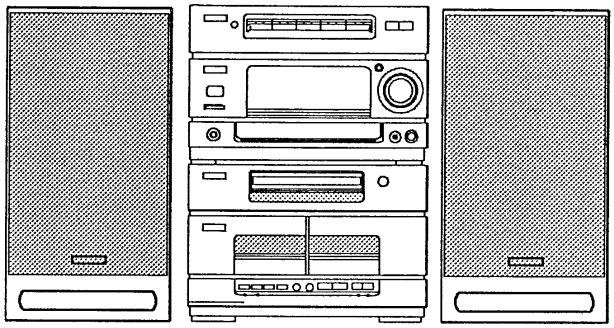
S/M Code No.0054 DATE OF ISSUE 6/1992 - T

aiwa

NSX-D55

SERVICE MANUAL



COMPACT DISC STEREO SYSTEM

- BASIC TAPE MECHANISM : 1ZM - 7
- BASIC CD MECHANISM : KSL - 2101ABM
- TYPE. HE, LH, U, E, K, Z

SYSTEM	AMPLIFIER/ TUNER	CASSETTE DECK/ CD PLAYER	REMOTE CONTROLLER	SPEAKER
NSX - D55 (TYPE. HE, LH, E, K, Z)	RX - N55	FD - N55	RC - TX55	SX - N55
NSX - D55 (TYPE. U)	CUD - DN55		RC - TX55	SX - N55
	RX - N55	FD - N55		

AIWA CO.,LTD.

Tokyo Japan

Printed in Japan

TABLE OF CONTENTS

SPECIFICATIONS

STEREO RECEIVER RX-N55

<FM section>

Frequency range : 87.5 MHz to 108 MHz
Usable sensitivity (IHF) : 2.2 μV (75 ohms) 18.2 dBf
Signal-to-noise ratio : HE, LH, U, E, K models
70 dB (STEREO), 78 dB (MONO)
Z model
64 dB (STEREO), 72 dB (MONO)
Harmonic distortion : 0.3% (MONO), 1 kHz
0.8% (STEREO), 1 kHz
Frequency response : 20 Hz to 15 kHz
(+0.5 dB, −3 dB)
Stereo separation : HE, LH, U, models
40 dB at 1 kHz
E, K, Z models
30 dB at 1 kHz
Antennas : 75 ohms (unbalanced)

<AM (MW) section>

Frequency range : HE model
531 (530) kHz to 1,602 (1,710) kHz
LH model
530 (531) kHz to 1,710 (1,602) kHz
U model
530 kHz to 1,710 kHz
E, K, Z models
531 kHz to 1,602 kHz
Usable sensitivity : 400 μV/m
Selectivity : 22 dB (9 kHz)
Signal-to-ratio : 53 dB (100 dB input)
Antennas : Loop antenna

<LW section> (E, K, Z ONLY)

Frequency range : 144 kHz to 290 kHz
Selectivity : 1,000 μV/m
Antennas : Loop antenna
Signal-to-noise ratio : 47 dB (106 dB input)

<Timer section>

Program timer : "Once" or "every"
Sleep timer : Capable of setting in 10-minute increments, 99 minutes maximum

<Amplifier section>

Power output : HE, LH models
50 W + 50 W (6 ohms, T.H.D. 10% 1 kHz)
U model
55 W + 55 W (6 ohms, T.H.D. 10% 1 kHz)
FTC RULE (U model only)
50 watte per channel, Min. RMS at 6 ohms, from 65 Hz to 15 kHz, with no more than 1% Total Harmonic Distortion
E, Z models
35 W + 35 W (6 ohms, T.H.D. 1% 1 kHz)
K model
45 W + 45 W (6 ohms, T.H.D. 1% 1 kHz)
35 W + 35 W (6 ohms, T.H.D. 1% 1 kHz)
Harmonic distortion : 0.05% (30 W, 1 kHz, 6 ohms)
Input terminal (load impedance) :
DAT/VIDEO1 : 300 mV (47 k ohms)
AUX/VIDEO2 : 400 mV (25 k ohms)
Signal-to-noise ratio : 84 dB

<General>

Power requirements : HE, LH models
120/220/240 V
AC switchable, 50/60 Hz
E, Z models
AC 220 V, 50 Hz
K model
AC 240 V, 50 Hz
Power consumption : HE, LH models
110 W (System total 125 W)
U model
120 W (System total 135 W)
E, K, Z models
230 W (System total 245 W)
Dimensions (W × H × D) :
260 × 169 × 323.5 mm
(10 1/4 × 6 3/4 × 12 3/4 in)
Weight : HE, LH models
5.7 kg (12.5 lbs.)
U model
5.9 kg (13 lbs)
E, K, Z models
5.6 kg (12.3 lbs.)

COMPACT DISC / STEREO CASSETTE DECK FD-N55

<Cassette deck section>

Track format : 4 tracks, 2channels
Frequency response : METAL tape : 20-17,000 Hz
CrO_2 TAPE : 20-16,000 Hz
Normal tape : 20-15,000 Hz
Signal-to-noise ratio : HE, LH models
65 dB (DOLBY NR ON, METAL tape peak level ablove 5 kHz)
U, E, K, Z models
73 dB (DOLBY C NR ON, METAL tape peak level ablove 5 kHz)
Wow and flutter : 0.16% (WRMS)
Tape speed : 4.8 cm/sec.(1 7/8 ips)
9.5 cm/sec.(double speed)
Rewind time : 120 sec.(C-60)
Fast forward time : 120 sec.(C-60)
Recording system : AC bias
Erase system : AC erase
Motor : DC servomotor
Heads : Playback head × 1 (deck 1)
Record/playback/erase head × 1 (deck 2)

<CD player section>

Disc : Compact disc
Scanning method : Non contact optical scanner (semiconductor laser application)
Laser : Semiconductor laser (λ = 780 mm)
Rotation speed : Approx. 500 rpm-200 rpm (CLV)
Approx. 1,000 rpm-400 rpm (CLV, double speed, except U, K models)
Error correction : Cross Interleave, Reed Solomon code
No. of channel : 2 channels
D-A conversion : 16-bit linear
Wow and flutter : Unmeasurable
Signal-to-noise ratio : 90 dB (1 kHz, 0 dB)
Harmonic distortion : 0.05% (1 kHz, 0 dB)
Low pass filter : 8 times digital filter + active filter
Dimensions (W × H × D) :
260 × 169 × 323.5 mm
Weight : 4 kg (8.8 lbs.)

SPEAKER SX-N55

Cabinet type : 3 way, bass reflex
Speaker : 130 mm (5 1/8 in) cone type woofer
60 mm (2 3/8 in) cone type tweeter
30 mm (1 3/16 in) ceramic type super tweeter
Impedance : 6 ohm
Music power : 70 W
Output sound pressure level :
87 dB/W/m
Dimensions (W × H × D) :
210 × 338 × 237 mm
(8 3/8 × 13 3/8 × 9 3/8 in)
Weight : 3.4 kg (7.5 lbs.)

<COMMON SECTION>

Dimensions (W × H × D) :
680 × 338 × 323.5 mm
(26 7/8 × 13 3/8 × 12 3/4 in)
(vertical placement)
HE, LH models
940 × 159 × 3235 mm
(37 1/8 × 6 3/4 × 12 3/4 in)
U, E, K, Z models
940 × 210 × 3235 mm
(37 1/8 × 8 3/8 × 12 3/4 in)
(horizontal placement)
Weight : H, LH models
16.5 kg (36.3 lbs.)
U model
16.7 kg (36.7 lbs.)
E, K, Z models
16.4 kg (36.1 lbs.)

- 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.

■ ACCESSORIES/PACKAGE LIST

PART NO. CHANGED TO	REF. NO.	PART NO.	DESCRIPTION	COMMON MODEL	Q,TY
	1	★81-MT3-901-019	INSTRUCTION BOOKLET, S<E, S, C> (HE, LH)	※	1
	2	★81-MT3-902-019	INSTRUCTION BOOKLET, U<S> (U)	※	1
	3	★81-MT3-903-018	INSTRUCTION BOOKLET, E<E, S, C> (E)	※	1
	4	★81-MT3-904-018	INSTRUCTION BOOKLET, E<D, F, I> (E, Z)	※	1
	5	★81-MT3-905-018	INSTRUCTION BOOKLET, K (K)	※	1
	6	★81-MT3-682-019	REMOTE CONTROLLER, RC-TN55F (HE, LH, U)	※	1
	7	★81-MT3-684-018	REMOTE CONTROLLER, RC-TN55L (E, K, Z)	※	1
	8	★81-MT3-685-019	REMOTE CONTROLLER, RC-TN55F GOLD (HE)	※	1
	9	★81-MT3-686-019	REMOTE CONTROLLER, RC-TN55L GOLD (E, K, Z)	※	1
	10	★81-MX4-659-019	AM LOOP ANT NC2 (HE, LH, U, Z)		1
	11	★81-MX4-660-010	AM LOOP ANT CON2 (E, K)		1
	12	★81-748-632-019	FEEDER, ANT FMN (HE, LH, U)		1
	13	★81-748-632-018	FEEDER, ANT FMN (E, K)		1
	14	★87-032-845-019	PLUG, CONVERSION (LH)		1
	15	★87-042-062-010	PLUG, ADAPTOR S-I6115 (HE)		1
	16	★87-043-106-010	FM, WIRE ANT<Z> (Z)		1

MODEL NO.

RX – N55

ELECTRICAL MAIN PARTS LIST

REF. NO.	PART NO.	DESCRIPTION
===IC===		
	87-001-632-019	IC, BA10393N
	87-002-637-019	IC, BU4051B
	87-002-247-019	IC, BU4052B
	87-002-444-019	IC, BU4094B
	87-001-347-019	IC, HD14051BP
	87-001-942-019	IC, LA1265G
	87-001-530-019	IC, LA3607
	87-001-376-019	IC, LC7218
	81-MT3-651-010	IC, LC866012A-5181
	87-002-239-010	IC, LM3364-15
	87-002-241-010	IC, M50195P
	87-027-895-019	IC, M5218AL
	87-002-429-010	IC, NJU7305L
	87-002-727-019	IC, NJM4558L
	87-001-790-010	IC, SBX1610-52(REMOTE SENSOR)
	87-001-582-019	IC, STK4152-2(E, K, Z)
	87-020-982-019	IC, STK4162-2(HE, LH, U)
	87-020-446-019	IC, TA7343AP
	87-027-938-019	IC, TC4053BP
	87-001-869-010	IC, XR1091
	87-001-883-010	IC, XRC5424BP
===TRANSISTOR===		
	89-502-094-019	FET, 2SK209Y
	89-502-115-010	FET, 2SK211GR
	89-502-466-019	FET, 2SK246BL
	89-503-025-010	FET, 2SK302GR
	89-113-187-019	TRANSISTOR, 2SA1318TU
	87-026-463-019	TRANSISTOR, 2SA933S(RS)
	89-213-302-019	TRANSISTOR, 2SB1330Q
	89-333-317-019	TRANSISTOR, 2SC3331TU
	87-026-462-019	TRANSISTOR, 2SC1740S(RS)
	89-318-155-019	TRANSISTOR, 2SC1815GR
	89-327-125-019	TRANSISTOR, 2SC2712GR
	89-327-143-019	TRANSISTOR, 2SC2714(O)
	89-332-665-019	TRANSISTOR, 2SC3266GR
	89-333-266-019	TRANSISTOR, 2SC3326B
	89-420-052-019	TRANSISTOR, 2SD2005Q
	89-406-555-019	TRANSISTOR, 2SD655E
	87-026-230-019	TRANSISTOR, DTA114YK
	87-026-214-019	TRANSISTOR, DTA114YS
	87-026-219-019	TRANSISTOR, DTA144ES
	87-026-245-019	TRANSISTOR, DTC114ES
	87-026-215-019	TRANSISTOR, DTC114YS
	87-026-217-019	TRANSISTOR, DTC124ES
===DIODE===		
	87-020-691-019	DIODE, 1SS132
	87-020-125-019	DIODE, 1SS181
	87-020-027-019	DIODE, 1SS184
	87-002-225-019	DIODE, DBF40C-K10
	87-002-726-010	DIODE, DSF10TC FMG
	87-002-608-019	DIODE, DSF10TC
	87-001-820-019	DIODE, GP15B(F)
	87-002-822-019	DIODE, ZENER MTZJ2.2A
	87-001-916-019	DIODE, ZENER UTZJ10B
	87-001-911-019	DIODE, ZENER UTZJ4.7A
	87-001-915-019	DIODE, ZENER UTZJ6.8A
	87-001-915-019	DIODE, ZENER UTZJ6.8A
	87-027-675-019	DIODE, ZENER HZ33-3L
	87-027-555-019	DIODE, ZENER HZ5C2
	87-027-332-019	DIODE, ZENER HZ6B1L
	87-027-399-019	DIODE, ZENER HZ7A3L
===TUNER CIRCUIT BOARD SECTION===		
AP1	★81-MT3-655-010	AM PACK 1, S(HE, LH, U)
C1	★87-010-312-019	CAP, CHIP S 15P-50 CH
C2	★87-010-197-019	CAP, CHIP S 0.01-25 B
C3	★87-010-197-019	CAP, CHIP S 0.01-25 B
C4	★87-010-197-019	CAP, CHIP S 0.01-25 B
C5	★87-010-197-019	CAP, CHIP S 0.01-25 B
C6	★87-010-197-019	CAP, CHIP S 0.01-25 B
C7	★87-010-147-019	CAP, CHIP S 3P-50 CH(Z)
C7	★87-010-150-019	CAP, CHIP S 6P-50 CH(EXCEPT Z)
C8	★87-018-102-019	CAP, CERA-SOL U 6.8P-50 SL (EXCEPT Z)
C9	★87-010-158-019	CAP, CHIP S 22P-50 SL
C10	★87-010-154-019	CAP, CHIP S 10P-50 CH
C11	★87-010-312-019	CAP, CHIP S 15P-50 CH
C12	★87-010-312-019	CAP, CHIP S 15P-50 CH
C13	★87-010-197-019	CAP, CHIP S 0.01-25 B
C14	★87-010-146-019	CAP, CHIP S 2P-50 CH
C15	★87-010-145-019	CAP, CHIP S 1P-50 CH
C16	★87-010-154-019	CAP, CHIP S 10P-50 CH(EXCEPT Z)
C16	★87-010-149-019	CAP, CHIP S 5P-50 CH(Z)
C17	★87-010-197-019	CAP, CHIP S 0.01-25 B
C18	★87-010-170-019	CAP, CHIP S 220P-50 SL
C19	★87-010-197-019	CAP, CHIP S 0.01-25 B
C20	★87-010-197-019	CAP, CHIP S 0.01-25 B
C21	★87-010-197-019	CAP, CHIP S 0.01-25 B
C22	★87-010-400-019	CAP, ELECT 0.47-50 SME
C23	★87-010-197-019	CAP, CHIP S 0.01-25 B
C24	★87-010-149-019	CAP, CHIP S 5P-50 CH
C25	★87-010-197-019	CAP, CHIP S 0.01-25 B(EXCEPT Z)
C26	★87-010-312-019	CAP, CHIP S 15P-50 CH
C27	★87-010-197-019	CAP, CHIP S 0.01-25 B
C30	★87-010-401-019	CAP, ELECT 1-50 SME
C31	★87-010-197-019	CAP, CHIP S 0.01-25 B
C32	★87-010-197-019	CAP, CHIP S 0.01-25 B
C33	★87-010-405-019	CAP, ELECT 10-50 SME
C34	★87-010-166-019	CAP, CHIP S 100P-50 SL
C35	★87-010-197-019	CAP, CHIP S 0.01-25 B
C36	★87-010-401-019	CAP, ELECT 1-50 SME
C37	★87-010-404-019	CAP, ELECT 4.7-50 SME
C38	★87-010-405-019	CAP, ELECT 10-50 SME
C39	★87-010-544-019	CAP, ELECT 0.1-50
C40	★87-010-403-019	CAP, ELECT 3.3-50 SME
C41	★87-010-404-019	CAP, ELECT 4.7-50 SME
C42	★87-010-404-019	CAP, ELECT 4.7-50 SME(Z)

REF. NO.	PART NO.	DESCRIPTION
C43	★87-010-197-019	CAP, CHIP S 0.01-25 B
C45	★87-010-404-019	CAP, ELECT 4.7-50 SME
C46	★87-010-197-019	CAP, CHIP S 0.01-25 B
C47	★87-010-197-019	CAP, CHIP S 0.01-25 B
C48	★87-010-197-019	CAP, CHIP S 0.01-25 B
C49	★87-010-197-019	CAP, CHIP S 0.01-25 B
C50	★87-010-197-019	CAP, CHIP S 0.01-25 B
C51	★87-010-197-019	CAP, CHIP S 0.01-25 B
C52	★87-010-197-019	CAP, CHIP S 0.01-25 B(E, K, Z)
C53	★87-010-196-019	CAP, CHIP S 0.1-25 F
C54	★87-010-197-019	CAP, CHIP S 0.01-25 B(E, K, Z)
C55	★87-014-049-019	CAP, PP 470P-100 J(E, K, Z)
C56	★87-010-152-019	CAP, CHIP S 8P-50 CH(HE, LH, U)
C56	★87-010-158-019	CAP, CHIP S 22P-50 SL(E, K, Z)
C57	★87-010-169-019	CAP, CHIP S 180P-50 SL(E, K. Z)
C58	★87-014-050-019	CAP, PP 510P-100 J(E, K, Z)
C60	★87-010-404-019	CAP, ELECT 4.7-50 SME(Z)
C61	★87-010-401-019	CAP, ELECT 1-50 SME
C62	★87-010-403-019	CAP, ELECT 3.3-50 SME
C63	★87-014-057-019	CAP, PP 1000P-100 J
C64	★87-010-405-019	CAP, ELECT 10-50 SME
C67	★87-010-179-019	CAP, CHIP S 1200P-50 B
C68	★87-010-179-019	CAP, CHIP S 1200P-50 B
C69	★87-010-400-019	CAP, ELECT 0.47-50 SME
C70	★87-010-400-019	CAP, ELECT 0.47-50 SME
C71	★87-010-184-019	CAP, CHIP S 3300P-50 B
C72	★87-010-184-019	CAP, CHIP S 3300P-50 B
C73	★87-010-401-019	CAP, ELECT 1-50 SME
C74	★87-010-401-019	CAP, ELECT 1-50 SME
C75	★87-010-248-019	CAP, ELECT 220-10 SME
C76	★87-010-312-019	CAP, CHIP S 15P-50 CH
C77	★87-010-197-019	CAP, CHIP S 0.01-25 B
C78	★87-010-197-019	CAP, CHIP S 0.01-25 B
C79	★87-010-197-019	CAP, CHIP S 0.01-25 B
C80	★87-010-384-019	CAP, ELECT 100-25 SME
C81	★87-010-186-019	CAP, CHIP S 4700P-50 B
C82	★87-010-400-019	CAP, ELECT 0.47-50 SME(H, U)
C82	★87-010-401-019	CAP, ELECT 1-50 SME(E, K, Z)
C83	★87-015-762-019	CAP, CHIP 68P SL
C84	★87-010-164-019	CAP, CHIP S 68P-50 SL
C85	★87-010-164-019	CAP, CHIP S 68P-50 SL
C86	★87-018-134-019	CAP, CERA-SOL U 0.01-16 Y
C87	★87-010-263-019	CAP, ELECT 100-10
C88	★87-010-263-019	CAP, ELECT 100-10
C89	★87-010-263-019	CAP, ELECT 100-10
C90	★87-010-197-019	CAP, CHIP S 0.01-25 B
C100	★87-010-197-019	CAP, CHIP S 0.01-25 B
C101	★87-010-197-019	CAP, CHIP S 0.01-25 B
C102	★87-010-311-019	CAP, CHIP S 12P-50 CH(E, K, Z)
C103	★87-010-197-019	CAP, CHIP S 0.01-25 B(E, K)
C103	★87-010-311-019	CAP, CHIP S 12P-50 CH(Z)
C105	★87-010-146-019	CAP, CHIP S 2P-50 CH(Z)
C106	★87-010-148-019	CAP, CHIP S 4P-50 CH(Z)
D1	★87-026-360-010	VARICAP, CHIP KV1430
D2	★87-026-360-010	VARICAP, CHIP KV1430
D3	★87-026-360-010	VARICAP, CHIP KV1430
D6	★81-754-634-010	VARICAP, KV1260(E, K, Z)
D7	★87-026-360-010	VARICAP, CHIP KV1430(Z)
CF1	★87-030-105-010	FILTER, BPMB6A(Z)
CF2	★82-799-621-010	FILTER, CERAMIC MS2-A(Z)
CF3	★87-008-261-019	FILTER, SFE10.7MA5-A
CF4	★87-008-261-019	FILTER, SFE10.7MA5-A
CF5	★82-794-670-019	BFU 450C4N
J1	★81-631-646-019	ANT TERM 2P PAL(ANTENNA)(E, K, Z)
J1	★81-760-694-019	PUSH TERMINAL 4P(ANTENNA) (HE, LH, U)
J2	81-754-629-019	CONNECTOR XH M 2P (UL) (MW/LW LOOP)(E, K)

REF. NO.	PART NO.	DESCRIPTION
L1	★87-006-209-019	COIL. ANT FM 3/4 T
L2	★87-006-210-019	COIL, ANT FM 2 3/4T
L3	★87-006-200-019	COIL, RF FM 3-1/2T, L5
L4	★87-006-201-019	COIL, RF FM3-1/2TS, L5
L5	★87-006-201-019	COIL, RF FM3-1/2TS, L5(Z)
L6	★87-006-205-019	COIL, OSC FM (7K)
L7	★87-003-231-019	COIL, CHIP S 1UH
L8	★87-008-427-019	COIL, FM IFT (4T)
L9	★81-631-611-019	COIL, QUAD (SINGLE)
L11	★87-008-452-019	FILTER, CFAZ-450
L12	★87-006-207-019	COIL, ANT MW (3B)(E, K, Z)
L13	★87-006-208-019	COIL, ANT LW(E, K, Z)
L14	★82-794-687-019	COIL, OSC(E, K, Z)
L15	★81-631-643-010	COIL, 1 POLE MPX(Z)
L15	★81-631-643-019	COIL, 1 POLE MPX(HE, LH, U, E, K)
L16	★81-631-643-010	COIL, 1 POLE MPX(Z)
L16	★81-631-643-019	COIL, 1 POLE MPX(HE, LH, U, E, K)
L17	★82-794-688-019	COIL, OSC LW(E, K, Z)
L18	★87-008-421-019	COIL, FILTER AMTI-BIRDIE(Z)
L19	★87-003-098-019	COIL, 2.2UH
SFR1	★87-024-174-019	SFR, 33K
SFR2	★87-024-171-019	SFR, 4.7K
TC1	★87-011-219-019	CAP, TRIMMER 10P
TC2	★87-011-219-019	CAP, TRIMMER 10P
TC3	★87-011-219-019	CAP, TRIMMER 10P(Z)
TC4	★87-011-220-019	CAP, TRIMMER 20P(E, K, Z)
TC5	★87-011-221-019	CAP, TRIMMER 30P
TC6	★87-011-221-019	CAP, TRIMMER 30P(E, K, Z)
X1	★87-030-163-019	VIB, XTAL 7.2MHZ(NDK)
		===RELAY CIRCUIT BOARD SECTION===
		===MAIN CIRCUIT BOARD SECTION===
C301	★87-018-131-019	CAP, CERA-SOL U 1000P-50 B
C302	★87-018-131-019	CAP, CERA-SOL U 1000P-50 B
C303	★87-010-405-019	CAP, ELECT 10-50 SME
C304	★87-010-405-019	CAP, ELECT 10-50 SME
C305	★87-010-374-019	CAP, ELECT 47-10
C306	★87-010-374-019	CAP, ELECT 47-10
C307	★87-010-260-019	CAP, ELECT 47-25 SME
C308	★87-010-260-019	CAP, ELECT 47-25 SME
C309	★87-018-111-019	CAP, CERA-SOL U 27P-50 SL
C310	★87-018-111-019	CAP, CERA-SOL U 27P-50 SL
C311	★87-018-214-019	CAP, CERA-SOL U 0.1-50 F
C312	★87-018-214-019	CAP, CERA-SOL U 0.1-50 F
C315	★87-010-408-019	CAP, ELECT 47-50 SME
C316	★87-018-134-019	CAP, CERA-SOL U 0.01-16 Y
C317	★87-018-134-019	CAP, CERA-SOL U 0.01-16 Y
C318	★87-010-544-019	CAP, ELECT 0.1-50(EXCEPT U)
C319	★87-010-401-019	CAP, ELECT 1-50 SME(EXCEPT U)
C320	★87-010-400-019	CAP, ELECT 0.47-50(EXCEPT U)
C321	★87-010-403-019	CAP, ELECT 3.3-50 SME(EXCEPT U)
C322	★87-010-403-019	CAP, ELECT 3.3-50 SME(EXCEPT U)
C323	★87-010-402-019	CAP, ELECT 2.2-50 SME
C324	★87-010-402-019	CAP, ELECT 2.2-50 SME
C325	★87-010-401-019	CAP, ELECT 1-50 SME
C326	★87-010-401-019	CAP, ELECT 1-50 SME
C327	★87-016-096-010	CAP, ELECT 47-16 FX
C328	★87-016-096-010	CAP, ELECT 47-16 FX
C329	★87-016-072-010	CAP, ELECT 0.47-50 FX
C330	★87-016-072-010	CAP, ELECT 0.47-50 FX
C331	★87-016-072-010	CAP, ELECT 0.47-50 FX
C332	★87-016-072-010	CAP, ELECT 0.47-50 FX
C333	★87-010-401-019	CAP, ELECT 1-50 SME
C334	★87-010-401-019	CAP, ELECT 1-50 SME
C335	★87-010-401-019	CAP, ELECT 1-50 SME
C336	★87-010-401-019	CAP, ELECT 1-50 SME
C337	★87-018-134-019	CAP, CERA-SOL U 0.01-16 Y

REF. NO.	PART NO.	DESCRIPTION
C338	★87-010-405-019	CAP, ELECT 10-50 SME
C350	★87-010-403-019	CAP, ELECT 3.3-50 SME
C351	★87-010-374-019	CAP, ELECT 47-10
C352	★87-010-453-010	CAP, ELECT 4700-25 SME(EXCEPT U)
C352	★87-010-390-019	CAP ELECT 3300-25 SME(U)
C353	★87-010-405-019	CAP, ELECT 10-50 SME
C354	★87-018-127-019	CAP, CERA-SOL U 470P-50 B
C355	★87-010-260-019	CAP, ELECT 47-25 SME
C356	★87-010-408-019	CAP, ELECT 47-50 SME
C357	★87-010-260-010	CAP, ELECT 47-25 SME(HE, LH, U)
C357	★87-010-382-019	CAP, ELECT 22-25 SME(E, K, Z)
C358	★87-010-766-019	CAP, ELECT 330-63
C363	★87-010-101-019	CAP, ELECT 220-16 SME
C370	★87-010-374-019	CAP, ELECT 47-10
C371	★87-010-221-019	CAP, ELECT 470-10
C372	★87-010-263-019	CAP, ELECT 100-10
C373	★87-010-404-019	CAP, ELECT 4.7-50 SME
C374	★87-010-404-019	CAP, ELECT 4.7-50 SME
C376	★87-010-405-019	CAP, ELECT 10-50 SME
C379	★87-010-382-019	CAP, ELECT 22-25 SME
C380	★87-018-134-019	CAP, CERA-SOL U 0.01-16 Y
C381	★81-794-643-019	CAP, ELECT 4700-50 SME(HE, LH, U)
C381	★87-016-055-019	CAP, ELECT 3300-42(E, K, Z)
C382	★81-794-643-019	CAP, ELECT 4700-50 SME(HE, LH, U)
C382	★87-016-055-019	CAP, ELECT 3300-42(E, K, Z)
C385	★87-010-263-019	CAP, ELECT 100-10
C386	★87-010-381-019	CAP, ELECT 330-16 SME
C387	★87-010-381-019	CAP, ELECT 330-16 SME
C388	★87-010-405-019	CAP, ELECT 10-50 SME
C391	★87-010-405-019	CAP, ELECT 10-50 SME
C392	★87-010-405-019	CAP, ELECT 10-50 SME
C393	★87-018-134-019	CAP, CERA-SOL U 0.01-16 Y
C394	★87-010-260-019	CAP, ELECT 47-25 SME
C395	★87-010-260-019	CAP, ELECT 47-25 SME
C396	★87-018-211-019	CAP, CERA-SOL U 0.01-50(Z)
C397	★87-018-211-019	CAP, CERA-SOL U 0.01-50(Z)
C401	★87-010-405-019	CAP, ELECT 10-50 SME
C402	★87-010-405-019	CAP, ELECT 10-50 SME
C403	★87-018-132-019	CAP, CERA-SOL U 2200P-16 X
C404	★87-018-132-019	CAP, CERA-SOL U 2200P-16 X
C408	★87-018-132-019	CAP, CERA-SOL U 2200P-16 X
C409	★87-018-132-019	CAP, CERA-SOL U 2200P-16 X
C410	★87-018-132-019	CAP, CERA-SOL U 2200P-16 X
C411	★87-018-132-019	CAP, CERA-SOL U 2200P-16 X
C412	★87-018-119-019	CAP, CERA-SOL U 100P-50 B
C415	★87-010-404-019	CAP, ELECT 4.7-50 SME
C416	★87-010-404-019	CAP, ELECT 4.7-50 SME
C417	★87-018-119-019	CAP, CERA-SOL U 100P-50 B
C533	★87-018-123-019	CAP, CERA-SOL U 220P-50 B
C534	★87-018-123-019	CAP, CERA-SOL U 220P-50 B
L319	★87-005-366-019	COIL, 1UH(Z)
L320	★87-005-366-019	COIL, 1UH(Z)
J1	★80-MT3-618-019	JACK, PIN 3P EARTH(DAT/VIDEO1 IN)
J2	★80-MT3-617-019	JACK, PIN 3P(VIDEO2 IN)
J3	★80-MT3-617-019	JACK, PIN 3P(MONITOR OUT)
J4	★80-MT3-616-019	JACK, PIN 2P(SURROUND SPEAKERS)
J5	80-MT3-615-019	JACK, 6.3(PHONES)
J7	★87-033-215-019	TERMINAL SP 4P R (*) (SPEAKERS)
R321	★87-022-050-019	RES, METAL 1W-0.22J(EXCEPT U)
R322	★87-022-050-019	RES, METAL 1W-0.22J(EXCEPT U)
R323	★87-022-050-019	RES, METAL 1W-0.22J(EXCEPT U)
R324	★87-022-050-019	RES, METAL 1W-0.22J(EXCEPT U)
R389	★87-022-050-019	RES, METAL 1W-0.22J
R390	★87-022-050-019	RES, METAL 1W-0.22J
RY1	★87-045-335-010	RELAY, G5Z-2A 12VDC
VR302	★81-MT3-631-019	VR, 50KBX2(DAT/VIDEO1 INPUT LEVEL)

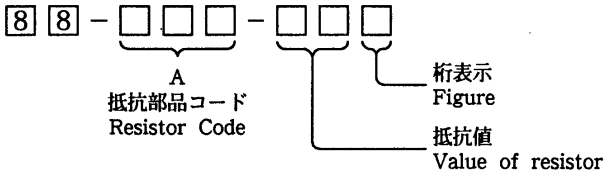
REF. NO.	PART NO.	DESCRIPTION
===FRONT CIRCUIT BOARD SECTION===		
C51	★87-018-131-019	CAP, CERA-SOL U 1000P-50 B
C52	★87-018-104-019	CAP, CERA-SOL U 10P-50 SL
C53	★87-010-405-019	CAP, ELECT 10-50 SME
C54	★87-010-402-019	CAP, ELECT 2.2-50 SME
C56	★87-010-075-019	CAP, ELECT 10-16 5L
C81	★87-010-405-019	CAP, ELECT 10-50 SME
C101	★87-010-415-019	CAP, ELECT 10-50 SRE
C102	★87-010-405-019	CAP, ELECT 10-50 SME
C103	★87-010-405-019	CAP, ELECT 10-50 SME
C110	★87-018-101-019	CAP, CERA-SOL U 5.6P-50 SL
C111	★87-010-405-019	CAP, ELECT 10-50 SME
C112	★87-010-263-019	CAP, ELECT 100-10
C114	★87-018-214-019	CAP, CERA-SOL U 0.1-50 F
C115	★87-010-401-019	CAP, ELECT 1-50 SME
C130	★87-018-211-019	CAP, CERA-SOL U 0.01-50F
C140	★87-018-131-019	CAP, CERA-SOL U 1000P-50 B
C201	★87-018-195-019	CAP, CERA-SOL U 1200P-16 X
C202	★87-010-404-019	CAP, ELECT 4.7-50 SME
C203	★87-018-128-019	CAP, CERA-SOL U 560P-50 B
C205	★87-010-405-019	CAP, ELECT 10-50 SME
C207	★87-010-546-019	CAP, ELECT 0.33-50 SME
C208	★87-018-211-019	CAP, CERA-SOL U 0.01-50F
C210	★87-010-405-019	CAP, ELECT 10-50 SME
CSA100	★87-030-264-010	CERA LOCK(MU)12.0MHZ
D91	87-020-862-010	LED, SEL-2213C(TAPE/DECK1/2)
D92	87-020-862-010	LED, SEL-2213C(TUNER/BAND)
D93	87-020-862-010	LED, SEL-2213C(CD)
D94	87-020-862-010	LED, SEL-2213C(DAT/VIDEO1)
D95	87-020-862-010	LED, SEL-2213C(VIDEO2)
D96	89-VW5-606-019	LED, SLH-38MC, 70F-90(▼DOWN)
D97	89-VW5-606-019	LED, SLH-38MC, 70F-90(▲UP)
FL101	81-MT3-652-010	FL, BJ032GK(DISPLAY)
J201	81-MX4-630-019	JACK, 3.5(MIC)
L10	★87-003-098-019	COIL, 2.2UH
L51	★87-003-154-019	COIL, 220UH
L55	★87-003-154-019	COIL, 220UH
L101	★87-003-152-019	COIL, 100UH
L112	★87-003-102-019	COIL, 10UH
L130	★87-003-098-019	COIL, 2.2UH
L131	★87-003-098-019	COIL, 2.2UH
L132	★87-003-098-019	COIL, 2.2UH
L133	★87-003-098-019	COIL, 2.2UH
L141	★87-003-098-019	COIL, 2.2UH
L142	★87-003-098-019	COIL, 2.2UH
L143	★87-003-098-019	COIL, 2.2UH
⚠R83	87-029-366-019	RES, FUSE 4.7-1/2W
SW150	87-036-215-019	TACT SW(DEMO) (HE, LH, U)
SW150	87-036-259-018	TACT SW(DEMO) (E, K, Z)
SW151	87-036-215-019	TACT SW(POWER) (HE, LH, U)
SW151	87-036-259-018	TACT SW(POWER) (E, K, Z)
SW152	87-036-215-019	TACT SW(OPEN/CLOSE) (HE, LH, U)
SW152	87-036-259-018	TACT SW(OPEN/CLOSE) (E, K, Z)
SW153	87-036-215-019	TACT SW(TAPE/DECK1/2) (HE, LH, U)
SW153	87-036-259-018	TACT SW(TAPE/DECK1/2) (E, K, Z)
SW154	87-036-215-019	TACT SW(TUNER/BAND) (HE, LH, U)
SW154	87-036-259-018	TACT SW(TUNER/BAND) (E, K, Z)
SW155	87-036-215-019	TACT SW(CD) (HE, LH, U)
SW155	87-036-259-018	TACT SW(CD) (E, K, Z)
SW156	87-036-215-019	TACT SW(DAT/VIDEO1) (HE, LH, U)
SW156	87-036-259-018	TACT SW(DAT/VIDEO1) (E, K, Z)
SW157	87-036-215-019	TACT SW(VIDEO2) (HE, LH, U)
SW157	87-036-259-018	TACT SW(VIDEO2) (E, K, Z)
SW158	87-036-215-019	TACT SW(▼DOWN) (HE, LH, U)
SW158	87-036-259-018	TACT SW(▼DOWN) (E, K, Z)
SW159	87-036-215-019	TACT SW(▲UP) (HE, LH, U)
SW159	87-036-259-018	TACT SW(▲UP) (E, K, Z)

REF. NO.	PART NO.	DESCRIPTION
VR201	★81-MT3-632-019	VR, 10KB(DIGITAL ECHO)(HE)
VR202	★81-MT3-633-019	VR, 10KA(MIC MIXING)
===TRAY CIRCUIT BOARD SECTION===		
C190	★87-018-211-019	CAP, CERA-SOL U 0.01-50F
C191	★87-018-211-019	CAP, CERA-SOL U 0.01-50F
C192	★87-018-211-019	CAP, CERA-SOL U 0.01-50F
C193	★87-018-211-019	CAP, CERA-SOL U 0.01-50F
SW1	87-036-215-019	TACT SW(1/ROCK)(HE, LH, U)
SW1	87-036-259-018	TACT SW(1/ROCK)(E, K, Z)
SW2	87-036-215-019	TACT SW(2/POPS)(HE, LH, U)
SW2	87-036-259-018	TACT SW(2/POPS)(E, K, Z)
SW3	87-036-215-019	TACT SW(3/CLASSIC)(HE, LH, U)
SW3	87-036-259-018	TACT SW(3/CLASSIC)(E, K, Z)
SW4	87-036-215-019	TACT SW(4/HS)(HE, LH, U)
SW4	87-036-259-018	TACT SW(4/HS)(E, K, Z)
SW5	87-036-215-019	TACT SW(5/CAR)(HE, LH, U)
SW5	87-036-259-018	TACT SW(5/CAR)(E, K, Z)
SW6	87-036-215-019	TACT SW(MEMORY)(HE, LH, U)
SW6	87-036-259-018	TACT SW(MEMORY)(E, K, Z)
SW7	87-036-215-019	TACT SW(ON)(HE, LH, U)
SW7	87-036-259-018	TACT SW(ON)(E, K, Z)
SW8	87-036-215-019	TACT SW(OFF)(HE, LH, U)
SW8	87-036-259-018	TACT SW(OFF)(E, K, Z)
SW9	87-036-215-019	TACT SW(PRGM/CHECK)(HE, LH, U)
SW9	87-036-259-018	TACT SW(PRGM/CHECK)(E, K, Z)
SW10	87-036-215-019	TACT SW(RANDOM)(HE, LH, U)
SW10	87-036-259-018	TACT SW(RANDOM)(E, K, Z)
SW11	87-036-215-019	TACT SW(REPEAT/BLANK)(HE, LH, U)
SW11	87-036-259-018	TACT SW(REPEAT/BLANK)(E, K, Z)
SW12	87-036-215-019	TACT SW(AUTO/AI)(HE, LH, U)
SW12	87-036-259-018	TACT SW(AUTO/AI)(E, K, Z)
SW13	87-036-215-019	TACT SW(PRGM)(HE, LH, U)
SW13	87-036-259-018	TACT SW(PRGM)(E, K, Z)
SW14	87-036-215-019	TACT SW(CLEAR)(HE, LH, U)
SW14	87-036-259-018	TACT SW(CLEAR)(E, K, Z)
SW17	87-036-215-019	TACT SW(TIMER CHECK/TIME SET)(HE, LH, U)
SW17	87-036-259-018	TACT SW(TIMER CHECK/TIME SET)(E, K, Z)
SW18	87-036-215-019	TACT SW(SLEEP)(HE, LH, U)
SW18	87-036-259-018	TACT SW(SLEEP)(E, K, Z)
SW19	87-036-215-019	TACT SW(TUNING MODE)(HE, LH, U)
SW19	87-036-259-018	TACT SW(TUNING MODE)(E, K, Z)
SW20	87-036-215-019	TACT SW(TIMER SELECT)(HE, LH, U)
SW20	87-036-259-018	TACT SW(TIMER SELECT)(E, K, Z)
SW21	87-036-215-019	TACT SW(SET)(HE, LH, U)
SW21	87-036-259-018	TACT SW(SET)(E, K, Z)
SW22	87-036-215-019	TACT SW(▼DOWN)(HE, LH, U)
SW22	87-036-259-018	TACT SW(▼DOWN)(E, K, Z)
SW23	87-036-215-019	TACT SW(▲UP)(HE, LH, U)
SW23	87-036-259-018	TACT SW(▲UP)(E, K, Z)
SW25	87-036-215-019	TACT SW(T-BASS)(HE, LH, U)
SW25	87-036-259-018	TACT SW(T-BASS)(E, K, Z)
SW26	87-036-215-019	TACT SW(BBE)(HE, LH, U)
SW26	87-036-259-018	TACT SW(BBE)(E, K, Z)
SW27	87-036-215-019	TACT SW(∧)(HE, LH, U)
SW27	87-036-259-018	TACT SW(∧)(E, K, Z)
SW28	87-036-215-019	TACT SW(∨)(HE, LH, U)
SW28	87-036-259-018	TACT SW(∨)(E, K, Z)
SW29	87-036-215-019	TACT SW(>)(HE, LH, U)
SW29	87-036-259-018	TACT SW(>)(E, K, Z)
SW30	87-036-215-019	TACT SW(<)(HE, LH, U)
SW30	87-036-259-018	TACT SW(<)(E, K, Z)
SW31	87-036-110-019	PUSH SW(OPEN)
SW32	87-036-110-019	PUSH SW(CLOSE)
SW33	87-036-215-019	TACT SW(DISPLAY)(HE, LH, U)
SW33	87-036-259-018	TACT SW(DISPLAY)(E, K, Z)
SW34	87-036-215-019	TACT SW(COUNTER/RESET)(HE, LH, U)
SW34	87-036-259-018	TACT SW(COUNTER/RESET)(E, K, Z)
===VR CIRCUIT BAORD SECTION===		
C701	★87-010-404-019	CAP, ELECT 4.7-50 SME
C702	★87-010-404-019	CAP, ELECT 4.7-50 SME
C703	★87-010-404-019	CAP, ELECT 4.7-50 SME
C704	★87-010-404-019	CAP, ELECT 4.7-50 SME
C705	★87-010-404-019	CAP, ELECT 4.7-50 SME
C706	★87-010-404-019	CAP, ELECT 4.7-50 SME
C707	★87-018-127-019	CAP, CERA-SOL U 470P-50 B
C708	★87-018-127-019	CAP, CERA-SOL U 470P-50 B
C711	★87-010-402-019	CAP, ELECT 2.2-50 SME
C712	★87-010-402-019	CAP, ELECT 2.2-50 SME
C715	★87-010-546-019	CAP, ELECT 0.33-50 SME
C716	★87-010-546-019	CAP, ELECT 0.33-50 SME
C719	★87-010-544-019	CAP, ELECT 0.1-50
C720	★87-010-544-019	CAP, ELECT 0.1-50
C721	★87-018-203-019	CAP, CERA-SOL U 8200P-16 Y
C722	★87-018-203-019	CAP, CERA-SOL U 8200P-16 Y
C725	★87-018-199-019	CAP, CERA-SOL U 3300P-16 X
C726	★87-018-199-019	CAP, CERA-SOL U 3300P-16 X
C729	★87-018-131-019	CAP, CERA-SOL U 1000P-50 B
C732	★87-018-131-019	CAP, CERA-SOL U 1000P-50 B
C733	★87-018-127-019	CAP, CERA-SOL U 470P-50 B
C734	★87-018-127-019	CAP, CERA-SOL U 470P-50 B
C735	★87-018-199-019	CAP, CERA-SOL U 3300P-16 X
C736	★87-018-199-019	CAP, CERA-SOL U 3300P-16 X
C737	★87-010-404-019	CAP, ELECT 4.7-50 SME
C738	★87-010-404-019	CAP, ELECT 4.7-50 SME
C750	★87-010-371-019	CAP, ELECT 470-6.3
C751	★87-010-401-019	CAP, ELECT 1-50 SME
C752	★87-010-401-019	CAP, ELECT 1-50 SME
C753	★87-010-401-019	CAP, ELECT 1-50 SME
C754	★87-010-401-019	CAP, ELECT 1-50 SME
C759	★87-010-546-019	CAP, ELECT 0.33-50 SME
C760	★87-010-546-019	CAP, ELECT 0.33-50 SME
C761	★87-010-400-019	CAP, ELECT 0.47-50 SME
C762	★87-010-400-019	CAP, ELECT 0.47-50 SME
C763	★87-010-404-019	CAP, ELECT 4.7-50 SME
C764	★87-010-404-019	CAP, ELECT 4.7-50 SME
C767	★87-018-109-019	CAP, CERA-SOL U 22P-50 SL
C768	★87-018-109-019	CAP, CERA-SOL U 22P-50 SL
C771	★87-010-400-019	CAP, ELECT 0.47-50 SME
C772	★87-010-400-019	CAP, ELECT 0.47-50 SME
C773	★87-010-404-019	CAP, ELECT 4.7-50 SME
C774	★87-010-404-019	CAP, ELECT 4.7-50 SME
C775	★87-010-101-019	CAP, ELECT 220-16 SME
C776	★87-018-127-019	CAP, CERA-SOL U 470P-50 B
C777	★87-018-127-019	CAP, CERA-SOL U 470P-50 B
C779	★87-010-404-019	CAP, ELECT 4.7-50 SME
C780	★87-010-404-019	CAP, ELECT 4.7-50 SME
C781	★87-010-404-019	CAP, ELECT 4.7-50 SME
C782	★87-010-404-019	CAP, ELECT 4.7-50 SME
C786	★87-010-404-019	CAP. ELECT 4.7-50 SME(HE)
C787	★87-018-134-019	CAP, CERA-SOL U 0.01-16 Y(HE)
C788	★87-010-405-019	CAP, ELECT 10-50 SME(HE)
C790	★87-018-129-019	CAP, CERA-SOL U 680P-50 B(HE)
C791	★87-018-129-019	CAP, CERA-SOL U 680P-50 B(HE)
C792	★87-018-214-019	CAP, CERA-SOL U 0.1-50 F(HE)
C793	★87-010-404-019	CAP, ELECT 4.7-50 SME(HE)
C794	★87-018-202-019	CAP, CERA-SOL U 6800P-16 X(HE)
C795	★87-010-260-019	CAP, ELECT 47-25 SME(HE)
C796	★87-018-134-019	CAP, CERA-SOL U 0.01-16 Y(HE)
C797	★87-018-214-019	CAP, CERA-SOL U 0.1-50 F(HE, LH, U)
C798	★87-010-260-019	CAP, ELECT 47-25 SME(HE)
C801	★87-018-134-019	CAP, CERA-SOL U 0.01-16 Y(HE)
C802	★87-010-404-019	CAP, ELECT 4.7-50 SME(HE)

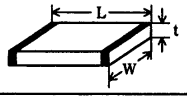
REF. NO.	PART NO.	DESCRIPTION
C803	★87-010-260-019	CAP, ELECT 47-25 SME
C804	★87-010-260-019	CAP, ELECT 47-25 SME
C805	★87-010-260-019	CAP, ELECT 47-25 SME
C806	★87-018-134-019	CAP, CERA-SOL U 0.01-16 Y
VR701	★81-MT3-630-019	VR, MOTOR 50KBX2 (VOLUME)
LED701	+ + +	LED, VR (VOLUME)
M701	+ + +	MOTOR, VR (VOLUME)
X700	★87-030-225-019	CERA LOCK CST3.58MHz (HE)
	===MOTOR CIRCUIT BOARD SECTION===	
M1	87-045-305-019	MOTOR, RF-500TB (TRAY)
	===PT-1 CIRCUIT BOARD SECTION===	
⚠PT101	★81-MT3-606-019	POWER TRANSFORMER HU (HE, LH, U)
⚠PT101	★81-MT3-608-018	POWER TRANSFORMER EK (E)
⚠PT101	★81-MT3-609-018	POWER TRANSFORMER E<230V> (K, Z)
R380	★87-025-507-019	RES, NF 0.22-1W
	===PT-2 CIRCUIT BOARD SECTION (HE, LH, U MODELS)===	
⚠	★87-033-213-019	FUSE CLAMP SMK (HE, LH, U)
⚠F1	★87-035-366-019	FUSE, 2.5A 250V T E/K (HE, LH)
⚠F1	★87-035-398-010	FUSE, 3.15A 250V UL (U)
⚠SW300	87-036-229-019	SW, SLIDE (AC VOLTAGE) (HE, LH)
⚠SW300	87-036-235-019	SW, SLIDE (AC VOLTAGE) (U)
	===MISCELLANEOUS===	
⚠	82-187-797-019	AC CORD E (HE, E, Z)
⚠	★87-034-749-019	AC CORD, H W/PLUG (LH)
⚠	★87-034-584-019	AC CORD, U SPT-2 (U)
⚠	★87-034-592-018	AC CORD K (K)
⚠	★87-085-185-010	BUSHING, AC CORD E (HE, E, K, Z)
⚠	★87-085-184-010	BUSHING, AC CORD D (LH)
⚠	★87-085-189-010	BUSHING, AC CORD U (U)

○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

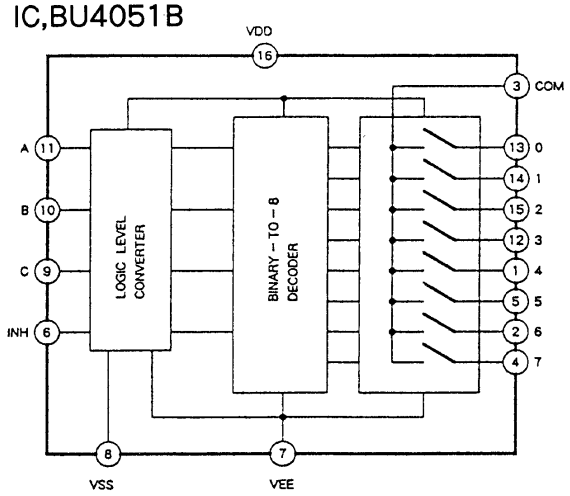


チップ抵抗
Chip resistor

Wattage 容量	Type 種類	Tolerance 許容誤差	Symbol 記号	Dimensions／寸法 (mm) Form/外形	L	W	t	Resistor Code : A 抵抗コード : A
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

IC BLOCK DIAGRAM (RX – N55)

IC,BU4051B

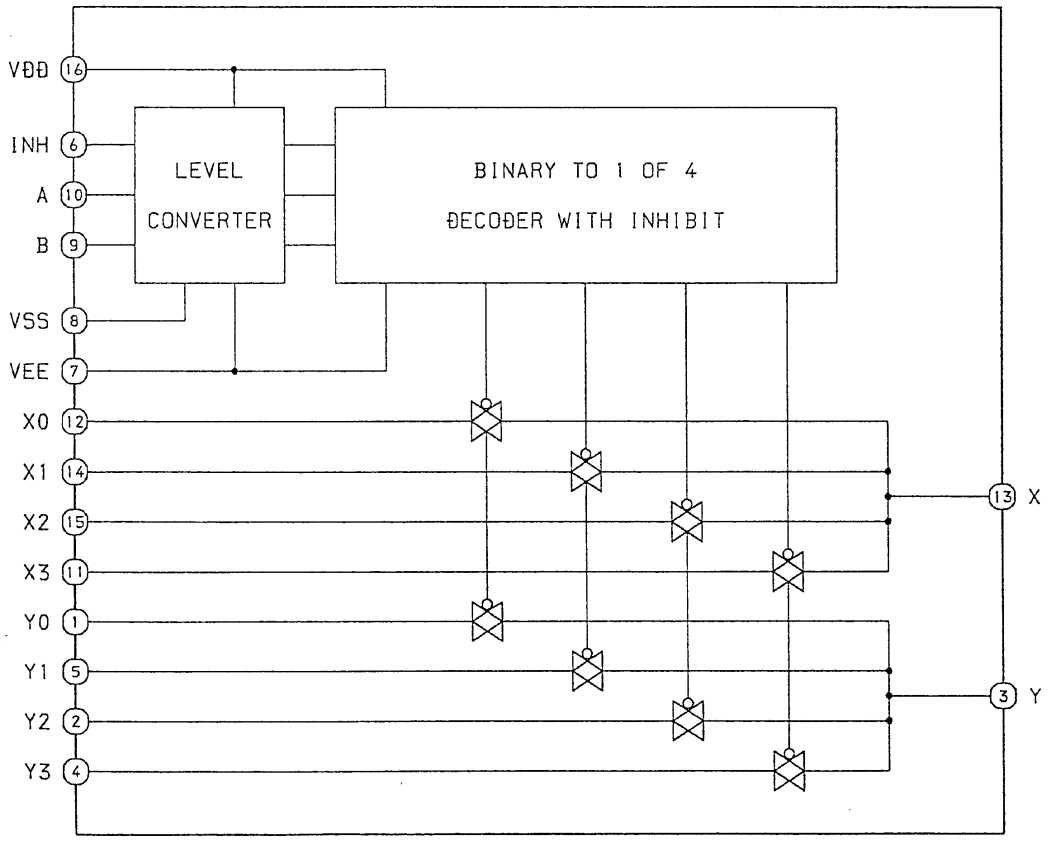


TRUTH TABLE

CONTROL INPUTS				"ON"
INHIBIT	C	B	A	CHANNEL
L	L	L	L	0
L	L	L	H	1
L	L	H	L	2
L	L	H	H	3
L	H	L	L	4
L	H	L	H	5
L	H	H	L	6
L	H	H	H	7
H	※	※	※	NOTE

※Don't Care

IC,BU4052B

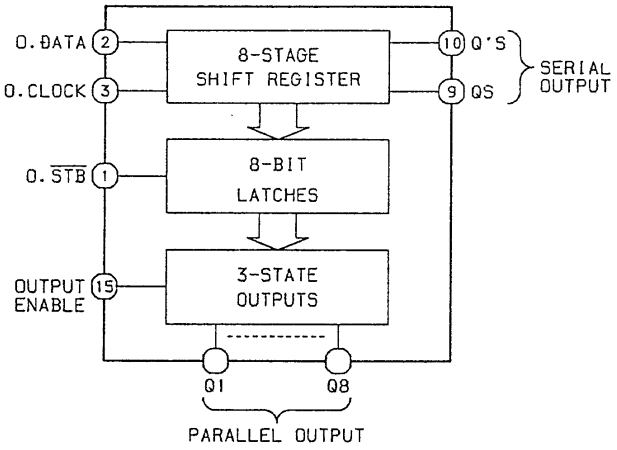


TRUTH TABLE

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,BU4094B



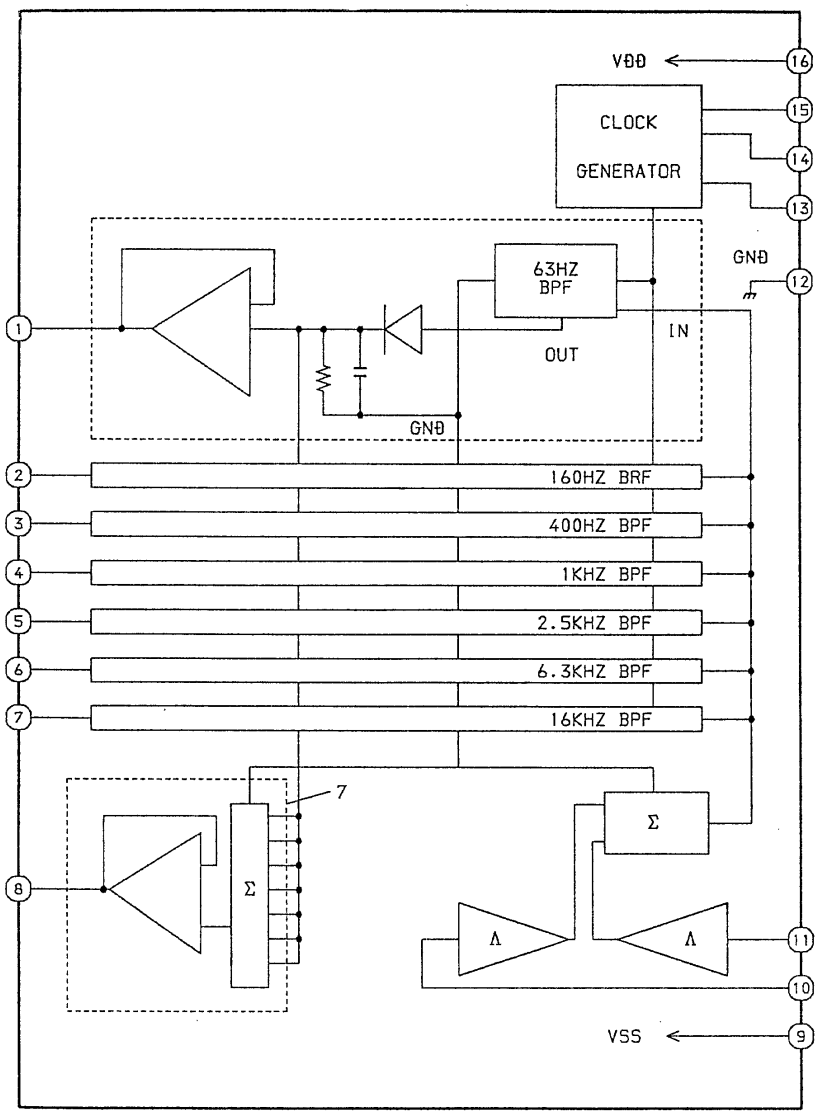
Q1:O.ĐOLBY ON Q5:O.PLAY
Q2:O.ĐOLBY C Q6:O.PB2
Q3:O.EXT.REC Q7:O.LEĐ
Q4:O.INT.REC Q8:O.$\overline{\text{RMT}}$

TRUTH TABLE

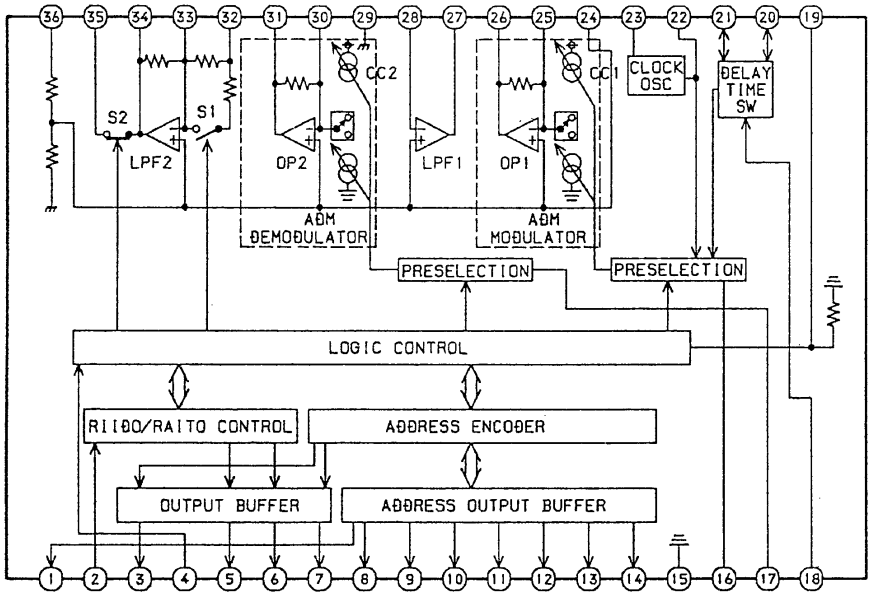
CLOCK	OUTPUT ENABLE	STROBE	ĐATA	PARALLEL OUTPUTS		SERIAL OUTPUTS	
				Q1	Qn	QS	Q'S
↓	L	X	X	Z	Z	Q7	NO CHG.
↑	L	X	X	Z	Z	NO CHG.	QS
↓	H	L	X	NO CHG.	NO CHG.	Q7	NO CHG.
↓	H	H	L	L	Qn-1	Q7	NO CHG.
↓	H	H	H	H	Qn-1	Q7	NO CHG.
↑	H	X	X	NO CHG.	NO CHG.	NO CHG.	QS

Z = HIGH IMPEĐANCE
X = ĐON'T CARE

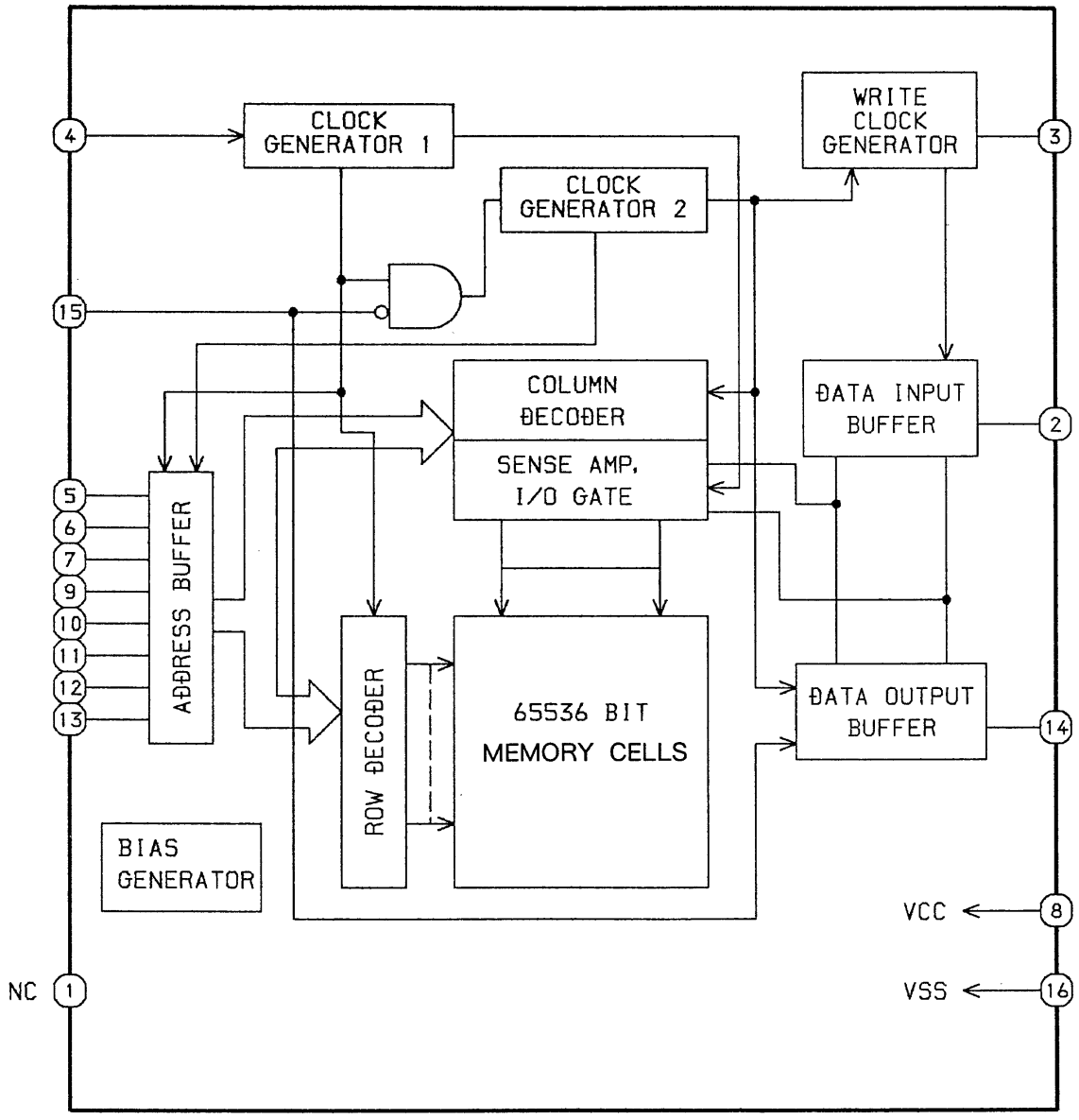
IC,XR1091



IC,M50195P



IC,LM3364 – 15



IC, DESCRIPTION (RX – N55)

IC, LC866012A – 5181

Pin No.	Pin Name	I/O	Description
1	O. DATA	O	Serial data output to tuner and IC, NJU7305 and BU4094B.
2	O. PLL CE	O	Tuner PLL CE.
3	O. CLK	O	NJU7305 and BU4094B serial clock output.
4	O. $\overline{SI}$	O	Serial data output to LC67216A-4911.
5	I. $\overline{SI}$	I	Serial data input from LC67216A-4911.
6	I. $\overline{CLK}$	I	Serial Clock input from LC67216A-4911.
7	O. GEQ. CE	O	NJU7305 electronic VR control CE.
8	O. $\overline{OE}$	O	IC, BU4094B OE control.
9	TEST	—	Not used.
10	RESET	I	Reset terminal.
11	XT1		Connect to +6V.
12	XT2		Not used.
13	VSS	—	Connect to GND.
14	CF1	I	Ceramic radiator input terminal.
15	CF2	O	Ceramic radiator output terminal.
16	VDD	—	Connect to +6V.
17	I. KEY1	I	Input KEY as A/D level.
18	I. KEY2		
19	I. KEY3		
20	I. SPEANA	I	Input spectrum analyzer input level as A/D level.
21	I. $\overline{HOLD}$	I	Power OFF detection terminal.
22	I. T. BASE	I	Clock time base input.
23	I. $\overline{SL}$	I	SL data input from LC67216A-4911.
24	I. $\overline{RMC}$	I	Remote control serial data input.
25	9G	O	FL GRID output port.
26	12G	O	FL GRID output port.
27	11G	O	FL GRID output port.
28	10G	O	FL GRID output port.
29	8G	O	FL GRID output port.
30	7G	O	FL GRID output port.
31	6G	O	FL GRID output port.
32	1G	O	FL GRID output port.
33	2G	O	FL GRID output port.
34	3G	O	FL GRID output port.
35	4G	O	FL GRID output port.
36	5G	O	FL GRID output port.
37	P1	O	FL segment output port.
38	P2	O	FL segment output port.
39	P6	O	FL segment output port.
40	P8	O	FL segment output port.

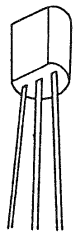
Pin No.	Pin Name	I/O	Description
41	VDD	—	Connect to +6V.
42	VPP	—	FL bias.
43	P9	O	FL segment output port.
44	P7	O	FL segment output port.
45	P3	O	FL segment output port.
46	P5	O	FL segment output port.
47	P4	O	FL segment output port.
48	P10	O	FL segment output port.
49	P15	O	FL segment output port.
50	P14	O	FL segment output port.
51	P13	O	FL segment output port.
52	P17	O	FL segment output port.
53	P18	O	FL segment output port. Microcomputer initializing setting.
54	P16	O	FL segment output port. Microcomputer initializing setting.
55	P12	O	FL segment output port. Microcomputer initializing setting.
56	P11	O	FL segment output port. Microcomputer initializing setting.
57	I. INITIAL	I	Initializing setting input.
58	I. $\overline{\text{TUNE}}$	I	Input port when tuned.
59	I. $\overline{\text{ST/BIL}}$	I	Input port when recieving stereo and bilingual.
60	I. $\overline{\text{TRAY OPEN}}$	I	Tray open SW input.
61	O. $\overline{\text{POWER}}$	O	Output when power ON.
62	O. MUTE	O	Output when MUTE.
63	O. CLK	O	CLK output for tuner.
64	O. $\overline{\text{STB}}$	O	IC, BU4094B STB output.

IC, LC7218

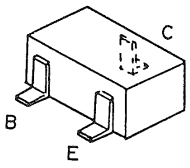
Pin No.	Pin Name	I/O	Description
1	X IN	I	Connected to the crystal clock oscillator.
2	CE	I	Input terminal of control data from microcomputer LC866012A.
3	DATA	I	
4	CLK	I	
5	—	—	Not used.
6	—	—	Not used.
7	—	—	Not used.
8	—	—	Not used.
9	T-BASE	O	Clock time base output.
10	—	—	Not used.
11	—	—	
12	AUTO-H	O	Auto hi-blend selection output.
13	MW-L	O	Tuner band selection output.
14	—	—	Not used.

Pin No.	Pin Name	I/O	Description
15	—	—	Not used.
16	—	—	Not used.
17	FM-L	O	Tuner band selection output. FM/AM
18	AM IN	I	AM oscillation frequency input.
19	FM IN	I	FM oscillation frequency input.
20	VDD	—	+5V power supply terminal.
21	E0	O	Tuning voltage control output.
22	E0	—	Not used.
23	VSS	—	Connected to GND.
24	XOUT	O	Connected to crystal clock oscillator.

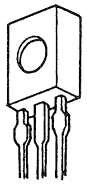
TRANSISTOR ILLUSTRATION (RX – N55)



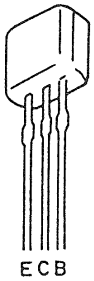
2SA933
2SA1318
2SC1815
2SC3266
2SC3331
2SD655



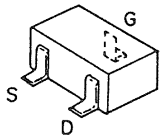
2SC2712
2SC2714
2SC3326
DTA114EK
DTA114YK



2SB1330
2SD2005

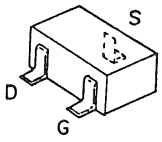


2SC1740
DTA114YS
DTA144
DTC114
DTC124



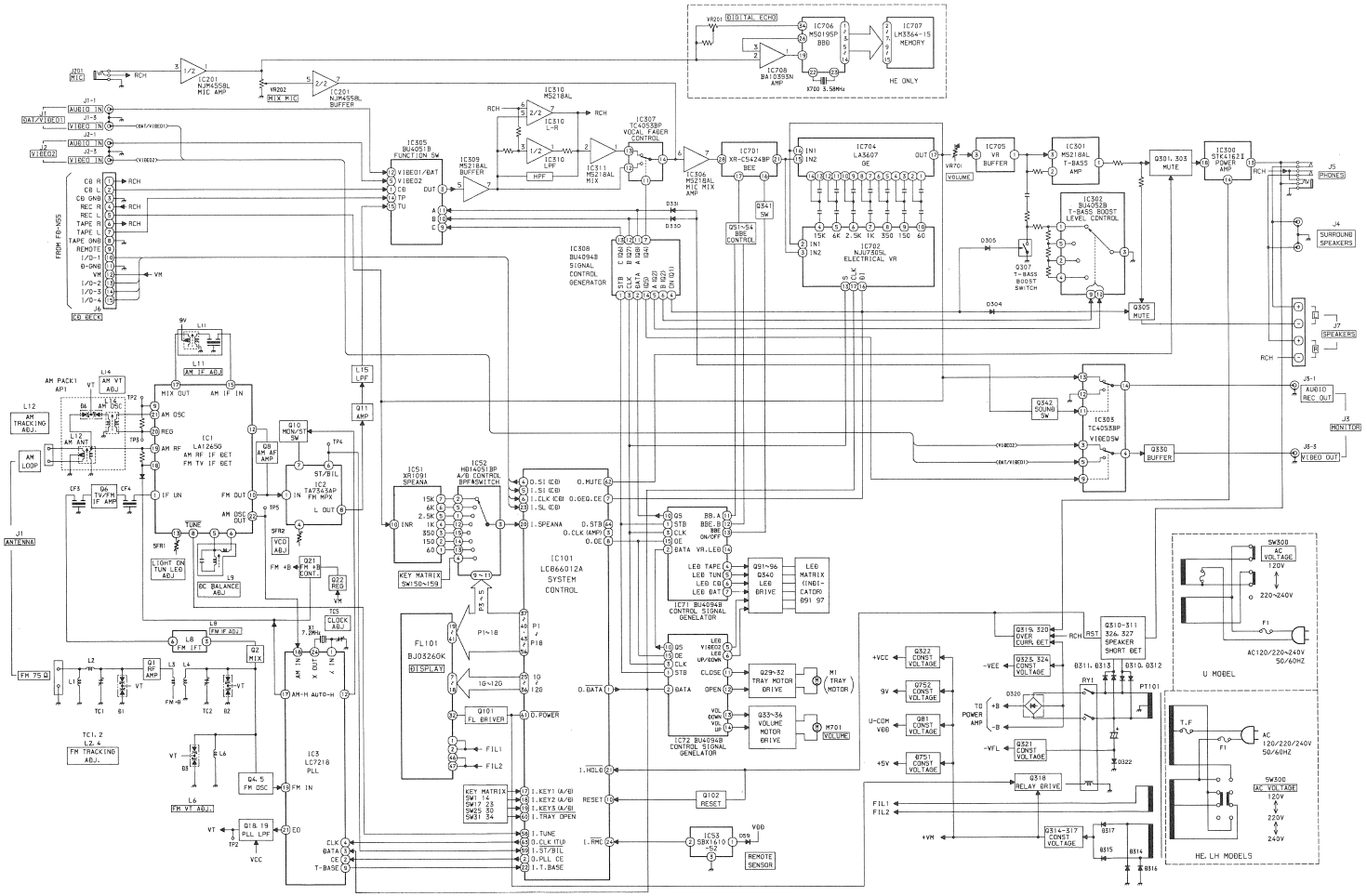
2SK209

2SK246

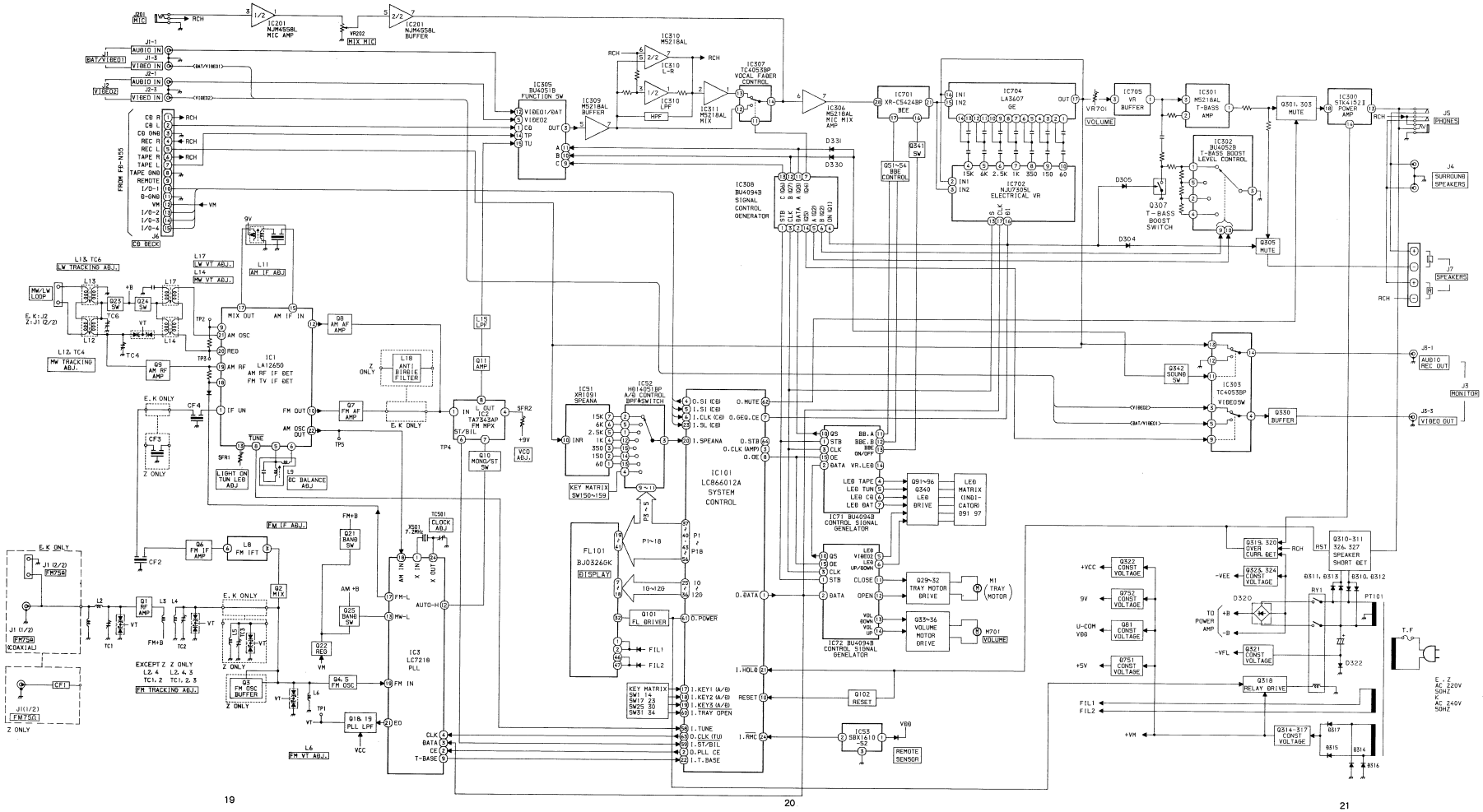


2SK211
2SK302

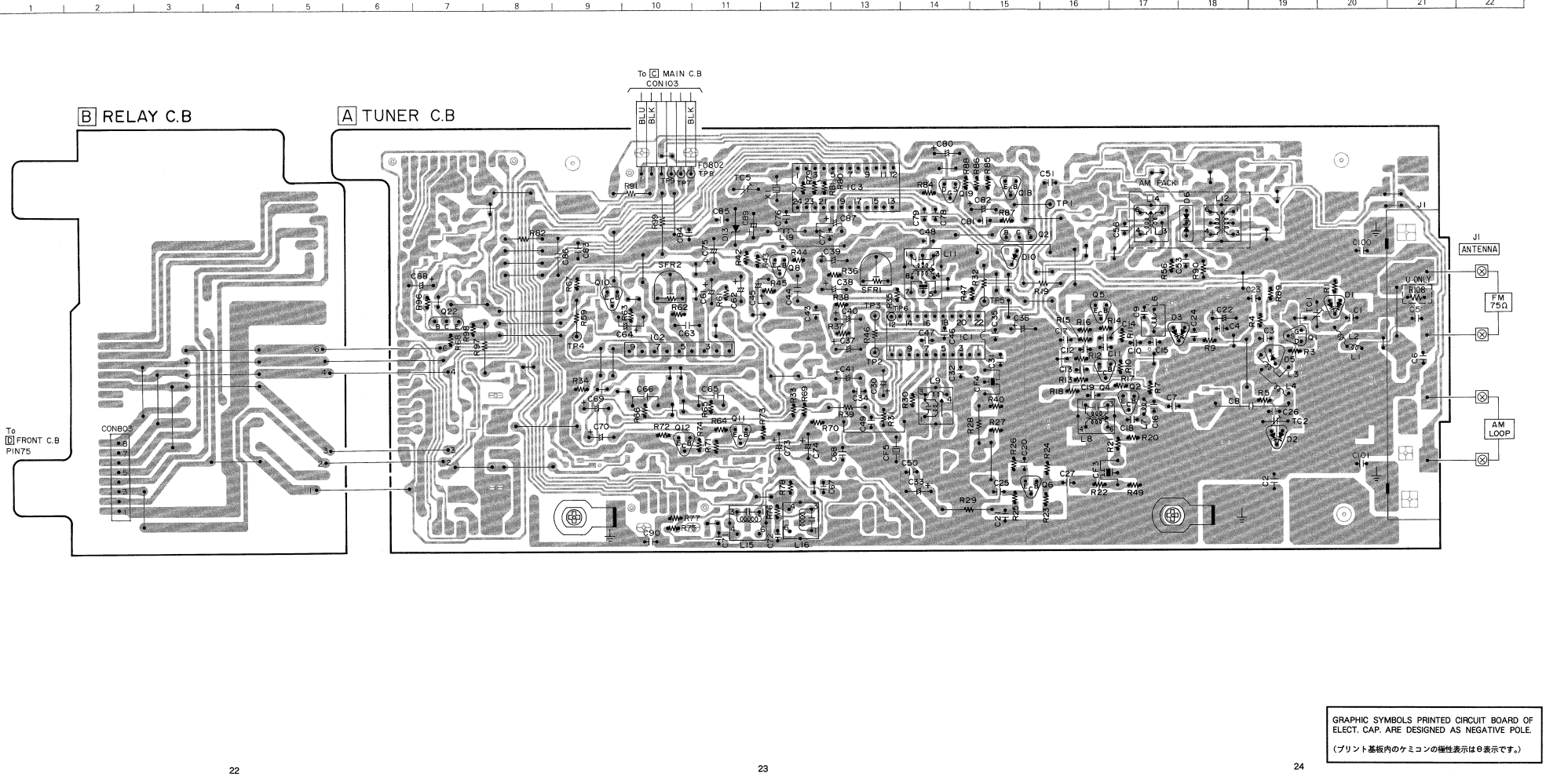
BLOCK DIAGRAM – 1 (RX – N55 : HE, LH, U MODELS)



BLOCK DIAGRAM – 2 (RX – N55 : E, K, Z MODELS)



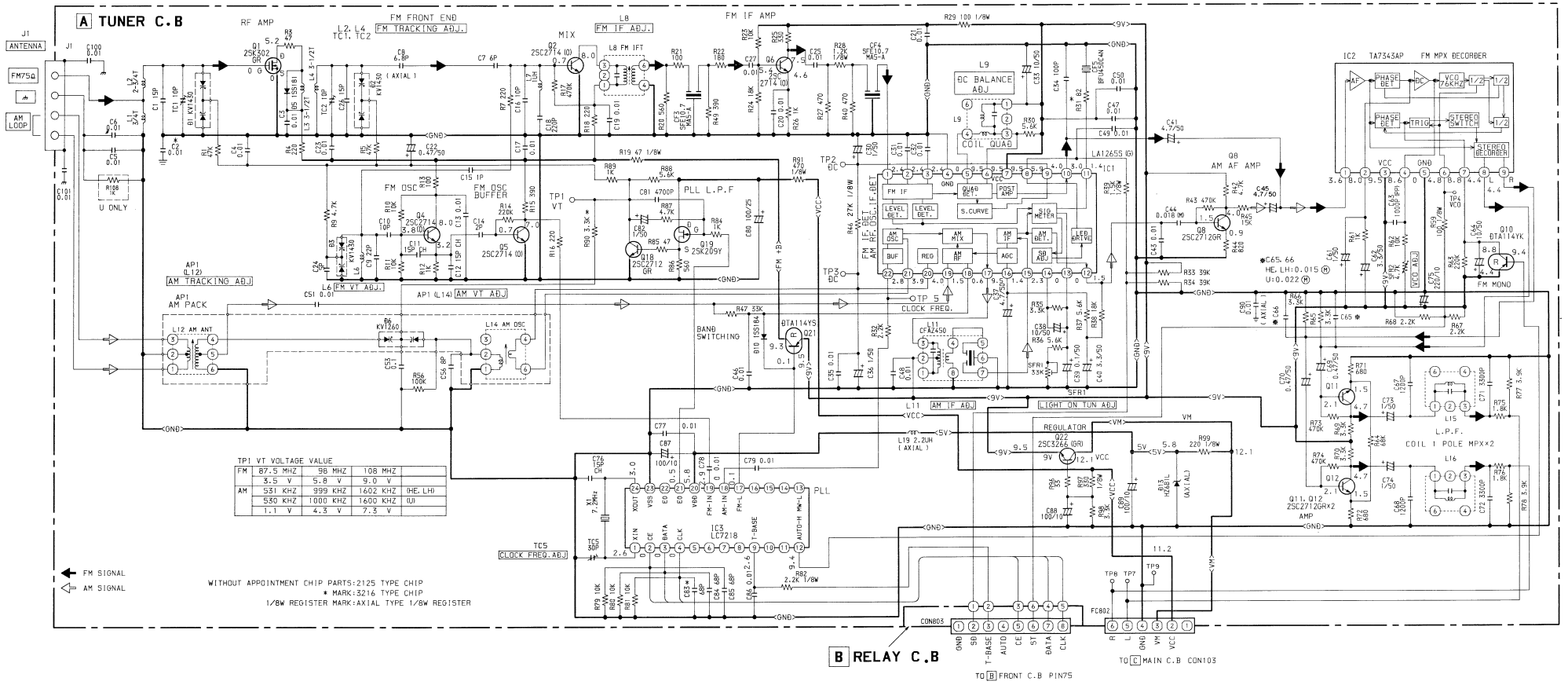
WIRING – 1 (RX – N55, TUNER : HE, LH, U MODELS)



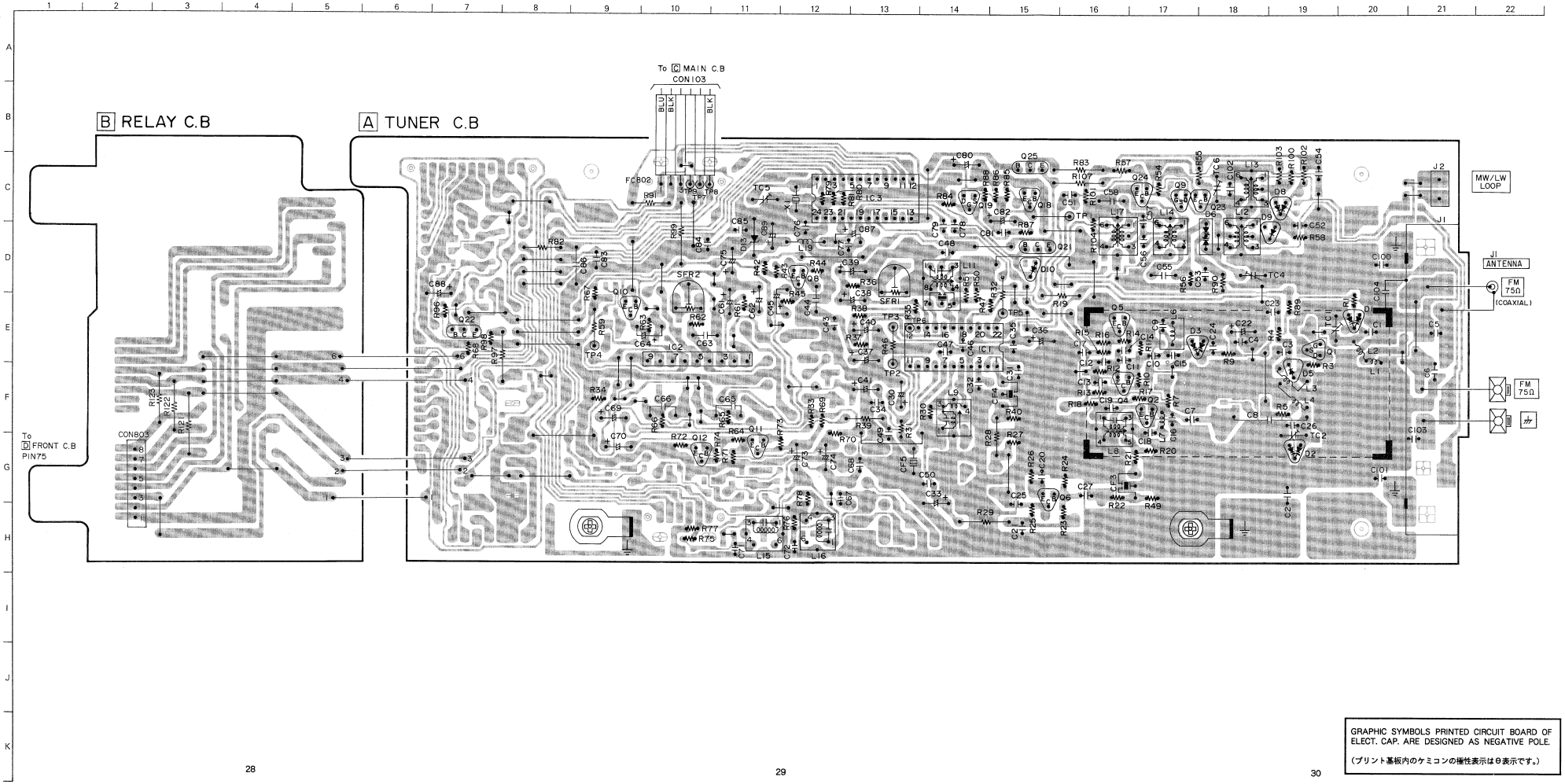
GRAPHIC SYMBOLS PRINTED CIRCUIT BOARD OF ELECT. CAP. ARE DESIGNED AS NEGATIVE POLE.

(プリント基板内のケミコンの極性表示はθ表示です。)

SCHEMATIC DIAGRAM – 1 (RX – N55, TUNER : HE, LH, U MODELS)



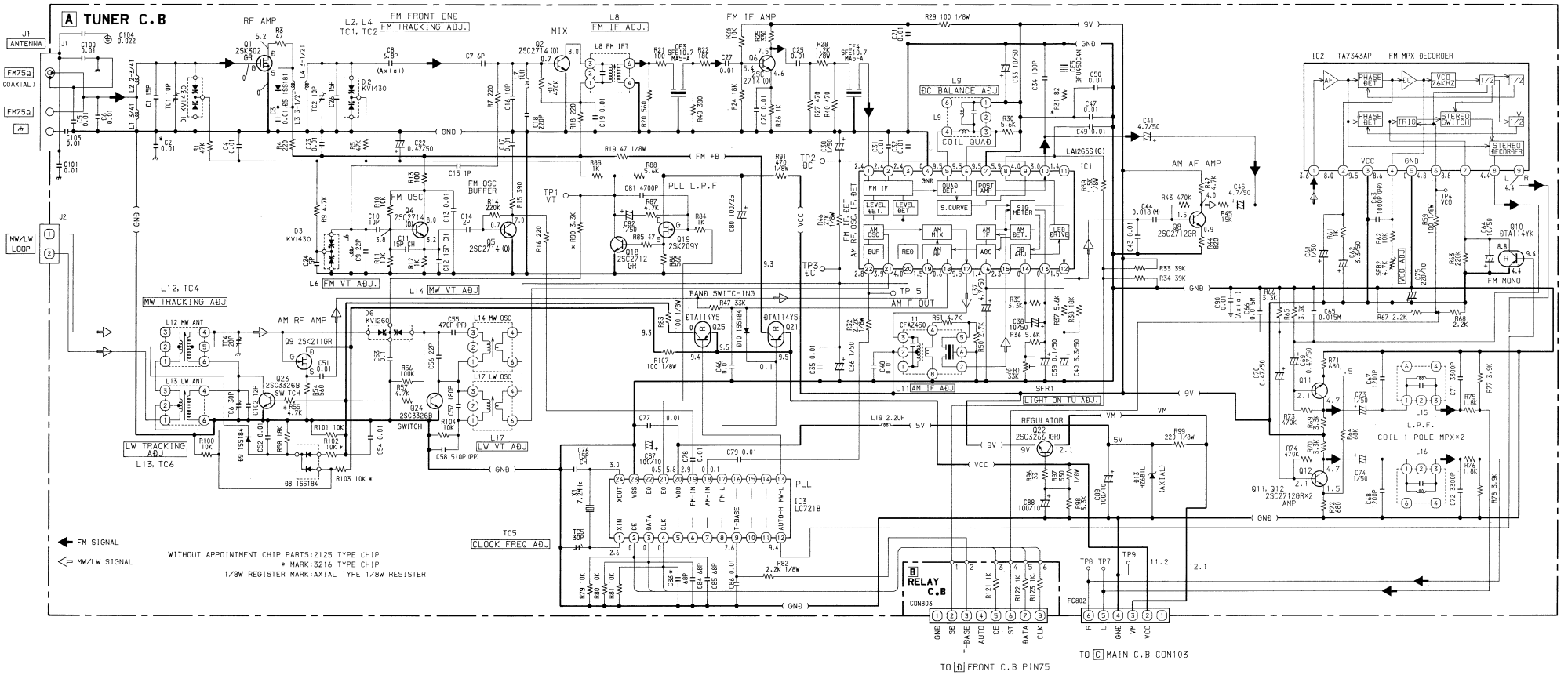
WIRING – 2 (RX – N55, TUNER : E, K, MODELS)



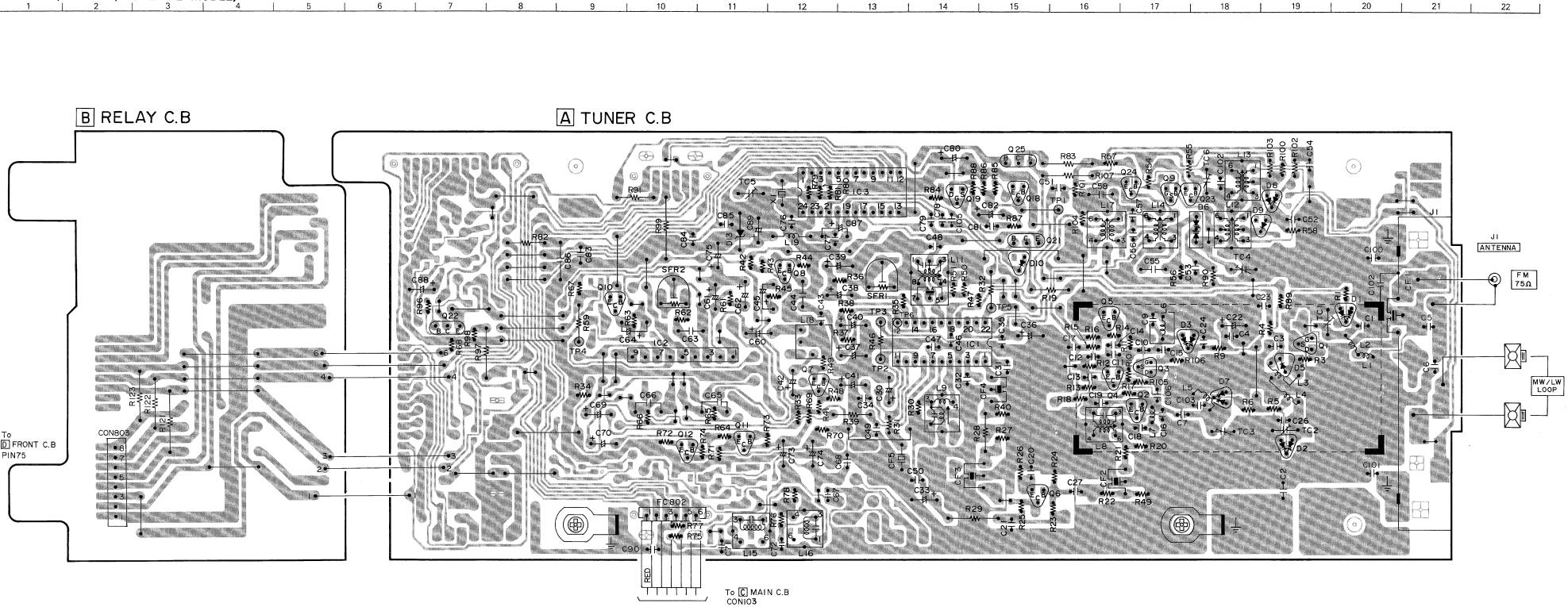
GRAPHIC SYMBOLS PRINTED CIRCUIT BOARD OF ELECT. CAP. ARE DESIGNED AS NEGATIVE POLE.

(プリント基板内のケミコンの極性表示はθ表示です。)

SCHEMATIC DIAGRAM – 2 (RX – N55, TUNER : E, K, MODELS)



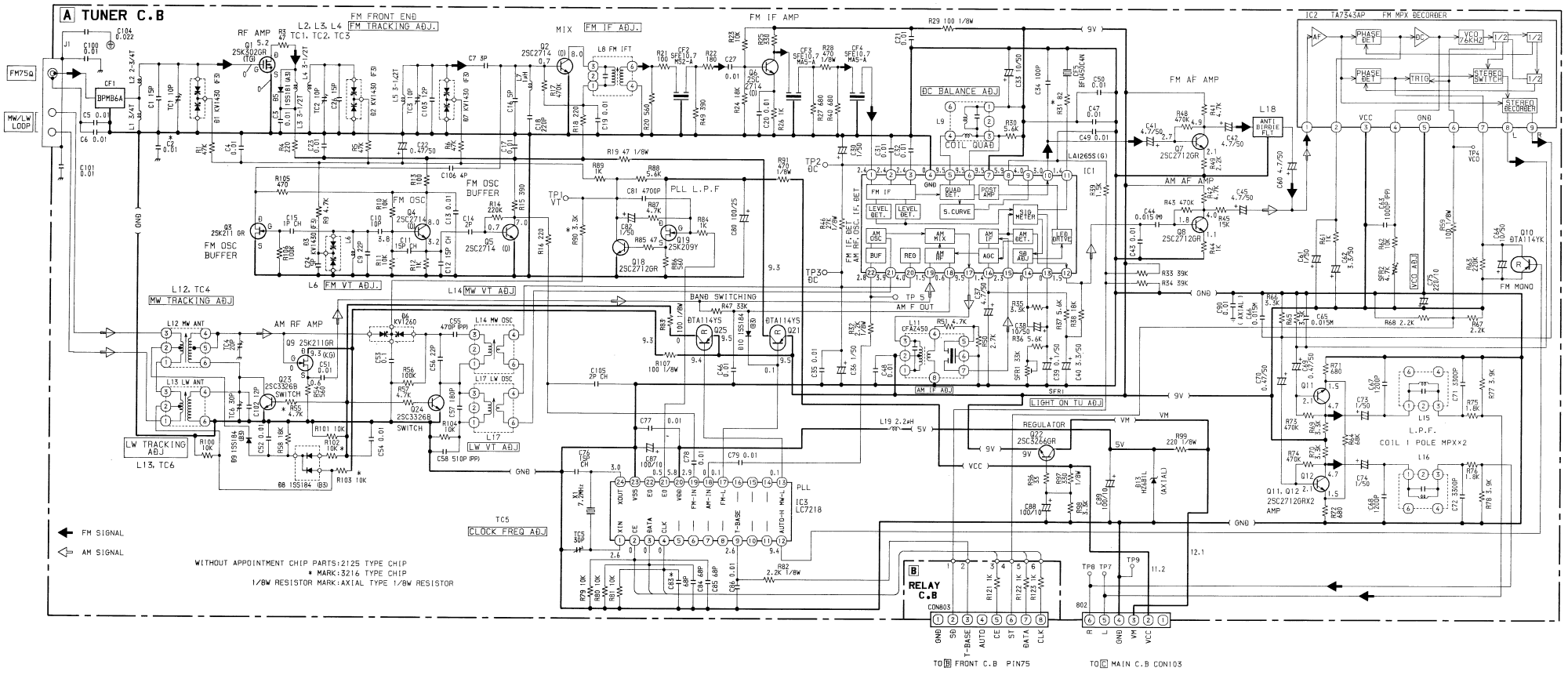
WIRING – 3 (RX – N55, TUNER : Z MODEL)



GRAPHIC SYMBOLS PRINTED CIRCUIT BOARD OF ELECT. CAP. ARE DESIGNED AS NEGATIVE POLE.

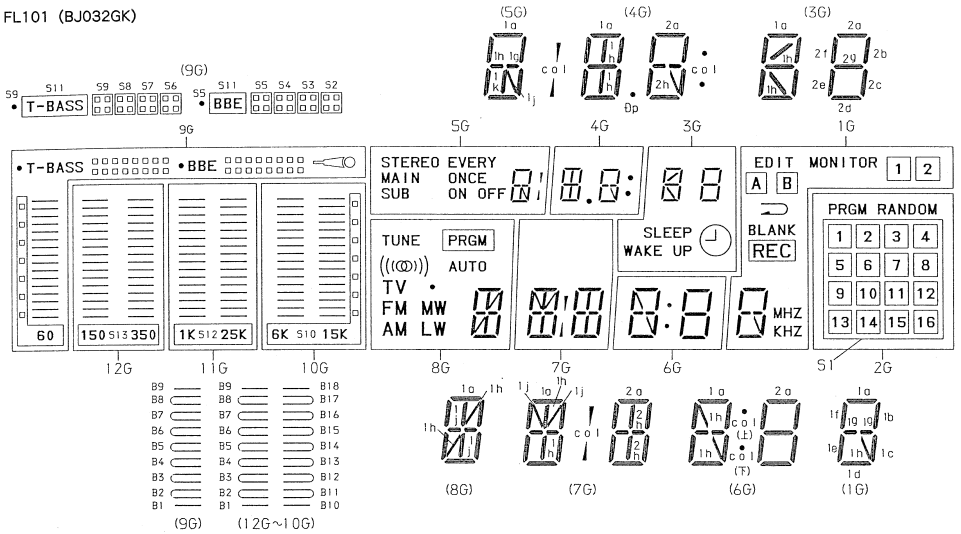
(プリント基板内のケミコンの極性表示は⊖表示です。)

SCHEMATIC DIAGRAM – 3 (RX – N55, TUNER : Z MODEL)



GRID ASSIGNMENT

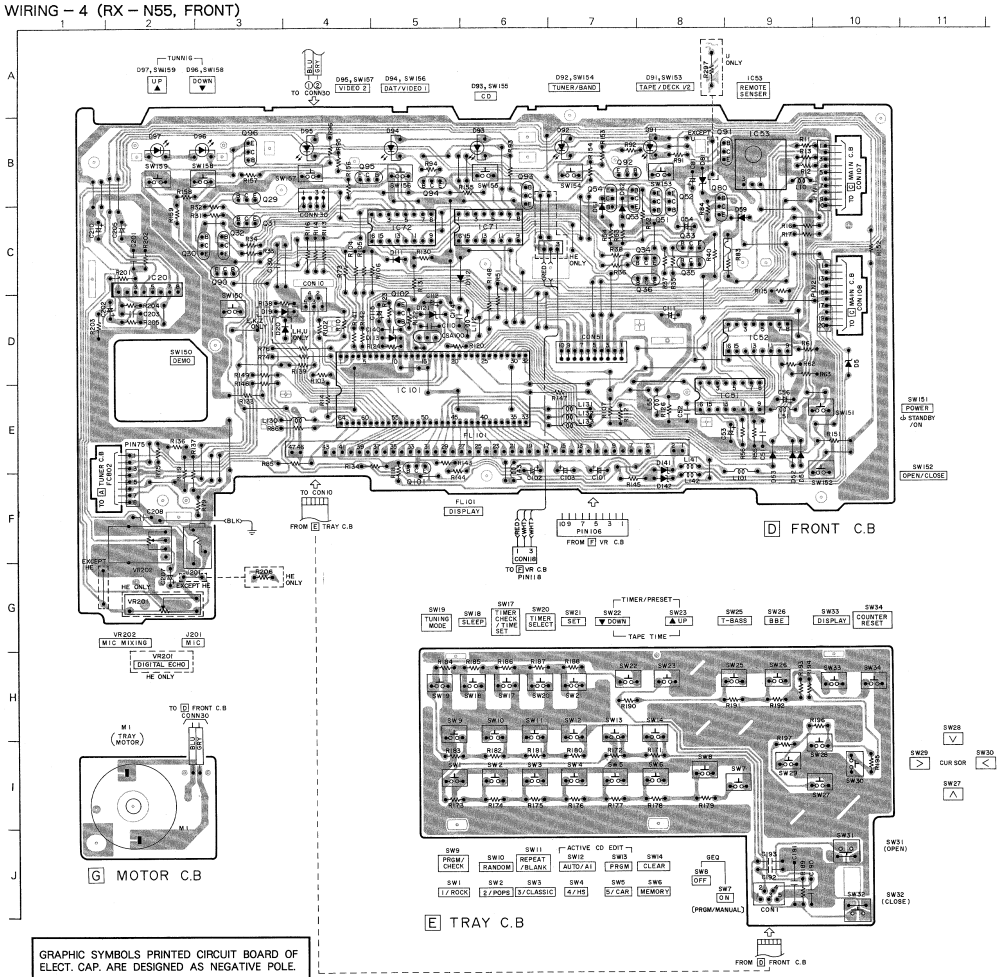
FL101 (BJ032GK)



ANODE CONNECTION

	12G	11G	10G	9G	8G	7G	6G	5G	4G	3G	2G	1G
P1	B9	B9	B9	B9	1a	1a	1a	1a	1a	1a	1	1a
P2	B18	B18	B18		1b	1b	1b	1b	1b	1b	2	1b
P3	B6	B6	B6	B6	1c	1c	1c	1c	1c	1c	7	1c
P4	B5	B5	B5	B5	1d	1d	1d	1d	1d	1d	9	1d
P5	B15	B15	B15	S4	1e	1e	1e	1e	1e	1e	8	1e
P6	B8	B8	B8	B8	1f	1f	1f	1f	1f	1f	3	1f
P7	B16	B16	B16	S3	1g	1g	1g	1g	1g	1g	6	1g
P8	B17	B17	B17	S2	1h	1h	1h	1h	1h	1h	4	1h
P9	B7	B7	B7	B7	1j	1j	col(上)	1j	Dp	WAKE UP	5	MHZ
P10	B14	B14	B14	S5	MW	col	col(下)	1k	col	SLEEP	10	KHZ
P11	B4	B4	B4	B4	LW	2a	2a	col	2a	2a	11	1
P12	B13	B13	B13	S6	AUTO	2b	2b	STEREO	2b	2b	12	2
P13	B11	B11	B11	S8		2c	2c	SUB	2c	2c	16	
P14	B10	B10	B10	S9	TV	2d	2d	ON	2d	2d	PRGM	A
P15	B1	B1	B1	B1	TUNE	2e	2e	OFF	2e	2e	RANDOM	B
P16	B3	B3	B3	B3	PRGM	2f	2f	EVERY	2f	2f	13	REC
P17	B2	B2	B2	B2	AM	2g	2g	ONCE	2g	2g	15	BLANK
P18	B12	B12	B12	S7	FM	21	—	MAIN	2h		14	EDIT
P19	—	—	—	—	O	—	—	—	—	—	—	—
P20	S13	S12	S10	S11	—	—	—	—	—	—	S1	MONITOR

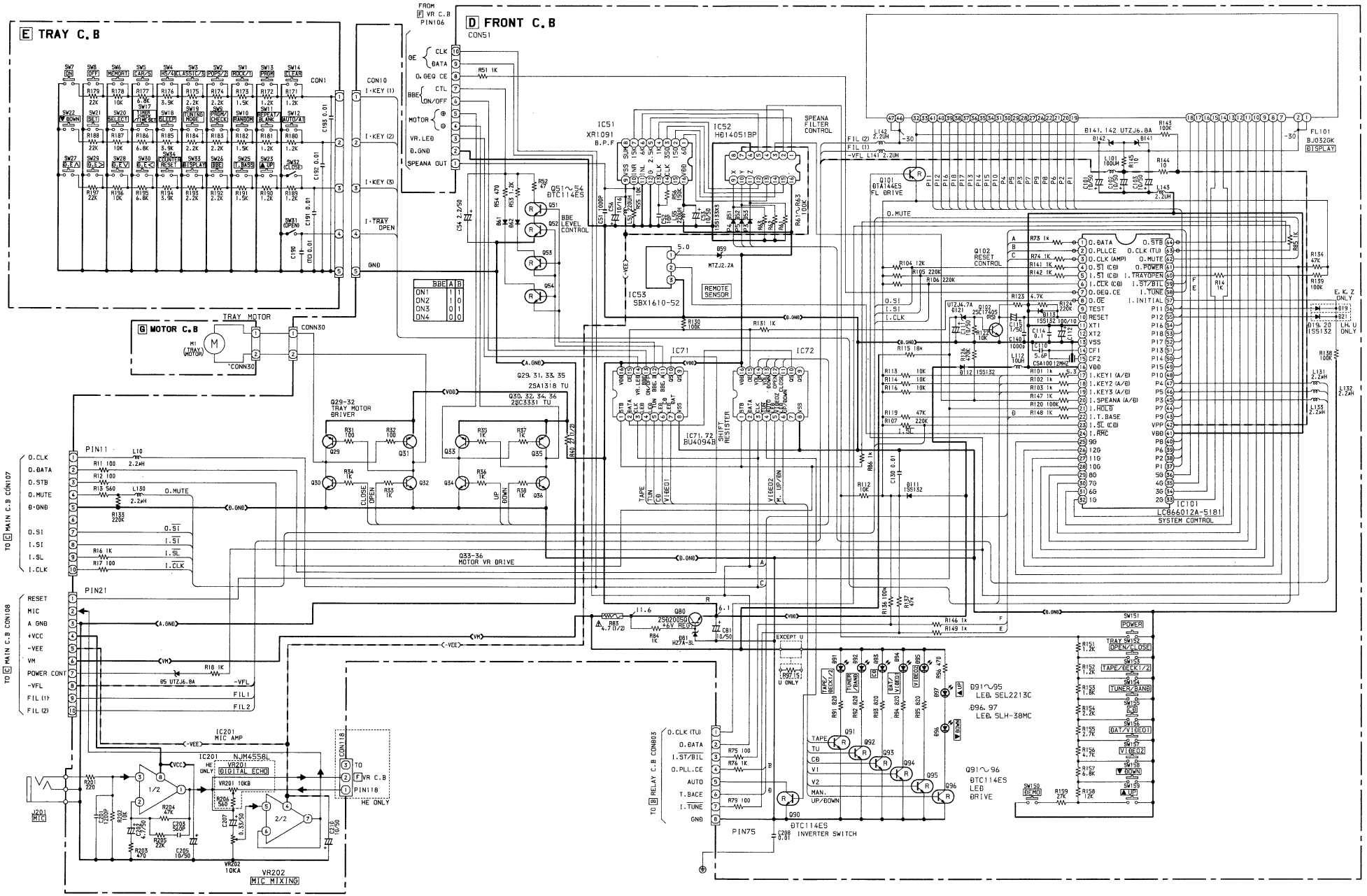
WIRING – 4 (RX – N55, FRONT)



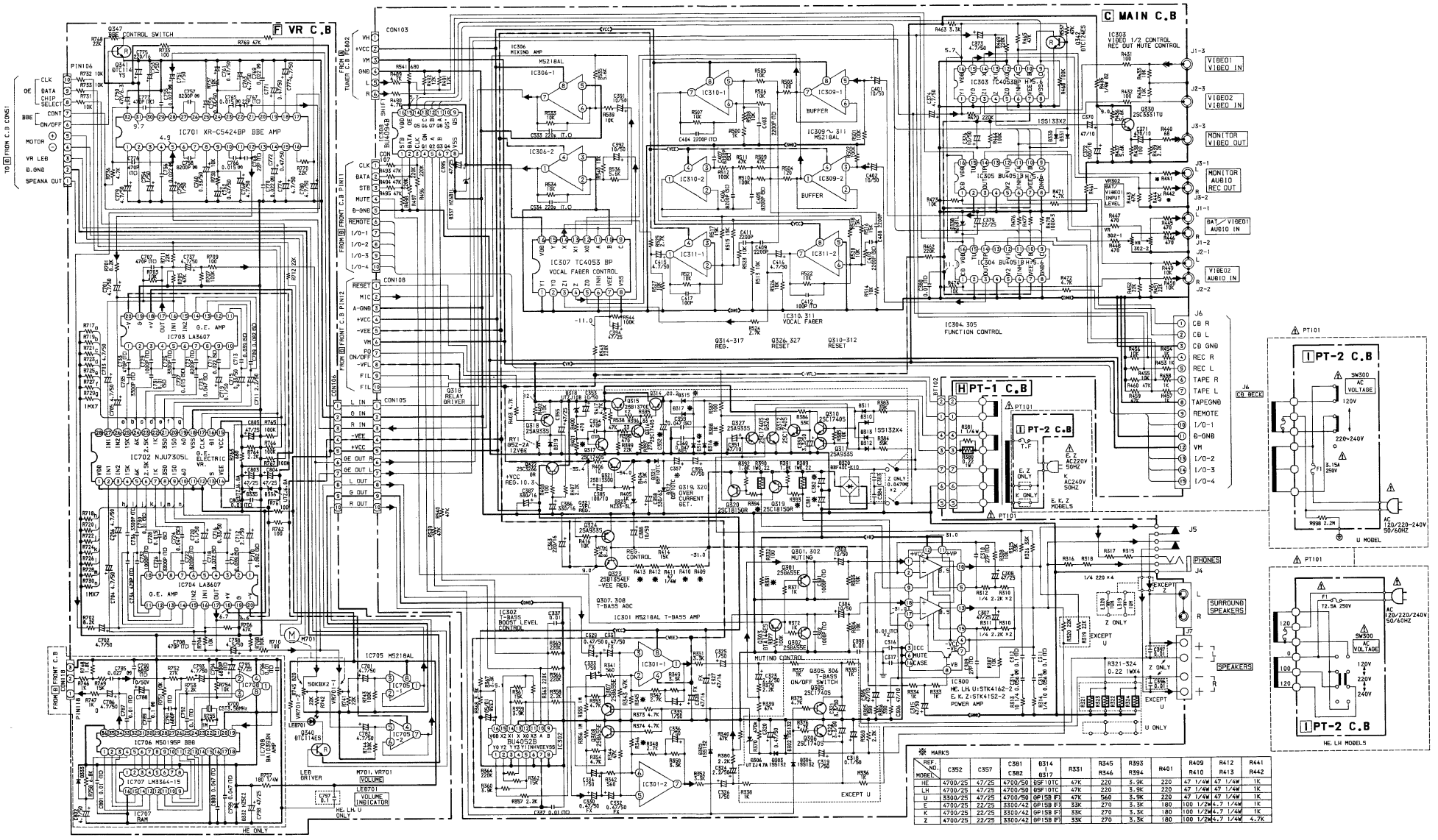
GRAPHIC SYMBOLS PRINTED CIRCUIT BOARD OF ELECT. CAP. ARE DESIGNED AS NEGATIVE POLE.

(プリント基板内のケミコンの極性表示はθ表示です。)

SCHEMATIC DIAGRAM – 4 (RX – N55, FRONT)

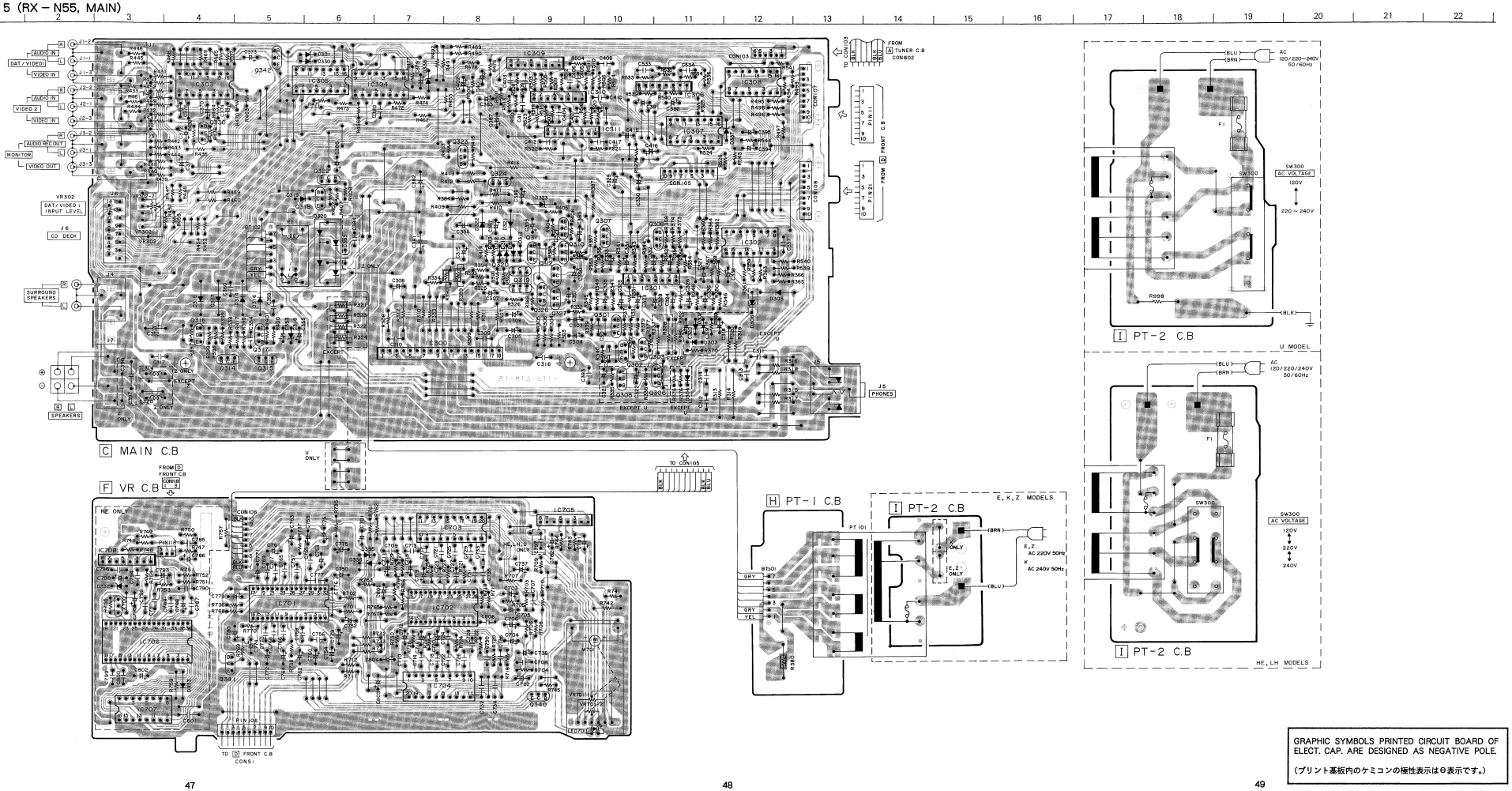


SCHEMATIC DIAGRAM – 5 (RX – N55, MAIN)



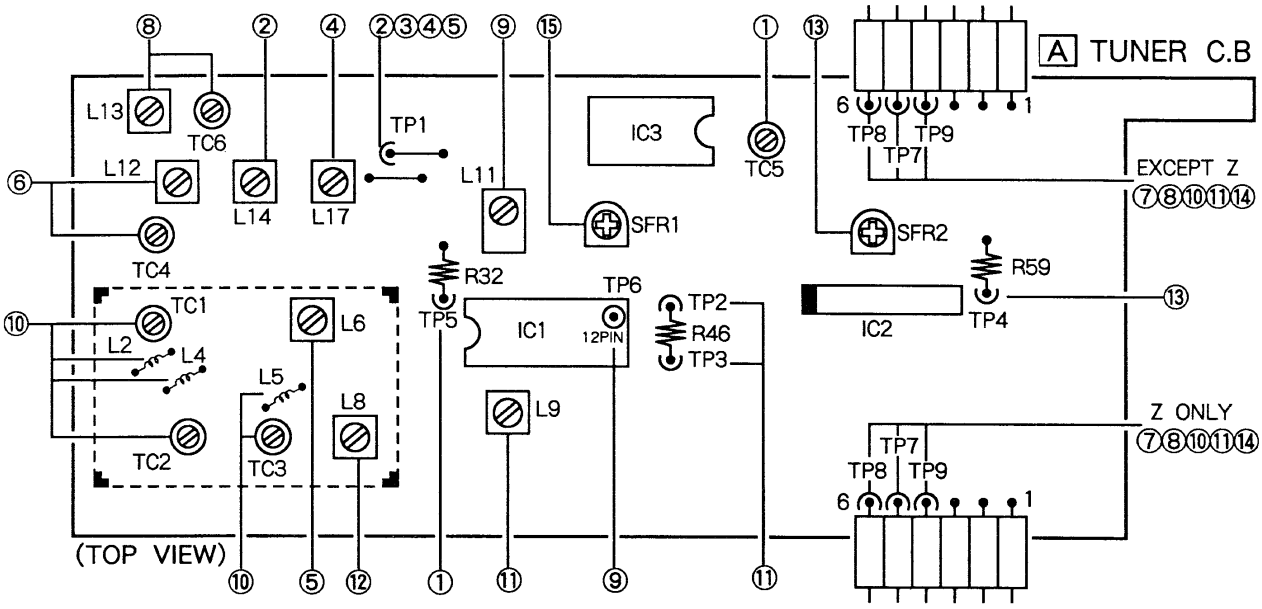
REF. NO. / MODEL	C352	C357	C381 C382	Q314 Q317	R331	R345 R346	R393 R394	R401	R409 R410	R412 R413	R441 R442
HE	4700/25	47/25	4700/50	6SF10TC	47K	220	3.9K	220	47 1/4W	47 1/4W	1K
LH	4700/25	47/25	4700/50	6SF10TC	47K	220	3.9K	220	47 1/4W	47 1/4W	1K
U	3300/25	47/25	4700/50	GP15B (F)	47K	560	3.9K	220	47 1/4W	47 1/4W	1K
E	4700/25	22/25	3300/42	GP15B (F)	33K	270	3.3K	180	100 1/2W	4.7 1/4W	1K
K	4700/25	22/25	3300/42	GP15B (F)	33K	270	3.3K	180	100 1/2W	4.7 1/4W	1K
Z	4700/25	22/25	3300/42	GP15B (F)	33K	270	3.3K	180	100 1/2W	4.7 1/4W	4.7K

WIRING – 5 (RX – N55, MAIN)



GRAPHIC SYMBOLS PRINTED CIRCUIT BOARD OF ELECT. CAP. ARE DESIGNED AS NEGATIVE POLE.

(プリント基板内のケミコンの極性表示はθ表示です。)



(TUNER SECTION)

1. Clock Adjustment
   Settings : • Test point : TP5
   • Adjustment location : TC5
   Method : Set to MW 1602kHz (HE, E, K, Z), 1710kHz (LH, U) and adjust so that the test point becomes 2052kHz ± 0.01kHz (HE, E, K, Z), 2160kHz ± 0.01kHz (LH, U)..

2. MW VT Adjustment (E, K, Z ONLY)
   Settings : • Test point : TP1
   • Adjustment location : L14
   Method : Set to MW 531kHz and adjust so that the test point becomes 1.1 ± 0.05V.

3. AM VT Check (HE, LH, U ONLY)
   Settings : • Test point : TP1
   Method : Set to MW 531kHz (HE), 530kHz (LH, U) and check so that the test point becomes 1.1 ± 0.2V.

4. LW VT Adjustment (E, K, Z ONLY)
   Settings : • Test point : TP1
   • Adjustment location : L17
   Method : Set to LW 144kHz and adjust so that the test point becomes 1.3V ± 0.05V.

5. FM VT Adjustment
   Settings : • Test point : TP1
   • Adjustment location : L6
   Method : Set to FM 108MHz and adjust L6 so that the test point becomes 9.0V ± 0.05V.

6. MW Tracking Adjustment (E, K, Z ONLY)
   L12 ····· 603kHz
   TC4 ····· 1404kHz

7. AM (MW) Tracking Check
   Settings : • Test point : TP7 (L ch)
   TP8 (R ch)
   TP9 (GND)
   Method : Set to MW 999kHz (HE, E, K, Z), 1000kHz (LH, U) and adjust to so that point become Less than 56dB (S/N 20dB).

8. LW Tracking Adjustment (E, K, Z ONLY)
   Settings : • Test point : TP7 (L ch)
   TP8 (R ch)
   TP9 (GND)
   L13 ····· 144kHz
   TC6 ····· 290kHz

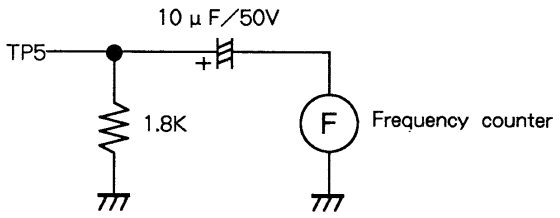
9. AM (MW) IF Adjustment
   Settings : • Test point : TP6
   L11 ····· 450kHz

10. FM Tracking Adjustment
    Settings : • Test point : TP7 (L ch)
    TP8 (R ch)
    TP9 (GND)
    TC1, TC2 ····· 108MHz (Except Z)
    TC1, TC2, TC3 ····· 108MHz (Z)
    L2, L4 ····· 87.5MHz (Except Z)
    L2, L4, L5 ····· 87.5MHz (Z)

11. DC Balance/MONO Distortion Adjustment
    Settings : • Test point : TP2, TP3 (DC Balance)
    TP7 (L ch)
    TP8 (R ch)
    TP9 (GND)
    (Distortion)
    • Adjustment location : L9
    • Input level : 60dB
    Method : Set to FM 98.0MHz and adjust L9 so that TP2 and TP3 output becomes 0V ± 0.02V. Next, adjust L9 so that the distortion becomes minimum (Less than 0.6%).

12. FM IF Adjustment
    L8 ..... 10.7MHz

13. FM VCO Adjustment
    Settings : • Test point : TP4
    • MODE SW : STEREO
    • Adjustment location : SFR2
    • Input level : 60dB
    Method : Connect a capacitor and a resistor as below. Set to FM 98.0MHz and adjust so that the frequency at test point becomes 38kHz ± 0.05kHz.



14. FM Separation Adjustment
    Settings : • Test point : TP7 (L ch)
    TP8 (R ch)
    TP9 (GND)
    Method : Set to FM 98.0MHz and check that the separation at test point becomes more than 27dB.

15. Light on tuning LED Adjustment
    Settings : • Adjustment location : SFR1
    • Input level : 18dB
    Method : Set to FM 98.0MHz and adjust TUNING LED to light on by SFR1. After that, LED goes out by 18 ± 2dB down.

<TUNER SECTION>
<FM SECTION>

IHF Sensitivity:	4 ± 4dB (Except Z)
(THD 3%)	8 ± 4dB (Z)
	(at 87.5MHz)
	2 ± 4dB (Except Z)
	6 ± 4dB (Z)
	(at 98.0, 108.0MHz)
S/N 50dB Quieting Sensitivity:	
(Except Z)	Less than 34dB
	(at 87.5, 98.0, 108.0MHz)
S/N 46dB Quieting Sensitivity:	
(Z)	Less than 38dB
	(at 87.5, 98.0, 108.0MHz)
Signal to Noise Ratio:	More than 65dB (Except Z)
	(at 98.0MHz)
	More than 60dB (Z)
	(at 98.0MHz)
Distortion:	Less than 0.8%
	(at 98.0MHz)
Stereo Separation:	More than 27dB (at 98.0MHz)
Intermediate Frequency:	10.7MHz

<AM (MW) SECTION>

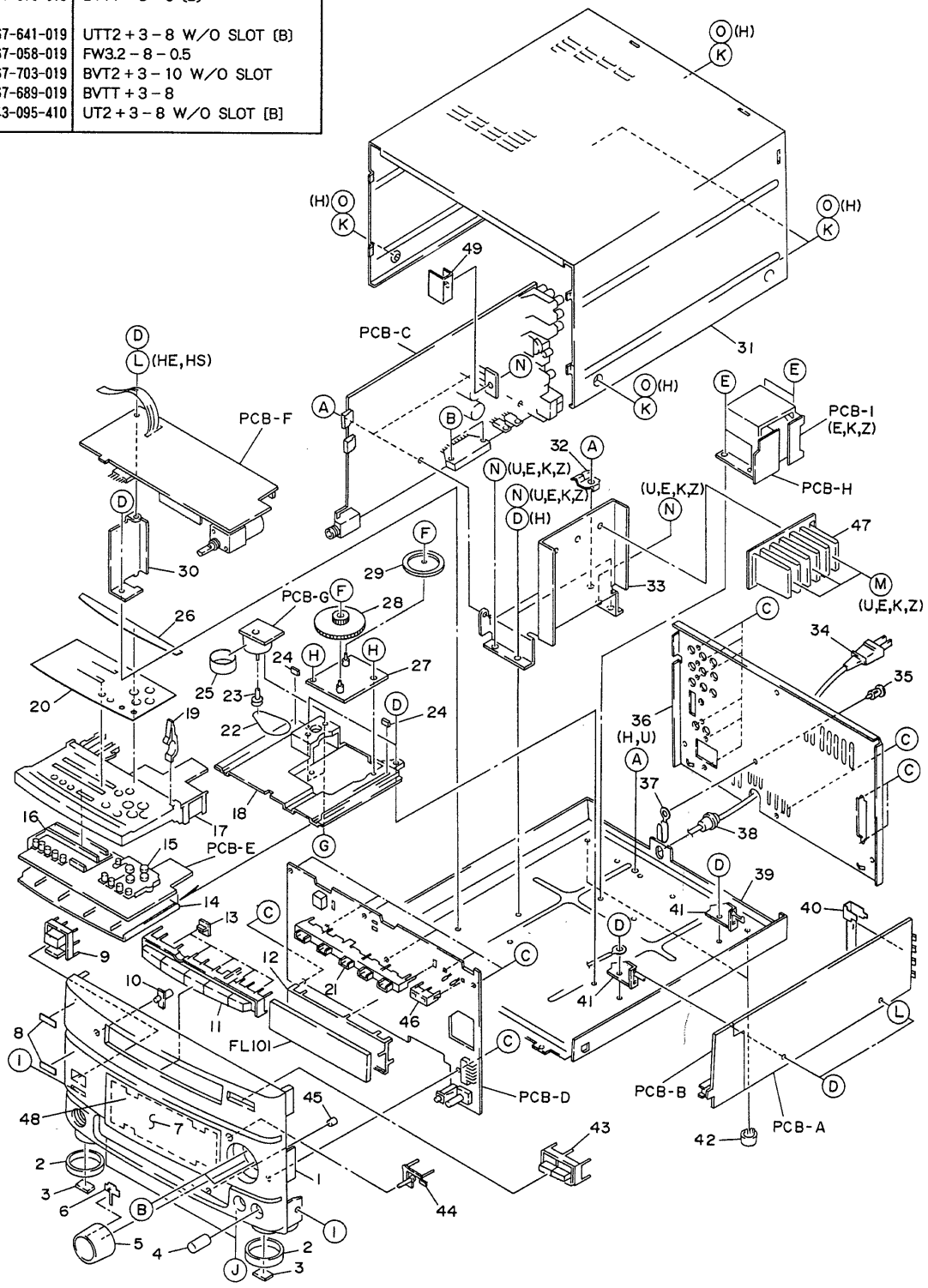
Sensitivity:	56 ±4dB
	[at 603kHz (HE, E, K, Z)]
	[at 600kHz (LH, U)]
	52 ± 4dB
	[at 999/1404kHz (HE, E, K, Z)]
	[at 1000/1400kHz (LH, U)]
Distortion:	Less than 1.6%
	[at 999kHz (HE, E, K, Z)]
	[at 1000kHz (LH, U)]
Intermediate Frequency:	450kHz

<LW SECTION> (E, K, Z ONLY)

Sensitivity:	63 ± 5dB (at 153kHz)
(S/N 20dB)	60 ± 5dB (at 198kHz)
	60 ± 5dB (at 290kHz)
Signal to Noise Ratio:	More than 45dB (at 198kHz)
Distortion:	Less than 1.2% (at 198kHz)
Intermediate Frequency:	450kHz

EXPLODED VIEW (RX – N55)

REF. NO.	PART NO.	DESCRIPTION
A	87-067-579-019	BVT2 + 3 – 8 W/O SLOT
B	87-067-581-019	BVT2 + 3 – 15 W/O SLOT
C	87-067-761-019	BVT2 + 3 – 10 (B)
D	87-067-688-019	BVTT + 3 – 6
E	87-067-585-019	BVTT + 4 – 6
F	87-067-912-019	PW, 2.68 – 4.15 – 0.4 CUT
G	87-261-071-419	V + 2.6 – 4
H	87-067-584-019	BVT2 + 3 – 6 W/O SLOT
I	87-591-095-419	QIT + 3 – 8
J	87-067-673-019	BVTT + 3 – 8 (B)
K	87-067-641-019	UTT2 + 3 – 8 W/O SLOT (B)
L	87-067-058-019	FW3.2 – 8 – 0.5
M	87-067-703-019	BVT2 + 3 – 10 W/O SLOT
N	87-067-689-019	BVTT + 3 – 8
O	87-743-095-410	UT2 + 3 – 8 W/O SLOT (B)



MECHANICAL PARTS LIST (RX – N55)

PART NO. CHANGED TO	REF. NO.	PART NO.	DESCRIPTION	COMMON MODEL	Q'TY
	1	★81-MT3-004-019	CABINET, FRONT (B) (H, HE)	※	1
	1	★81-MT3-099-019	CABINET, FRONT (B) (HS)	※	1
	1	★81-MT3-022-019	CABINET, FRONT (B) (LH, E, K, Z)	※	1
	1	★81-MT3-049-019	CABINET, FRONT (N) (HE)	※	1
	1	★81-MT3-107-019	CABINET, FRONT (N) (LH)	※	1
	1	★81-MT3-087-019	CABINET, FRONT (N) (U)	※	1
	1	★81-MT3-066-119	CABINET, FRONT (N) (E, K, Z)	※	1
	2	★81-MT3-017-019	FOOT, RING (B)	※	2
	2	★81-MT3-052-019	FOOT, RING (N)	※	2
	3	★80-VT1-202-019	FELT, 12.5 – 15.5 – 2		2
	4	★80-MT3-014-019	KNOB, MIC (B)		1
	4	★81-MT3-057-019	KNOB, MIC (N)	※	1
	5	★81-MT3-068-119	VOLUME KNOB ASSY (B)	※	1
	5	★81-MT3-065-119	VOLUME KNOB ASSY (N) (HE, LH)	※	1
	5	★81-MT3-091-019	VOLUME KNOB ASSY (N) (U)	※	1
	5	★81-MT3-095-019	VOLUME KNOB ASSY (N) (E, K, Z)	※	1
	6	★81-MT3-010-019	INDICATION, VOLUME	※	1
	7	★81-MT3-013-019	WINDOW, DISPLAY	※	1
	8	★81-MX4-032-019	BADGE, AIWA		2
	9	★81-MT3-008-019	KEY, POWER (B) (EXCEPT FOR HS)	※	1
	9	★81-MT3-102-019	KEY, POWER (B) (HS)	※	1
	9	★81-MT3-054-019	KEY, POWER (N) (HE, LH)	※	1
	9	★81-MT3-090-019	KEY, POWER (N) (U, E, K, Z)	※	1
	10	★81-MT3-015-019	LENS, SENSOR	※	1
	11	★81-MT3-070-019	KEY, FUNCTION (EXCEPT FOR HS, U)	※	1
	11	★81-MT3-101-019	KEY, FUNCTION (HS)	※	1
	11	★81-MT3-089-019	KEY, FUNCTION (U)	※	1
	12	★80-VP1-208-110	GUIDE, FL		1
	13	★81-MT3-014-019	INDICATION, FUNCTION	※	5
	14	★81-MT3-204-019	PLATE, BOTTOM (B)	※	1
	14	★81-MT3-059-019	PLATE, BOTTOM (N)	※	1
	15	★81-MT3-012-019	KEY, GE (B)	※	1
	15	★81-MT3-063-019	KEY, GE (N)	※	1
	16	★81-MT3-011-019	KEY, TIMER (B)	※	1
	16	★81-MT3-062-019	KEY, TIMER (N)	※	1
	17	★81-MT3-036-019	CABINET, TRAY (B) (H, HE, LH)	※	1
	17	★81-MT3-100-019	CABINET, TRAY (B) (HS)	※	1
	17	★81-MT3-073-019	CABINET, TRAY (B) (E, K, Z)	※	1
	17	★81-MT3-051-019	CABINET, TRAY (N) (HE, LH)	※	1
	17	★81-MT3-088-019	CABINET, TRAY (N) (U, E, K, Z)	※	1
	18	★81-MT3-205-019	HOLDER, TRAY	※	1
	19	★81-MT3-211-019	LEVER, OPEN	※	1
	20	★81-MT3-037-019	PLATE, TRAY (B) (EXCEPT FOR HS)	※	1
	20	★81-MT3-103-019	PLATE, TRAY (B) (HS)	※	1
	20	★81-MT3-064-019	PLATE, TRAY (N)	※	1
	21	★81-MT3-212-019	GUIDE, LED 1	※	1
	22	★81-MT3-219-010	BELT, SQ1.2	※	1
	23	★89-VW5-206-019	PULLEY, MOTOR		1
	24	★81-MT3-220-019	CUSHION, G 2 – 5 – 3.5	※	2
	25	★82-110-647-010	PLATE, SHIELD		1

PART NO. CHANGED TO	REF. NO.	PART NO.	DESCRIPTION	COMMON MODEL	Q'TY
	26	★81-MT3-034-019	PLATE, TRAY SUB (H)	※	1
	26	★81-MT3-048-019	PLATE, TRAY SUB (EXCEPT FOR H)	※	1
	27	★81-MT3-206-019	LOADING HOLDER ASSY	※	1
	28	★81-MT3-210-010	GEAR	※	1
	29	★89-VW5-204-119	PULLEY, ROADING		1
	30	---	HOLDER, PWB		1
	31	★81-MT3-019-119	CABINET, STEEL (B) (H, HE, LH, HS)	※	1
	31	★81-MT3-069-018	CABINET, STEEL (B) (E, K, Z)	※	1
	31	★81-MT3-050-119	CABINET, STEEL (N) (HE, LH, U)	※	1
	31	★81-MT3-082-018	CABINET, STEEL (N) (E, K, Z)	※	1
	32	---	HOLDER, IC 2		1
	33	---	HEAT SINK		1
	34	★82-187-797-019	CORD, AC (H, HE, E, Z)		1
	34	★87-034-749-019	CORD, AC (LH)		1
	34	★87-034-584-019	CORD, AC (U)		1
	34	★87-034-592-018	CORD, AC (K)		1
	34	★81-MX4-736-019	CORD, AC (HS)		1
	35	★87-084-077-019	RIVET, NYLON DIA 3.5 – 4.5		1
	36	★81-MT3-098-019	PANEL, REAR (B) (H)	※	1
	36	★81-MT3-038-119	PANEL, REAR (B) (HE)	※	1
	36	★81-MT3-097-019	PANEL, REAR (B) (HS)	※	1
	36	★81-MT3-039-119	PANEL, REAR (B) (LH)	※	1
	36	★81-MT3-083-019	PANEL, REAR (B) (E)	※	1
	36	★81-MT3-024-019	PANEL, REAR (B) (EE)	※	1
	36	★81-MT3-025-019	PANEL, REAR (B) (K)	※	1
	36	★81-MT3-026-019	PANEL, REAR (B) (Z)	※	1
	36	★81-MT3-040-019	PANEL, REAR (N) (HE)	※	1
	36	★81-MT3-108-019	PANEL, REAR (N) (LH)	※	1
	36	★81-MT3-086-019	PANEL, REAR (N) (U)	※	1
	36	★81-MT3-078-019	PANEL, REAR (N) (E)	※	1
	36	★81-MT3-079-019	PANEL, REAR (N) (K)	※	1
	36	★81-MT3-077-019	PANEL, REAR (N) (Z)	※	1
	37	---	BINDER, WIRE		1
	38	★87-085-185-010	BUSHING, AC CORD (H, HE, E, K, Z)		1
	38	★87-085-189-010	BUSHING, AC CORD (HS, U)		1
	38	★87-085-184-010	BUSHING, AC CORD (LH)		1
	39	---	CHASSIS, MAIN		1
	40	★81-653-638-110	EARTH, ANTENNA TERMINAL (H, HE, HS, LH, U)		1
	40	★81-653-648-010	EARTH, ANTENNA TERMINAL PAL (E, K, Z)		1
	41	---	HOLDER, TU		2
	42	★87-085-213-019	FOOT, H12.5		2
	43	★81-MT3-016-010	KEY, PRESET	※	1
	44	★81-MT3-032-019	KEY, DEMO (B)	※	1
	44	★81-MT3-061-019	KEY, DEMO (N)	※	1
	45	★81-MT3-223-010	CUSHION, G STOPPER	※	1
	46	★81-MT3-213-019	GUIDE, LED 2	※	1
	47	---	HEAT SINK SUB (U, E, K, Z)	※	1
	48	★81-MT3-058-019	SHEET, WINDOW (N)	※	1
	49	---	HEAT SINK		1

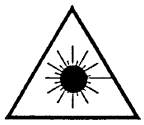
MODEL NO.

FD – N55

PROTECTION OF EYES FROM LASER BEAM 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.

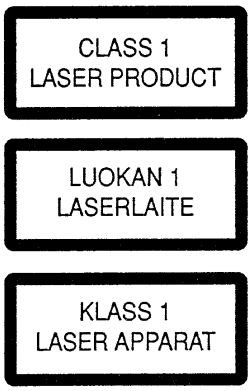
VAROITUS!
Laiteen Käyttäminen muulla kuin tässä käyttöohjeessa mainitulla tavalla saattaa altistaa käyt-täjän turvallisuusluokan 1 ylittävälle näkymättömälle lasersäteilylle.

VARNING!
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.

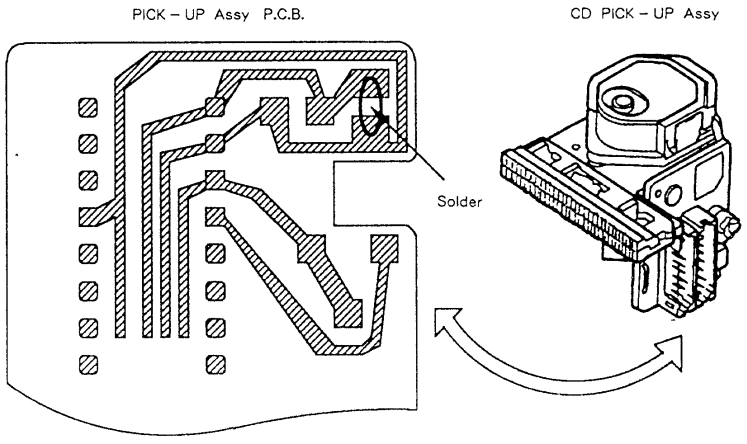
This Compact Disc player is classified as a CLASS 1 LASER product.
The CLASS 1 LASER PRODUCT label is located on the rear exterior.



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 care the clothes do not touch the diode.

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



ELECTRICAL MAIN PARTS LIST (FD – N55)

REF. NO.	PART NO.	DESCRIPTION
===IC===		
	87-002-247-019	IC, BU4052B
	87-002-282-019	IC, BU4066B
	87-002-444-019	IC, BU4094B
	87-020-793-010	IC, CXA1081M
	87-020-794-010	IC, CXA1082BQ
	87-001-908-010	IC, CXA1332S(U, E, K, Z)
	87-001-944-010	IC, CXD1167Q
	87-002-211-019	IC, GP1F32T(DIGITAL OUT)
	87-001-874-019	IC, HA12134A(HE, LH)
	87-002-394-019	IC, LB1641
	87-001-334-019	IC, LB9051A
	81-MV3-612-010	IC, LC67216A-4911
	87-027-895-010	IC, M5218AL
	87-020-758-019	IC, NJM2068SD
	87-001-607-019	IC, NJM4558M
	87-002-756-010	IC, SM5870BS
	87-027-827-019	IC, TC4069UBP
	87-001-583-019	IC, TC7S00F
===TRANSISTOR===		
	89-503-735-019	FET, 2SK373GR
	89-111-624-019	TRANSISTOR, 2SA1162Y(HE, LH, E, Z)
	89-112-965-019	TRANSISTOR, 2SA1296GR
	89-113-187-019	TRANSISTOR, 2SA1318TU
	87-026-463-019	TRANSISTOR, 2SA933S(RS)
	89-109-521-019	TRANSISTOR, 2SA952K
	89-213-542-019	TRANSISTOR, 2SB1354E, F
	87-026-462-019	TRANSISTOR, 2SC1740S(RS)
	89-318-155-019	TRANSISTOR, 2SC1815GR
	89-320-011-019	TRANSISTOR, 2SC2001K
	89-327-124-019	TRANSISTOR, 2SC2712Y
	89-332-665-019	TRANSISTOR, 2SC3266GR
	89-406-555-019	TRANSISTOR, 2SD655E
	87-026-269-019	TRANSISTOR, DTA114ES
	87-026-233-019	TRANSISTOR, DTA114TK
	87-026-214-019	TRANSISTOR, DTA114YS
	87-026-483-019	TRANSISTOR, DTA123JS
	87-026-235-019	TRANSISTOR, DTC114EK(HE, LH, E, Z)
	87-026-237-019	TRANSISTOR, DTC124XK
	87-026-224-019	TRANSISTOR, DTC143XK
	87-026-210-019	TRANSISTOR, DTC144EK
	87-026-218-019	TRANSISTOR, DTC144ES
===DIODE===		
	87-020-027-019	DIODE, CHIP 1SS184(HE, LH, E, Z)
	87-020-339-019	DIODE, CHIP 1SS226
	87-001-559-019	DIODE, 1SS131
	87-020-691-019	DIODE, 1SS132(K)
	87-020-123-019	DIODE, DS446
	87-002-654-019	DIODE, S5566B
	87-002-646-019	DIODE, ZENER HZ5C1
	87-027-475-019	DIODE, ZENER HZ6B1
	87-027-332-019	DIODE, ZENER HZ6B1L
	87-027-703-019	DIODE, ZENER HZ7A1L
	87-002-645-019	DIODE, ZENER HZ9A1L
	87-001-914-019	DIODE, ZENER UTZJ6.2B
===MAIN CIRCUIT BOARD SECTION===		
C1	★87-018-134-019	CAP, CERA-SOL U 0.01-16 Y(E, Z)
C2	★87-018-134-019	CAP, CERA-SOL U 0.01-16 Y(E, Z)
C101	★87-018-126-019	CAP, CERA-SOL U 390P-50 B
C102	★87-018-126-019	CAP, CERA-SOL U 390P-50 B
C103	★87-018-115-019	CAP, CERA-SOL U 47P-50 SL
C104	★87-018-115-019	CAP, CERA-SOL U 47P-50 SL
C109	★87-018-121-019	CAP, CERA-SOL U 150P-50 B
C110	★87-018-121-019	CAP, CERA-SOL U 150P-50 B
C111	★87-010-404-019	CAP, ELECT 4.7-50 SME
C112	★87-010-404-019	CAP, ELECT 4.7-50 SME
C113	★87-010-404-019	CAP, ELECT 4.7-50 SME
C114	★87-010-404-019	CAP, ELECT 4.7-50 SME
C115	★87-010-101-019	CAP, ELECT 220-16 SME
C116	★87-018-134-019	CAP, CERA-SOL U 0.01-16 Y
C117	★87-018-134-019	CAP, CERA-SOL U 0.01-16 Y
C201	★87-018-126-019	CAP, CERA-SOL U 390P-50 B
C202	★87-018-126-019	CAP, CERA-SOL U 390P-50 B
C203	★87-018-115-019	CAP, CERA-SOL U 47P-50 SL
C204	★87-018-115-019	CAP, CERA-SOL U 47P-50 SL
C207	★87-018-123-019	CAP, CERA-SOL U 220P-50 B
C208	★87-018-123-019	CAP, CERA-SOL U 220P-50 B
C211	★87-010-404-019	CAP, ELECT 4.7-50 SME
C212	★87-010-404-019	CAP, ELECT 4.7-50 SME
C213	★87-010-101-019	CAP, ELECT 220-16 SME
C214	★87-018-134-019	CAP, CERA-SOL U 0.01-16 Y
C215	★87-018-134-019	CAP, CERA-SOL U 0.01-16 Y
C251	★87-018-133-019	CAP, CERA-SOL U 4700P-16 X
C252	★87-018-100-019	CAP, CERA-SOL U 4.7P-50 SL
C253	★87-018-132-019	CAP, CERA-SOL U 2200P-16 X
C255	★87-018-121-019	CAP, CERA-SOL U 150P-50 B
C256	★87-010-374-019	CAP, ELECT 47-10
C257	★87-010-401-019	CAP, ELECT 1-50 SME
C258	★87-018-100-019	CAP, CERA-SOL U 4.7P-50 SL
C259	★87-018-131-019	CAP, CERA-SOL U 1000P-50 B
C301	★87-018-119-019	CAP, CERA-SOL U 100P-50 B
C302	★87-018-119-019	CAP, CERA-SOL U 100P-50 B
C303	★87-018-198-019	CAP, CERA-SOL U 2700P-16 X
C304	★87-018-198-019	CAP, CERA-SOL U 2700P-16 X
C305	★87-010-404-019	CAP, ELECT 4.7-50 SME
C306	★87-010-404-019	CAP, ELECT 4.7-50 SME
C323	★87-018-125-019	CAP, CERA-SOL U 330P-50B
C324	★87-018-125-019	CAP, CERA-SOL U 330P-50B
C401	★87-018-123-019	CAP, CERA-SOL U 220P-50 B
C402	★87-018-123-019	CAP, CERA-SOL U 220P-50 B
C409	★87-010-402-019	CAP, ELECT 2.2-50 SME
C411	★87-010-221-019	CAP, ELECT 470-10
C451	★87-018-131-019	CAP, CERA-SOL U 1000P-50 B
C453	★87-018-119-019	CAP, CERA-SOL U 100P-50 B
C454	★87-018-119-019	CAP, CERA-SOL U 100P-50 B
C501	★87-018-195-019	CAP, CERA-SOL U 1200P-16 X(HE, LH)
C501	★87-018-128-019	CAP, CERA-SOL U 560P-50 B (U, E, K, Z)
C502	★87-018-195-019	CAP, CERA-SOL U 1200P-16 X(HE, LH)
C502	★87-018-128-019	CAP, CERA-SOL U 560P-50 B (U, E, K, Z)
C503	★87-018-132-019	CAP, CERA-SOL U 2200P-16 X
C504	★87-018-132-019	CAP, CERA-SOL U 2200P-16 X
C505	★87-010-404-019	CAP, ELECT 4.7-50 SME
C506	★87-010-404-019	CAP, ELECT 4.7-50 SME
C511	★87-010-545-019	CAP, ELECT 0.22-50 SME(HE, LH)
C511	★87-010-825-019	CAP, ELECT 0.56-50 SME(U, E, K, Z)
C512	★87-010-545-019	CAP, ELECT 0.22-50 SME(HE, LH)
C512	★87-010-825-019	CAP, ELECT 0.56-50 SME(U, E, K, Z)
C513	★87-010-546-019	CAP, ELECT 0.33-50 SME(U, E, K, Z)
C514	★87-010-546-019	CAP, ELECT 0.33-50 SME(U, E, K, Z)
C515	★87-010-404-019	CAP, ELECT 4.7-50 SME
C516	★87-010-404-019	CAP, ELECT 4.7-50 SME
C517	★87-010-371-019	CAP, ELECT 470-6.3
C518	★87-010-401-019	CAP, ELECT 1-50 SME(HE, LH)
C518	★87-010-101-019	CAP, ELECT 220-16 SME(U, E, K, Z)
C519	★87-010-404-019	CAP, ELECT 4.7-50 SME
C520	★87-010-404-019	CAP, ELECT 4.7-50 SME
C521	★87-018-195-019	CAP, CERA-SOL U 1200P-16 X (U, E, K, Z)
C522	★87-018-195-019	CAP, CERA-SOL U 1200P-16 X (U, E, K, Z)

REF. NO.	PART NO.	DESCRIPTION
C523	★87-010-382-019	CAP, ELECT 22-25 SME(U, E, K, Z)
C601	★87-010-404-019	CAP, ELECT 4. 7-50 SME
C602	★87-010-381-019	CAP, ELECT 330-16 SME
C603	★87-010-101-019	CAP, ELECT 220-16 SME
C604	★87-010-237-019	CAP, ELECT 1000-16
C801	★87-010-371-019	CAP, ELECT 470-6. 3
C802	★87-010-404-019	CAP, ELECT 4. 7-50 SME
C803	★87-018-205-019	CAP, CERA-SOL U 0. 022-25 F
C804	★87-010-382-019	CAP, ELECT 22-25 SME
C805	★87-018-205-019	CAP, CERA-SOL U 0. 022-25 F
C806	★87-010-400-019	CAP, ELECT 0. 47-50 SME
C809	★87-010-546-019	CAP, ELECT 0. 33-50 SME
C901	★87-018-205-019	CAP, CERA-SOL U 0. 022-25 F
C902	★87-018-134-019	CAP, CERA-SOL U 0. 01-16 Y
C951	★87-010-263-019	CAP, ELECT 100-10(HE, LH)
CF801	★89-MX1-704-019	CERA LOCK(MU)3. 9MHZ
EM101	★87-008-372-019	FILTER, EMI BL OIRNI
EM102	★87-008-372-019	FILTER, EMI BL OIRNI(E, K, Z)
⚠FR601	87-029-098-019	RES, FUSE 47-1/2W
⚠FR701	87-029-019-019	RES, FUSE 2. 2-1/2W
L301	★87-005-525-019	COIL, 22MMH-J
L302	★87-005-525-019	COIL, 22MMH-J
L303	★87-003-131-019	COIL, 10MMH J
L304	★87-003-131-019	COIL, 10MMH J
L305	★87-003-123-019	COIL, 2. 2MMH J
L306	★87-003-123-019	COIL, 2. 2MMH J
L307	★87-005-130-019	COIL, 10UH(U, E, K, Z)
L308	★87-005-130-019	COIL, 10UH(U, E, K, Z)
L401	80-VW1-605-110	COIL, OSC BIAS 108K
L601	★87-003-060-019	COIL, 12UH
R405	★87-025-471-019	RES, NF 4. 7-1/4W J
SFR101	★87-024-349-019	SFR, 1K
SFR102	★87-024-349-019	SFR, 1K
SFR201	★87-024-349-019	SFR, 1K
SFR202	★87-024-349-019	SFR, 1K
SFR301	★87-024-353-019	SFR, 10K
SFR302	★87-024-353-019	SFR, 10K
SFR401	★87-024-356-019	SFR, 47K
SFR402	★87-024-356-019	SFR, 47K

===CD MAIN CIRCUIT BOARD SECTION===

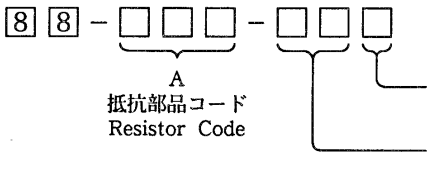
C2	★87-010-146-019	CAP, CHIP S 2P-50 CH
C3	★87-010-154-019	CAP, CHIP S 10P-50 CH
C4	★87-010-263-019	CAP, ELECT 100-10
C5	★87-010-178-019	CAP, CHIP S 1000P-50 B
C6	★87-010-382-019	CAP, ELECT 22-25 SME
C7	★87-010-197-019	CAP, CHIP S 0. 01-25 B
C8	★87-010-248-019	CAP, ELECT 220-10 SME
C9	★87-010-193-019	CAP, CHIP S 0. 033-25 F
C10	★87-010-188-019	CAP, CHIP S 6800P-50 B
C11	★87-010-198-019	CAP, CHIP S 0. 022-25 B
C12	★87-010-193-019	CAP, CHIP S 0. 033-25 F
C13	★87-010-193-019	CAP, CHIP S 0. 033-25 F
C14	★87-010-197-019	CAP, CHIP S 0. 01-25 B
C15	★87-010-263-019	CAP, ELECT 100-10
C16	★87-010-197-019	CAP, CHIP S 0. 01-25 B
C17	★87-010-248-019	CAP, ELECT 220-10 SME
C18	★87-010-400-019	CAP, ELECT 0. 47-50 SME
C19	★87-010-197-019	CAP, CHIP S 0. 01-25 B
C20	★87-010-197-019	CAP, CHIP S 0. 01-25 B
C21	★87-010-182-019	CAP, CHIP S 2200P-50 B
C22	★87-010-197-019	CAP, CHIP S 0. 01-25 B
C25	★87-010-405-019	CAP, ELECT 10-50 SME
C27	★87-010-382-019	CAP, ELECT 22-25 SME
C28	★87-010-382-019	CAP, ELECT 22-25 SME
C29	★87-010-403-019	CAP, ELECT 3. 3-50 SME
C32	★87-010-197-080	CAP, CHIP S 0. 01-25 B
C33	★87-010-400-019	CAP, ELECT 0. 47-50 SME

REF. NO.	PART NO.	DESCRIPTION
C35	★87-010-178-019	CAP, CHIP S 1000P-50 B
C36	★87-010-374-019	CAP, ELECT 47-10
C37	★87-010-401-019	CAP, ELECT 1-50 SME
C38	★87-010-186-019	CAP, CHIP S 4700P-50 B
C39	★87-010-401-019	CAP, ELECT 1-50 SME
C40	★87-015-819-019	CAP, CHIP 0. 01BK
C41	★87-010-318-019	CAP, CHIP S 47P-50 CH
C42	★87-010-197-019	CAP, CHIP S 0. 01-25 B
C51	★87-010-197-019	CAP, CHIP S 0. 01-25 B
C52	★87-010-263-019	CAP, ELECT 100-10
C53	★87-010-318-019	CAP, CHIP S 47P-50 CH
C54	★87-010-318-019	CAP, CHIP S 47P-50 CH
C55	★87-010-318-019	CAP, CHIP S 47P-50 CH
C56	★87-010-196-019	CAP, CHIP S 0. 1-25 F
C80	★87-010-196-019	CAP, CHIP S 0. 1-25 F
C81	★87-010-221-019	CAP, ELECT 470-10
C82	★87-010-197-019	CAP, CHIP S 0. 01-25 B
C83	★87-010-196-019	CAP, CHIP S 0. 1-25 F
C84	★87-010-196-019	CAP, CHIP S 0. 1-25 F
C85	★87-010-196-019	CAP, CHIP S 0. 1-25 F
C86	★87-010-248-019	CAP, ELECT 220-10 SME
C87	★87-010-197-019	CAP, CHIP S 0. 01-25 B
C88	★87-010-221-019	CAP, ELECT 470-10
C89	★87-010-197-019	CAP, CHIP S 0. 01-25 B
C90	★87-010-404-019	CAP, ELECT 4. 7-50 SME
C100	★87-010-374-019	CAP, ELECT 47-10
C101	★87-010-196-019	CAP, CHIP S 0. 1-25 F
C102	★87-010-221-019	CAP, ELECT 470-10
C103	★87-010-197-019	CAP, CHIP S 0. 01-25 B
C104	★87-010-197-019	CAP, CHIP S 0. 01-25 B
C105	★87-010-196-019	CAP, CHIP S 0. 1-25 F
C106	★87-010-197-019	CAP, CHIP S 0. 01-25 B
C107	★87-010-263-019	CAP, ELECT 100-10
C108	★87-010-197-019	CAP, CHIP S 0. 01-25 B
C109	★87-010-197-019	CAP, CHIP S 0. 01-25 B
C110	★87-010-384-019	CAP, ELECT 100-25 SME
C151	★87-010-322-019	CAP, CHIP 100P CH
C152	★87-010-322-019	CAP, CHIP 100P CH
C153	★87-010-319-019	CAP, CHIP 56P CH
C154	★87-010-319-019	CAP, CHIP 56P CH
C155	★87-010-319-019	CAP, CHIP 56P CH
C156	★87-010-319-019	CAP, CHIP 56P CH
C157	★87-010-405-019	CAP, ELECT 10-50 SME
C158	★87-010-405-019	CAP, ELECT 10-50 SME
C159	★87-010-176-010	CAP, CHIP 680P BK
C160	★87-010-176-019	CAP, CHIP 680P BK
C171	★87-010-248-019	CAP, ELECT 220-10 SME
C172	★87-010-197-019	CAP, CHIP S 0. 01-25 B
C173	★87-010-154-019	CAP, CHIP S 10P-50 CH
C174	★87-010-317-019	CAP, CHIP 39P CH(HE, LH, U, K)
C174	★87-010-318-019	CAP, CHIP 47P-50 CH(E, Z)
C175	★87-010-196-019	CAP, CHIP S 0. 1-25 F
C176	★87-010-197-019	CAP, CHIP S 0. 01-25 B
C177	★87-010-370-019	CAP, ELECT 330-6. 3 SME
C178	★87-010-263-019	CAP, ELECT 100-10
C179	★87-010-197-019	CAP, CHIP S 0. 01-25 B
C180	★87-010-197-019	CAP, CHIP S 0. 01-25 B
C181	★87-010-197-019	CAP, CHIP S 0. 01-25 B
C182	★87-010-197-019	CAP, CHIP S 0. 01-25 B
C200	★87-010-196-019	CAP, CHIP S 0. 1-25 F
EM1	★87-008-474-019	FERRITE BEAD, EMI BL02RN1
EM2	★87-005-512-019	FERRITE BEAD, EMI BLM21A05 (HE, LH, U, K)
EM2	★87-005-521-019	FERRITE BEAD, EMI BLM32A06(E, Z)
EM3	★87-005-512-019	FERRITE BEAD, EMI BLM21A05 (HE, LH, U, K)
EM3	★87-005-521-019	FERRITE BEAD, EMI BLM32A06(E, Z)

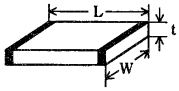
REF. NO.	PART NO.	DESCRIPTION
EM4	★87-005-512-019	FERRITE BEAD, EMI BLM21A05 (HE, LH, U, K)
EM4	★87-005-521-019	FERRITE BEAD, EMI BLM32A06 (E, Z)
L1	★87-003-295-019	COIL, 10UH
J8	★87-002-211-010	IC, GP1F32T (DIGITAL OUT)
L2	★87-003-295-019	COIL, 10UH
L171	★87-003-295-019	COIL, 10UH
R28	87-022-359-019	RES, CHIP S 22K-1/10W F
R29	87-022-359-019	RES, CHIP S 22K-1/10W F
R30	87-022-396-019	RES, CHIP S 3.6K-1/10W F
R31	87-022-350-019	RES, CHIP S 3.3K-1/10W F (HE, LH, E, Z)
SFR1	★87-024-173-019	SFR, 22K
SFR2	★87-024-173-019	SFR, 22K
SFR3	★87-024-173-019	SFR, 22K
SFR4	★87-024-302-019	SFR, 1K CERMET
SFR5	★87-024-302-019	SFR, 1K CERMET (HE, LH, E, Z)
X1	★84-733-617-010	RESONATOR, CRYSTAL 16.9344MHZ
		===LED CIRCUIT BOARD SECTION===
C930	★87-015-681-010	CAP, ELECT 10-16 7L
D930	87-001-161-010	LED, SEL2410E (DECK1>)
D931	87-001-161-010	LED, SEL2410E (DECK1<)
D932	87-001-161-010	LED, SEL2410E (DECK2>)
D933	87-001-161-010	LED, SEL2410E (DECK2<)
D934	87-001-161-010	LED, SEL2410E (⇄)
D935	87-001-161-010	LED, SEL2410E (⇄)
D936	87-001-162-010	LED, SEL2210W (DOLBY C) (U, E, K, Z)
D937	87-001-161-010	LED, SEL2410E (DOLBY NR) (HE, LH) (DOLBY B) (U, E, K, Z)
D938	87-001-161-010	LED, SEL2410E (CD)
D939	87-001-162-010	LED, SEL2210W (SYNC DUBB)
S931	87-036-215-010	TACT SW (OPEN/CLOSE) (HE, LH, U)
S931	87-036-259-018	TACT SW (OPEN/CLOSE) (E, K, Z)
		===TACT CIRCUIT BOARD SECTION===
D901	87-002-816-010	LED, SEL2415E GRN (◀)
D902	87-002-816-010	LED, SEL2415E GRN (▶)
D903	87-002-816-010	LED, SEL2415E GRN (❚❚)
D904	87-002-816-010	LED, SEL2415E GRN (■)
D905	87-002-816-010	LED, SEL2415E GRN (▶▶)
D906	87-002-816-010	LED, SEL2415E GRN (◀◀)
D907	87-002-817-010	LED, SEL2215S RED (●)
S901	87-036-270-019	TACT SW (REV MODE)
S902	87-036-270-019	TACT SW (DOLBY NR)
S903	87-036-215-019	TACT SW (NORM) (HE, LH, U)
S903	87-036-259-018	TACT SW (NORM) (E, K, Z)
S904	87-036-215-019	TACT SW (HIGH) (HE, LH, U)
S904	87-036-259-018	TACT SW (HIGH) (E, K, Z)
S905	87-036-215-019	TACT SW (REC/REC MUTE) (HE, LH, U)
S905	87-036-259-018	TACT SW (REC/REC MUTE) (E, K, Z)
S906	87-036-215-019	TACT SW (❚❚) (HE, LH, U)
S906	87-036-259-018	TACT SW (❚❚) (E, K, Z)
S907	87-036-215-019	TACT SW (■) (HE, LH, U)
S907	87-036-259-018	TACT SW (■) (E, K, Z)
S908	87-036-215-019	TACT SW (PLAY/DIR) (HE, LH, U)
S908	87-036-259-018	TACT SW (PLAY/DIR) (E, K, Z)
S909	87-036-270-019	TACT SW (◀◀)
S910	87-036-270-019	TACT SW (▶▶)
		===DECK-1 CIRCUIT BOARD SECTION===
SOL1	★86-575-622-010	SOLENOID ASSY (FR)
SOL2	★86-575-622-010	SOLENOID ASSY (PLAY)
SW1	87-036-110-010	PUSH SW (CrO2)
SW2	87-036-110-010	PUSH SW (CST)
SW3	86-575-632-110	LEAF SW (FR)
SW4	87-036-110-010	PUSH SW (PLAY)
		===DECK-2 CIRCUIT BOARD SECITON===
SOL11	★86-575-622-010	SOLENOID ASSY (FR)
SOL12	★86-575-622-010	SOLENOID ASSY (PLAY)
SW11	87-036-110-010	PUSH SW (MT)
SW12	87-036-110-010	PUSH SW (REB)
SW13	87-036-109-010	PUSH SW (REA)
SW14	87-036-110-010	PUSH SW (CrO2)
SW15	87-036-110-010	PUSH SW (CST)
SW16	86-575-632-110	PUSH SW (FR)
SW17	87-036-110-010	PUSH SW (PLAY)
SFR11	★87-024-331-010	SFR 5K
SFR12	★87-024-331-010	SFR 5K
M11	87-045-338-010	MOTOR, SHU2L 05 (DECK)
		===MOTOR-1 CIRCUIT BOARD SECTION===
M1	9X-262-513-210	MOTOR GEAR ASSY (SLED)
M2	9X-262-513-310	MOTOR ASSY (W/CHASSIS, T.T) (SPINDLE)
SW1	91-572-085-110	LEAF SW (INSIDE LIMIT)
		===MOTOR-2 CIRCUIT BOARD SECTION===
M3	9X-262-511-710	MOTOR ASSY (LOADING)
SW2	91-572-086-110	LEAF SW (OPEN)
SW3	91-572-086-110	LEAF SW (CLOSE)
		===RELAY-1 CIRCUIT BOARD SECTION===
		===RELAY-2 CIRCUIT BAORD SECTION===
		===MISCELLANEOUS===
	98-848-127-110	OPTICAL PICK UP KSS-210A
D812	87-020-109-019	LED, SLF-201C (DECK1 CASSETTE BACK LIGHT)
D813	87-020-109-019	LED, SLF-201C (DECK2 CASSETTE BACK LIGHT)
PH	87-046-355-010	P HEAD (DECK1)
RPEH	87-046-356-010	R.P.E HEAD (DECK2)

○ チップ抵抗部品コード／CHIP RESISTOR PART CODE

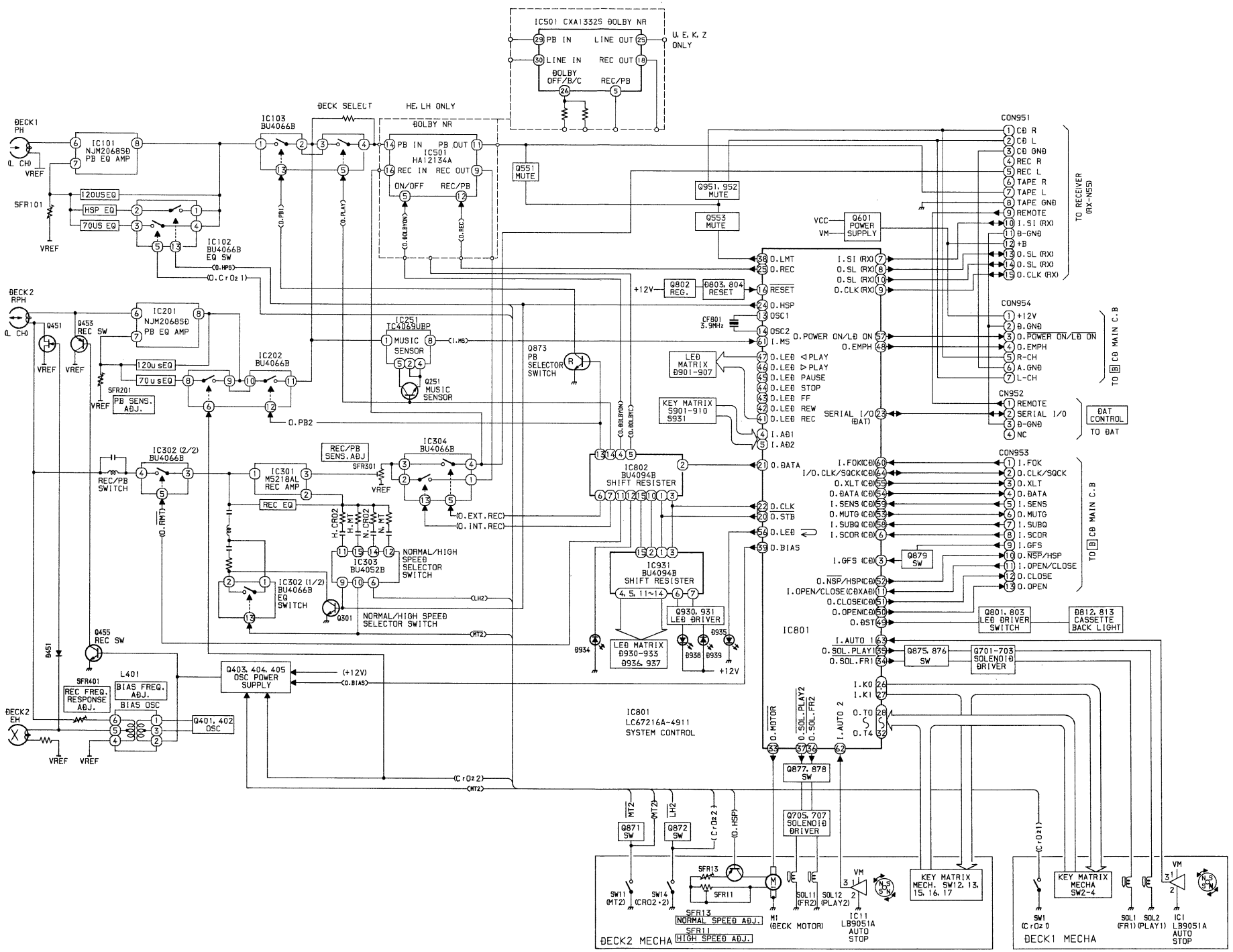
チップ抵抗部品コードの成り立ち
Chip Resistor Part Coding



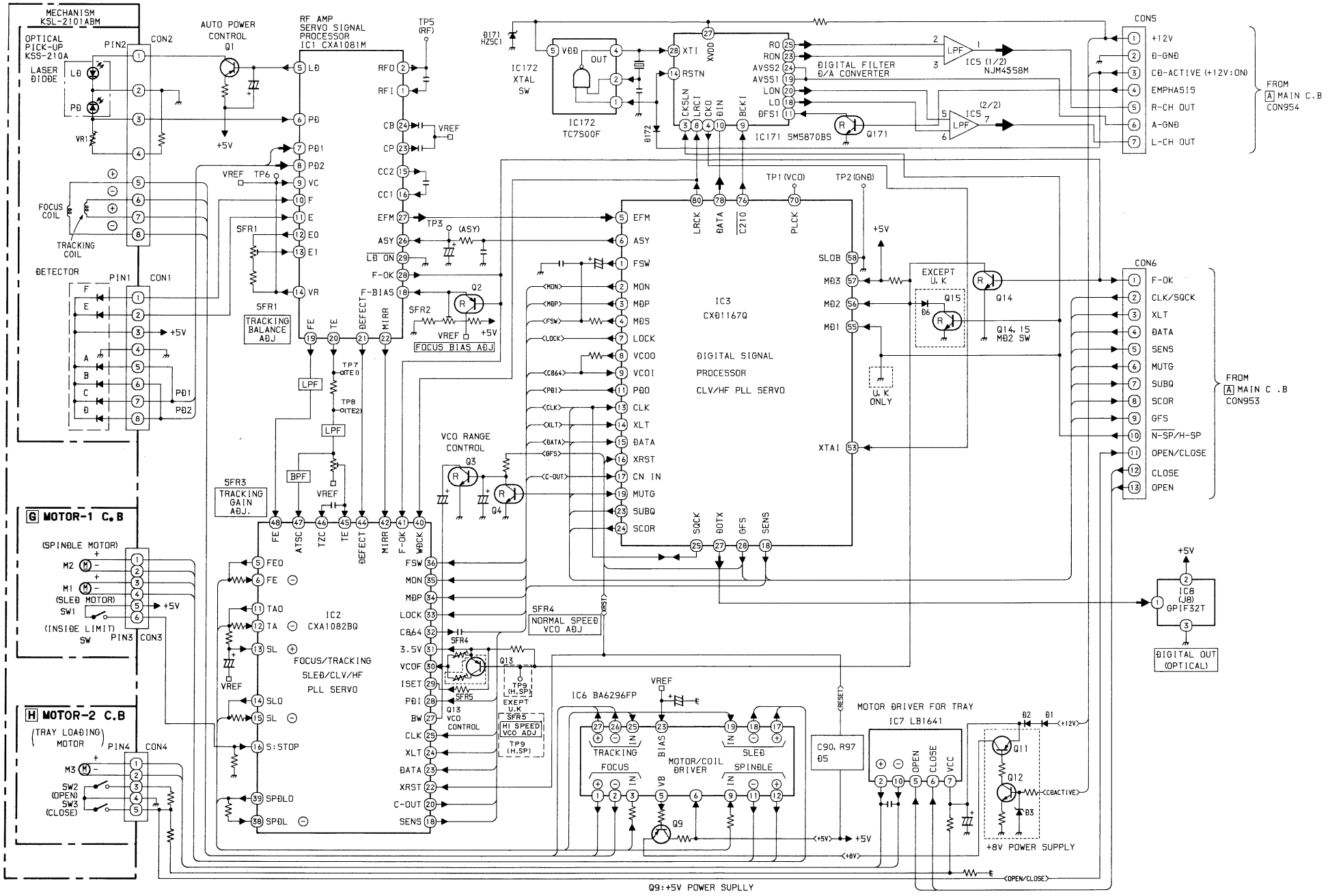
チップ抵抗
Chip resistor

Wattage 容量	Type 種類	Tolerance 許容誤差	Symbol 記号	Dimensions／寸法 (mm) Form／外形	L	W	t	Resistor Code : A 抵抗コード : A
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

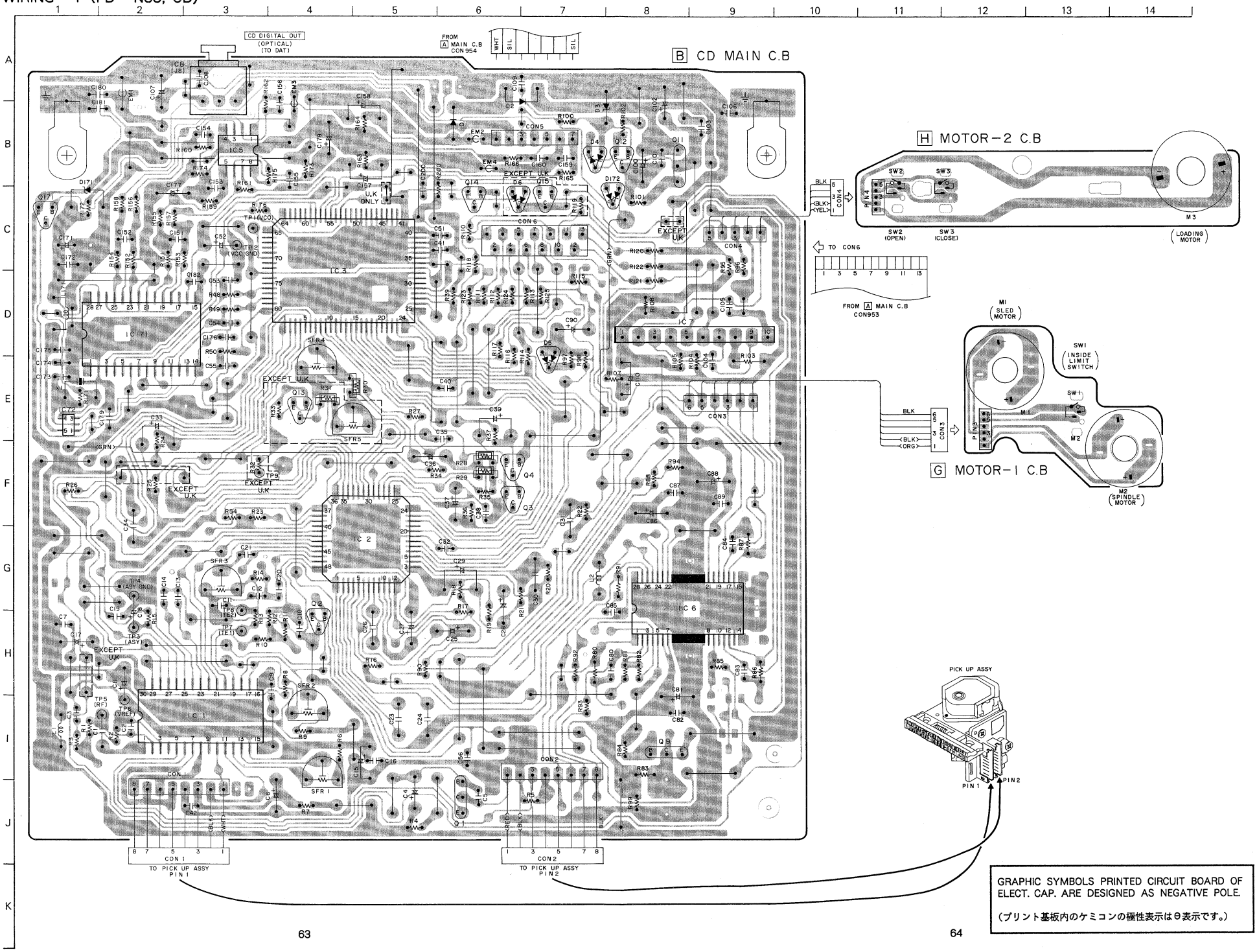
BLOCK DIAGRAM – 1 (FD – N55, DECK)



BLOCK DIAGRAM – 2 (FD – N55, CD)



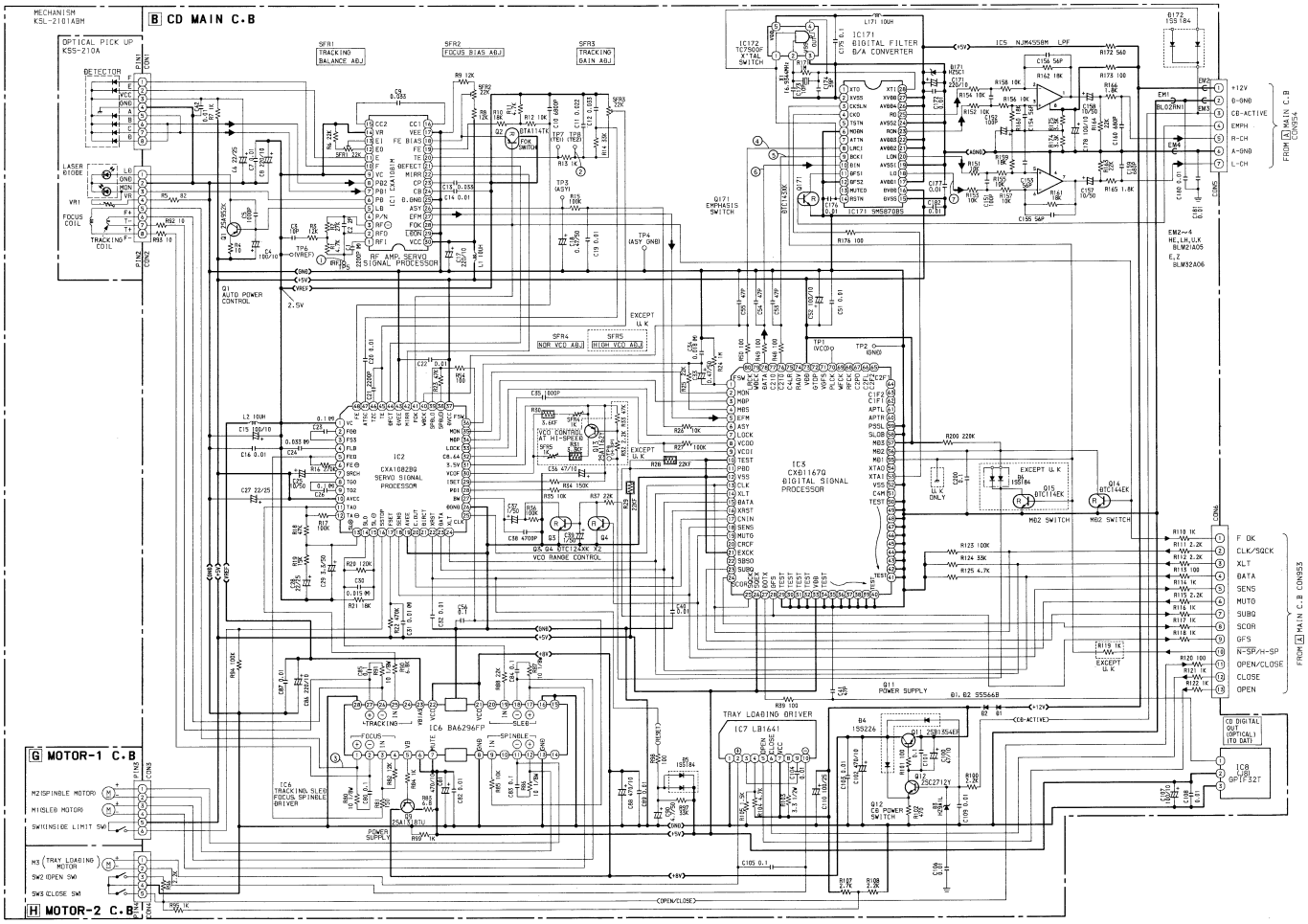
WIRING – 1 (FD – N55, CD)



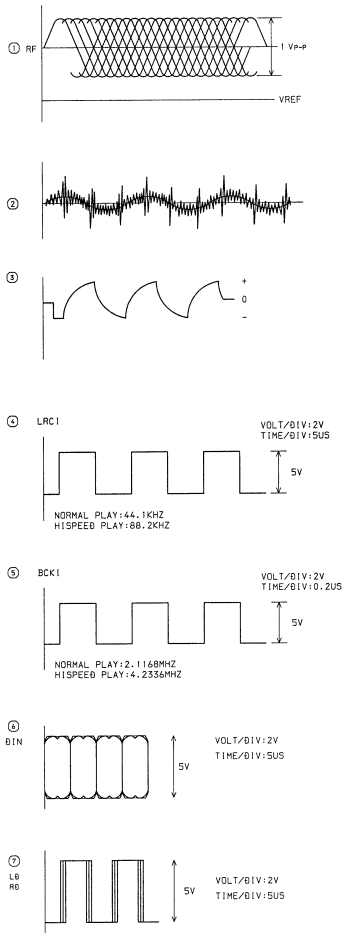
GRAPHIC SYMBOLS PRINTED CIRCUIT BOARD OF ELECT. CAP. ARE DESIGNED AS NEGATIVE POLE.

(プリント基板内のケミコンの極性表示はθ表示です。)

SCHEMATIC DIAGRAM – 1 (FD – N55, CD)

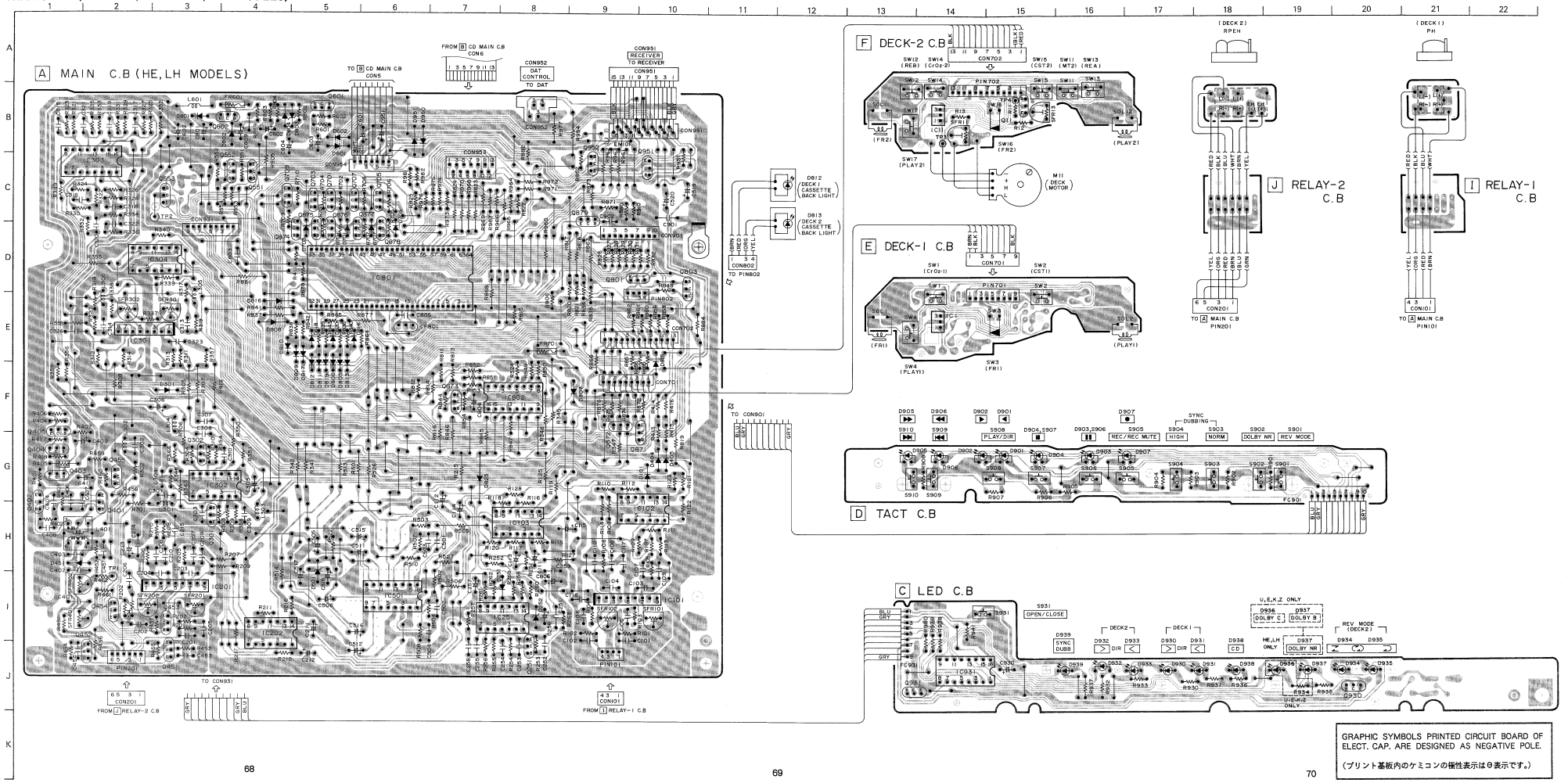


WAVE FORM (FD – N55)



67

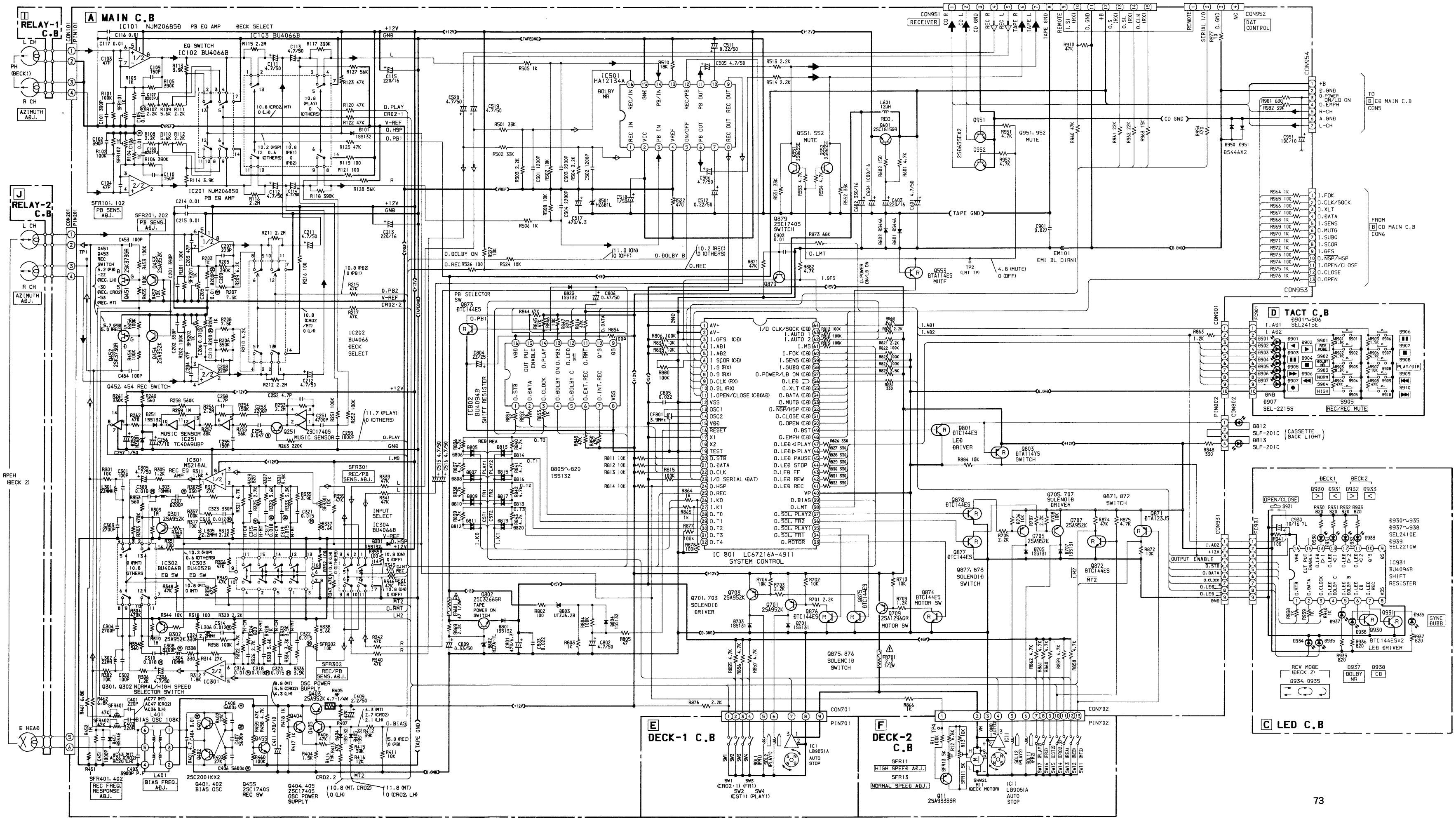
WIRING – 2 (FD – N55, DECK : HE, LH MODELS)



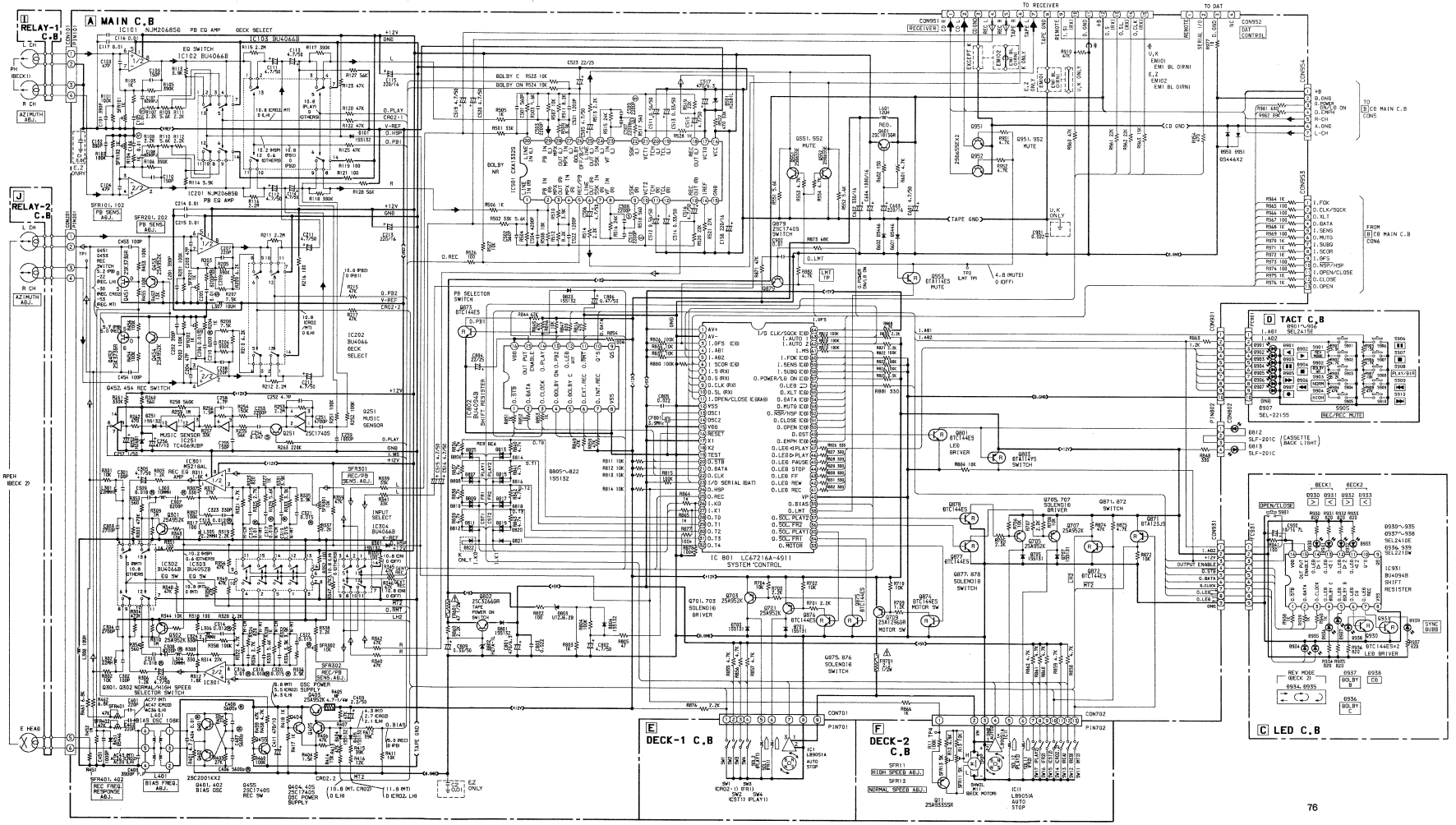
GRAPHIC SYMBOLS PRINTED CIRCUIT BOARD OF ELECT. CAP. ARE DESIGNED AS NEGATIVE POLE.

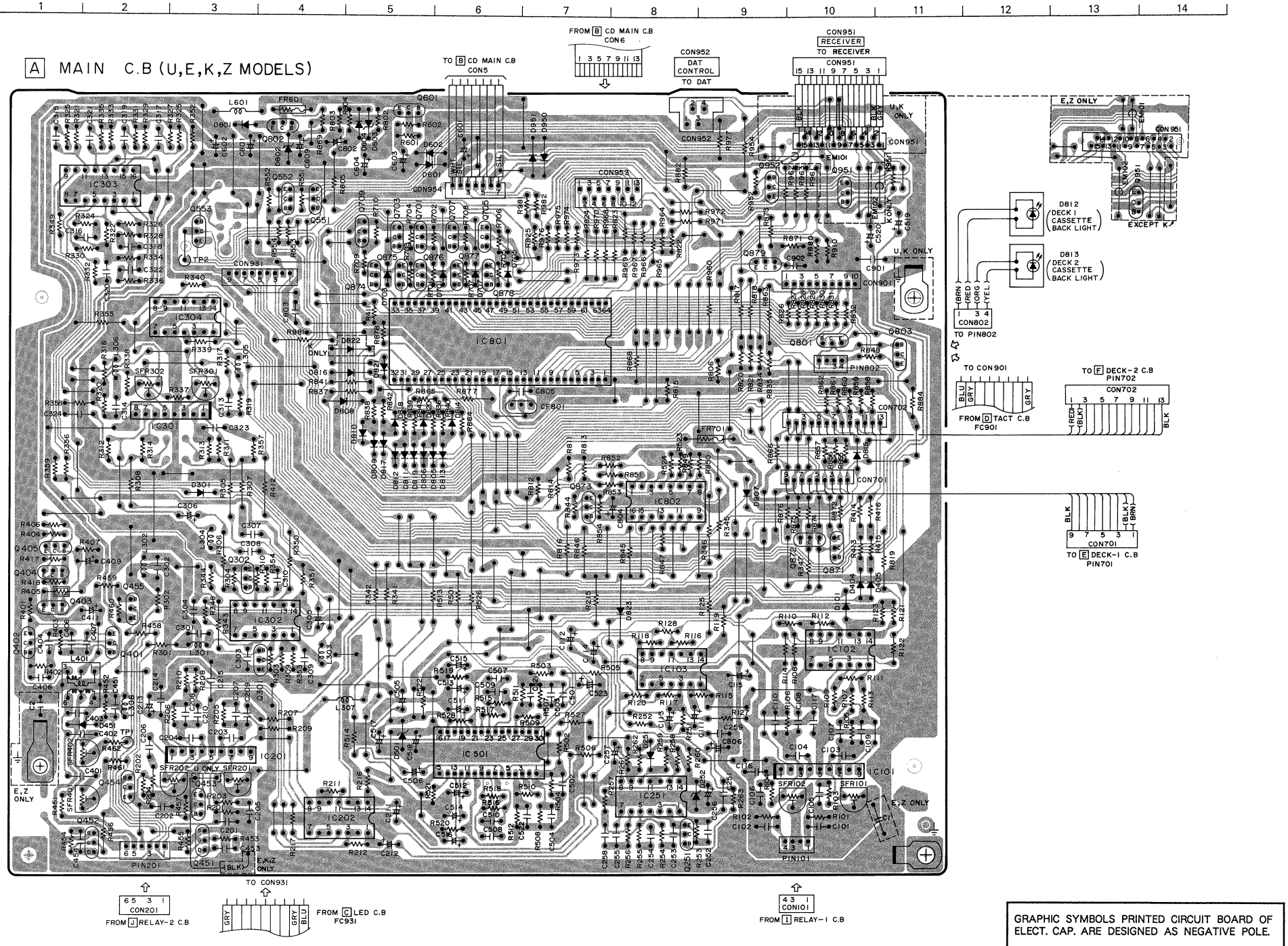
(プリント基板内のケミコンの極性表示は⊖表示です。)

SCHEMATIC DIAGRAM – 2 (FD – N55, DECK : HE, LH MODELS)



SCHEMATIC DIAGRAM – 3 (FD – N55, DECK : U, E, K, Z MODELS)

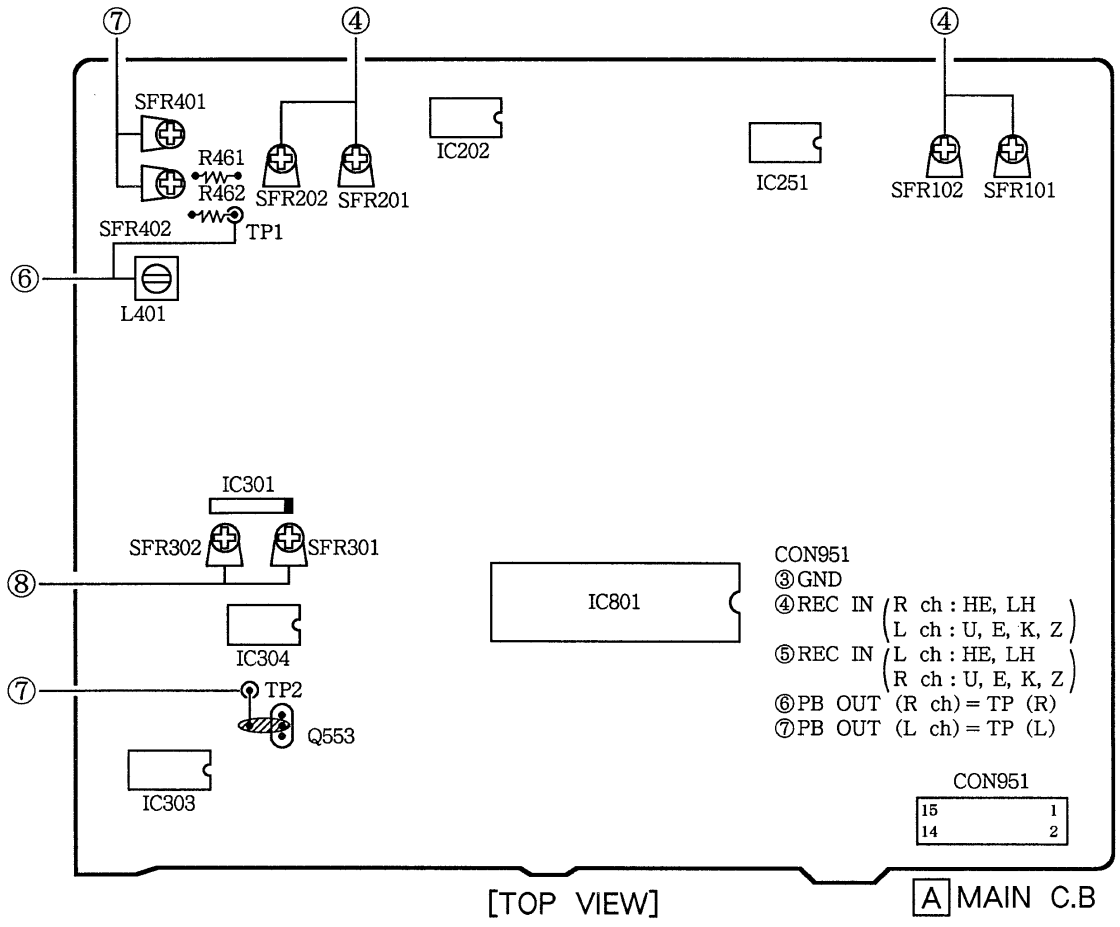


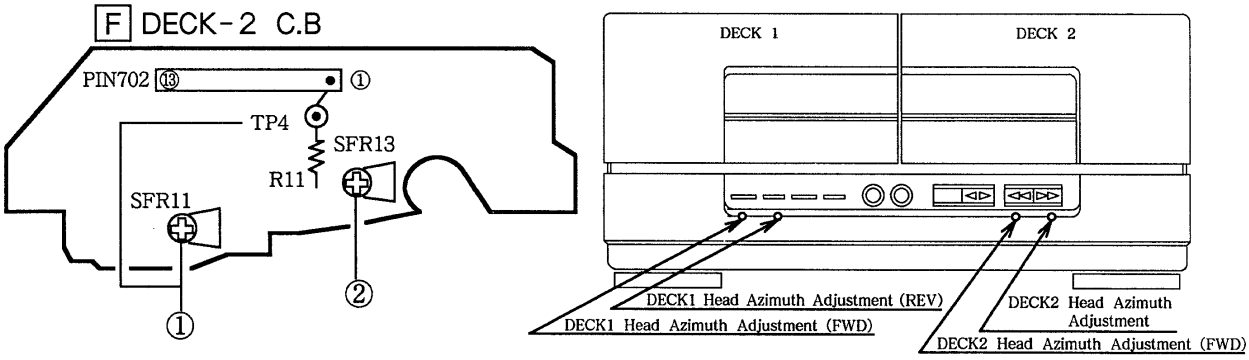


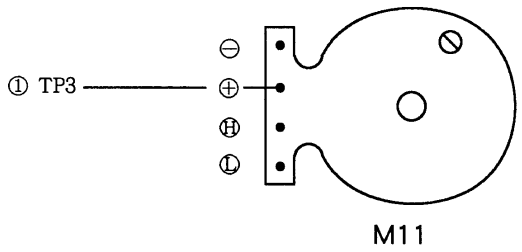
GRAPHIC SYMBOLS PRINTED CIRCUIT BOARD OF ELECT. CAP. ARE DESIGNED AS NEGATIVE POLE.

(プリント基板内のケミコンの極性表示はθ表示です。)

ADJUSTMENT (FD – N55)
< DECK SECTION >







1. High Speed Adjustment (DECK 2)
   Settings : • Test tape : TTA-100 (TTA-111S)
   • Test point : PB OUT pin (CON951)
   • Adjustment location : SFR11 (DECK2)
   Method : Play back the test tape. Short TP3 and TP4 in the PLAY mode to establish the high speed mode, and adjust to 5990 ± 10Hz. After adjustment, remove the shorting wire between TP3 and TP4.

2. Normal Speed Adjustment (DECK1, DECK2)
   Adjust the normal speed after adjusting the high speed.
   Settings : • Test tape : TTA-100 (TTA-111S)
   • Test point : PB OUT pin (CON951)
   • Adjustment location : SFR13 (DECK2)
   Method : Play back the test tape, and adjust to 2995 ± 5Hz in FWD, and to ± 45Hz of the FWD value during the REV mode.

3. Head Azimuth Adjustment (DECK1, DECK2)
   Settings : • Test tape : TTA-310 (TTA-317E, SCC-1429)
   • Test point : PB OUT pin (CON951)
   • Adjustment location : Head azimuth adjustment screw
   Method : Play back the 10kHz signal of the test tape, and adjust so that the output becomes maximum. Adjust each mode of the PLAY mode and the REV PLAY mode.

4. PB Sensitivity Adjustment (DECK1, DECK2)
   Settings : • Test tape : TTA-200 (TTA-161, TTC-130)
   • Test point : PB OUT pin (CON951)
   • Adjustment location : SFR101 (DECK1 Lch)
   SFR102 (DECK1 Rch)
   SFR201 (DECK2 Lch)
   SFR202 (DECK2 Rch)
   Method : Play back the test tape, and adjust so that the outputs are 264mV ± 0.3dB (HE, LH), 280mV ± 0.3dB (E, K, Z, U).

5. PB Frequency Response Check (DECK1, DECK2)
   Settings : • Test tape : TTA-310 (TTA-317E, SSC-1429)
   • Test point : PB OUT pin (CON951)
   Method : Play back the 315Hz and 10kHz signals of the test tapes, and check the 10kHz signal is 0dB ± 2.5dB with reference to the 315Hz signal.

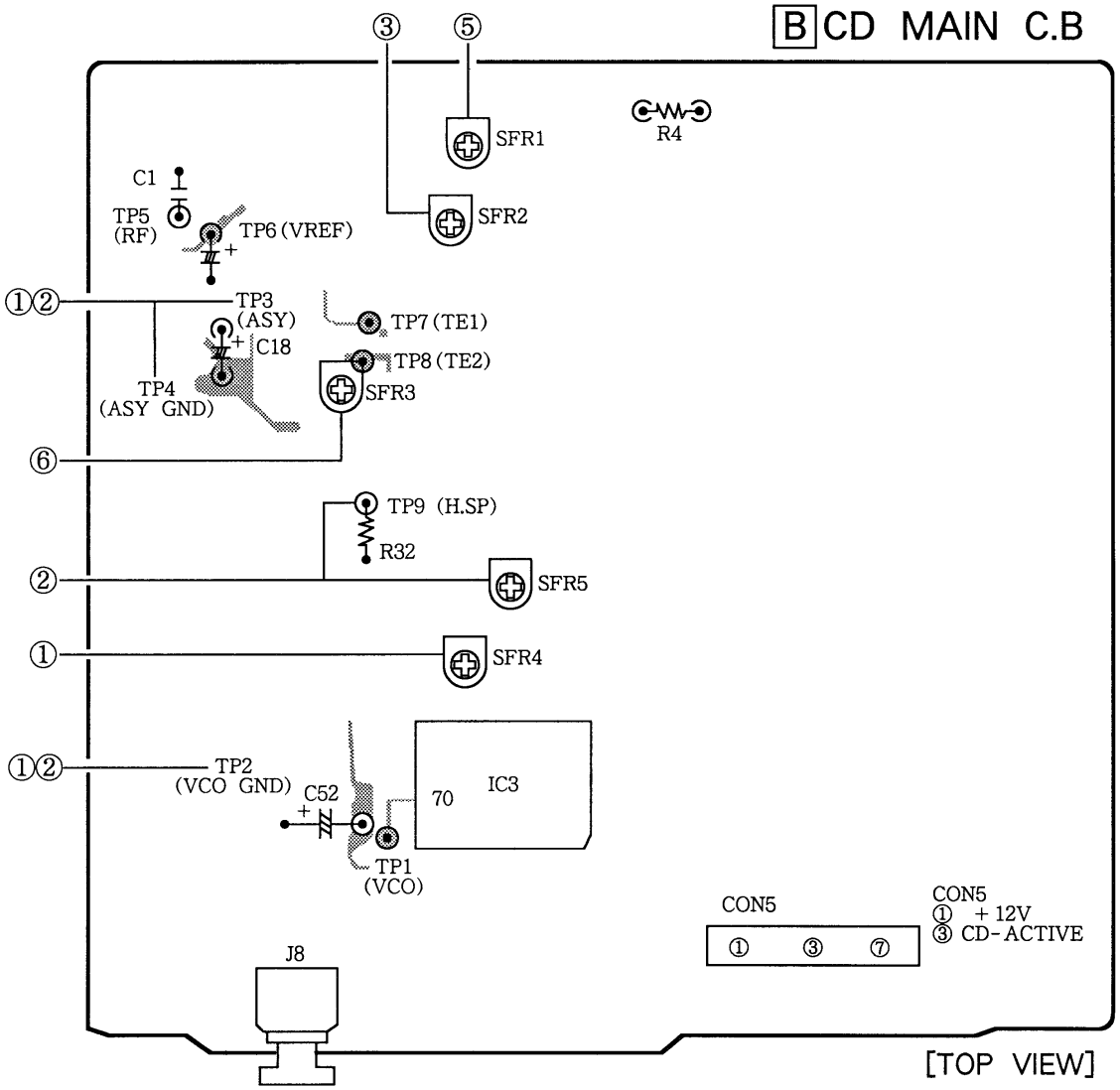
6. Bias Frequency Adjustment (DECK2)
   Settings : • Test tape : TTA-601 (TTA-600, TTA-119K)
   • Test point : TP1
   Method : Set DECK2 to the REC mode, and adjust the output of the test point TP1 to 108 ± 2kHz.

7. REC/PB Frequency Response Adjustment (DECK2)
   Settings : • Test tape : TTA-601 (TTA-600, TTA-119K)
   • Test point : PB OUT pin (CON951)
   REC IN pin (CON951)
   • Adjustment location : SFR401 (Lch)
   SFR402 (Rch)
   Method : Connect TP2 (LMT TP) to the ground on the chassis and input the 1kHz signal, then adjust the voltage at the PB OUT pin to 20mV with ATT. Record and play back 1kHz and 10kHz. Adjust so that 10kHz output is within 0dB ± 0.5dB against 1kHz output.
   After this adjustment, disconnect the shorting wire to the ground.

8. REC/PB Sensitivity Adjustment (DECK2)
   Settings : • Test tape : TTA-601 (TTA-600, TTA-119K)
   • Test point : PB OUT pin (CON951)
   • Adjustment location : SFR301 (Lch)
   SFR302 (Rch)
   Method : Connect TP2 (LMT TP) to the ground on the chassis and input the 1kHz signal, then adjust the voltage at the PB OUT pin to 20mV with ATT.
   After this adjustment, disconnect the wire to the ground.

PB output level :	265 ± 30mV TTA-200 (TTA-161, TTC-130)
REC/PB output level :	190mV ± 1dB (PB OUT, 1kHz) (HE, LH) 188mV ± 1dB (PB OUT, 1kHz) (U, E, K, Z)
Distortion (REC/PB) :	Less than 2.0% (NORM., CrO2, METAL)
Erasing ratio :	More than 60dB
Cross talk :	More than 60dB
Channel separation :	More than 30dB
Noise (REC/PB) :	Less than 2.2mV (DOLBY OFF, NORM.) Less than 1.1mV (DOLBY B ON, CrO2) Less than 1.0mV (U, E, K, Z) (DOLBY B ON, METAL)
Noise (PB) :	Less than 2.0mV (DOLBY OFF, NORM.) Less than 1.0mV (DOLBY B ON, CrO2) Less than 0.9mV (U, E, K, Z) (DOLBY C ON, METAL)
Recording bias frequency :	108kHz
Tape speed :	3000Hz ± 45Hz
Wow & flutter :	Less than 0.25% (W.RMS) (DECK1/2)
Take-up torque :	25~60g-cm (DECK1/2)
F.F torque :	70~150g-cm (DECK1/2)
REW torque :	70~150g-cm (DECK1/2)
Back tension :	2~6g-cm (DECK1/2)
Test tape :	NORMAL TTA-601 (TTA-600, TTA-119K) CrO_2 TTA-610 (TTA-119H) METAL TTA-630 (TTA-119MP)

< CD SECTION >



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

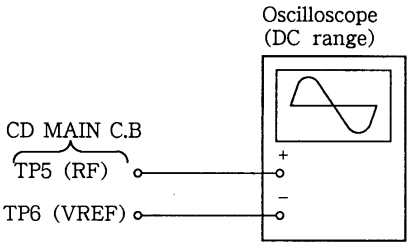
① Normal Speed VCO Frequency Adjustment

1. Connect CON5① PIN to CON5 ③ PIN with wire.
2. Connect the frequency counter to test points TP1 (VCO) and TP2 (VCO GND).
3. Short between TP3 (ASY) and TP4 (ASY GND).
4. Adjust SFR4 (VCO) so that the frequency counter to 4.40 ± 0.01MHz.
5. After this adjustment, disconnect the short lead wire between test points TP3 (ASY) and TP4 (ASY GND).

② High Speed VCO Frequency adjustment
(HE, LH, E, Z, ONLY)
Adjust the high speed VCO frequency after adjusting the normal speed VCO frequency.

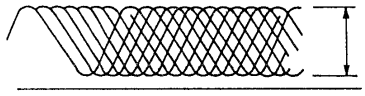
1. Connect CON5 ① PIN to CON5 ③ PIN with wire.
2. Connect the frequency counter to test points TP1 (VCO) and TP2 (VCO GND).
3. Short between TP9 (H•SP) and TP4 (GND) to establish the high speed mode.
4. Short between TP3 (ASY) and TP4 (ASY GND).
5. Adjust SFR5 so that the frequency counter to 9.60 ± 0.01MHz .
6. After this adjustment, disconnect the short lead wire between test points TP3 (ASY), TP4 (ASY GND) and TP9 (H • SP).

③ Focus Bias Adjustment
Make the focus bias adjustment when replacing or repairing the optical block.



1. Connect an oscilloscope to test points TP5 (RF) and TP6 (VREF).
2. Insert the test disc TCD-782 (YEDS-18) and play the second program.
3. Adjust SFR2 (F.B) so that the waveform of the oscilloscope is the maximum.

RF Signal Waveform



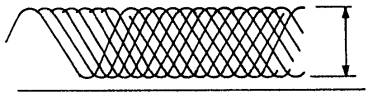
VOLT/DIV : 200mV
TIME/DIV : 0.5 μS

④ RF Waveform Check

Make the RF waveform check when replacing or repairing the optical block.

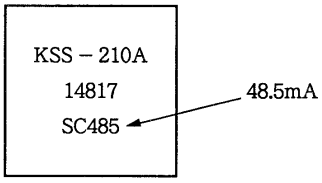
1. Connect an oscilloscope to test points TP5 (RF) and TP6 (VREF).
2. Insert the test disc TCD-782 (YEDS-18) and play the second program.
3. Check the waveform is such as the following figure.

RF Signal Waveform



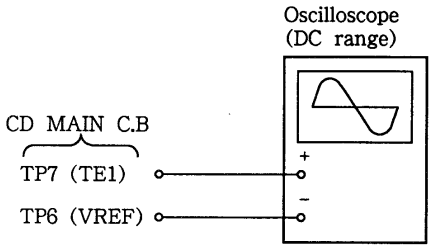
VOLT/DIV : 200mV
TIME/DIV : 0.5 μS

Note : The current of the laser signal can be checked with the voltages on both sides of R4 (10 Ω). The difference for the specified value shown on the label must be within ± 6.0mA.

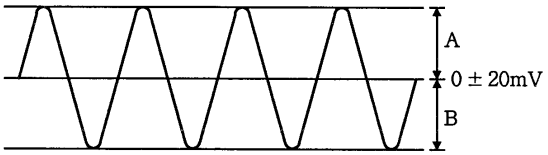


$$\text{Laser current } Iop = \frac{\text{Voltage across R4}}{10\ \Omega}$$

⑤ Tracking Balance Adjustment



1. Connect an oscilloscope to test points TP7 (TE1) and TP6 (VREF).
2. Insert the test disc TCD-782 (YEDS-18) and set to the ▷ PLAY mode.
3. Adjust SFR1 (TB) so that the traverse waveform of the oscilloscope is vertically symmetrical as shown in the following figure.



VOLT/DIV : 20mV
TIME/DIV : 2mS

⑥ Tracking Gain Adjustment

A servo analyzer is necessary to perform this adjustment precisely. However, this gain has a margin, so even if the gain is slightly off, it hardly causes a problem. Therefore, do not perform this adjustment. The focus/tracking gain determines the pick-up follow-up characteristic relative to mechanical noise and mechanical shock when the 2-axis device operates. However, as these gains are reciprocated,the adjustment is performed so that both gains are satisfied.

- When gain is raised, the noise increases as the 2-axis device operates.
- When gain is lowered, it is more susceptible to mechanical shock and skipping occurs more easily. When the gain adjustment is not satisfied, symptoms shown below appear.

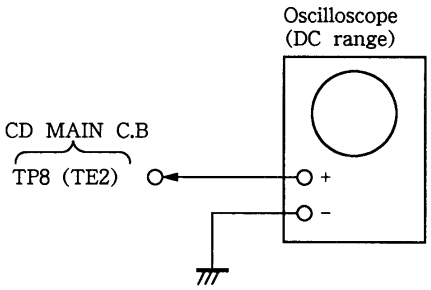
Symptoms \ Gain	(Focus)	Tracking
● The time until the music starts becomes longer for STOP→▶ PLAY or automatic selection (⏮and⏭ buttons pressed). (Normally it takes about 2 seconds.)	Low	Low or High
● Music does not start and disc continues to rotate for STOP →▶ PLAY or automatic selection (⏮and⏭ buttons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

The following is a simple adjustment method.

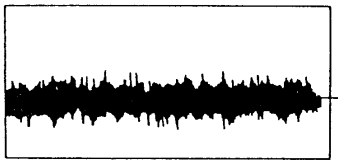
——Simple adjustment——

Note : As the adjustment cannot be conducted accurately, keep in mind the volume control position before adjusting and compare the volume control positions after the simple adjustment. When the difference between the positions are little, return the volume control to its original position.

Procedure :



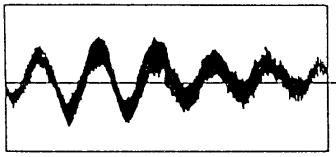
1. Keep the set horizontally (If the set is not kept horizontally, this adjustment cannot be performed due to the gravity against the 2-axis device).
2. Insert the test disc TCD-782 (YEDS-18) and play the second program.
3. Connect an oscilloscope to test points TP8 (TE2), TP4 (GND).
4. Adjust SFR3 (TE) so that the waveform of the oscilloscope appears as shown in the following figure (tracking gain adjustment).



VOLT/DIV : 50mV
TIME/DIV : 2mS

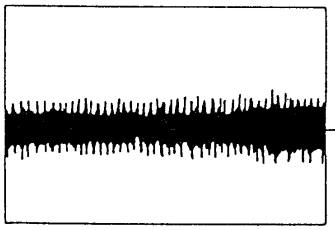
● Incorrect example (The fundamental wave appears as compared with the waveform adjusted.)

Low tracking gain



VOLT/DIV : 50mV
TIME/DIV : 2mS

High tracking gain
[The fundamental wave is higher in comparison with the case that the gain is low.]



VOLT/DIV : 50mV
TIME/DIV : 2mS

IC DESCRIPTION (FD – N55)

IC,CXD1167Q

Pin No.	Pin Name	I/O	Description
1	FSW	O	Time constant switching output for the spindle motor output filter.
2	MON	O	ON/OFF control output for the spindle motor.
3	MDP	O	Spindle motor drive output, the coarse control in the CLV-S mode and the SPEED control in the CLV-P mode.
4	MDS	O	Spindle motor drive output, speed control in the CLV-S mode.
5	EFM	I	EFM signal input from the RF amplifier.
6	ASY	O	Output to control the slice level of the EFM signal.
7	LOCK	O	When the GFS signal is sampled by WFCK/16 and it is "H", "H" is output. When "L" is serially output eight times, "L" is output.
8	VCOO	O	VCO output. f = 8.6436MHz when it is locked to the EFM signal.
9	VCOI	I	VCO input.
10	TEST	—	Connected to GND. (0V)
11	PDO	O	Phase comparison output between the EFM and VCO/2 signals.
12	VSS	—	GND. (0V)
13	CLK	I	Serial data transmission clock input from the CPU. Data is latched at the starting edge of the clock.
14	XLT	I	Latch input from CPU. Latches 8-bit shift register data (serial data from CPU) to each register.
15	DATA	I	Input serial data from CPU.
16	XRST	I	System reset input. It is reset when "L".
17	CNIN	I	Tracking pulse input.
18	SENS	O	Internal state is output corresponding to the address.
19	MUTG	I	Muting input. When the ATTM of the internal register is "L", the MUTG is "L" and is normal. When "H", there is no sound signal.
20	CRCF	O	Result of the CRC check of sub code Q is output.
21	EXCK	I	Clock input for sub code serial output. (Connected to GND.)
22	SBSO	O	Sub code serial output. (Not used.)
23	SUBQ	O	Sub code Q output.
24	SCOR	O	Sub code sync S0 + S1 output.
25	SQCK	I/O	Sub code Q read clock.
26	SQEX	I	SQCK selection input. (Connected to +5V.)
27	DOTX	O	Digital audio interface output. (WFCK is output when OFF.)
28	GFS	O	Display output of the lock state of the frame sync. "H" when it is locked.
29	TEST	I/O	External RAM data terminal, DATA 8 (MSB). (Connected to GND.)
30	TEST	I/O	External RAM data terminal, DATA 7. (Connected to GND.)
31	TEST	I/O	External RAM data terminal, DATA 6. (Connected to GND.)
32	TEST	I/O	External RAM data terminal, DATA 5. (Connected to GND.)
33	VDD	—	Power supply. (+5V)
34	TEST	I/O	External RAM data terminal, DATA 4. (Connected to GND.)
35	TEST	I/O	External RAM data terminal, DATA 3. (Connected to GND.)

Pin No.	Pin Name	I/O	Description
36	TEST	I/O	External RAM data terminal, DATA 2. (Connected to GND.)
37	TEST	I/O	External RAM data terminal, DATA 1 (LSB). (Connected to GND.)
38	TEST	O	External RAM address output, ADDR 01 (LSB). (Connected to GND.)
39	TEST	O	External RAM address output, ADDR 02. (Connected to GND.)
40	TEST	O	External RAM address output, ADDR 03. (Connected to GND.)
41	TEST	O	External RAM address output, ADDR 04. (Connected to GND.)
42	TEST	O	External RAM address output, ADDR 05. (Connected to GND.)
43	TEST	O	External RAM address output, ADDR 06. (Connected to GND.)
44	TEST	O	External RAM address output, ADDR 07. (Connected to GND.)
45	TEST	O	External RAM address output, ADDR 08. (Connected to GND.)
46	TEST	O	External RAM address output, ADDR 09. (Connected to GND.)
47	TEST	O	External RAM address output, ADDR 10. (Connected to GND.)
48	TEST	O	External RAM address output, ADDR 11 (MSB). (Connected to GND.)
49	TEST	O	Write Enable signal output to the external RAM, (Active when "L"). (Connected to GND.)
50	TEST	O	Chip Select signal output to the external RAM, (Active when "L"). (Connected to GND.)
51	C4M	O	1/2 frequency division output to the X'tal. f = 4.2336MHz (Not used.)
52	VSS	—	GND. (0V)
53	XTAI	I	X'tal oscillation circuit input. f = 8.4672MHz
54	XTAO	O	X'tal oscillation circuit output. f = 8.4672MHz (Not used.)
55	MD1	I	Mode selection input 1. It is used when "H" Mode selection input 2. It is used when "L" Mode selection input 3. It is used when "L" { Clock frequency 8.4672MHz, digital out OFF, digital filter ON. } It is used in the following modes.
56	MD2		
57	MD3		
58	SLOB	I	Code switching input of the audio output. 2's complement output when "L", offset binary output when "H". (Connected to GND.)
59	PSSL	I	Mode switching input of the audio data output. Serial output when "L", parallel output when "H". (Connected to GND.)
60	APTR	O	Aperture compensation control output. 88.2kHz when filter ON, 44.1kHz when filter OFF. (Not used.)
61	APTL	O	Aperture compensation control output. 88.2kHz when filter ON, 44.1kHz when filter OFF. (Not used.)
62	C1F1	O	DA01 (LSB of the parallel audio data) output when PSSL = "H". C1F1 output when PSSL = "L". (Not used.)
63	C1F2	O	DA02 output when PSSL = "H". C1F2 output when PSSL = "L". (Not used.)
64	C2F1	O	DA03 output when PSSL = "H". C2F1 output when PSSL = "L". (Not used.)
65	C2F2	O	DA04 output when PSSL = "H". C2F2 output when PSSL = "L". (Not used.)
66	C2FL	O	DA05 output when PSSL = "H". C2FL output when PSSL = "L". (Not used.)
67	C2P0	O	DA06 output when PSSL = "H". C2P0 output when PSSL = "L". (Not used.)
68	RFCK	O	DA07 output when PSSL = "H". RFCK output when PSSL = "L". (Not used.)
69	WFCK	O	DA08 output when PSSL = "H". WFCK output when PSSL = "L". (Not used.)
70	PLCK	O	DA09 output when PSSL = "H". PLCK output when PSSL = "L". (Note 1) (Not used.)

Pin no.	Pin Name	I/O	Description
71	VGFS	O	DA10 output when PSSL = "H". VGFS output when PSSL = "L". (Not used.)
72	GTOP	O	DA11 output when PSSL = "H". GTOP output when PSSL = "L". (Not used.)
73	VDD	—	Power supply. (+5V)
74	RA0V	O	DA12 output when PSSL = "H". RA0V output when PSSL = "L". (Not used.)
75	C4LR	O	DA13 output when PSSL = "H". C4LR output when PSSL = "L". (Not used.)
76	$\overline{C210}$	O	DA14 output when PSSL = "H". C210 output when PSSL = "L".
77	C210	O	DA15 output when PSSL = "H". C210 output when PSSL = "L". (Note 2) (Not used.)
78	DATA	O	DA16 (MSB of the parallel audio data) output when PSSL = "H". DATA output when PSSL = "L". (Note 3)
79	WDCK	O	Strobe signal output. 176.4kHz when filter ON, 88.2kHz when filter OFF. (Not used.)
80	LRCK	O	Strobe signal output. 88.2kHz when filter ON, 44.1kHz when filter OFF.

Note 1: PLCK: VCO/2 output. f = 4.3218MHz when the EFM signal is locked.
Note 2: C210: Bit clock output. f = 2.1168MHz
Note 3: DATA: Serial data output of the audio signal.

IC,CXA1082BQ

Pin No.	Pin Name	I/O	Description
1	VC	—	Connected to VREF.
2	FGD	O	When the high-frequency gain of the focus servo is lowered, a capacitor is connected between this terminal and pin 3.
3	FS3	I	The high-frequency gain of the focus servo is switched with ON/OFF of FS3.
4	FLB	O	Time constant external terminal for raising the low-frequency range of the focus servo.
5	FEO	O	Focus error signal output terminal.
6	FE ⊖	I	Focus amplifier inversion input terminal.
7	SRCH	O	Time constant exterminator terminal to generate the focus search waveform.
8	TG0	O	Time constant external terminal for switching the tracking high-frequency gain.
9	TG2	O	Time constant external terminal for switching the tracking high-frequency gain.
10	AVCC	—	Power supply terminal. (+5V)
11	TAO	O	Tracking error signal output terminal.
12	TA ⊖	I	Tracking amplifier inversion input terminal.
13	SL ⊕	I	Noninversion input terminal of the sled amplifier.
14	SLO	O	Output terminal of the sled amplifier.
15	SL ⊖	I	Inversion input terminal of the sled amplifier.
16	SSTOP	I	ON/OFF detection signal terminal of the limit switch detects the inner-most circumference. It is fixed to "L" for this set.
17	FSET	I	Setting terminal of the phase compensation peak of the focus tracking and CLV LPF (fo).
18	SENS	O	IC internal state output corresponding to data address. (It is changed depending on the address of the internal register.)
19	AVEE	—	Power supply terminal. (Connected to GND.)
20	C. OUT	O	Count signal output of the tracking in the high-speed access mode.

Pin No.	Pin Name	I/O	Description
21	DIRCT	O	It is used when the one-track jump. It is normally set to "H". A direction of the tracking jump pulse is inverted when "L". When setting to "H", it is set to the normal tracking mode. It is set in a time to "L" at the start and fall of TZC. (Not used.)
22	XRST	O	All the internal register are cleared when "L".
23	DATA	I	Serial data transmission from the CPU. Input from LSB.
24	XLT	O	Data of the internal serial shift register is transmitted to each latch memory which the address is decoded when "L".
25	CLK	O	Data transmission clock. Data is read at the falling edge.
26	DGND	—	GND terminal.
27	BW	I	Time constant external terminal of the loop filter.
28	PD1	I	Input terminal of data PDO output from phase comparator CXD1167Q.
29	ISET	I	The current which set the height of the focus search, tracking jump and sled kick is supplied.
30	VCOF	I	The free-running frequency of VCO corresponds to the resist value between pins30 and 31.
31	3.5V	O	
32	C8.64	O	8.64MHz VCO output terminal.
33	LOCK	I	Connected to the LOCK terminal of CXD1167Q.
34	MDP	I	Terminal to connect the MDP terminal of CXD1167Q.
35	MON	I	Terminal to connect the MON terminal of CXD1167Q.
36	FSW	I	LPF time constant external terminal of the CLV servo difference signal.
37	DVCC	—	Power supply terminal. (+5V)
38	SPDL ⊖	I	Inversion terminal of the spindle drive amplifier.
39	SPDLO	O	Spindle motor drive terminal.
40	WDCK	I	Word clock signal input terminal.
41	FOK	I	Focus OK signal input terminal.
42	MIRR	I	Mirror signal input terminal.
43	DVEE	—	GND terminal.
44	DFCT	I	Focus servo and tracking servo are OFF while "H" is being inputting.
45	TE	I	Tracking error signal input terminal.
46	TZC	I	Input terminal of the tracking zero-cross comparator.
47	ATSC	I	ATSC detection window comparator input terminal. Data input terminal to indicate that a mechanical shock is occurred.
48	FE	I	Focus error signal input terminal.

IC,CXA1081M

Pin No.	Pin Name	I/O	Description
1	RFI	I	RF summing amplifier output is input combined with C.
2	RFO	O	RF summing amplifier output, EYE pattern test point.
3	RF ⊖	I	RF summing amplifier inversion input. Feedback resistor is connected between pins ② and ③.
4	P/N	I	Input is switched with the polarity of the laser diode. (Not used.)
5	LD	O	Control output of the laser diode output.
6	PD	I	Photo detector for detecting the laser diode output is connected.
7	PD1	I	RF I-V amplifier (1) inversion input. It is connected to PIN diode A + C and the power supply is input.
8	PD2	I	RF I-V amplifier (2) inversion input. It is connected to PIN diode B + D and the power supply is input.
9	VC	I	Reference voltage input of the internal IC. It is connected to pin ⑭ in the single power mode. It is connected to GND in the ±2 power mode.
10	F	I	F I-V amplifier inversion input. It is connected to PIN diode F and the power supply is input.
11	E	I	E I-V amplifier inversion input. It is connected to PIN diode E and the power supply is input.
12	EO	O	E I-V amplifier output. It is connected to the feedback resistor.
13	EI	I	E I-V amplifier gain adjustment terminal.
14	VR	O	Intermediate potential is output. It is connected to pin ⑨ in the single power mode. It is OPEN in the ±2 power mode. (Not used.)
15	CC2	O	Defect bottom hold (1) output. Capacitor is connected between pins ⑮ and ⑯.
16	CC1	I	Defect bottom hold (1) output is connected to the capacitor and input.
17	VEE	—	GND in the single power mode. Negative power in the ±2 power mode.
18	FE BIAS	I	Positive phase bias input of the focus error amplifier.
19	FE	O	Focus error amplifier output.
20	TE	O	Tracking error amplifier output.
21	DEFECT	O	Defect detection output. Mirror defect detection signal is output.
22	MIRR	O	Mirror comparator output.
23	CP	O	Mirror hold capacitor connection terminal.
24	CB	O	Defect bottom hold (2) capacitor connection terminal.
25	D. GND	—	Digital GND.
26	ASY	I	Auto symmetry control input.
27	EFM	O	EFM output comparator output.
28	FOK	O	Focus OK output.
29	$\overline{\text{LD ON}}$	I	Laser diode ON/OFF control input.
30	VCC	—	Positive power supply. (+ 5V)

IC,SM5870BS

Pin No.	Pin Name	I/O	Description
1	XTO	O	Oscillator output terminal. (Not used.)
2	XVSS	—	X'tal system GND. (0V)
3	CK SLN	I	Normal/high speed PB selection mode. (DS=L: normal PB mode.) (DS=H: high speed PB mode.)
4	CKO	O	Oscillator output clock. (DS=L: 384fs same as XTI input frequency.) (DS=H: 192fs same as XTI input frequency.) (Not used.)
5	TSTN	I	Test terminal. (Not used.)
6	MODN	I	Mode terminal.
7	ATTN	I	Soft mute control terminal. (ATTN=H: soft mute release execution.) (ATTN=L: soft muting execution.) (Not used.)
8	LRCI	I	Sample rate (fs) clock of input data: H=L ch, L=R ch.
9	BCKI	I	Bit clock of input data.
10	DIN	I	Input data.
11	DFS1	I	De-emphasis control 1 terminal.
12	DFS2	I	De-emphasis control 2. (Connected to GND.)

DFS2	Selection	DFS1	
		L	H
	L	De-emphasis ON 44.1 kHz	De-emphasis OFF
	H	De-emphasis ON 48.0 kHz	De-emphasis ON 32.0 kHz

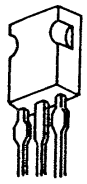
13	MUTEO	O	Infinity/zero detection output. (Not used.)
14	RSTN	I	System reset: H=normal execution. L=system reset.
15	DVSS	—	Digital GND terminal. (0V)
16	DVDD	—	Digital VDD terminal. (5V)
17	AVDD1	—	Analog VDD 1 terminal. (5V)
18	LO	O	L ch PWM. (+)
19	AVSS1	—	Analog GND 1 terminal. (0V)
20	LON	O	L ch PWM output terminal. (-)
21	AVDD2	—	Analog VDD 2 terminal. (5V)
22	AVDD3	—	Analog VDD 3 terminal. (5V)
23	RON	O	R ch PWM output. (-)
24	AVSS2	—	Analog GND 2 terminal. (0V)
25	RO	O	R ch PWM output. (+)
26	AVDD4	—	Analog VDD 4 terminal. (5V)
27	XVDD	—	X'tal system VDD terminal. (5V)
28	XTI	I	Oscillator Input terminal. (DS=L: when 384fs.) (DS=H: when 192fs.)

<table>
<tr><th>Pin No.</th><th>Pin Name</th><th>I/O</th><th>Description</th></tr>
<tr><td>1</td><td>AV+</td><td>—</td><td>A/D converter reference voltage input. (+5V)</td></tr>
<tr><td>2</td><td>AV−</td><td>—</td><td>A/D converter reference voltage input. (GND)</td></tr>
<tr><td>3</td><td>I. GFS (CD)</td><td>I</td><td>Display lock condition of the frame sync.. "L" at the error output.</td></tr>
<tr><td>4</td><td>I. AD1</td><td>I</td><td>A/D input of PAUSE, STOP, PLAY, REW and FF keys.</td></tr>
<tr><td>5</td><td>I. AD2</td><td>I</td><td>A/D input of OPEN/CLOSE, REV MODE, DOLBY NR, NORM, HIGH and REC keys.</td></tr>
<tr><td>6</td><td>I. SCOR (CD)</td><td>I</td><td>Serial data of the sub code sync S0+S1.</td></tr>
<tr><td>7</td><td>I. S (RX)</td><td>I</td><td>Serial data input from RX-N55.</td></tr>
<tr><td>8</td><td>O. S (RX)</td><td>O</td><td rowspan="3">Serial data output to RX-N55.</td></tr>
<tr><td>9</td><td>O. CLK (RX)</td><td>O</td></tr>
<tr><td>10</td><td>O. SL (RX)</td><td>O</td></tr>
<tr><td>11</td><td>I. OPEN/ CLOSE (CD×AD)</td><td>I</td><td>Tray position detection switch. AD input.</td></tr>
<tr><td>12</td><td>VSS</td><td>—</td><td>Power supply terminal. (GND)</td></tr>
<tr><td>13</td><td>OSC1</td><td>I</td><td>Main clock oscillation terminal. (input)</td></tr>
<tr><td>14</td><td>OSC2</td><td>O</td><td>Main clock oscillation terminal. (output)</td></tr>
<tr><td>15</td><td>VDD</td><td>—</td><td>Power supply terminal. (+5V)</td></tr>
<tr><td>16</td><td>$\overline{\text{RESET}}$</td><td>I</td><td>Reset input terminal.</td></tr>
<tr><td>17</td><td>X1</td><td>I</td><td>Sub clock oscillation terminal. (input) (Connected to +5V.)</td></tr>
<tr><td>18</td><td>X2</td><td>O</td><td>Sub clock oscillation terminal. (output) (Not used.)</td></tr>
<tr><td>19</td><td>TEST</td><td>I</td><td>Test terminal. (Connect to GND.)</td></tr>
<tr><td>20</td><td>$\overline{\text{O. STB}}$</td><td>O</td><td>$\overline{\text{STB}}$ line to the shift register.</td></tr>
<tr><td>21</td><td>O. DATA</td><td>O</td><td>DATA line to the shift register.</td></tr>
<tr><td>22</td><td>O. CLK</td><td>O</td><td>CLK line to the shift register.</td></tr>
<tr><td>23</td><td>I/O SERIAL (DAT)</td><td>I/O</td><td>I/O serial line between DAT and FD-N55.</td></tr>
<tr><td>24</td><td>O. HSP</td><td>O</td><td>Motor speed control terminal of DECK and PB EQ control terminal.
"H" when high speed dubbing and CD high speed recording.</td></tr>
<tr><td>25</td><td>O. REC</td><td>O</td><td>Output terminal for switching between encoding and decoding DOLBY.
"H" when recording, "L" when dubbing.</td></tr>
<tr><td>26</td><td>I. K0</td><td>I</td><td rowspan="2"><table><tr><th colspan="5">Functions</th></tr><tr><th colspan="5">KEY DATA Input</th></tr><tr><th>O.T0 is"L"</th><th>O.T1 is"L"</th><th>O.T2 is"L"</th><th>O.T3 is"L"</th><th>O.T4 is"L"</th></tr><tr><td>REB SW input</td><td>PLAY1 SW input</td><td>FR1 SW input</td><td>CST1 SW input</td><td>No CD HI SPEED</td></tr><tr><td>REA SW input</td><td>PLAY2 SW input</td><td>FR2 SW input</td><td>CST2 SW input</td><td>No DOLBY B/C</td></tr></table></td></tr>
<tr><td>27</td><td>I. K1</td><td>I</td></tr>
<tr><td>28</td><td>O. T0</td><td>O</td><td rowspan="5">KEY SCAN output for K0 and K1.</td></tr>
<tr><td>29</td><td>O. T1</td><td>O</td></tr>
<tr><td>30</td><td>O. T2</td><td>O</td></tr>
<tr><td>31</td><td>O. T3</td><td>O</td></tr>
<tr><td>32</td><td>O. T4</td><td>O</td></tr>
</table>

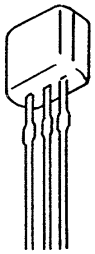
Pin No.	Pin Name	I/O	Description
33	O. $\overline{\text{MOTOR}}$	O	Output terminal for the main motor control of DECK1 and DECK2. "H" when both DECKs are stopped.
34	O. $\overline{\text{SOL, FR1}}$	O	Output terminal for FF/RWD solenoid drive of DECK1. Active "H".
35	O. $\overline{\text{SOL, PLAY1}}$	O	Output terminal for PLAY solenoid drive of DECK1. Active "H".
36	O. $\overline{\text{SOL, FR2}}$	O	Output terminal for FF/RWD solenoid drive of DECK2. Active "H".
37	O. $\overline{\text{SOL, PLAY2}}$	O	Output terminal for PLAY solenoid drive of DECK2. Active "H".
38	O. LMT	O	Output terminal for muting of REC/PB monitor output signal. "H" when muting.
39	O. BIAS	O	Output terminal for bias oscillation of DECK2. "H" when dubbing or recording.
40	VP	—	Connect to GND.
41	O. LED REC	O	"H" when the LED of REC lights ON.
42	O. LED REW	O	"H" when the LED of REW lights ON.
43	O. LED FF	O	"H" when the LED of FF lights ON.
44	O. LED STOP	O	"H" when the LED of STOP lights ON.
45	O. LED PAUSE	O	"H" when the LED of PAUSE lights ON.
46	O. LED▷PLAY	O	"H" when the LED of ▷ PLAY lights ON.
47	O. LED◁PLAY	O	"H" when the LED of ◁ PLAY lights ON.
48	O. EMPH (CD)	O	Switch of the emphasis when normal execution. "H" when switch is ON.
49	O. DST	O	"H" when LED of the cassette compartment lights ON.
50	O. OPEN (CD)	O	Output for tray opening. "H" when opening action.
51	O. CLOSE (CD)	O	Output for tray closing. "H" when closing action.
52	O. $\overline{\text{NSP}}$/HSP (CD)	O	Output for high speed action. "H" when high speed action.
53	O. MUTG (CD)	O	Muting output to DSP. Active "H".
54	O. DATA (CD)	O	Serial data output to DSP.
55	O. XLT (CD)	O	Lach output to serial data. Active "H".
56	O. LED⊃	O	"H" when LED of ⊃ lights ON.
57	O. POWER/LD ON (CD)	O	CD ON/OFF output. "H" when ON. ON/OFF output of the laser diode. "H" when ON.
58	I. SUBQ (CD)	I	Serial data of sub code Q.
59	I. SENS (CD)	I	Data of internal conditions corresponding to the address.
60	I. FOK (CD)	I	Indicates the conditions of the focus. "H" is input when the focus is adjusted right.
61	I. MS	I	Input terminal of MS signal. Active "H".
62	I. AUTO2	I	Input terminal of the reel pulse of DECK2.
63	I. AUTO1	I	Input terminal of the reel pulse of DECK1.
64	I/O CLK/SQCK (CD)	I/O	Serial data transmission clock.

TRANSISTOR ILLUSTRATION (FD – N55)

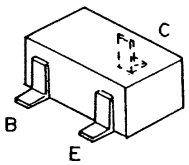
2SA933
2SA952
2SA1296
2SA1318
2SC1815
2SC2001
2SC3266
2SD655



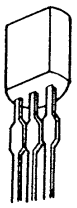
2SB1354



2SC1740
DTC114ES
DTC114YS
DTA123
DTA144ES



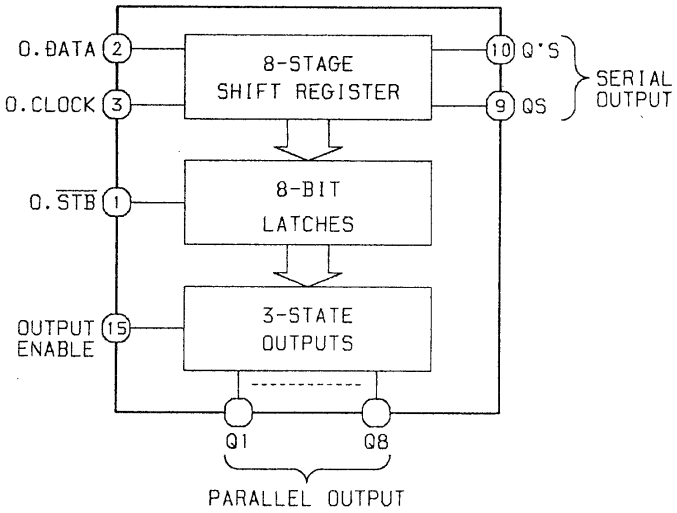
2SA1162
2SC2712
DTA114TK
DTC114
DTC124
DTC143
DTC144EK



2SK373

IC BLOCK DIAGRAM (FD – N55)

IC,BU4094B



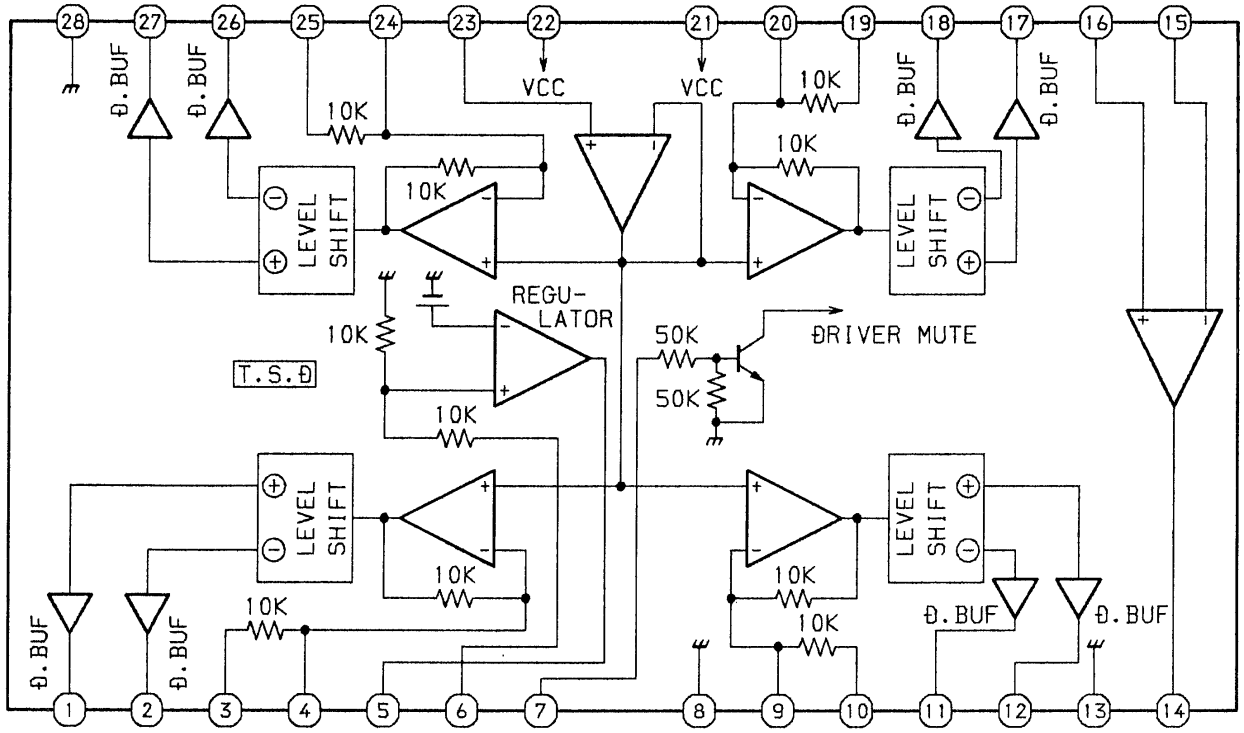
Q1:O.DOLBY ON Q5:O.PLAY
Q2:O.DOLBY C Q6:O.PB2
Q3:O.EXT.REC Q7:O.LED
Q4:O.INT.REC Q8:O.$\overline{RMT}$

TRUTH TABLE

CLOCK	OUTPUT ENABLE	STROBE	DATA	PARALLEL OUTPUTS		SERIAL OUTPUTS	
				Q1	Qn	QS	Q'S
↓	L	×	×	Z	Z	Q7	NO CHG.
↑	L	×	×	Z	Z	NO CHG.	QS
↓	H	L	×	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	×	×	NO CHG.	NO CHG.	NO CHG.	QS

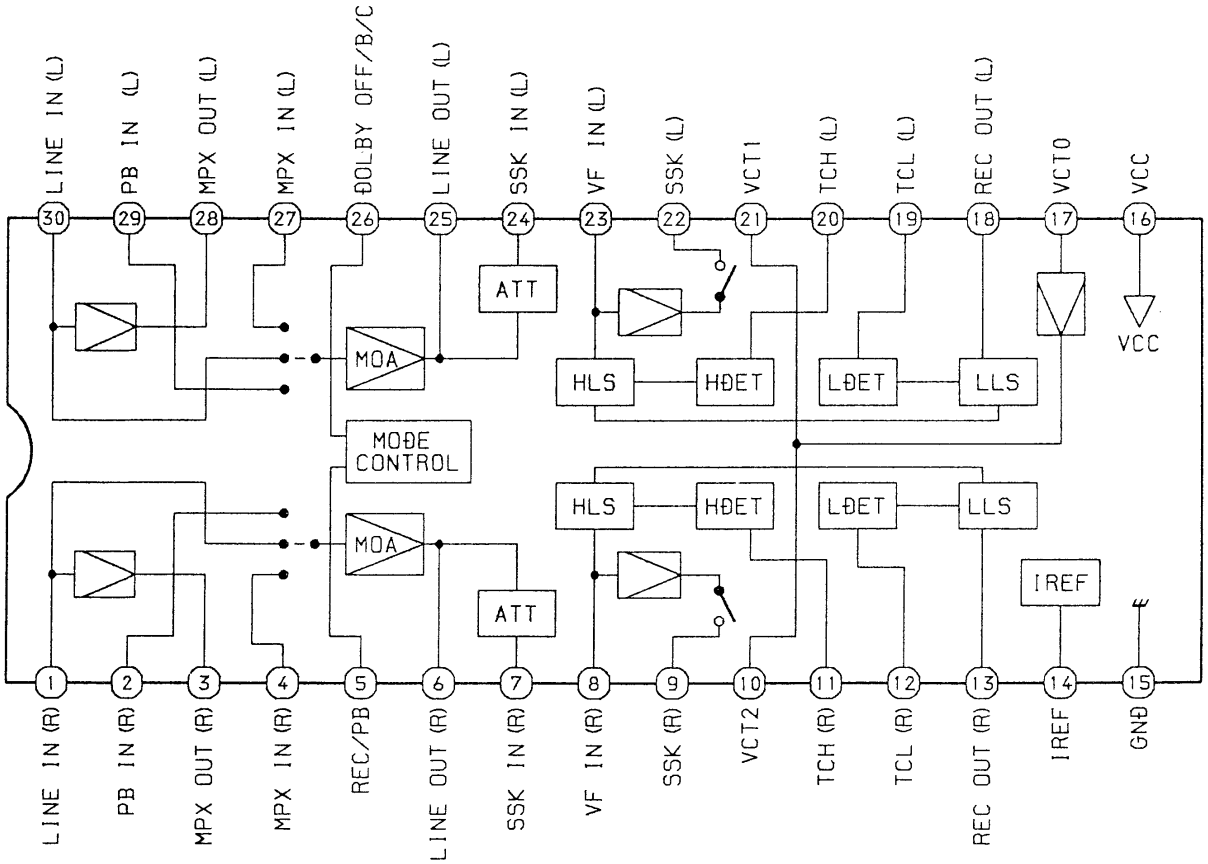
Z = HIGH IMPEDANCE
× = DON'T CARE

IC,BA6296FP

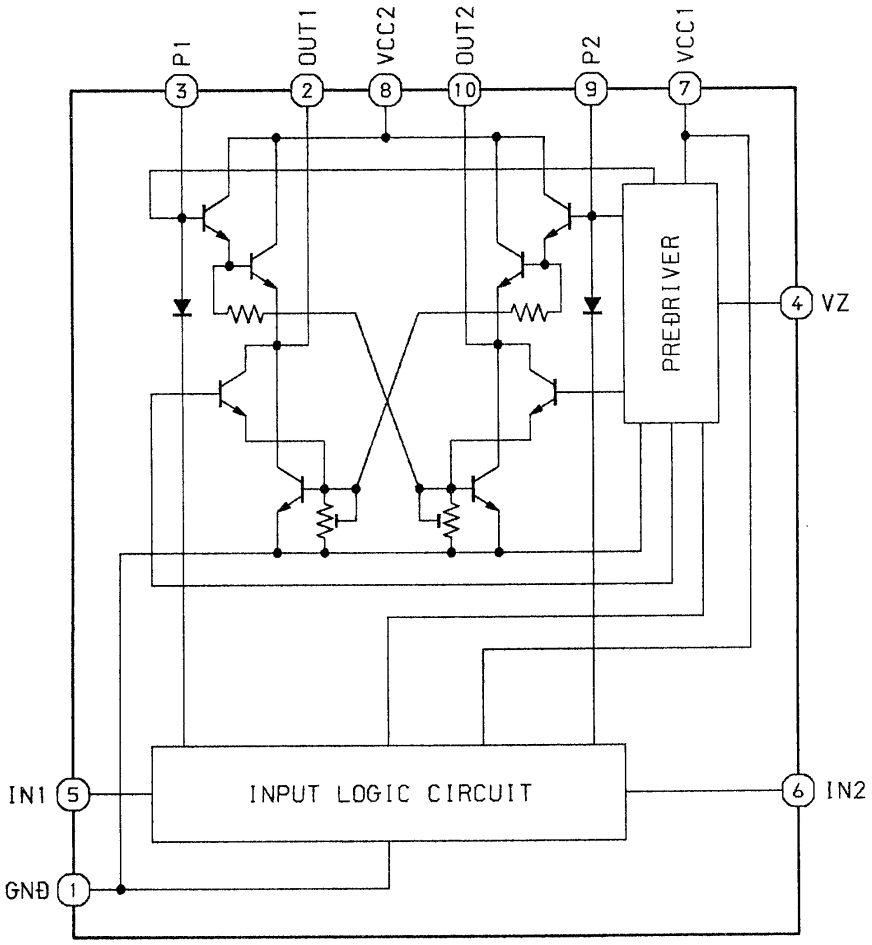


T.S.Đ:THERMAL SHUT ĐOWN
Đ.BUF:ĐRIVER BUFFER

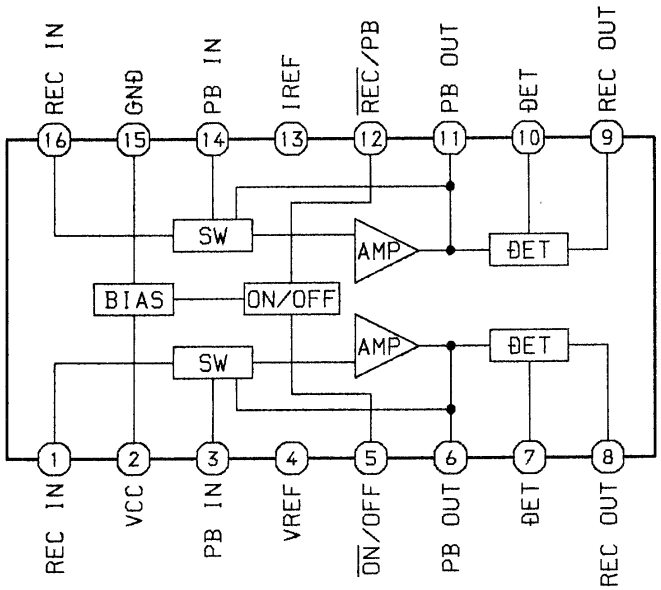
IC,CXA1332S



IC,LB1641

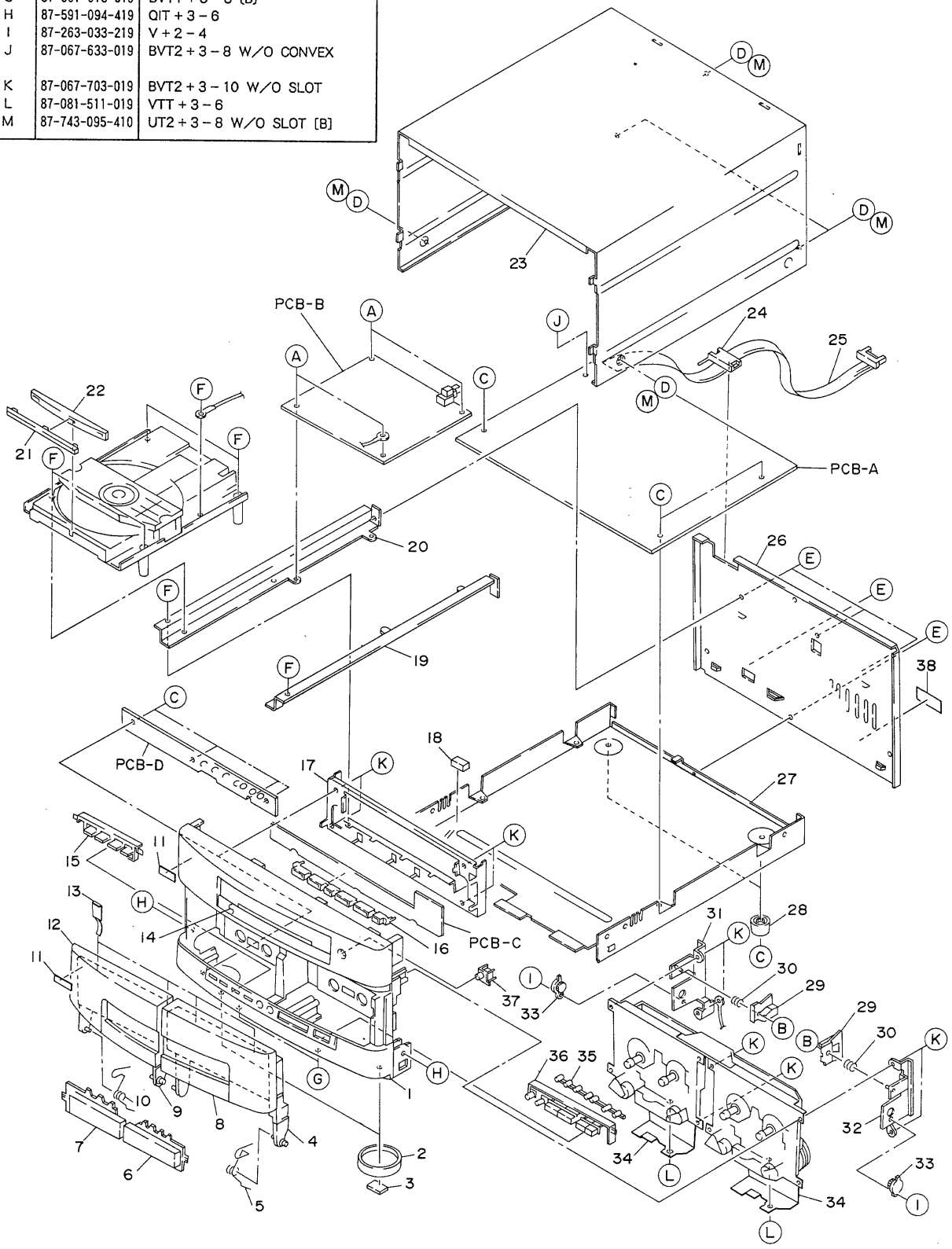


IC,HA12134A



EXPLODED VIEW – 1 (FD – N55)

REF. NO.	PART NO.	DESCRIPTION
A	87-067-777-019	BVTT + 3 – 6 W/CONVEX (B)
B	87-081-808-019	PW1.7 – 3.5 – 0.25
C	87-067-579-019	BVT2 + 3 – 8 W/O SLOT
D	87-067-641-019	UTT2 + 3 – 8 W/O SLOT (B)
E	87-067-660-019	BVT2 + 3 – 8 W/O SLOT (B)
F	87-067-688-019	BVTT + 3 – 6
G	87-067-673-019	BVTT + 3 – 8 (B)
H	87-591-094-419	QIT + 3 – 6
I	87-263-033-219	V + 2 – 4
J	87-067-633-019	BVT2 + 3 – 8 W/O CONVEX
K	87-067-703-019	BVT2 + 3 – 10 W/O SLOT
L	87-081-511-019	VTT + 3 – 6
M	87-743-095-410	UT2 + 3 – 8 W/O SLOT (B)



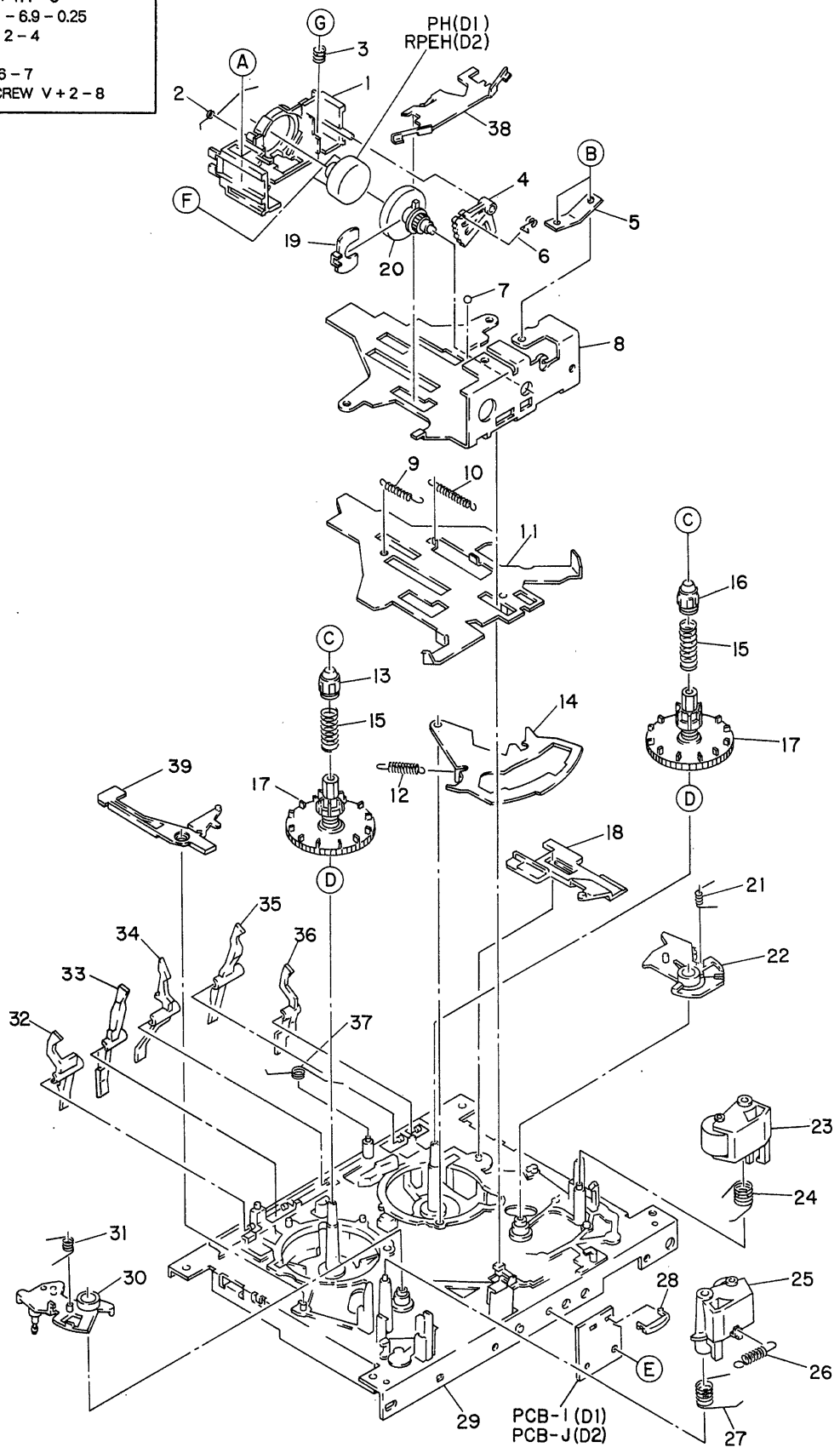
MECHANICAL PARTS LIST (FD – N55)

PART NO. CHANGED TO	REF. NO.	PART NO.	DESCRIPTION	COMMON MODEL	Q'TY
	1-1	★81-MV3-002-019	CABINET, FRONT [B] (YNE)	※	1
	1-1	★81-MV3-001-019	CABINET, FRONT [B] (Y, YJ)	※	1
	1-1	★81-MV3-081-019	CABINET, FRONT [B] (YHS)	※	1
	1-1	★81-MV3-023-019	CABINET, FRONT [B] (YK)	※	1
	1-1	★81-MV3-061-119	CABINET, FRONT [N] (YNE)	※	1
	1-1	★81-MV3-047-019	CABINET, FRONT [N] (YJ)	※	1
	1-1	★81-MV3-071-019	CABINET, FRONT [N] (YU)	※	1
	1-1	★81-MV3-062-119	CABINET, FRONT [N] (YK)	※	1
	1-2	★81-MT3-017-019	RING, FOOT [B]		2
	1-2	★81-MT3-052-019	RING, FOOT [N]		2
	1-3	★80-VT1-202-010	FELT,12.5 – 15.5 – 2		2
	1-4	★81-MV3-004-019	BOX, CASSETTE R [B]	※	1
	1-4	★81-MV3-053-019	BOX, CASSETTE R [N]	※	1
	1-5	★81-MV3-212-019	T – SPRING, EJECT R	※	1
	1-6	★81-MV3-020-019	WINDOW, BOX R	※	1
	1-7	★81-MV3-019-019	WINDOW, BOX L	※	1
	1-8	★81-MV3-026-019	PANEL, CASSETTE R [B] (EXCEPT FOR YHS)	※	1
	1-8	★81-MV3-083-019	PANEL, CASSETTE R [B] (YHS)	※	1
	1-8	★81-MV3-074-019	PANEL, CASSETTE R [N] (EXCEPT FOR YJ)	※	1
	1-8	★81-MV3-049-019	PANEL, CASSETTE R [N] (YJ)	※	1
	1-9	★81-MV3-003-019	BOX, CASSETTE L [B]	※	1
	1-9	★81-MV3-052-019	BOX, CASSETTE L [N]	※	1
	1-10	★81-MV3-211-019	T – SPRING, EJECT L	※	1
	1-11	★81-MX4-032-019	BADGE, AIWA		2
	1-12	★81-MV3-025-019	PANEL, CASSETTE L [B] (EXCEPT FOR YHS)	※	1
	1-12	★81-MV3-082-019	PANEL, CASSETTE L [B] (YHS)	※	1
	1-12	★81-MV3-073-019	PANEL, CASSETTE L [N] (EXCEPT FOR YJ)	※	1
	1-12	★81-MV3-048-019	PANEL, CASSETTE L [N] (YJ)	※	1
	1-13	★80-CD3-218-110	P – SPRING, CASSETTE		4
	1-14	★81-MV3-018-019	WINDOW, DISPLAY [B] (Y, YJ)	※	1
	1-14	★81-MV3-018-019	WINDOW, DISPLAY [N] (YJ)	※	1
	1-14	★81-MV3-021-019	WINDOW, DISPLAY [B] (YNE, YK)	※	1
	1-14	★81-MV3-021-019	WINDOW, DISPLAY [N] (YNE, YK, YU)	※	1
	1-14	★81-MV3-085-019	WINDOW, DISPLAY [B] (YHS)	※	1
	1-15	★81-MV3-014-019	KEY, DUBB	※	1
	1-16	★81-MV3-204-019	GUIDE, LED INDICATION	※	1
	1-17	★81-MV3-203-019	HOLDER, P.C.B FR	※	1
	1-18	★87-063-163-019	CUSHION, G 15 – 10 – 7		1
	1-19	★81-MV3-202-019	HOLDER, P.C.B CD R	※	1
	1-20	★81-MV3-201-019	HOLDER, P.C.B CD L	※	1
	1-21	★81-MV3-016-019	COVER, CD	※	1
	1-22	★81-MV3-017-019	PANEL, TRAY	※	1
	1-23	★81-MV3-043-019	CABINET, STEEL [B] (YNE, YK)	※	1
	1-23	★81-MT3-002-019	CABINET, STEEL [B] (Y, YJ, YHS)		1
	1-23	★81-MV3-065-018	CABINET, STEEL [N] (YNE, YK)	※	1
	1-23	★81-MV3-050-019	CABINET, STEEL [N] (YJ, YU)	※	1
	1-24	★89-VT5-202-010	BUSHING, CORD		1
	1-25	★81-MV3-626-010	CORD, FG 15P	※	1
	1-26	★81-MV3-080-019	PANEL, REAR [B] (Y)	※	1
	1-26	★81-MV3-011-019	PANEL, REAR [B] (YNE)	※	1
	1-26	★81-MV3-022-019	PANEL, REAR [B] (YJ)	※	1

PART NO. CHANGED TO	REF. NO.	PART NO.	DESCRIPTION	COMMON MODEL	Q'TY
	1-26	★81-MV3-079-019	PANEL, REAR (B) (YHS)	※	1
	1-26	★81-MV3-012-019	PANEL, REAR (B) (YK)	※	1
	1-26	★81-MV3-063-019	PANEL, REAR (N) (YNE)	※	1
	1-26	★81-MV3-058-019	PANEL, REAR (N) (YJ)	※	1
	1-26	★81-MV3-072-019	PANEL, REAR (N) (YU)	※	1
	1-26	★81-MV3-064-019	PANEL, REAR (N) (YK)	※	1
	1-27	---	CHASSIS, MAIN		1
	1-28	★87-085-223-019	FOOT, H9		2
	1-29	★80-CD3-233-010	PLATE, LOCK		2
	1-30	★80-MV3-210-110	C - SPRING, LOCK (Y)		2
	1-30	★80-MV3-218-019	C - SPRING, LOCK (EXCEPT FOR Y)		2
	1-31	★80-MV3-201-019	LOCK HOLDER ASSY 1		1
	1-32	★80-MV3-204-019	LOCK HOLDER ASSY 2		1
	1-33	★87-063-151-010	DAMPER, OIL 37		2
	1-34	★81-MV3-215-010	SHIELD, DECK	※	2
	1-35	★81-MV3-205-119	GUIDE, LED OPE	※	1
	1-36	★81-MV3-015-010	KEY, OPE	※	1
	1-37	★81-MV3-013-019	KEY, CD (B)	※	1
	1-37	★81-MV3-054-019	KEY, CD (N)	※	1
	1-38	★81-MT3-027-018	LABEL, DBP (B, N) (YNE)		1

EXPLODED VIEW – 2 (FD – N55)

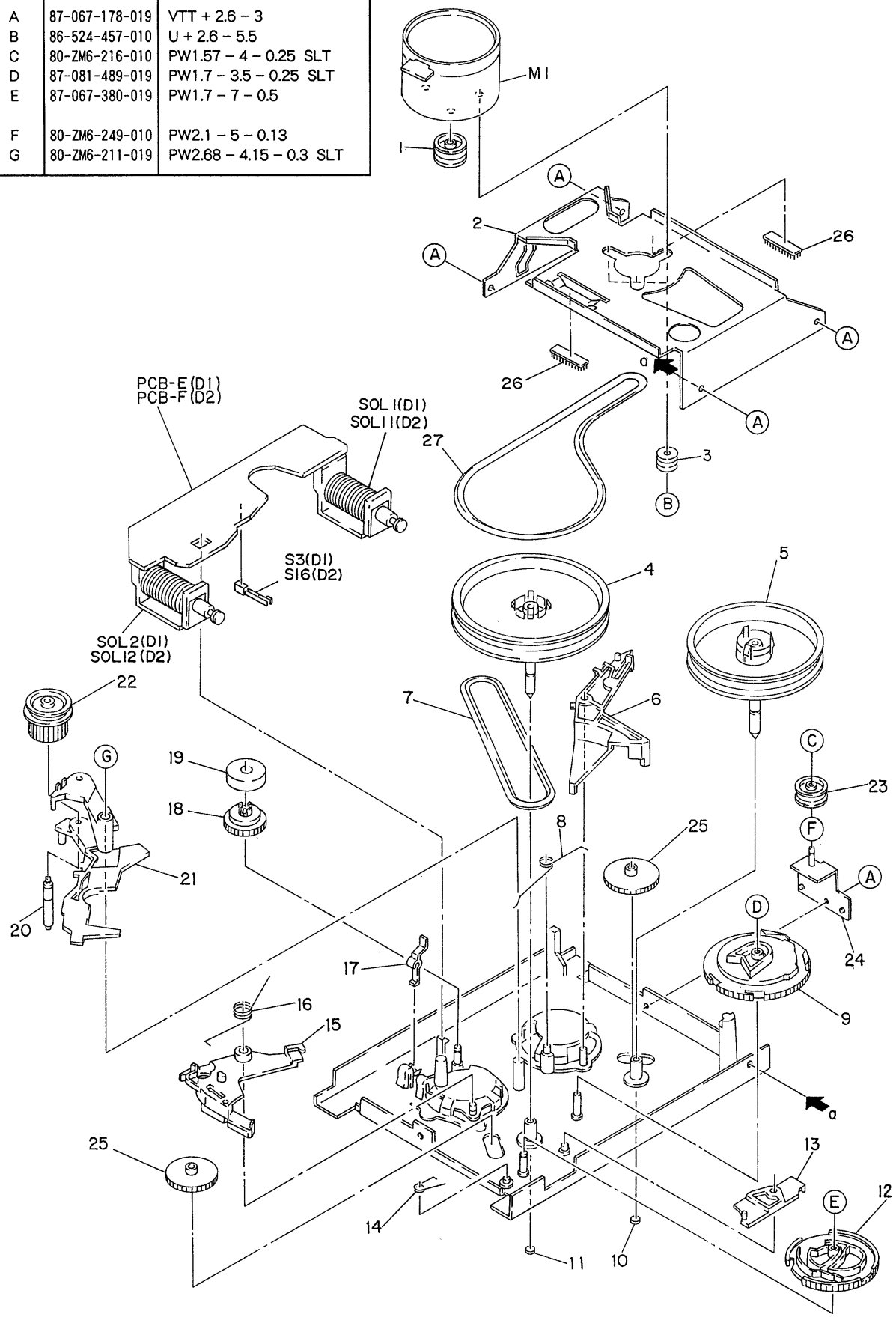
REF. NO.	PART NO.	DESCRIPTION
A	87-263-033-110	V + 2 – 4
B	80-ZM6-251-010	SCREW S AZIMUTH 2
C	86-524-418-010	VFT2 + 1.4 – 5
D	87-067-825-019	PW4.1 – 6.9 – 0.25
E	87-067-174-010	VTT + 2 – 4
F	80-ZM6-207-019	V + 1.6 – 7
G	86-575-363-210	S – SCREW V + 2 – 8



PART NO. CHANGED TO	REF. NO.	PART NO.	DESCRIPTION	COMMON MODEL	Q'TY
	2-1	★86-575-288-510	GUIDE, TAPE		1
	2-2	★86-575-310-219	T – SPRING, HEAD		1
	2-3	★86-541-318-119	C – SPRING, AZIMUTH		1
	2-4	★86-575-290-310	GEAR, SEGMENT		1
	2-5	★86-575-343-110	P – SPRING, AZIMUTH 2		1
	2-6	★80-ZM6-229-110	T – SPRING, GEAR SEG 2		1
	2-7	★87-073-018-019	BALL, STEEL 1.588		1
	2-8	★86-575-311-410	CHASSIS, HEAD		1
	2-9	★80-ZM6-268-019	E – SPRING, SLIDE 3		1
	2-10	★86-575-226-019	E – SPRING, CHASSIS HEAD		1
	2-11	★86-535-215-410	SLIDE PLATE ASSY		1
	2-12	★86-535-284-119	E – SPRING, DIRECTION LEVER		1
	2-13	★86-524-218-219	STOPPER, REEL TABLE S		1
	2-14	★86-535-218-310	DIRECTION LEVER ASSY		1
	2-15	★86-535-293-019	C – SPRING, REEL TABLE		2
	2-16	★86-524-233-219	STOPPER, REEL TABLE T		1
	2-17	★80-ZM6-254-110	REEL GEAR ASSY L		2
	2-18	★86-575-345-210	LEVER, SWITCH 2		1
	2-19	★86-575-305-010	PLATE, HOUSING		1
	2-20	★86-575-306-910	HOLDER, HOUSING		1
	2-21	★86-535-282-019	T – SPRING, PLAY GEAR F		1
	2-22	★86-535-238-310	LEVER, PLAY F		1
	2-23	86-535-226-310	PINCH LEVER ASSY F		1
	2-24	★86-575-222-110	T – SPRING, PINCH F		1
	2-25	86-535-228-410	PINCH LEVER ASSY R		1
	2-26	★86-575-339-019	E – SPRING, PINCH 22		1
	2-27	★86-575-341-110	T – SPRING, PINCH L		1
	2-28	---	HOLDER, WIRE 2		1
	2-29	★80-ZM6-201-810	MECHANISM CHASSIS ASSY		1
	2-30	★86-535-239-110	LEVER, PLAY R		1
	2-31	★86-535-283-019	T – SPRING, PLAY GEAR R		1
	2-32	★86-575-322-110	LEVER, REC A (D2)		1
	2-33	★86-575-325-210	LEVER, METAL (D2)		1
	2-34	★86-575-324-310	LEVER, CASSETTE		1
	2-35	★86-575-327-210	LEVER, CROM		1
	2-36	★86-575-323-010	LEVER, REC B (D2)		1
	2-37	★80-ZM6-206-019	T – SPRING, CASSETTE		1
	2-38	★86-575-347-110	P – SPRING, HEAD 2		1
	2-39	★86-535-242-210	LEVER, EJECT SAFETY		1

EXPLODED VIEW – 3 (FD – N55)

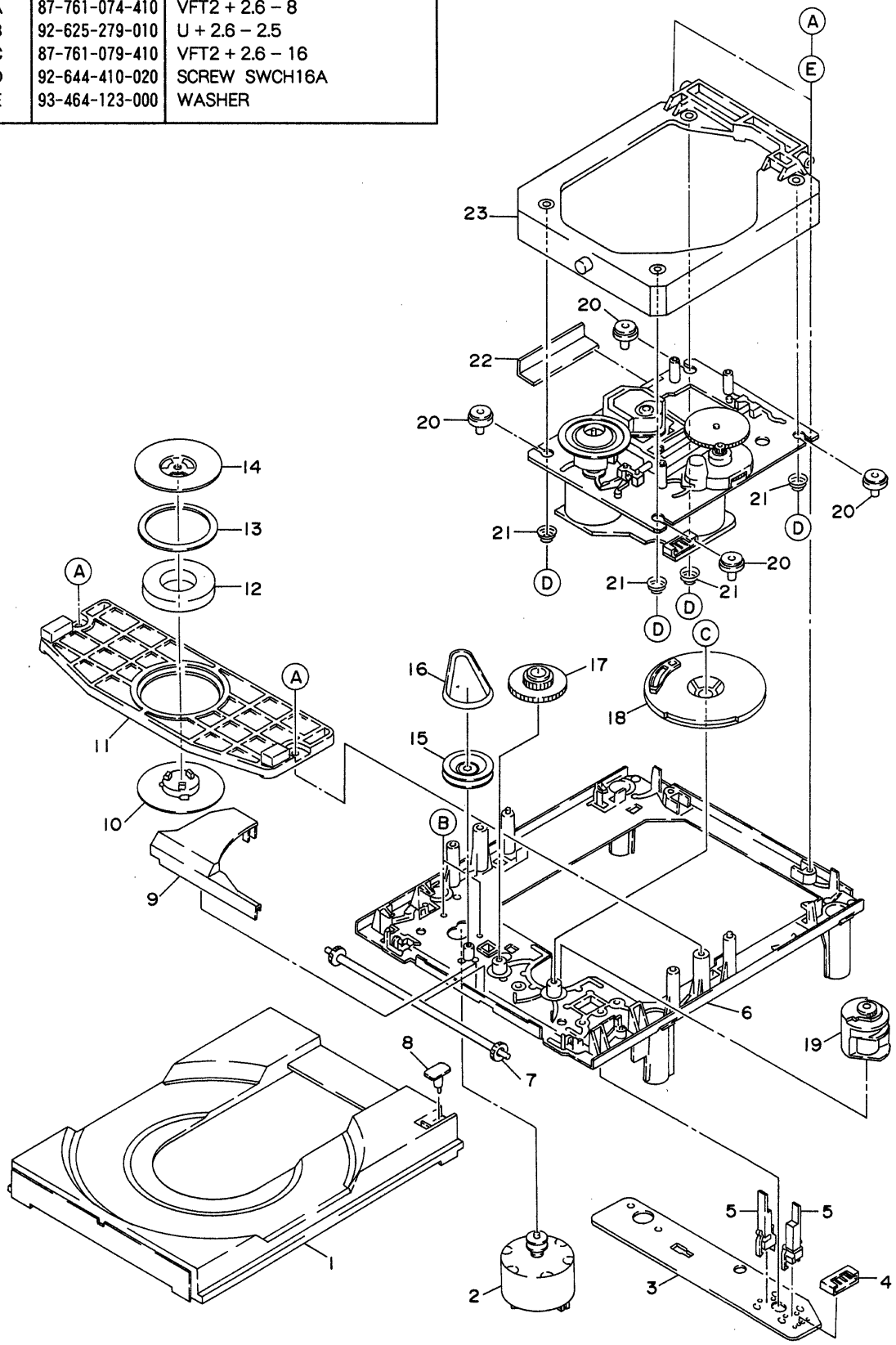
REF. NO.	PART NO.	DESCRIPTION
A	87-067-178-019	VTT + 2.6 – 3
B	86-524-457-010	U + 2.6 – 5.5
C	80-ZM6-216-010	PW1.57 – 4 – 0.25 SLT
D	87-081-489-019	PW1.7 – 3.5 – 0.25 SLT
E	87-067-380-019	PW1.7 – 7 – 0.5
F	80-ZM6-249-010	PW2.1 – 5 – 0.13
G	80-ZM6-211-019	PW2.68 – 4.15 – 0.3 SLT



PART NO. CHANGED TO	REF. NO.	PART NO.	DESCRIPTION	COMMON MODEL	Q'TY
	3-1	★81-ZM7-204-010	PULLEY, MOTOR 4		1
	3-2	★81-ZM7-201-110	HOLDER, MOTOR 3		1
	3-3	★86-513-441-210	COLLAR		3
	3-4	★80-ZM6-203-310	FLYWHEEL ASSY R1 (D1)		1
	3-4	★80-ZM6-262-110	FLYWHEEL ASSY R2 (D2)		1
	3-5	80-ZM6-208-310	FLYWHEEL ASSY L1		1
	3-6	★86-535-231-510	LEVER, TRIGGER PLAY		1
	3-7	80-ZM6-227-110	BELT, SQ 1.2 - 140		1
	3-8	★80-ZM6-205-110	T - SPRING, MAIN		1
	3-9	★86-575-312-210	CAM, MAIN		1
	3-10	★80-ZM6-243-019	SHEET 1.75 - 3.6 - 0.5 SLT		1
	3-11	★80-ZM6-242-019	SHEET 1.95 - 3.6 - 0.5 SLT		1
	3-12	★80-ZM6-219-210	CAM, FR MK 2 2M		1
	3-13	★86-575-229-210	LEVER, PAUSE B		1
	3-14	★86-535-291-210	T - SPRING, FR CAM		1
	3-15	★86-535-230-510	LEVER, TRIGGER FR		1
	3-16	★80-ZM6-220-019	T - SPRING, FR 2		1
	3-17	★86-575-326-310	LEVER, LINK		1
	3-18	★86-575-328-110	GEAR, IDLER		1
	3-19	★80-ZM6-217-010	MAGNET, RING 2		1
	3-20	★80-ZM6-222-110	SHAFT, FR PULLEY		1
	3-21	★80-ZM6-218-110	LEVER, FR 2		1
	3-22	★80-ZM6-272-010	GEAR, FR 2		1
	3-23	★80-ZM6-224-410	PULLEY, COUPLER (D1)		1
	3-24	★80-ZM6-213-110	HOLDER ASSY P (D1)		1
	3-25	★86-575-221-310	GEAR, PLAY		2
	3-26	★80-ZM6-230-019	SHEET, BELT		2
	3-27	★81-ZM7-202-110	BELT, SQ 1.3 - 262 (D2)		1
	3-27	★81-ZM7-203-110	BELT, SQ 1.3 - 274 (D1)		1

EXPLODED VIEW – 4 (FD – N55)

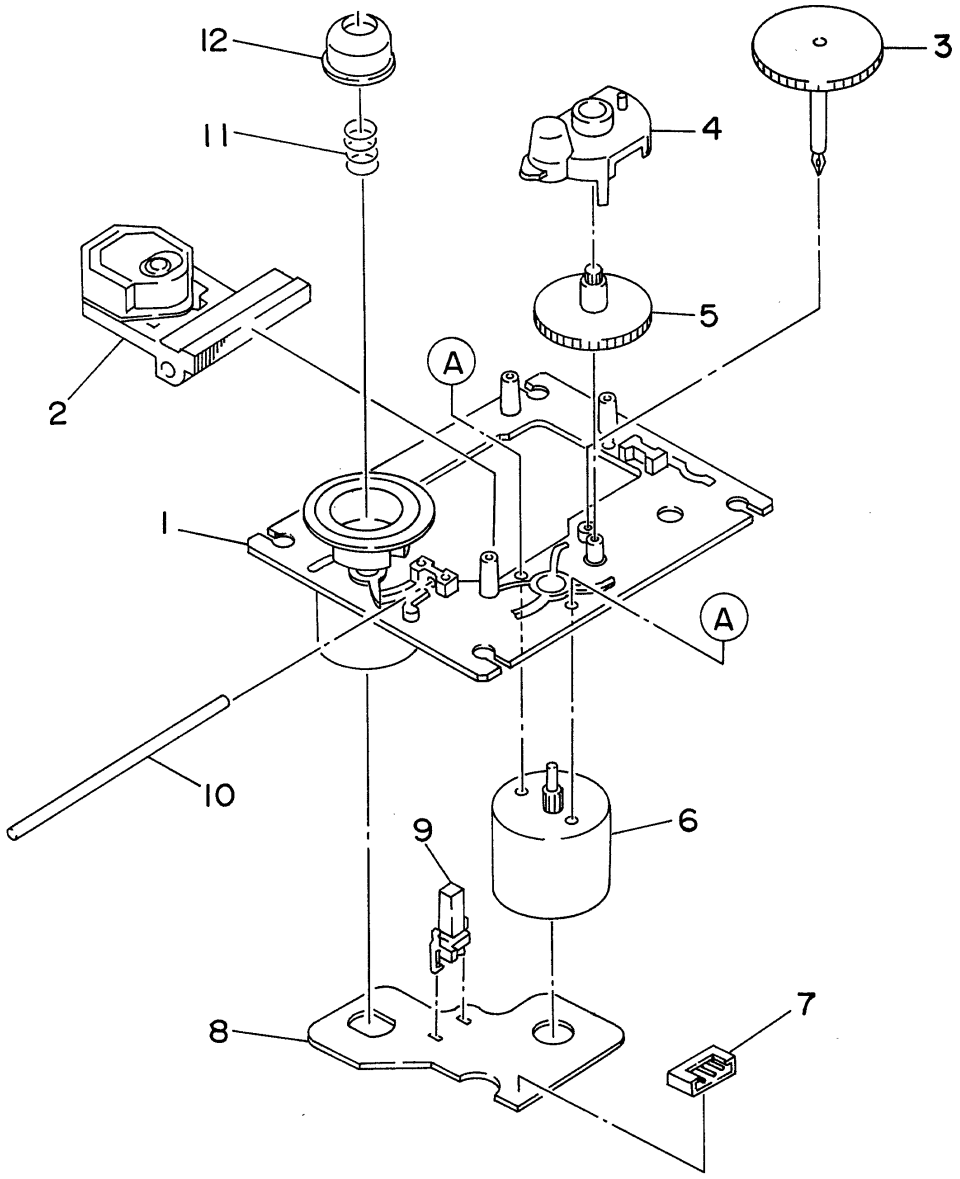
REF. NO.	PART NO.	DESCRIPTION
A	87-761-074-410	VFT2 + 2.6 – 8
B	92-625-279-010	U + 2.6 – 2.5
C	87-761-079-410	VFT2 + 2.6 – 16
D	92-644-410-020	SCREW SWCH16A
E	93-464-123-000	WASHER



PART NO. CHANGED TO	REF. NO.	PART NO.	DESCRIPTION	COMMON MODEL	Q'TY
	4-1	★92-625-288-040	TRAY		1
	4-2	★9X-262-511-710	LOADING MOTOR ASSY		1
	4-3	---	PWB, LOADING		1
	4-4	★91-564-721-110	CONNECTOR 5P		1
	4-5	91-572-086-110	SWITCH, LEAF		2
	4-6	---	CHASSIS, MAIN		1
	4-7	★92-625-275-030	GEAR, TRAY		1
	4-8	---	SW PIN		1
	4-9	★92-625-282-020	COVER, GEAR		1
	4-10	★92-625-286-030	PULLEY, CHUCKING		1
	4-11	★92-625-284-040	PLATE, CHUCKING		1
	4-12	★91-452-493-210	MAGNET		1
	4-13	★92-625-541-010	DAMPER		1
	4-14	★92-625-277-010	YOKE, CHUCK		1
	4-15	★92-625-276-010	PULLEY, LOADING		1
	4-16	★93-653-387-000	BELT, LM		1
	4-17	★92-625-274-020	GEAR, MEDDLE		1
	4-18	★92-625-285-030	GEAR, DRIVE		1
	4-19	★92-625-283-020	CAM, CONTROL		1
	4-20	★92-625-278-010	INSULATOR		4
	4-21	★92-625-280-010	SPRING		4
	4-22	---	PLATE, PUSH		1
	4-23	---	SUB CHASSIS ASSY W/INSU SHAFT		1

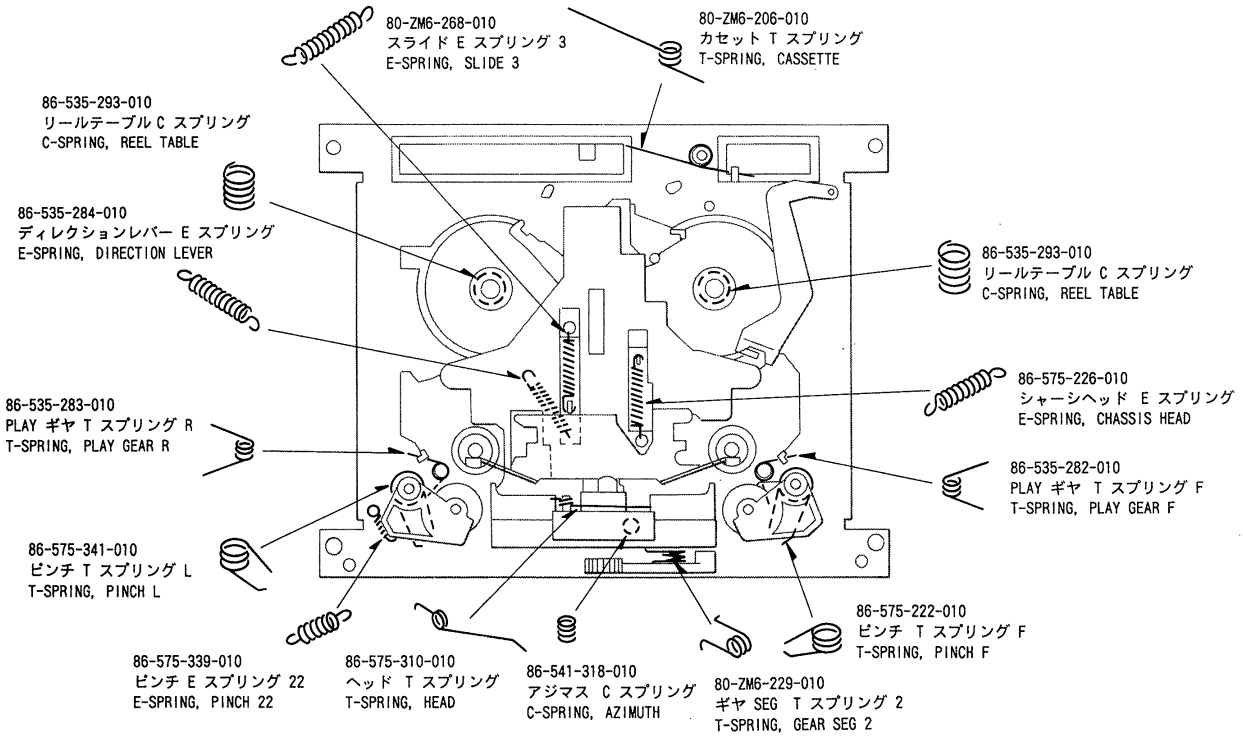
EXPLODED VIEW – 5 (FD – N55)

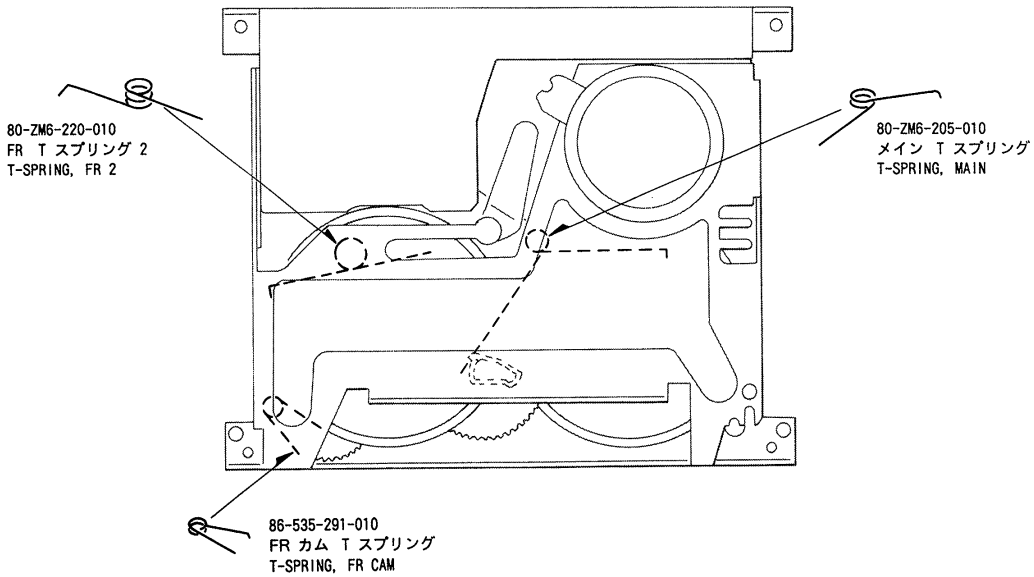
REF. NO.	PART NO.	DESCRIPTION
A	87-261-032-210	V + 2 – 3



PART NO. CHANGED TO	REF. NO.	PART NO.	DESCRIPTION	COMMON MODEL	Q'TY
	5-1	★9X-262-513-310	T.T CHASSIS ASSY W/MOTOR		1
	5-2	98-848-127-11Z	PICK UP KSS – 210A		1
	5-3	★92-625-188-020	GEAR, A		1
	5-4	★92-625-544-010	COVER		1
	5-5	---	GEAR, B		1
	5-6	★9X-262-513-210	SLED MOTOR ASSY		1
	5-7	★91-564-722-110	CONNECTOR 6P		1
	5-8	---	PWB, MOTOR		1
	5-9	91-572-085-110	SWITCH, LEAF LIMIT		1
	5-10	★94-917-565-010	SHAFT, SLED		1
	5-11	★92-625-191-010	SPRING, COMPRESSION		1
	5-12	★92-625-187-010	RING, CENTER		1

SPRING APPLICATION (FD－N55)





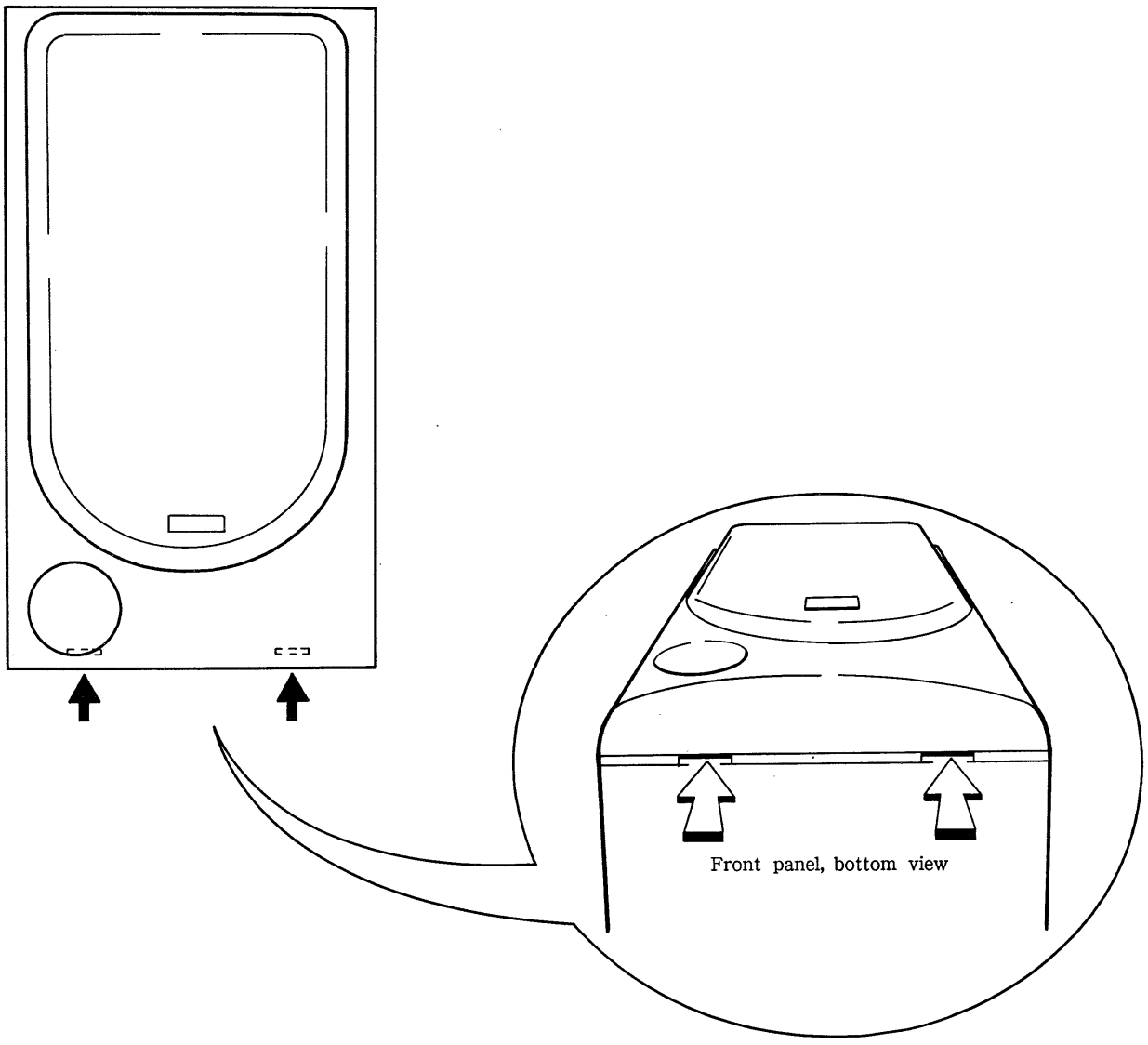
MODEL NO.

SX – N55

DISASSEMBLY INSTRUCTIONS (SX – N55)

- Insert a flat-bladed screwdriver into the position indicated by the arrows (shown in the below figure) and remove the front panel and tweeter. Remove the screws of each speaker unit and then remove the speaker units.

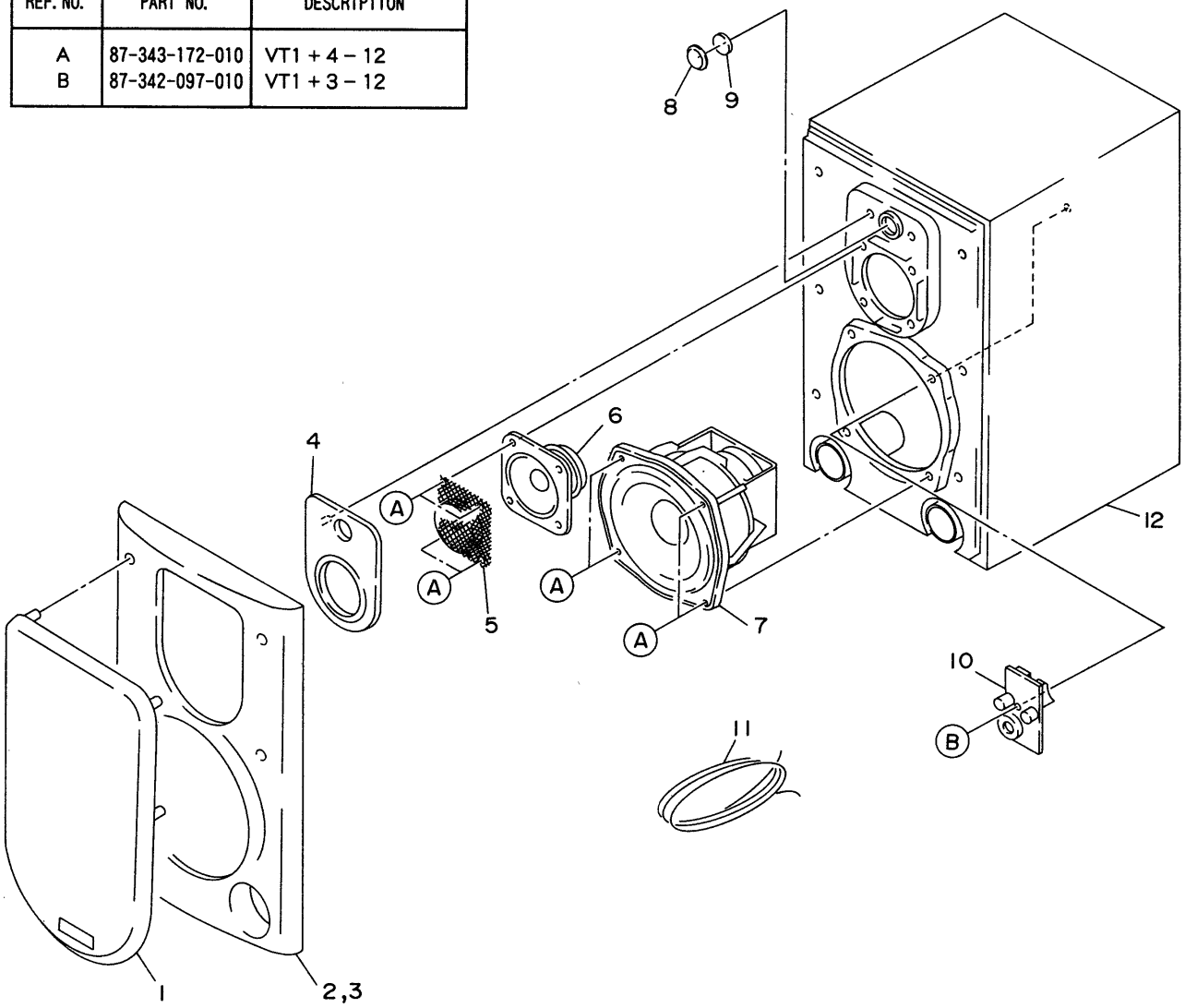
- SX-N55 (3 WAY SPEAKER • SYSTEM)



Front panel, bottom view

EXPLODED VIEW (SX – N55)

REF. NO.	PART NO.	DESCRIPTION
A	87-343-172-010	VT1 + 4 – 12
B	87-342-097-010	VT1 + 3 – 12



■ SPEAKER LIST (SX – N55)

PART NO. CHANGED TO	REF. NO.	PART NO.	DESCRIPTION	COMMON MODEL	Q'TY
	1	★81-MSD-009-010	GRILL FRAME ASSY	※	2
	2	★81-MSD-004-010	PANEL, FRONT (L)	※	1
	3	★81-MSD-005-010	PANEL, FRONT (R)	※	1
	4	★81-MSD-006-010	PANEL, TWEETER	※	2
	5	★81-MSD-007-010	MESH, TWEETER	※	2
	6	★81-MSD-603-010	SPEAKER, TWEETER	※	2
	7	★81-MSD-602-010	SPEAKER, WOOFER	※	2
	8	★81-MSD-011-010	CAP	※	2
	9	81-MSE-610-010	CERAMIC		2
	10	★81-MSD-611-010	TERMINAL ASSY	※	2
	11	83-096-614-010	CORD, SPEAKER		2
	12	---	CABINET		2

912162,912204,750038