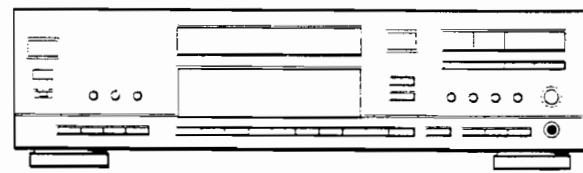


aiwa

XC-550
XC-950SERVICE
MANUAL

COMPACT DISC PLAYER

• BASIC CD MECHANISM : KSL - 2101ABM

• TYPE. E, K, HE (XC - 550)
E, K (XC - 950)

SPECIFICATIONS

XC - 550

Disc	Compact disc
Scanning method	Non contact optical scanner (semiconductor laser application)
Laser	Semiconductor laser ($\lambda = 780 \text{ nm}$)
Rotation speed	Approx. 500rpm-200rpm (CLV)
Error correction	Cross interleave, Reed Solomon code
No. of channels	2 channels
D-A conversion	1 bit
Wow/Flutter	Unmeasurable
Signal to noise ratio	97 dB (1 kHz, 0 dB)
Harmonic distortion	0.0035% (1 kHz, 0 dB)
Digital filter	8 times over sampling 18 bit digital filter
Output terminals	ANALOG OUT : 1.84V DIGITAL OUT : optical link connector
Power consumption	10W
Power requirements	E : 230V AC, 50 Hz K : 240V AC, 50 Hz HE : 120/220/240V AC, 50/60 Hz
Dimensions(W × H × D)	430 × 115 × 321 mm (17 × 4 ⁵ / ₈ × 12 ³ / ₄ in)
weight	4.4kg (9.7 lb)

• Design and specifications are subject to change without notice.

XC - 950

Disc	Compact disc
Scanning method	Non contact optical scanner (semiconductor laser application)
Laser	Semiconductor laser ($\lambda = 780 \text{ nm}$)
Rotation speed	Approx. 500rpm-200rpm (CLV)
Error correction	Cross interleave, Reed Solomon code
No. of channels	2 channels
D-A conversion	1 bit
Wow/Flutter	Unmeasurable
Signal to noise ratio	105 dB (1 kHz, 0 dB)
Harmonic distortion	0.0025% (1 kHz, 0 dB)
Digital filter	8 times over sampling 20 bit digital filter
Power consumption	15W
Power requirements	E : 230V AC, 50 Hz K : 240V AC, 50 Hz
Dimensions(W × H × D)	430 × 115 × 316 mm (17 × 4 ⁵ / ₈ × 12 ¹ / ₂ in)
weight	4.6kg (10.1 lb)

• Design and specifications are subject to change without notice.

AIWA CO., LTD.

Tokyo Japan

Printed in Japan

DISASSEMBLY INSTRUCTIONS

1. "Tray" Removal (See Figure - 1)

- 1) Remove the "Cabinet, Steel".
- 2) ♣For AUTOMATIC operation
Press the OPEN/CLOSE button to eject the "Tray".
♣For MANUAL operation
Insert a flat-head screwdriver into the hole at the bottom of the arrow to eject the "Tray".
(See Figure - 1)
- 3) Loosen 2 screws (A) and pull out the "Tray" toward you. (See Figure - 2)

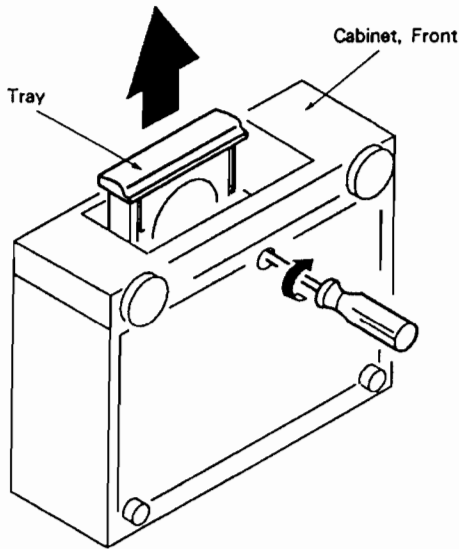


Fig - 1

2. "CD Mechanism" Removal (See Figure - 2)

- 1) Loosen 2 screws (A) and remove the "Tray", remove 3 screws (B) and remove "CD Mechanism".

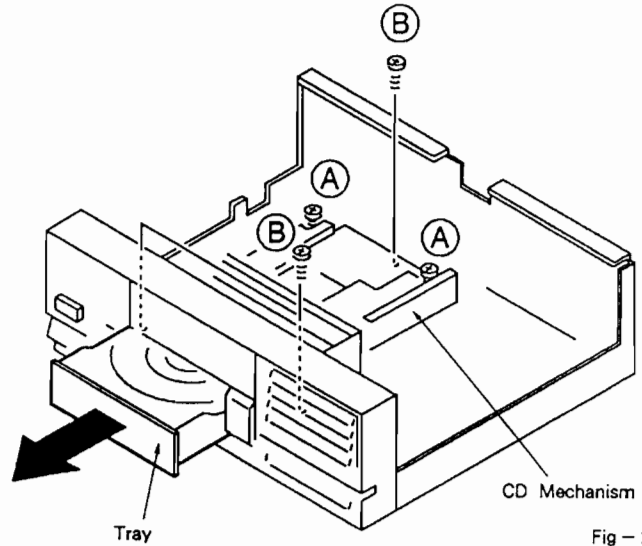


Fig - 2

■ ACCESSORIES/PACKAGE LIST

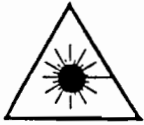
PART NO. CHANGED TO	REF. NO.	PART NO.	DESCRIPTION	COMMON MODEL	Q.TY
	1	★82-AC3-901-018	INSTRUCTION BOOKLET, E (XC - 550E, K)	※	1
	2	★82-AC3-901-019	INSTRUCTION BOOKLET, E (XC - 550H)	※	1
	3	★82-AC1-901-018	INSTRUCTION BOOKLET, E (XC - 950E, K)	※	1
	4	★82-AC3-951-010	REMOTE CONTROLLER RC - C550 (XC - 550E, K)	※	1
	5	★82-AC3-951-019	REMOTE CONTROLLER RC - C550 (XC - 550H)	※	1
	6	★82-AC1-951-010	REMOTE CONTROLLER RC - C950 (XC - 950E, K)	※	1
	7	★87-034-786-019	CORD, PIN 189 - 0760 (XC - 550H)		1
	8	★87-034-773-010	CORD, PIN R - 237W - 1M (XC - 550, 950E, K)		1

PROTECTION OF EYES FROM LASER BEAM DURING SERVICING

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

WARNING!!

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



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

VAROITUS!

Laitteen Käyttäminen muulla kuin tässä käyttöohjeessa mainitulla tavalla saattaa altistaa käyttäjän turvallisuusluokan 1 ylittävälle näkymättömälle lasersäteilylle.

WARNING!

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

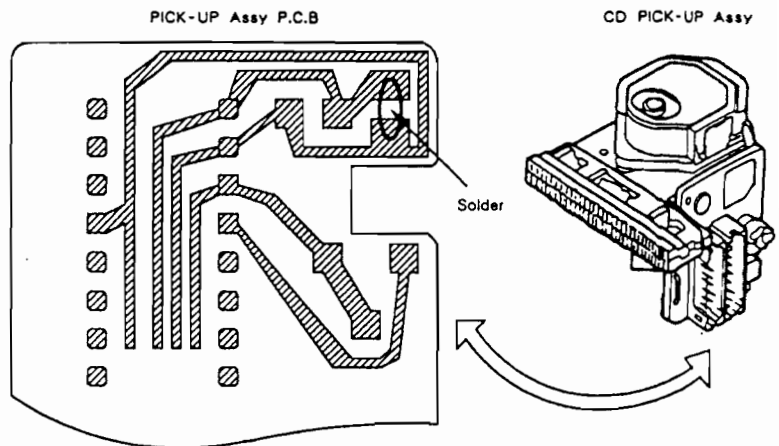
The CLASS 1 LASER PRODUCT label is located on the rear exterior.



Precaution to replace Optical block (KSS - 210A)

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

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



ELECTRICAL MAIN PARTS LIST

XC - 550

REF. NO.	PART NO.	DESCRIPTION	REF. NO.	PART NO.	DESCRIPTION
===IC===					
	87-001-440-010	IC, BA15218N	C162	★87-010-374-089	CAP, ELECT 47-10
	87-001-184-010	IC, CXA1081S	C164	★87-010-374-089	CAP, ELECT 47-10
	87-001-400-010	IC, CXA1082S	C165	★87-010-131-089	CAP, ELECT 0.47-50 BP
	87-001-944-010	IC, CXD-1167Q	C167	★87-018-202-089	CAP, CERA-SOL SS 6800P-16 X
	80-AC4-608-010	IC, CXP50112-198Q	C168	★87-018-202-089	CAP, CERA-SOL SS 6800P-16 X
	87-002-211-010	IC, GP1F32T(DIGITAL OUT)	C171	★87-018-134-089	CAP, CERA-SOL SS 0.01-16 Y
▲	87-001-486-080	IC, ICP-N15	C172	★87-018-134-089	CAP, CERA-SOL SS 0.01-16 Y
	87-001-173-010	IC, LA6510	C173	★87-010-263-089	CAP, ELECT 100-10
	87-002-348-010	IC, NJM4580D	C174	★87-018-131-089	CAP, CERA-SOL SS 1000P-50 B
	87-001-641-010	IC, NJM779M05FA	C175	★87-010-405-089	CAP, ELECT 10-50 SME
	87-020-903-010	IC, NJM7805FA	C176	★87-018-103-089	CAP, CERA-SOL SS 8.2P-50 SL
	87-020-910-089	IC, PST-523F	C177	★87-018-132-089	CAP, CERA-SOL SS 2200P-16 X
	87-002-347-010	IC, SAA7350	C178	★87-010-265-089	CAP, ELECT 33-16 SME
	87-001-790-010	IC, SBX1610-52 UNIT(REMOTE SENSOR)	C179	★87-010-384-089	CAP, ELECT 100-25 SME
	87-002-279-010	IC, SM5840ES	C180	★87-010-265-089	CAP, ELECT 33-16 SME
	87-001-169-010	IC, STA341M	C181	★87-010-374-089	CAP, ELECT 47-10
===TRANSISTOR===					
	89-213-292-089	TRANSISTOR, 2SB1329Q	C182	★87-010-374-089	CAP, ELECT 47-10
	89-213-321-089	TRANSISTOR, 2SB1332R(T105)	C183	★87-010-374-089	CAP, ELECT 47-10
	87-026-500-089	TRANSISTOR, 2SD2144S, UV(TP)	C191	★87-010-400-089	CAP, ELECT 0.47-50 SME
	87-026-219-089	TRANSISTOR, DTA144ES	C192	★87-018-134-089	CAP, CERA-SOL SS 0.01-16 Y
	87-026-464-089	TRANSISTOR, DTC114TS	C193	★87-018-209-089	CAP, CERA-SOL SS 0.1-50 F
	87-026-218-089	TRANSISTOR, DTC144ES	C301	★87-018-150-089	CAP, CERA-SOL SS 18P-50 CH
			C302	★87-018-150-089	CAP, CERA-SOL SS 18P-50 CH
			C311	★87-018-117-089	CAP, CERA-SOL SS 68P-50 SL
			C312	★87-018-117-089	CAP, CERA-SOL SS 68P-50 SL
			C313	★87-018-117-089	CAP, CERA-SOL SS 68P-50 SL
			C314	★87-018-117-089	CAP, CERA-SOL SS 68P-50 SL
			C315	★87-018-119-089	CAP, CERA-SOL SS 100P-50 B
===DIODE===					
	87-027-376-019	DIODE, 1B4B41	C316	★87-018-119-089	CAP, CERA-SOL SS 100P-50 B
	87-001-574-089	DIODE, 1SR139-200	C317	★87-018-119-089	CAP, CERA-SOL SS 100P-50 B
	87-020-465-089	DIODE, 1SS133	C318	★87-018-119-089	CAP, CERA-SOL SS 100P-50 B
	87-001-187-010	DIODE, SS277B LC6	C323	★87-014-069-089	CAP, PP 3300P-100 J
	87-027-661-089	DIODE, ZENER HZ30-2L	C324	★87-014-069-089	CAP, PP 3300P-100 J
	87-027-393-089	DIODE, ZENER HZ4C-2	C325	★87-014-047-089	CAP, PP 390P-100 J
	87-027-555-089	DIODE, ZENER HZ5C2	C326	★87-014-047-089	CAP, PP 390P-100 J
			C329	★87-010-914-080	CAP, ELECT 47-10 BP ASF
===MAIN CIRCUIT BOARD SECTION===					
C101	★87-018-115-089	CAP, CERA-SOL SS 47P-50 SL	C330	★87-010-914-080	CAP, ELECT 47-10 BP ASF
C102	★87-018-115-089	CAP, CERA-SOL SS 47P-50 SL	C337	★87-018-134-089	CAP, CERA-SOL SS 0.01-16 Y
C103	★87-018-115-089	CAP, CERA-SOL SS 47P-50 SL	C338	★87-018-134-089	CAP, CERA-SOL SS 0.01-16 Y
C104	★87-018-119-089	CAP, CERA-SOL SS 100P-50 B	C341	★87-018-127-089	CAP, CERA-SOL SS 470P-50 B
C105	★87-018-115-089	CAP, CERA-SOL SS 47P-50 SL	C342	★87-018-127-089	CAP, CERA-SOL SS 470P-50 B
C106	★87-018-115-089	CAP, CERA-SOL SS 47P-50 SL	C343	★87-018-127-089	CAP, CERA-SOL SS 470P-50 B
C107	★87-010-404-089	CAP, ELECT 4.7-50 SME	C344	★87-018-127-089	CAP, CERA-SOL SS 470P-50 B
C108	★87-010-404-089	CAP, ELECT 4.7-50 SME	C351	★87-010-374-089	CAP, ELECT 47-10
C109	★87-010-401-089	CAP, ELECT 1-50 SME	C352	★87-010-374-089	CAP, ELECT 47-10
C111	★87-010-400-089	CAP, ELECT 0.47-50 SME	C353	★87-018-134-089	CAP, CERA-SOL SS 0.01-16 Y
C112	★87-018-133-089	CAP, CERA-SOL SS 4700P-16 X	C354	★87-018-134-089	CAP, CERA-SOL SS 0.01-16 Y
C113	★87-010-374-089	CAP, ELECT 47-10	C355	★87-010-374-089	CAP, ELECT 47-10
C114	★87-018-134-089	CAP, CERA-SOL SS 0.01-16 Y	C356	★87-010-374-089	CAP, ELECT 47-10
C115	★87-018-134-089	CAP, CERA-SOL SS 0.01-16 Y	C357	★87-018-134-089	CAP, CERA-SOL SS 0.01-16 Y
C116	★87-018-134-089	CAP, CERA-SOL SS 0.01-16 Y	C358	★87-018-134-089	CAP, CERA-SOL SS 0.01-16 Y
C117	★87-010-370-089	CAP, ELECT 330-6.3 SME	C359	★87-010-374-089	CAP, ELECT 47-10
C118	★87-010-408-089	CAP, ELECT 47-50 SME	C360	★87-010-374-089	CAP, ELECT 47-10
C119	★87-010-370-089	CAP, ELECT 330-6.3 SME	C361	★87-010-374-089	CAP, ELECT 47-10
C132	★87-018-134-089	CAP, CERA-SOL SS 0.01-16 Y	C362	★87-010-374-089	CAP, ELECT 47-10
C134	★87-010-404-089	CAP, ELECT 4.7-50 SME	C363	★87-010-374-089	CAP, ELECT 47-10
C135	★87-018-131-089	CAP, CERA-SOL SS 1000P-50 B	C364	★87-010-374-089	CAP, ELECT 47-10
C139	★87-010-403-089	CAP, ELECT 3.3-50 SME	C365	★87-010-374-089	CAP, ELECT 47-10
C142	★87-018-209-089	CAP, CERA-SOL SS 0.1-50 F	C366	★87-010-374-089	CAP, ELECT 47-10
C143	★87-018-111-089	CAP, CERA-SOL SS 27P-50 SL	C382	★87-018-115-089	CAP, CERA-SOL SS 47P-50 SL
C151	★87-018-132-089	CAP, CERA-SOL SS 2200P-16 X	C383	★87-018-115-089	CAP, CERA-SOL SS 47P-50 SL
C152	★87-018-134-089	CAP, CERA-SOL SS 0.01-16 Y	C384	★87-018-115-089	CAP, CERA-SOL SS 47P-50 SL
C153	★87-018-127-089	CAP, CERA-SOL SS 470P-50 B	C385	★87-018-115-089	CAP, CERA-SOL SS 47P-50 SL
C156	★87-010-405-089	CAP, ELECT 10-50 SME	C386	★87-018-131-089	CAP, CERA-SOL SS 1000P-50 B
C157	★87-010-401-089	CAP, ELECT 1-50 SME	C387	★87-018-134-089	CAP, CERA-SOL SS 0.01-16 Y
C159	★87-018-134-089	CAP, CERA-SOL SS 0.01-16 Y	C388	★87-018-134-089	CAP, CERA-SOL SS 0.01-16 Y
C160	★87-010-404-089	CAP, ELECT 4.7-50 SME	C401	★87-010-124-099	CAP, ELECT 4700-16
C161	★87-010-374-089	CAP, ELECT 47-10	C402	★87-015-997-099	CAP, ELECT 2200-16 SME

REF. NO.	PART NO.	DESCRIPTION	REF. NO.	PART NO.	DESCRIPTION
C403	★87-018-134-089	CAP, CERA-SOL SS 0.01-16 Y	SW218	87-036-215-089	SW, TACT (▶PLAY) (HE)
C404	★87-018-134-089	CAP, CERA-SOL SS 0.01-16 Y	SW218	87-036-259-088	SW, TACT (▶PLAY) (E, K)
C405	★87-010-263-089	CAP, ELECT 100-10	SW219	87-036-215-089	SW, TACT (◀SKIP) (HE)
C406	★87-010-263-089	CAP, ELECT 100-10	SW219	87-036-259-088	SW, TACT (◀SKIP) (E, K)
C407	★87-010-410-089	CAP, ELECT 330-50 SME	SW220	87-036-215-089	SW, TACT (▶▶SKIP) (HE)
C408	★87-018-209-089	CAP, CERA-SOL SS 0.1-50 F	SW220	87-036-259-088	SW, TACT (▶▶SKIP) (E, K)
C409	★87-018-209-089	CAP, CERA-SOL SS 0.1-50 F	SW221	87-036-215-089	SW, TACT (▶▶SEARCH) (HE)
C410	★87-010-235-089	CAP, ELECT 470-16 SME	SW221	87-036-259-088	SW, TACT (▶▶SEARCH) (E, K)
C411	★87-018-134-089	CAP, CERA-SOL SS 0.01-16 Y	SW222	87-036-215-089	SW, TACT (▶▶SEARCH) (HE)
C420	★87-018-214-019	CAP, CERA-SOL SS 0.1-50 F	SW222	87-036-259-088	SW, TACT (▶▶SEARCH) (E, K)
C481	★87-010-101-089	CAP, ELECT 220-16 SME	SW223	87-036-215-089	SW, TACT (▲OPEN/CLOSE) (HE)
C482	★87-010-101-089	CAP, ELECT 220-16 SME	SW223	87-036-259-088	SW, TACT (▲OPEN/CLOSE) (E, K)
C499	★87-018-214-019	CAP, CERA-SOL SS 0.1-50 F	===FRONT-2 CIRCUIT BOARD SECTION===		
EM102	★87-008-372-089	FILTER, EMI BL	SW224	87-036-215-089	SW, TACT (TIME)
EM103	★87-008-372-089	FILTER, EMI BL	SW225	87-036-215-089	SW, TACT (BLANK)
EM104	★87-008-372-089	FILTER, EMI BL	SW226	87-036-215-089	SW, TACT (RANDOM)
EM301	★87-008-372-089	FILTER, EMI BL	SW227	87-036-215-089	SW, TACT (→)
EM303	★87-008-372-089	FILTER, EMI BL	SW228	87-036-215-089	SW, TACT (←)
EM304	★87-008-372-089	FILTER, EMI BL	SW229	87-036-215-089	SW, TACT (1/ALL)
J101	★87-009-052-019	JACK, PIN 2P (ANALOG OUT)	===PT CIRCUIT BOARD SECTION===		
J102	87-002-211-010	IC, GP1F32T (DIGITAL OUT)	▲C421	★87-019-113-090	CAP, ELECT SG2200P-400 (FMG)
R116	★87-025-429-089	RES, M/F 47K-1/6W F	▲PT401	82-AC3-605-029	POWER TRANSFORMER H (HE)
R117	★87-025-429-089	RES, M/F 47K-1/6W F	▲PT401	82-AC3-603-018	POWER TRANSFORMER E/Z (E)
SFR101	★87-024-169-089	SFR, 2.2K	▲PT401	82-AC3-604-019	POWER TRANSFORMER K (K)
SFR151	★87-024-173-089	SFR, 22K	▲SW401	★87-036-015-019	SW, PUSH (POWER)
SFR152	★87-024-173-089	SFR, 22K	▲SW402	★87-036-229-019	SW, SLIDE (AC VOLTAGE) (HE)
SFR153	★87-024-173-089	SFR, 22K	===HP CIRCUIT BOARD SECTION===		
SFR154	★87-024-173-089	SFR, 22K	C371	★87-010-374-089	CAP, ELECT 47-10
X301	★84-733-617-019	RESONATOR, CRYSTAL 16.9344MHZ	C372	★87-010-374-089	CAP, ELECT 47-10
===FRONT-1 CIRCUIT BOARD SECTION===			C373	★87-018-134-089	CAP, CERA-SOL SS 0.01-16 Y
FL201	★89-AC3-609-010	FL, FV401G (DISPLAY)	C374	★87-018-134-089	CAP, CERA-SOL SS 0.01-16 Y
FW201	★89-AC1-641-110	CABLE, FLAT	C391	★87-018-134-089	CAP, CERA-SOL SS 0.01-16 Y
SW201	87-036-215-089	SW, TACT (1) (HE)	C392	★87-018-134-089	CAP, CERA-SOL SS 0.01-16 Y
SW201	87-036-259-088	SW, TACT (1) (E, K)	C393	★87-018-134-089	CAP, CERA-SOL SS 0.01-16 Y
SW202	87-036-215-089	SW, TACT (2) (HE)	EM391	★87-008-372-089	FILTER, EMI BL
SW202	87-036-259-088	SW, TACT (2) (E, K)	EM392	★87-008-372-089	FILTER, EMI BL
SW203	87-036-215-089	SW, TACT (3) (HE)	EM393	★87-008-372-089	FILTER, EMI BL
SW203	87-036-259-088	SW, TACT (3) (E, K)	J302	★87-009-043-019	JACK, 6.3 (PHONES)
SW204	87-036-215-089	SW, TACT (4) (HE)	VR301	★82-AC3-608-010	VR, 50KX2 (LEVEL)
SW204	87-036-259-088	SW, TACT (4) (E, K)	===MOTOR-1 CIRCUIT BOARD SECTION===		
SW205	87-036-215-089	SW, TACT (5) (HE)	M1	9X-262-513-210	MOTOR GEAR ASSY (SLED)
SW205	87-036-259-088	SW, TACT (5) (E, K)	M2	9X-262-513-310	MOTOR ASSY (W/CHASSIS, T. T) (SPINDLE)
SW206	87-036-215-089	SW, TACT (6) (HE)	SW1	91-572-086-110	SW, LEAF (INSIDE LIMIT)
SW206	87-036-259-088	SW, TACT (6) (E, K)	===MOTOR-2 CIRCUIT BOARD SECTION===		
SW207	87-036-215-089	SW, TACT (7) (HE)	M3	9X-262-511-710	MOTOR ASSY (LOADING)
SW207	87-036-259-088	SW, TACT (7) (E, K)	SW2	91-572-086-110	SW, LEAF (OPEN)
SW208	87-036-215-089	SW, TACT (8) (HE)	SW3	91-572-086-110	SW, LEAF (CLOSE)
SW208	87-036-259-088	SW, TACT (8) (E, K)	===MISCELLANEOUS===		
SW209	87-036-215-089	SW, TACT (9) (HE)	98-848-127-11Z	OPTICAL PICK UP KSS-210A	
SW209	87-036-259-088	SW, TACT (9) (E, K)	▲	★82-187-797-019	AC CORD (E) (HE)
SW210	87-036-215-089	SW, TACT (10) (HE)	▲	★87-034-781-018	AC CORD (E) (E)
SW210	87-036-259-088	SW, TACT (10) (E, K)	▲	★87-034-592-018	AC CORD (K) (K)
SW211	87-036-215-089	SW, TACT (>10) (HE)	▲	★87-085-185-010	BUSHING, AC CORD
SW211	87-036-259-088	SW, TACT (>10) (E, K)			
SW212	87-036-215-089	SW, TACT (PRGM) (HE)			
SW212	87-036-259-088	SW, TACT (PRGM) (E, K)			
SW213	87-036-215-089	SW, TACT (CHECK) (HE)			
SW213	87-036-259-088	SW, TACT (CHECK) (E, K)			
SW214	87-036-215-089	SW, TACT (DELETE) (HE)			
SW214	87-036-259-088	SW, TACT (DELETE) (E, K)			
SW215	87-036-215-089	SW, TACT (AC) (HE)			
SW215	87-036-259-088	SW, TACT (AC) (E, K)			
SW216	87-036-215-089	SW, TACT (■STOP) (HE)			
SW216	87-036-259-088	SW, TACT (■STOP) (E, K)			
SW217	87-036-215-089	SW, TACT (■PAUSE) (HE)			
SW217	87-036-259-088	SW, TACT (■PAUSE) (E, K)			

XC - 950

REF. NO.	PART NO.	DESCRIPTION
===IC===		
	87-001-184-010	IC, CXA1081S
	87-001-400-010	IC, CXA1082S
	87-001-944-010	IC, CXD1167Q
	80-AC2-610-010	IC, CXP50112-323Q
	87-002-211-010	IC, GPIF32T(DIGITAL OUT)
Δ	87-001-486-010	IC, ICP-N15
	87-001-173-010	IC, LA6510
	87-002-394-010	IC, LB1641
	87-020-883-010	IC, M74HC04
	87-001-555-010	IC, NJM2903D
	87-002-727-019	IC, NJM4558L
	87-002-348-010	IC, NJM4580D
	87-001-596-010	IC, NJM4580L
	87-020-903-010	IC, NJM7805FA
	87-020-881-010	IC, NJM78L05A
	87-002-393-010	IC, NJM78M08FA
	87-001-641-010	IC, NJM79M05FA
	87-002-392-010	IC, NJM79M08FA
	87-020-910-010	IC, PST523F
	87-002-347-010	IC, SAA7350
	87-001-790-010	IC, SBX1610-52(REMOTE SENSOR)
	87-002-244-010	IC, SM5840DS
	87-001-169-010	IC, STA341M

===TRANSISTOR===

	89-502-464-010	FET, 2SK246Y
	89-213-292-019	TRANSISTOR, 2SB1329Q
	89-213-321-019	TRANSISTOR, 2SB1332R
	89-318-154-019	TRANSISTOR, 2SC1815Y
	87-026-500-019	TRANSISTOR, 2SD2144S, UV
	87-026-214-019	TRANSISTOR, DTA114YS
	87-026-219-019	TRANSISTOR, DTA144ES
	87-026-464-019	TRANSISTOR, DTC114TS
	87-026-218-019	TRANSISTOR, DTC144ES

===DIODE===

	87-027-376-019	DIODE, 1B4B41
	87-001-574-019	DIODE, 1SR139-200
	87-020-465-019	DIODE, 1SS133
	87-001-187-010	DIODE, S5277B, LC6
	87-027-451-019	DIDOE, ZENER HZ27-2L
	87-027-393-019	DIODE, ZENER HZ4C2
	87-027-475-019	DIODE, ZENER HZ6B1

===MAIN CIRCUIT BOARD SECTION===

C101	★87-018-115-019	CAP, CERA-SOL SS 47P-50 SL
C102	★87-018-115-019	CAP, CERA-SOL SS 47P-50 SL
C103	★87-018-115-019	CAP, CERA-SOL SS 47P-50 SL
C104	★87-018-119-019	CAP, CERA-SOL SS 100P-50 B
C105	★87-018-115-019	CAP, CERA-SOL SS 47P-50 SL
C106	★87-018-115-019	CAP, CERA-SOL SS 47P-50 SL
C107	★87-010-404-019	CAP, ELECT 4. 7-50 SME
C108	★87-010-404-019	CAP, ELECT 4. 7-50 SME
C109	★87-010-401-019	CAP, ELECT 1-50 SME
C111	★87-010-400-019	CAP, ELECT 0. 47-50 SME
C112	★87-018-133-019	CAP, CERA-SOL SS 4700P-16 X
C113	★87-010-374-019	CAP, ELECT 47-10
C114	★87-018-134-019	CAP, CERA-SOL SS 0. 01-16 Y
C115	★87-018-134-019	CAP, CERA-SOL SS 0. 01-16 Y
C116	★87-018-134-019	CAP, CERA-SOL SS 0. 01-16 Y
C117	★87-010-374-019	CAP, ELECT 47-10
C118	★87-010-408-019	CAP, ELECT 47-50 SME
C119	★87-010-370-019	CAP, ELECT 330-6. 3 SME
C132	★87-018-134-019	CAP, CERA-SOL SS 0. 01-16 Y
C134	★87-010-404-019	CAP, ELECT 4. 7-50 SME
C135	★87-018-131-019	CAP, CERA-SOL SS 1000P-50 B

REF. NO.	PART NO.	DESCRIPTION
C143	★87-018-111-019	CAP, CERA-SOL SS 27P-50 SL
C144	★87-018-209-019	CAP, CERA-SOL SS 0. 1-50 F
C145	★87-018-209-019	CAP, CERA-SOL SS 0. 1-50 F
C146	★87-018-209-019	CAP, CERA-SOL SS 0. 1-50 F
C151	★87-018-132-019	CAP, CERA-SOL SS 2200P-16 X
C152	★87-018-134-019	CAP, CERA-SOL SS 0. 01-16 Y
C153	★87-018-127-019	CAP, CERA-SOL SS 470P-50 B
C156	★87-010-405-019	CAP, ELECT 10-50 SME
C157	★87-010-545-019	CAP, ELECT 0. 22-50 SME
C159	★87-018-134-019	CAP, CERA-SOL SS 0. 01-16 Y
C160	★87-010-404-019	CAP, ELECT 4. 7-50 SME
C161	★87-010-374-019	CAP, ELECT 47-10
C162	★87-010-374-019	CAP, ELECT 47-10
C164	★87-010-374-019	CAP, ELECT 47-10
C165	★87-010-131-019	CAP, ELECT 0. 47-50 BP
C167	★87-018-202-019	CAP, CERA-SOL SS 6800P-16 X
C168	★87-018-202-019	CAP, CERA-SOL SS 6800P-16 X
C171	★87-018-134-019	CAP, CERA-SOL SS 0. 01-16 Y
C172	★87-018-134-019	CAP, CERA-SOL SS 0. 01-16 Y
C173	★87-010-263-019	CAP, ELECT 100-10
C174	★87-018-131-019	CAP, CERA-SOL SS 1000P-50 B
C175	★87-010-405-019	CAP, ELECT 10-50 SME
C177	★87-018-132-019	CAP, CERA-SOL SS 2200P-16 X
C179	★87-010-384-019	CAP, ELECT 100-25 SME
C180	★87-010-384-019	CAP, ELECT 100-25 SME
C181	★87-010-374-019	CAP, ELECT 47-10
C182	★87-010-374-019	CAP, ELECT 47-10
C183	★87-010-374-019	CAP, ELECT 47-10
C193	★87-018-209-019	CAP, CERA-SOL SS 0. 1-50 F
C301	★87-018-150-019	CAP, CERA-SOL SS 18P-50 CH
C302	★87-018-150-019	CAP, CERA-SOL SS 18P-50 CH
C303	★87-018-134-019	CAP, CERA-SOL SS 0. 01-16 Y
C304	★87-018-134-019	CAP, CERA-SOL SS 0. 01-16 Y
C305	★87-018-134-019	CAP, CERA-SOL SS 0. 01-16 Y
C306	★87-018-134-019	CAP, CERA-SOL SS 0. 01-16 Y
C311	★87-018-117-089	CAP, CERA-SOL SS 68P-50 SL
C312	★87-018-117-089	CAP, CERA-SOL SS 68P-50 SL
C313	★87-018-117-089	CAP, CERA-SOL SS 68P-50 SL
C314	★87-018-117-089	CAP, CERA-SOL SS 68P-50 SL
C315	★87-018-119-089	CAP, CERA-SOL SS 100P-50 B
C316	★87-018-119-089	CAP, CERA-SOL SS 100P-50 B
C317	★87-018-119-089	CAP, CERA-SOL SS 100P-50 B
C318	★87-018-119-089	CAP, CERA-SOL SS 100P-50 B
C323	★87-014-069-019	CAP, PP 3300P-100 J
C324	★87-014-069-019	CAP, PP 3300P-100 J
C325	★87-014-045-019	CAP, PP 330P-100 J
C326	★87-014-045-019	CAP, PP 330P-100 J
C329	★87-010-914-010	CAP, ELECT 47-10 BP ASP
C330	★87-010-914-010	CAP, ELECT 47-10 BP ASP
C333	★87-018-134-019	CAP, CERA-SOL SS 0. 01-16 Y
C334	★87-018-134-019	CAP, CERA-SOL SS 0. 01-16 Y
C337	★87-018-134-019	CAP, CERA-SOL SS 0. 01-16 Y
C338	★87-018-134-019	CAP, CERA-SOL SS 0. 01-16 Y
C341	★87-018-127-019	CAP, CERA-SOL SS 470P-50 B
C342	★87-018-127-019	CAP, CERA-SOL SS 470P-50 B
C343	★87-018-127-019	CAP, CERA-SOL SS 470P-50 B
C344	★87-018-127-019	CAP, CERA-SOL SS 470P-50 B
C351	★87-010-910-010	CAP, ELECT 47-10 ASF
C352	★87-010-910-010	CAP, ELECT 47-10 ASF
C353	★87-018-134-019	CAP, CERA-SOL SS 0. 01-16 Y
C355	★87-010-910-010	CAP, ELECT 47-10 ASF
C356	★87-010-910-010	CAP, ELECT 47-10 ASF
C357	★87-018-134-019	CAP, CERA-SOL SS 0. 01-16 Y
C358	★87-018-134-019	CAP, CERA-SOL SS 0. 01-16 Y
C359	★87-010-910-010	CAP, ELECT 47-10 ASF
C360	★87-010-910-010	CAP, ELECT 47-10 ASF
C361	★87-010-910-010	CAP, ELECT 47-10 ASF
C362	★87-010-910-010	CAP, ELECT 47-10 ASF

REF. NO.	PART NO.	DESCRIPTION
C363	★87-010-910-010	CAP, ELECT 47-10 ASF
C364	★87-010-910-010	CAP, ELECT 47-10 ASF
C365	★87-010-910-010	CAP, ELECT 47-10 ASF
C366	★87-010-910-010	CAP, ELECT 47-10 ASF
C375	★87-018-134-019	CAP, CERA-SOL SS 0.01-16 Y
C376	★87-018-134-019	CAP, CERA-SOL SS 0.01-16 Y
C382	★87-018-115-019	CAP, CERA-SOL SS 47P-50 SL
C383	★87-018-115-019	CAP, CERA-SOL SS 47P-50 SL
C384	★87-018-115-019	CAP, CERA-SOL SS 47P-50 SL
C385	★87-018-115-019	CAP, CERA-SOL SS 47P-50 SL
C386	★87-018-131-019	CAP, CERA-SOL SS 1000P-50 B
C387	★87-010-374-019	CAP, ELECT 47-10
C388	★87-018-134-019	CAP, CERA-SOL SS 0.01-16 Y
C389	★87-018-134-019	CAP, CERA-SOL SS 0.01-16 Y
C492	★87-010-909-010	CAP, ELECT 100-10 ASF
C493	★87-018-134-019	CAP, CERA-SOL SS 0.01-16 Y
C501	★87-018-209-019	CAP, CERA-SOL SS 0.1-50 F
C506	★87-010-374-019	CAP, ELECT 47-10
C508	★87-010-374-019	CAP, ELECT 47-10
C509	★87-010-374-019	CAP, ELECT 47-10
C510	★87-018-134-019	CAP, CERA-SOL SS 0.01-16 Y
C511	★87-018-134-019	CAP, CERA-SOL SS 0.01-16 Y
C512	★87-018-134-019	CAP, CERA-SOL SS 0.01-16 Y
C604	★87-018-134-019	CAP, CERA-SOL SS 0.01-16 Y
C611	★87-010-374-019	CAP, ELECT 47-10
C612	★87-010-374-019	CAP, ELECT 47-10
C613	★87-010-374-019	CAP, ELECT 47-10
C614	★87-010-374-019	CAP, ELECT 47-10
C701	★87-018-209-019	CAP, CERA-SOL SS 0.1-50 F
C702	★87-018-209-019	CAP, CERA-SOL SS 0.1-50 F
C704	★87-018-209-019	CAP, CERA-SOL SS 0.1-50 F
C710	★87-018-134-019	CAP, CERA-SOL SS 0.01-16 Y
C731	★87-018-134-019	CAP, CERA-SOL SS 0.01-16 Y
C751	★87-018-131-019	CAP, CERA-SOL SS 1000P-50 B
C753	★87-010-374-019	CAP, ELECT 47-10
EM103	★87-008-372-010	FILTER, EMI BL 01RNI
EM104	★87-008-372-010	FILTER, EMI BL 01RNI
EM303	★87-008-372-010	FILTER, EMI BL 01RNI
EM304	★87-008-372-010	FILTER, EMI BL 01RNI
EM311	★87-008-372-010	FILTER, EMI BL 01RNI
EM312	★87-008-372-010	FILTER, EMI BL 01RNI
J101	★87-009-023-010	JACK PIN YKC21-0349 (ANALOG OUT)
J102	87-002-211-010	IC, GP1F32T (DIGITAL OUT)
LPF701	★89-AC1-610-019	FILTER, H327LNKS1329MGD
R116	★87-025-429-010	RES, M/F 47K-1/6W F
R117	★87-025-429-010	RES, M/F 47K-1/6W F
R171	★87-025-475-010	RES, NF 22-1/4W J
SFR101	★87-024-169-010	SFR 2.2K
SFR151	★87-024-173-010	SFR 22K
SFR152	★87-024-173-010	SFR 22K
SFR153	★87-024-173-010	SFR 22K
SFR154	★87-024-173-010	SFR 22K
X301	★84-733-617-010	VIB, XTAL 16.9344MHz

===FRONT-1 CIRCUIT BOARD SECTION===

FL201	89-AC1-609-010	FL, 12BT45GK (DISPLAY)
FW201	★89-AC1-641-110	FLAT CABLE
SW201	87-036-259-088	SW, TACT (1)
SW202	87-036-259-088	SW, TACT (2)
SW203	87-036-259-088	SW, TACT (3)
SW204	87-036-259-088	SW, TACT (4)
SW205	87-036-259-088	SW, TACT (5)
SW206	87-036-259-088	SW, TACT (6)
SW207	87-036-259-088	SW, TACT (7)
SW208	87-036-259-088	SW, TACT (8)
SW209	87-036-259-088	SW, TACT (9)
SW210	87-036-259-088	SW, TACT (10)

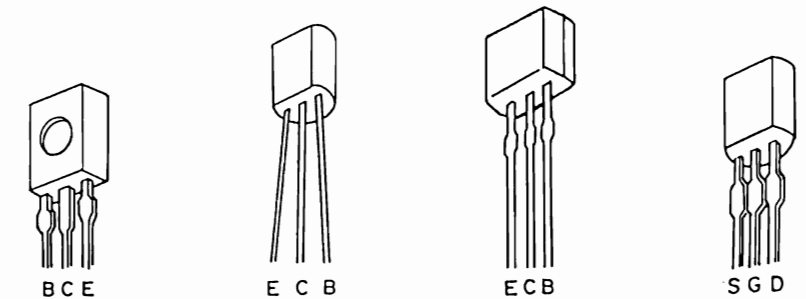
REF. NO.	PART NO.	DESCRIPTION
SW211	87-036-259-088	SW, TACT (>10)
SW212	87-036-259-088	SW, TACT (PRGM)
SW213	87-036-259-088	SW, TACT (CHECK)
SW214	87-036-259-088	SW, TACT (DELETE)
SW215	87-036-259-088	SW, TACT (AC)
SW216	87-036-259-088	SW, TACT (■STOP)
SW217	87-036-259-088	SW, TACT (■PAUSE)
SW218	87-036-259-088	SW, TACT (▶PLAY)
SW219	87-036-259-088	SW, TACT (◀SKIP)
SW220	87-036-259-088	SW, TACT (▶SKIP)
SW221	87-036-259-088	SW, TACT (◀SEARCH)
SW222	87-036-259-088	SW, TACT (▶SEARCH)
SW223	87-036-259-088	SW, TACT (▲OPEN/CLOSE)
SW224	87-036-259-088	SW, TACT (Q-PEAK SEARCH)
SW225	87-036-259-088	SW, TACT (CAL)
SW226	87-036-259-088	TACT SW (EDIT)
SW227	87-036-259-088	TACT SW (FADE/OUT)
SW228	87-036-259-088	TACT SW (FADE/IN)
===FRONT-2 CIRCUIT BOARD SECTION===		
SW229	87-036-259-088	SW, TACT (TIME)
SW230	87-036-259-088	SW, TACT (BLANK)
SW231	87-036-259-088	SW, TACT (RANDOM)
SW232	87-036-259-088	SW, TACT (→INDEX)
SW233	87-036-259-088	SW, TACT (←INDEX)
SW234	87-036-259-088	SW, TACT (REPEAT/1/ALL)
SW235	87-036-259-088	SW, TACT (A→B)
SW246	87-036-087-010	SW, SLIDE (TIMER)
===PT CIRCUIT BOARD SECTION===		
C401	★87-010-124-019	CAP, ELECT 4700-16V
C402	★87-015-997-019	CAP, ELECT 2200-16V SME
C403	★87-018-134-019	CAP, CERA-SOL SS 0.01-16 Y
C404	★87-018-134-019	CAP, CERA-SOL SS 0.01-16 Y
C405	★87-010-263-019	CAP, ELECT 100-10
C406	★87-010-263-019	CAP, ELECT 100-10
C407	★87-010-410-019	CAP, ELECT 330-50 SME
C408	★87-018-209-019	CAP, CERA-SOL SS 0.1-50 F
C420	★87-018-209-089	CAP, CERA-SOL SS 0.1-50 F
C409	★87-018-209-019	CAP, CERA-SOL SS 0.1-50 F
C410	★87-010-235-019	CAP, ELECT 470-16 SME
C411	★87-018-134-019	CAP, CERA-SOL SS 0.01-16 Y
△C421	★87-019-113-090	CAP, FILM SG 2200P-400 (FMG)
C481	★87-010-906-010	CAP, ELECT 2200-25V ASF
C482	★87-010-906-010	CAP, ELECT 2200-25V ASF
C483	★87-018-134-019	CAP, CERA-SOL SS 0.01-16 Y
C484	★87-018-134-019	CAP, CERA-SOL SS 0.01-16 Y
C485	★87-010-909-010	CAP, ELECT 100-10 ASF
C486	★87-010-909-010	CAP, ELECT 100-10 ASF
△PT401	82-AC1-603-018	POWER TRANSFORMER E/Z (E)
△PT401	82-AC1-604-019	POWER TRANSFORMER K (K)
△SW401	87-036-015-019	SW, AC (POWER)
===HP CIRCUIT BOARD SECTION===		
C415	★87-018-134-019	CAP, CERA-SOL SS 0.01-16 Y
C416	★87-018-134-019	CAP, CERA-SOL SS 0.01-16 Y
C371	★87-010-263-089	CAP, ELECT 100-10
C372	★87-010-263-089	CAP, ELECT 100-10
C373	★87-018-134-089	CAP, CERA-SOL SS 0.01-16 Y
C374	★87-018-134-089	CAP, CERA-SOL SS 0.01-16 Y
C391	★87-018-134-089	CAP, CERA-SOL SS 0.01-16 Y
C392	★87-018-134-089	CAP, CERA-SOL SS 0.01-16 Y
C393	★87-018-134-089	CAP, CERA-SOL SS 0.01-16 Y
C732	★87-018-209-019	CAP, CERA-SOL 0.1-50 F
C801	★87-018-119-019	CAP, CERA-SOL SS 100P-50 B
C802	★87-018-119-019	CAP, CERA-SOL SS 100P-50 B
EM391	★87-008-372-089	FILTER, EMI BL 01RNI
EM392	★87-008-372-089	FILTER, EMI BL 01RNI

REF. NO.	PART NO.	DESCRIPTION
EM393	★87-008-372-089	FILTER, EMI BL 01RNI
J302	87-009-043-019	JACK, 6-3 (PHONES)
VR301	82-AC1-608-010	VR, 50KA × 2 (LEVEL)
M301	+++	MOTOR (LEVEL)
===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	91-572-086-110	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)
===MISCELLANEOUS===		
△	98-848-127-11Z	OPTICAL PICK UP KSS-210A
△	★87-034-781-018	AC CORD <E> (E)
△	★87-034-592-018	AC CORD <K> (K)
△	★87-085-185-010	BUSHING, AC CORD E

IC DESCRIPTION and IC BLOCK DIAGRAM

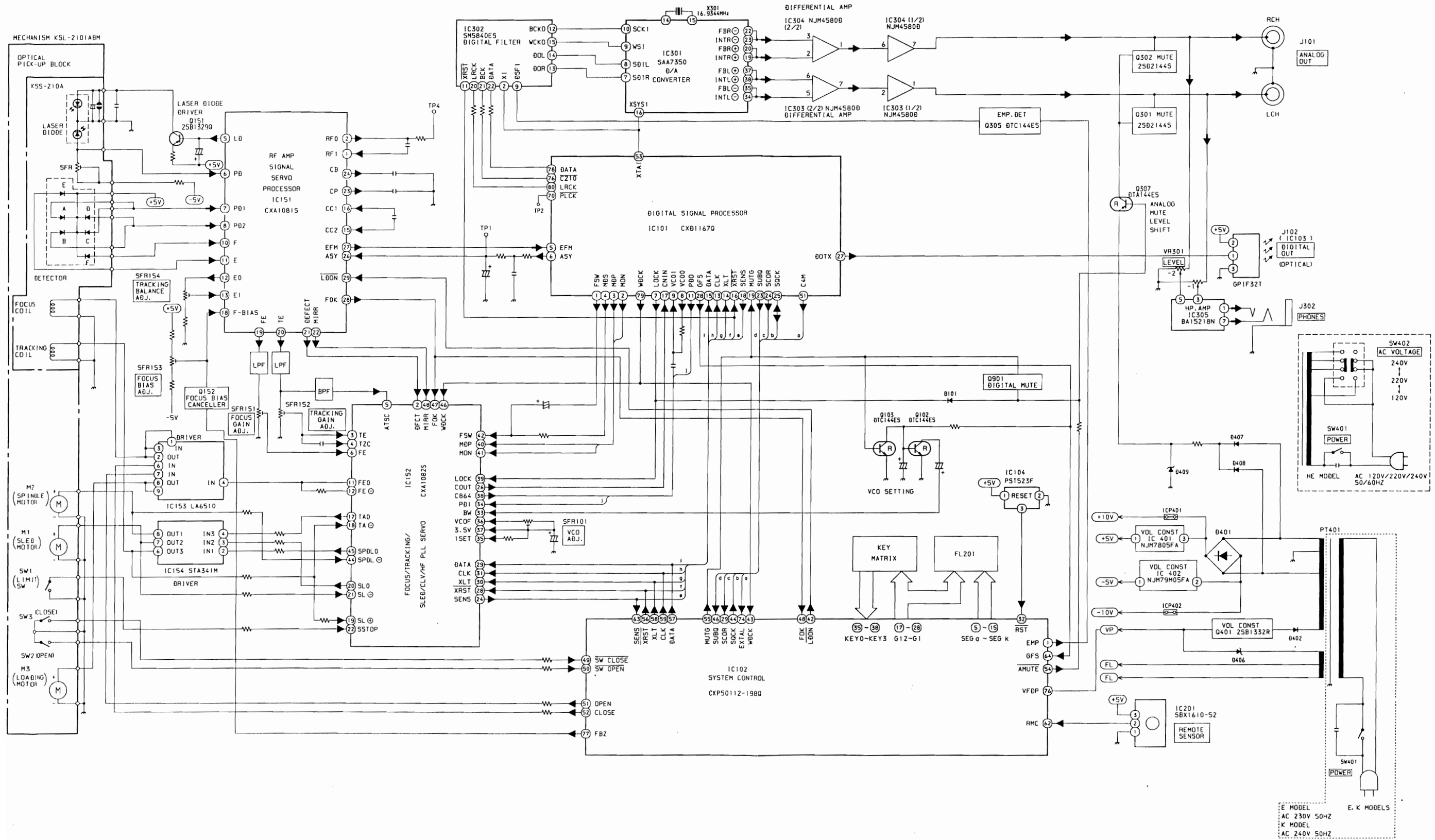
- For IC DESCRIPTION, refer to pages 23 to 30 of the XC-900 service manual (S/M code No.91-042) and pages 6 to 7 of the XC-500 service manual (S/M code No.91-021).
- For IC BLOCK DIAGRAM, refer to page 13 of the XC-900 service manual (S/M code No.91-042).

TRANSISTOR ILLUSTRATION

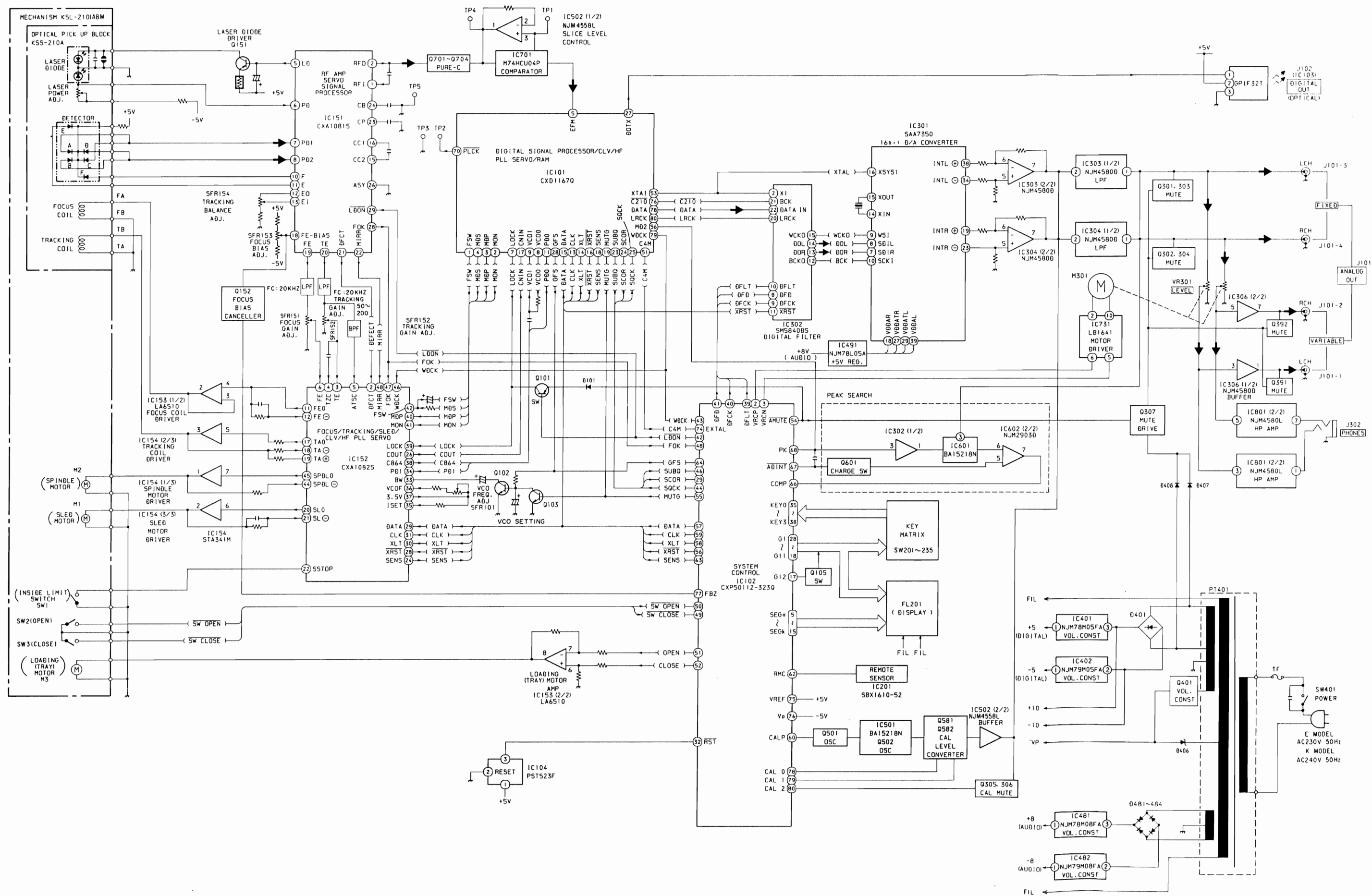


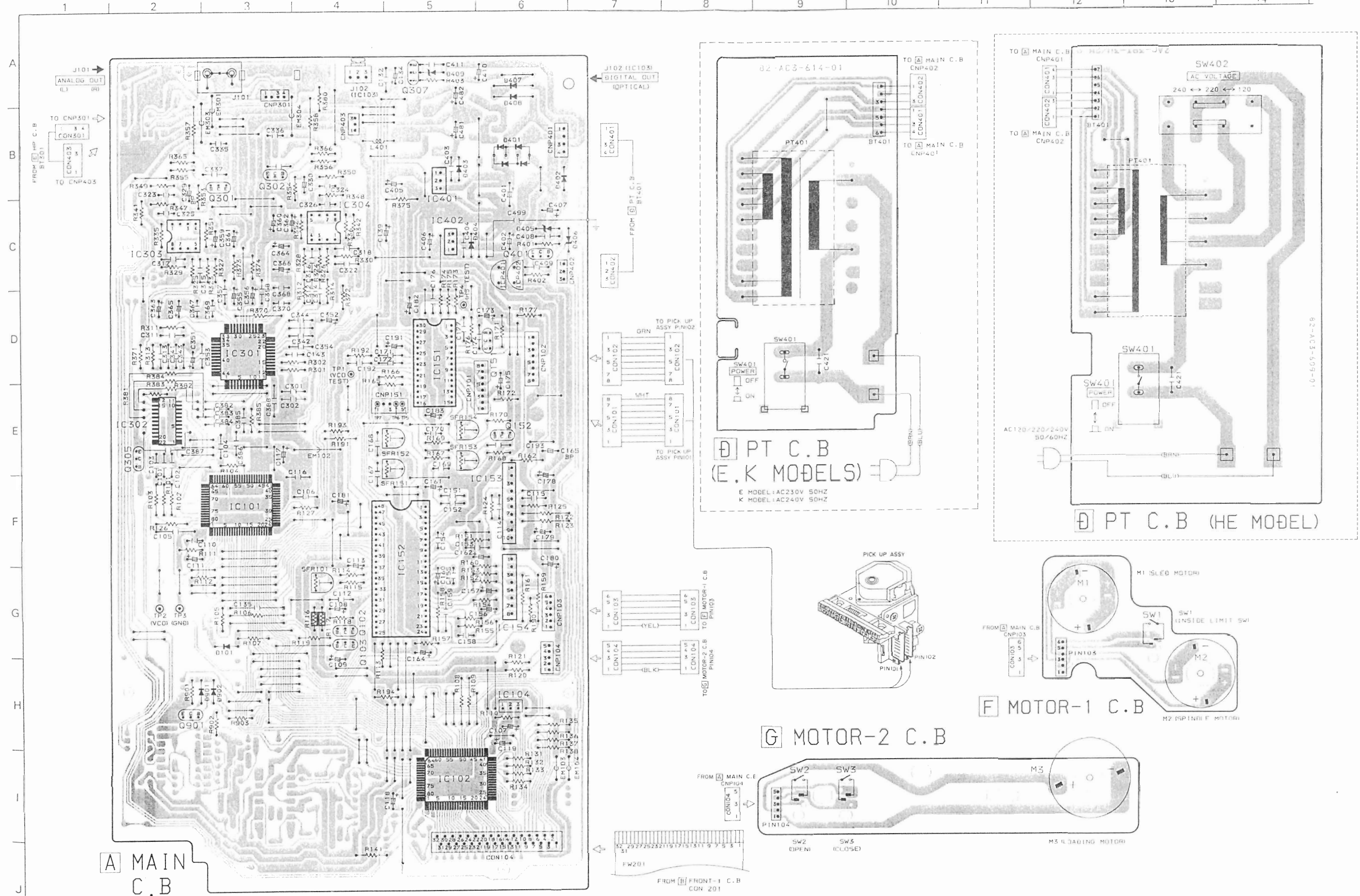
2SB1329	2SC1815	2SD2144	2SK246
2SB1332		DTA114	
		DTA144	
		DTC114	
		DTC144	

BLOCK DIAGRAM (XC - 550)

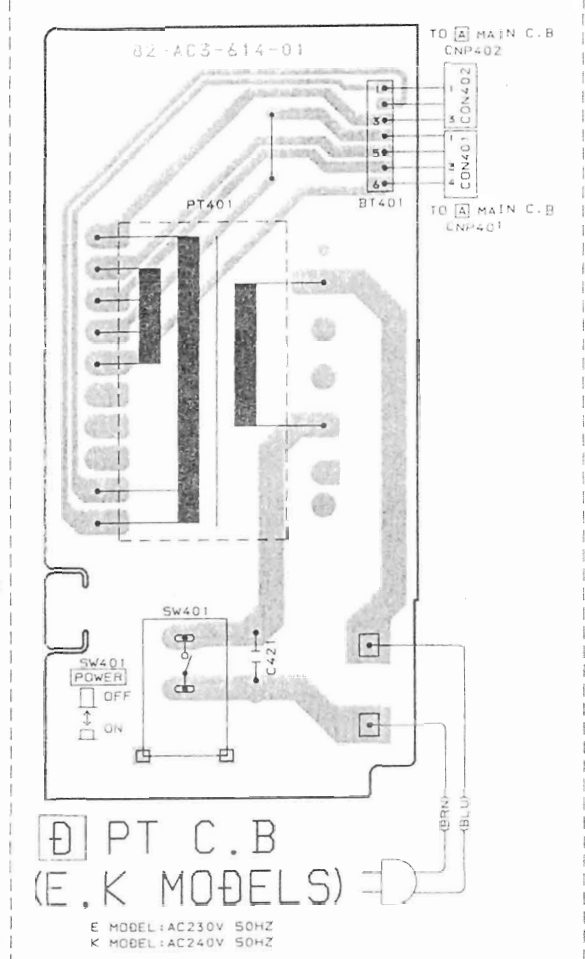


BLOCK DIAGRAM (XC - 950)

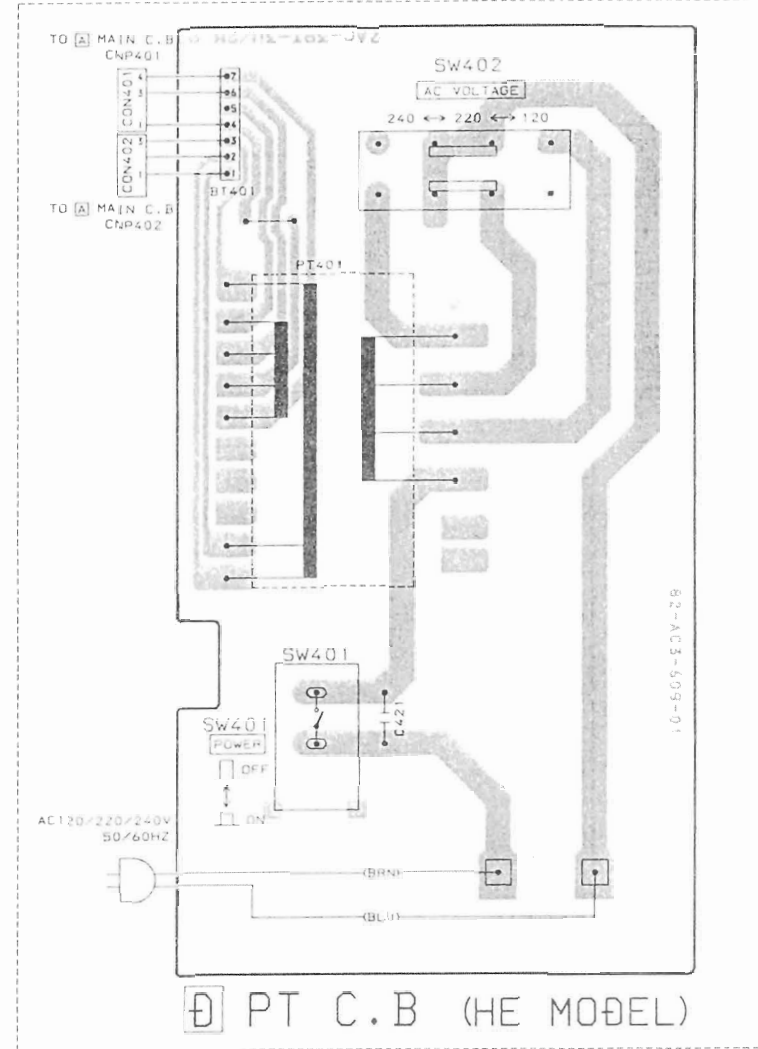




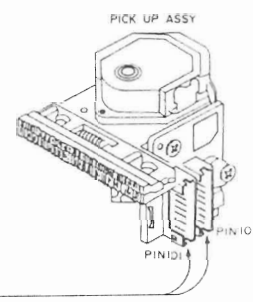
A MAIN C.B



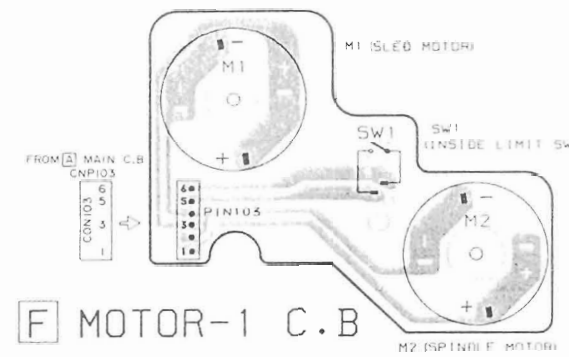
PT C.B (E.K MODELS)
E MODEL: AC230V 50HZ
K MODEL: AC240V 50HZ



PT C.B (HE MODEL)

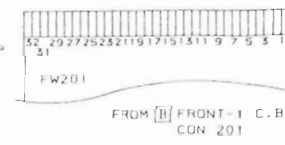
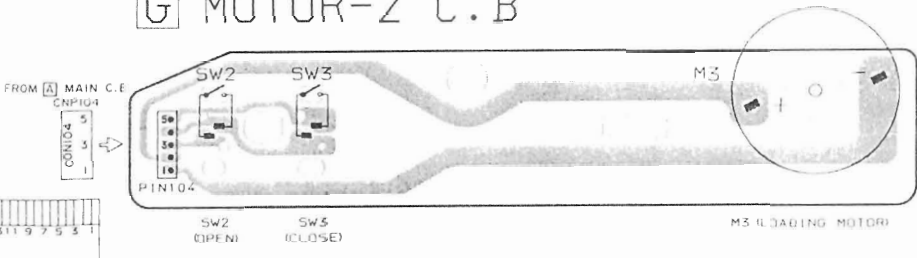


PICK UP ASSY



MOTOR-1 C.B

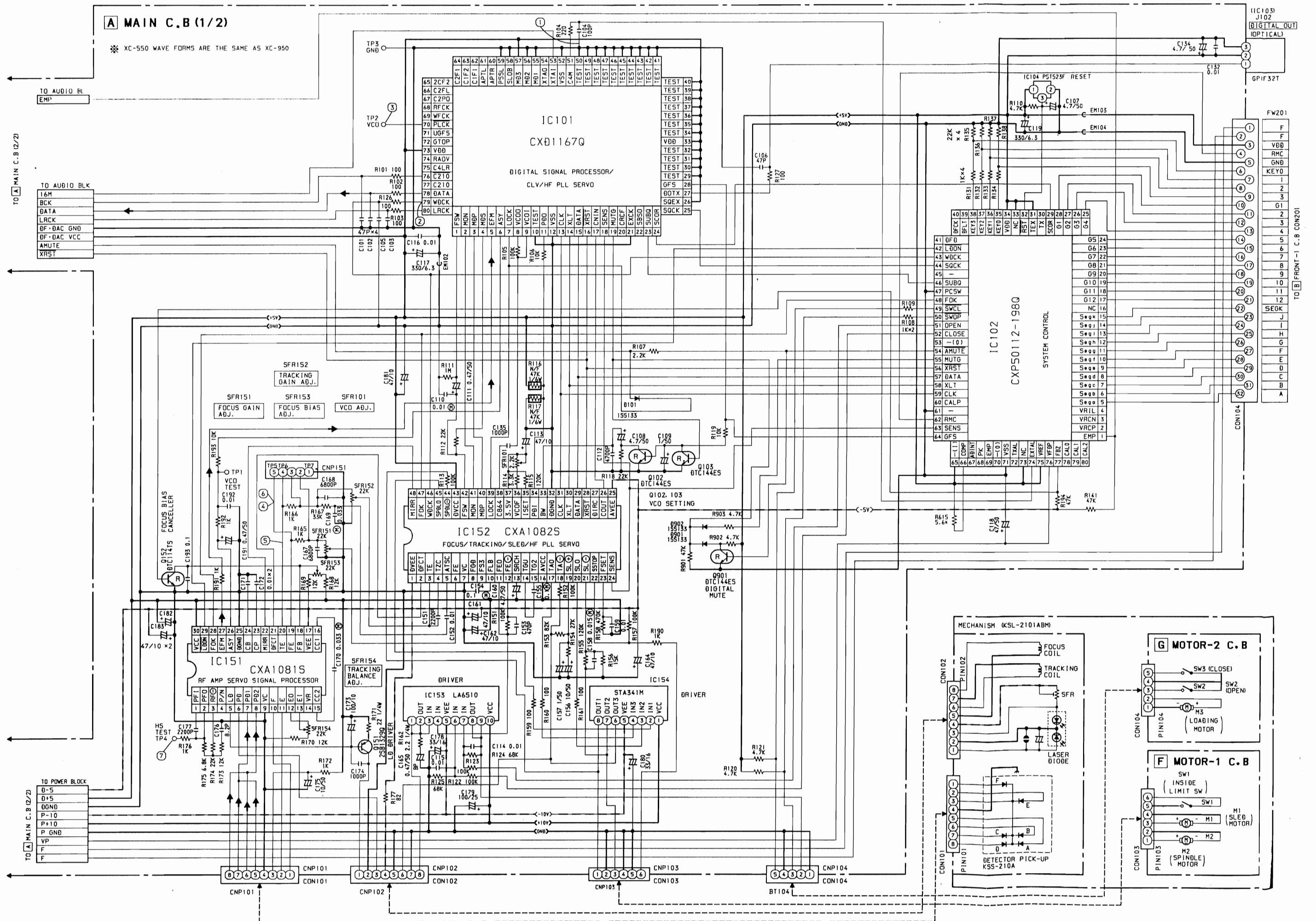
G MOTOR-2 C.B

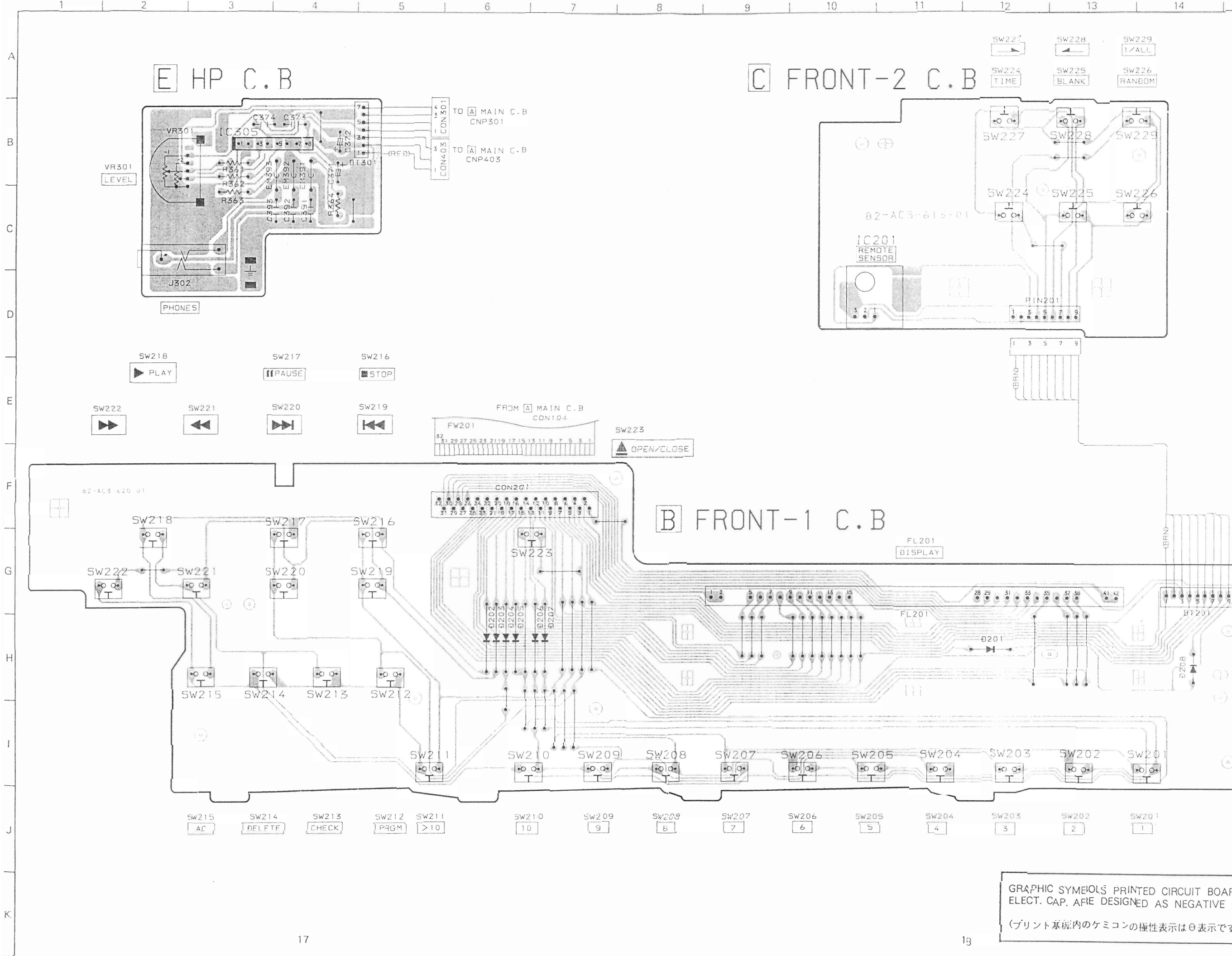


FW201

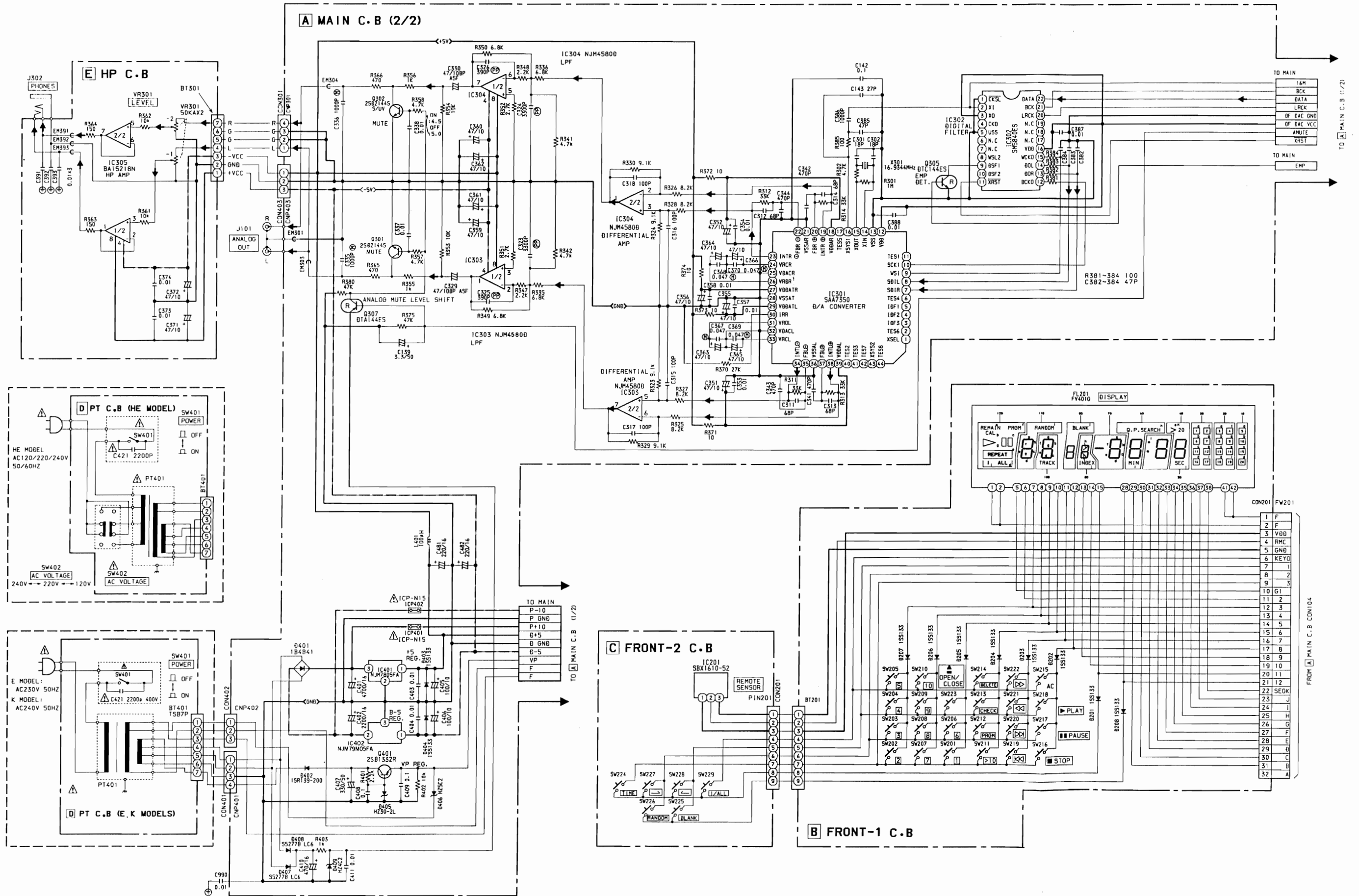
GRAPHIC SYMBOLS PRINTED CIRCUIT BOARD OF ELECT. CAP. ARE DESIGNED AS NEGATIVE POLE.
(プリント基板内のケミコンの極性表示はθ表示です。)

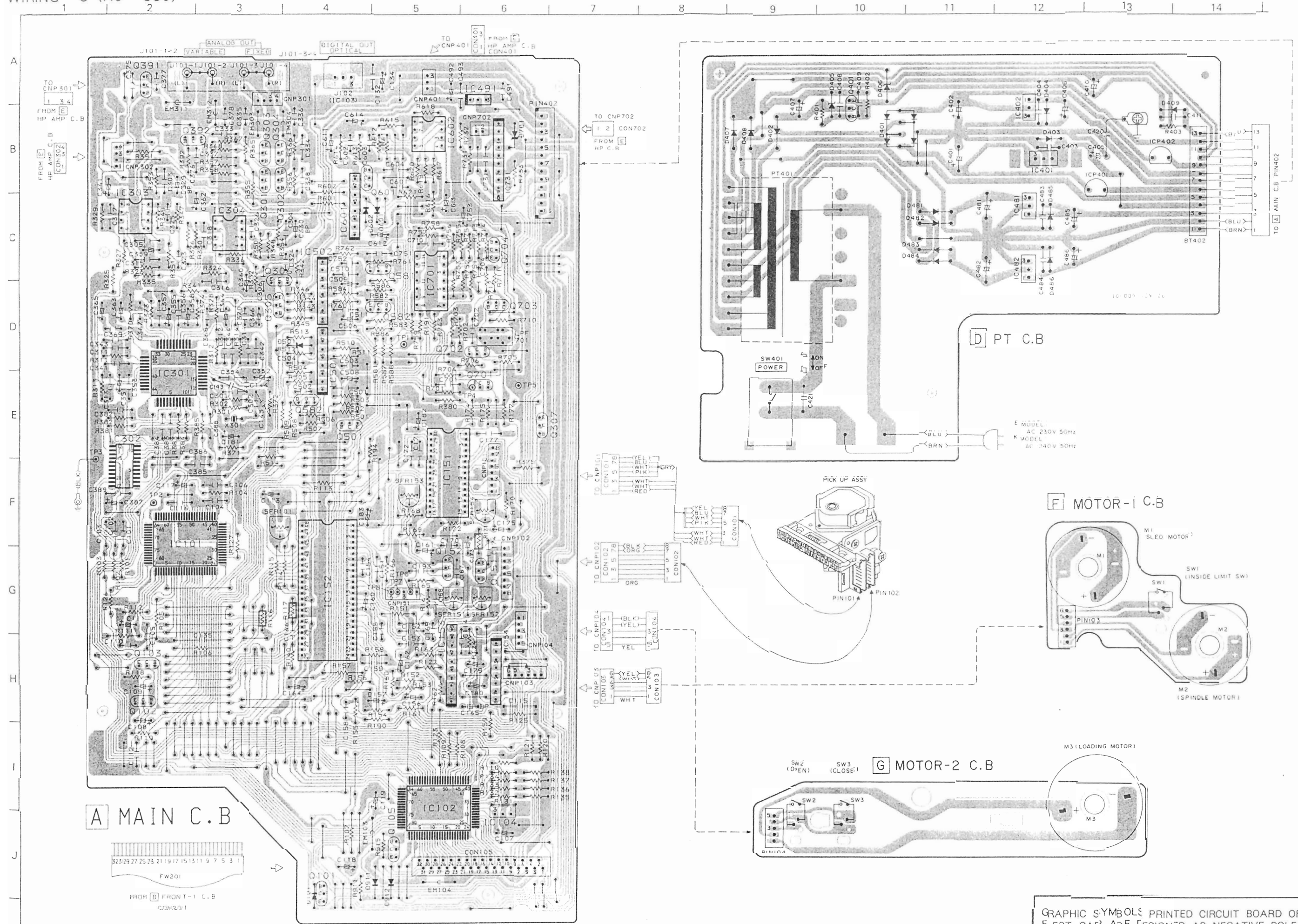
SCHEMATIC DIAGRAM - 1 (XC - 550)





GRAPHIC SYMBOLOGY PRINTED CIRCUIT BOARD OF ELECT. CAP. ARE DESIGNATED 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。)



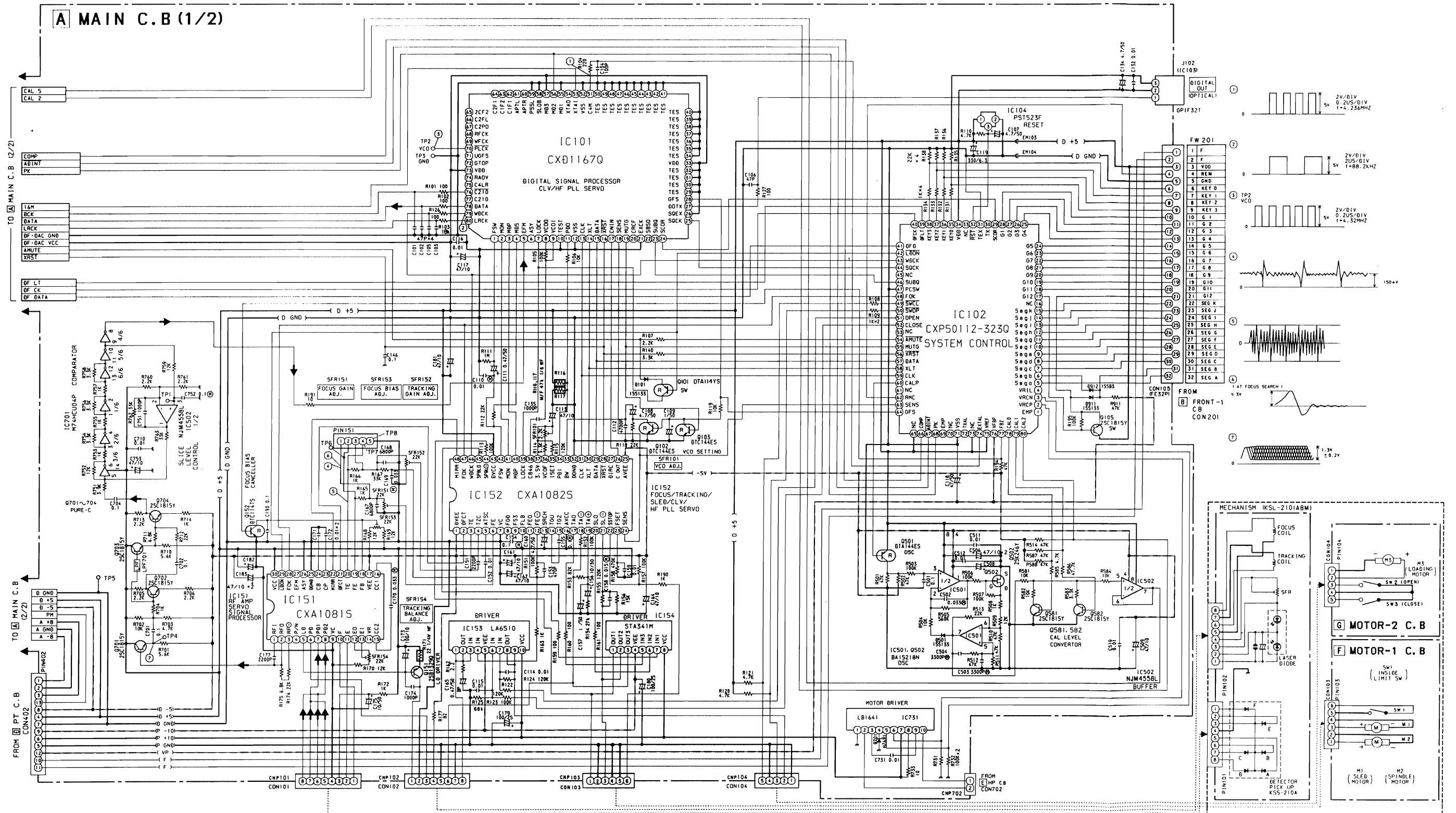


A MAIN C.B



FROM B FRONT-1 C.B
CON201

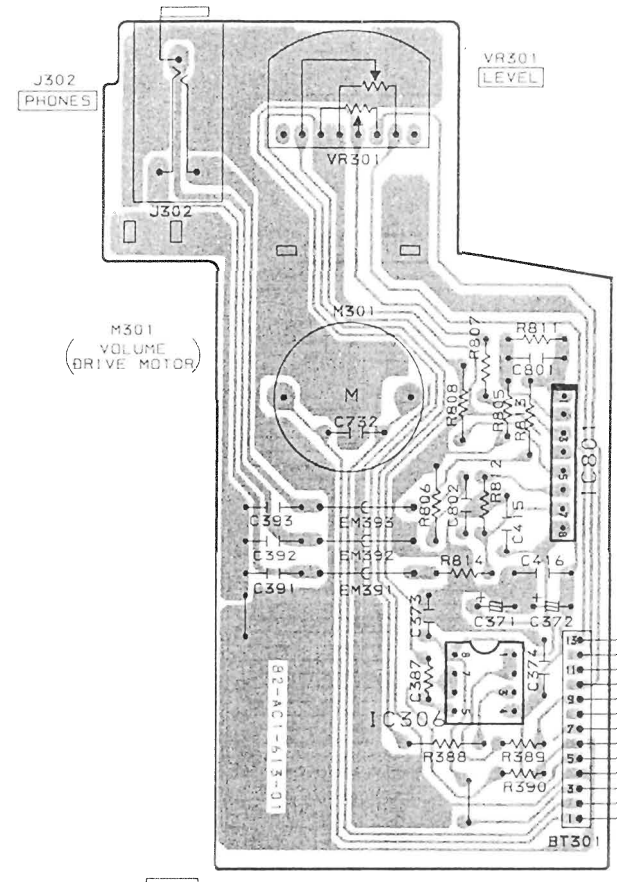
GRAPHIC SYMBOLS PRINTED CIRCUIT BOARD OF ELECT. CAP. ARE DESIGNATED AS NEGATIVE POLE.
(プリント基板内のケミコンの極性表示は⊖表示です。)



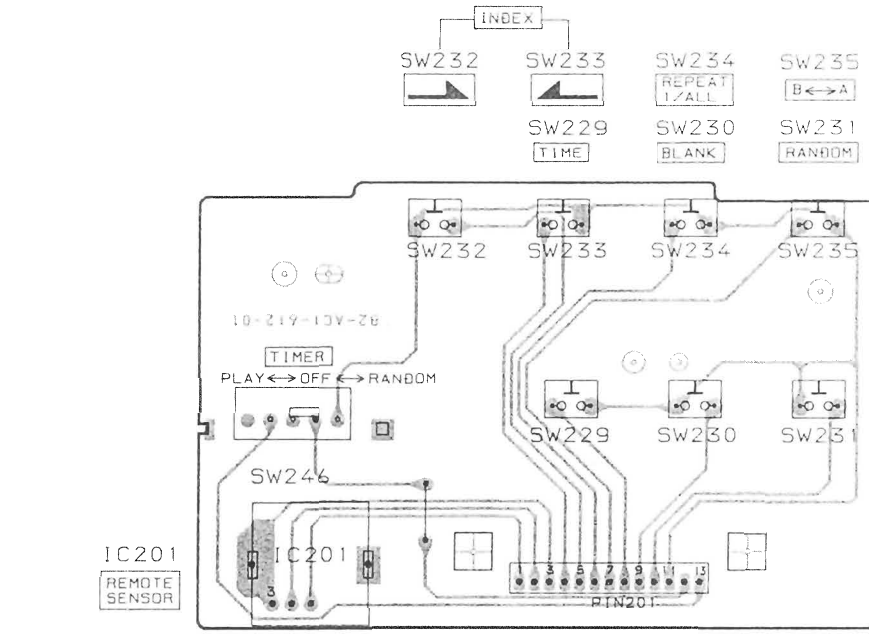
1 2 3 4 5 6 7 8 9 10 11 12 13 14

A B C D E F G H I J K

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。)

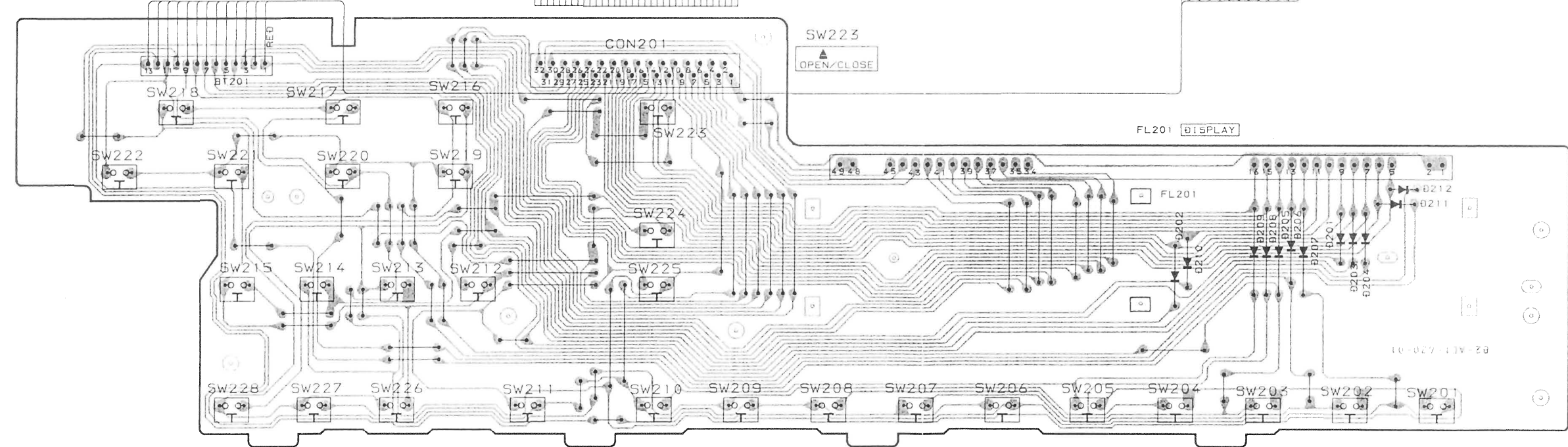


[E] HP C.B

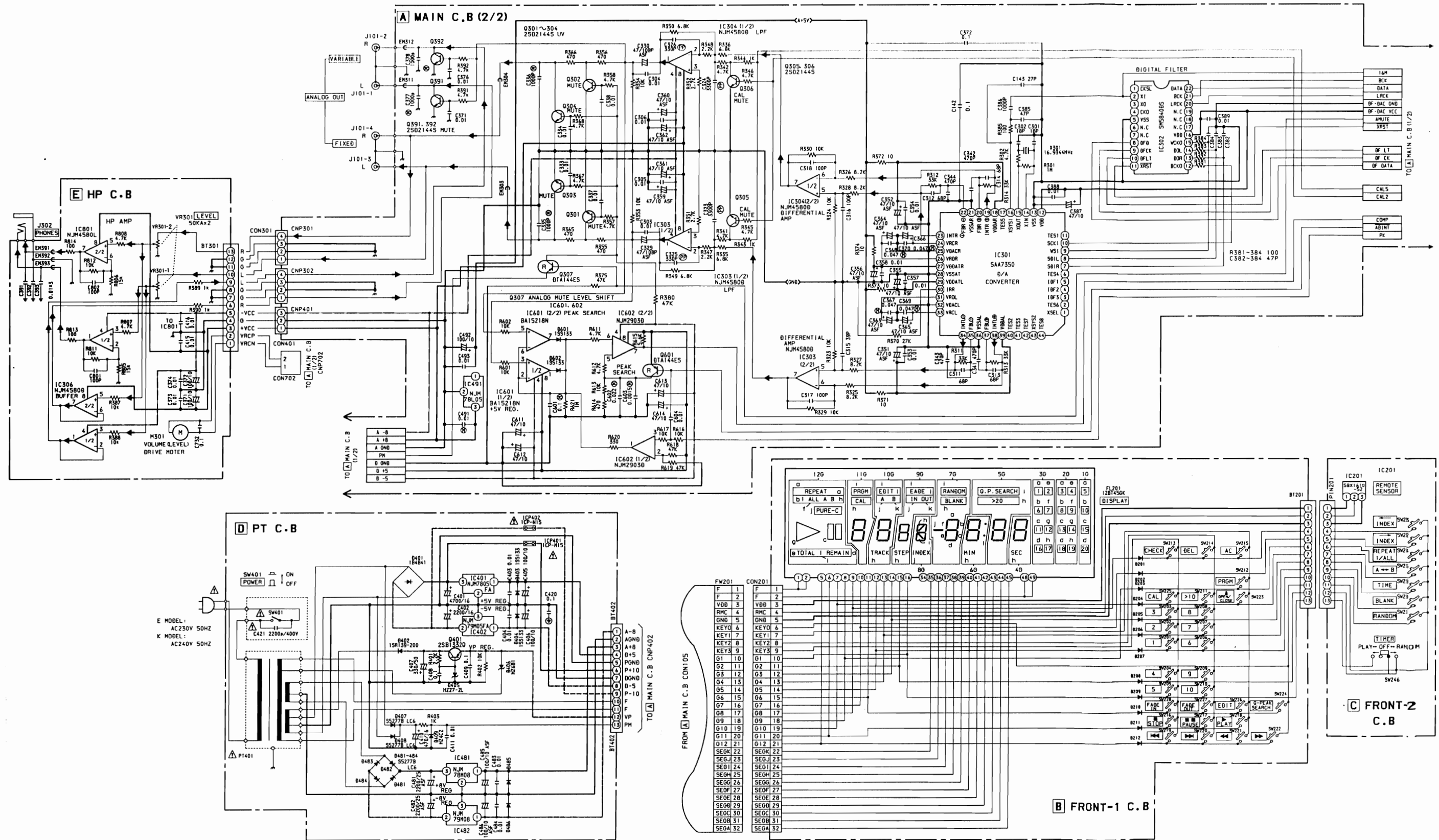


[C] FRONT-2 C.B

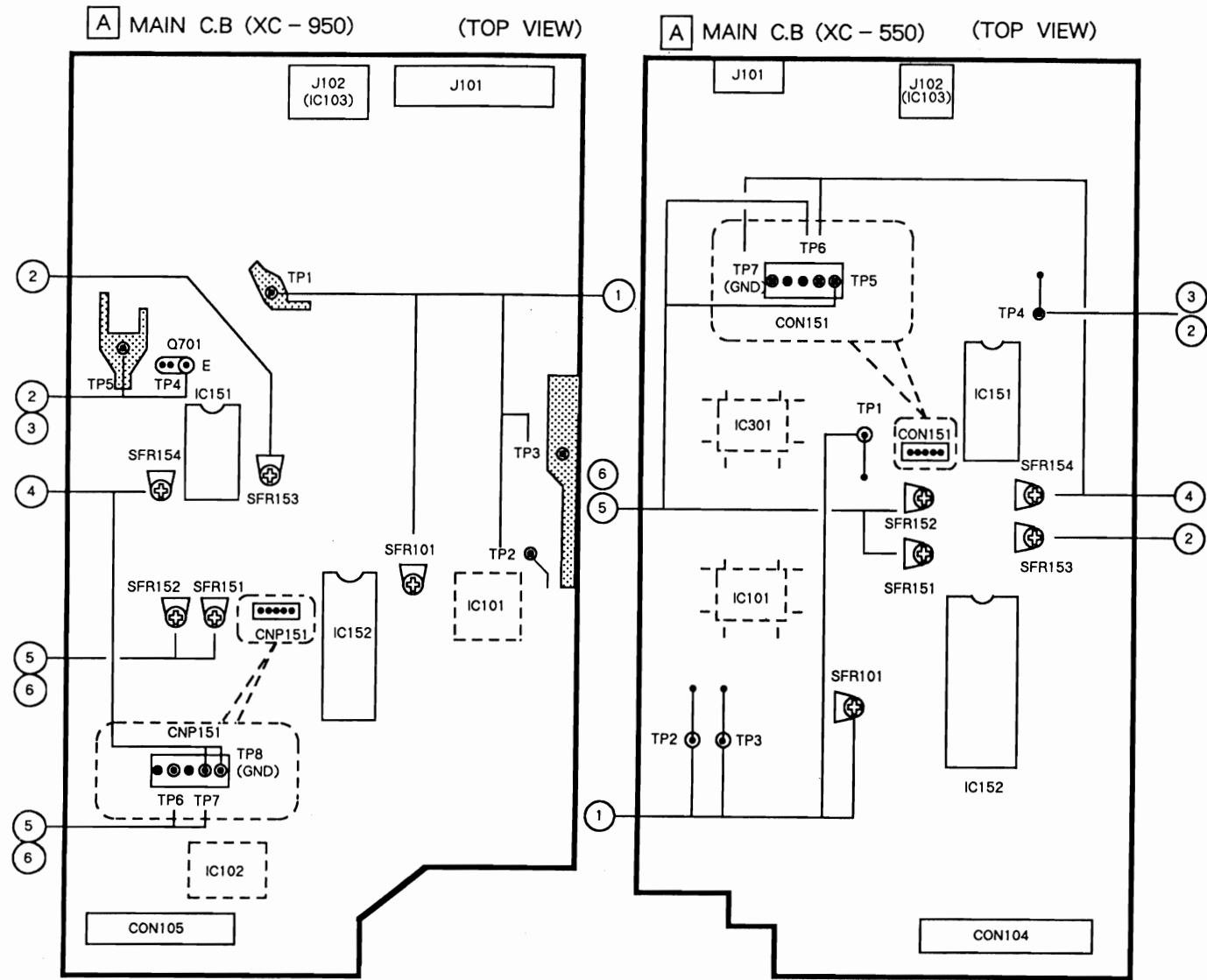
[B] FRONT-1 C.B



SCHEMATIC DIAGRAM - 4 (XC - 950)



ADJUSTMENT

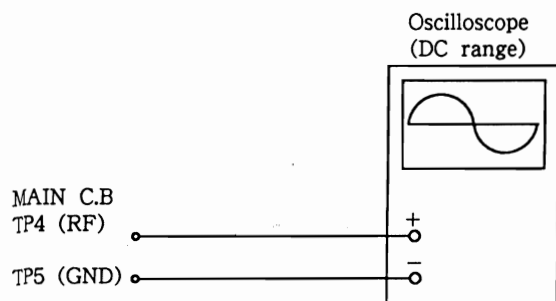


Note: Connect a probe (10:1) of the frequency counter or the oscilloscope to a test point.

① VCO Frequency Adjustment

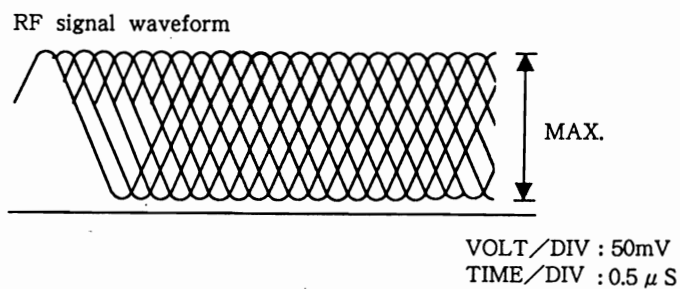
1. Connect and short between TP1 and CHASSIS (GND).
2. Connect the frequency counter to test points TP2 (VCO) and TP3 (GND).
3. Adjust SFR101 (VCO) so that the frequency counter reading is 4.32 ± 0.01 MHz.
4. After the adjustment is completed, remove the short lead wire from TP1 and CHASSIS (GND).

② Focus Bias Adjustment



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

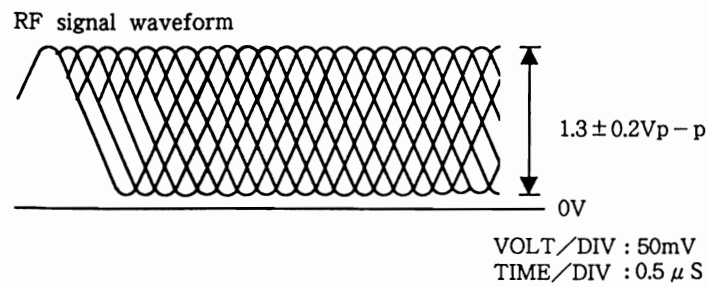
1. Connect an oscilloscope to test points TP4 (RF) and GND (XC-950: TP5).
2. Turn on the power switch.
3. Insert test disc TCD-782 (YEDS-18) and play back the second composition.
4. Adjust SFR153 (F.B) so that the amplitude of waveform on the oscilloscope is maximized.



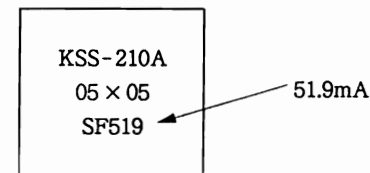
③ RF Waveform Check

This check should be performed whenever the optical block is replaced in repair.

1. Connect an oscilloscope to test points TP4 (RF) and TP5 (GND).
2. Turn on the power switch.
3. Insert test disc TCD-782 (YEDS-18) and play back the second composition.
4. Check that the waveform appears as shown in the figure below.

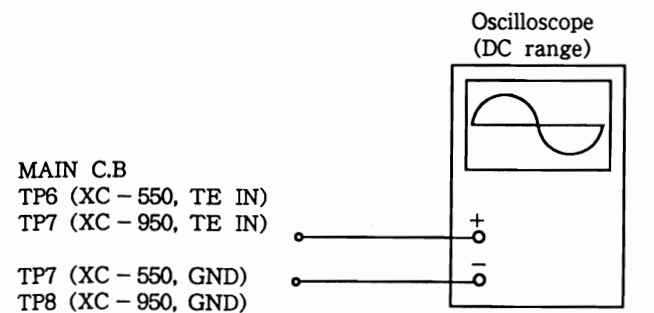


Note: The current of the laser signal can be checked with the voltages on both sides of R171 (22Ω). The difference for the specified value shown on the label must be within ± 6.0 mA.

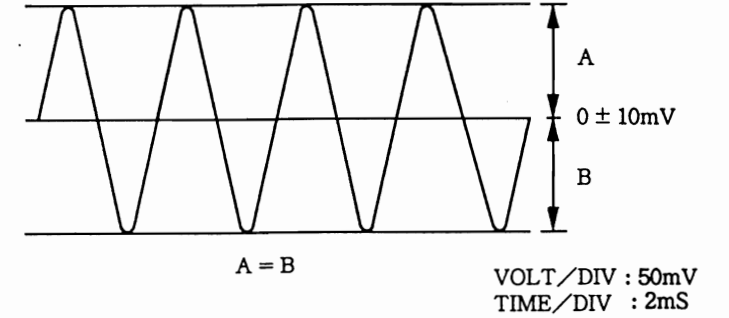


$$\text{Laser current } I_{op} = \frac{\text{Voltage across R171}}{22 \Omega}$$

④ Tracking Balance Adjustment



1. XC-550: Connect an oscilloscope to TP6 (TE IN), TP7 (GND).
- XC-950: Connect an oscilloscope to TP7 (TE IN), TP8 (GND).
2. Connect center pin SFR152 (TE) to ground.
3. Turn on the power switch.
4. Insert test disc TCD-782 (YEDS-18) and play back the second composition.
5. Adjust SFR154 (TB) so that the waveform on the oscilloscope is vertically symmetrical as figure shown.



6. After the adjustment is completed, remove the ground lead wires from the terminals.

⑤, ⑥ Focus/Tracking Gain Adjustment

A frequency response analyzer is necessary in order to perform this adjustment exactly.

However, this gain has a margin, so even if it is slightly off, there is no problem. Therefore, do not perform this adjustment.

Focus/tracking gain determines the pick-up follow-up (vertical and horizontal) relative to mechanical noise and mechanical shock when 2-axis device operates. However, as these reciprocate, the adjustment is at the point where both are satisfied.

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

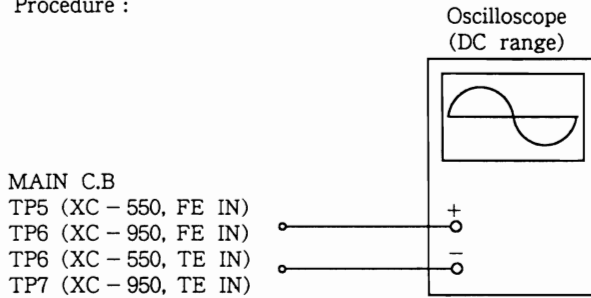
Symptoms	Gain (Focus)	Tracking
● The time until music starts becomes longer for STOP → PLAY or automatic selection (◀▶ buttons pressed.) (Normally takes about 2 seconds.)	low	low or high
● Music does not start and disc continues to rotate for STOP → PLAY or automatic selection (◀▶ buttons pressed.)	-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

The following is simple adjustment method.

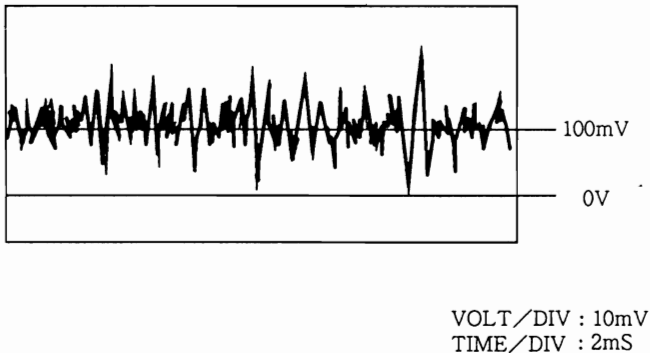
– Simple adjustment –

Note : Since exact adjustment cannot be performed, remember the positions of the controls before the performing the adjustment. If the positions after the simple adjustment are only a little different, return the controls to the original position.

Procedure :

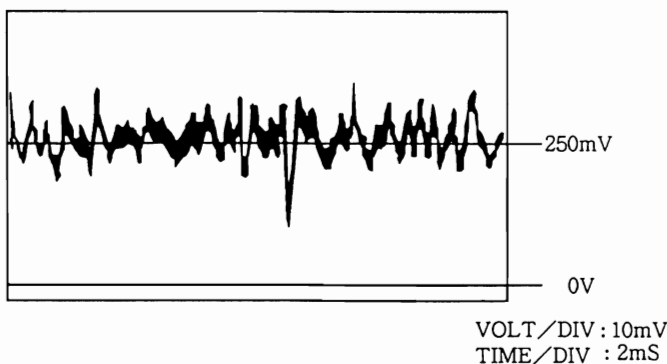


1. Keep the set horizontal.
If the set is not horizontal, this adjustment cannot be performed due to the gravity against the 2-axis device.
2. Insert test disc TCD-782 (YEDS-18) and play back the second composition.
3. Connect an oscilloscope to TP5 (XC - 550, FE IN) or TP6 (XC - 950, FE IN).
4. Adjust SFR151 (FE) so that the waveform is as shown in the figure below (focus gain adjustment)

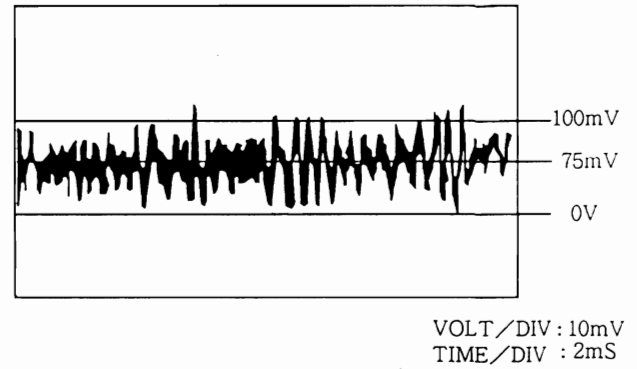


- Incorrect Examples (DC level changes more than on – adjusted waveform).

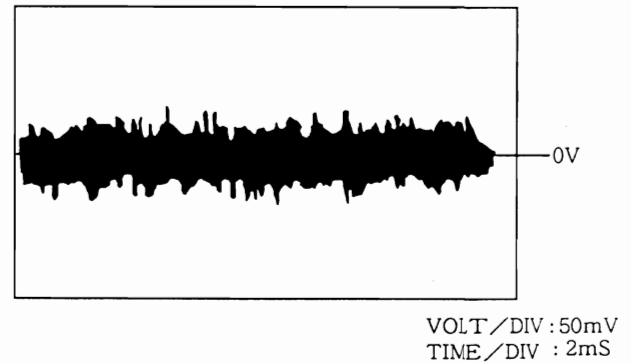
low focus gain



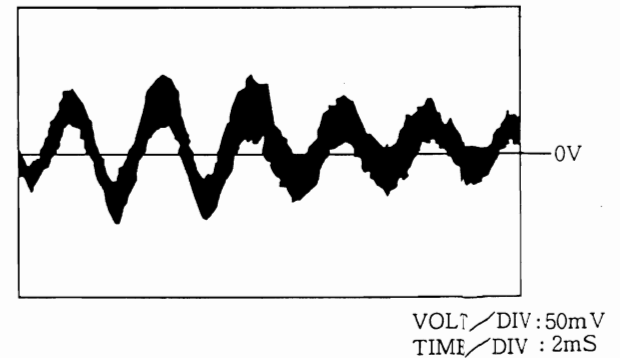
high focus gain



5. Connect an oscilloscope to TP6 (XC - 550, TE IN) or TP7 (XC - 950, TE IN).
6. Adjust SFR152 (TE) so that the waveform is as shown in the figure below (tracking gain adjustment).

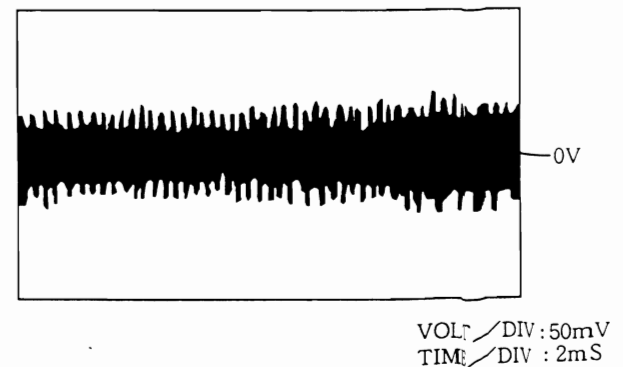


- Incorrect Example (fundamental wave appears).
Lower tracking gain



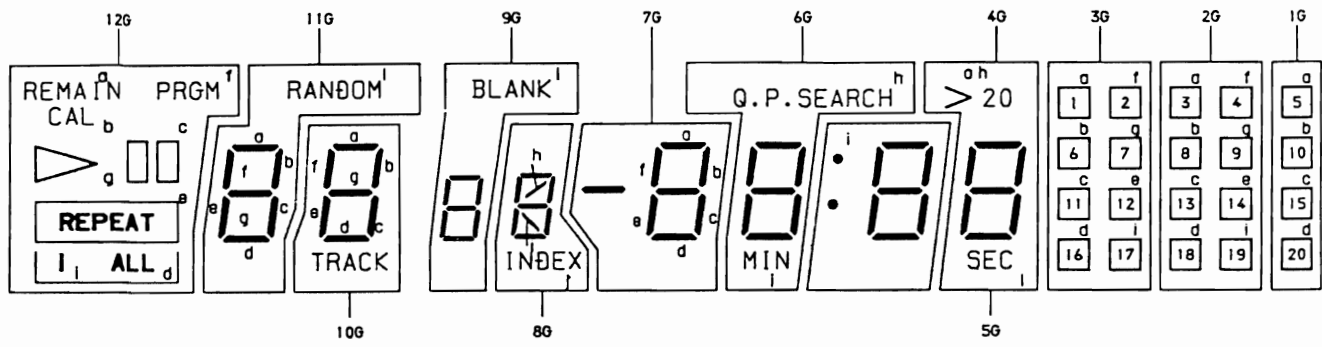
high tracking gain

(higher fundamental wave than for low gain).

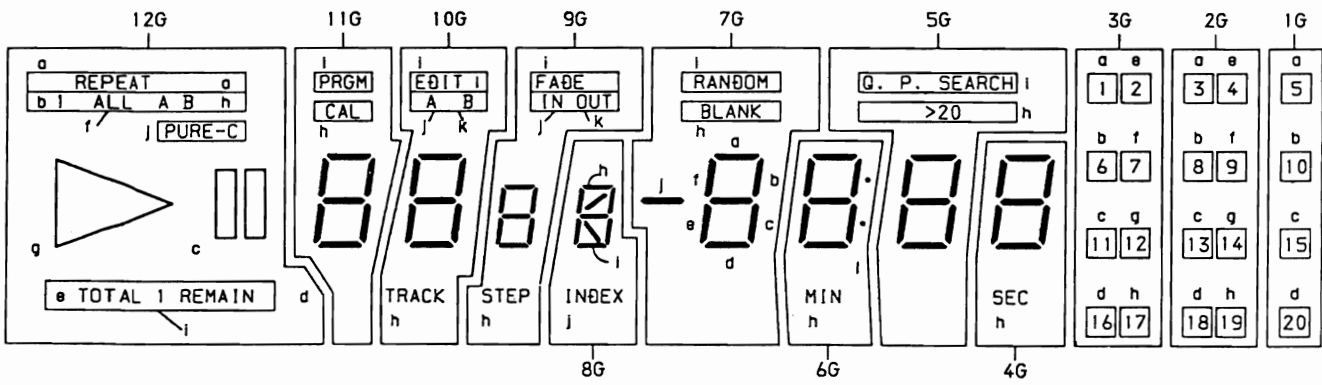


DISPLAY

FL201 (XC - 550)

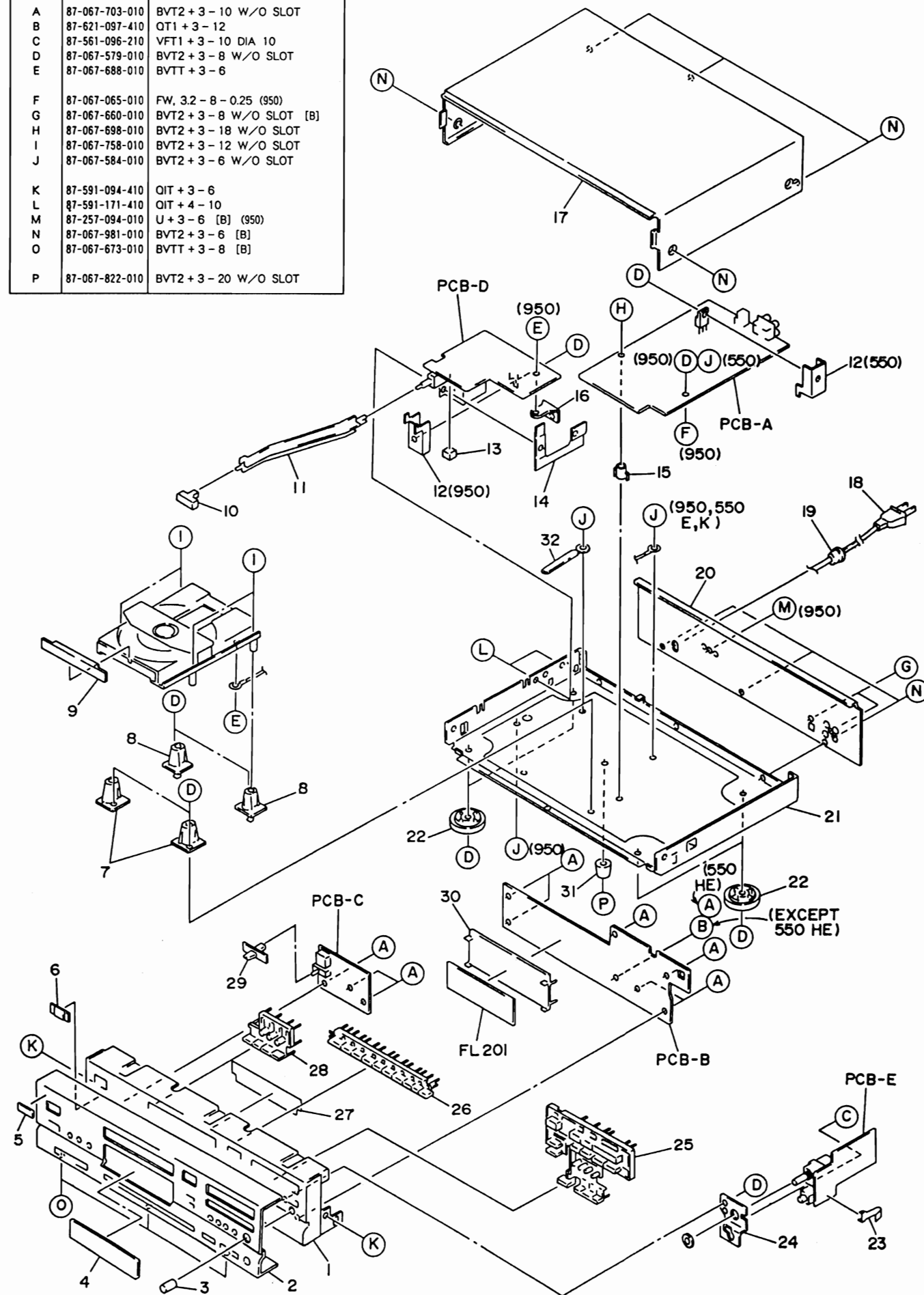


FL201 (XC - 950)



EXPLODED VIEW - 1

REF. NO.	PART NO.	DESCRIPTION
A	87-067-703-010	BVT2 + 3 - 10 W/O SLOT
B	87-621-097-410	QT1 + 3 - 12
C	87-561-096-210	VFT1 + 3 - 10 DIA 10
D	87-067-579-010	BVT2 + 3 - 8 W/O SLOT
E	87-067-688-010	BVTT + 3 - 6
F	87-067-065-010	FW, 3.2 - 8 - 0.25 (950)
G	87-067-660-010	BVT2 + 3 - 8 W/O SLOT [B]
H	87-067-698-010	BVT2 + 3 - 18 W/O SLOT
I	87-067-758-010	BVT2 + 3 - 12 W/O SLOT
J	87-067-584-010	BVT2 + 3 - 6 W/O SLOT
K	87-591-094-410	QIT + 3 - 6
L	87-591-171-410	QIT + 4 - 10
M	87-257-094-010	U + 3 - 6 [B] (950)
N	87-067-981-010	BVT2 + 3 - 6 [B]
O	87-067-673-010	BVTT + 3 - 8 [B]
P	87-067-822-010	BVT2 + 3 - 20 W/O SLOT

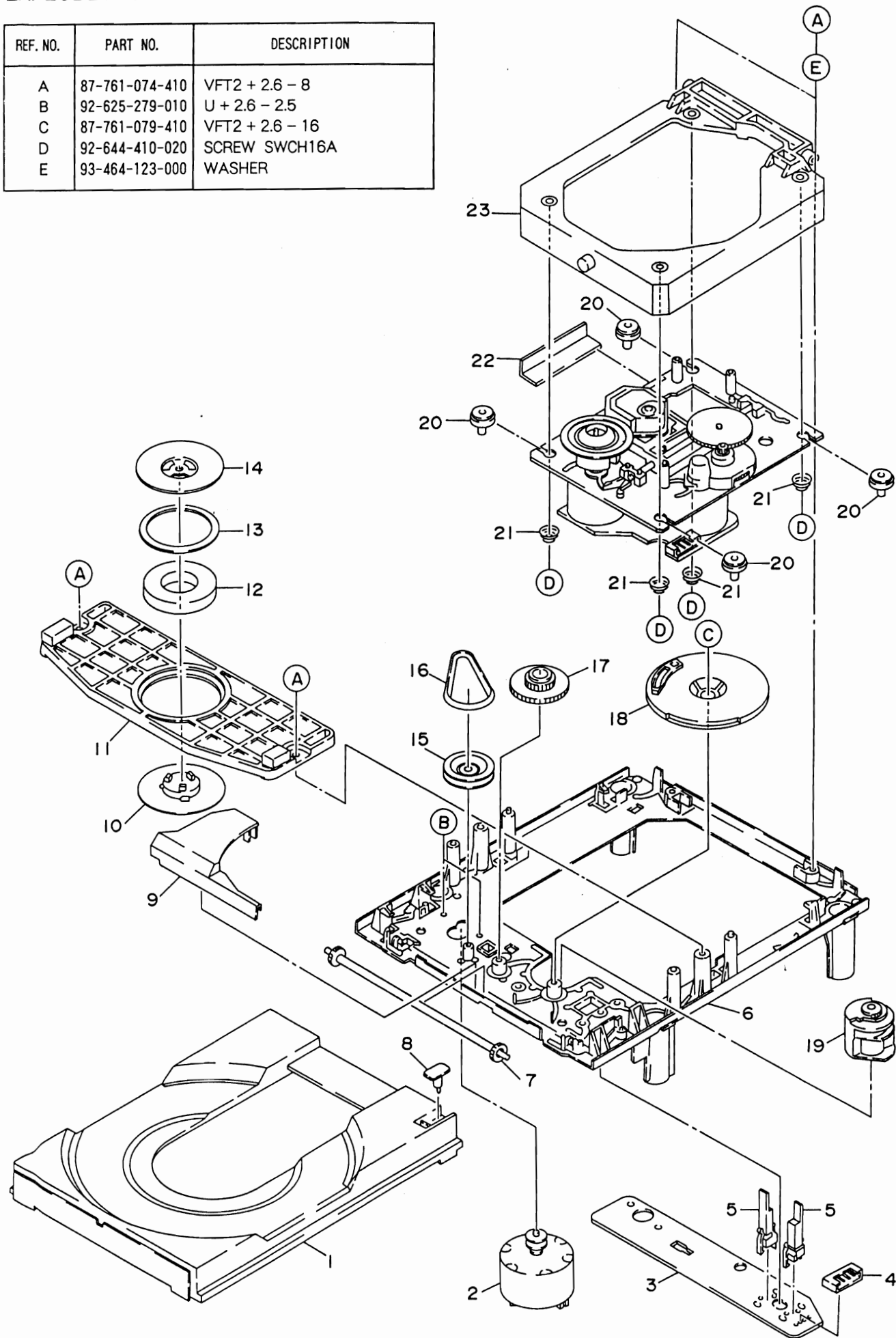


MECHANICAL PARTS LIST

PART NO. CHANGED TO	REF. NO.	PART NO.	DESCRIPTION	COMMON MODEL	Q'TY
	1-1	★82-AC1-001-119	CABINET, FRONT	※	1
	1-2	★82-AC1-002-010	PANEL, FRONT (950)	※	1
	1-2	★82-AC3-002-010	PANEL, FRONT (550)	※	1
	1-3	★82-AC1-011-019	KNOB, VOLUME (950)	※	1
	1-3	★82-AC1-012-019	KNOB, HP VOLUME (550)	※	1
	1-4	★82-AC1-018-010	WINDOW, FL (950)	※	1
	1-4	★82-AC3-018-010	WINDOW, FL (550)	※	1
	1-5	★81-DS1-011-019	BADGE, AIWA		1
	1-6	★82-AA1-020-019	WINDOW, RC		1
	1-7	---	HOLDER, CD MECHANISM		2
	1-8	---	HOLDER, CD MECHANISM 2		2
	1-9	★82-AC1-003-019	PANEL, TRAY	※	1
	1-10	★82-AA1-016-019	BUTTON, POWER		1
	1-11	★82-AC1-204-019	ROD, POWER	※	1
	1-12	---	HEAT SINK		1
	1-13	★82-AC3-201-019	CUSHION, G 9.5 - 10 - 10 (550 HE)	※	1
	1-14	---	HOLDER, PT		1
	1-15	---	HOLDER, P.C.B		1
	1-16	★82-318-203-010	HOLDER, PW BOARD MAIN (950)		1
	1-17	★82-AC1-008-018	CABINET, STEEL (950, 550 E, K)	※	1
	1-17	★82-AC1-004-019	CABINET, STEEL (550 HE)	※	1
	1-18	★87-034-781-018	CORD, AC (950, 550 E)		1
	1-18	★87-034-592-018	CORD, AC (950, 550 K)		1
	1-18	★82-187-797-019	CORD, AC (550 HE)		1
	1-19	★87-085-185-010	BUSHING, AC CORD		1
	1-20	★82-AC1-006-019	PANEL, REAR (950 E)	※	1
	1-20	★82-AC1-007-019	PANEL, REAR (950 K)	※	1
	1-20	★82-AC3-005-019	PANEL, REAR (550 HE)	※	1
	1-20	★82-AC3-006-019	PANEL, REAR (550 E)	※	1
	1-20	★82-AC3-007-019	PANEL, REAR (550 K)	※	1
	1-21	★81-AC3-206-218	CHASSIS, MAIN (950, 550 E, K)	※	1
	1-21	★82-AC1-206-119	CHASSIS, MAIN (550 HE)	※	1
	1-22	★82-AA1-029-010	FOOT		4
	1-23	★89-AC1-205-110	P - SPRING, HP		1
	1-24	---	HOLDER, HP		1
	1-25	★82-AC1-016-019	KEY, FUNCTION (950)	※	1
	1-25	★82-AC3-016-019	KEY, FUNCTION (550)	※	1
	1-26	★82-AC1-015-019	KEY, TEN	※	1
	1-27	★82-AC1-019-019	SHEET, FL	※	1
	1-28	★82-AC1-014-019	KEY, INDEX (950)	※	1
	1-28	★82-AC3-014-019	KEY, INDEX (550)	※	1
	1-29	★82-AC1-013-019	KNOB, TIMER (950)	※	1
	1-30	★89-AC1-207-019	GUIDE, FL (950)		1
	1-30	★89-AC2-201-019	GUIDE, FL (550)		1
	1-31	★82-AC1-010-010	FOOT, H17.5	※	1
	1-32	---	BINDER, WIRE (550 E, K)		1

EXPLODED VIEW - 2

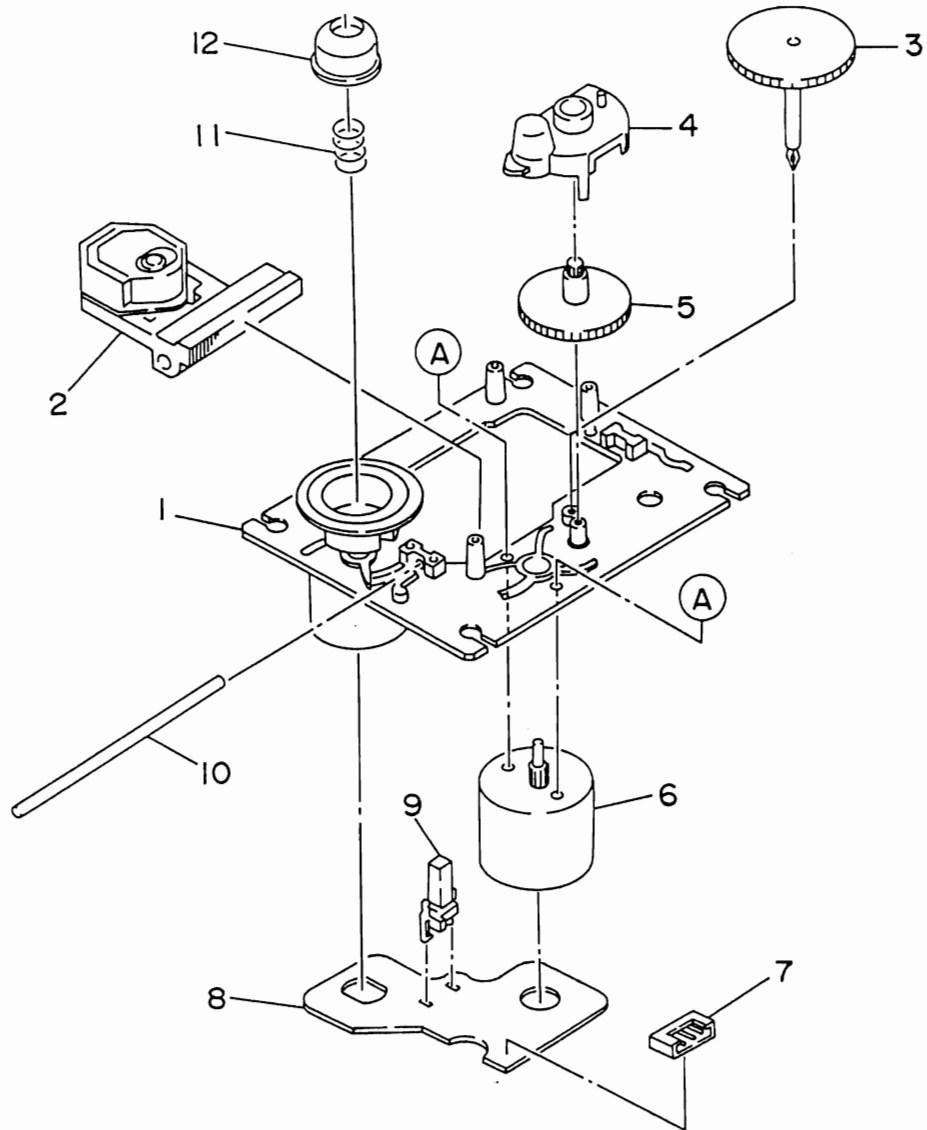
REF. NO.	PART NO.	DESCRIPTION
A	87-761-074-410	VFT2 + 2.6 - 8
B	92-625-279-010	U + 2.6 - 2.5
C	87-761-079-410	VFT2 + 2.6 - 16
D	92-644-410-020	SCREW SWCH16A
E	93-464-123-000	WASHER



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

EXPLODED VIEW - 3

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
	3-1	★9X-262-513-310	T.T CHASSIS ASSY W/MOTOR		1
	3-2	98-848-127-11Z	PICK UP KSS - 210A		1
	3-3	★92-625-188-020	GEAR, A		1
	3-4	★92-625-544-010	COVER		1
	3-5	---	GEAR, B		1
	3-6	★9X-262-513-210	SLED MOTOR ASSY		1
	3-7	★91-564-722-110	CONNECTOR 6P		1
	3-8	---	PWB, MOTOR		1
	3-9	91-572-085-110	SWITCH, LEAF LIMIT		1
	3-10	★94-917-565-010	SHAFT, SLED		1
	3-11	★92-625-191-010	SPRING, COMPRESSION		1
	3-12	★92-625-187-010	RING, CENTER		1