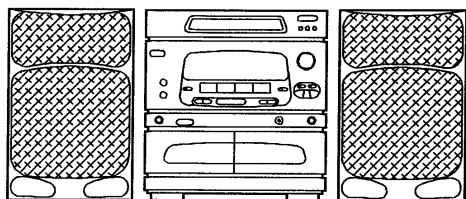


aiwa



CX-N430



COMPACT DISC STEREO SYSTEM

- BASIC TAPE MECHANISM : 2ZM – 3PR3N
- BASIC CD MECHANISM : KSL – 2101ABM

- TYPE: E, K, EZ

SYSTEM	CD – CASSEIVER	REMOTE CONTROLLER	SPEAKER
NSX – 430	CX – N430	RC – TN430	SX – FN450

TABLE OF CONTENTS

SPECIFICATIONS	3
PROTECTION OF EYES FROM LASER BEAM DURING SERVICING	4
PRECAUTION TO REPLACE OPTICAL BLOCK	4
ELECTRICAL MAIN PARTS LIST	5
TRANSISTOR ILLUSTRATION	10
FL GRID ASSIGNMENT / ANODE CONNECTION	11
IC DESCRIPTION	12
IC BLOCK DIAGRAM	18
BLOCK DIAGRAM – 1 ~ 4	23
SCHEMATIC DIAGRAM – 1	31
WIRING – 1	33
SCHEMATIC DIAGRAM – 2	35
WIRING – 2	37
SCHEMATIC DIAGRAM – 3	39
WIRING – 3	41
SCHEMATIC DIAGRAM – 4	43
WIRING – 4	45
ADJUSTMENT – 1 <TUNER / DECK>	46
PRACTICAL SERVICE FIGURE	48
ADJUSTMENT – 2 <CD>	49
MECHANICAL EXPLODED VIEW 1/1	51
MECHANICAL PARTS LIST 1/1	53
TAPE MECHANISM EXPLODED VIEW 1/1	54
TAPE MECHANISM PARTS LIST 1/1	56
CD MECHANISM EXPLODED VIEW 1/1	57
CD MECHANISM PARTS LIST 1/1	58
SPRING APPLICATION POSITION	59
SPEAKER PARTS LIST	60
ACCESSORIES / PACKAGE LIST	60
REFERENCE NAME LIST	61

SPECIFICATIONS

<FM section>

Frequency range	87.5 MHz to 108 MHz
Usable sensitivity(IHF)	Except EZ: 1.3 μ V (75 ohms) 13.2 dBf EZ: 1.9 μ V (75 ohms) 16.8 dBf
Alternate channel selectivity	50 dB ($\pm$ 400 kHz)
Signal-to-noise ratio	STEREO: 70 dB (Except EZ) 65 dB (EZ) MONO: 76 dB (Except EZ) 73 dB (EZ)
Harmonic distortion	0.3 % (MONO), 1 kHz 0.5 % (STEREO, L-R), 1 kHz
Frequency response	30 Hz to 15 kHz (+0.5 dB, - 3dB)
Stereo separation	33 dB at 1 kHz
Antenna	75 ohms (unbalanced)

<MW section>

Frequency range	531 (530) kHz to 1602 (1710) kHz
Usable sensitivity	350 μ V/m
Selectivity	22 dB (9 kHz)
Signal-to-noise ratio	53 dB (100 dB input)
Antenna	Loop antenna

<LW Section>

Frequency range	144 kHz to 290 kHz
Sensitivity	1400 μ V/m
Antenna	Loop antenna

<Timer section>

Program timer	On-timer, free setting
Sleep timer	Setting in 10-minute increments, 240 minutes maximum

<Amplifier section>

Power output	CX-N430 EE, EZ: 30 W + 30 W (6 ohms, T.H.D. 1% 1kHz) CX-N430 K: 30 W + 30 W (6 ohms, T.H.D. 1% 1 kHz) 42 W + 42 W (6 ohms, T.H.D. 10% 1kHz)
Harmonic distortion	0.05 % (15 W, 1 kHz, 6 ohms)
Input terminal	VIDEO/AUX: 150 mV (adjustable) MIC: 1.8 mV/10 k Ω
Output terminal	SUPER WOOFER: 1.3 V

<Cassette deck section>

Track format	4 tracks, 2 channels
Frequency response	CrO ₂ tape: 50 - 16000 Hz Normal tape: 50 - 15000 Hz
Signal-to-noise ratio	60 dB (DOLBY NR ON, CrO ₂ tape peak level)
Tape speed	4.8 cm/sec. (17/8 ips)
Recording system	AC bias
Erasure system	AC erase
Motor	DC servo motor x 1
Heads	Playback head x 1 (deck 1) Recording/playback/erasure head x 1 (deck 2)

<CD player section>

Disc	Compact disc
Scanning method	Non-contact optical scanner (semi-conductor laser)
Laser	Semiconductor laser (λ = 780 nm)
Rotation speed	Approx. 500 rpm - 200 rpm (CLV)
Error correction	Cross Interleave, Reed Solomon code
No. of channels	2 channels
D-A conversion	1-bit linear
Wow/flutter	Unmeasurable
Signal-to-noise ratio	90 dB (1 kHz, 0 dB)
Harmonic distortion	0.05% (1 kHz, 0 dB)

<Speaker system>

(These values are for one speaker.)

Cabinet type	3 way, bass reflex with surround speaker (magnetism sealed type)
Speaker	130 mm (5 1/8 in.) cone type woofer 80 mm (3 1/4 in.) cone type tweeter 50 mm (2 in.) ceramic type super tweeter 80 mm (3 1/4 in.) surround speaker
Impedance	6 ohms Surround speaker: 16 ohms
Music power	40 W (Surround speaker: 20W)
Output sound pressure level	87 dB/W/m
Dimensions (W x H x D)	206 x 302 x 260 mm (8 1/8 x 12 x 10 1/4 in.)
Weight	3.5 kg (7 lbs. 11 oz)

<Common section>

Power requirements	CX-N430 EE, EZ: AC 230 V, 50 Hz CX-N430 K: AC 230-240 V, 50 Hz
Power consumption	200 W
(System total)	
Dimensions (W x H x D)	Main unit: 260 x 305 x 340 mm (10 1/4 x 12 1/8 x 13 1/2 in.) System: 672 x 305 x 340 mm (26 1/2 x 12 1/8 x 13 1/2 in.)
Weight	Main unit: 6 kg (13 lbs. 4 oz) System: 13 kg (28 lbs. 11 oz)

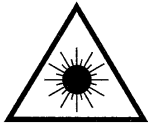
- Design and specifications are subject to change without notice.
- Dolby noise reduction manufactured under license from Dolby Laboratories Licensing Corporation.
"DOLBY" and the double-D symbol  are trademarks of Dolby Laboratories Licensing Corporation.
- The word "BBE" and the "BBE symbol" are trademarks of BBE Sound, Inc.
Under license from BBE Sound, 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 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.

WARNING!

Om apparaten används på annat sätt än vad som specificeras i denna bruksanvisning, kan användaren utsättas för osynlig 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

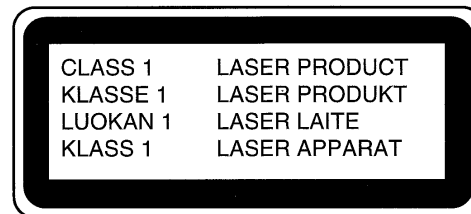
L'utilisation de commandes, réglages ou procédures autres que ceux spécifiés peut entraîner une dangereuse exposition aux radiations.

ADVARSEL

Usynlig laserstråling ved åbning, når sikkerhedsafbrydere er 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.

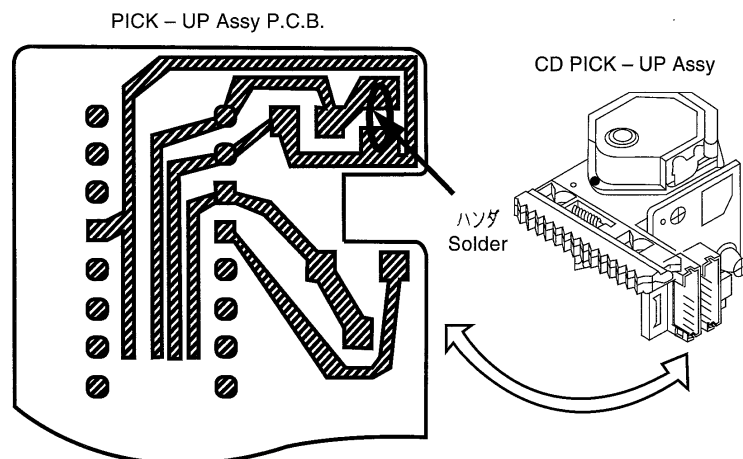


Precaution to replace Optical block

(KSS-210A)

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

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



ELECTRICAL MAIN PARTS LIST

If can't understand for Description please kindly refer to "REFERENCE NAME LIST".

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION	REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
IC				83-017-932-080			ZENER,MTZJ6.2B
	87-017-745-010		IC,CXA1782BQ	83-017-931-080			ZENER,MTZJ5.6B
	87-020-454-010		IC,DM6851	87-017-931-080			ZENER,MTZJ5.6B
	87-017-586-010		IC,CXD2518Q	87-001-559-080			DIODE,1SS131 T-72
	87-017-486-080		IC,BA6397FP	87-020-339-080			C-DIODE,1SS226
	87-017-585-080		IC,NJM4580E	87-027-393-080			ZENER,HZ4C2
				87-027-332-080			ZENER,HZ6B1L
	87-001-982-010		IC,TA7291S	87-017-091-080			ZENER,HZS5C1
	87-017-194-010		IC,PLT104	87-020-027-080			C-DIODE,1SS184
	83-NEK-638-010		IC,LC866432V-5576	MAIN C.B			
	87-002-669-010		IC,GP1U571X				
	87-020-966-010		IC,STK4142-MK2	BPF831	87-030-105-010		FLTR,BPMB6A
				C101	87-016-474-090		CAP,E 3300-50 HI-R
	87-017-738-010		IC,NJM2068LD	C102	87-016-474-090		CAP,E 3300-50 HI-R
	87-017-887-010		IC,XR1090ACP	C103	87-010-390-090		CAP,ELECT 3300-25 SME
	87-002-727-010		IC,NJM4558L	C104	87-010-235-080		CAP,E 470-16 SME
	87-002-901-080		IC,BU4094BF				
	87-001-874-010		IC,HA12134A	C105	87-010-101-080		CAP,E 220-16 SME
				C106	87-010-764-080		CAP,E 47-63V
	87-017-673-010		IC,BA3837	C107	87-010-408-080		CAP,E 47-50 SME
	87-017-449-010		IC,XR-1071CP	C108	87-010-392-080		CAP,E 33-35 SME
	87-002-444-010		IC,BU4094B	C109	87-010-263-080		CAP,E 100-10 SME
	87-017-888-080		IC,NJM4558MD				
	87-002-247-010		IC,BU4052B	C112	87-010-384-080		CAP,E 100-25 SME
				C113	87-010-403-080		CAP,E 3.3-50 SME
	87-002-967-080		IC,BU4052BF	C115	87-016-247-080		C-CAP,0.1-50 F
	87-001-607-080		IC,NJM4558M	C116	87-012-140-080		C-CAP,S 470P-50 CH
	87-001-376-010		IC,LC7218	C118	87-016-247-080		C-CAP,0.1-50 F
	87-017-714-010		IC,LA1836				
	87-002-872-080		IC,MC14053BF	C119	87-018-205-080		CAP,TC-U 0.022-25 F
				C120	87-018-205-080		CAP,TC-U 0.022-25 F
TRANSISTOR				C121	87-018-209-080		CAP,TC-U 0.1-50 F
	87-026-463-080		TR,2SA933S(RS)	C201	87-010-194-080		C-CAP,S 0.047-25 F
	87-026-609-080		TR,KTA1266GR	C202	87-018-208-089		CAP,TC-U 0.047-16 Y
	87-026-233-080		C-TR,DTA114TK				
	89-327-124-080		C-TR,2SC2712Y	C213	87-010-404-080		CAP,E 4.7-50 SME
	89-109-521-080		TR,2SA952K	C214	87-010-404-080		CAP,E 4.7-50 SME
				C215	87-010-182-080		C-CAP,S 2200P-50 B
	87-026-211-080		C-TR,DTA144EK	C216	87-010-182-080		C-CAP,S 2200P-50 B
	89-213-702-010		TR,2SB1370E	C217	87-010-404-080		CAP,E 4.7-50 SME
	87-026-610-080		TR,KTC3198GR				
	89-327-125-080		C-TR,2SC2712GR	C218	87-010-404-080		CAP,E 4.7-50 SME
	89-332-665-080		TR,2SC3266GR	C219	87-010-185-080		C-CAP,S 3900P-50 B
				C220	87-010-185-080		C-CAP,S 3900P-50 B
	89-111-625-080		C-TR,2SA1162GR	C221	87-010-400-080		CAP,E 0.47-50 SME
	89-316-236-080		C-TR,2SC1623L6	C222	87-010-400-080		CAP,E 0.47-50 SME
	89-333-266-080		C-TR,2SC3326B				
	87-026-226-080		C-TR,DTA143EK	C223	87-010-374-080		CAP,E 47-10
	87-026-232-080		C-TR,DTA144WK	C224	87-010-374-080		CAP,E 47-10
				C225	87-010-260-080		CAP,E 47-25 SME
	87-026-261-080		C-TR,RN1404	C226	87-010-260-080		CAP,E 47-25 SME
	89-502-466-080		TR,FET 2SK246-BL(TPE2)	C227	87-012-368-080		C-CAP,S 0.1-50 F
	89-333-317-080		TR,2SC3331T				
	89-112-965-080		TR,2SA1296GR	C228	87-012-368-080		C-CAP,S 0.1-50 F
	89-333-317-880		TR,2SC3331TU	C229	87-012-361-080		C-CAP,S 0.056-25 Y
				C230	87-012-361-080		C-CAP,S 0.056-25 Y
	87-026-210-080		C-TR,DTC144EK	C233	87-010-322-080		C-CAP,S 100P-50 CH
	89-502-464-080		FET,2SK246Y	C234	87-010-322-080		C-CAP,S 100P-50 CH
	89-318-154-080		TR,2SC1815Y				
	87-026-214-080		TR,DTA114YS	C236	87-010-408-080		CAP,E 47-50 SME
	89-327-143-080		C-TR,2SC2714(0)	C237	87-012-368-080		C-CAP,S 0.1-50 F
				C238	87-012-368-080		C-CAP,S 0.1-50 F
	89-503-025-080		C-FET,2SK302GR	C243	87-010-154-080		C-CAP,S 10P-50 CH
	89-505-434-580		C-FET,2SK543(4/5)	C244	87-010-154-080		C-CAP,S 10P-50 CH
	89-502-115-080		C-FET,2SK211GR				
DIODE				C245	87-010-194-080		C-CAP,S 0.047-25 F
	87-020-465-080		DIODE,1SS133 T-72	C250	87-010-196-080		C-CAP,S 0.1-25 F
	87-002-225-010		DIODE,DBF 40C-K10	C303	87-012-145-080		C-CAP,S 270P-50 CH
	87-017-011-080		DIODE,LTIN4003L	C304	87-012-145-080		C-CAP,S 270P-50 CH
	87-020-691-080		DIODE,1SS132	C305	87-010-189-080		C-CAP,S 8200P-50 B
	87-020-331-080		C-DIODE,DAN202K				
				C306	87-010-189-080		C-CAP,S 8200P-50 B
	87-020-125-080		C-DIODE,1SS181	C309	87-010-197-080		C-CAP,S 0.01-25 B
	87-017-933-080		ZENER,MTZJ10D	C310	87-010-197-080		C-CAP,S 0.01-25 B
	87-017-147-080		ZENER,HZS33-2	C311	87-010-426-080		C-CAP,S 0.012-25 B
				C312	87-010-426-080		C-CAP,S 0.012-25 B
				C313	87-010-192-080		C-CAP,S 0.022-50 F
				C351	87-012-154-080		C-CAP,S 150P-50 CH

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION	REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
C352	87-012-154-080		C-CAP,S 150P-50 CH	C549	87-012-142-080		C-CAP,S 0.33-16 F
C353	87-012-157-080		C-CAP,S 330P-50 CH	C550	87-016-081-080		C-CAP,S 0.1-16 RK
C354	87-012-157-080		C-CAP,S 330P-50 CH	C551	87-016-081-080		C-CAP,S 0.1-16 RK
				C552	87-010-297-080		C-CAP,100P-50 CH
C355	87-012-145-080		C-CAP,S 270P-50 CH	C601	87-010-401-080		CAP,E 1-50 SME
C356	87-012-145-080		C-CAP,S 270P-50 CH	C602	87-010-405-080		CAP,E 10-50 SME
C357	87-010-189-080		C-CAP,S 8200P-50 B	C603	87-010-101-080		CAP,E 220-16 SME
C358	87-010-189-080		C-CAP,S 8200P-50 B	C605	87-015-627-080		C-CAP,1000P-50 B
C361	87-010-197-080		C-CAP,S 0.01-25 B	C606	87-015-627-080		C-CAP,1000P-50 B
C362	87-010-197-080		C-CAP,S 0.01-25 B	C607	87-010-404-080		CAP,E 4.7-50 SME
C363	87-010-213-080		C-CAP,S 0.015-25 B	C608	87-010-404-080		CAP,E 4.7-50 SME
C364	87-010-213-080		C-CAP,S 0.015-25 B	C609	87-010-404-080		CAP,E 4.7-50 SME
C367	87-010-322-080		C-CAP,S 100P-50 CH	C610	87-010-404-080		CAP,E 4.7-50 SME
C401	87-010-402-080		CAP,E 2.2-50 SME	C611	87-010-177-080		C-CAP,S 820P-50 SL
C402	87-010-402-080		CAP,E 2.2-50 SME	C612	87-010-177-080		C-CAP,S 820P-50 SL
C405	87-010-197-080		C-CAP,S 0.01-25 B	C613	87-010-404-080		CAP,E 4.7-50 SME
C406	87-010-197-080		C-CAP,S 0.01-25 B	C614	87-010-404-080		CAP,E 4.7-50 SME
C409	87-010-181-080		C-CAP,S 1800P-50 B	C615	87-010-400-080		CAP,E 0.47-50 SME
C410	87-010-181-080		C-CAP,S 1800P-50 B	C616	87-010-400-080		CAP,E 0.47-50 SME
C411	87-010-188-080		C-CAP,S 6800P-50 B	C617	87-010-197-080		C-CAP,S 0.01-25 B
C412	87-010-188-080		C-CAP,S 6800P-50 B	C618	87-010-197-080		C-CAP,S 0.01-25 B
C415	87-012-154-080		C-CAP,S 150P-50 CH	C619	87-010-184-080		C-CAP,S 3300P-50 B
C416	87-012-154-080		C-CAP,S 150P-50 CH	C620	87-010-184-080		C-CAP,S 3300P-50 B
C451	87-012-156-080		C-CAP,S 220P-50 CH	C621	87-012-155-080		C-CAP,S 180P-50 CH
C452	87-012-156-080		C-CAP,S 220P-50 CH	C622	87-012-155-080		C-CAP,S 180P-50 CH
C453	87-010-178-080		C-CAP,S 1000P-50 B	C623	87-010-405-080		CAP,E 10-50 SME
C454	87-010-178-089		C-CAP,S 1000P-50 B	C624	87-010-405-080		CAP,E 10-50 SME
C455	87-010-178-080		C-CAP,S 1000P-50 B	C630	87-010-405-080		CAP,E 10-50 SME
C456	87-010-260-080		CAP,E 47-25 SME	C631	87-010-401-080		CAP,E 1-50 SME
C457	87-010-197-080		C-CAP,S 0.01-25 B	C640	87-010-196-080		C-CAP,S 0.1-25 F
C458	87-010-183-080		C-CAP,S 2700P-50 B	C641	87-010-196-080		C-CAP,S 0.1-25 F
C459	87-010-183-080		C-CAP,S 2700P-50 B	C645	87-010-196-080		C-CAP,S 0.1-25 F
C460	87-010-183-080		C-CAP,S 2700P-50 B	C646	87-010-196-080		C-CAP,S 0.1-25 F
C470	87-010-196-080		C-CAP,S 0.1-25 F	C647	87-010-196-080		C-CAP,S 0.1-25 F
C501	87-010-196-080		C-CAP,S 0.1-25 F	C648	87-010-196-080		C-CAP,S 0.1-25 F
C502	87-010-196-080		C-CAP,S 0.1-25 F	C651	87-010-316-080		C-CAP,S 33P-50 CH
C503	87-012-155-080		C-CAP,S 180P-50 CH	C652	87-010-316-080		C-CAP,S 33P-50 CH
C504	87-012-155-080		C-CAP,S 180P-50 CH	C670	87-010-260-080		CAP,E 47-25 SME
C507	87-010-178-080		C-CAP,S 1000P-50 B	C701	87-010-381-080		CAP,E 330-16 SME
C508	87-010-178-080		C-CAP,S 1000P-50 B	C702	87-010-404-080		CAP,E 4.7-50 SME
C509	87-010-371-080		CAP,E 470-6.3	C703	87-010-197-080		C-CAP,S 0.01-25 B
C514	87-010-382-080		CAP,E 22-25 SME	C704	87-010-197-080		C-CAP,S 0.01-25 B
C515	87-010-545-080		CAP,E 0.22-50 SME	C711	87-010-263-080		CAP,E 100-10 SME
C516	87-010-545-080		CAP,E 0.22-50 SME	C712	87-010-196-080		C-CAP,S 0.1-25 F
C517	87-012-142-080		C-CAP,S 0.33-16 F	C722	87-010-151-080		C-CAP,S 7P-50 CH
C518	87-012-142-080		C-CAP,S 0.33-16 F	C723	87-010-178-080		C-CAP,S 1000P-50 B
C519	87-010-196-080		C-CAP,S 0.1-25 F	C724	87-010-178-080		C-CAP,S 1000P-50 B
C520	87-010-197-080		C-CAP,S 0.01-25 B	C725	87-010-178-080		C-CAP,S 1000P-50 B
C521	87-010-197-080		C-CAP,S 0.01-25 B	C726	87-010-178-080		C-CAP,S 1000P-50 B
C522	87-010-318-080		C-CAP,S 47P-50 CH	C727	87-010-194-080		C-CAP,S 0.047-25 F
C523	87-010-197-080		C-CAP,S 0.01-25 B	C728	87-010-248-080		CAP,E 220-10 SME
C524	87-010-402-080		CAP,E 2.2-50 SME	C732	87-010-197-080		C-CAP,S 0.01-25 B
C530	87-010-194-080		C-CAP,S 0.047-25 F	C771	87-010-405-080		CAP,E 10-50 SME
C531	87-010-545-080		CAP,E 0.22-50 SME	C772	87-010-194-080		C-CAP,S 0.047-25 F
C532	87-010-260-080		CAP,E 47-25 SME	C773	87-010-196-080		C-CAP,S 0.1-25 F
C533	87-010-404-080		CAP,E 4.7-50 SME	C774	87-010-263-080		CAP,E 100-10 SME
C534	87-010-404-080		CAP,E 4.7-50 SME	C775	87-010-405-080		CAP,E 10-50 SME
C535	87-010-404-080		CAP,E 4.7-50 SME	C776	87-010-197-080		C-CAP,S 0.01-25 B
C536	87-010-404-080		CAP,E 4.7-50 SME	C777	87-010-400-080		CAP,E 0.47-50 SME
C537	87-018-209-080		CAP,TC-U 0.1-50 F	C778	87-010-401-080		CAP,E 1-50 SME
C538	87-010-196-080		C-CAP,S 0.1-25 F	C779	87-010-401-080		CAP,E 1-50 SME
C539	87-010-405-080		CAP,E 10-50 SME	C780	87-010-197-080		C-CAP,S 0.01-25 B
C540	87-010-374-080		CAP,E 47-10	C781	87-010-405-080		CAP,E 10-50 SME
C541	87-010-196-080		C-CAP,S 0.1-25 F	C782	87-010-405-080		CAP,E 10-50 SME
C543	87-010-546-080		CAP,E 0.33-50 SME	C787	87-010-184-080		C-CAP,S 3300P-50 B
C544	87-010-546-080		CAP,E 0.33-50 SME	C788	87-010-184-080		C-CAP,S 3300P-50 B
C545	87-010-400-080		CAP,E 0.47-50 SME	C789	87-010-179-080		C-CAP,S 1200P-50 B
C546	87-010-400-080		CAP,E 0.47-50 SME	C790	87-010-179-080		C-CAP,S 1200P-50 B
C547	87-010-198-080		C-CAP,S 0.022-25 B	C791	87-010-401-080		CAP,E 1-50 SME
C548	87-010-198-080		C-CAP,S 0.022-25 B				

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION	REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
C792	87-010-182-080	C-CAP,S	2200P-50 B	L451	87-007-300-010		COIL,OSC BIAS 85K
C793	87-010-189-080	C-CAP,S	8200P-50 B	L701	87-006-235-010		COIL,TRAP MPX
C794	87-010-260-080	CAP,E	47-25 SME	L702	87-006-235-010		COIL,TRAP MPX
C795	87-010-194-080	C-CAP,S	0.047-25 F	L741	87-006-259-010		COIL,FM DET
C796	87-010-403-080	CAP,E	3.3-50 SME	L742	82-NT1-659-010		FLTR,CFAZ-450 2NT
C797	87-010-405-080	CAP,E	10-50 SME	L770	87-003-102-080		COIL,10UH
C798	87-010-196-080	C-CAP,S	0.1-25 F	L801	87-006-263-010		COIL,ANT FM 3/4TS,L4
C802	87-010-311-080	C-CAP,S	12P-50 CH	L802	87-006-265-010		COIL,ANT FM 2-3/4TS
C805	87-010-147-080	C-CAP,S	3P-50 CH	L803	87-006-262-010		COIL,RF FM 3-1/2T,L4
C806	87-010-148-080	C-CAP,S	4P-50 CH	L804	87-006-264-010		COIL,RF FM 3-1/2TS,L4
C807	87-010-313-080	C-CAP,S	18P-50 CH	L805	87-003-098-080		COIL,2.2UH
C808	87-010-166-080	C-CAP,S	100P-50 SL	L806	87-006-257-010		COIL,FM IFT
C809	87-010-197-080	C-CAP,S	0.01-25 B	L807	87-006-258-010		COIL,FM OSC
C810	87-010-197-080	C-CAP,S	0.01-25 B	L831	87-006-264-010		COIL,RF FM 3-1/2TS,L4
C811	87-010-149-080	C-CAP,S	5P-50 CH	L832	87-003-098-080		COIL,2.2UH
C812	86-010-312-080	C-CAP,S	15P-50 CH	L941	87-006-261-010		COIL,LW ANT
C813	87-010-197-080	C-CAP,S	0.01-25 B	L942	87-006-260-010		COIL,OSC LW S
C814	87-010-197-080	C-CAP,S	0.01-25 B	L981	87-042-147-010		AM PACK 4
C816	87-010-197-080	C-CAP,S	0.01-25 B	R105	87-022-050-080		RES,METAL 1W-0.22J
C817	87-010-197-080	C-CAP,S	0.01-25 B	R106	87-022-050-080		RES,METAL 1W-0.22J
C818	87-010-197-080	C-CAP,S	0.01-25 B	R203	87-022-050-080		RES,METAL 1W-0.22J
C819	87-010-197-080	C-CAP,S	0.01-25 B	R204	87-022-050-080		RES,METAL 1W-0.22J
C820	87-010-260-080	CAP,E	47-25 SME	RY101	87-045-371-010		RELAY,AJW5211813
C821	87-010-197-080	C-CAP,S	0.01-25 B	RY102	87-045-335-010		RELAY,G5Z-2A 12VDC
C823	87-010-197-080	C-CAP,S	0.01-25 B	SFR301	87-024-168-080		SFR,1K DIA6 V
C827	87-010-145-080	C-CAP,S	1P-50 CH	SFR302	87-024-168-080		SFR,1K DIA6 V
C830	87-010-197-080	C-CAP,S	0.01-25 B	SFR351	87-024-168-080		SFR,1K DIA6 V
C831	87-010-154-080	C-CAP,S	10P-50 CH	SFR352	87-024-168-080		SFR,1K DIA6 V
C832	87-010-314-080	C-CAP,S	22P-50 CH	SFR401	87-024-168-080		SFR,1K DIA6 V
C834	87-010-154-080	C-CAP,S	10P-50 CH	SFR402	87-024-168-080		SFR,1K DIA6 V
C835	87-010-154-080	C-CAP,S	10P-50 CH	SFR451	87-024-175-080		SFR,47K DIA6 V
C836	87-010-312-080	C-CAP,S	15P-50 CH	SFR452	87-024-175-080		SFR,47K DIA6 V
C837	87-010-312-080	C-CAP,S	15P-50 CH	SFR722	87-024-651-080		SFR,6.8K DIA6 V
C840	87-010-197-080	C-CAP,S	0.01-25 B	SFR771	87-024-173-080		SFR,22K DIA6 V
C843	87-010-146-080	C-CAP,S	2P-50 CH	SLD701	82-NF5-677-110		SHLD PLATE,ANT
C851	87-010-197-080	C-CAP,S	0.01-25 B	SLD702	82-NF5-607-010		SHLD CASE,TU(S)
C941	87-010-197-080	C-CAP,S	0.01-25 B	TC701	87-011-221-080		TRIMMER,30P VCT51
C942	87-010-311-080	C-CAP,S	12P-50 CH	TC801	87-011-219-080		CAP,TRIMMER 10P VCT
C944	87-010-154-080	C-CAP,S	10P-50 CH	TC802	87-011-219-080		CAP,TRIMMER 10P VCT
C945	87-014-050-080	CAP,PP	510P-100 J	TC803	87-011-219-080		CAP,TRIMMER 10P VCT
C946	87-010-401-080	CAP,E	1-50 SME	TC941	87-011-221-080		TRIMMER,30P VCT51
C947	87-010-197-080	C-CAP,S	0.01-25 B	VR651	83-NF5-639-010		VR,50KBx2 RK14K12AO
C948	87-010-401-080	CAP,E	1-50 SME	W101	83-NEK-601-010		F-CABLE,7P-2.5
C949	87-010-196-089	C-CAP,S	0.1-25 F	X703	84-508-618-010		VIB,CER CSB 456 F/5
C950	87-010-166-080	C-CAP,S	100P-50 SL	X721	87-030-372-010		VIB,XTAL 7.2MHZ
C981	87-018-134-010	CAP,TC-U	0.01-16 Y	FRONT C.B			
C983	87-015-691-080	CAP,E	0.1-50 7L	C201	87-010-404-040		CAP,E 4.7-50 SME
C984	87-010-196-080	C-CAP,S	0.1-25 F	C202	87-010-404-040		CAP,E 4.7-50 SME
C985	87-010-196-080	C-CAP,S	0.1-25 F	C203	87-010-408-040		CAP,E 47-50 SME
C987	87-010-197-080	C-CAP,S	0.01-25 B	C204	87-010-196-080		C-CAP,S 0.1-25 F
C988	87-015-785-080	C-CAP	0.1-25 F	C205	87-010-263-040		CAP,E 100-10
C989	87-018-134-010	CAP,TC-U	0.01-16 Y	C206	87-010-248-040		CAP,E 220-10 SME
C990	87-010-197-080	C-CAP,S	0.01-25 B	C207	87-010-401-040		CAP,E 1-50 SME
CF801	87-008-423-010	CF,SFE10.7MS	3G-A	C208	87-010-805-080		CAP,S 1-16 F
CF802	87-785-747-010	CF,MS2 GHY,R		C210	87-010-146-080		C-CAP,S 2P-50 CH
D801	87-002-730-080	VARI-CAP,SVC	203SPA	C212	87-010-405-040		CAP,E 10-50 SME
D802	87-002-730-080	VARI-CAP,SVC	203SPA	C213	87-018-214-080		CAP,TC-U 0.1-50 F
D803	87-002-730-080	VARI-CAP,SVC	203SPA	C214	87-010-178-080		C-CAP,S 1000P-50 B
D804	87-002-730-080	VARI-CAP,SVC	203SPA	C215	87-010-196-080		C-CAP,S 0.1-25 F
J250	87-049-855-010	JACK,6.3 W/S		C220	87-010-196-080		C-CAP,S 0.1-25 F
J253	87-099-475-010	JACK,PIN 3P BLK W/F		C381	87-010-196-080		C-CAP,S 0.1-25 F
J254	87-033-233-010	TERMINAL,SPKR		C382	87-010-196-080		C-CAP,S 0.1-25 F
J652	80-MT3-616-010	JACK,PIN 2P		C383	87-010-196-080		C-CAP,S 0.1-25 F
J801	87-033-230-010	TERMINAL,ANT AJ-2016		C389	87-010-150-080		C-CAP,S 6P-50 CH
L201	87-005-366-010	COIL,1UH		C401	87-010-196-080		C-CAP,S 0.1-25 F
L202	87-005-366-010	COIL,1UH		C501	87-010-384-040		CAP,E 100-25 SME
L401	87-003-131-080	COIL,10MH-J		C604	87-010-183-080		C-CAP,S 2700P-50 B
L402	87-003-131-080	COIL,10MH-J		C606	87-010-400-040		CAP,E 0.47-50 SME
L403	82-231-622-080	COIL,22MH-J					
L404	82-231-622-080	COIL,22MH-J					

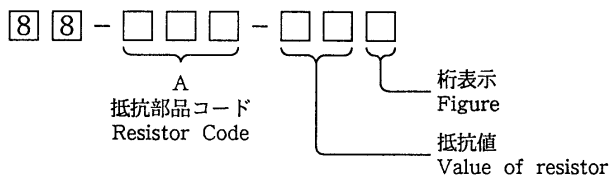
REF. NO.	PART NO.	KANRI NO.	DESCRIPTION	REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
C607	87-010-172-080	C-CAP,S	330P-50 SL	LED902	83-NF8-634-080	LED,SEL	2210S TP6
C608	87-010-405-040	CAP,E	10-50 SME	LED903	83-NF8-634-080	LED,SEL	2210S TP6
C609	87-010-196-080	C-CAP,S	0.1-25 F	S301	87-036-215-080	SW,TACT	EVQ21404M
				S302	87-036-215-080	SW,TACT	EVQ21404M
C610	87-012-145-080	C-CAP,S	270P-50 CH				
C613	87-010-196-080	C-CAP,S	0.1-25 F	S303	87-036-215-080	SW,TACT	EVQ21404M
C624	87-010-183-080	C-CAP,S	2700P-50 B	S304	87-036-215-080	SW,TACT	EVQ21404M
C626	87-010-400-040	CAP,E	0.47-50 SME	S305	87-036-215-080	SW,TACT	EVQ21404M
C627	87-010-172-080	C-CAP,S	330P-50 SL	S306	87-036-215-080	SW,TACT	EVQ21404M
				S307	87-036-215-080	SW,TACT	EVQ21404M
C640	87-010-405-040	CAP,E	10-50 SME				
C645	87-010-263-040	CAP,E	100-10	S308	87-036-215-080	SW,TACT	EVQ21404M
C646	87-010-196-080	C-CAP,S	0.1-25 F	S309	87-036-215-080	SW,TACT	EVQ21404M
C647	87-010-196-080	C-CAP,S	0.1-25 F	S310	87-036-215-080	SW,TACT	EVQ21404M
C648	87-010-412-080	CAP,E	10-25 SL	S311	87-036-215-080	SW,TACT	EVQ21404M
				S312	87-036-215-080	SW,TACT	EVQ21404M
C649	87-010-315-080	C-CAP,S	27P-25 B				
C650	87-010-315-080	C-CAP,S	27P-25 B	S313	87-036-215-080	SW,TACT	EVQ21404M
C651	87-010-197-080	C-CAP,S	0.01-25 B	S314	87-036-215-080	SW,TACT	EVQ21404M
C652	87-010-197-080	C-CAP,S	0.01-25 B	S321	87-036-215-080	SW,TACT	EVQ21404M
C692	87-010-197-080	C-CAP,S	0.01-25 B	S322	87-036-215-080	SW,TACT	EVQ21404M
				S323	87-036-215-080	SW,TACT	EVQ21404M
C701	87-012-140-080	C-CAP,S	470P-50 CH				
C702	87-010 305-080	C-CAP,470P-50	CH	S324	87-036-215-080	SW,TACT	EVQ21404M
C703	87-010-154-080	C-CAP,S	10P-50 CH	S325	87-036-215-080	SW,TACT	EVQ21404M
C704	87-010-154-080	C-CAP,S	10P-50 CH	S341	87-036-215-080	SW,TACT	EVQ21404M
C705	87-010-322-080	C-CAP,S	100P-50 CH	S342	87-036-215-080	SW,TACT	EVQ21404M
				S343	87-036-215-080	SW,TACT	EVQ21404M
C706	87-010-322-080	C-CAP,S	100P-50 CH				
C707	87-010-197-080	C-CAP,S	0.01-25 B	S344	87-036-215-080	SW,TACT	EVQ21404M
C708	87-010-197-080	C-CAP,S	0.01-25 B	S345	87-036-215-080	SW,TACT	EVQ21404M
C709	87-010-184-080	C-CAP,S	3300P-50 B	S346	87-036-215-080	SW,TACT	EVQ21404M
C710	87-010-184-080	C-CAP,S	3300P-50 B	S347	87-036-215-080	SW,TACT	EVQ21404M
				S348	87-036-215-080	SW,TACT	EVQ21404M
C711	87-012-154-080	C-CAP,S	150P-50 CH				
C712	87-012-154-080	C-CAP,S	150P-50 CH	S349	87-036-215-080	SW,TACT	EVQ21404M
C713	87-010-593-080	C-CAP,S	0.027-16V RK	S350	87-036-215-080	SW,TACT	EVQ21404M
C714	87-010-593-080	C-CAP,S	0.027-16V RK	VR601	83-NM1-627-010	VR,10KB	RK11K1130
C715	87-010-318-080	C-CAP,S	47P-50 CH	VR602	81-MX4-637-010	VR,10KA	RK11K1130
				X201	87-030-345-080	VIB,CER	CST 5.76MGW
C716	87-010-318-080	C-CAP,S	47P-50 CH				
C717	87-010-186-080	C-CAP,S	4700P-50 B				
C718	87-010-186-080	C-CAP,S	4700P-50 B	CD C.B			
C719	87-010-176-080	C-CAP,S	680P-50 SL				
C720	87-010-176-080	C-CAP,S	680P-50 SL	C1	87-010-178-080	C-CAP,S	1000P-50 B
				C2	87-010-263-080	CAP,E	100-10
C721	87-010-072-040	CAP,E	2.2-50 SL	C3	87-010-265-080	CAP,E	33-16 SME
C722	87-010-402-040	CAP,E	2.2-50 SME	C6	87-010-198-080	C-CAP,S	0.022-25 B
C729	87-010-248-040	CAP,E	220-10 SME	C7	87-010-196-080	C-CAP,S	0.1-25 F
C730	87-010-384-040	CAP,E	100-25 SME				
C731	87-010-177-080	C-CAP,S	820P-50 SL	C10	87-010-182-080	C-CAP,S	2200P-50 B
				C11	87-010-196-080	C-CAP,S	0.1-25 F
C732	87-010-177-080	C-CAP,S	820P-50 SL	C14	87-010-404-080	CAP,E	4.7-50 SME
C792	87-010-196-080	C-CAP,S	0.1-25 F	C16	87-010-197-080	C-CAP,S	0.01-25 B
C800	87-010-197-089	C-CAP,S	0.01-25 B	C17	87-010-263-080	CAP,E	100-10
FL101	83-NEG-631-010	FL,BJ256GK					
J601	82-NF7-630-010	JACK,3.5 MO		C18	87-010-197-080	C-CAP,S	0.01-25 B
				C19	87-010-403-080	CAP,E	3.3-50 SME
J621	82-NF7-630-010	JACK,3.5 MO		C20	87-010-382-080	CAP,E	22-25 SME
L201	87-003-152-080	COIL,100UH		C21	87-010-263-080	CAP,E	100-10
LED401	87-017-297-080	LED,SEL	1550CM TP7	C22	87-010-197-080	C-CAP,S	0.01-25 B
LED402	87-017-297-080	LED,SEL	1550CM TP7				
LED403	87-017-297-080	LED,SEL	1550CM TP7	C23	87-010-193-080	C-CAP,S	0.033-25 F
				C24	87-010-197-080	C-CAP,S	0.01-25 B
LED404	87-017-297-080	LED,SEL	1550CM TP7	C25	87-010-193-080	C-CAP,S	0.033-25 F
LED405	87-017-297-080	LED,SEL	1550CM TP7	C28	87-010-196-080	C-CAP,S	0.1-25 F
LED406	87-017-297-080	LED,SEL	1550CM TP7	C29	87-010-263-080	CAP,E	100-10
LED407	87-017-369-080	LED,SEL	2510C TP6				
LED408	87-017-369-080	LED,SEL	2510C TP6	C30	87-010-194-080	C-CAP,S	0.047-25 F
				C31	87-010-180-080	C-CAP,S	1500P-50 B
LED409	87-017-369-080	LED,SEL	2510C TP6	C32	87-010-263-080	CAP,E	100-10
LED410	87-017-369-080	LED,SEL	2510C TP6	C33	87-010-197-080	C-CAP,S	0.01-25 B
LED411	87-017-369-080	LED,SEL	2510C TP6	C34	87-012-156-080	C-CAP,S	220P-50 CH
LED412	87-017-369-080	LED,SEL	2510C TP6				
LED413	87-017-369-080	LED,SEL	2510C TP6	C35	87-010-197-080	C-CAP,S	0.01-25 B
				C36	87-010-400-080	CAP,E	0.47-50 SME
LED414	87-017-369-080	LED,SEL	2510C TP6	C37	87-010-197-080	C-CAP,S	0.01-25 B
LED420	87-017-785-080	LED,SEL	4214S	C38	87-010-154-080	C-CAP,S	10P-50 CH
LED421	87-017-785-080	LED,SEL	4214S	C39	87-010-315-080	C-CAP,S	27P-50 CH
LED422	87-017-785-080	LED,SEL	4214S				
LED423	87-017-785-080	LED,SEL	4214S	C41	87-012-140-080	C-CAP,S	470P-50 CH
				C43	87-010-318-080	C-CAP,S	47P-50 CH
LED901	83-NF8-634-080	LED,SEL	2210S TP6	C44	87-010-318-080	C-CAP,S	47P-50 CH

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION	REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
C46	87-010-154-080	C-CAP,S 10P-50 CH		C918	87-010-196-080	C-CAP,S 0.1-25 F	
C51	87-010-154-080	C-CAP,S 10P-50 CH		C919	87-010-260-040	CAP,E 47-25 SME	
				C920	87-010-400-040	CAP,E 0.47-50 SME	
C52	87-010-146-080	C-CAP,S 2P-50 CH					
C57	87-010-404-080	CAP,E 4.7-50 SME		C921	87-010-400-040	CAP,E 0.47-50 SME	
C58	87-010-196-080	C-CAP,S 0.1-25 F		C922	87-010-196-080	C-CAP,S 0.1-25 F	
C59	87-010-221-080	CAP,E 470-10		C923	87-010-187-080	C-CAP,S 5600P-50 B	
C60	87-010-197-080	C-CAP,S 0.01-25 B		C924	87-010-179-080	C-CAP,S 1200P-50 B	
				C925	87-015-883-080	C-CAP,0.022-25 BK	
C61	87-010-196-080	C-CAP,S 0.1-25 F					
C62	87-010-180-080	C-CAP,S 1500P-50 B		C926	87-010-196-080	C-CAP,S 0.1-25 F	
C63	87-010-805-080	C-CAP,S 1-16 F		C927	87-010-181-080	C-CAP,S 1800P-50 B	
C64	87-010-196-080	C-CAP,S 0.1-25 F		C928	87-010-181-080	C-CAP,S 1800P-50 B	
C65	87-010-197-080	C-CAP,S 0.01-25 B		C929	87-010-382-080	CAP,E 22-25 SME	
				C941	87-010-197-080	C-CAP,S 0.01-25 B	
C66	87-010-221-080	CAP,E 470-10					
C67	87-010-196-080	C-CAP,S 0.1-25 F		C942	87-010-197-080	C-CAP,S 0.01-25 B	
C68	87-010-196-080	C-CAP,S 0.1-25 F		C960	87-010-260-040	CAP,E 47-25 SME	
C69	87-010-197-080	C-CAP,S 0.01-25 B		C961	84-010-384-080	CAP,E 100-25 SME	
C70	87-010-384-080	CAP,E 100-25 SME		L901	87-005-490-080	COIL,270UH J FLR50	
C71	87-010-197-080	C-CAP,S 0.01-25 B					
C72	87-010-221-080	CAP,E 470-10		AC C.B			
C75	87-010-196-080	C-CAP,S 0.1-25 F					
C76	87-010-248-080	CAP,E 220-10 SME		△ PT101	83-NEG-616-010	PT,HI 3NEG EK	
C77	87-010-197-080	C-CAP,S 0.01-25 B		R101	87-025-466-080	RES,NF 0.68-1/4W J	
				R102	87-025-466-080	RES,NF 0.68-1/4W J	
C78	87-010-197-080	C-CAP,S 0.01-25 B					
C79	87-010-197-080	C-CAP,S 0.01-25 B					
C80	87-010-263-080	CAP,E 100-10		MVR C.B			
C101	87-012-153-080	C-CAP,S 120P-50 CH					
C102	87-010-321-080	C-CAP,S 82P-50 CH		C735	87-010-402-040	CAP,E 2.2-50 SME	
				C736	87-010-402-040	CAP,E 2.2-50 SME	
C103	87-010-321-080	C-CAP,S 82P-50 CH		C738	87-010-370-040	CAP,E 330-6.3 SME	
C104	87-012-153-080	C-CAP,S 120P-50 CH		C741	87-010-192-080	C-CAP,S 0.022-50 F	
C105	87-012-153-080	C-CAP,S 120P-50 CH		C745	87-016-073-040	CAP,E 1-50 FX	
C106	87-010-402-080	CAP,E 2.2-50 SME					
C107	87-010-263-080	CAP,E 100-10		C746	87-016-073-040	CAP,E 1-50 FX	
				C747	87-010-401-040	CAP,E 1-50 SME	
C108	87-010-186-080	C-CAP,S 4700P-50 B		C748	87-010-401-040	CAP,E 1-50 SME	
C109	87-010-221-080	CAP,E 470-10		C750	87-010-381-080	CAP,E 330-16 SME	
C110	87-012-153-080	C-CAP,S 120P-50 CH		C751	87-010-401-040	CAP,E 1-50 SME	
C111	87-010-321-080	C-CAP,S 82P-50 CH					
C112	87-010-321-080	C-CAP,S 82P-50 CH		C752	87-010-401-040	CAP,E 1-50 SME	
				C757	87-010-401-040	CAP,E 1-50 SME	
C113	87-012-153-080	C-CAP,S 120P-50 CH		C761	87-010-318-080	C-CAP,S 47P-50 CH	
C114	87-012-153-080	C-CAP,S 120P-50 CH		C762	87-010-318-080	C-CAP,S 47P-50 CH	
C115	87-010-402-080	CAP,E 2.2-50 SME		C773	87-010-545-040	CAP,E 0.22-50 SME	
C116	87-010-186-080	C-CAP,S 4700P-50 B					
C117	87-010-213-080	C-CAP,S 0.015-25 B		C777	87-010-403-040	CAP,E 3.3-50 SME	
				C778	87-010-403-040	CAP,E 3.3-50 SME	
C120	87-010-404-080	CAP,E 4.7-50 SME		C780	87-010-322-080	C-CAP,S 100P-50 CH	
C121	87-010-197-080	C-CAP,S 0.01-25 B		C781	87-010-322-080	C-CAP,S 100P-50 CH	
L1	87-003-295-080	COIL,10UH		C782	87-010-322-080	C-CAP,S 100P-50 CH	
SFR1	87-024-176-080	SFR,100K DIA6 V					
SFR2	87-024-175-080	SFR,47K DIA6 V		C783	87-010-322-080	C-CAP,S 100P-50 CH	
				C797	87-010-401-040	CAP,E 1-50 SME	
SFR3	87-024-176-080	SFR,100K DIA6 V		MVR741	82-MA3-635-010	VR,50KBX2(M0)	
X1	87-030-374-010	VIB,X'TAL 33.8688MHZ					
DSP C.B				DECK-1 C.B			
C901	87-010-248-040	CAP,E 220-10 SME		SOL1	82-ZM1-618-310	SOL ASSY,27	
C902	87-010-384-040	CAP,E 100-25 SME		SW4	87-036-110-010	SW,PUSH SPPB 62	
C903	87-010-186-080	C-CAP,S 4700P-50 B		SW5	87-036-110-010	SW,PUSH SPPB 62	
C904	87-010-322-080	C-CAP,S 100P-50 CH		SW6	87-036-110-010	SW,PUSH SPPB 62	
C905	87-010-401-040	CAP,E 1-50 SME					
				DECK-2 C.B			
C906	87-010-187-080	C-CAP,S 5600P-50 B		SFR1	87-024-170-080	SFR,3.3K DIA6 V	
C907	87-010-193-080	C-CAP,S 0.033-25 F		SOL2	82-ZM1-618-310	SOL ASSY,27	
C908	87-010-544-040	CAP,E 0.1-50 SME		SW2	87-036-110-010	SW,PUSH SPPB 62	
C909	87-010-188-080	C-CAP,S 6800P-50 B		SW3	87-036-110-010	SW,PUSH SPPB 62	
C910	87-010-213-080	C-CAP,S 0.015-25 B		SW4	87-036-110-010	SW,PUSH SPPB 62	
C911	87-010-263-040	CAP,E 100-10		SW5	87-036-110-010	SW,PUSH SPPB 62	
C912	87-010-196-080	C-CAP,S 0.1-25 F		SW6	87-036-110-010	SW,PUSH SPPB 62	
C913	87-010-316-080	C-CAP,S 33P-50 CH					
C914	87-010-177-080	C-CAP,S 820P-50 SL					
C915	87-010-316-080	C-CAP,S 33P-50 CH					
				RELAY-1 C.B			
C916	87-010-177-080	C-CAP,S 820P-50 SL					
C917	87-010-179-080	C-CAP,S 1200P-50 B					

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION	REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
RELAY-2 C.B				MOTOR-2 C.B			
MOTOR-1 C.B				C91	87-010-137-010		CAP,E 22-16 BP
M1	9X-262-513-210		SLED MOTOR ASSY	M3	9X-262-511-710		LOADING MOTOR ASSY
M2	9X-262-513-210		SPINDLE MOTOR ASSY	PIN501	91-564-721-110		CONNECTOR 5P
PIN105	91-564-722-110		CONNECTOR 6P	SW2	91-572-086-110		LEAF SW
SW1	91-572-085-110		LEAF SW	SW3	91-572-086-110		LEAF SW

○チップ抵抗部品コード／CHIP RESISTOR PART CODE

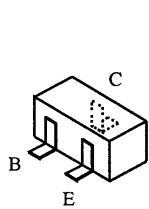
チップ抵抗部品コードの成り立ち
Chip Resistor Part Coding



チップ抵抗
Chip resistor

Wattage 容量	Type 種類	Tolerance 許容誤差	Symbol 記号	Dimensions/寸法 (mm)				Resistor Code : A 抵抗コード : A
				Form/外形	L	W	t	
1/32W	1608	± 5 %	CJ		1.6	0.8	0.35	108
1/10W	2125	± 5 %	CJ		2	1.25	1.45	118
1/8W	3126	± 5 %	CJ		3.2	1.6	0.5 ~0.7	128

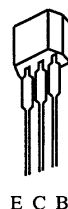
TRANSISTOR ILLUSTRATION



DTA114TK 2SA1162
DTA143EK 2SC1623
DTA144EK 2SC2712
DTA144WK 2SC2714
DTC144EK 2SC3326
RN1404



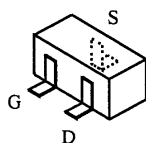
KTA1266 2SA952
KTC3198 2SC1815
2SA1296 2SC3266
2SA933 2SC3331



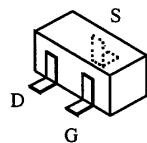
DTA114YS



2SK246



2SK543



2SK302
2SK211



2SB1370

FL, BJ256GK

	1G	10G	9G	8G	7G	6G	5G	4G	3G	2G	1G
P1	B10	B10	B10	C	d	2d	2d	2d	2d	SLEEP	20
P2	B1	B1	B1	B1	j , p	2j , 2p	2j , 2p	2j , 2p	2j , 2p	RANDOM	19
P3	B11	B11	B11	-	n	2n	2n	2n	2n		18
P4	B2	B2	B2	B2	r	2r	2r	2r	2r	AUTO	17
P5	B12	B12	B12	)	c	2c	2c	2c	2c	MULTIPLEX	16
P6	B3	B3	B3	B3	e	2e	2e	2e	2e	S2	15
P7	B13	B13	B13	O	m	2m	2m	2m	2m	S3	14
P8	B4	B4	B4	B4	g	2g	2g	2g	2g	(MULTIPLEX)	13
P9	B5	B5	B5	B5	f	2f	2f	2f	2f	(AUTO)	12
P10	B15	B15	B15	DO NR	b	2b	2b	2b	2b	-	11
P11	B6	B6	B6	B6	k	2k	2k	2k	2k	-	10
P12	B16	B16	B16	B10	h	2h	2h	2h	2h	-	9
P13	B7	B7	B7	B7	a	2a	2a	2a	2a	-	8
P14	B14	B14	B14	RECORD	AM [DOWN]	col 2	col1 [UP]	-	KHZ	-	7
P15	B17	B17	B17	B11	PM [DOWN]	-	MONO ((C))	5	-	-	6
P16	B8	B8	B8	B8		dp	col1 [DOWN]	-	MHZ	-	5
P17	B18	B18	B18	B12		1d	1d	1d	1d	-	4
P18	B9	B9	B9	B9	REC	1e	1e	1e	1e	-	3
P19	(ROCK)	(POP)	(CLASSIC)	B13	AM [UP]	1c	1c	1c	1c	-	2
P20	-	-	-	B14	-	1q	1q	1q	1q	-	1
P21	-	-	-	B15	/	1f	1f	1f	1f	-	EDIT
P22	-	-	-	B16		1b	1b	1b	1b	-	AI
P23	ROCK	POP	CLASSIC	B17	PM [UP]	1a	1a	1a	1a	-	PRGM
P24	S5	350 1K	2.5K 8K	S4	-	-	-	-	-	-	S1
P25	-	-	-	T-BASS	-	-	-	-	-	-	-
P26	-	-	-	BBE	-	-	-	-	-	-	-

[illegible]

-11-

IC DESCRIPTION
IC, CXD2518Q

Pin No.	Pin Name	I/O	Description
1	SCOR	O	Outputs high signal when either subcode sync S0 or S1 is detected. (not used)
2	SBSO	O	Sub P to W serial output. (not used)
3	EXCK	I	SBSO readout clock input. (connected to VDD)
4	SQSO	O	SubQ 80-bit serial output.
5	SQCK	I	SQSO readout clock input.
6	MUTE	I	High : mute; low: release. (connected to GND)
7	SENS	O	SENS output to CPU (LC866432V).
8	XRST	I	System reset. Reset when low.
9	DATA	I	Serial data input from CPU (LC866432V).
10	XLAT	I	Latch input from CPU (LC866432V). Serial data is latched at the falling edge.
11	CLOK	I	Serial data transfer clock input from CPU (LC866432V).
12	VSS	–	GND.
13	SEIN	I	Sense input from SSP (CXA1782BQ).
14	CNIN	I	Track jump count signal input.
15	DATO	O	Serial data output to SSP (CXA1782BQ).
16	XLTO	O	Serial data latch output to SSP (CXA1782BQ). Latched at the falling edge.
17	CLKO	O	Serial data transfer clock output to SSP (CXA1782BQ).
18	TEST2	I	Test pin; normally connected to VDD.
19	SPOB	I	Microcomputer extended interface (input B). (connected to SW1)
20	SPOC	I	Microcomputer extended interface (input C). (connected to VDD)
21	SPOD	I	Microcomputer extended interface (input D). (connected to VDD)
22	XLON	O	Microcomputer extended interface (output). (not used)
23	FOK	I	Focus OK input. Used for SENS output and the servo auto sequencer.
24	MON	O	Spindle motor on/off control output.
25	MDP	O	Spindle motor servo control output.
26	MDS	O	Spindle motor servo control. (not used)
27	LOCK	O	GFS is sampled at 460 Hz; when GFS is high, this pin outputs a high signal. If GFS is low eight consecutive samples, this pin outputs low.
28	TEST	I	TEST pin. Normally connected to GND.
29	FILO	O	Master PLL (slave = digital PLL) filter output.
30	FILI	I	Master PLL filter input.
31	PCO	O	Master PLL charge pump output.
32	VDD	–	Digital power supply for DSP (+5V).
33	AVSS1	–	Analog GND for DSP.
34	CLTV	I	Master PLL VCO control voltage input.
35	AVDD1	–	Analog power supply for DSP (+5V).
36	RF	I	EFM signal input.
37	BIAS	I	Constant current input of asymmetry compensation circuit.
38	ASYI	I	Asymmetry compensation circuit comparator voltage input.
39	ASYO	O	EFM full-swing output (low = VSS, high = VDD).
40	ASYE	I	Compensation off; high: asymmetry compensation on (connected to VDD).

Pin No.	Pin Name	I/O	Description
41	WDCK	O	D/A interface for 48-bit slot. Word clock (2FS). (not used)
42	LRCK	O	D/A interface for 48-bit slot. LR clock (FS).
43	LRCKI	I	LR clock input for DAC. (48-bit slot)
44	PCMD	O	D/A interface. Serial data (two's complement, MSB first).
45	PCMDI	I	Audio data input for DAC. (48-bit slot)
46	BCK	O	D/A interface. Bit clock.
47	BCKI	I	Bit clock input for DAC. (48-bit slot)
48	GTOP	O	GTOP output. (not used)
49	XUGF	O	XUGF output. (not used)
50	XPCK	O	XPLCK output. (not used)
51	GFS	O	GFS output. (not used)
52	RFCK	O	RFCK output. (not used)
53	VSS	–	GND.
54	C2PO	O	C2PO output. (not used)
55	XROF	O	XRAOF output. (not used)
56	MNT3	O	MNT3 output. (not used)
57	MNT1	O	MNT1 output. (not used)
58	MNT0	O	MNT0 output. (not used)
59	FSTT	O	2/3 frequency divider output for Pins 73 and 74. (not used)
60	C4M	O	4.2336 MHz output. (not used)
61	DOUT	O	Digital Out output.
62	EMPH	O	Outputs high signal when the playback disc has emphasis, low signal when no emphasis.
63	EMPHI	I	DAC de-emphasis on/off. High: on; low: off.
64	WFCK	O	WFCK (write frame clock) output. (not used)
65	ZEROL	O	No-sound data detection output; high when "no audio" data is detected. (Left channel) (not used)
66	ZEROR	O	No-sound data detection output; high when "no audio" data is detected. (Right channel) (not used)
67	DTSI	I	Test pin 1 for DAC; normally low. (connected to GND)
68	VDD	–	Digital power supply for DAC (+5V).
69	LPWM	O	Left channel PWM output. (Forward phase)
70	NLPWM	O	Left channel PWM output. (Reverse phase)
71	AVDD2	–	Power supply for left channel PWM driver (+5V).
72	AVDD3	–	Power supply for crystal (+5V).
73	XTAI	I	33.8688 MHz crystal oscillation circuit input.
74	XTAO	O	33.8688 MHz crystal oscillation circuit output.
75	AVSS3	–	GND for crystal.
76	AVSS2	–	GND for PWM driver.
77	NRPWM	O	Right channel PWM output. (Reverse phase)
78	RPWM	O	Right channel PWM output. (Forward phase)
79	DTS2	I	DAC test pin 2; normally low. (connected to GND)
80	DTS3	I	DAC test pin 3; normally low. (connected to GND)

Pin No.	Pin Name	I/O	Description
1	O-MUTE	O	System mute.
2	O- PLL CE	O	PLL IC (LC7218) chip enable output for tuner.
3	O-STB(M)	O	Strobe signal for shift register, (4094) (MAIN C.B).
4	O-DATA(M)	O	Serial data for shift register, PLL IC (LC7218) (MAIN C.B).
5	O-CLK(M)	O	Clock signal for shift register, PLL IC (LC7218) (MAIN C.B).
6	I-HOLD	I	When the AC power is not supplied and the input is L, the controller is held. (Clock stop and memory maintain)
7	RESET	I	Reset input.
8	I-STEREO	I	Stereo ON signal input.
9	I-TUNE/IFC	I	Tuner Stereo Detect input / IF count serial data input.
10	VSS1	–	Gnd.
11	CF1	I	5.76MHz oscillation circuit input.
12	CF2	I	
13	VDD1	–	Power supply (+5.5V).
14	I-KEY1	I	Key matrix input.
15	I-KEY2	I	Key matrix input.
16	I-KEY3	I	Key matrix input.
17	I-CD.SW	I	CD tray OPEN / CLOSE switch signal.
18	–	–	Not used.
19	I-MS	I	Music sensor input signal.
20	I-SPEANA	I	Analog input for the spectrum analyzer.
21	I-MIC	I	Mic input signal.
22	I-TMBASE	I	Clock pulse (8Hz) input from PLL IC (LC7218).
23	I-SENSE(CD)	I	CD control.
24	I-RMC	I	Remote control input.
25 ~ 35	G11 ~ G1	O	FL display grid output.
36 ~ 40	P23 ~ P19	O	FL display segment output.
41	VDD2	–	Power supply (+5.5V).
42	–VP	–	Negative pulldown voltage.
43	P18/I-SW.CST1	O/I	FL display segment output / Deck 1 Cassette switch input.
44	P17/I-AUTO1	O/I	FL display segment output / Deck 1 Auto Stop signal input.
45	P16/I-SW.CAM1	O/I	FL display segment output / Deck 1 Cam switch input.
46	P15/I-SW.RECB2	O/I	FL display segment output / Deck 2 Side B Rec switch input.
47	P14/I-SW.RECA2	O/I	FL display segment output / Deck 2 Side A Rec switch input.
48	P13/I-SW.CST2	O/I	FL display segment output / Deck 2 Cassette switch input.
49	P12/I-SW.AUTO2	O/I	FL display segment output / Deck 2 Auto Stop signal input.
50	P11/I-SW.CAM2	O/I	FL display segment output / Deck 2 Cam switch input.
51	P10/I-FMWIDE	O/I	FL display segment output / FM Wide select input.
52	P1/I-AMST	O/I	FL display segment output / AM Stereo select input.
53	P2/I-AM10K	O/I	FL display segment output / AM 10KHz step select input.
54	P3/I-LW	O/I	FL display segment output / Long Wave select input.

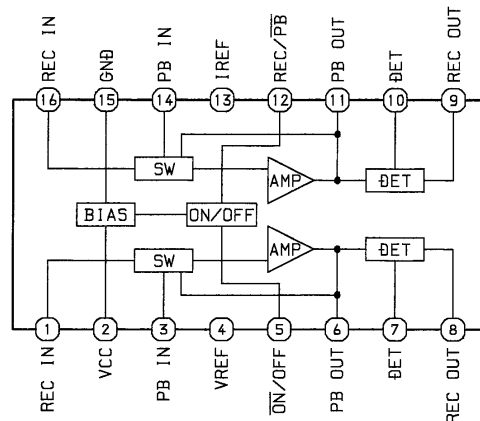
Pin No.	Pin Name	I/O	Description
55	P4/I-SW	O/I	FL display segment output / Short Wave select input.
56	P5/I-BBE	O/I	FL display segment output / BBE select input.
57	P6/I-DSP	O/I	FL display segment output / DSP select input.
58	P7	O	FL display segment output.
59	P8	O	FL display segment output.
60	P9	O	FL display segment output.
61	O-CLOSE(CD)	O	CD tray CLOSE signal.
62	O-OPEN(CD)	O	CD tray OPEN signal.
63	GEQB	O	Graphic Equalizer control signal.
64	GEQA	O	Graphic Equalizer control signal.
65	O-KEY.SCAN	O	Switch scan timing output.
66	O-SOL1	O	Deck 1 Plunger $\overline{\text{ON}}$ / OFF output.
67	O-SOL2	O	Deck 2 Plunger $\overline{\text{ON}}$ / OFF output.
68	O-MOTOR	O	Detect motor $\overline{\text{ON}}$ / OFF output.
69	O-STB(F)	O	Strobe signal for shift register (4094) (FRONT C.B).
70	O-DATA(F)	O	Serial data for shift register (4094) (FRONT C.B).
71	O-CLK(F)	O	Clock signal for shift register (4094) (FRONT C.B).
72	O-POWER	O	Power $\overline{\text{ON}}$ / OFF control.
73	VSS2	–	Gnd.
74	DSP	O	Front surround speaker relay switch.
75	O-DATA(CD)	O	CD control data output.
76	O-XLT(CD)	O	CD control data latch output.
77	O-CLK(CD)	O	Clock signal for CD control data.
78	I-SUBQ(CD)	I	Sub-Q data input from CD IC (CXD2518Q).
79	O-SQCLK(CD)	O	Clock signal for Sub-Q data input.
80	O-DSP CE	O	DSP (M65830P) chip enable logic.

Pin No.	Pin Name	I/O	Description
1	X-IN	–	A crystal oscillator (7.2MHz) is connected between these pins.
24	X-OUT	–	
2	CE	I	To enable the IC. Active "H".
3	DI	I	Digital data input from CPU (LC866432V-5576) when relevant key is operated. Active "H".
4	CLK	I	To clock in the data DI.
5	DO	O	Digital data output to CPU (LC866432V-5576).
6	–	–	Not used.
7	$\overline{\text{TUNE}}$	I	Receives "L" when station is tuned.
8	$\overline{\text{ST}}$	I	Receives "L" when stereo is obtained.
9	T-BASE	O	Outputs a reference clock signal (8Hz) for the clock.
10	MUTE	O	To control internal counter.
11	MODE	O	Outputs "H" when stereo is switched.
12	$\overline{\text{SW2/FM1}}$	–	Not used.
13	$\overline{\text{FM/AM}}$	O	Outputs "L" if AM & "H" is FM.
14	$\overline{\text{MW}}$	O	Outputs "L" when MW is selected.
15, 16	IFIN	I	General purpose counter input.
17	$\overline{\text{FM2}}$	O	Outputs "L" when a FM broadcast is received.
18	AM-I	I	Receives the AM local oscillator frequency signal.
19	FM-I	I	Receives the FM local oscillator frequency signal.
20	VDD	–	Supply power to IC (+5V).
21	E O	O	PLL charge pump output.
22	–	–	Not used.
23	VSS	–	Ground.

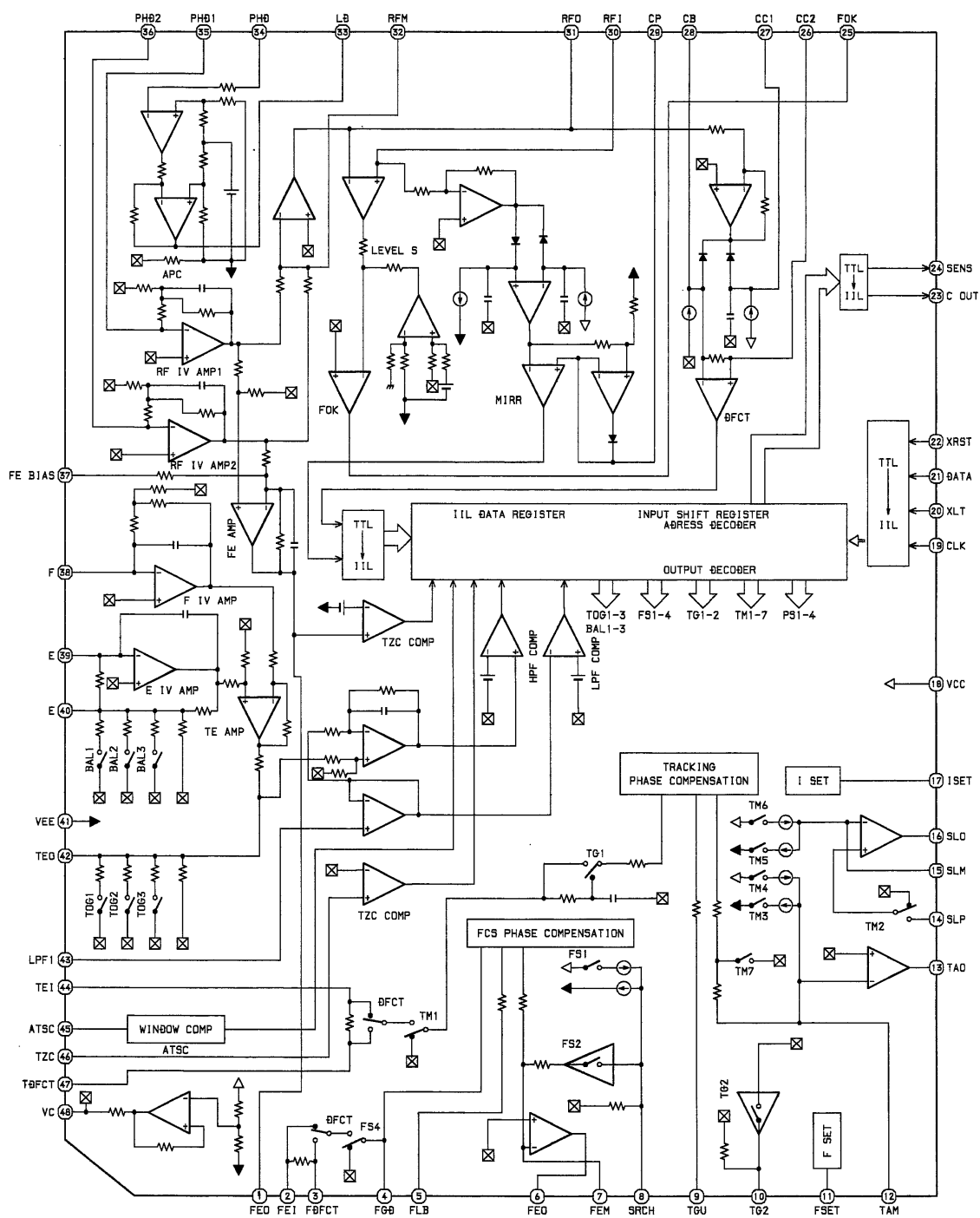
Pin No.	Pin Name	I/O	Description
1	A	I	Multiplexer Control A (see table – 1).
2	B	I	Multiplexer Control B (see table – 1).
3	C	I	Multiplexer Control C (see table – 1).
4	SEL	I	Low to disable A,B,C. High to enable the output.
5	CLKR	–	Clock resistor: The timing resistor would be tied from this pin to pin CLKC.
6	CLKC	–	Clock capacitor: The timing capacitor should be tied to this pin to ground.
7	NC	–	No connection.
8	VSS	–	Nominally –6V. This should be decoupled with at least a 0.47 μ F to ground located as close as possible to this pin.
9	GND	–	Ground for both digital and analog.
10	A-OUT	O	Peak hold output of all the filters. This output can drive a 10K Ω load.
11	NC	–	No connection.
12	RIN	I	Right Channel Input: The input impedance of this pin is greater than 1M Ω .
13	LIN	I	Left Channel Input: The input impedance of this pin is greater than 1M Ω .
14	VDD	–	Nominally 6V. This should be decoupled with at least a 0.47 μ F to ground located as close as possible to this pin.

Table – 1. Filter Select Table

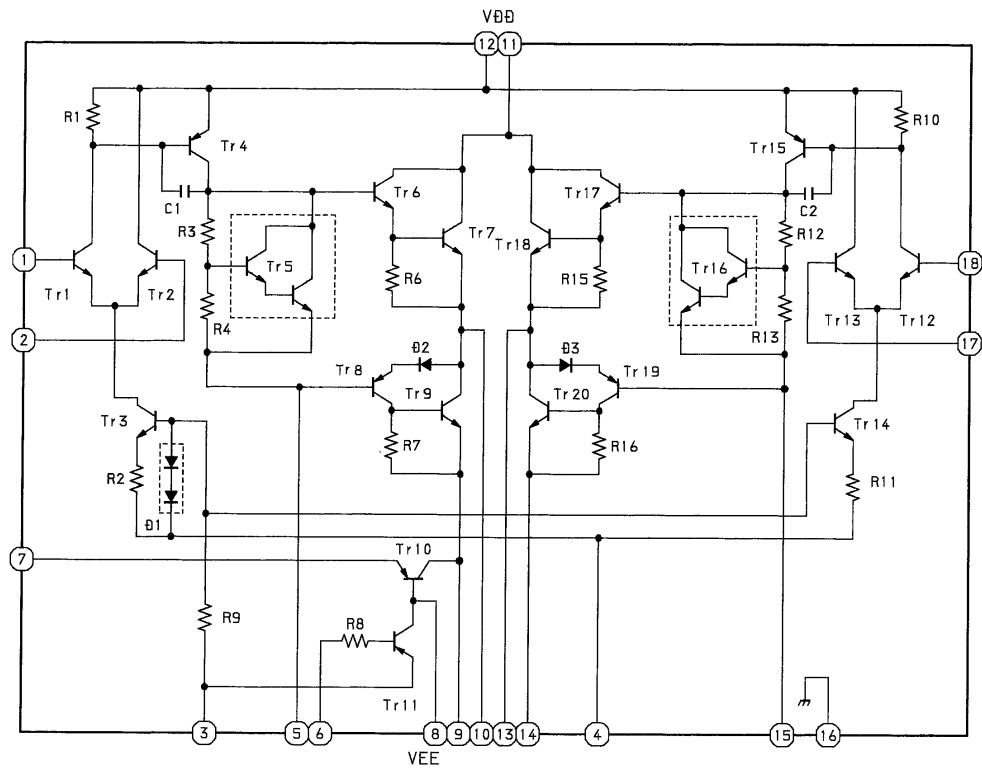
SEL	A	B	C	AOUT
0	X	X	X	GND
1	0	0	1	65Hz
1	0	1	0	150Hz
1	0	1	1	350Hz
1	1	0	0	1KHz
1	1	0	1	3KHz
1	1	1	0	6.3KHz
1	1	1	1	12KHz
1	0	0	0	GND



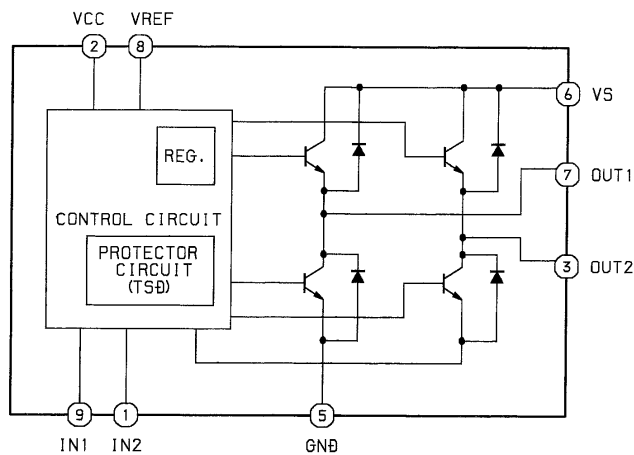
IC BLOCK DIAGRAM
IC, CXA1782BQ



IC, STK4142-MK2



IC, TA7291S

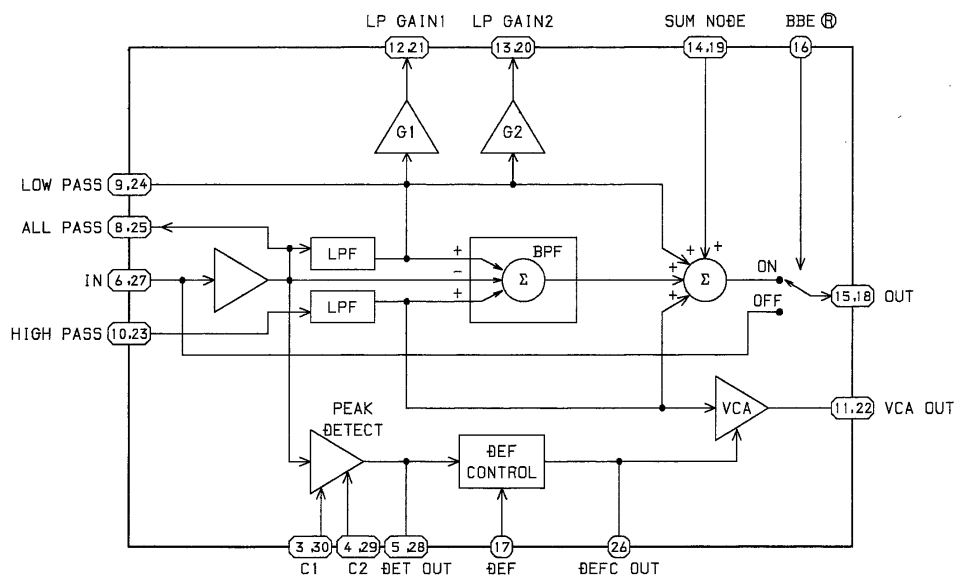


TRUTH TABLE

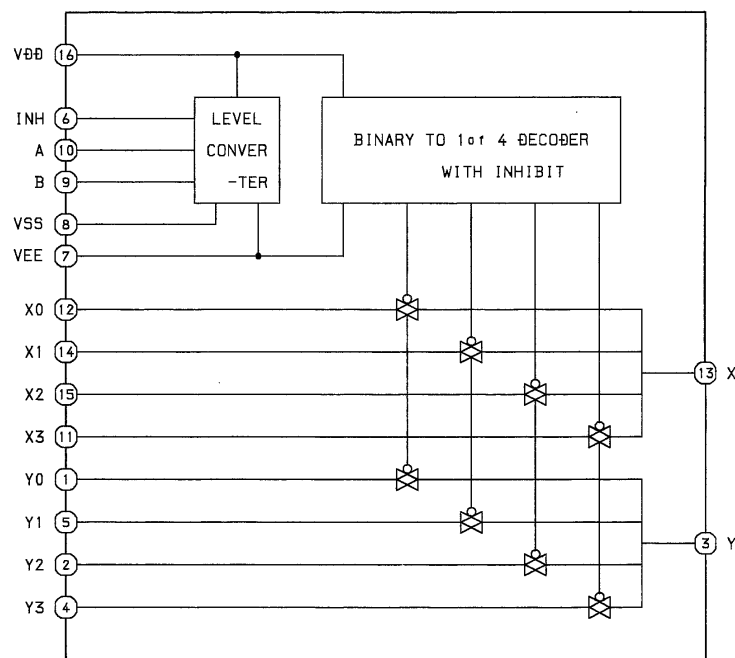
INPUT		OUTPUT		MODE
IN1	IN2	OUT1	OUT2	
0	0	∞	∞	STOP
1	0	H	L	CW
0	1	L	H	CCW
1	1	L	L	BRAKE

∞ : HI IMPEDANCE
NOTE : INPUT "H" ACTIVE

IC, XR-1071CP



IC, BU4052B
IC, BU4052BF

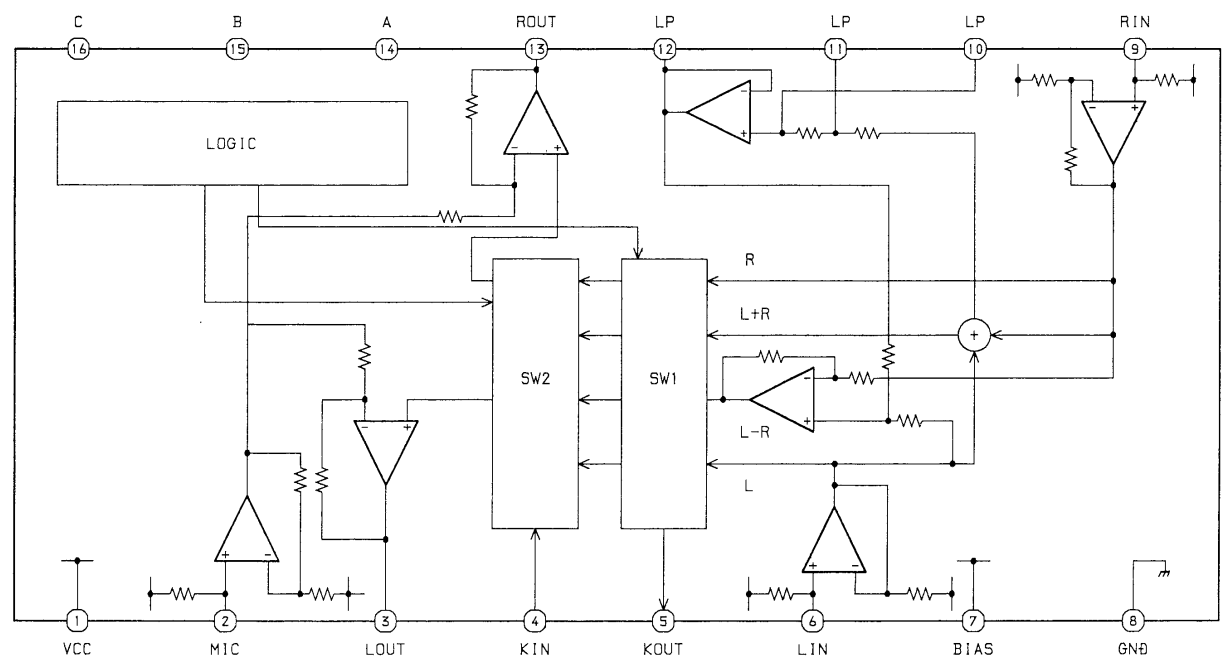


TRUTH TABLE

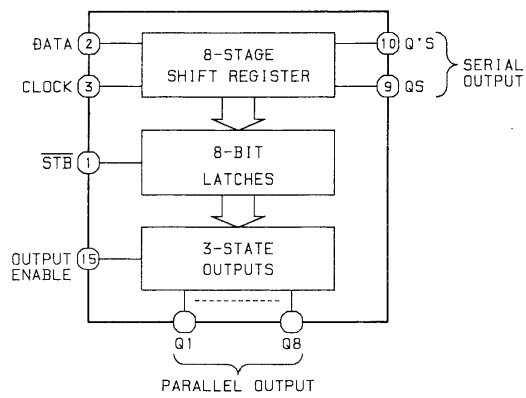
INHIBIT	A	B	ON SWITCH
L	L	L	X0, Y0
L	H	L	X1, Y1
L	L	H	X2, Y2
L	H	H	X3, Y3
H	X	X	NONE

X = Don't Care

IC, BA3837



IC, BU4094B
IC, BU4094BF

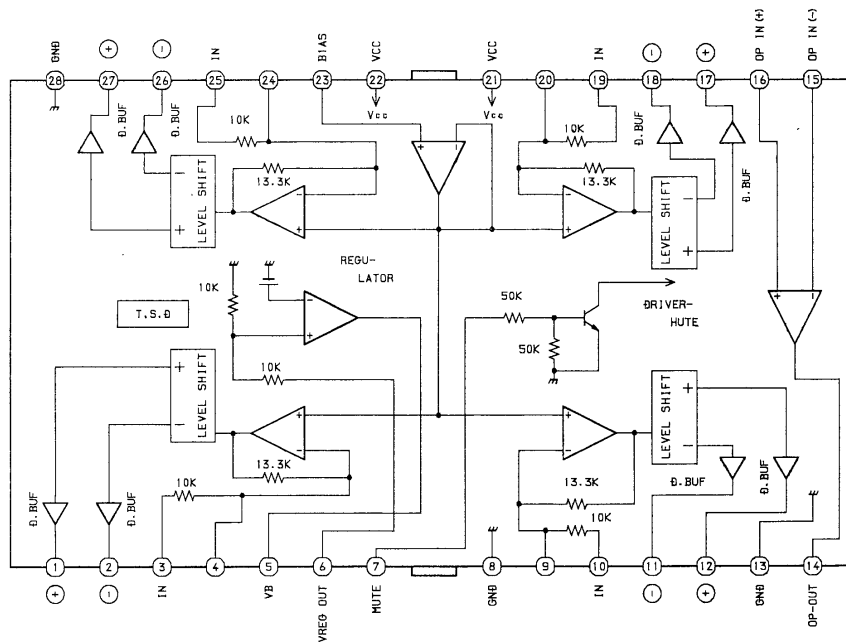


TRUTH TABLE

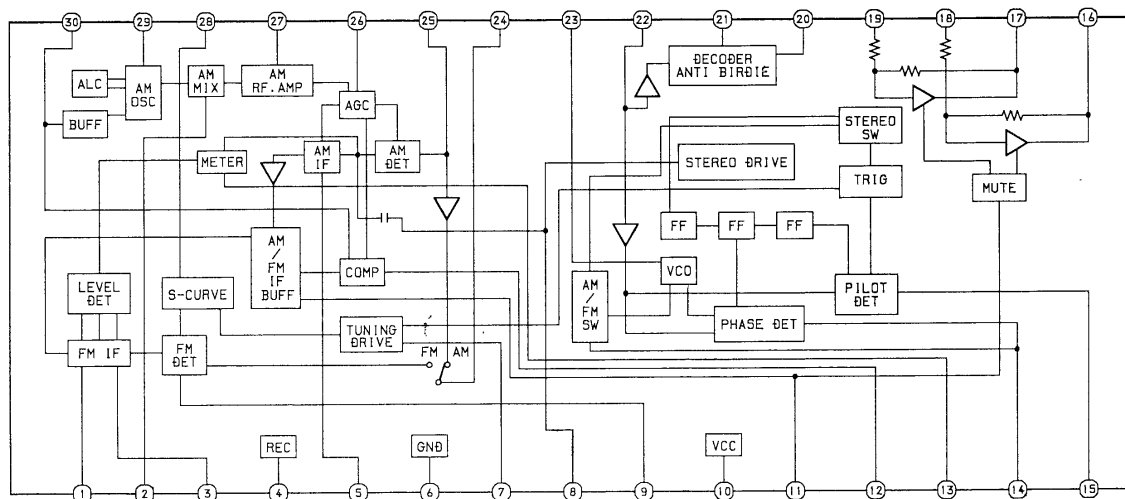
CLOCK	OUTPUT ENABLE	STROBE	DATA	PARALLEL OUTPUTS		SERIAL OUTPUTS	
				Q1	Qn	QS	Q'S
	L	x	x	Z	Z	Q7	NO CHG.
	L	x	x	Z	Z	NO CHG.	QS
	H	L	x	NO CHG.	NO CHG.	Q7	NO CHG.
	H	H	L	L	Qn-1	Q7	NO CHG.
	H	H	H	H	Qn-1	Q7	NO CHG.
	H	x	x	NO CHG.	NO CHG.	NO CHG.	QS

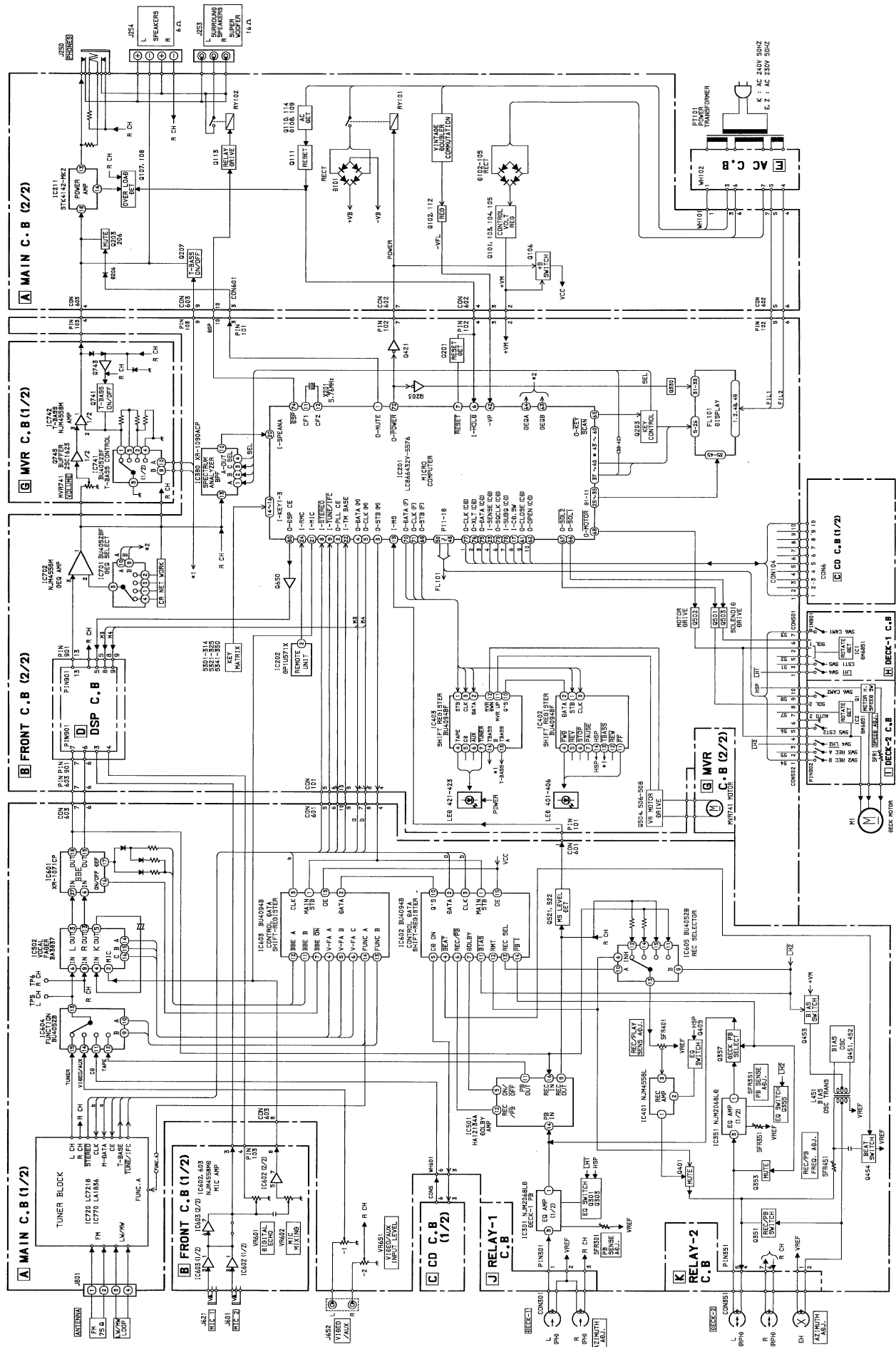
Z = HIGH IMPEDANCE
x = DON'T CARE

IC, BA6397FP

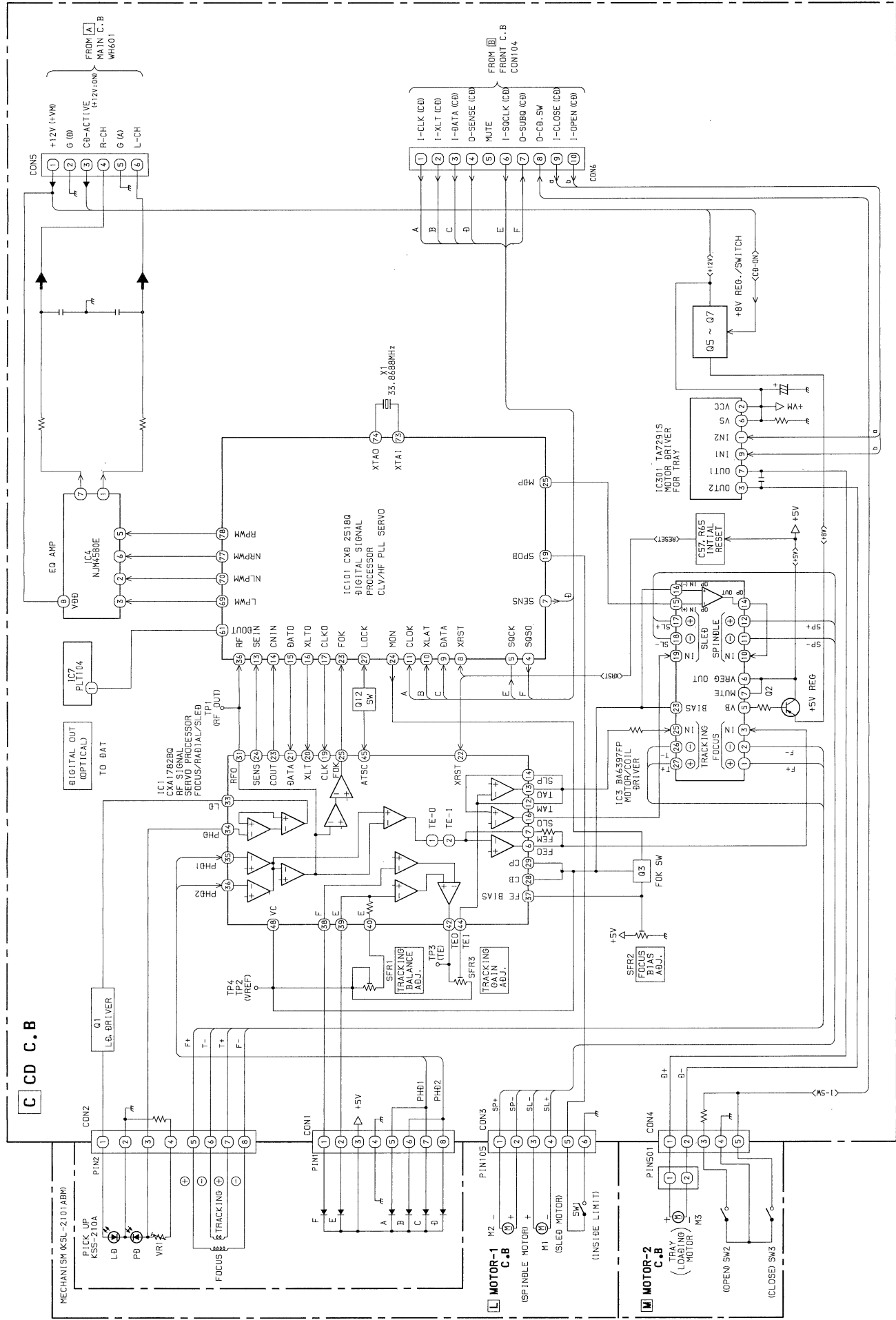


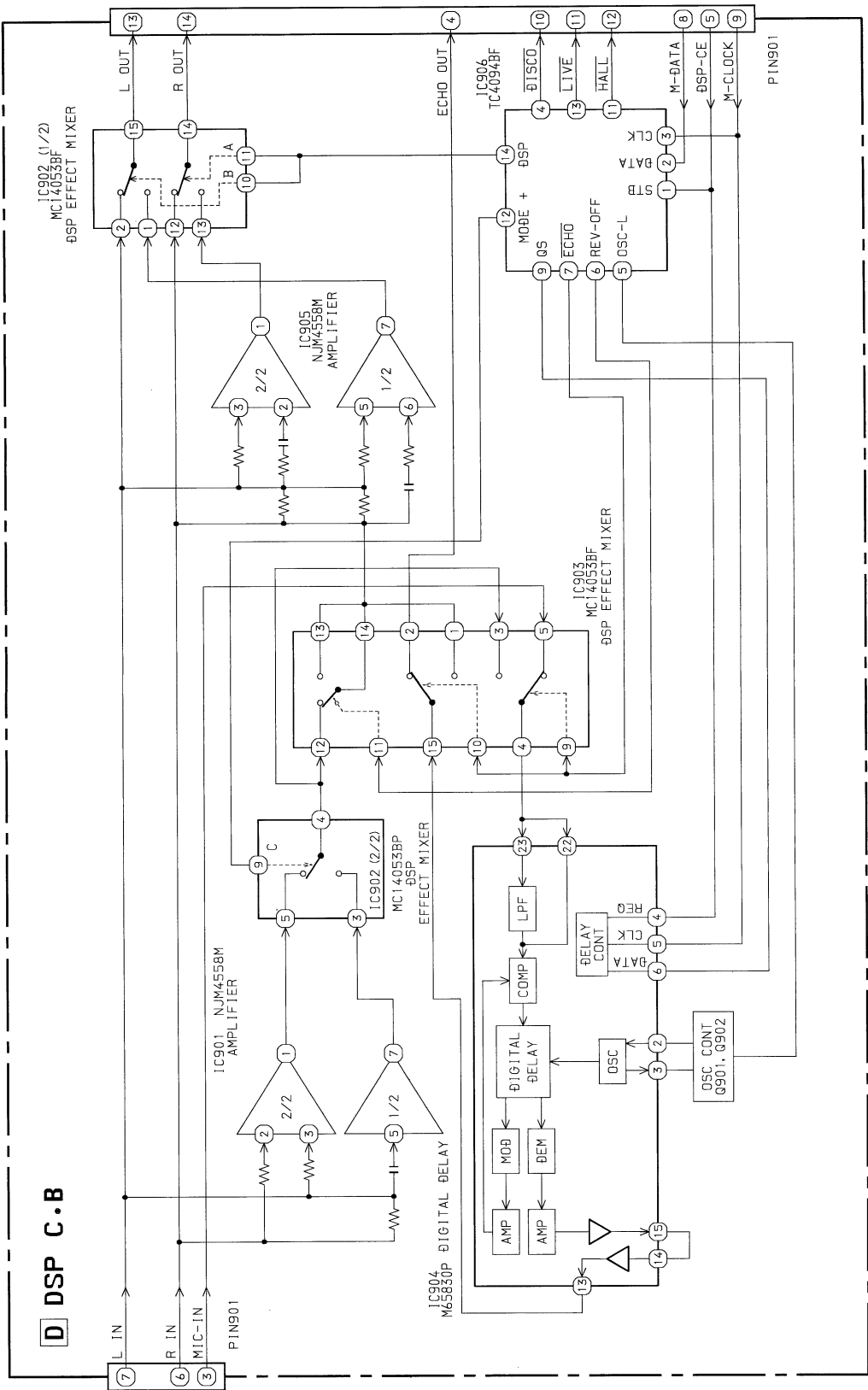
IC, LA1836

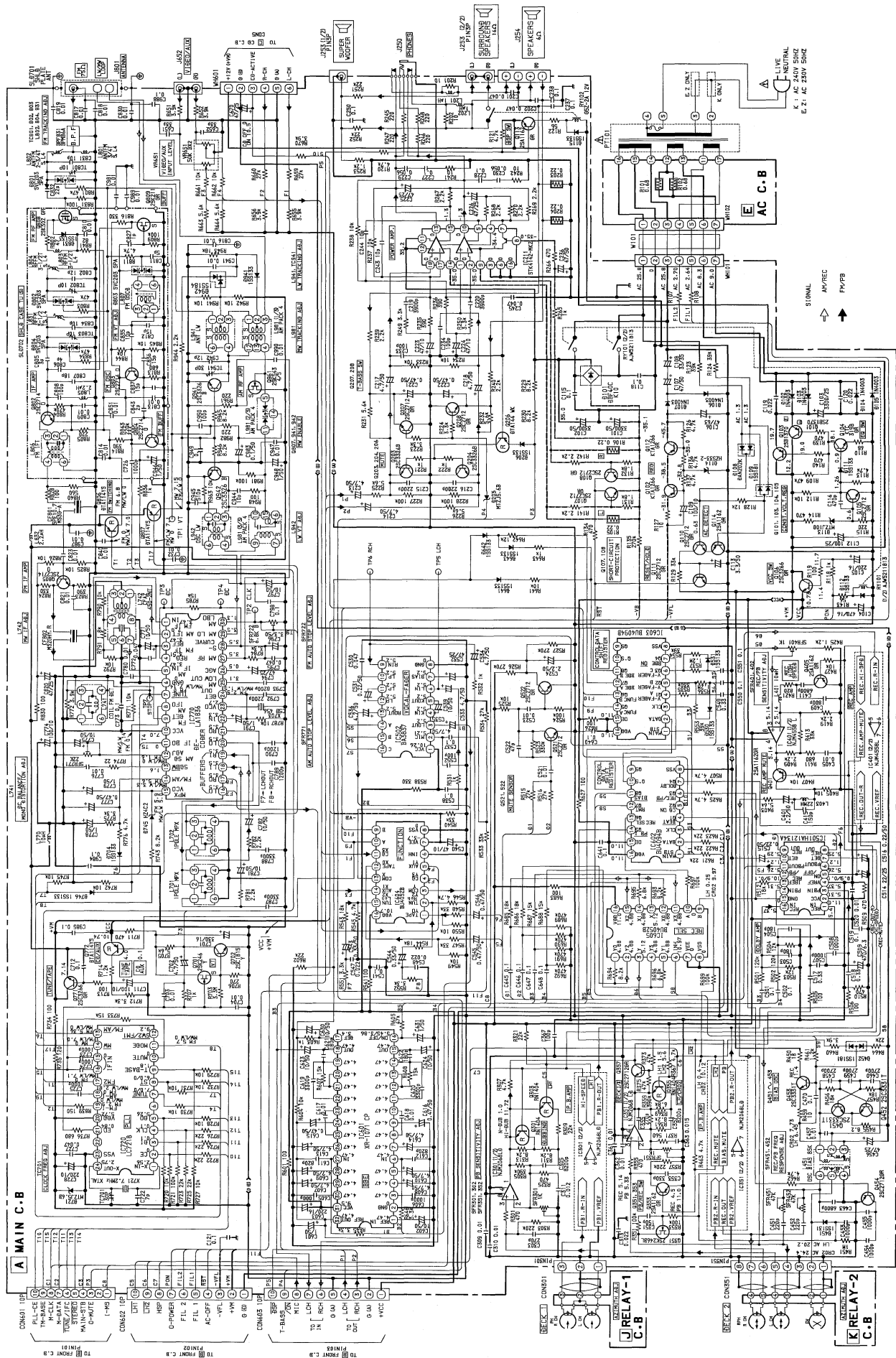












A MAIN C.B

FROM [X] RELAY-2 C.B FROM [Y] RELAY-1 C.B

CON351 1

TO PIN351

TO PIN301

J801

ANTENNA

LMW LOOP

75Ω

VR651

VIDEO/AUX

INPUT LEVEL

J652

VIDEO/AUX

AUX

J253

TO [E] AC C.B

WH102

1 3 5 4

CONS

TO [C] CB C.B

BLK

WHT

J253

SURROUND

SPEAKERS

SPEAKER IMP.

16Ω+16Ω

J253

SUPER

WOOFER

J254

SPEAKERS

INP. 1 6Ω

J250

PHONES

TO [B] FRONT C.B

PIN101

TO [B] FRONT C.B

PIN102

TO [B] FRONT C.B

PIN103

TO [B] FRONT C.B

PIN104

TO [B] FRONT C.B

PIN105

TO [B] FRONT C.B

PIN106

TO [B] FRONT C.B

PIN107

TO [B] FRONT C.B

PIN108

TO [B] FRONT C.B

PIN109

TO [B] FRONT C.B

PIN110

TO [B] FRONT C.B

PIN111

TO [B] FRONT C.B

PIN112

TO [B] FRONT C.B

PIN113

TO [B] FRONT C.B

PIN114

TO [B] FRONT C.B

PIN115

TO [B] FRONT C.B

PIN116

TO [B] FRONT C.B

PIN117

TO [B] FRONT C.B

PIN118

TO [B] FRONT C.B

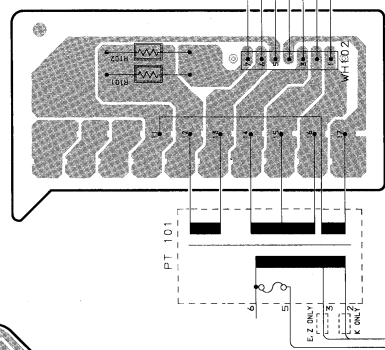
PIN119

TO [B] FRONT C.B

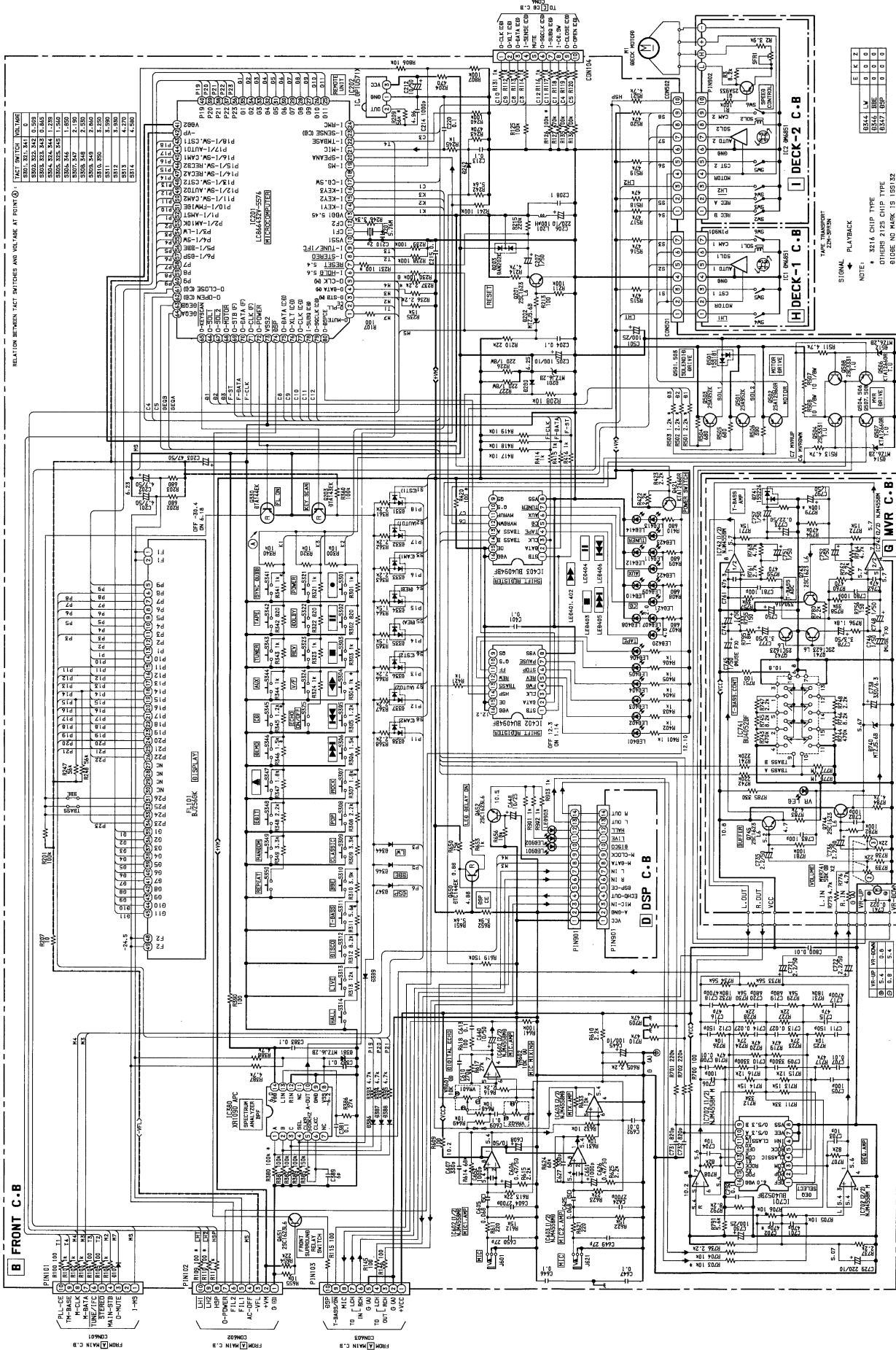
PIN120

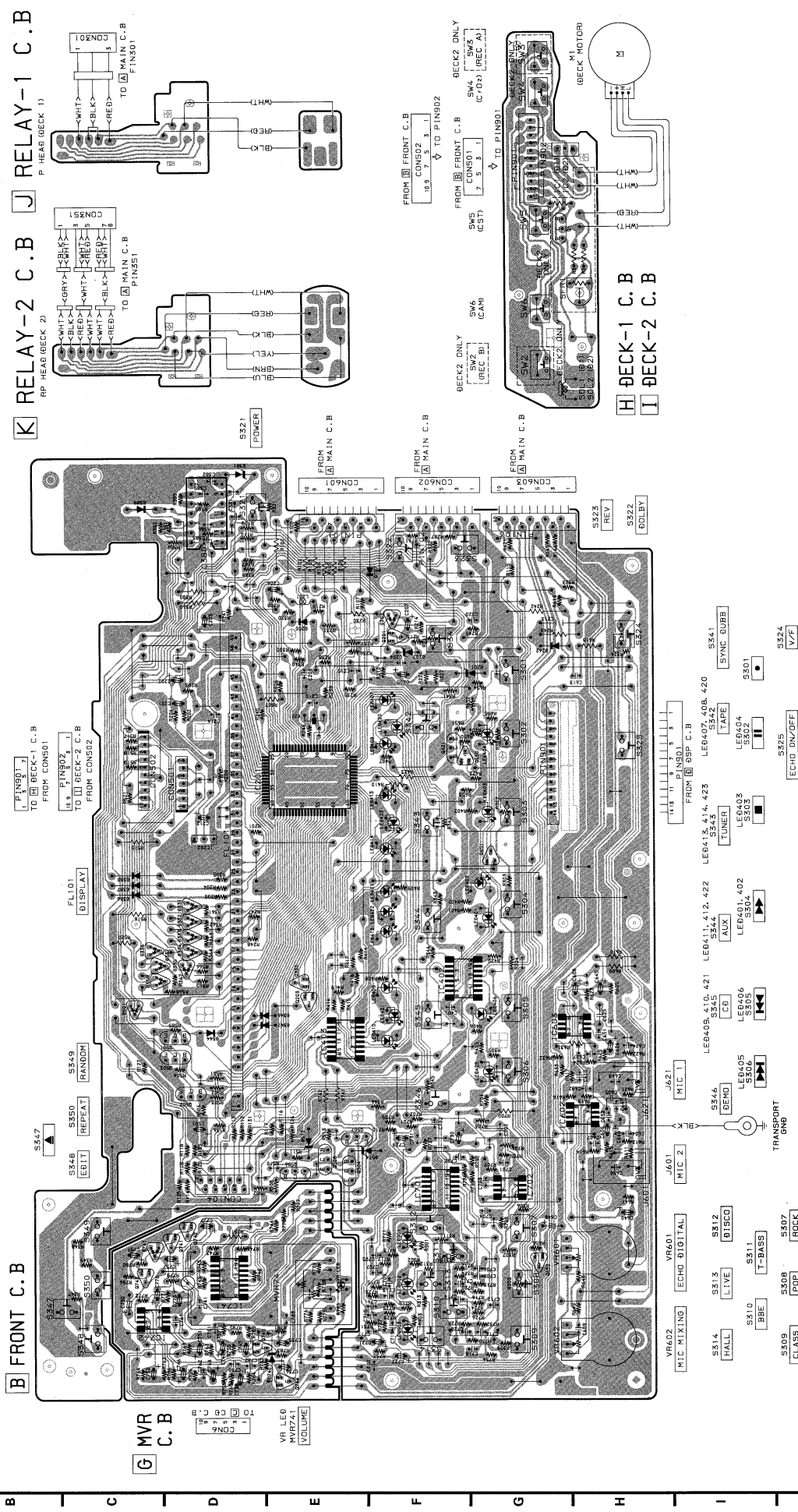
TO [B] FRONT C.B

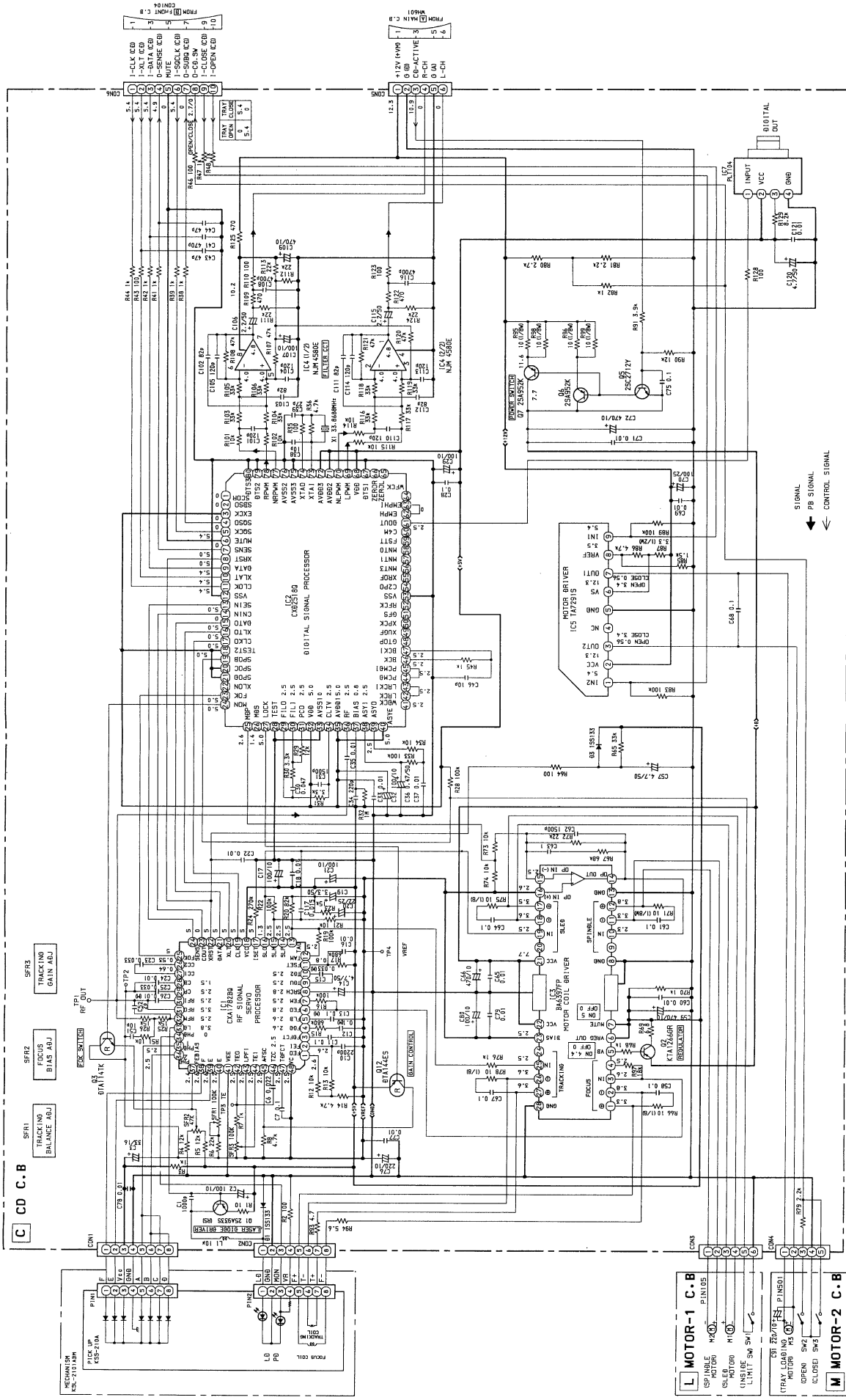
E AC C.B



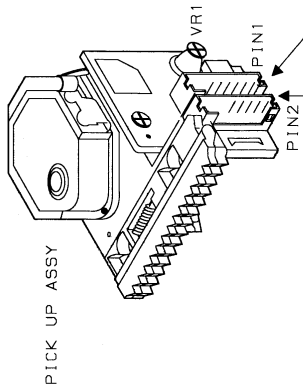
K : AC 240V 50HZ
E.Z : AC 230V 50HZ



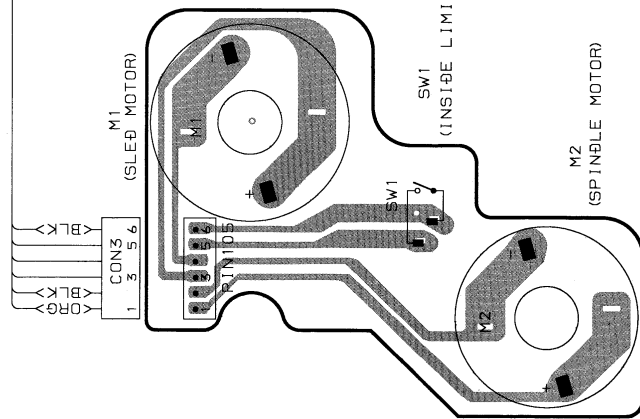




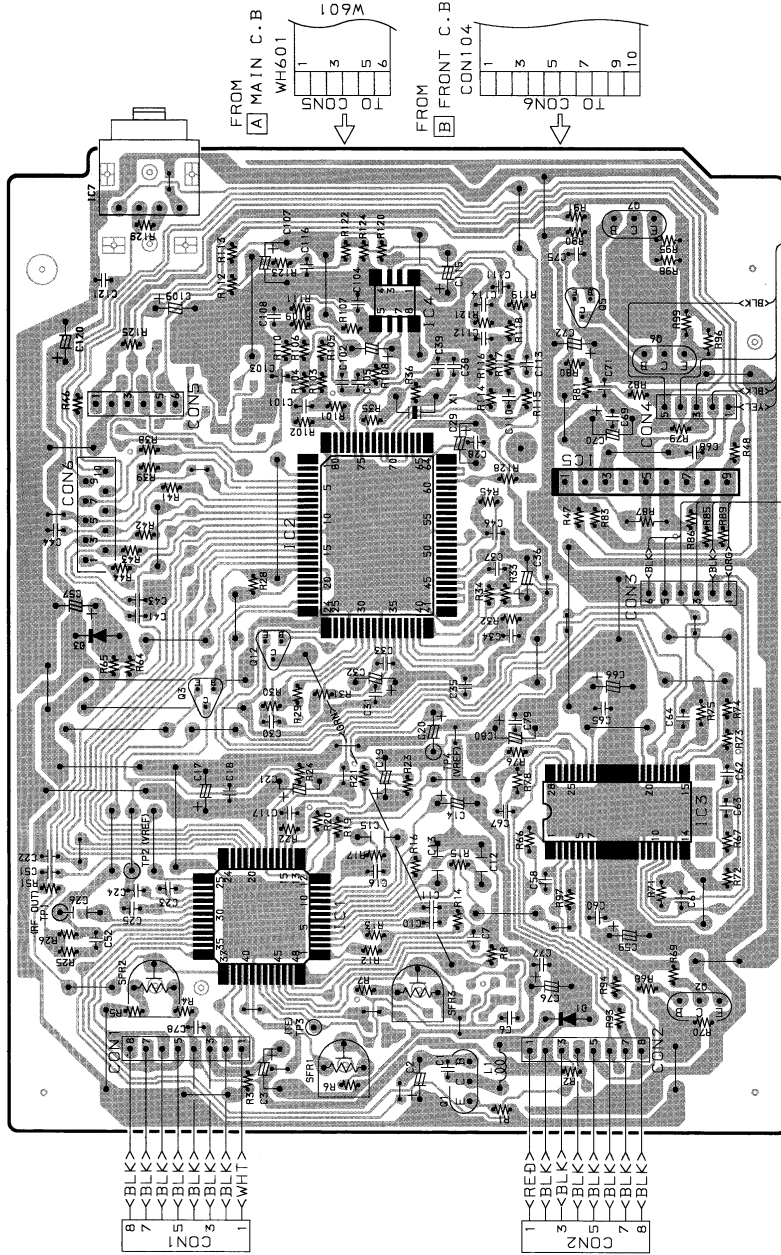
A B C D E F G H I J



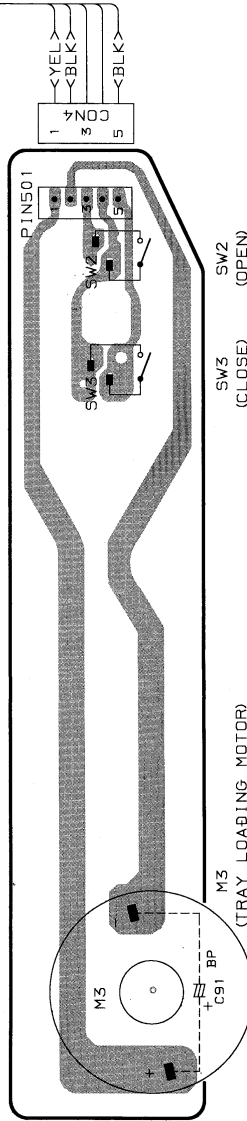
L MOTOR-1 C.B

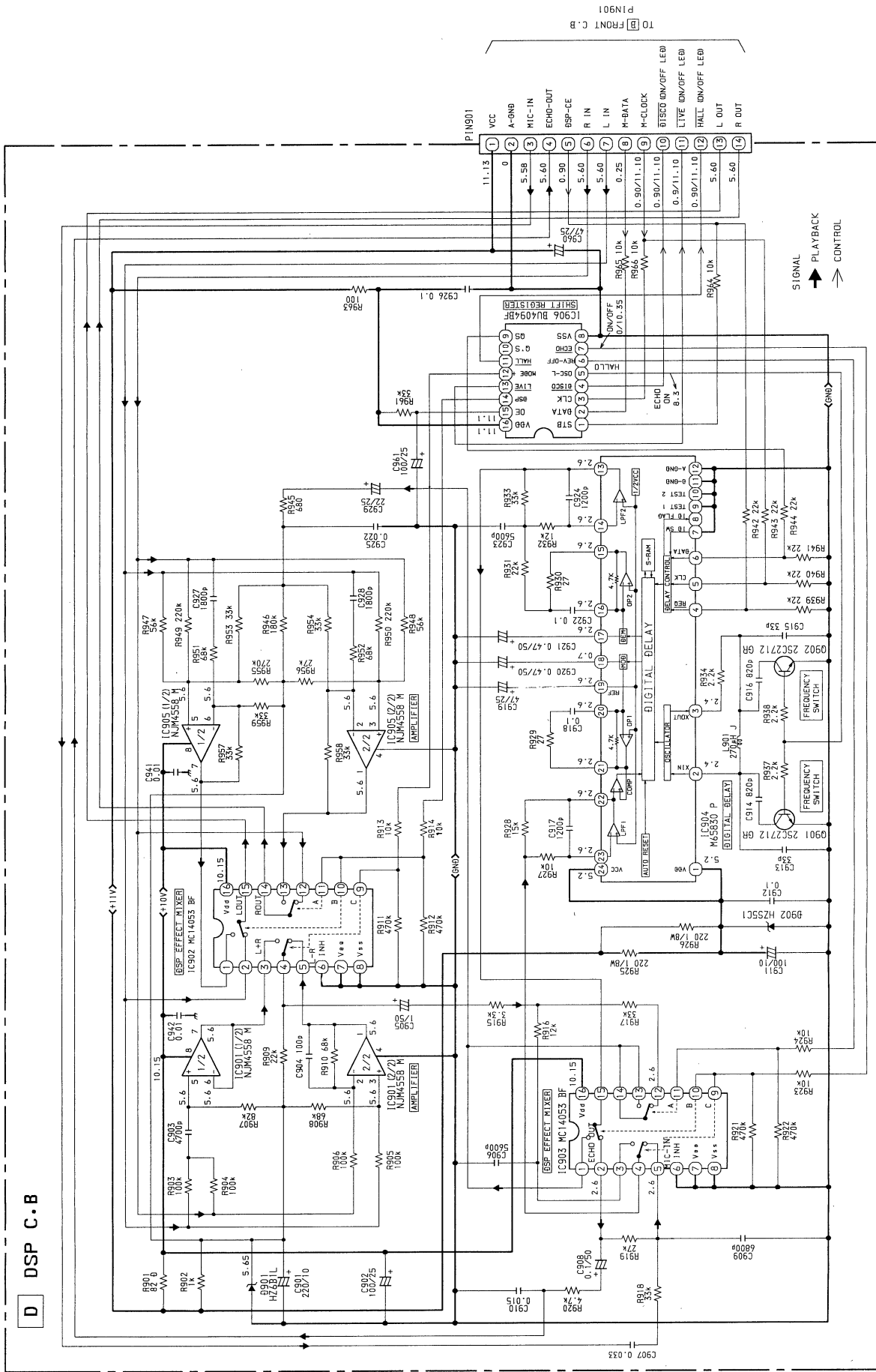


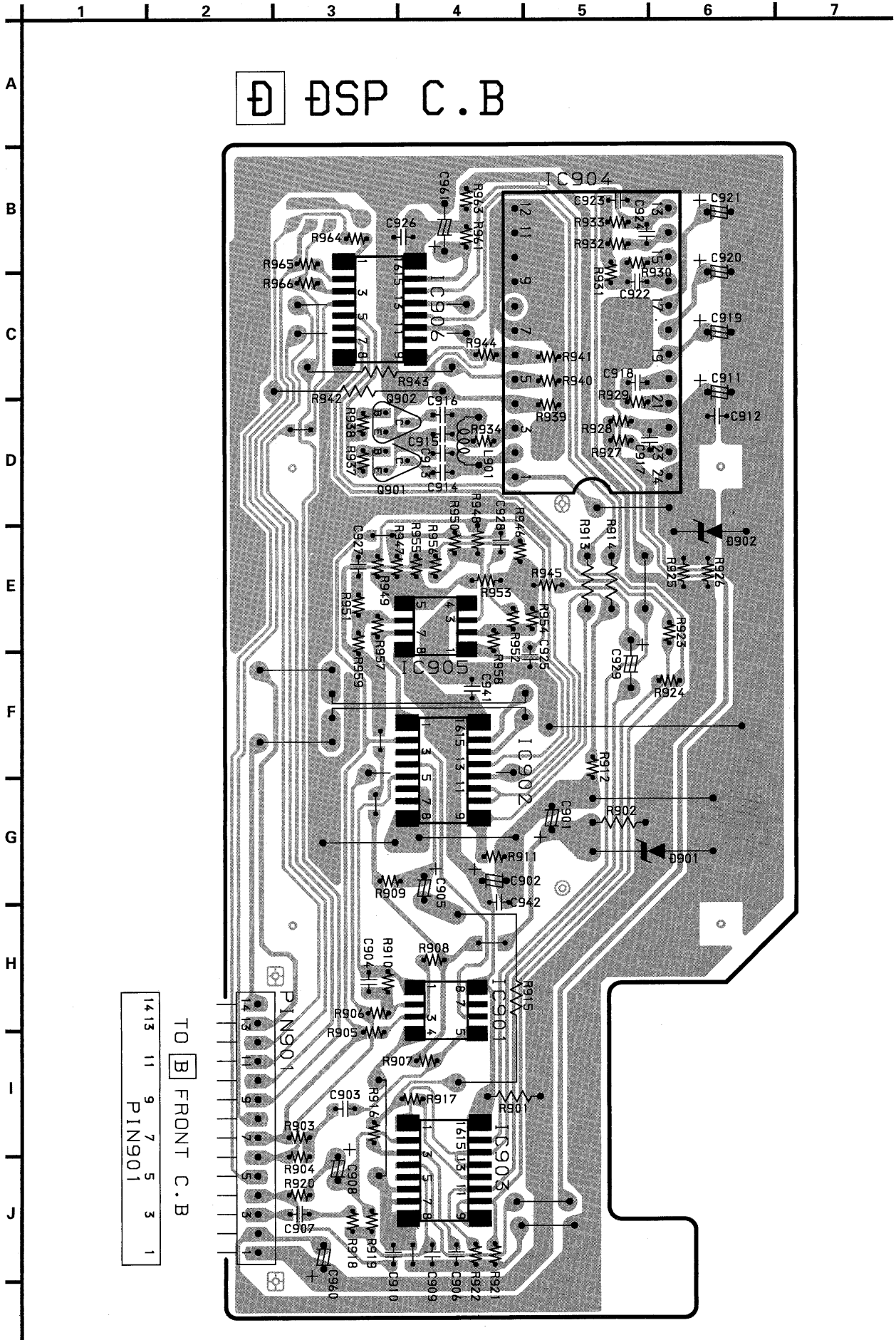
C CD C.B



M MOTOR-2 C.B

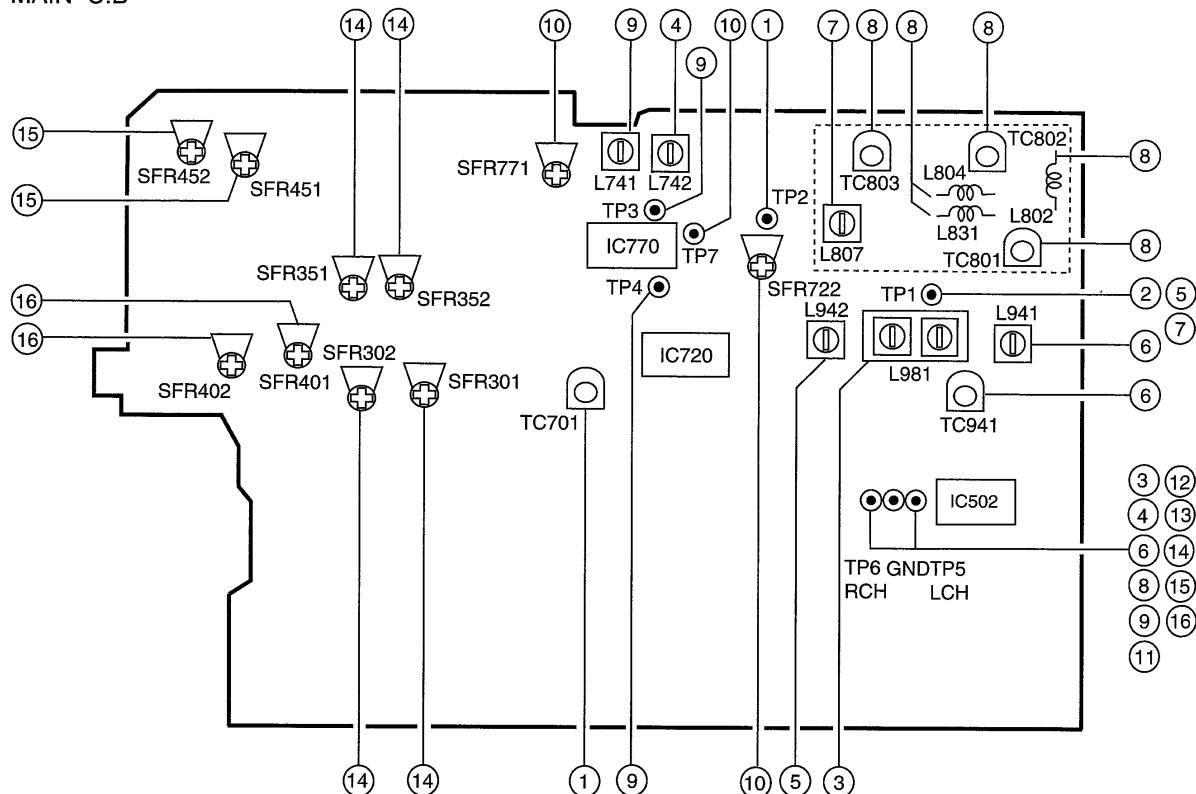




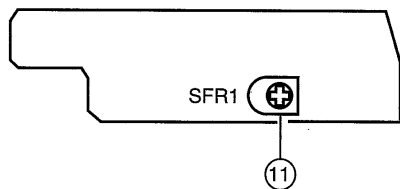


ADJUSTMENT – 1 <TUNER / DECK>

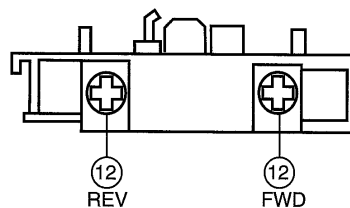
A MAIN C.B



I DECK-2 C.B



DECK-1 P, DECK-2 R / P / E HEAD



< TUNER SECTION >

1. Clock Frequency Adjustment

Settings : • Test point : TP2 (CLK IC770 pin30)
• Adjustment location : TC701

Method : Set to MW 1602kHz and adjust TC701 so that the test point becomes 2052kHz $\pm$ 0.01kHz.

2. MW VT Check

Settings : • Test point : TP1 (VT)

Method : Set to MW 1602kHz and check that the test point is 7.0V $\pm$ 1.0V.

3. MW Tracking Adjustment

Settings : • Test point : TP5,TP6
• Adjustment location : L981

Method : Set to MW 999kHz and adjust L981 so that the test point becomes maximum.

4. AM IF Adjustment

Settings : • Test point : TP5,TP6

L742 450kHz

5. LW VT Adjustment
Settings : • Test point : TP1 (VT)
• Adjustment location : L942
Method : Set to LW 144kHz and adjust L942 so that the test point becomes $1.50V \pm 0.05V$.
 6. LW Tracking Adjustment
Settings : • Test point : TP5,TP6
• Adjustment location :
L941144kHz
TC941 290kHz
Method : Set up TC941 to center before adjustment. The level at 144kHz is adjusted to MAX by L941. Then the level at 290kHz is adjusted to MAX by TC941.
 7. FM VT Adjustment
Settings : • Test point : TP1 (VT)
• Adjustment location : L807
Method : Set to FM 87.5MHz and adjust L807 so that the test point becomes $1.70V \pm 0.05V$.
 8. FM Tracking Adjustment
Settings : • Test point : TP5,TP6
TC801, TC802, TC803108MHz
L802, L804, L83187.5MHz
 9. DC Balance / MONO Distortion Adjustment
Settings : • Test point : TP3,TP4 (DC balance)
TP5,TP6 (Distortion)
• Adjustment location : L741
• Input level : 54dB
Method : Set to FM 98.0MHz and adjust L741 so that the voltage between TP3 and TP4 becomes $0V \pm 0.04V$.
Next, check that the distortion is less than 1.3%.
 10. Auto Stop Level Adjustment
FM
Settings : • Test point : TP7
• Adjustment location : SFR722
• Input level : 20dB
Method : Set to FM 98.0MHz and adjust voltage low (about 0.01V) by SFR722. After that voltage high (about 7.0V) out by 2dB down.

MW
Settings : • Test point : TP7
• Adjustment location : SFR771
• Input level : 50dB
Method : Set to MW 999kHz and adjust voltage low (about 0.01V) by SFR771. After that voltage high (about 7.0V) out by 2dB down.

< DECK SECTION >

 11. Tape Speed Adjustment
Settings : • Test tape : TTA-100
• Test point : TP5,TP6
• Adjustment location: SFR1
Method : Play back the test tape by DECK 2 and adjust SFR1 so that the frequency counter reads $3000Hz \pm 5Hz$.
 12. Head Azimuth Adjustment
Settings : • Test tape : TTA-310
• Test point : TP5,TP6
• Adjustment location : Head azimuth adjustment screw
Method : Play back the 10kHz signal of the test tape and adjust screw so that the output becomes maximum. Next, perform on each FWD PLAY and REV PLAY mode.
 13. PB Frequency Response Check (DECK – 1, DECK – 2)
Settings : • Test tape : TTA-310
• Test point : TP5,TP6
Method : Play back the 315Hz and 10kHz signals of the test tape and check that the output ratio of the 10kHz signal is with respect to that of the 315Hz signal is $\pm 2dB$.
 14. PB Sensitivity Adjustment
Settings : • Test tape : TTA-200
• Test point : TP5,TP6
• Adjustment location : SFR301 (DECK-1, Lch)
SFR302 (DECK-1, Rch)
SFR351 (DECK-2, Lch)
SFR352 (DECK-2, Rch)
Method : Play back the test tape and adjust SFRs so that the output level of the test point becomes 58mV.
 15. REC/PB Frequency Response Adjustment (DECK-2)
Settings : • Test tape : TTA-601
• Test point : TP5,TP6
• Input signal : 1kHz / 10kHz (LINE IN)
• Adjustment location : SFR451 (Lch)
SFR452 (Rch)
Method : Apply a 1kHz signal and REC mode. Then adjust OSC attenuator so that the level at the TP5,TP6 becomes 4.0mV. Record and play back the 1kHz and 10kHz signals and adjust SFRs so that the output the 10kHz signal becomes $1dB \pm 0.5dB$ with respect to that of the 1kHz signal.
 16. REC/PB Sensitivity Adjustment (DECK-2)
Settings : • Test tape : TTA-601
• Test point : TP5,TP6
• Input signal : 1kHz (LINE IN)
• Adjustment location : SFR401 (Lch)
SFR402 (Rch)
Method : Apply a 1kHz signal and REC mode. Then adjust OSC attenuator so that the level at the TP5,TP6 becomes 4.0mV. Record and play back the 1kHz signal and adjust SFRs so that the output becomes $4.0mV \pm 0.5dB$.

PRACTICAL SERVICE FIGURE

<TUNER SECTION>

<FM SECTION>

IHF Sensitivity: 4dB $\pm$ 6dB (87.5MHz)
 (THD 3%) 2dB $\pm$ 6dB (98.0MHz)
 2dB $\pm$ 6dB (108.0MHz)
 S/N 50dB Quieting sensitivity:
 30dB $\pm$ 5dB
 (87.5 / 98.0 / 108.0MHz)
 Signal to noise ratio: More than 64dB (98.0MHz)
 Distortion: Less than 1.2% (98.0MHz)
 Stereo separation: More than 25dB (98.0MHz)
 Intermediate frequency: 10.7MHz

<MW SECTION>

Sensitivity: 55dB $\pm$ 7dB (603kHz)
 (S/N 20dB) 53dB $\pm$ 6dB (999 kHz)
 53dB $\pm$ 6dB (1404kHz)
 Distortion: Less than 1.5% (999kHz)
 Stereo separation: More than 12dB (400Hz)
 Intermediate frequency: 450kHz

<LW SECTION>

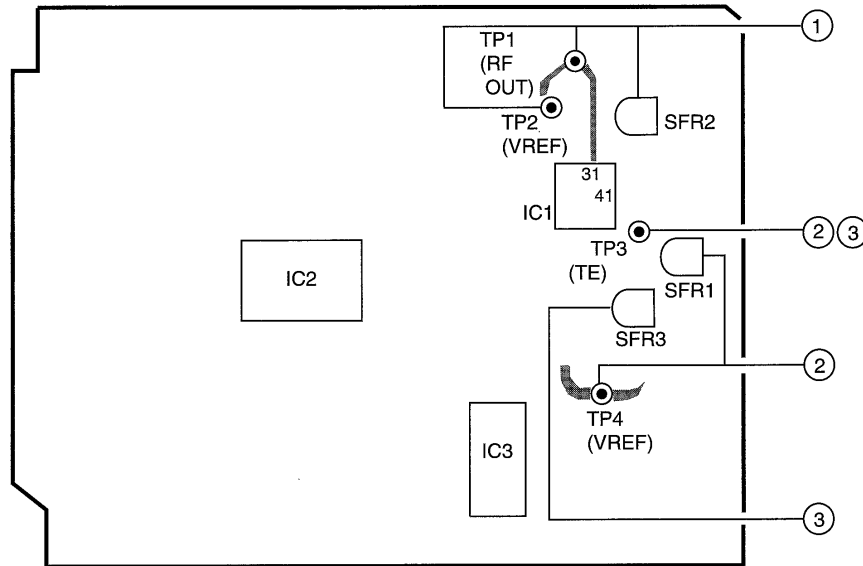
Sensitivity: 66dB $\pm$ 5dB (144kHz)
 (S/N 20dB) 63dB $\pm$ 5dB (198kHz)
 62dB $\pm$ 5dB (290kHz)
 Distortion: Less than 1.5% (198kHz)
 Intermediate frequency: 450kHz

<DECK SECTION>

Tape speed: 3000Hz $\pm$ 45Hz
 Wow & flutter: Less than 0.2% (W.R.M.S)
 Take-up torque: 30 ~ 55g-cm (FWD, REV)
 F.F torque: 75 ~ 170g-cm
 Rew torque: 75 ~ 170g-cm
 Back tension: 2 ~ 6g-cm (FWD, REV)
 PB Output level: 3.2V $\pm$ 1.5dB (SP OUT)
 REC/PB Output level: 2.0V $\pm$ 2.0dB (SP OUT)
 Distortion (REC/PB): Less than 2.0% (NORM, CrO2)
 Noise level(PB): Less than 100mV / 150mV
 (DOLBY B NR ON / OFF
 CrO2. Vol MAX.)
 Less than 130mV / 200mV
 (DOLBY B NR ON/OFF
 NORM. Vol MAX.)
 Noise level(REC/PB): Less than 13mV / 23mV
 (DOLBY B NR ON / OFF
 CrO2. SP OUT 2V)
 Less than 16mV / 35mV
 (DOLBY B NR ON / OFF
 NORM. SP OUT 2V)
 Crosstalk: More than 60dB (1kHz, 0VU)
 Channel separation: More than 40dB (1kHz, 0VU)
 Erasing ratio: More than 60dB (125Hz)
 REC bias frequency: 85kHz
 Test tape: NORMAL: TTA-601
 CrO2.: TTA-610

ADJUSTMENT – 2 <CD>

C CD C.B

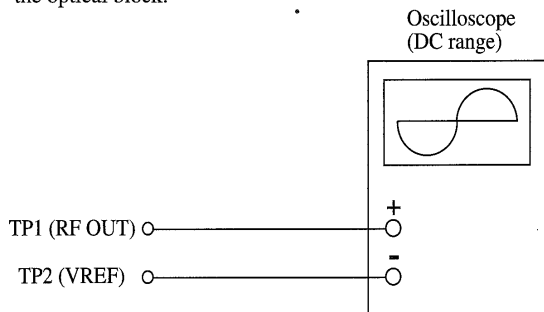


< CD SECTION >

Note: Connect a probe (10:1) of the frequency counter or the oscilloscope to a test point.

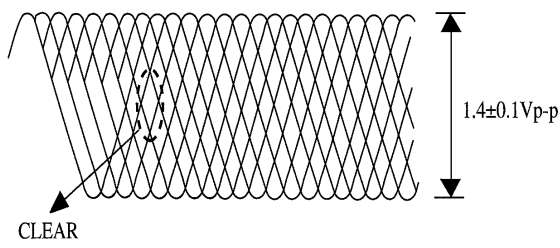
1. Focus Bias Adjustment

Make the focus bias adjustment when replacing and repairing the optical block.



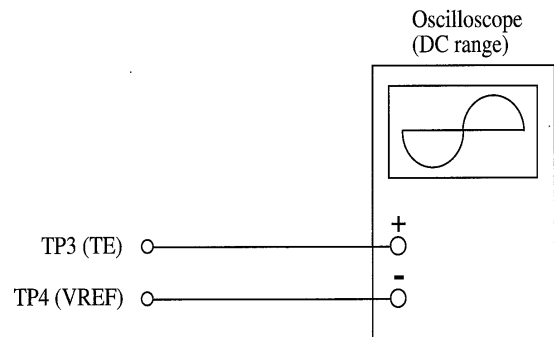
- 1) Connect an oscilloscope to the test points TP1 (RF OUT) and TP2 (VREF).
- 2) Turn on the power switch.
- 3) Insert test disc TCD-782 (YEDS-18) and play back the second composition.
- 4) Adjust SFR2 so that the level of RF wave to be maximum and clear.

RF signal waveform

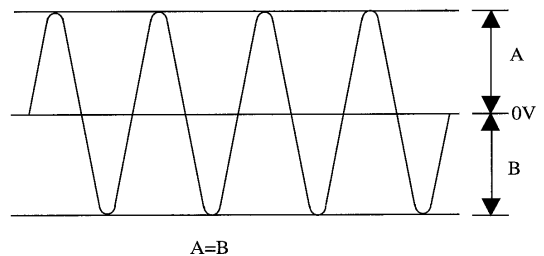


VOLT / DIV: 0.5V
TIME / DIV: 0.5 μ s

2. Tracking Balance Adjustment



- 1) Connect an oscilloscope to the test points TP3 (TE) and TP4 (VREF).
- 2) Turn on the power switch.
- 3) Insert test disc TCD-782 (YEDS-18) and play back the second composition.
- 4) Connect the intermediate point of SFR3 to TP4 (VREF).
- 5) Adjust SFR1 so that the waveform on the oscilloscope is vertically symmetrical as figure shown in the figure below.
- 6) Remove the connected wire.



VOLT / DIV: 200mV
TIME / DIV: 1mS

3. Tracking Gain Adjustment

A servo analyzer is necessary in order to perform this adjustment exactly. However, this gain has a margin, so even if it is slightly off, there is no problem. Therefore, do not perform this adjustment. Focus / tracking gain determines the pick-up follow-up (vertical and horizontal) relative to mechanical noise and mechanical shock when 2-axis device operates. However, as these reciprocate, the adjustment is at the point where both are satisfied.

- When gain is raised, the noise increases when the 2-axis device operates.
- When gain is lowered, it is more susceptible to mechanical shock and skipping occurs more easily.

When gain adjustment is off, the symptoms below appear.

Symptoms \ Gain	(Focus)	Tracking
•The time until music starts becomes longer for STOP PLAY or automatic selection (⏮ ⏭ buttons pressed.) (Normally takes about 2 seconds.)	low	low or high
•Music does not start and disc continues to rotate for STOP PLAY or automatic selection (⏮ ⏭ buttons pressed.)	—	low
•Disc stops to rotate shortly after STOP → PLAY.	low or high	—
•Sound is interrupted during PLAY, or time counter display stops.	—	low
•More noises during the 2-axis device operation.	high	high

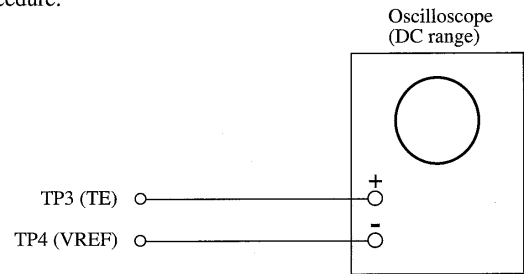
The following is simple adjustment method.

= Simple adjustment =

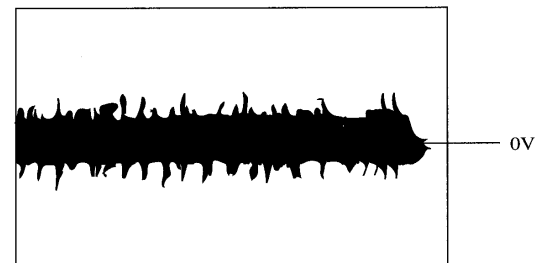
Note: Since exact adjustment cannot be performed, remember the positions of the controls before the performing the adjustment.

If the positions after the simple adjustment are only a little different, return the controls to the original position.

Procedure:



- 1) Keep the set horizontal. (If the set is not kept horizontally, this adjustment cannot be performed due to the gravity against the 2-axis device.)
- 2) Inset test disc TCD-782 and play back the second composition.
- 3) Connect an oscilloscope to TP3 (TE) of the CD C.B.
- 4) Adjust SFR3 so that the waveform appears as shown in the figure below.(tracking gain adjustment)

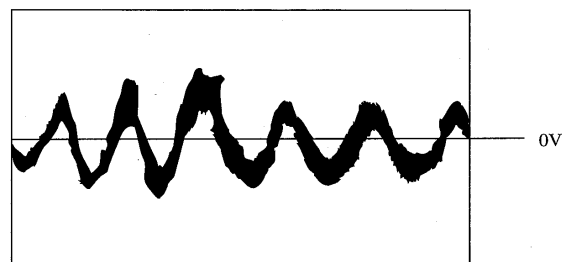


VOLT / DIV: 5mV
TIME / DIV: 1mS

• Incorrect example

Low tracking gain

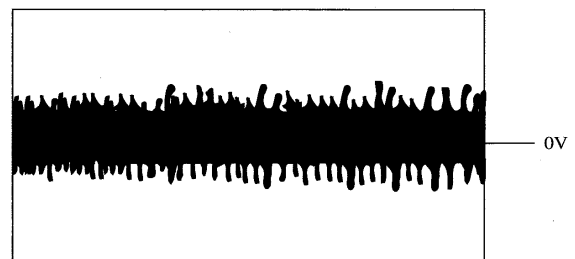
(The fundamental wave appears as compared with the waveform adjusted)



VOLT / DIV: 5mV
TIME / DIV: 1mS

High tracking gain

(The frequency of the fundamental wave is higher than in low gain)



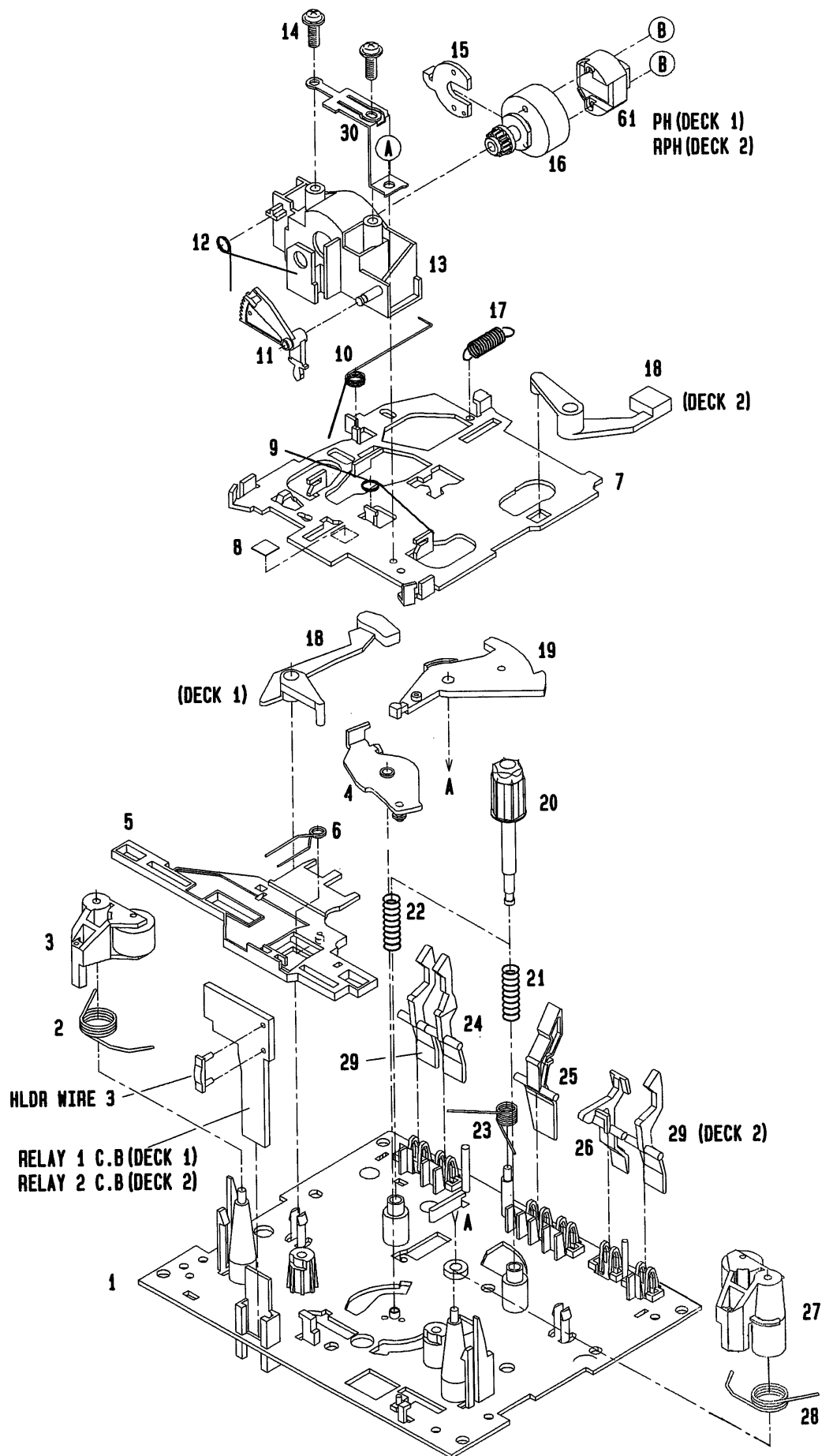
VOLT / DIV: 5mV
TIME / DIV: 1mS

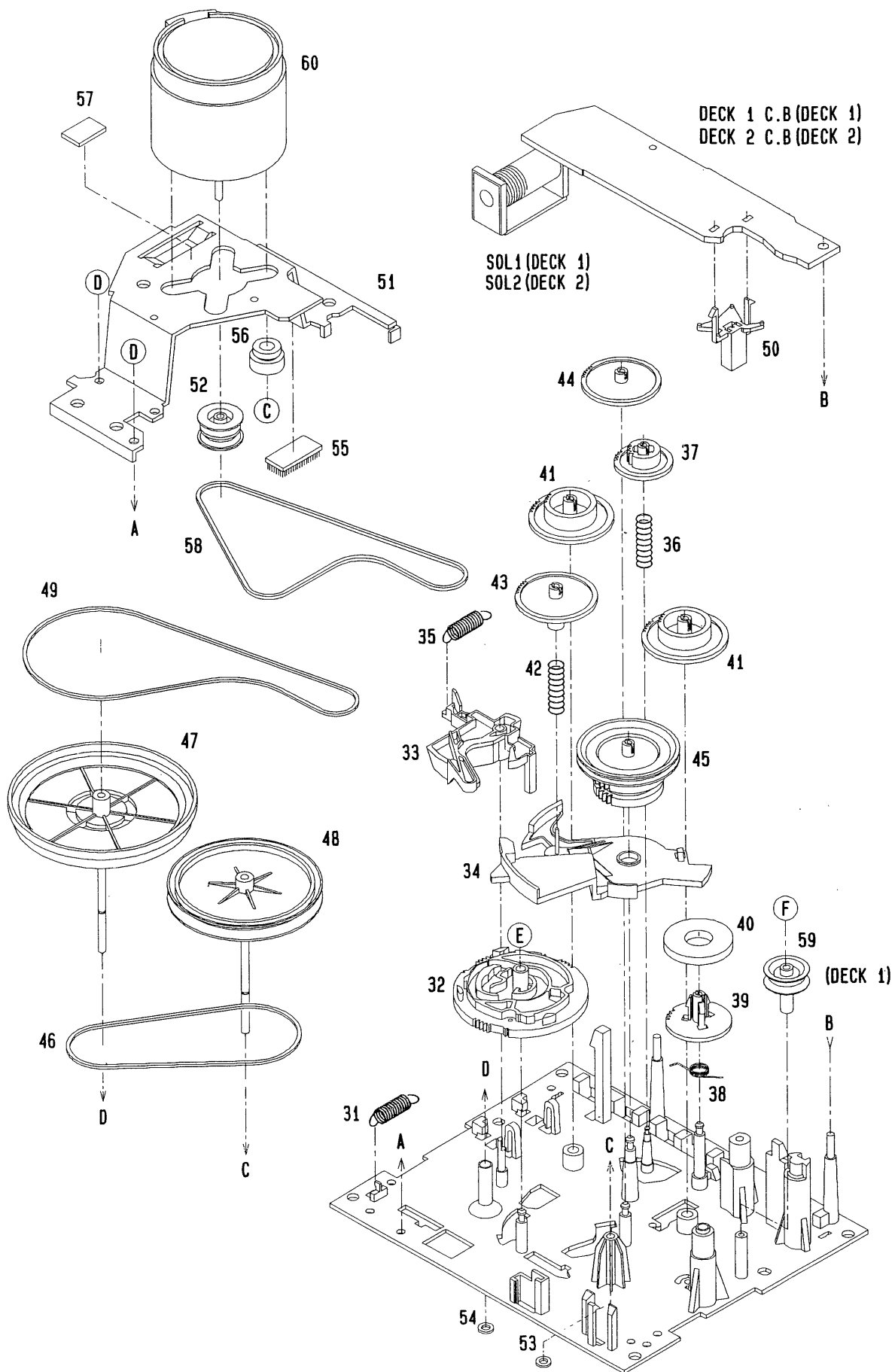
MECHANICAL PARTS LIST 1/1

If can't understand for Description please kindly refer to "REFERENCE NAME LIST".

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION	REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
1	83-NEG-218-019		SPR T EJECT L	23	83-NEG-022-019		KEY, OPEN
2	83-NEG-219-019		SPR T EJECT R	24	83-NEG-020-019		KNOB, MIC
3	83-NEG-019-019		BOX, CASS RD	25	83-NEG-031-019		KEY, VF H
4	83-NEG-068-019		WINDOW, CASS R	26	87-063-165-019		OIL-DMPR 150
5	83-NEG-061-019		WINDOW, DISPLAY	27	83-NEG-080-019		IND, VOL
6	82-NEG-067-019		BADGE, AIWA 30N	28	83-NEG-053-019		KNOB, VOL
7	83-NEG-003-019		CAB FR E	29	83-NEG-067-019		WINDOW, CASS, L
8	83-NEG-029-019		KEY, POWER	30	83-NEG-020-019		BOX, CASS LD
9	83-NEG-052-019		IND, FN	31	81-532-080-019		LBL, CASS COMPT
10	83-NEG-618-019		GUIDE, PLAY	32	83-NEG-046-019		KEY, DSP ASSY
11	83-NEG-006-019		PANEL, CD	A	87-571-032-419		VIT+2-3
12	83-NEG-213-019		HLDR, CD FR	B	87-067-703-019		BVT2+3-10 W/O SLOT
13	82-NF5-036-118		CAB, STEEL	C	87-067-579-019		BVT2+3-8 W/O SLOT
14	83-NEG-016-019		PANEL REAR EEBNE<EE>	D	87-067-698-019		BVT2+3-18
14	83-NEG-011-019		PANEL REAR EZBNE<EZ, EEZ>	E	87-591-094-419		QIT+3-6 GOLD
14	83-NEG-010-019		PANEL REAR KBNE<K>	F	87-067-688-019		BVT2+3-6
△ 15	87-050-016-018		AC CORD ASSY, E<EXCEPT K>	G	87-067-716-019		BVTT+3-6 BLK
△ 15	87-050-029-018		AC CORD ASSY, K<K>	H	87-067-585-019		BVTT+4-6
△ 16	87-085-185-010		BUSHING, AC CORD	I	87-067-641-019		UTT2+3-8 W/O SLOT BLK
17	87-085-221-019		FOOT, H13.5				
18	82-NF5-226-019		HLDR, LOCK 1N				
19	82-NF5-228-019		SPR-C, LOCK				
20	82-NF5-229-019		PLATE, LOCK				
21	82-NF5-227-019		HLDR, LOCK 2N				
22	83-NEG-032-019		KEY PLAY				

TAPE MECHANISM EXPLODED VIEW 1/1



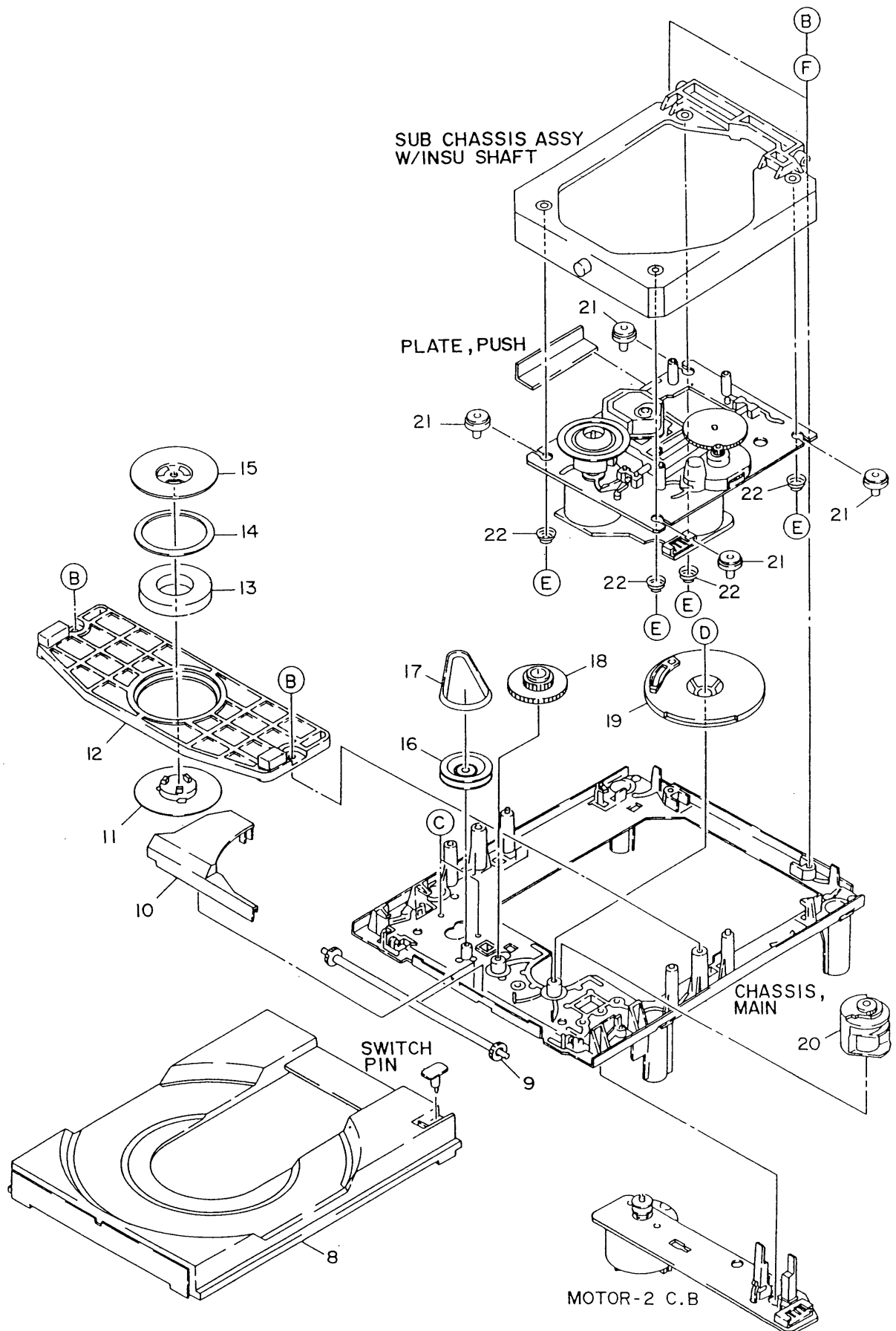


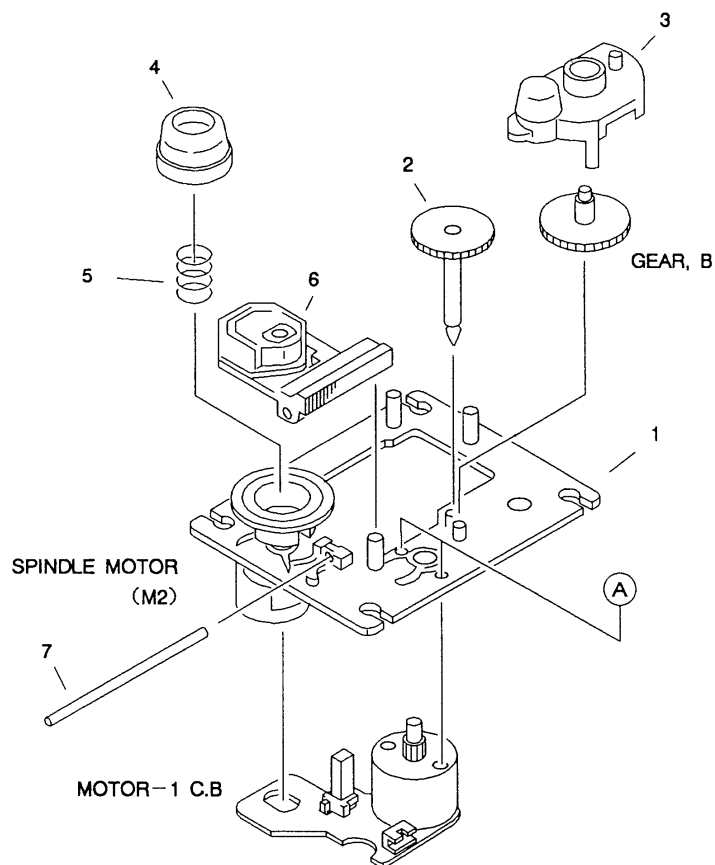
TAPE MECHANISM PARTS LIST 1/1

If can't understand for Description please kindly refer to "REFERENCE NAME LIST".

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION	REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
1	82-ZM3-214-110		CHAS ASSY,P (DECK 1)	34	82-ZM1-224-110		LVR,FR
1	82-ZM1-299-010		CHAS ASSY,R (DECK 2)	35	82-ZM1-305-010		SPR-E,TRIG 2
2	82-ZM1-258-010		SPR-T,PINCH L	36	82-ZM1-277-010		SPR-C,PLAY
3	82-ZM1-248-110		LVR ASSY,PINCH L	37	82-ZM1-223-010		GEAR,PLAY
4	82-ZM1-295-210		PLATE ASSY,LINK	38	82-ZM1-256-110		SPR-T,FR
5	82-ZM1-266-010		LVR,DIR	39	82-ZM1-220-210		GEAR,IDLER
6	82-ZM1-214-010		SPR-T,DIR	40	80-ZM6-217-010		RING MAGNET 2
7	82-ZM1-206-210		CHAS,HEAD	41	82-ZM1-216-210		GEAR,REEL
8	87-078-014-010		SH,5-5-0.05	42	82-ZM1-276-010		SPR-C,FR
9	82-ZM1-269-010		SPR-T,BRG	43	82-ZM1-225-010		GEAR,FR
10	82-ZM1-219-010		SPR-T,LINK	44	82-ZM1-226-010		GEAR,REW
11	82-ZM1-210-010		GEAR,H T	45	82-ZM1-228-210		SLIP DISK ASSY
12	82-ZM1-213-010		SPR-T,HEAD	46	82-ZM1-261-110		BELT,FR
13	82-ZM1-207-010		GUIDE,TAPE	47	82-ZM1-237-210		FLY-WHL ASSY,R (DECK 2)
14	82-ZM1-283-210		S-SCREW,AZIMUTH	47	82-ZM3-209-110		FLY-WHL ASSY,R2 (DECK 1)
15	82-ZM1-209-010		PLATE,HEAD	48	82-ZM1-234-110		FLY-WHL ASSY,L (DECK 2)
16	82-ZM1-208-010		HLDR,HEAD	48	82-ZM3-207-210		FLY-WHL ASSY,L2 (DECK 1)
17	82-ZM1-218-010		SPR-E,HB	49	82-ZM3-206-010		BELT,R
18	82-ZM1-263-110		LVR,EJECT L (DECK 1)	50	82-ZM1-245-210		HLDR,IC
18	82-ZM1-264-010		LVR,EJECT R (DECK 2)	51	82-ZM3-201-010		HLDR,MC
19	82-ZM1-222-010		LVR,PLAY	52	82-ZM3-202-010		PULLEY,MOT 2M
20	82-ZM1-217-110		REEL TABLE	53	82-ZM1-288-010		SH,1.63-3.2-0.5 SLT
21	82-ZM1-244-110		SPR-C,BT	54	80-ZM6-243-010		SH,1.75-3.6-0.5 SLT
22	82-ZM1-285-110		SPR-C,BT L	55	80-ZM6-230-010		SH,BELT
23	82-ZM1-257-010		SPR-T,CAS	56	86-575-242-010		CUSH-G,DIA3.7-9-3.2
24	82-ZM1-241-110		LVR,MC	57	86-575-361-010		CUSH-G,6-8-0.8
25	82-ZM1-242-010		LVR,CAS	58	82-ZM3-205-010		BELT,L
26	82-ZM1-243-010		LVR,STOP	59	82-ZM3-204-010		PULLEY,COUPLER (DECK 1)
27	82-ZM1-253-110		LVR ASSY,PINCH R	60	87-045-347-010		MOT,SHU2L 70(M1)
28	82-ZM1-259-010		SPR-T,PINCH R	61	87-046-398-010		HEAD,PH YK50P-BS409 (PH)
29	82-ZM1-240-110		LVR,REC (DECK 2)	61	87-046-399-010		HEAD,RPH YK56R-BS409 (RPH)
30	82-ZM1-298-010		SPR-P,EARTH	A	87-585-036-410		UIT+2-8
31	82-ZM1-255-110		SPR-E,LVR DIR	B	80-ZM6-207-010		V+1.6-7
32	82-ZM1-221-110		GEAR,CAM	C	82-ZM1-309-010		S-SCRW,MOTOR
33	82-ZM1-227-110		LVR,TRIG	D	87-067-178-010		VTT+2.6-3
				E	87-067-932-010		PW,2.15-6.8-0.5 SLT
				F	87-067-972-010		PW,1.05-3-0.25 SLT

CD MECHANISM EXPLODED VIEW 1/1



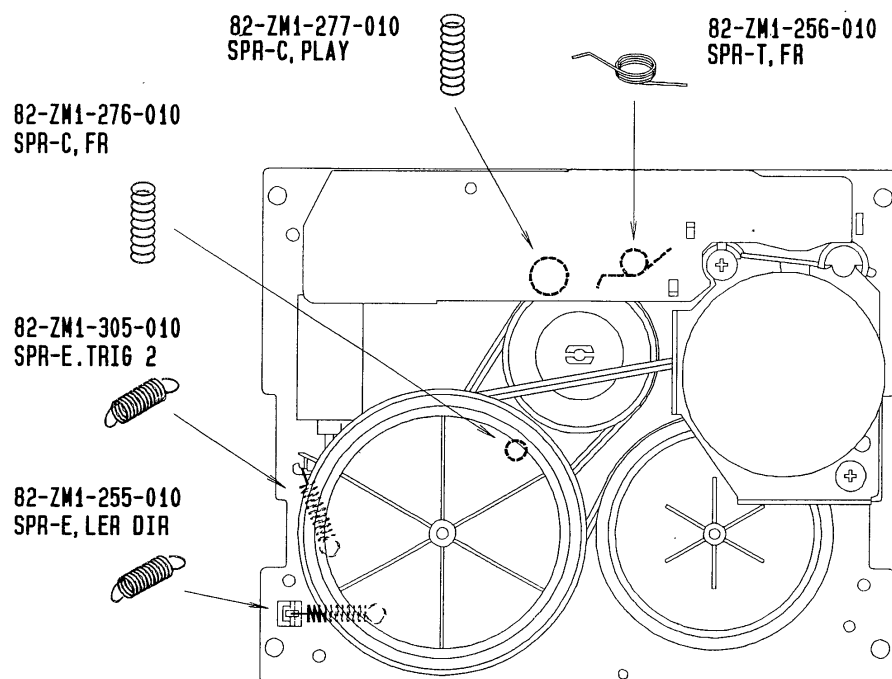
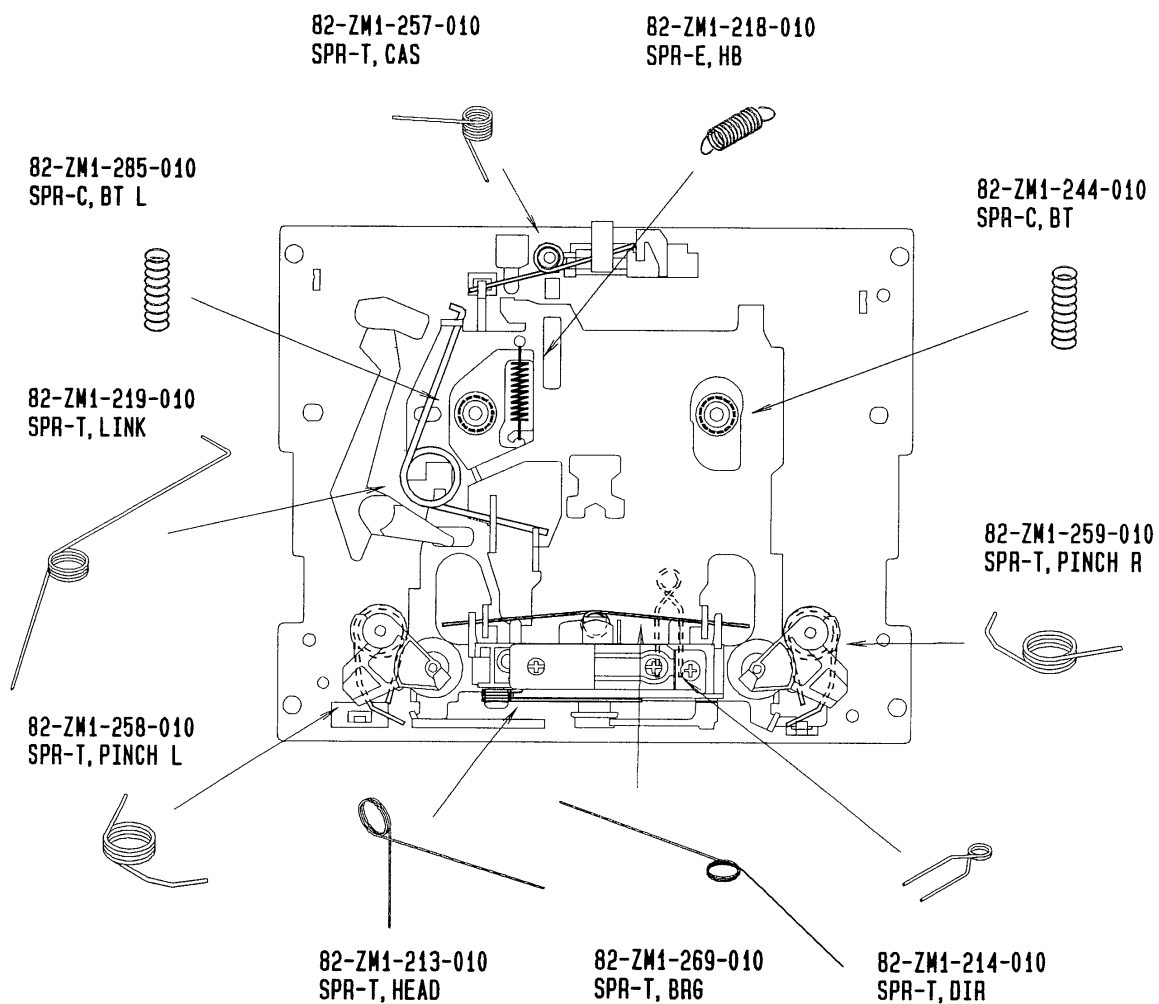


CD MECHANISM PARTS LIST 1/1

If can't understand for Description please kindly refer to "REFERENCE NAME LIST".

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION	REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
1	9X-262-513-310		T.T CHASS ASSY W/MOTOR	16	92-625-276-010		PULLY LOUDING
2	92-625-188-020		GEAR(A)	17	93-653-387-000		LM BELT
3	92-625-544-010		COVER	18	92-625-274-010		GEAR MEDDLE
4	92-625-187-010		RING CENTER	19	92-625-285-030		DRIVE GEAR
5	92-625-191-010		SPRING COMPRESSION	20	92-625-283-020		CONTROL CAM
6	98-848-127-110		OPTICAL PICK UP KSS-210A	21	92-625-278-010		INSULATOR
7	94-917-565-010		SHAFT SLED	22	92-625-280-010		SPRING
8	92-625-288-010		TRAY	A	87-261-032-210		V+2-3
9	92-625-275-030		GEAR TRAY	B	87-761-074-410		VFT2 2.6-8
10	92-625-282-020		GEAR COVER	C	92-625-279-010		U+2.6-2.5
11	92-625-286-030		CHACKING PULLY	D	87-761-079-410		VFT2 2.6-16
12	92-625-284-010		CHACKING PLATE	E	92-644-410-020		SCREW SWCH16A
13	91-452-493-210		MAGNET	F	93-464-123-000		WASHER
14	92-625-541-010		DAMPER				
15	92-625-277-010		YOKE CHUCK				

SPRING APPLICATION POSITION



SPEAKER PARTS LIST

If can't understand for Description please kindly refer to "REFERENCE NAME LIST".

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
1	83-NS8-021-010		PANEL FR
2	83-NS5-013-010		ADAPTOR ASSY
3	83-NS8-024-010		SPEAKER GRILL
4	83-NS8-602-010		SPEAKER WOOFER
5	83-NS8-606-010		SPEAKER MID
6	83-NS8-608-010		SPEAKER
7	83-NS8-025-010		GRILL FRAME ASSY
8	83-NS5-611-010		SPEAKER CORD Y/B
9	83-NS5-612-010		TERMINAL Y/B
10	83-NS5-613-010		SPEAKER CORD ASSY

ACCESSORIES/PACKAGE LIST

If can't understand for Description please kindly refer to "REFERENCE NAME LIST".

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
1	83-NEK-701-019		RC-TN430 EX
2	87-043-106-019		FM, WIRE ANT(2)
3	87-006-268-019		AM LOOP ANT NC(UN)
4	83-NEK-902-019		IB, ESF-(G)
5	83-NEK-903-019		IB, EGI-(G)<E,E2>

REFERENCE NAME LIST

ELECTRICAL SECTION

DESCRIPTION	REFERENCE NAME
ANT	ANTENNAS
C-	CHIP
C-CAP	CAP, CHIP
C-CAP TN	CAP, CHIP TANTALUM
C-COIL	COIL, CHIP
C-DI	DIODE, CHIP
C-DIODE	DIODE, CHIP
C-FET	FET, CHIP
C-FOTR	FILTER, CHIP
C-JACK	JACK, CHIP
C-LED	LED, CHIP
C-RES	RES, CHIP
C-SFR	SFR, CHIP
C-SLIDE SW	SLIDE SWITCH, CHIP
C-SW	SWITCH, CHIP
C-TR	TRANSISTOR, CHIP
C-VR	VOLUME, CHIP
C-ZENER	ZENER, CHIP
CAP, CER	CAP, CERA-SOL
CAP, E	CAP, ELECT
CAP, M/F	CAP, FILM
CAP, TC	CAP, CERA-SOL
CAP, TC-U	CAP, CERA-SOL SS
CAP, TN	CAP, TANTALUM
CERA FIL	FILTER, CERAMIC
CF	FILTER, CERAMIC
DL	DELAY LINE
E/CAP	CAP, ELECT
FILT	FILTER
FLTR	FILTER
FUSE RES	RES, FUSE
MOT	MOTOR
P-DIODE	PHOTO DIODE
P-SNSR	PHOTO SENSER
P-TR	PHOTO TRANSISTOR
POLY VARI	VARIABLE CAPACITOR
PPCAP	CAP, PP
PT	POWER TRANSFORMER
PTR, RES	PTR, MELF
RC	REMOTE CONTROLLER
RES NF	RES, NON-FLAMMABLE
RESO	RESONATOR
SHLD	SHIELD
SOL	SOLENOID
SPKR	SPEAKER
SW, LVR	SWITCH, LEVER
SW, RTRY	SWITCH, ROTARY
SW, SL	SWITCH, SLIDE
TC CAP	CAP, SERA-SOL
THMS	THERMISTOR
TR	TRANSISTOR
TRIMMER	CAP, TRIMMER
TUN-CAP	VARIABLE CAPACITOR
VIB, CER	RESONATOR, CERAMIC
VIB, XTAL	RESONATOR, CRYSTAL
VR	VOLUME
ZENER	DIODE, ZENER

MECHANICAL SECTION

DESCRIPTION	REFERENCE NAME
ADHESHIVE	SHEET ADHESHIVE
AZ	AZIMUTH
BAR-ANT	BAR-ANTENNA
BAT	BATTERY
BATT	BATTERY
BRG	BEARING
BTN	BUTTON
CAB	CABINET
CASS	CASSETTE
CHAS	CHASSIS
CLR	COLLAR
CONT	CONTROL
CRSR	CURSOR
CU	CUSHION
CUSH	CUSHION
DIR	DIRECTION
DUBB	DUBBING
FL	FRONT LOADING
FLY-WHL	FLYWHEEL
FR	FRONT
FUN	FUNCTION
G-CU	G-CUSHION
HDL	HANDOL
HIMERON	CLOTH
HINGE, BAT	HINGE, BATTERY
HLDR	HOLDER
HT-SINK	HEAT SINK
IB	INSTRUCTION BOOKLET
IDLE	IDLER
IND, L-R	INDICATOR, L-R
KEY, CONT	KEY, CONTROL
KEY, PRGM	KEY, PROGRAM
KNOB, SL	KNOB, SLIDE
LBL	LABEL
LID, BATT	LID, BATTERY
LID, CASS	LID, CASSETTE
LVR	LEVER
P-SP	P-SPRING
PANEL, CONT	PANEL, CONTROL
PANEL, FR	PANEL, FRONT
PRGM	PROGRAM
PULLY, LOAD MO	PULLY, LOAD MOTOR
RBN	RIBBON
S-	SPECIAL
SEG	SEGMENT
SH	SHEET
SHLD-SH	SHIELD-SHEET
SL	SLIDE
SP	SPRING
SP-SCREW	SPECIAL-SCREW
SPACER, BAT	SPACER, BATTERY
SPR	SPRING
SPR-P	P-SPRING
SPR-PC-PUSH	P-SPRING, C-PUSH
T-SP	T-SPRING
TERM	TERMINAL
TRIG	TRIGGER
TUN	TUNING
VOL	VOLUME
W	WASHER
WHL	WHEEL
WORM-WHL	WORM-WHEEL

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