)
Antenna	Loop antenna

Amplifier section

Power output	5.5 W + 5.5 W (4 ohms, T.H.D. 1%, 1 kHz) 7.0 W + 7.0 W (4 ohms, T.H.D. 10%, 1 kHz)
Input	AUX: 800 mV
Outputs	SPEAKERS: accept speakers of 4 ohms or more PHONES (stereo minijack): accepts headphones of 32 ohms or more VIDEO OUT: 1 Vp-p (75 ohms)

Cassette deck section

Track format	4 tracks, 2 channels stereo
Frequency response	Normal tape: 50 Hz – 10000 Hz
Recording system	AC bias
Erasure system	Magnet erase
Heads	Recording/playback × 1 Erase head × 1

Compact disc player section

Laser	Semiconductor laser (λ = 780 nm)
D-A converter	1 bit linear
Wow and flutter	Unmeasurable

SPEAKER SYSTEM

Speakers	100 mm cone type, 4 ohms
Impedance	4 ohms
Dimensions (W × H × D)	130 × 262.5 × 215 mm
Weight	1.3 kg

GENERAL

Power requirements	120 V/220-240 V AC switchable, 50/60 Hz
Power consumption	26 W
Dimensions of main unit (W × H × D)	160 × 265 × 248.5 mm
Weight of main unit	3.5 kg

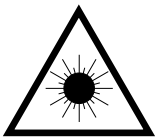
- Design and specifications are subject to change without notice.

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: Usynling laserstråling ved åbning, når sikkerhedsafbrydere er ude af funktion. Undgå udsættelse for stråling.

VAROITUS!

Laiteen Käyttäminen muulla kuin tässä käyttöohjeessa mainitulla tavalla saattaa 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 herein may result in hazardous radiation exposure.

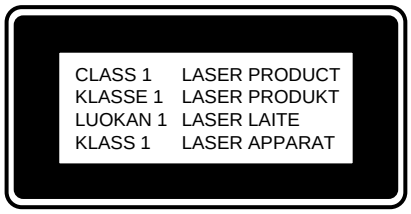
ATTENTION

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

ADVARSEL!

Usynlig laserstråling ved åbning, når sikkerhedsafbrydereer ude af funktion. Undgå udsættelse for stråling.

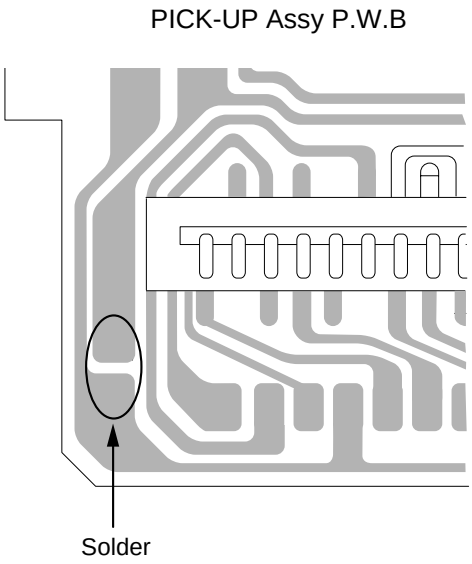
This Compact Disc player is classified as a CLASS 1 LASER product.
The CLASS 1 LASER PRODUCT label is located on the rear exterior.



Precaution to replace Optical block (SF-P101NR)

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.



ELECTRICAL MAIN PARTS LIST-1/4

REF. NO	PART NO.	KANRI NO.	DESCRIPTION
IC			
	87-A20-547-010		C-IC,CXA1992AR
	87-A21-368-010		IC,NJM7812FA(A)
	87-A20-919-040		C-IC,BA5915FP
	87-002-849-080		IC,NJM78L06A
	87-A20-917-010		C-IC,CXD2540Q-1/2
	87-A21-443-040		C-IC,M62495AFP
	8A-CGC-606-010		C-IC,UPD78016FGC
	87-A21-020-010		IC,TA8223K
	87-A20-993-040		C-IC,PST9121NL
	87-A20-602-040		C-IC,M5291FP
	87-A21-431-010		IC,BA4560N
	87-A20-925-040		C-IC,BA05FP
	87-A20-905-040		C-IC,BA033FP
	87-A20-920-010		C-IC,CL680-D1
	87-A20-921-040		C-IC,SN74LVU04APW
	87-A20-962-040		C-IC,MSM54V16258B/BSL
	84-ZG1-695-040		C-IC,LH5V2RN1
	87-A20-975-040		C-IC,SN74LV74APW
	87-A20-974-040		C-IC,LC74781M-9017
	8A-CGC-605-010		C-IC,LC877248A
	87-A20-918-040		C-IC,SM5878AM
	87-070-127-110		IC,LC72131 D
	87-A20-913-010		IC,LA1837NL
	87-A21-482-010		IC,RPM6938-H4
TRANSISTOR			
	87-026-463-080		TR,2SA933S (0.3W)
	89-213-703-010		TR,2SB1370F
	87-026-237-080		CHIP-TR,DTC124XK
	87-026-610-080		TR,KTC3198GR
	89-327-125-080		CHIP TR,2SC2712GR
	87-026-580-080		C-TR,DTA123JK
	87-026-235-080		CHIP-TR,DTC114EK
	87-026-231-080		CHIP-TRANSISTER,DTA124XK
	89-406-555-080		TR,2SD655 (0.5W)
	89-109-521-080		TR,2SA952 (0.6W)
	87-A30-117-010		TR,2SA1357
	89-111-625-080		TR,2SA1162 (0.15W)
	87-026-263-080		C-TR,RN1410
	87-026-470-080		TR,HN1C03F (0.3W)
	89-320-011-080		TR,2SC2001 (15W)
	87-A30-072-080		C-TR,RT1P 144C
	87-026-215-080		TR,DTC114YS
	89-327-143-080		TR,2SC2714 (0.1W)
DIODE			
	87-020-027-080		CHIP-DIODE 1SS184
	87-070-178-090		DIODE,1N5402-BD54
	87-020-465-080		DIODE,1SS133 (110MA)
	87-017-024-040		C-DIODE,DA204K
	87-017-092-080		ZENER,HZS5C2
	87-A40-180-040		C-DIODE,SB07-015C
	87-A40-189-080		DIODE,1SR139-400
	87-020-330-080		DIODE,DAP202K
	87-A40-246-080		DIODE,1N4148T-77
	87-017-781-080		DIODE,IN4004G
	87-017-149-080		ZENER,HZS6A2L
MAIN C.B			
C109	87-016-658-090		CAP,E 4700-35 SMG
C111	87-010-196-080		CHIP CAPACITOR,0.1-25
C112	87-010-401-080		CAP, ELECT 1-50V
C113	87-010-401-080		CAP, ELECT 1-50V
C114	87-010-101-080		CAP, ELECT 220-16
C115	87-010-101-080		CAP, ELECT 220-16
C117	87-010-403-080		CAP, ELECT 3.3-50V
C118	87-010-101-080		CAP, ELECT 220-16
C119	87-010-196-080		CHIP CAPACITOR,0.1-25
C120	87-010-263-080		CAP, ELECT 100-10V
C201	87-010-248-080		CAP, ELECT 220-10V
C203	87-010-248-080		CAP, ELECT 220-10V
C204	87-010-197-080		CAP, CHIP 0.01 DM
C213	87-016-669-080		C-CAP,S 0.1-25 K B
C214	87-016-669-080		C-CAP,S 0.1-25 K B
C223	87-A11-123-080		CAP,TC U 1800P
C224	87-A11-123-080		CAP,TC U 1800P
C225	87-010-401-080		CAP, ELECT 1-50V
C226	87-010-401-080		CAP, ELECT 1-50V
C227	87-018-208-080		CAP 0.047-50F
C228	87-018-208-080		CAP 0.047-50F
C229	87-018-132-080		CAP, CER 2200P-16V
C230	87-018-132-080		CAP, CER 2200P-16V
C231	87-010-406-080		CAP, ELECT 22-50
C232	87-010-406-080		CAP, ELECT 22-50
C233	87-010-260-080		CAP, ELECT 47-25V
C234	87-010-404-080		CAP, ELECT 4.7-50V
C235	87-010-112-080		CAP, ELECT 100-16V
C236	87-010-112-080		CAP, ELECT 100-16V
C237	87-010-237-080		CAP, ELECT 1000-16V
C238	87-010-237-080		CAP, ELECT 1000-16V
C241	87-018-209-080		CAP, CER 0.1-50V
C243	87-010-387-080		CAP,E 470-25 SME
C244	87-010-248-080		CAP, ELECT 220-10V
C250	87-010-401-080		CAP, ELECT 1-50V
C251	87-010-401-080		CAP, ELECT 1-50V
C255	87-010-401-080		CAP, ELECT 1-50V
C256	87-010-401-080		CAP, ELECT 1-50V
C257	87-010-401-080		CAP, ELECT 1-50V
C258	87-010-401-080		CAP, ELECT 1-50V
C259	87-010-401-080		CAP, ELECT 1-50V
C260	87-010-401-080		CAP, ELECT 1-50V
C270	87-010-322-080		C-CAP,S 100P-50 CH
C271	87-010-322-080		C-CAP,S 100P-50 CH
C301	87-010-322-080		C-CAP,S 100P-50 CH
C302	87-010-401-080		CAP, ELECT 1-50V
C305	87-010-374-080		CAP, ELECT 47-10V
C307	87-010-405-080		CAP, ELECT 10-50V
C308	87-010-248-080		CAP, ELECT 220-10V
C309	87-010-405-080		CAP, ELECT 10-50V
C310	87-010-322-080		C-CAP,S 100P-50 CH
C312	87-010-374-080		CAP, ELECT 47-10V
C313	87-010-401-080		CAP, ELECT 1-50V
C315	87-010-426-080		C-CAP,S 0.012-25 B
C318	87-010-426-080		C-CAP,S 0.012-25 B
C319	87-A11-098-080		CAP,270PF-50 CH
C320	87-010-197-080		CAP, CHIP 0.01 DM
C321	87-A11-114-080		CAP,TC U 1200P-50 J CH
C322	87-010-248-080		CAP, ELECT 220-10V
C324	87-010-186-080		CAP,CHIP 4700P
C327	87-010-405-080		CAP, ELECT 10-50V
C328	87-010-405-080		CAP, ELECT 10-50V
C329	87-010-178-080		CHIP CAP 1000P
C330	87-010-178-080		CHIP CAP 1000P
C331	87-010-178-080		CHIP CAP 1000P
C332	87-010-263-080		CAP, ELECT 100-10V
C334	87-010-401-080		CAP, ELECT 1-50V
C335	87-010-260-080		CAP, ELECT 47-25V
C341	87-010-197-080		CAP, CHIP 0.01 DM
C700	87-018-209-080		CAP, CER 0.1-50V
C701	87-010-381-080		CAP, ELECT 330-16V
C702	87-010-404-080		CAP, ELECT 4.7-50V
C703	87-012-286-080		CAP, U 0.01-25
C704	87-012-286-080		CAP, U 0.01-25
C705	87-A10-592-080		C-CAP,S 0.015-50 J B
C706	87-A10-592-080		C-CAP,S 0.015-50 J B

ELECTRICAL MAIN PARTS LIST-2/4

REF. NO	PART NO.	KANRI NO.	DESCRIPTION
C709	87-012-195-080		C-CAP,U 100P-50CH
C711	87-010-260-080		CAP, ELECT 47-25V
C712	87-010-831-080		C-CAP,U,0.1-16F
C714	87-012-286-080		CAP, U 0.01-25
C717	87-012-286-080		CAP, U 0.01-25
C719	87-012-286-080		CAP, U 0.01-25
C720	87-012-195-080		C-CAP,U 100P-50CH
C721	87-012-176-080		CAP 15P
C722	87-012-176-080		CAP 15P
C723	87-012-274-080		CHIP CAP,U 1000P-50B
C725	87-012-274-080		CHIP CAP,U 1000P-50B
C727	87-010-196-080		CHIP CAPACITOR,0.1-25
C728	87-010-248-080		CAP, ELECT 220-10V
C729	87-012-274-080		CHIP CAP,U 1000P-50B
C731	87-012-286-080		CAP, U 0.01-25
C733	87-010-987-080		C-CAP,S 1500P-50 CH
C734	87-010-987-080		C-CAP,S 1500P-50 CH
C735	87-010-987-080		C-CAP,S 1500P-50 CH
C736	87-010-987-080		C-CAP,S 1500P-50 CH
C737	87-A10-592-080		C-CAP,S 0.015-50 J B
C738	87-A10-592-080		C-CAP,S 0.015-50 J B
C751	87-010-220-080		C-CAP,S 0.018-25 B
C752	87-010-220-080		C-CAP,S 0.018-25 B
C756	87-012-286-080		CAP, U 0.01-25
C757	87-012-188-080		C-CAP,U 47P-50 CH
C758	87-012-167-080		C-CAP,U 5P-50 CH
C763	87-010-829-080		CAP, U 0.047-16
C764	87-012-337-080		C-CAP,U 56P-50 CH
C765	87-012-286-080		CAP, U 0.01-25
C768	87-012-286-080		CAP, U 0.01-25
C769	87-010-260-080		CAP, ELECT 47-25V
C770	87-010-829-080		CAP, U 0.047-16
C771	87-010-383-080		CAP, ELECT 33-25V
C772	87-010-829-080		CAP, U 0.047-16
C773	87-010-196-080		CHIP CAPACITOR,0.1-25
C774	87-010-263-080		CAP, ELECT 100-10V
C775	87-010-404-080		CAP, ELECT 4.7-50V
C776	87-012-286-080		CAP, U 0.01-25
C777	87-010-400-080		CAP, ELECT 0.47-50V
C778	87-010-401-080		CAP, ELECT 1-50V
C779	87-010-401-080		CAP, ELECT 1-50V
C780	87-010-196-080		CHIP CAPACITOR,0.1-25
C781	87-010-405-080		CAP, ELECT 10-50V
C782	87-010-405-080		CAP, ELECT 10-50V
C783	87-012-286-080		CAP, U 0.01-25
C784	87-012-286-080		CAP, U 0.01-25
C785	87-016-279-080		CAP,E 1-50 BP
C786	87-016-279-080		CAP,E 1-50 BP
C789	87-012-275-080		C-CAP,U 1200P-50 B
C790	87-012-275-080		C-CAP,U 1200P-50 B
C791	87-010-405-080		CAP, ELECT 10-50V
C793	87-012-273-080		C-CAP,U 820P-50 B
C794	87-010-406-080		CAP, ELECT 22-50
C795	87-010-596-080		CAP, S 0.047-16
C796	87-010-403-080		CAP, ELECT 3.3-50V
C799	87-010-829-080		CAP, U 0.047-16
C812	87-012-286-080		CAP, U 0.01-25
C820	87-010-260-080		CAP, ELECT 47-25V
C821	87-012-286-080		CAP, U 0.01-25
C822	87-012-286-080		CAP, U 0.01-25
C823	87-012-286-080		CAP, U 0.01-25
C828	87-010-196-080		CHIP CAPACITOR,0.1-25
C829	87-010-196-080		CHIP CAPACITOR,0.1-25
C959	87-010-196-080		CHIP CAPACITOR,0.1-25
C960	87-010-196-080		CHIP CAPACITOR,0.1-25
C961	87-012-170-080		C-CAP,U 8P-50 CH
C963	87-010-196-080		CHIP CAPACITOR,0.1-25
CF801	87-008-261-010		FILTER, SFE10.7MA5-A
CF802	87-008-261-010		FILTER, SFE10.7MA5-A
CN101	87-049-919-010		CONN,3P EH V WHT
CN201	87-099-719-010		CONN,30P TYK-B(X)
CN203	87-A60-060-010		CONN,07P V 9604S-07C
CN301	87-A60-627-010		CONN,10P V 2MM JMT
FB701	87-008-372-080		FILTER, EMI BL OIRNI
FB702	87-008-372-080		FILTER, EMI BL OIRNI
FB703	87-008-372-080		FILTER, EMI BL OIRNI
FB704	87-008-372-080		FILTER, EMI BL OIRNI
FB705	87-008-372-080		FILTER, EMI BL OIRNI
FFE801	A8-8ZA-193-070		8ZA-1 YFEUNC
⚠ICP203	87-001-132-080		ICP-N38
J201	87-A60-420-010		JACK,3.5 ST (MSC)
J202	87-A60-754-010		TERMINAL,SPK 4P MSP-154V-05
J203	87-A60-881-010		JACK,PIN 2P MSP 242V05 PBSN
J204	87-099-801-010		JACK,PIN 1P BLK
J801	87-A60-202-010		TERMINAL,ANT 4P MSP-154V-02
L204	87-005-239-080		COIL,100UH
L205	87-005-239-080		COIL,100UH
L301	87-007-342-010		COIL,OSC 85K BIAS
L771	87-A50-266-010		COIL,FM DET-2N(TOK)
L772	87-A91-110-010		FLTR,PCFJZH-450 (TOK)
L981	8Z-ZA1-667-010		COIL,AM PACK 4F(TOK)
R251	87-029-124-010		RES,FUSE 2.2-1/4
R252	87-029-124-010		RES,FUSE 2.2-1/4
S301	8Z-CL8-668-010		SW,RP ZCL8
X721	87-A70-061-010		VIB,XTAL 4.500MHZ CSA-309
MICON C.B			
C601	87-010-196-080		CHIP CAPACITOR,0.1-25
C602	87-010-248-080		CAP, ELECT 220-10V
C606	87-010-178-080		CHIP CAP 1000P
C607	87-010-317-080		C-CAP,S 39P-50 CH
C608	87-010-312-080		C-CAP,S 15P-50 CH
C609	87-010-315-080		C-CAP,S 27P-50 CH
C610	87-010-452-080		CAPACITOR,1-16
C613	87-010-196-080		CHIP CAPACITOR,0.1-25
C614	87-010-196-080		CHIP CAPACITOR,0.1-25
C618	87-012-156-080		C-CAP,S 220P-50 CH
C619	87-010-196-080		CHIP CAPACITOR,0.1-25
C621	87-010-196-080		CHIP CAPACITOR,0.1-25
C622	87-010-401-080		CAP, ELECT 1-50V
C641	87-010-248-080		CAP, ELECT 220-10V
CN601	87-099-720-010		CONN,30P TYK-B(P)
CN602	87-A60-059-010		CONN,08P V 9604S-08C
CN604	87-A60-060-010		CONN,07P V 9604S-07C
L601	87-003-098-080		COIL,2.2UH
L603	87-003-098-080		COIL,2.2UH
LCD601	8A-CJB-630-010		LCD,AIW4214-30P1N ACJ-11
X601	87-030-376-080		VIB,CER CSA5.76MG200
VCD C.B			
C101	87-010-182-080		C-CAP,S 2200P-50 B
C102	87-016-669-080		C-CAP,S 0.1-25 K B
C103	87-016-669-080		C-CAP,S 0.1-25 K B
C104	87-016-669-080		C-CAP,S 0.1-25 K B
C105	87-010-404-040		CAP,E 4.7-50 SME
C106	87-016-369-080		C-CAP,S 0.033-25 B K
C107	87-010-197-080		CAP, CHIP 0.01 DM
C108	87-010-546-080		CAP, ELECT 0.33-50V
C109	87-010-382-040		CAP,E 22-25 SME
C110	87-010-213-080		C-CAP,S 0.015-50 B
C111	87-010-263-040		CAP,E 100-10
C112	87-010-197-080		CAP, CHIP 0.01 DM
C113	87-016-369-080		C-CAP,S 0.033-25 B K
C114	87-016-369-080		C-CAP,S 0.033-25 B K
C115	87-016-369-080		C-CAP,S 0.033-25 B K
C116	87-012-158-080		C-CAP,S 390P-50 CH
C117	87-010-318-080		C-CAP,S 47P-50 CH
C118	87-010-494-040		CAP,E 1-50 GAS

ELECTRICAL MAIN PARTS LIST-3/4

REF. NO	PART NO.	KANRI NO.	DESCRIPTION
C119	87-010-313-080		CAP, CHIP 18P
C120	87-010-992-080		C-CAP,S 0.047-25 B
C121	87-010-992-080		C-CAP,S 0.047-25 B
C123	87-016-669-080		C-CAP,S 0.1-25 K B
C125	87-010-198-080		CAP, CHIP 0.022
C126	87-016-669-080		C-CAP,S 0.1-25 K B
C127	87-010-112-040		CAP,E 100-16
C130	87-010-112-040		CAP,E 100-16
C131	87-010-112-040		CAP,E 100-16
C132	87-010-178-080		CHIP CAP 1000P
C133	87-010-112-040		CAP,E 100-16
C134	87-010-196-080		CHIP CAPACITOR,0.1-25
C135	87-010-196-080		CHIP CAPACITOR,0.1-25
C136	87-010-196-080		CHIP CAPACITOR,0.1-25
C137	87-010-196-080		CHIP CAPACITOR,0.1-25
C138	87-010-184-080		CHIP CAPACITOR 3300P(K)
C139	87-010-197-080		CAP, CHIP 0.01 DM
C140	87-010-112-040		CAP,E 100-16
C141	87-010-196-080		CHIP CAPACITOR,0.1-25
C143	87-010-992-080		C-CAP,S 0.047-25 B
C151	87-010-263-040		CAP,E 100-10
C152	87-010-197-080		CAP, CHIP 0.01 DM
C153	87-A10-893-040		CAP,E 220-10 M PW
C154	87-010-190-080		S CHIP F 0.01
C155	87-010-184-080		CHIP CAPACITOR 3300P(K)
C156	87-010-992-080		C-CAP,S 0.047-25 B
C157	87-010-992-080		C-CAP,S 0.047-25 B
C158	87-012-156-080		C-CAP,S 220P-50 CH
C159	87-016-526-080		C-CAP,S 0.47-16 BK
C160	87-010-314-080		C-CAP,S 22P-50V
C161	87-010-182-080		C-CAP,S 2200P-50 B
C162	87-010-178-080		CHIP CAP 1000P
C201	87-016-669-080		C-CAP,S 0.1-25 K B
C206	87-010-322-080		C-CAP,S 100P-50 CH
C207	87-010-322-080		C-CAP,S 100P-50 CH
C208	87-010-322-080		C-CAP,S 100P-50 CH
C209	87-010-322-080		C-CAP,S 100P-50 CH
C210	87-016-669-080		C-CAP,S 0.1-25 K B
C211	87-010-263-040		CAP,E 100-10
C213	87-010-190-080		S CHIP F 0.01
C214	87-010-196-080		CHIP CAPACITOR,0.1-25
C301	87-016-251-040		CAP,E 220-16 SMG
C302	87-012-140-080		CAP 470P
C303	87-010-178-080		CHIP CAP 1000P
C304	87-010-384-040		CAP,E 100-25 SME
C305	87-010-982-040		CAP,E 33-25 GAS
C306	87-010-112-040		CAP,E 100-16
C307	87-010-196-080		CHIP CAPACITOR,0.1-25
C308	87-010-263-040		CAP,E 100-10
C309	87-010-196-080		CHIP CAPACITOR,0.1-25
C310	87-010-263-040		CAP,E 100-10
C311	87-010-196-080		CHIP CAPACITOR,0.1-25
C312	87-010-178-080		CHIP CAP 1000P
C321	87-010-992-080		C-CAP,S 0.047-25 B
C322	87-010-197-080		CAP, CHIP 0.01 DM
C501	87-010-197-080		CAP, CHIP 0.01 DM
C502	87-010-197-080		CAP, CHIP 0.01 DM
C503	87-010-197-080		CAP, CHIP 0.01 DM
C504	87-010-154-080		CAP CHIP 10P
C505	87-010-154-080		CAP CHIP 10P
C506	87-010-197-080		CAP, CHIP 0.01 DM
C508	87-010-263-040		CAP,E 100-10
C509	87-016-669-080		C-CAP,S 0.1-25 K B
C510	87-010-263-040		CAP,E 100-10
C511	87-010-196-080		CHIP CAPACITOR,0.1-25
C512	87-010-197-080		CAP, CHIP 0.01 DM
C513	87-010-197-080		CAP, CHIP 0.01 DM
C514	87-010-197-080		CAP, CHIP 0.01 DM
C518	87-010-322-080		C-CAP,S 100P-50 CH
C519	87-012-145-080		CAP, CHIP S 270P CH
C520	87-012-157-080		C-CAP,S 330P-50 CH
C521	87-012-154-080		C-CAP,S 150P-50 CH
C522	87-010-371-080		CAP, ELECT 470-6.3V
C523	87-010-197-080		CAP, CHIP 0.01 DM
C524	87-010-197-080		CAP, CHIP 0.01 DM
C525	87-010-197-080		CAP, CHIP 0.01 DM
C526	87-010-197-080		CAP, CHIP 0.01 DM
C527	87-010-197-080		CAP, CHIP 0.01 DM
C528	87-010-197-080		CAP, CHIP 0.01 DM
C529	87-010-197-080		CAP, CHIP 0.01 DM
C530	87-010-197-080		CAP, CHIP 0.01 DM
C531	87-010-197-080		CAP, CHIP 0.01 DM
C532	87-010-374-040		CAP,E 47-10
C533	87-010-197-080		CAP, CHIP 0.01 DM
C534	87-010-112-040		CAP,E 100-16
C535	87-010-197-080		CAP, CHIP 0.01 DM
C536	87-010-078-040		CAP,E 47-6.3 5L
C537	87-010-190-080		S CHIP F 0.01
C538	87-010-196-080		CHIP CAPACITOR,0.1-25
C539	87-010-196-080		CHIP CAPACITOR,0.1-25
C540	87-010-078-040		CAP,E 47-6.3 5L
C541	87-010-197-080		CAP, CHIP 0.01 DM
C542	87-010-318-080		C-CAP,S 47P-50 CH
C543	87-010-322-080		C-CAP,S 100P-50 CH
C544	87-010-197-080		CAP, CHIP 0.01 DM
C546	87-010-197-080		CAP, CHIP 0.01 DM
C547	87-010-322-080		C-CAP,S 100P-50 CH
C548	87-018-134-080		CAP,TC U 0.01-16 NY UP050
C549	87-010-494-040		CAP,E 1-50 GAS
C551	87-012-153-080		C-CAP,S 120P-50 CH
C552	87-016-526-080		C-CAP,S 0.47-16 BK
C554	87-010-197-080		CAP, CHIP 0.01 DM
C556	87-010-197-080		CAP, CHIP 0.01 DM
C557	87-A11-167-080		C-CAP,S 27P-50 F CH
C558	87-A11-167-080		C-CAP,S 27P-50 F CH
C559	87-010-197-080		CAP, CHIP 0.01 DM
C560	87-010-197-080		CAP, CHIP 0.01 DM
C601	87-010-197-080		CAP, CHIP 0.01 DM
C602	87-010-197-080		CAP, CHIP 0.01 DM
C603	87-010-112-040		CAP,E 100-16
C604	87-010-196-080		CHIP CAPACITOR,0.1-25
C605	87-010-197-080		CAP, CHIP 0.01 DM
C606	87-010-197-080		CAP, CHIP 0.01 DM
C607	87-010-313-080		CAP, CHIP 18P
C608	87-010-313-080		CAP, CHIP 18P
C609	87-010-178-080		CHIP CAP 1000P
C610	87-010-178-080		CHIP CAP 1000P
C611	87-010-178-080		CHIP CAP 1000P
C612	87-010-178-080		CHIP CAP 1000P
C613	87-010-403-040		CAP,E 3.3-50 SME
C614	87-010-403-040		CAP,E 3.3-50 SME
C615	87-010-318-080		C-CAP,S 47P-50 CH
C616	87-010-318-080		C-CAP,S 47P-50 CH
CN101	87-A60-424-010		CONN,16P V TOC-B
CN403	87-A60-079-010		CONN,08P H 9604S-08F
CN405	87-A60-060-010		CONN,07P V 9604S-07C
CN406	87-A60-619-010		CONN,2P V 2MM JMT
CNA102	8A-CJB-623-010		CONN ASSY,6P CD MOTOR
J501	87-009-502-010		JACK,PIN 1P Y EARTH
L101	87-005-196-080		COIL,10UH
L301	87-A50-095-010		COIL,68UH RCR875D
L302	87-005-426-080		COIL,3.3UH K FLR50
L502	87-005-204-080		COIL,47UH
L503	87-005-189-080		COIL 2.7UH
L504	87-005-187-080		COIL,1.8UH
L505	87-005-204-080		COIL,47UH
L506	87-005-204-080		COIL,47UH
L507	87-005-204-080		COIL,47UH
L508	87-005-817-080		C-COIL, 33UH J FLC32
L509	87-005-270-080		COIL,4.7UH K LAL03

ELECTRICAL MAIN PARTS LIST-4/4

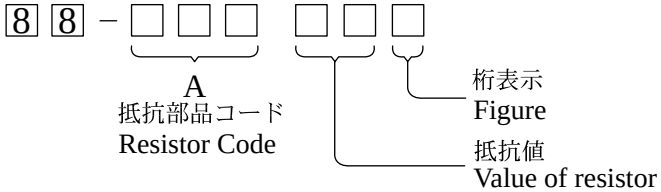
REF. NO	PART NO.	KANRI NO.	DESCRIPTION
L510	87-005-270-080		COIL,4.7UH K LAL03
R109	87-022-364-080		C-RES,S 82K-1/10W F
R507	87-A00-408-080		C-RES,S 2K-1/10W D
S201	88-CDV-607-010		SW,SL 2-2-3 SK23D02G9
X201	87-A70-124-080		VIB,CER 8.0MHZ
X501	87-A70-125-080		VIB,XTAL 27MHZ 50PPM
X601	87-030-270-080		VIB,XTAL 16.9344MHZ
KEY C.B			
C901	87-010-196-080		CHIP CAPACITOR,0.1-25
C902	87-010-196-080		CHIP CAPACITOR,0.1-25
C903	87-010-197-080		CAP, CHIP 0.01 DM
C904	87-010-197-080		CAP, CHIP 0.01 DM
C905	87-010-405-080		CAP, ELECT 10-50V
C906	87-010-178-080		CHIP CAP 1000P
CN901	87-A60-080-010		CONN,07P H 9604S-07F
S901	87-A91-024-180		SW,TACT KSH0611BT
S902	87-A91-024-180		SW,TACT KSH0611BT
S904	87-A91-024-180		SW,TACT KSH0611BT
S905	87-A91-024-180		SW,TACT KSH0611BT
S906	87-A91-024-180		SW,TACT KSH0611BT
S907	87-A91-024-180		SW,TACT KSH0611BT
S908	87-A91-024-180		SW,TACT KSH0611BT
S909	87-A91-024-180		SW,TACT KSH0611BT
S910	87-A91-024-180		SW,TACT KSH0611BT
S911	87-A91-024-180		SW,TACT KSH0611BT
S913	87-A91-024-180		SW,TACT KSH0611BT
S915	87-A91-024-180		SW,TACT KSH0611BT
S916	87-A91-024-180		SW,TACT KSH0611BT
S917	87-A91-024-180		SW,TACT KSH0611BT
S920	87-A91-385-010		SW,RTRY EC12E12504-15MM
LED C.B			
CN606	87-A61-297-010		CONN,5P TKX-P05P-A1
D621	87-A40-821-080		LED,SMLS1BE16C BLU/UMB
D622	87-A40-821-080		LED,SMLS1BE16C BLU/UMB

REF. NO	PART NO.	KANRI NO.	DESCRIPTION
PT C.B			
C100	87-010-398-010		CAP ELECT 2200
C101	87-010-198-080		CAP, CHIP 0.022
C102	87-010-198-080		CAP, CHIP 0.022
C103	87-010-198-080		CAP, CHIP 0.022
C104	87-010-198-080		CAP, CHIP 0.022
CNA101	8A-CLC-610-010		CONN ASSY,3P POWER
⚠F101	87-035-367-010		FUSE, 3.15A 250V
FC101	87-A90-160-080		FUSE CLAMP
FC102	87-A90-160-080		FUSE CLAMP
⚠PT101	8A-CLC-609-010		PT,ACL-12 H
⚠S101	87-A90-234-010		SW,SL 1-2-2 SW2201
⚠T1	87-A60-317-010		TERMINAL, 1P MSC
⚠T2	87-A60-317-010		TERMINAL, 1P MSC
MOTOR C.B			
M2	S0-M10-A09-700		MOTOR SLED ASSY
PIN3	S2-369-750-000		PLUG,6P
SW1	S4-S13-A01-600		SW,LEAF

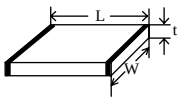
- Regarding connectors, they are not stocked as they are not the initial order items.
  The connectors are available after they are supplied from connector manufacturers upon the order is received.

○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

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

MAIN C.B

J801
FFM75Ω
ANTENNA
AM LOOP

TO VCD C.B <WHT>

J203
R
AUX
L

J204
SUPER WOOFER

J202
L
SPEAKERS
R

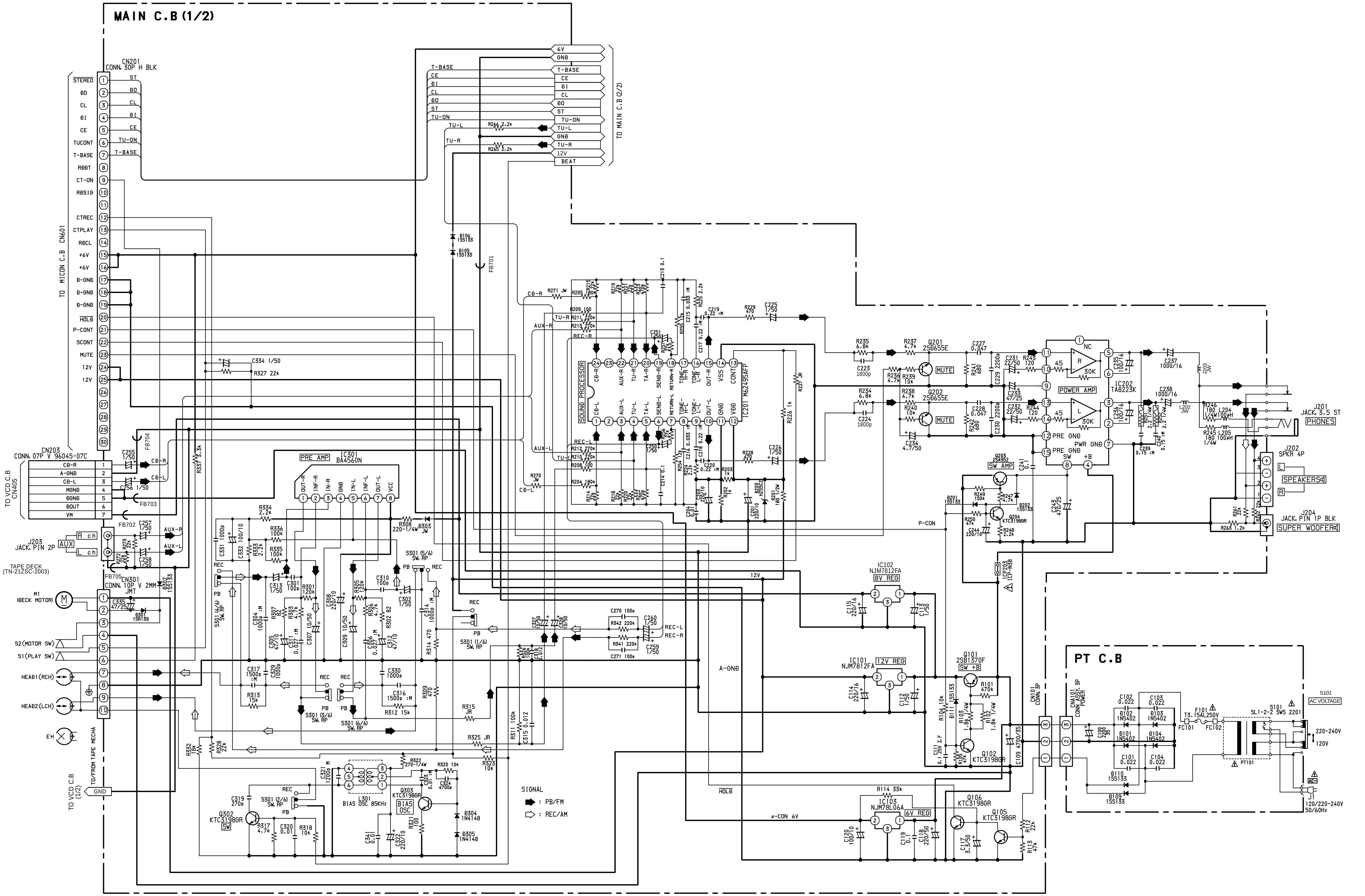
TO M1CON C.B CN601

TO VCD C.B CN405

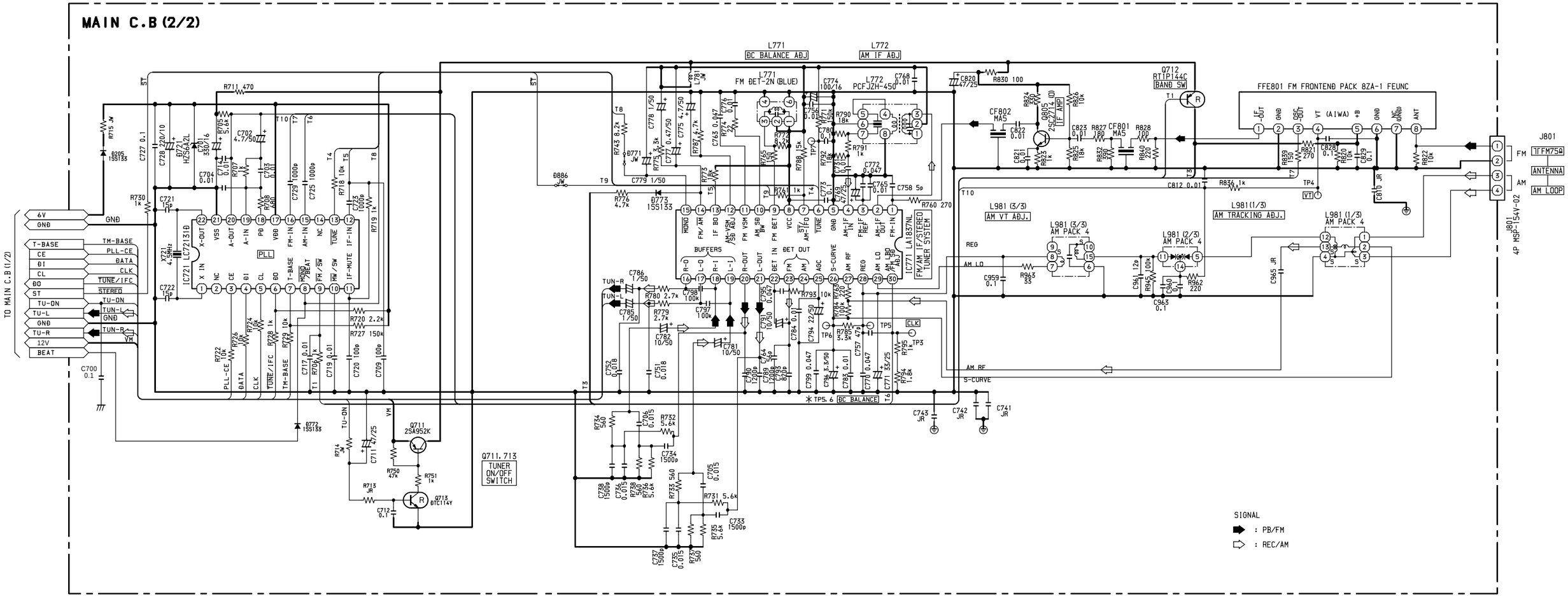
TAPE DECK (TN-21ZSC-2003)
M1 (DECK MOTOR)
S2 (MOTOR SW)
S1 (PLAY SW)
HEAD1 (RCH)
HEAD2 (LCH)
EH

J201
PHONES

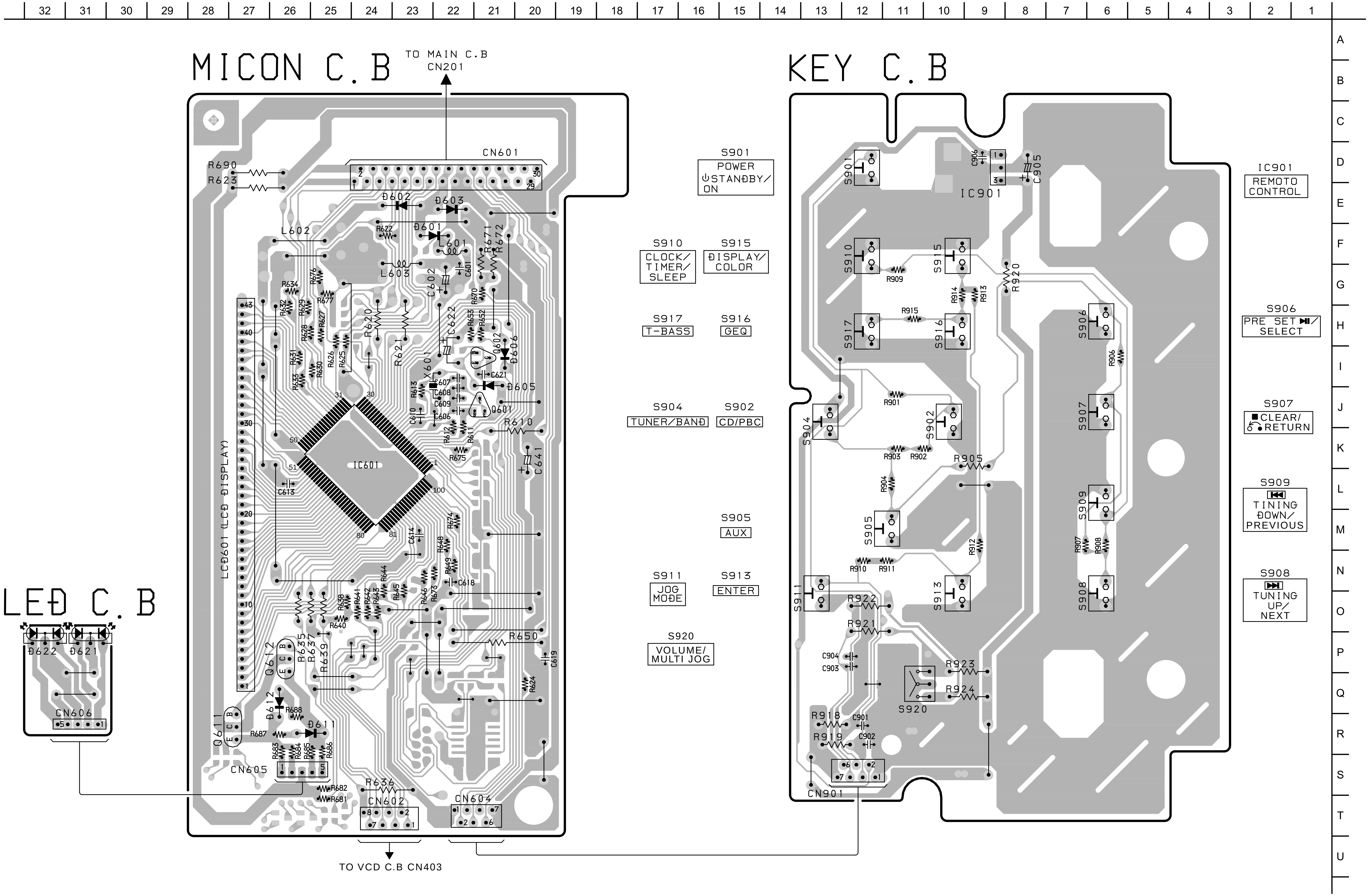
TO PT C.B CNA101


MAIN C.B (1/2)
CN201 CONN, 30P H BLK
TO MICON C.B CN601
TO MAIN C.B (2/2)
CN203 CONN, 07P V 9604S-07C
TO VCD C.B CN405
J203 JACK, PIN 2P
AUX
TAPE DECK (TN-21ZSC-2003)
CN301 CONN, 10P V 2MM JMT
M1 (DECK MOTOR)
S2(MOTOR SW)
S1(PLAY SW)
HEAD1(RCH)
HEAD2(LCH)
EH
TO/FROM TAPE MECHA
TO VCD C.B (1/2)
GND
PRE AMP
IC301 BA4560N
SOUND PROCESSOR
IC201 M62495AFP
POWER AMP
IC202 TA8223K
Q201 2SD655E
Q202 2SD655E
MUTE
Q203 2SA952
SW AMP
Q204 KTC3198GR
J201 JACK, 3.5 ST
PHONES
J202 SPKR 4P
SPEAKERS
J204 JACK, PIN 1P BLK
SUPER WOOFER
IC102 NJM7812FA
8V REG
IC101 NJM7812FA
12V REG
IC103 NJM78L06A
6V REG
Q101 2SB1370F
SW +B
Q102 KTC3198GR
Q105 KTC3198GR
Q106 KTC3198GR
Q302 KTC3198GR
SW
Q303 KTC3198GR
BIAS OSC
L301 BIAS OSC 85KHz
CN101 CONN, 3P
PT C.B
CNA101 CONN ASSY, 3P POWER
PT101
F101 T3.15AL250V
S101 SL1-2-2 SWS 2201
S101 AC VOLTAGE
220-240V
120V
J1 120/220-240V 50/60Hz
SIGNAL
: PB/FM
: REC/AM

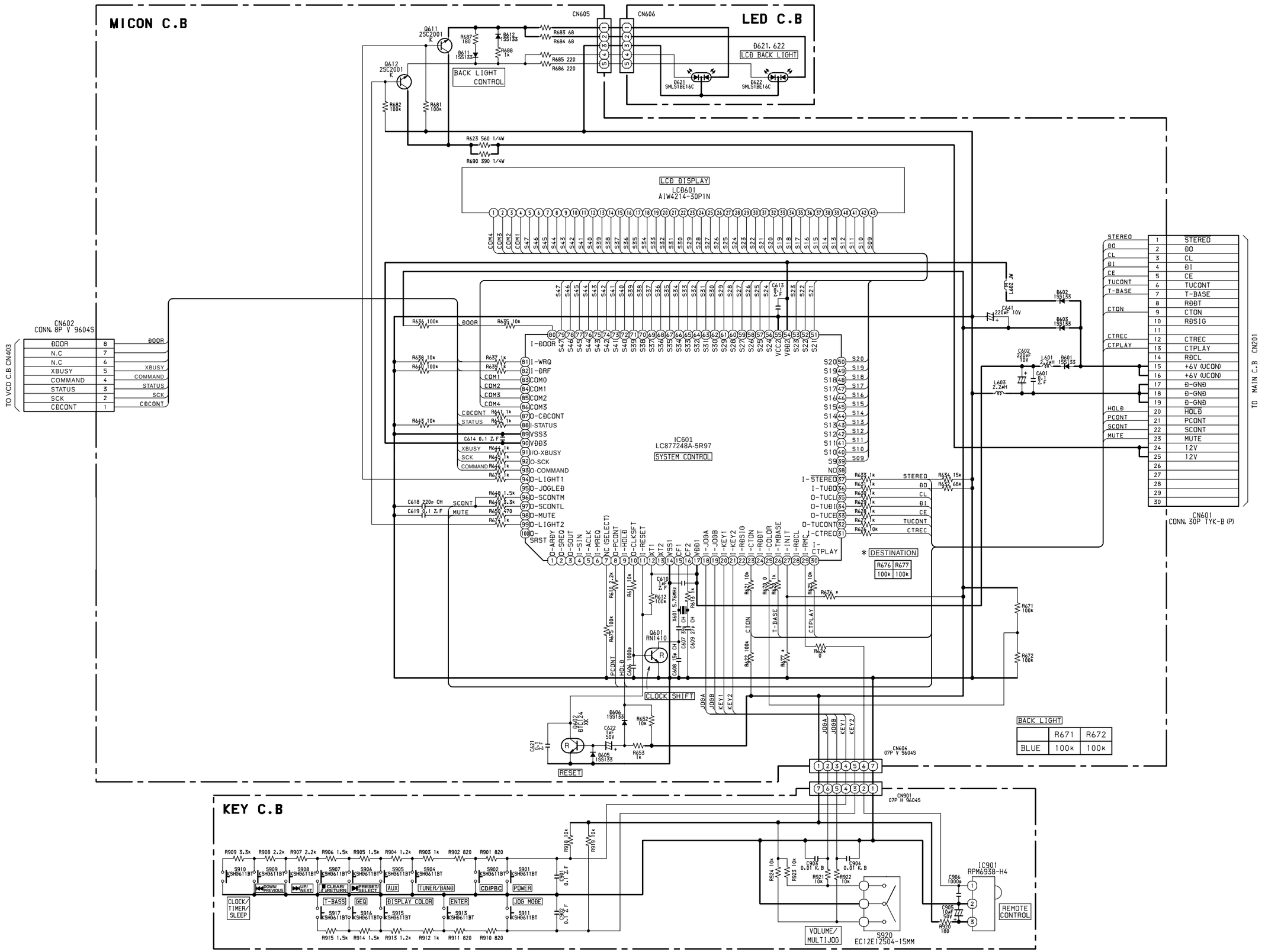
SCHEMATIC DIAGRAM-2/5 (MAIN2/2: TUNER)



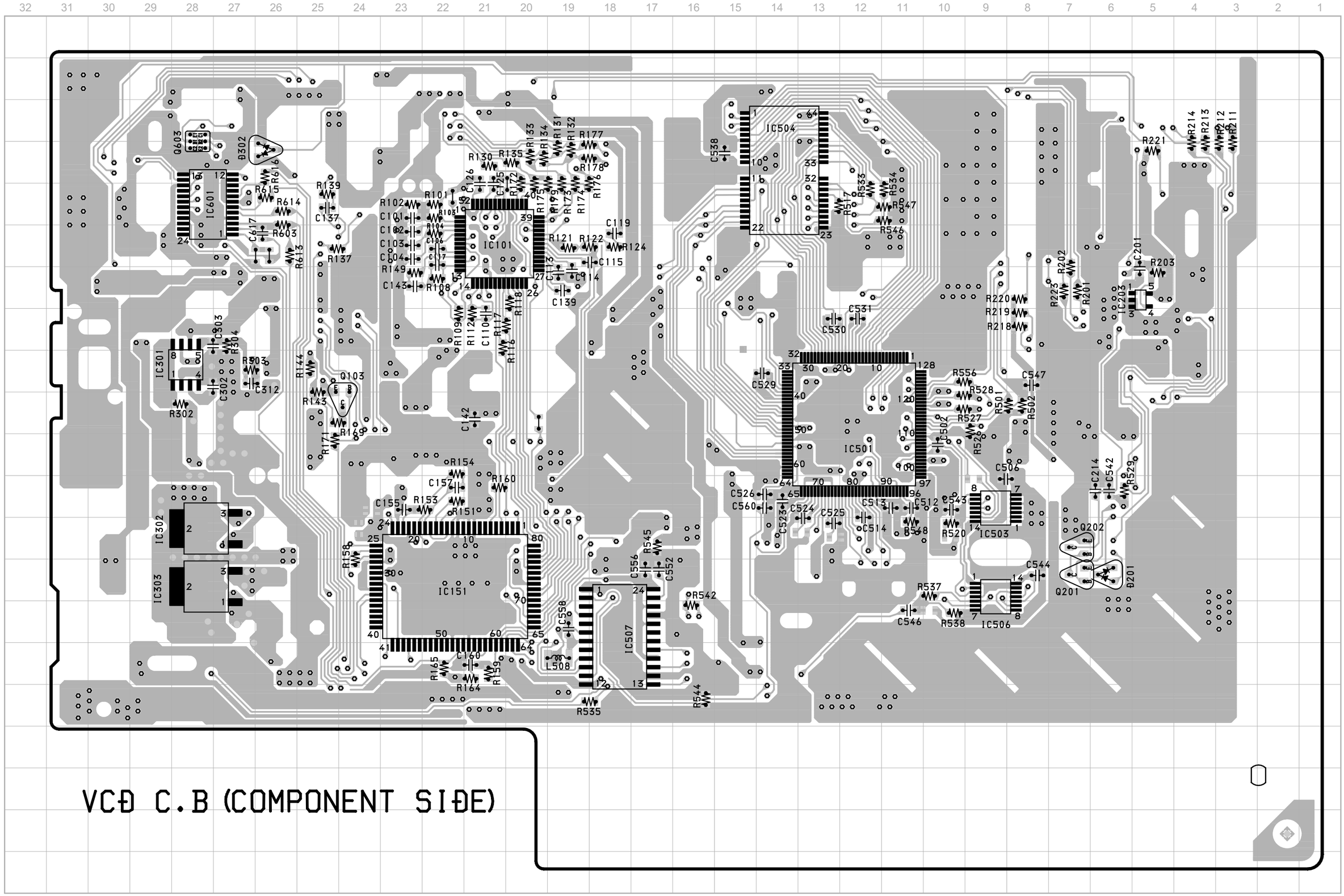
WIRING-2/5 (MICON/KEY/LED)



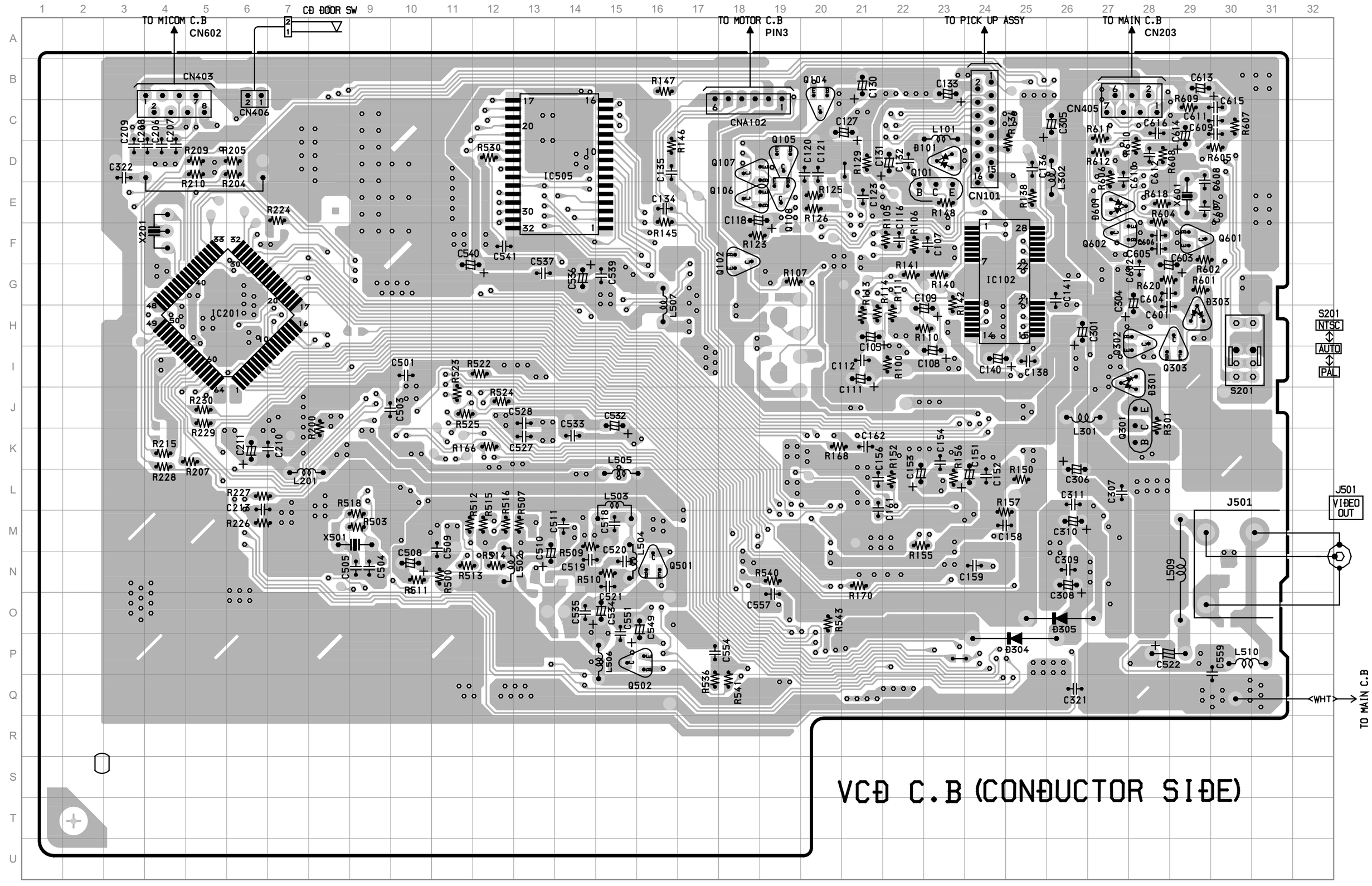
SCHEMATIC DIAGRAM-3/5 (MICON)



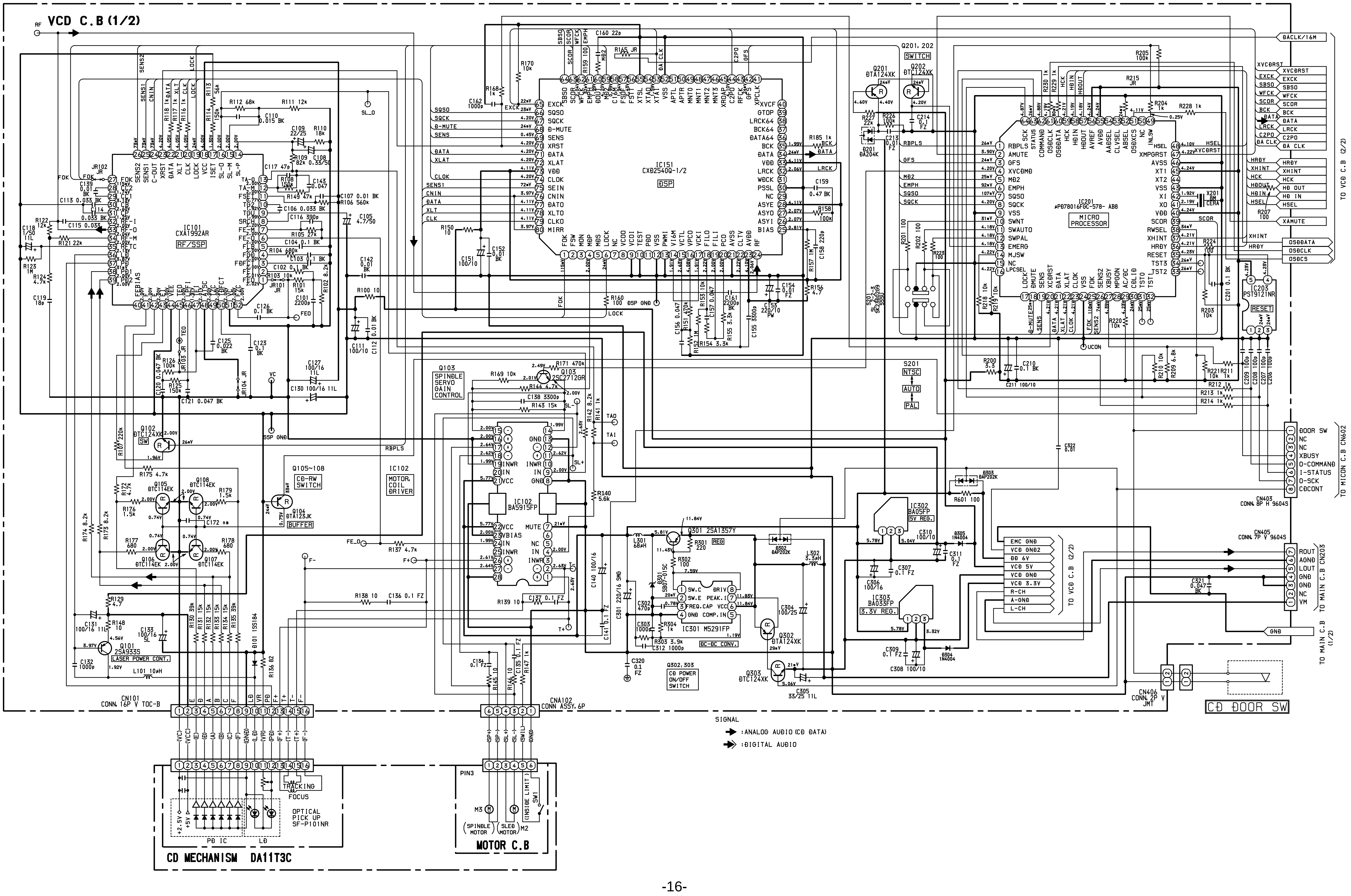
WIRING-3/5 (VCD: COMPONENT SIDE)



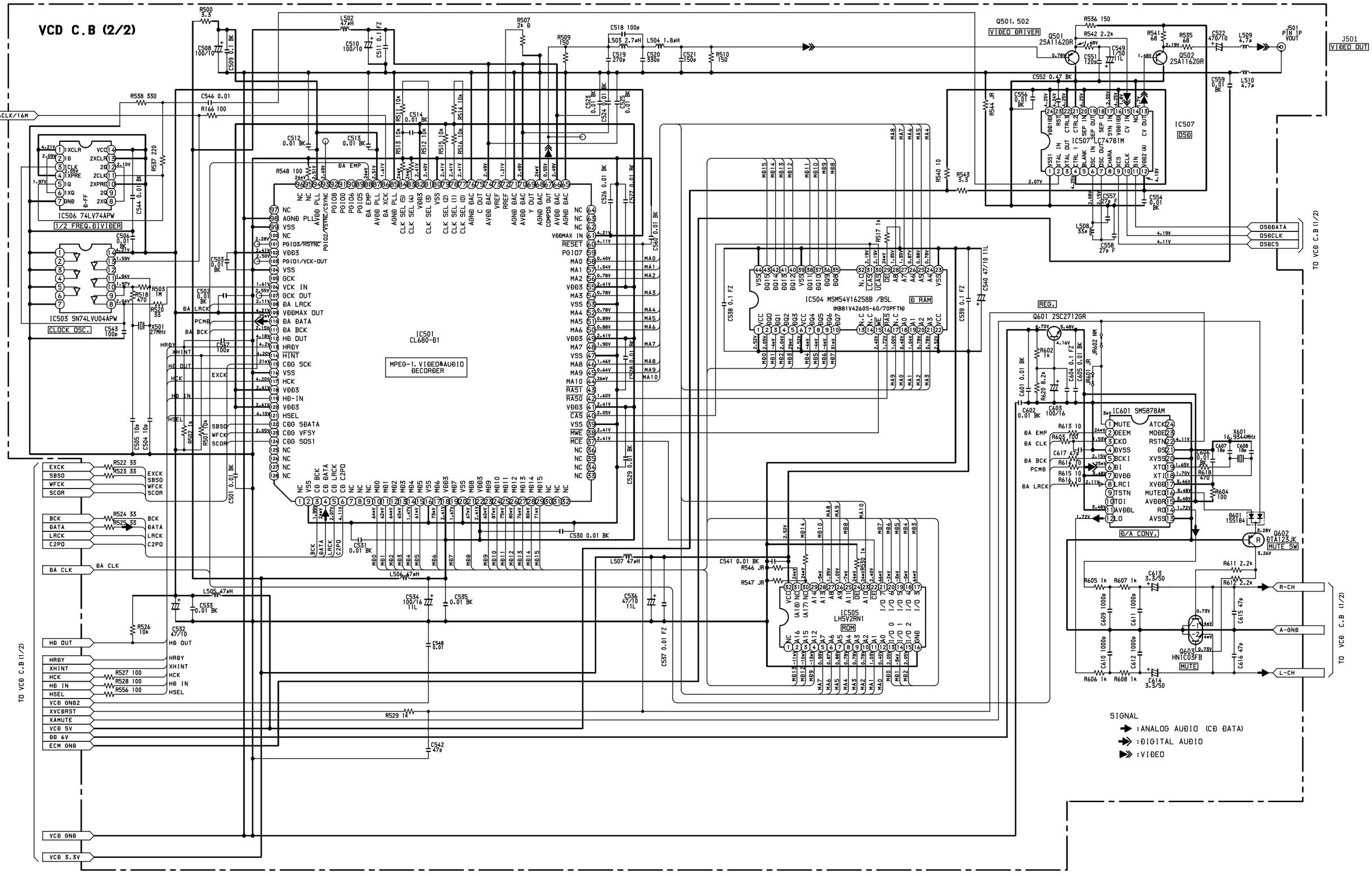
WIRING-4/5 (VCD: CONDUCTOR SIDE)

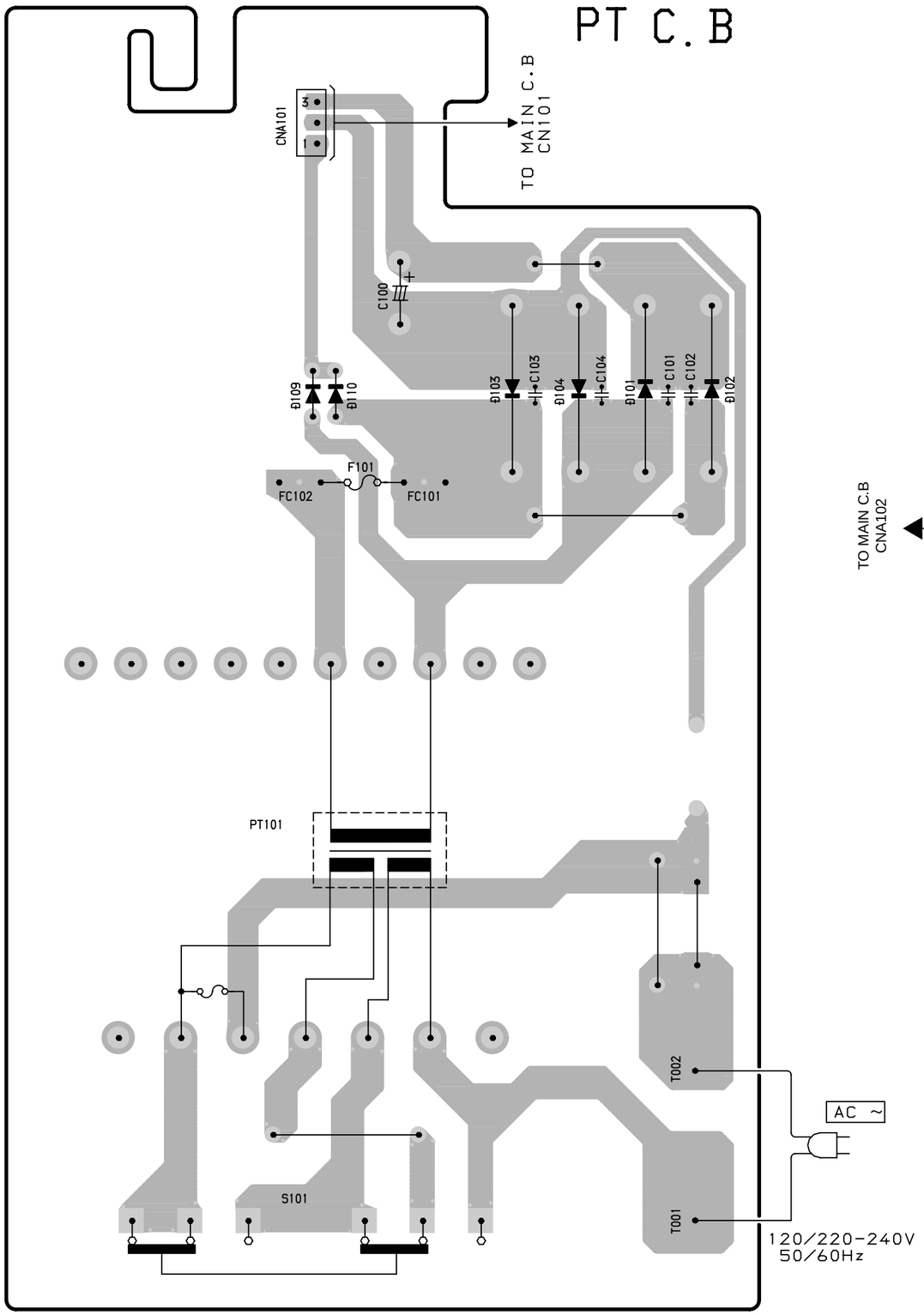


SCHEMATIC DIAGRAM-4/5 (VCD1/2)

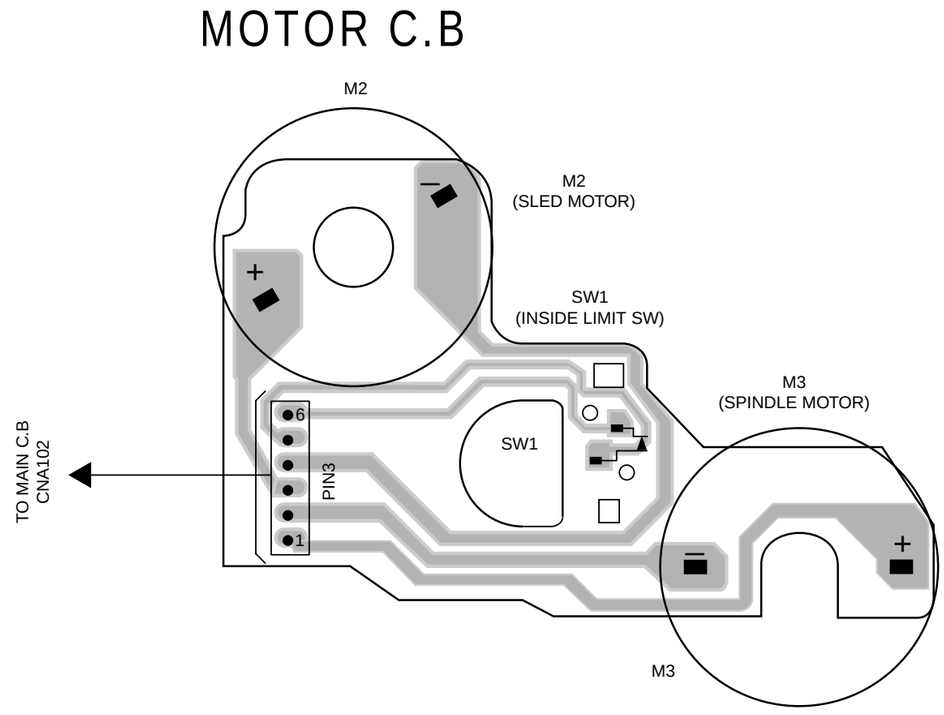


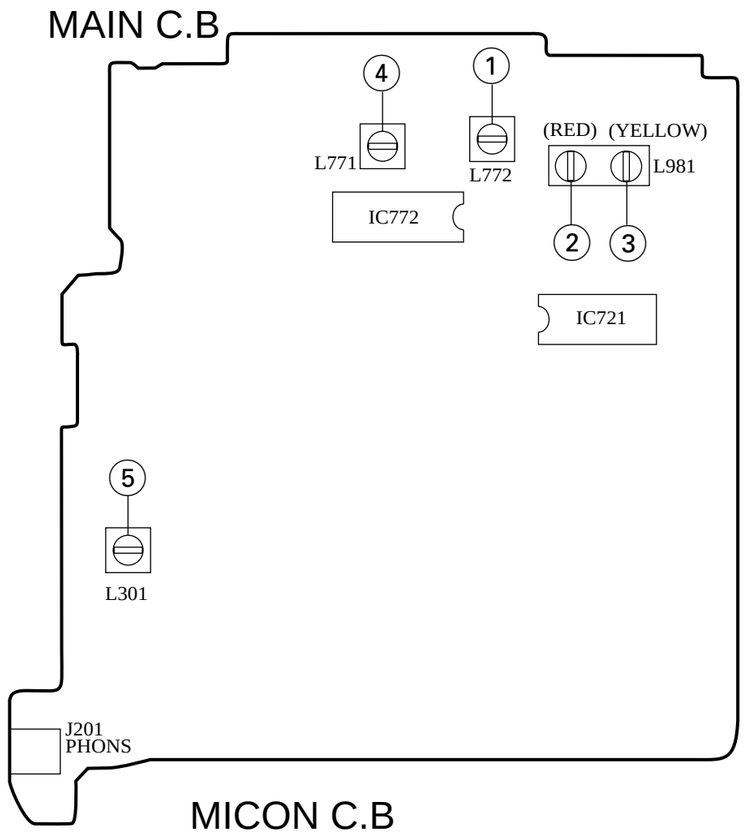
SCHEMATIC DIAGRAM-5/5 (VCD2/2)

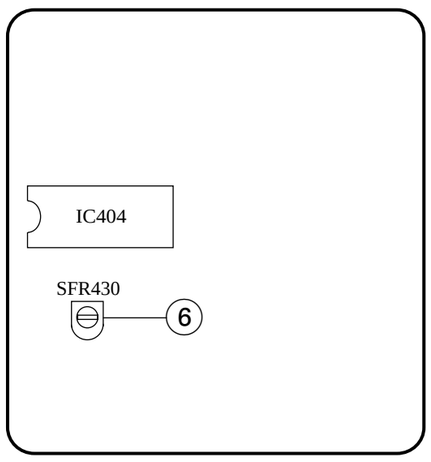


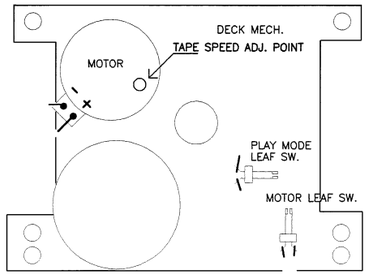


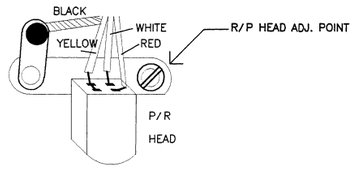
S101
AC VOLTAGE
220-240V⟷120V











	VERSION	APPROVED	CHECKED	PREPARED	DATE

	ADJUSTMENT ITEM	ADJ. POINT	TEST POINT	SET F.	SETTING
①	AM IF.	L772	Output	603KHz	Max output(mini. Distortion)
②	AM VT ADJ.	L981 RED	FFE801 4Pin to GND	1602KHz	6.9V (6.4V--7.4V) DC
	AM VT CHECK	-	FFE801 4Pin to GND	531KHz	1.46V(1.16V--1.76V) DC
③	AM TRACKING	L981 YELLOW	Output	603KHz	Max output(mini. Distortion)
	FM VT CHECK	-	FFE801 4Pin to GND	108MHz	<8.0V DC
	FM VT CHECK	-	FFE801 4Pin to GND	87.5MHz	<1.5V DC
④	DC BAL. ADJ.	L771	TP5 , TP6	98MHZ	0mV +/-20mV
⑤	REC. BIAS F.	L301	Both terminal of C321		85KHz +/- 3KHz
⑥	FOCUS BIAS ADJUSTMENT	SFR 430	FE & Vref		0mV +/- 20mV
	TEST SPEED	MOTOR	SPEAKER OUTPUT	-	3000Hz +3/-2%
	DECK R/P HEAD ADJ	R/P HEAD	SPEAKER OUTPUT	8KHz TEST TAPE	-

VOLTAGE CHART-1/1

FUNCTION : TAPE
TEST CONDITION : TAPE STOP
UPPER : Pin's Number / LOWER : Voltage

IC301 : BA4560N

1	2	3	4	5	6	7	8
3.5	3.5	3.5	0	3.5	3.5	3.5	7

IC201 : M62495AFP

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
2.7	0	2.7	2.7	2.7	2.7	2.7	2.5	2.7	2.7	2.7	5.3	2.7	0	2.7
16	**17**	**18**	**19**	**20**	**21**	**22**	**23**	**24**						
2.7	2.5	2.7	2.7	2.7	2.7	2.7	0	2.7						

IC101 : NJM7812FA

1	2	3
19.2	12.3	0

IC102 : NJM7812FA

1	2	3
19.2	8.1	0

IC103 : NJM78L06

1	2	3
19.1	5.9	0

Q101 : 2SB1370F

E	C	B
19.1	19.1	18.4

IC202 : TA8223K

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
0	18.5	10	18.9	9.9	18.6	0	18.9	9.9	0.6	0	0	0	0.6	0

FUNCTION : TUNER
TEST CONDITION : FM(87.5MHz),MW(531kHz)
UPPERE : Pin's Number / LOWER : Voltage

IC721 : LC7231D

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
2.6	0	0	0	0	5	–	9.5	0	0	0	0	10.4	0	0
2.6	0	0	0	0	5.1	–	0	10.6	0	0	0	10.5	0	2.6
16	**17**	**18**	**19**	**20**	**21**	**22**								
2.6	5.2	1	1	1	0	2.6								
O	5.3	1	1	1.6	0	2.6								

IC771 : LA1837NL

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
3.6	10.6	3.6	3.6	0	10.4	5.5	10.6	10.6	1.5	0.2	0	0.6	9.5	9.5
3.6	10.6	3.6	3.6	0	10.5	5.5	10.6	10.6	1.5	0	0	0.6	5.8	6.3
16	**17**	**18**	**19**	**20**	**21**	**22**	**23**	**24**	**25**	**26**	**27**	**28**	**29**	**30**
4.3	4.3	4.3	4.3	3.4	3.4	2.9	3.5	0.1	0	3.7	3.6	3.6	3.6	1.9
4.3	4.3	4.3	4.3	3.3	3.3	2.8	–	0.6	0.6	3.6	3.6	3.6	3.6	1.8

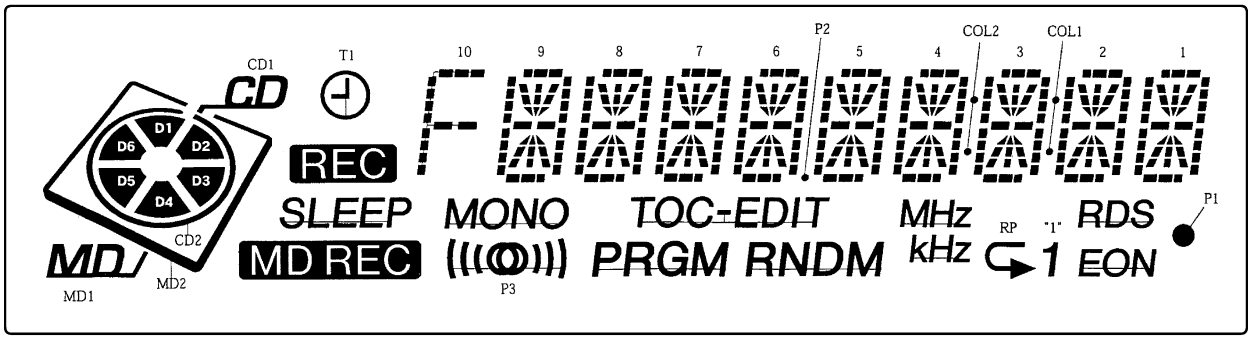
FUNCTION : CD
TEST CONDITION : CD STOP
UPPER : Pin's Number / LOWER : Voltage

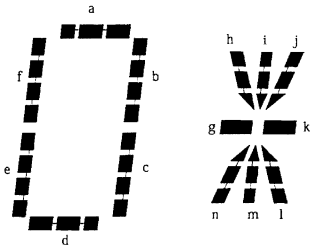
IC601 : LC877248A

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
0	0	0	0	0	0	0	5.2	5.2	5.2	5.1	5.1	0.1	0	2.5
16	**17**	**18**	**19**	**20**	**21**	**22**	**23**	**24**	**25**	**26**	**27**	**28**	**29**	**30**
2.6	5.1	5.2	0	1.8	5.2	0	5.2	0	0	–	2.7	0	5	0
31	**32**	**33**	**34**	**35**	**36**	**37**	**38**	**39**	**40**	**41**	**42**	**43**	**44**	**45**
0	0	0	0	0	0.1	0	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5
46	**47**	**48**	**49**	**50**	**51**	**52**	**53**	**54**	**55**	**56**	**57**	**58**	**59**	**60**
2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.6	5.3	0	2.5	2.5	2.6	2.5	2.5
61	**62**	**63**	**64**	**65**	**66**	**67**	**68**	**69**	**70**	**71**	**72**	**73**	**74**	**75**
2.5	2.5	2.5	2.6	2.5	2.5	2.5	2.5	2.5	2.5	2.6	2.5	2.5	2.5	2.5
76	**77**	**78**	**79**	**80**	**81**	**82**	**83**	**84**	**85**	**86**	**87**	**88**	**89**	**90**
2.5	2.5	2.5	2.5	0	0	0	2.6	2.6	2.6	2.6	0	0	0	5.3
91	**92**	**93**	**94**	**95**	**96**	**97**	**98**	**99**	**100**					
0	0	0	0	0	0.1	0	5.2	5.2	0					

FL (AIW4214-30PIN ACJ-11) GRID ASSIGNMENT/ANODE CONNECTION-1/1

GRID ASSIGNMENT





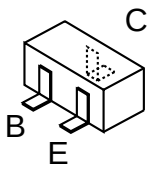
ANODE CONNECTION

No	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
COM1	— —	— —	— —	COM1	1a	1i	1h	1f	2a	2i	2h	COL1	3a	3i	3h
COM2	— —	— —	COM2	— —	1b	1j	1g	1e	2b	2j	2g	2f	3b	3j	3g
COM3	— —	COM3	— —	— —	1c	1k	1n	1d	2c	2k	2n	2e	3c	3k	3n
COM4	COM4	— —	— —	— —	P1	1l	1m	EON	RDS	2l	2m	2d	"1"	3l	3m

No	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
COM1	3f	— —	4a	4i	4h	4f	5a	5i	5h	5f	6a	6i	6h	6f	7a
COM2	3e	COL2	4b	4j	4g	4e	5b	5j	5g	5e	6b	6j	6g	6e	7b
COM3	3d	MHz	4c	4k	4n	4d	5c	5k	5n	5d	6c	6k	6n	6d	7c
COM4	RP	kHz	— —	4l	4m	— —	P3	5l	5m	RNDM	P2	6l	6m	PRGM	TOC-EDIT

No	31	32	33	34	35	36	37	38	39	40	41	42	43
COM1	7i	7h	7f	8a	8i	8h	8f	9a	9i	9h	9f	MD1	D3,D6
COM2	7j	7g	7e	8b	8j	8g	8e	9b	9j	9g	9e	T1	D2,D5
COM3	7k	7n	7d	8c	8k	8n	8d	9c	9k	9n	9d	CD1	CD2
COM4	7l	7m	MD REC	MONO	8l	8m	SLEEP	REC	9l	9m	10	MD2	D1,D4

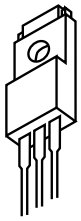
TRANSISTOR ILLUSTRATION-1/1



2SA1162
2SC2712
2SC2714
DTA123JK
DTA124XK
DTC114EK
RT1P144C
DTC124XK
RN1410

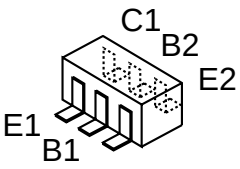
E C B
KTC3198
DTC114YS

E C B
2SC2001
2SD655
2SA952

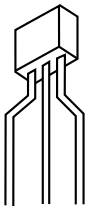


E C B
2SB1370F

E C B
2SA1357



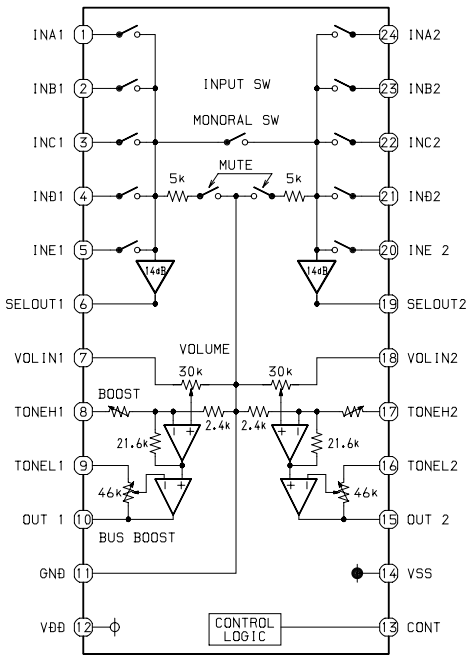
HN1C03F



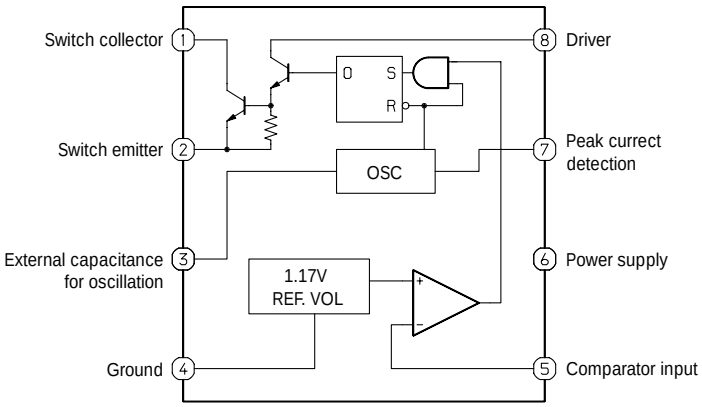
E C B
2SA933S

IC BLOCK DIAGRAM-1/1

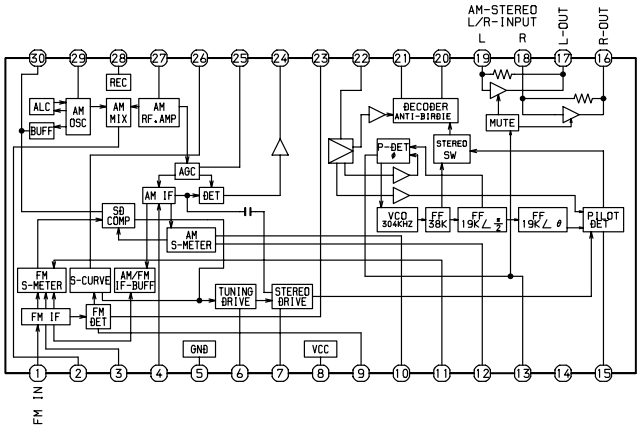
IC, M62495AFP



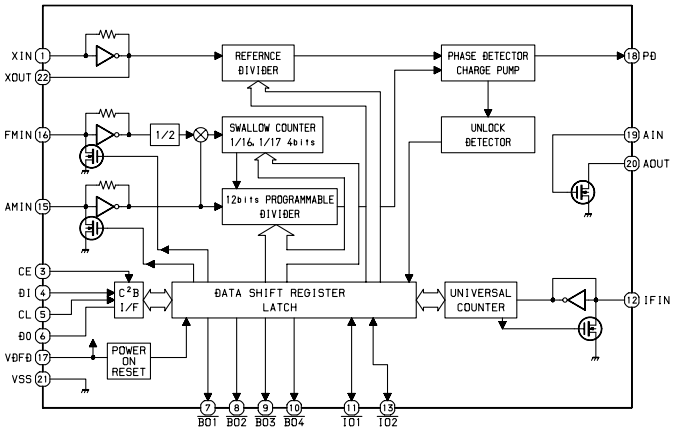
IC, M5291FP



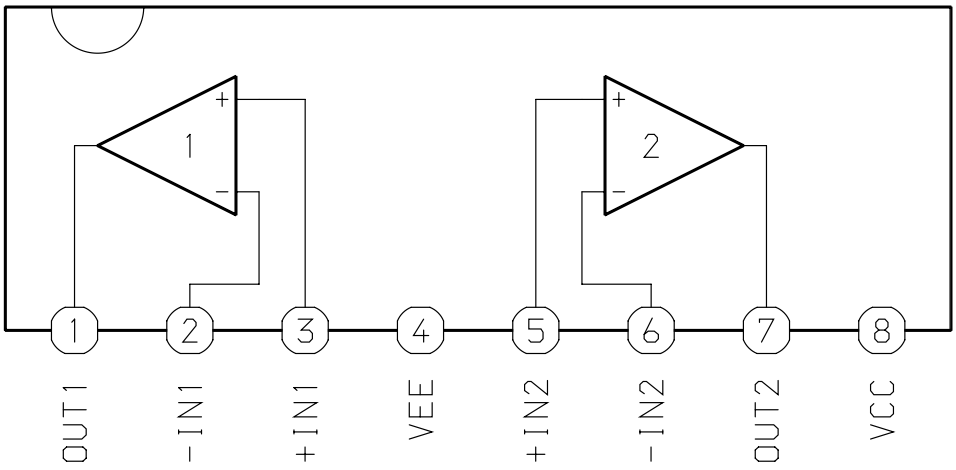
IC, LA1837NL



IC, LC72131D



IC, BA4560N



IC DESCRIPTION-1/7 (LC877248A-5R97)-1/2

Pin No.	Pin Name	I/O	Description
1	O-ARDY	O	Not connected.
2	O-SREQ	O	
3	O-SOUT	O	
4	I-SIN	I	
5	I-ACLK	I	
6	I-MREQ	I	
7	NC (SELECT)	O	Pull down.
8	O-PCONT	O	Main power control.
9	I-$\overline{\text{HOLD}}$	I	Hold status detection.
10	O-CLKSFT	O	Clock shift control.
11	I-RESET	I	Reset terminal.
12	XT1	I	Connected to VDD.
13	XT2	O	Not connected.
14	VSS1	—	GND.
15	CF1	I	External ceramics oscillator (5.76 MHz) is connected to this pin. (input)
16	CF2	O	External ceramics oscillator (5.76 MHz) is connected to this pin. (output)
17	VDD1	—	Power supply positive polarity (+) terminal.
18	I-JOGA	I	Jog dial detection A.
19	I-JOGB	I	Jog dial detection B.
20	I-KEY1	I	Tact key, AD input detection.
21	I-KEY	I	
22	I-RDSIG	I	RDS signal level input, AD input. (Not connected)
23	I-CTON	I	CT DECK power supply detection.
24	I-RDDT	I	RDS data input. (Not connected)
25	I-COLOR	I	LCD back light initial setting input.
26	I-TMBASE	I	8Hz clock reference frequency input.
27	I-INIT	I	Tuner destination, initial setting input.
28	I-RDCL	I	RDS clock input. (Not connected)
29	I-RMC	I	Remote controller receptor signal input.
30	I-CTPLAY	I	CT DECK PLAY detection.
31	I-CTREC	I	CT DECK REC detection.
32	O-TUCONT	O	Tuner power supply control.
33	O-TUCE	O	Tuner, Chip enable output for PLL communication.
34	O-TUDI	O	Tuner, Serial data output for PLL communication.
35	O-TUCL	O	Tuner, Clock output for PLL communication.
36	I-TUDO	I	Tuner, Serial data input for PLL communication.
37	I-$\overline{\text{STEREO}}$	I	Tuner stereo reception detection.
38	NC	—	Not connected.
39-53	S9-S23	O	LCD SEG terminal initial setting output. (No.43-29)
54	VDD2	—	Power supply positive polarity (+) terminal.
55	VCC2	—	GND.

Pin No.	Pin Name	I/O	Description
56-79	S24-S47	O	LCD SEG terminal initial setting output. (No.28-5)
80	I-DOOR	I	CD door detection.
81	I-WRQ	I	Sub-code Q reading stand-by for CD LSI communication.
82	I-DRF	I	RF level detection input.
83-86	COM0-COM3	O	LCD common output. (No.4-1)
87	O-CDCONT	O	CD/VCD power supply control.
88	I-STATUS	I	STATUS from VCD MICON.
89	VSS3	—	GND.
90	VDD3	—	Power supply terminal.
91	I/O-XBUSY	I/O	READY/BUSY I/O from VCD MICON.
92	O-SCK	O	SCK to VCD MICON.
93	O-COMMAND	O	COMMAND to VCD MICON.
94	O-LIGHT1	O	Control output 1 of LCD back light.
95	O-JOGLED	O	Not connected.
96	O-SCONTM	O	Sound processor control.
97	O-SCONTL	O	
98	O-MUTE	O	Audio signal mute output.
99	O-LIGHT2	O	Control output 2 of LCD back light.
100	O-SRST	O	Not connected.

Pin No.	Pin Name	I/O	Description
1	FEO	O	Output terminal for focus error amplifier. Internally connected to window comparator input for bias condition.
2	FEI	I	Input terminal for focus error.
3	FDFCT	I	Capacitor connection terminal for time constant used when there is defect.
4	FGD	I	This pin is connected to GND via capacitor when high frequency gain of the focus servo is attenuated.
5	FLB	I	This is a pin where the time constant is externally connected to raise the low frequency gain of the focus servo.
6	FE_O	O	Focus drive output.
7	FEM	I	Focus amplifier inverted input pin.
8	SRCH	I	This is a pin where the time constant is externally connected to generate the focus search waveform.
9	TGU	I	This is a pin where the selection time constant is externally connected to set the tracking servo the high frequency gain.
10	TG2	I	This is a pin where the selection time constant is externally connected to set the tracking high frequency gain.
11	FSET	I	Pin for setting peak of the phase compensator of the focus tracking.
12	TA_M	I	Tracking amplifier inverted input pin.
13	TA_O	O	Tracking drive output.
14	SL_P	I	Sled amplifier non-inverted input pin.
15	SL_M	I	Sled amplifier inverted input pin.
16	SL_O	O	Sled drive output.
17	ISET	I	The current which determines height of the focus search, track jump and sled kick is input with external resistance connected.
18	Vcc	I	Power supply.
19	LOCK	I	“L” setting starts sled disorder-prevention circuit. (Not pull-up resistance)
20	CLK	I	Clock input for serial data transfer from CPU. (No pull-up resistance)
21	XLT	I	Latch input from CPU. (No pull-up resistance)
22	DATA	I	Serial data input from CPU. (No pull-up resistance)
23	XRST	I	Reset system at “L” setting. (No pull-up resistance)
24	C_OUT	O	Signal output for track number counting.
25	SENS1	O	FZC, DFCT1, TZC, BALH, TGH, FOH, or ATSC is output depending on the command from CPU.
26	SENS2	O	DFCT2, MIRR, BALL, TGL or FOL is output depending on the command from CPU.
27	FOK	O	Output terminal for focus OK comparator.
28	CC2	I	Input pin where the DEFECT bottom hold output is capacitance coupled.
29	CC1	O	DEFECT bottom-hold output terminal. Internally connected to interruption comparator input.
30	CB	I	Connection terminal for DEFECT bottom-hold capacitor.
31	CP	I	Connection terminal for MIRR hold-capacitor. Anti-reverse input terminal for MIRR comparator.
32	RF_I	I	Input terminal by capacity combination of RF summing amplifier.

Pin No.	Pin Name	I/O	Description
33	RF_O	O	Output terminal of RF summing amplifier. Checkpoint of Eye pattern.
34	RF_M	I	Anti-reverse input terminal for RF summing amplifier. The gain of RF amplifier is decided by the connection resistance between RF_M and RFO terminals.
35	RFTC	I	This is a pin where the selection time constant is externally connected to control the RF level.
36	LD	O	APC amplifier output terminal.
37	PD	I	APC amplifier input terminal.
38, 39	PD1, PD2	I	RFI-V amplifier inverted input pin. These pins are connected to the A+C and B+C pins of the optical pickup, receiving by currents input.
40	FEBIAS	I/O	Bias adjustment pin of the focus error amplifier. (Not connected)
41, 42	F, E	I	F and EIV amplifier inverted input pins. These pins are connected to the F and E of the optical pickup, receiving by current input.
43	EI	—	Gain adjustment pin of the I-V amplifier E. (When not in use of BAL automatic adjustment)
44	VEE	—	GND connection pin.
45	TEO	O	Output terminal for tacking-error amplifier. Output E-F signal.
46	LPFI	I	BAL adjustment comparator input pin. (Input through LPF from TEO)
47	TEI	I	Input terminal for tracking error.
48	ATSC	I	Window-comparator input terminal for detecting ATSC.
49	TZC	I	Input terminal for tracking-zero cross comparator.
50	TDFCT	I	Capacitor connection pin for the time constant used when there is defect.
51	VC	O	Output terminal for DC voltage reduced to half of VCC+VEE.
52	FZC	I	Input terminal for focus-zero cross comparator.

Pin No.	Pin Name	I/O	Description
1	FOK	I	Focus OK input. Used for SENS output and the servo auto sequencer.
2	FSW	O	Spindle motor output filter switching output. (Not connected)
3	MON	O	Spindle motor on/off control output. (Not connected)
4	MDP	O	Spindle motor servo control. (Pin 5 is not connected)
5	MDS	O	
6	LOCK	O	High, when sampled value of GFS at 460Hz is high. Low, when sampled value of GFS at 460Hz is low by 8 times successively.
7	NC	—	Not used.
8	VCOO	O	Analog EFM PLL oscillation circuit output. (Not connected)
9	VCOI	I	Analog EFM PLL oscillation circuit input. fLOCK=8.6436MHz. (Connected to GND)
10	TEST	I	TEST pin. (Connected to GND)
11	PDO	O	Analog EFM PLL charge pump output.
12	VSS	—	GND.
13	PWMI	I	Spindle motor external control input.
14	V16M	O	VCO2 oscillation output for the wide-band EFM PLL.
15	VCTL	I	VCO2 control voltage input for the wide-band EFM PLL.
16	VPCO	O	Wide-band EFM PLL charge pump output.
17	VCKI	I	VCO2 oscillation input for the wide-band EFM PLL.
18	FILO	O	Multiplier PLL (slave=digital PLL) filter output.
19	FILI	I	Multiplier PLL filter input.
20	PCO	O	Multiplier PLL charge pump output.
21	AVSS	—	Analog GND.
22	CLTV	I	Multiplier VCO1 control voltage input.
23	AVDD	—	Analog power supply. (5V)
24	RF	I	EFM signal input.
25	BIAS	I	Constant current input of the asymmetry circuit.
26	ASYI	I	Asymmetry comparator voltage input.
27	ASYO	O	EFM full-swing output.
28	ASYE	I	Low: asymmetry circuit off; high: asymmetry circuit on.
29	NC	—	Not connected.
30	PSSL	I	Audio data output mode switching input. Low: serial output; high: parallel output. (Connected to GND)
31	WDCK	O	D/A interface for 48-bit slot. Word clock f=2Fs. (Not connected)
32	LRCK	O	D/A interface for 48-bit slot. LR clock f=Fs.
33	VDD	—	Power supply. (5V)
34	DATA	O	DA16 (MSB) output when PSSL=1. 48-bit slot serial data (two's complement, MSB first) when PSSL=0.
35	BCK	O	DA15 output when PSSL=1. 48-bit slot bit clock when PSSL=0.
36	DATA64	O	DA14 output when PSSL=1. 64-bit slot serial data (two's complement, LSB first) when PSSL=0. (Not connected)
37	BCK64	O	DA13 output when PSSL=1. 64-bit slot bit clock when PSSL=0. (Not connected)

Pin No.	Pin Name	I/O	Description
38	LRCK64	O	DA12 output when PSSL=1. 64-bit slot LR clock when PSSL=0. (Not connected)
39	GTOP	O	DA11 output when PSSL=1. GTOP output when PSSL=0. (Not connected)
40	XVCF	O	DA10 output when PSSL=1. XUGF output when PSSL=0. (Not connected)
41	XPCLK	O	DA09 output when PSSL=1. XPLCK output when PSSL=0. (Not connected)
42	GFS	O	DA08 output when PSSL=1. GFS output when PSSL=0.
43	RFCK	O	DA07 output when PSSL=1. RFCK output when PSSL=0. (Not connected)
44	C2PO	O	DA06 output when PSSL=1. C2PO output when PSSL=0.
45	XRAOF	O	DA05 output when PSSL=1. XRAOF output when PSSL=0. (Not connected)
46	MNT3	O	DA04 output when PSSL=1. MNT3 output when PSSL=0. (Not connected)
47	MNT2	O	DA03 output when PSSL=1. MNT2 output when PSSL=0. (Not connected)
48	MNT1	O	DA02 output when PSSL=1. MNT1 output when PSSL=0. (Not connected)
49	MNT0	O	DA01 output when PSSL=1. MNT0 output when PSSL=0. (Not connected)
50	APTR	O	Aperture compensation control output. This pin outputs a high signal when the right channel is used. (Not connected)
51	APTL	O	Aperture compensation control output. This pin outputs a high signal when the left channel is used. (Not connected)
52	VSS	—	GND.
53	XTAI	I	Crystal oscillation circuit input.
54	XTAO	O	Crystal oscillation circuit output. (Not connected)
55	XTSL	I	Crystal selector input.
56	FSTT	O	2/3 frequency divider output for Pins 53 and 54. (Not connected)
57	FSOF	O	1/4 frequency divider output for Pins 53 and 54. (Not connected)
58	C16M	O	16.9344MHz output. (V16M output in CLV-W and CAV-W modes) (Not connected)
59	MD2	I	Digital-out on/off control. High: on; low: off
60	DOUT	O	Digital-out output.
61	EMPH	O	Outputs a high signal when the playback disc has emphasis, and a low signal when there is no emphasis.
62	WFCK	I	WFCK (write frame clock) output.
63	SCOR	O	Outputs a high signal when either subcode sync S0 or S1 is detected.
64	SBSO	O	Sub P to W serial output.
65	EXCK	I	SBSO readout clock input.
66	SQSO	O	Sub Q 80-bit and PCM peak, level metter and internal status outputs.
67	SQCK	I	SQSO readout clock input.
68	MUTE	I	High: mute; low: release
69	SENS	—	SENS output to CPU.
70	XRST	I	System reset. Reset when low.
71	DATA	O	Serial data input from CPU.
72	XLAT	O	Latch input from CPU. Serial data is latched at the falling edge.
73	VDD		Power supply. (5V)
74	CLOK	O	Serial data transfer clock input from CPU.
75	SEIN	I	SENS input from SSP.

Pin No.	Pin Name	I/O	Description
76	CNIN	I	Track jump count signal input.
77	DATO	O	Serial data output to SSP.
78	XLTO	O	Serial data latch output to SSP. Latched at the falling edge.
79	CLKO	O	Serial data transfer clock output to SSP.
80	MIRR	I	Mirror signal input. Used when the number of tracks is 128 or more for the 2N-track jump and M track move of the auto sequencer.

Notes)

- The 64-bit slot is an LSB first, two's complement output, and the 48-bit slot is an MSB first, two's complement output.
- GTOP is used to monitor the frame sync protection status. (High: sync protection window open.)
- XUGF is the negative pulse for the frame sync obtained from the EFM signal. It is the signal before sync protection.
- XPLCK is the inverse of the EFM PLL clock. The PLL is designed so that the falling edge and the EFM signal transition point coincide.
- GFS goes high when the frame sync and the insertion protection timing match.
- RFCK is derived from the crystal accuracy, and has a cycle of 136µ.
- C2PO represents the data error status.
- XRAOF is generated when the 32K RAM exceeds the ±28F jitter margin.

Pin No.	Pin Name	I/O	Description
1	NC	—	No connection.
2	VSS	—	GND.
3	CD BCK	I	Bit clock input from CD DSP.
4	CD DATA	I	Data input from CD DSP.
5	CD LRCK	I	LRCK input from CD DSP.
6	CD C2PO	I	C2 pointer input from CD DSP.
7-9	NC	—	No connection.
10-15	MD0-MD5	I/O	DRAM/ROM interface. (DATA)
16	VSS	—	Ground.
17	MD6	I/O	DRAM/ROM interface. (DATA)
18	VDD3	—	Power supply 3.3V.
19	MD7	I/O	DRAM/ROM interface. (DATA)
20	VSS	—	Ground.
21	MD8	I/O	DRAM/ROM interface. (DATA)
22	VDD3	—	Power supply 3.3V.
23-29	MD9-MD15	I/O	DRAM/ROM interface. (DATA)
30-36	NC	—	No connection.
37	$\overline{\text{MCE}}$	—	ROM chip enable.
38	$\overline{\text{MWE}}$	O	DRAM write enable.
39	VSS	—	Ground.
40	$\overline{\text{CAS}}$	O	DRAM/ROM interface.
41	VDD3	—	Power supply 3.3V.
42	$\overline{\text{RASO}}$	O	DRAM/ROM interface. (Pin 43 is no connection)
43	$\overline{\text{RASI}}$	O	
44-46	MA10-MA8	O	DRAM/ROM interface. (Address)
47	VSS	—	Ground.
48	MA7	O	DRAM/ROM interface. (Address)
49	VDD3	—	Power supply 3.3V.
50-52	MA6-MA4	O	DRAM/ROM interface. (Address)
53	VSS	—	Ground.
54	MA3	O	DRAM/ROM interface. (Address)
55	VDD3	—	Power supply 3.3V.
56-58	MA2-MA0	O	DRAM/ROM interface. (Address)
59	PGIO7	I/O	Programmable I/O. (No connection)
60	$\overline{\text{RESET}}$	I	Reset input.
61	VDD MAX IN	—	Power supply - VDDMAX. (5.0V)
62-64	NC	—	No connection.
65	AGND DAC	—	Analog ground.
66	A DAC	—	Analog power supply (DAC) : 3.3V.
67	COMP OUT	O	Composite out.
68	AGND DAC	—	Analog ground.

Pin No.	Pin Name	I/O	Description
69	Y OUT	O	Video signal “Y” OUT. (No connection)
70	AVDD DAC	—	Analog power supply (DAC) 3.3V.
71	AGND DAC	—	Analog ground.
72	R REF	I	Reference resistor input.
73	V REF	I	Voltage reference input.
74	AVDD DAC	—	Analog power supply (DAC) : 3.3V.
75	C OUT	O	Video signal “C” out. (No connection)
76	AGND DAC	—	Analog ground.
77-79	CLK SEL0-2	I	Clock selection input.
80	VSS	—	Ground.
81	CLK SEL3	I	Clock selection input.
82	VDD3	—	Power supply 3.3V.
83, 84	CLK SEL4, 5	I	Clock selection input.
85	AGND PLL	—	Analog ground.
86	DA XCK	I	DA XCK (16.933MHz) input.
87	AVDD PLL	—	Analog power supply 3.3V.
88	DA EMP	O	DAC-emphasis output.
89, 90	PGIO5, O6	I/O	Programmable I/O. (No connection)
91	PGIO0	I/O	
92	PGIO8	I/O	
93	$\overline{\text{VSYNC}}$/$\overline{\text{CSYNC}}$	O	$\overline{\text{VSYNC}}$/$\overline{\text{CSYNC}}$ output.
94	AVDD PLL	—	Analog power supply (PLL) 3.3V.
95	VID_DAC_CK	O	Video DAC clock.
96	PROC_CK	O	Processor clock. (No connection)
97	AUD_XCK	O	Audio XCK. (No connection)
98	AGND PLL	—	Analog ground.
99	VSS	—	Ground.
100	NC	—	No connection.
101	$\overline{\text{HSYNC}}$	O	$\overline{\text{HSYNC}}$ output.
102	VDD3	—	Power supply 3.3V.
103	VCK OUT	O	VCK out.
104	VSS	—	Ground.
105	GCK	I	Global clock signal input. (42.3MHz) (No connection)
106	VCK IN	I	Video clock signal input. (27.0MHz)
107	GCK OUT	O	Global clock signal output. (27.0MHz)
108	DA LRCK	O	DAC-LRCK output.
109	VDD MAX OUT	—	Power supply (VDD MAX) : 5.0V.
110	DA DATA	O	DAC-PCM data output.
111	DA BCK	O	DAC-BIT clock output.
112	HD OUT	O	Micon interface. (Data out)
113	HRDY	O	Micon interface. (Host ready)

Pin No.	Pin Name	I/O	Description
114	$\overline{\text{HINT}}$	O	Micon interface. (Host interrupt)
115	CDG SCK	I	CD-G serial clock input.
116	VSS	—	Ground.
117	HCK	I	Micon interface. (Host clock)
118	VDD3	—	Power supply 3.3V.
119	HD IN	I	Micon interface. (Host data in)
120	VDD3	—	Power supply 3.3V.
121	HSEL	I	Micon interface. (Host select in)
122	CDG SDATA	I	CD-G data input.
123	CDG VFSY	I	CD-G VFSY input.
124	CDG SOSI	I	CD-G SOSI input.
125	DSP-XCK	O	DSP-XCK output. (No connection)
126-128	NC	—	No connection.

Pin No.	Pin Name	I/O	Description
1	VSS1	—	GND connection terminal. (Digital ground terminal)
2	Xtal IN	I	External X'tal and capacitor for internal sync generator, or the external clock are connected to this terminal. (2fsc or 4fsc)
3	Xtal OUT	O	
4	CTRL1	I	Either the external clock input mode or the X'tal generator mode is selected by this selector terminal. L: X'tal generator mode, H: External clock input.
5	BLANK	O	Blank signal (character and the green ORed signal) is output from this terminal. (MODE 0: composite sync signal is output at H) When reset ($\overline{RST}$ terminal = L), the X'tal clock signal is output. (It is not output when reset by the reset command)
6	OSC IN	I	External coil and capacitor for the character output dot clock generator are connected to this terminal.
7	OSC OUT	O	
8	CHARA	O	The character signal is output from this terminal. (MOD 0: when H, the external sync signal identification signal is output from this terminal. This output signal tells whether the external sync signal is present or not. When external sync signal is present, H is output) When reset ($\overline{RST}$ terminal = L), the dot clock signal (LC oscillator) is output. (It is not output when reset by the reset command)
9	$\overline{CS}$	I	Enable signal for the serial data input is input to this terminal. The serial data input is enabled at L. Pull-up resistor is built-in. (Hysteresis input)
10	SCLK	I	Clock of the serial data input is input to this terminal. Pull-up resistor is built-in. (Hysteresis input)
11	SIN	I	Serial data input terminal. Pull-up resistor is built-in. (Hysteresis input)
12	VDD2	—	Power supply for the composite video signal level adjustment. (Analog power supply)
13	CV OUT	O	Composite video signal output terminal.
14	NC	—	Connected to GND or not connected.
15	CV IN	I	Composite video signal input terminal.
16	VDD1	—	Power supply. (+5V digital power supply)
17	SYN IN	I	Video signal for the internal sync separator circuit is input to this terminal. (When the internal sync separator circuit is not used, the horizontal sync signal or composite sync signal is input to this terminal)
18	SEP C	—	Internal sync separator circuit bias voltage monitoring terminal.
19	SEP OUT	O	The composite sync output signal of the internal sync separator circuit is output from this terminal. (H: MOD 1. H: during internal sync mode. L: during external sync mode) (When internal sync separator circuit is not used, the SYN IN input signal is output from this terminal)
20	SEP IN	I	The output signal of the SEP OUT terminal is integrated so that the vertical sync signal is input to this terminal. An integrator circuit must be connected between the SEP OUT terminal and this terminal. When this terminal is not used, it must be connected to VDD1.
21	CTRL2	I	When selecting any of the NTSC or PAL or PAL-M or PAL-N system, the pin setting has priority. When L, the NTSC system is selected after resetting. Selection of either NTSC or PAL or PAL-M or PAL-N system by the command becomes effective. H: PAL-M system.
22	CTRL3	I	Controls whether or not to input the $\overline{VSYNC}$ signal to the SEPIN input. L: to input the $\overline{VSYNC}$ signal. H: not to input the $\overline{VSYNC}$ signal.
23	$\overline{RST}$	I	System reset input terminal. Pull-up resistor is built-in. (Hysteresis input)

Pin No.	Pin Name	I/O	Description
24	VDD1	—	Power supply. (+5V digital power supply)

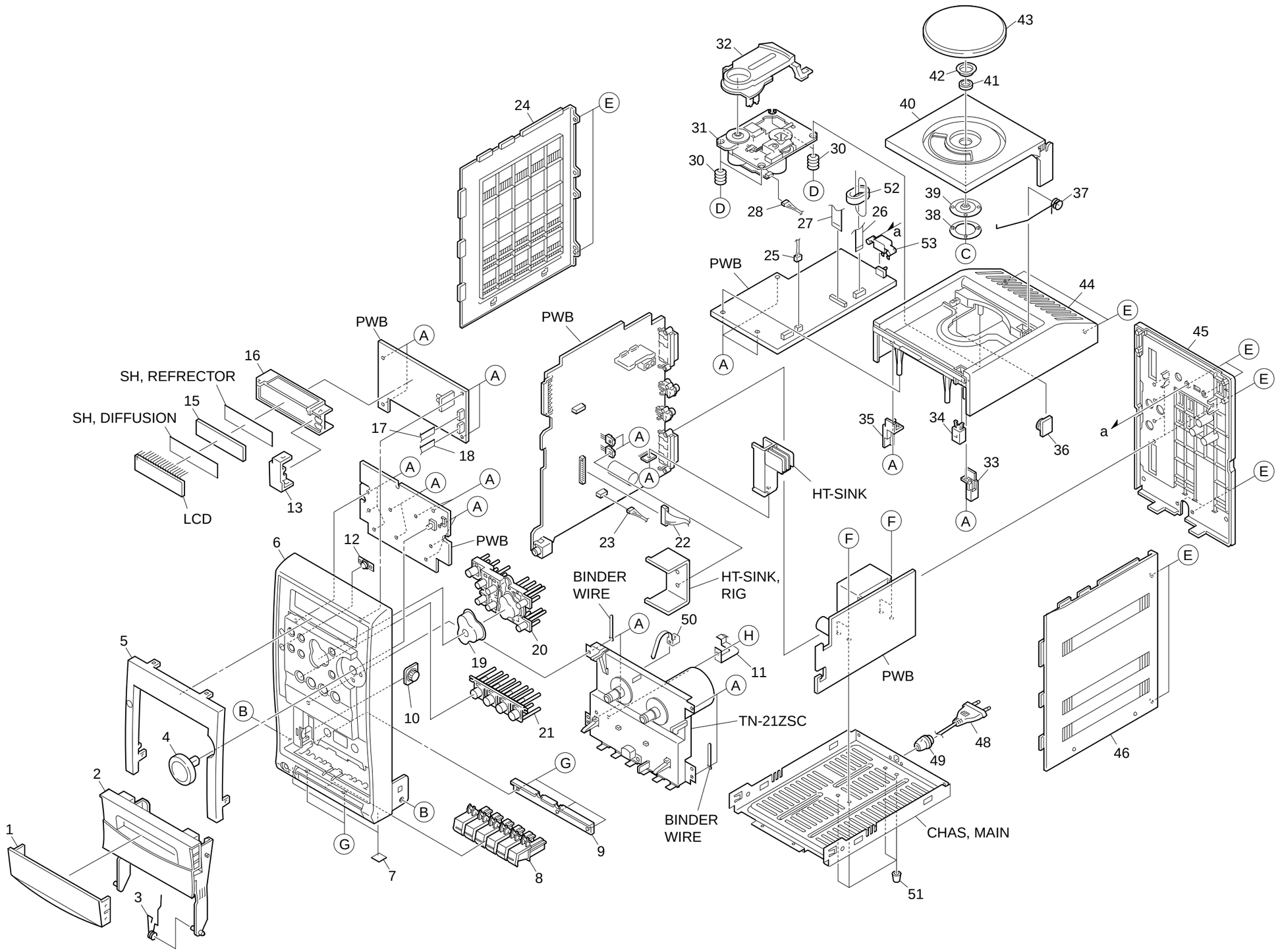
IC DESCRIPTION-6/7 (µPD78016FGC-578-AB8)-1/2

Pin No.	Pin Name	I/O	Description
1	RBPLS	O	RADIAL BALANCE PLUS.
2	AMUTE	O	AUDIO ANALOG MUTE. (H=MUTE ON)
3	GFS	I	GFS.
4	XVCDMD	O	AUDIO/VIDEO CD MODE. (L=VCD=SPINDLE GAIN UP)
5	MD2	O	DOUT MUTE CONT.
6	EMPH	I	EMPHASIS.
7	SQSO	I	SQDATA FROM CD.
8	SQCK	O	SQCLK TO CD.
9	VSS	—	GND.
10	SWNT	I	SW TV OUT MODE. (L=NTSC)
11	SWAUTO	I	SW TV OUT MODE. (L=NTSC/PAL AUTO)
12	SWPAL	I	SW TV OUT MODE. (L=PAL)
13	EMERG	I	POWER EMERGENCY STOP. (L≠3sec=STOP)
14	MJSW	I	MIC DETECTION INPUT. (L=MIC IN)
15	NC	I	Not used. (Connected to GND)
16	LPCSEL	I	“LPC ON/OFF (H=ON, NORMAL)”.
17	LOCK	O	GFS (FRAME SYNC) LOCK. (NO USE=H) (Not connected)
18	DMUTE	O	DIGITAL DATA OUT MUTE.
19	SENS	I	DSP SENS1 FROM CD.
20	XCDRST	O	CD RESET.
21	DATA	O	DATA TO CD.
22	XLAT	O	XLT TO CD.
23	CLOK	O	CLK TO CD.
24	VSS	—	GND.
25	FOK	I	FOCUS OK.
26	SENS2	I	SSP SENS2 FROM CD.
27	XBUSY	I/O	READY/BUSY I/O TO HOST OD.
28	MPGON	O	MPEG POWER CONTROL OUTPUT. H=VCD. (Not connected)
29	AC/DC	I	AC/DC DETECTION INPUT. H=AC.
30	CDLID	I	CD LID SWITCH STATUS INPUT. H=OPEN.
31	TST0	I/O	CHECK LAND.
32	TST1	I/O	
33	TST2	I/O	
34	TST3	I/O	
35	RESET	I	RESET.
36	HRDY	I	HRDY FROM CL680.
37	XHINT	I	XHINT FROM CL680.
38	RWSEL	O	CD-RW SELECT1. L=CD-RW.
39	SCOR	I/O	SCOR FROM CD.
40	VDD	—	5.0VDD.
41	XO	O	8.0MHz CERALOCK.

Pin No.	Pin Name	I/O	Description
42	XI	I	8.0MHz CERALOCK.
43	VSS	—	GND.
44	XT2	—	Not connected.
45	XT1	I	5.0VDD.
46	AVSS	—	GND.
47	XMPGRST	O	MPEG BLOCK IC RESET.
48	HSEL	O	ADDRESS/DATA SEL TO CL680.
49	INLSW	I	INSIDE LIMIT SW.
50	NC	—	Not connected.
51	OSDXCS	O	OSD CHIP SELECT.
52	ABSEL	I	CXA1992A/B SELECT. (L=CXA1992A)
53	CLVSEL	I	CLV MODE SELECT. (H=CLV-N) (Not connected)
54	AADSEL	I	AUTO ADJUST SELECT. (H=AUTO ON) (Not connected)
55	AVDD	—	5.0VDD.
56	AVREF	—	
57	HDOUT	I	HD-OUT FROM CL680.
58	HDIN	O	HD-IN FROM CL680.
59	HCK	O	HCK TO CL680.
60	OSDDATA	O	OSD DATA.
61	OSDCLK	O	OSD CLOCK.
62	COMMAND	I	COMMAND FROM HOST.
63	STATUS	O	STATUS TO HOST.
64	SCK	I	SCK FROM HOST.

Pin No.	Pin Name	I/O	Description
1	MUTE	I	MODE = H: Soft mute ON/OFF terminal. (Mute at H) MODE = L: Attenuator level DOWN/UP terminal. (DOWN at H)
2	DEEM	I	De-emphasis ON/OFF terminal. (De-emphasis ON at H)
3	CKO	O	Oscillator clock output. (16.9344 MHz)
4	DVSS	—	Digital VSS terminal.
5	BCKI	I	Bit clock input terminal.
6	DI	I	Serial data input terminal.
7	DVDD	—	Digital VDD terminal.
8	LRCI	I	Sample rate clock (fs) input terminal. (H = L ch/L = R ch)
9	TSTN	I	Test input. (“H” or open during normal operation) (Not connected)
10	TO1	O	Test output 1. (Normally low level output) (Not connected)
11	AVDDL	—	Analog VDD terminal. (For L ch)
12	LO	O	Left channel analog output terminal.
13	AVSS	—	Analog VSS terminal.
14	RO	O	Right channel analog output terminal.
15	AVDDR	—	Analog VDD terminal. (For R ch)
16	MUTEO	O	Infinity zero detection output.
17	XVDD	—	X’tal system VDD terminal.
18	XTI	I	X’tal oscillator terminal. (Or external clock input terminal of 16.9344 MHz)
19	XTO	O	X’tal oscillator terminal.
20	XVSS	—	X’tal system VSS terminal.
21	DS	I	Double-speed/normal playback selection. (Double-speed at H)
22	RSTN	I	Reset terminal. (Reset at L)
23	MODE	I	Soft mute/Attenuator mode selection. (Soft mute at H) (Not connected)
24	ATCK	I	Attenuator level setup clock (Ignored when MODE = H) (Not connected)

MECHANICAL EXPLODED VIEW-1/1



MECHANICAL PARTS LIST-1/1

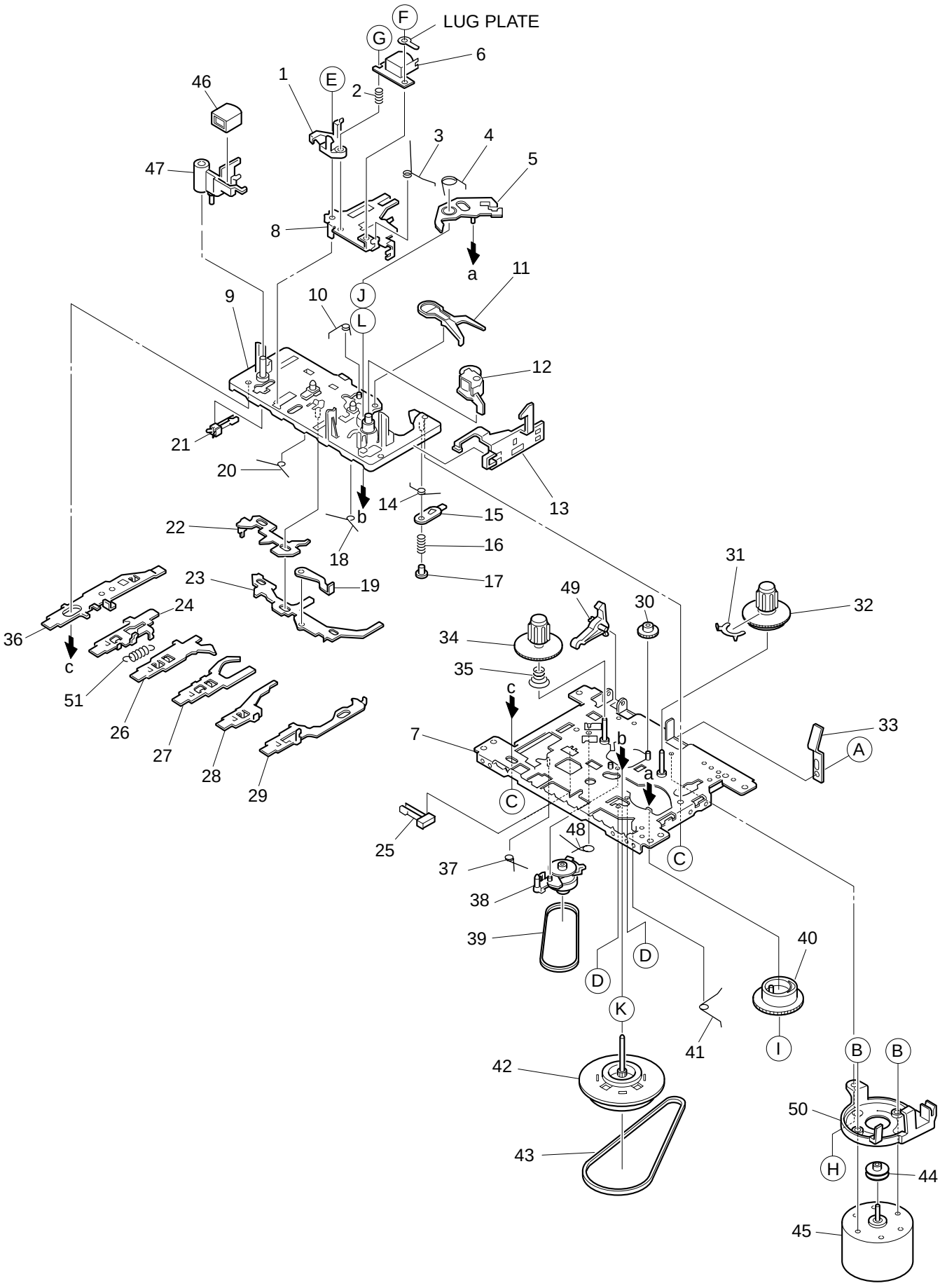
REF. NO	PART NO.	KANRI NO.	DESCRIPTION
1	8A-CJB-044-010		WINDOW,CASS (S)
2	8A-CGC-005-010		LID,CASS
3	8A-CJB-221-010		SPR-T,CASS
4	8A-CJB-020-010		KNOB,RTRY JOG
5	8A-CLC-028-010		WINDOW,DISP (DS)
6	8A-CGC-004-010		CABI,FRONT
7	8A-CJB-061-010		CUSH,FOOT MAIN
8	8A-CJB-019-010		KEY,CASS
9	8A-CJB-207-010		HLDR,KEY CASS
10	86-NFZ-231-010		DMPR,70
11	8A-CLC-207-010		SPR-P,REC
12	8A-CJB-012-010		WINDOW,RC
13	8A-CJB-210-010		COVER,LED
15	8A-CJB-218-010		PLATE,REFRECTOR
16	8A-CJB-208-010		GUIDE,LCD
17	88-908-101-110		FF-CABLE, 8P 1.25 10MM
18	88-907-121-110		FF-CABLE, 7P 1.25 120MM
19	8A-CGC-009-010		COVER, KEY FUNC
20	8A-CLC-002-010		KEY,CONT A
21	8A-CGC-014-010		KEY,CONT B MASK
22	8A-CJB-625-010		CONN ASSY,10P DECK
23	8A-CLC-610-010		CONN ASSY,3P POWER
24	8A-CJB-003-010		PANEL,L
25	8A-CJB-626-010		CONN ASSY,2P CD DOOR
26	8A-CGC-609-010		FF-CABLE,7P 1.25 250MM
27	8A-CGC-608-010		FF-CABLE,16P 1.0 150MM
28	8A-CJB-623-010		CONN ASSY,6P CD MOTOR
30	88-CH6-220-010		CUSHION,CD A
31	M8-ZZK-E90-070		DA11T3C
32	8Z-CDB-169-010		PANEL,CD SANYO
33	8A-CJB-206-010		HLDR,CHAS CD R
34	87-036-389-010		SW,PUSH LOCK
35	8A-CJB-205-010		HLDR,CHAS CD L
36	8Z-NF6-210-010		DMPR,150 N
37	8A-CLC-206-010		SPR-T,CD
38	88-CD9-211-210		RING,CHUCK
39	8Z-CDB-170-010		BASE,CHUCK
40	8A-CLC-026-010		LID,CD (DS)
41	87-036-368-010		MAGNET
42	84-CT5-209-010		PLATE,MAGNET
43	8A-CJB-042-010		WINDOW,CD (S)
44	8A-CJB-005-010		CHAS,CD
45	8A-CGC-003-010		PANEL,REAR H
46	8A-CJB-004-010		PANEL,R
⚠ 48	87-A80-083-010		AC CORD,HC BLK
⚠ 49	87-085-185-010		BUSHING, AC CORD (E)
50	87-A90-193-010		HLDR,CV100 (B)
51	8Z-NB8-240-010		COVER, PL
52	87-A91-894-010		F-BEAD, E2010JET
53	8A-CGC-201-010		HLDR,SW SL
A	87-067-703-010		TAPPING SCREW, BVT2+3-10
B	87-723-095-410		QT2+3-8 BLK
C	87-253-033-110		SCREW,U+2-4
D	8A-CK4-223-010		S-SCREW,CD
E	87-B10-230-010		BVT2+3-10 W/O SLOT SILVER CR
F	87-067-586-010		TAPPING SCREW, BVT2+4-8
G	87-078-150-010		BVT2+3-6 SIL
H	87-571-032-410		VIT+2-3

NOTE: No.14, 29 and 47 are not used.

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		

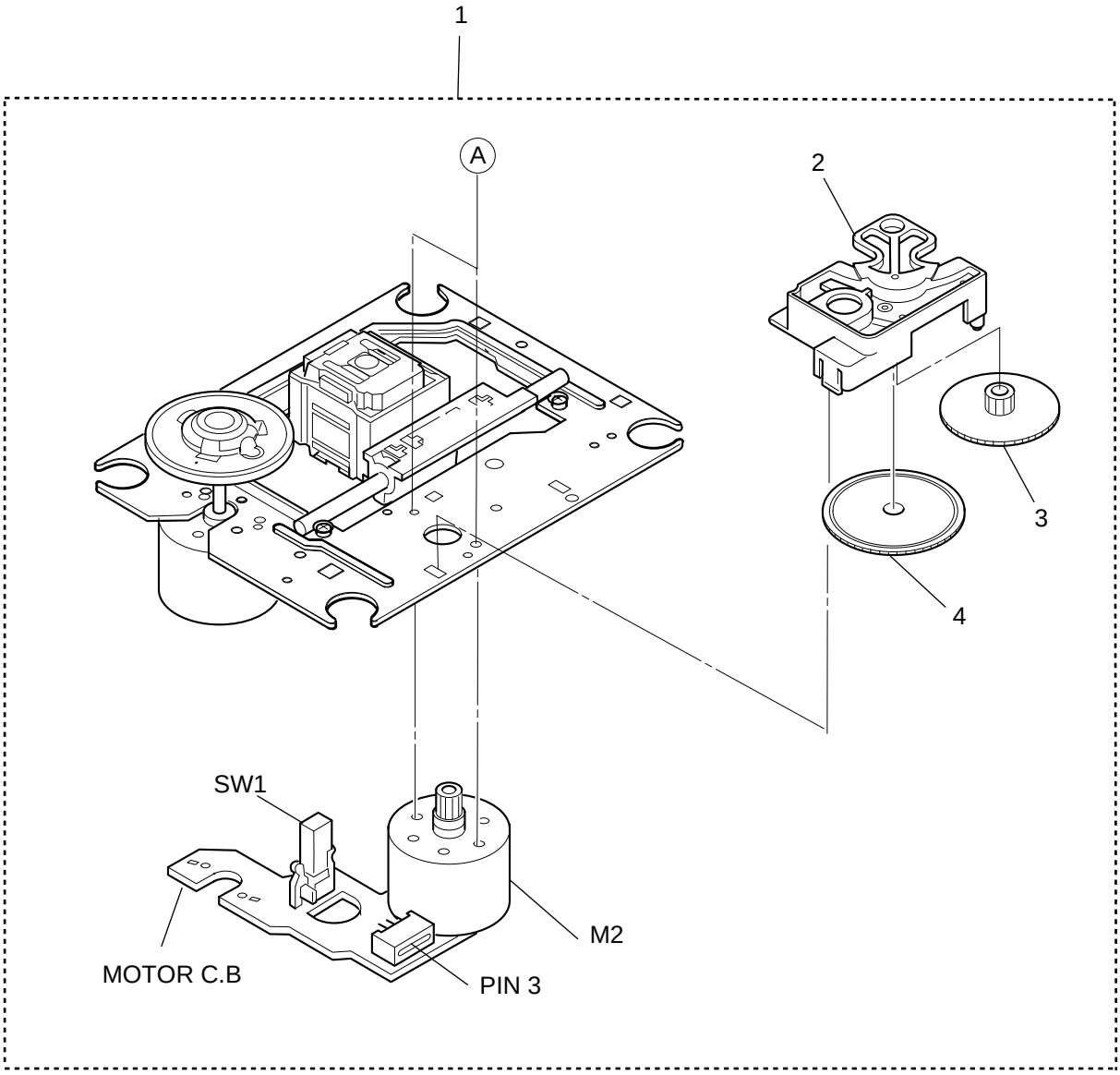
TAPE MECHANISM EXPLODED VIEW-1/1 (TN21ZSC)



TAPE MECHANISM PARTS LIST-1/1 (TN21ZSC)

REF. NO	PART NO.	KANRI NO.	DESCRIPTION
1	S1-921-030-4A0		HEAD BASE
2	S1-821-030-070		AZIMUTH SPRING
3	S1-921-030-090		PANEL P SPRING
4	S1-921-260-050		GEAR PLATE SPRING
5	S1-921-265-020		GEAR PLATE ASSY
6	S6-201-011-110		HEAD,RP7442ES-0951
7	S1-921-015-010		CHASSIS ASSY
8	S1-921-030-110		HEAD PANEL
9	S1-921-143-160		BASE ASSY
10	S1-921-141-8A0		M CONTROL SPRING
11	S1-921-260-4A0		SENSING LEVER
12	S1-921-043-100		PINCH ROLLER ARM ASSY
13	S1-921-130-020		EJECT SLIDE LEVER
14	S1-921-141-3A0		P CONTROL SPRING
15	S1-921-140-550		PAUSE LEVER(E)
16	S1-921-140-120		PAUSE LEVER SPRING
17	S1-921-140-110		PAUSE STOPPER
18	S1-921-140-150		BUTTON LEVER SPRING(B)
19	S1-821-011-590		E KICK LEVER
20	S1-921-141-070		BUTTON LEVER SPRING(A)
21	S6-401-011-490		LEAF SW MSW-1541T
22	S1-921-140-090		SWITCH ACTUATOR
23	S1-921-140-080		PUSH BUTTON ACTUATOR
24	S1-921-140-230		PLAY BUTTON LEVER
25	S6-401-011-610		LEAF SW MSW-17820MVEI
26	S1-921-140-240		REW BUTTON LEVER
27	S1-921-140-250		FF BUTTON LEVER
28	S1-921-140-260		STOP BUTTON LEVER
29	S1-921-140-610		PAUSE BUTTON LEVER
30	S1-821-100-700		FF GEAR
31	S1-921-050-060		SENSER
32	S1-921-053-100		TAKE UP REEL ASSY
33	S1-829-100-010		PACK SPRING
34	S1-921-050-150		S REEL HUB
35	S1-921-050-220		BACK TENSION SPRING
36	S1-921-140-220		REC BUTTON LEVER
37	S1-921-140-170		P.S.LEVER SPRING
38	S1-921-073-040		RF CLUTCH ASSY
39	S1-921-070-030		RF BELT
40	S1-921-260-020		CAM GEAR
41	S1-921-140-160		E ACTUATOR SPRING
42	S1-921-093-210		FLYWHEEL ASSY
43	S1-921-090-380		MAIN BELT
44	S1-921-120-590		MOTOR PULLEY
45	S6-002-030-220		MOTOR EG530AD-2B
46	S6-209-100-100		E HEAD PH-K380-MS1
47	S1-921-030-050		MG ARM
48	S1-921-140-210		REC BUTTON LEVER SPRING
49	S1-821-100-690		RECORD SAFETY LEVER
50	S1-821-128-9A0		MOTOR BRACKET
51	S1-821-010-500		PLAY BUTTON LEVER SPRING
A	S9-P04-200-310		C TAPPING SCREW 2-3
B	S1-921-120-020		MOTOR COLLER SCREW
C	S9-B10-200-510		P TAPPING BIND SCREW M2-5
D	S9-C07-204-510		SCREW,TAPPING(CAMERA)M2-4.5
E	S9-P01-200-610		SCREW,M2-6
F	S9-B01-200-310		(+)BIND SCREW M2-3
G	S9-F08-200-710		AZIMUTH SCREW M2-7
H	S1-921-120-030		MB SCREW
I	S9-W02-300-100		P WASHER CUT 1.2-3.8-0.3
J	S9-W02-500-100		P WASHER CUT 1.45-3.8-0.5
K	S9-W01-400-100		P WASHER 2-3.5-0.4
L	S9-W01-130-200		P WASHER 2.1-4-0.13

CD MECHANISM EXPLODED VIEW-1/1 (DTA11T3C)



CD MECHANISM PARTS LIST-1/1 (DTA11T3C)

REF. NO	PART NO.	KANRI NO.	DESCRIPTION
1	M8-ZZK-E90-070		DA11T3C
2	S2-121-A28-400		COVER GEAR
3	S2-511-A21-000		GEAR MIDDLE
4	S2-511-A21-100		GEAR,DRIVE
A	S1-PN2-03R-OSE		SCR PAN PCS 2-3

SPEAKER PARTS LIST-1/1

REF. NO	PART NO.	KANRI NO.	DESCRIPTION
1	8A-CJB-632-010		SPKR,100MM 4OHM
2	8A-CJB-021-010		CABI,SPKR FR
3	8A-CJB-023-110		PANEL,SPKR
4	8A-CJB-220-010		HLDR,SPKR REAR
5	8A-CJB-204-010		HLDR,SPKR WIRE
6	8A-CJB-627-010		CORD,SPKR
7	8A-CJB-027-010		CUSH,FOOT
A	87-067-698-010		BVT2+3-18(W/O,SLOT)
B	87-067-703-010		TAPPING SCREW, BVT2+3-10

ACCESSORIES/PACKAGE LIST-1/1

REF. NO	PART NO.	KANRI NO.	DESCRIPTION
1	8A-CGC-911-010		IB,H(EC-K)B
2	87-A90-030-010		ANT,LOOP AM-NC C
3	87-043-115-010		ANT,FEEDER FM
4	8Z-CG8-952-010		RC UNIT,RC-ZAT05

アイワ株式会社 〒110-8710 東京都台東区池之端1-2-11 ☎03(3827)3111 (代表)
AIWA CO.,LTD. 2–11, IKENOHATA 1–CHOME, TAITO-KU, TOKYO 110-8710, JAPAN TEL:03 (3827) 3111

737004 Printed in Singapore