ROTEL hifi

STEREO COMPACT DISC PLAYER

RCD-940BX

TECHNICAL MANUAL

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THE ROTEL CO., LTD.
1-36-8, OHOKAYAMA, MEGURO-KU, TOKYO 152, JAPAN
ROTEL ELECTRONICS CO., LTD.
3F-2, NO.35, FU HSING NORTH ROAD, TAIPEI, TAIWAN, REPUBLIC OF CHINA

MN20002218

Safety Caution

PROTECTION OF EYES FROM LASER BEAM DURING SERVICING

THIS SET EMPLOYS A 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 EMMISIOM,BE SURE TO OBSERVE FROM A DISTANCE OF MORE THAN 30cm FROM THE SURFACE OF THE OBJECTIVE LENS ON THE OPTICAL PICK-UP BLOCK.

LASER WARNING LABEL

THE LABEL SHOWN BELOW ARE AFFIXED.

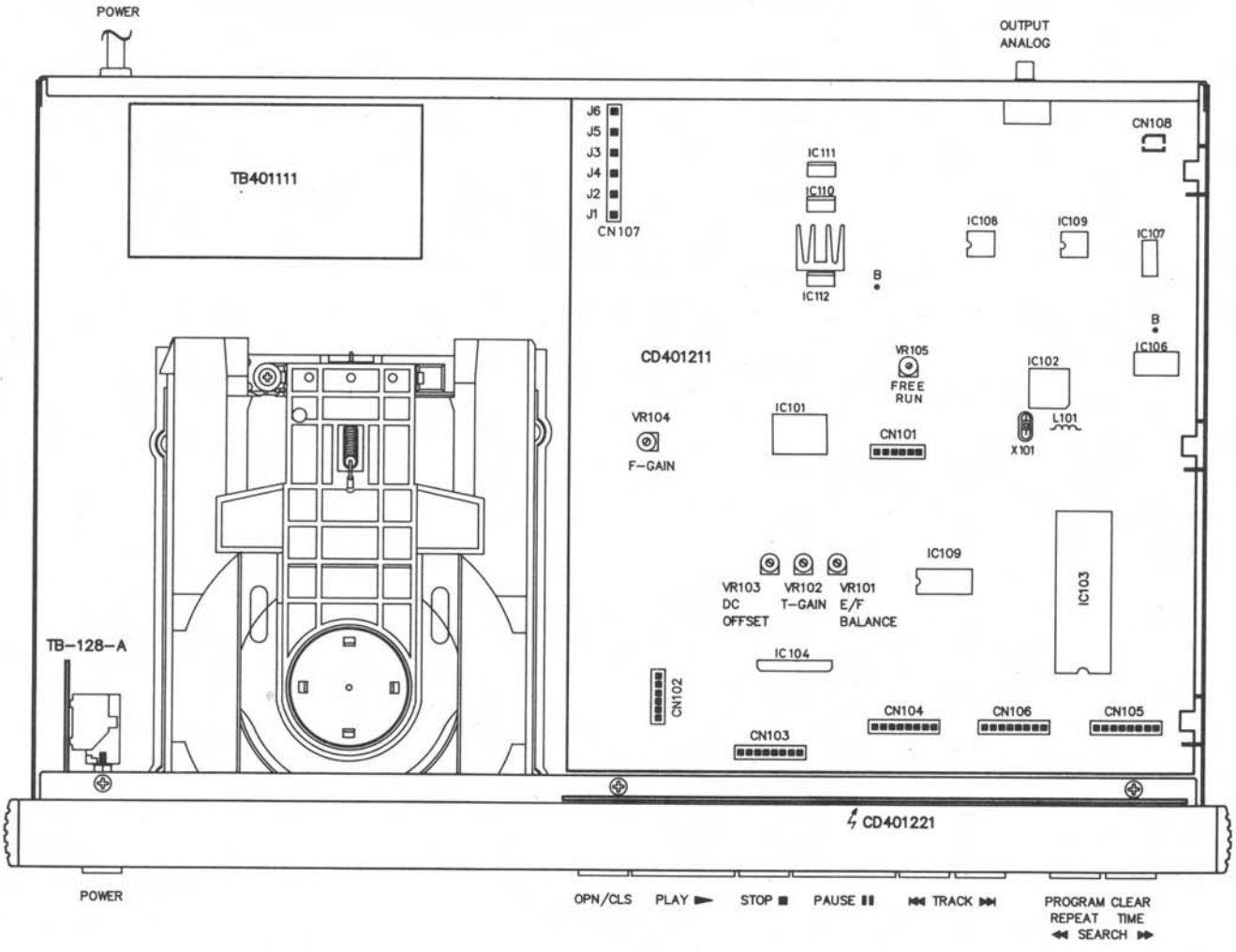
CAUTION

INVISIBLE LASER RADIATION WHEN OPEN, DO NOT STARE INTO BEAM.

DANGER

INVISIBLE LASER RADIATION WHEN OPEN, AVOID DIRECT EXPOSURE TO BEAM.

Chassis Layout



Specifications

RCD 940BX COMPACT DISC PLAYER

Frequency response	5 - 20,000 Hz ± 0.8 dB
Harmonic distortion	< 0.005% @ 1 kHz
Channel separation	> 90 dB @ 1 kHz
Speed accuracy, wow and flutter	Quartz crystal accuracy
Signal to noise ratio	> 110 dB
Digital to analog converter	18 bit linear
Digital filter	8 x Oversampling
Power requirements	115 volts AC 50/60 Hz 230 volts AC 50/60 Hz
Power consumption	30 watts
Weight	4.4 kgs/ 9.7 lbs
Dimensions	440 (w) x 92 (h) x 316 (d) mm 17-3/8" (w) x 3-5/8" (h) x 12-7/16" (d)

All specifications are accurate at the time of printing. Rotel reserves the right to make improvements without notice.

ADJUSTMENT PROCEDURES

REQUIRED EQUIPMENTS

- DC Voltmeter
- Dualtrace Oscilloscope
- Frequency Counter
- Signal Generator
- Plastic Screwdriver
- Test Disc (SONY: YEDS18, TEAC: MCD-111)

SETTING OF INITIAL POSITION OF VOLUME

The variable resistors are set to the following inital positions.

VR101 (E-F BAL)	Mechanical center
VR102 (T GAIN)	Mechanical center
VR103 (TOFFSET)	Mechanical center
VR104 (F GAIN)	Mechanical center
VR105 (PLL)	Mechanical center

FREE RUN FREQUENCY ADJUSTMENT

1. Turn on the power and set the unit to the STOP mode.
2. Connect the frequency counter between jumper PCK and GND (use probes 10:1).
3. Short R138 (IC102 side) and GND.
4. Adjust VR105 so that the frequency counter indicates 4.2218 MHz (± 10KHz).

FOCUS OFFSET CONFIRMATION

1. Turn on the power and set the unit to the STOP mode.
2. Connect a DC voltmeter and oscilloscope between jumper FC and GND.
3. Confirm that the indication on the DC voltmeter is -0.7V / -1.5V.

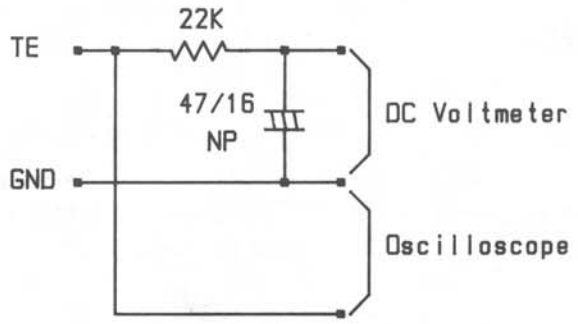
TRACKING OFFSET ADJUSTMENT

1. Turn on the power and set the unit to the STOP mode.
2. Connect a DC voltmeter and oscilloscope between jumper TC and GND.
3. Short jumper TOFF and GND.
4. Adjust VR103 so that the indication on the DC voltmeter is 0.1V ± 20mV.

NOTE: This adjustment should be made again after the adjustment of tracking Gain and E-F balance.

E-F BALANCE ADJUSTMENT

1. Turn on the power short jumper TEST and GND and jumper TROF and GND so that tracking servo is off.
2. Place test disc MCD-111 on the table load.
3. Connect a DC voltmeter and oscilloscope to jumper **TE** and **GND** through the low-pass filter shown below.



4. Press the PLAY button.
5. Adjust VR101 so that the DC voltmeter and oscilloscope is minimum voltage (wave form on oscilloscope is symmetrical to 0V line).

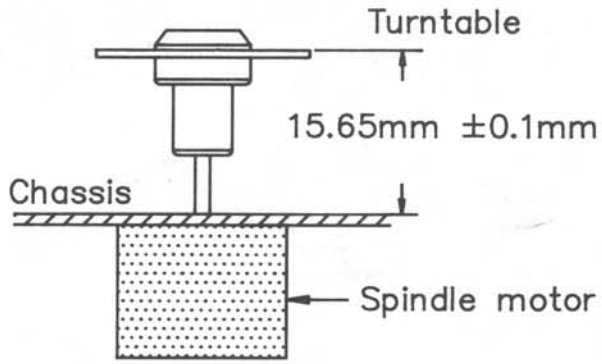
CONFIRMATION HF

Connect an oscilloscope to jumper HF and GND and observe the indication is 2.0 -3.3 Vp-p.

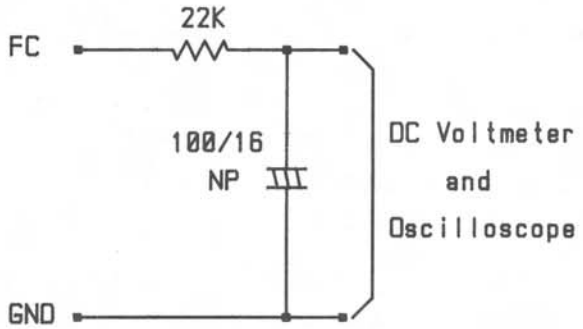
ADJUSTMENT OF TURNTABLE HEIGHT

This adjustment must be made when the motor replaced.

1. Attach the turntable so that its top surface is 15.65mm ± 0.1mm from the top of the chassis.



2. Connect test jumper **FC** and **GND** to a DC voltmeter and oscilloscope through the low-pass filter.



3. Turn on the power and playback the first selection on test disc SONY YEDS18.
4. Readjust the height of the turntable if the reading on the DC voltmeter is not in the range of below.
   INSIDE: 0V ± 0.2V.
   OUTSIDE: 0V ± 0.35V.
   Adjusting turntable is height by 0.55-0.65mm shift voltage by 1V.

- Remove connector CN102 from the pick-up and connect the measurement circuit between the main PCB and pick-up.
- The IC used is TA7256P.
- VR control 2 kohm shorts **IN** and **SG**, 1kHz 1Vp-p is supplide from the signal generator, and adjustment is made for minimun output from **OUT**.

ADJUSTMENT OF FOCUS/TRACKING GAIN

The measurement circuit shown in the previous page is necessary for accurate adjustment of the focus and tracking gain. If this circuit cannot be made. make adjustments using the simplified procedure.

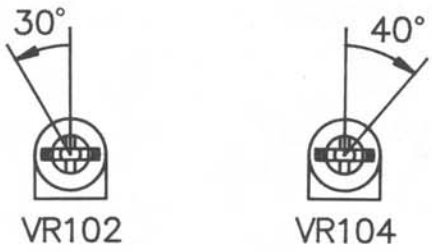
SIMPLIFIED ADJUSTMENT PROCEDURE

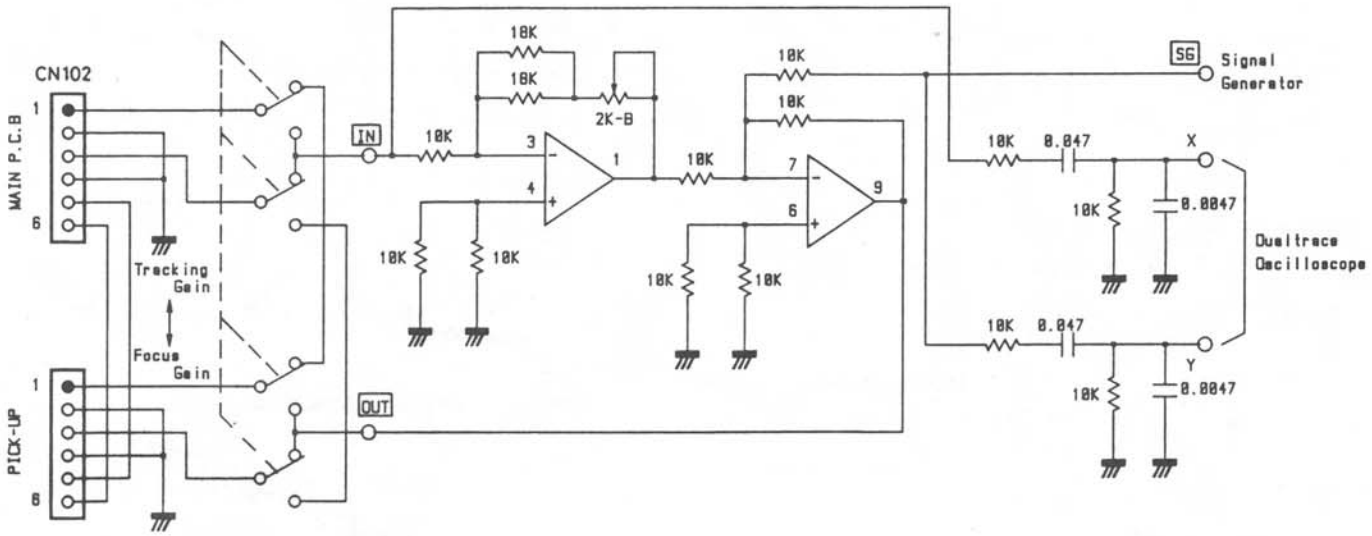
Tracking gain adjustment

VR102 set to a position 30° from its mechanical center as shown in the diagram below.

Focus gain adjustment

VR104 set to a position 40° from its mechanical center as shown in the diagram below.





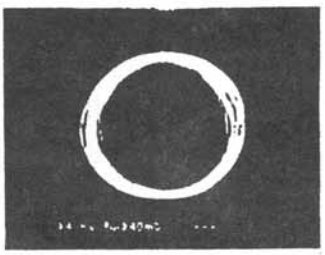
PRECISE ADJUSTMENT PROCEDURE

• Tracking gain adjustment

1. Connect the measurement circuit shown above, turn on the power, and mount the test disk.
2. Play back the first selection on the test disk, and apply a 1800Hz 0.5Vp-p signal from the signal generator.
3. Observe the resurge waveforms on the oscilloscops, and adjust VR102 so that the phase difference of outputs X and Y from the measurement circuit is 90°.

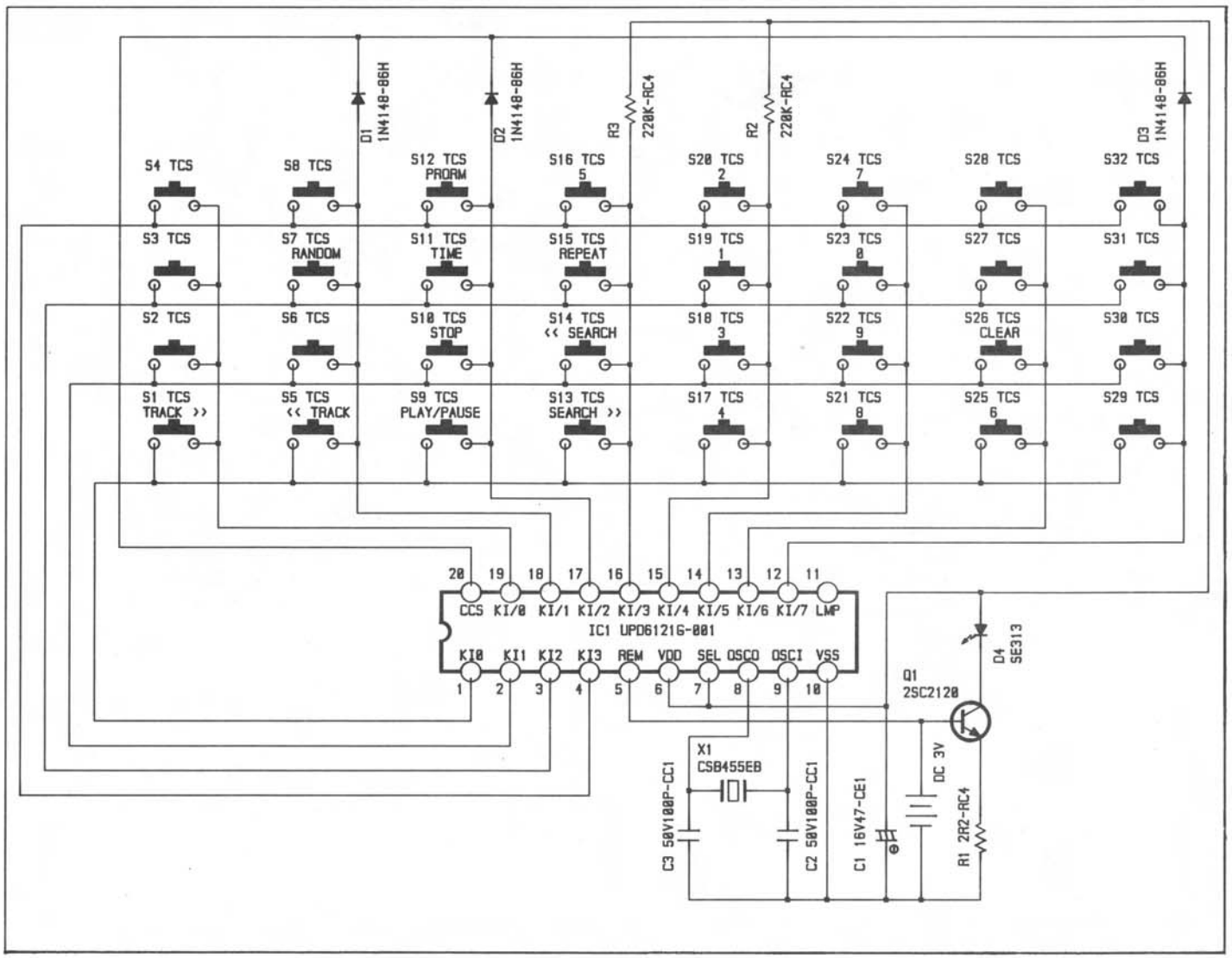
• Focus gain adjustment

1. Connect the measurment circuit shown above, turn on the power,and mount the test disk.
2. Play back the first selection on the test disk, and apply a 1050Hz 0.5Vp-p signal from the signal generator.
3. Observe the resurge waveforms on the oscilloscope, and adjust VR104 so that the phass differance of outputs X and Y from the measurement circuit is 90°.

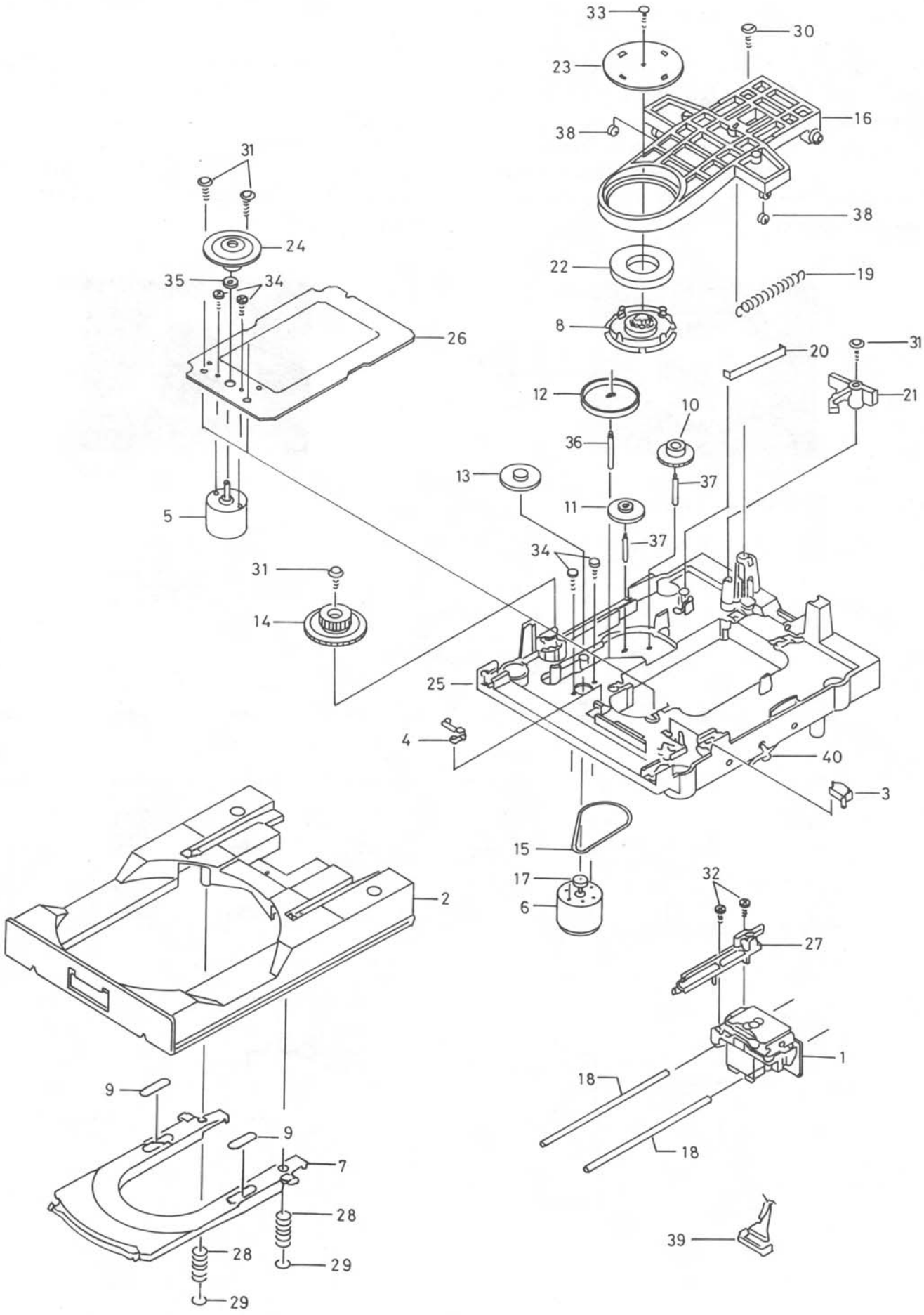


REMOTE CONTROL HANDSET

SCHEMATIC DIAGRAM MODEL NO. RR-921



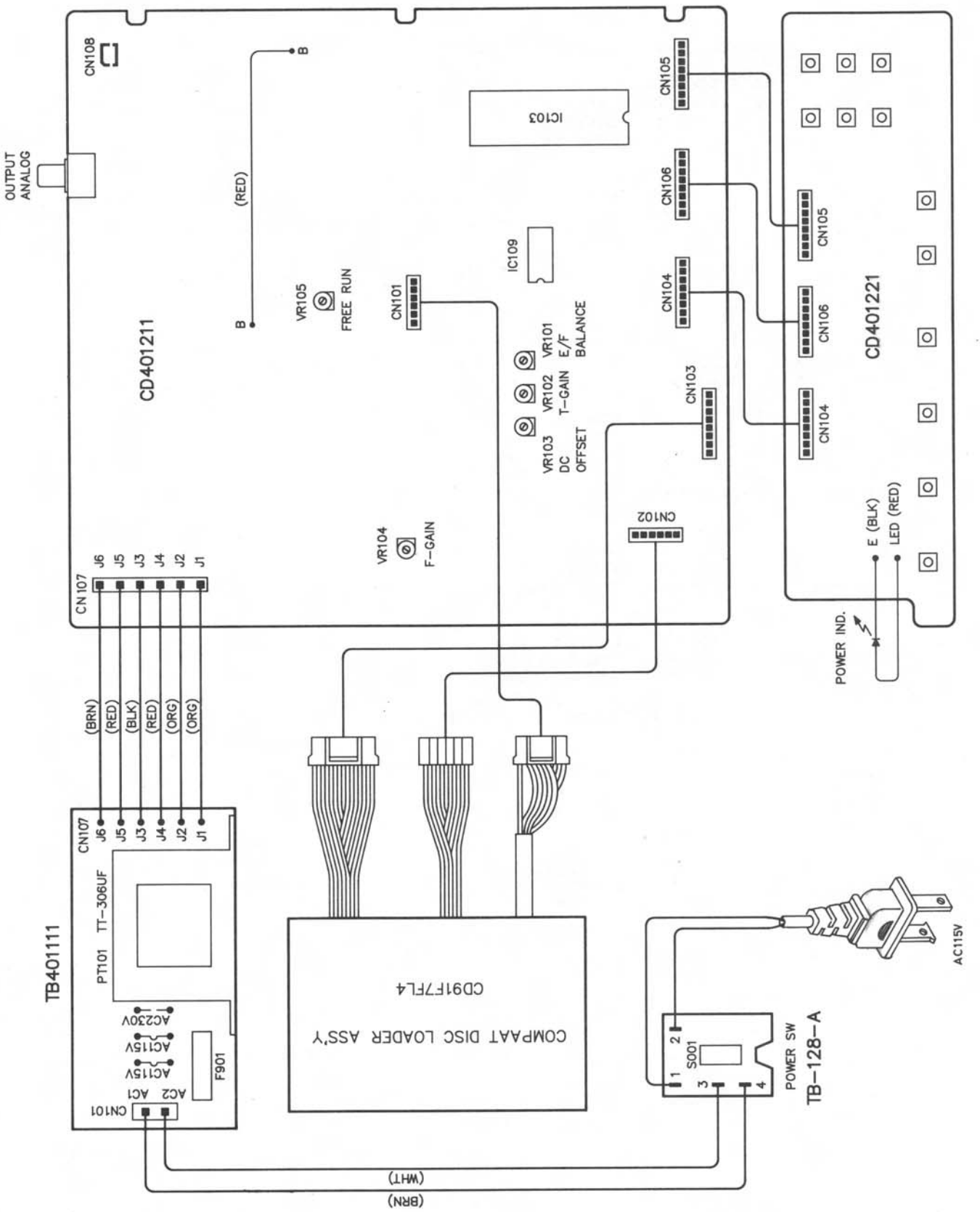
Disassembly Diagram



MECHANISM PARTS LIST

ITEM	DESCRIPTION	PARTS CODE
01-01	4A41000200	PICKUP,LASER,PIK
01-02	2761A00500	TABLE,LOADING
01-03	A231207010	LEVER SW 1PIT
01-04	A231979890	LEAF SW
01-05	A527971820	MOTOR
01-06	OM10A02100	ASSY,MOTOR,3.0V,0.3W
01-07	2713A00500	LIFTER,CD,TABLE
01-08	2451A03500	HOLDER,DISC
01-09	2571A01200	FELT,DISC
01-10	2511A07600	GEAR,PINION PICK
01-11	2511A07500	GEAR,LOAD PICK
01-12	2511A07900	GEAR,PULLY
01-13	2511A07700	GEAR,LOAD TABLE
01-14	2511A07800	GEAR,PINION TABLE
01-15	2563A01600	BELT,SQUARE
01-16	2762A00200	FLAP,DISC CLAMP
01-17	2523A01500	PULLY MOTOR
01-18	2744A00200	SHAFT,SLIDE,PICK
01-19	2811A03500	SPRING,TENS,FLAP
01-20	2814A03600	SPRING,PLATE
01-21	2711A04300	ARM,CHANGE
01-22	2641A01300	MAGNET,DISC CLAMP
01-23	2642A00500	YOKE,MAGNET
01-24	B522900300	TURNTABLE ASSY
01-25	2311A05000	CHASSIS,LOAD
01-26	2311A05100	CHASSIS,CD
01-27	2511A07400	GEAR,RACK
01-28	2812A03900	SPRING,COMP,TABLE
01-29	2381002200	SPECIAL SCREW
01-30	M420128300	SCREW (B TITE SEMS) Z
01-31	E421942700	SCREW WASHER
01-32	SE205R001A	SCR FLT PCS 2x5
01-33	SF204R001E	SCR S-TPG PIN 2x4
01-34	SE172R502M	SCR PAN PCS 1.7x2.5
01-35	2383000900	SPECIAL WASHER
01-36	2551A04800	SPINDLE,GEAR L
01-37	2551A04900	SPINDLE,GEAR S
01-38	2751A00800	ROLLER,FRAP
01-39	0J13A31100	ASSY,CONNECTOR-S.PH9P
01-40	E472907100	WIRE BAND

Wiring Diagram



Parts List

NOTE:THE COMPONENTS INDENTIFIED BY ⚠ MARK ARE FOR SAFFTY.REPLACE ONLY WITH ORIGINAL PARTS.DO NOT SUBSTITUTE.

SYMBOL	PARTS NO.	DESCRIPTION
	CD401211 PCB ASSEMBLY	
R101	RD51001823	R,CARBON 1K 1/4W J
R102	RD51002827	R,CARBON 10K 1/4W J
R103	RD52201820	R,CARBON 2.2K 1/4W J
R104	RD51004824	R,CARBON 1M 1/4W J
R105	RD52701828	R,CARBON 2.7K 1/4W J
R106,107	RD53903822	R,CARBON 390K 1/4W J
R108	RD55602825	R,CARBON 56K 1/4W J
R109	RD28202828	R,CARBON 82K 1/4W J
R110	RD51503820	R,CARBON 150K 14/W J
R111	RD55602825	R,CARBON 56K 1/4W J
R112	RD54702824	R,CARBON 47K 1/4W J
R113	RD51201824	R,CARBON 1.2K 1/4W J
R114	RD51502814	R,CARBON 15K 1/4W J
R115	RD28200823	R,CARBON 820 1/4W J
R116	RD51802820	R,CARBON 18K 1/4W J
R117	RD55604822	R,CARBON 5.6M 1/4W J
R118	RD51501820	R,CARBON 1.5K 1/4W J
R119-121	RD52202824	R,CARBON 22K 1/4W J
R122	RD26800823	R,CARBON 680 1/4W J
R123	RD52202824	R,CARBON 22K 1/4W J
R124	RD52208826	R,CARBON 2.2 1/4W J
R125	RD54701820	R,CARBON 4.7K 1/4W J
R126,127	RD52203820	R,CARBON 220K 1/4W J
R128	RD52202824	R,CARBON 22K 1/4W J
R129	RD54703828	R,CARBON 470K 1/4W J
R130	RD51003820	R,CARBON 100K 1/4W J
R131	RD51002827	R,CARBON 10K 1/4W J
R132	RD21803822	R,CARBON 180K 1/4W J
R133,134	RD53302826	R,CARBON 33K 1/4W J
R135	RD51000820	R,CARBON 100 1/4W J
R136	RD51002827	R,CARBON 10K 1/4W J
R137	RD51003820	R,CARBON 100K 1/4W J
R138	RD51002827	R,CARBON 10K 1/4W J
R139	RD51003820	R,CARBON 100K 1/4W J
R140	RD52201820	R,CARBON 2.2K 1/4W J
R141	RD51502824	R,CARBON 15K 1/4W J
R142	RD54701820	R,CARBON 4.7K 1/4W J
R143	RD53301822	R,CARBON 3.3K 1/4W J
R144	RD52203828	R,CARBON 220K 1/4W J
R145	RD26802820	R,CARBON 68K 1/4W J
R146	RD54702824	R,CARBON 47K 1/4W J
R147	RD53302826	R,CARBON 33K 1/4W J
R148	RD51002827	R,CARBON 10K 1/4W J
R149	RD51502824	R,CARBON 15K 1/4W J
R150-153	RD52208826	R,CARBON 2.2 1/4W J
R154	RD54702824	R,CARBON 47K 1/4W J
R155	RD51501820	R,CARBON 1.5K 1/4W J
R156	RD51003820	R,CARBON 100K 1/4W J
R157	RD54700827	R,CARBON 470 1/4W J
R158	RD51002827	R,CARBON 10K 1/4W J
R159	RD25603827	R,CARBON 560K 1/4W J
R160	RD51003820	R,CARBON 100K 1/4W J
R161	RD54703828	R,CARBON 470K 1/4W J
R162	RD54702824	R,CARBON 47K 1/4W J
R163	RD54703828	R,CARBON 470K 1/4W J
R164	RD54702824	R,CARBON 47K 1/4W J
R165	RD52202824	R,CARBON 22K 1/4W J
R166	RD51001823	R,CARBON 1K 1/4W J
R167	RD54700827	R,CARBON 470 1/4W J
R168-170	RD51002827	R,CARBON 10K 1/4W J
R171	RD51003820	R,CARBON 100K 1/4W J
R172-176	RD51002827	R,CARBON 10K 1/4W J
R177	RD52201820	R,CARBON 2.2K 1/4W J
R178	RD54708826	R,CARBON 4.7 1/4W J
R179-182	RD52200827	R,CARBON 220 1/4W J
R183	RD52202824	R,CARBON 22K 1/4W J
R184-186	RM11000712	R,METAL MRS25100R 0.6W
R187-190	RM14701711	R,METAL MRS25K7 0.6W

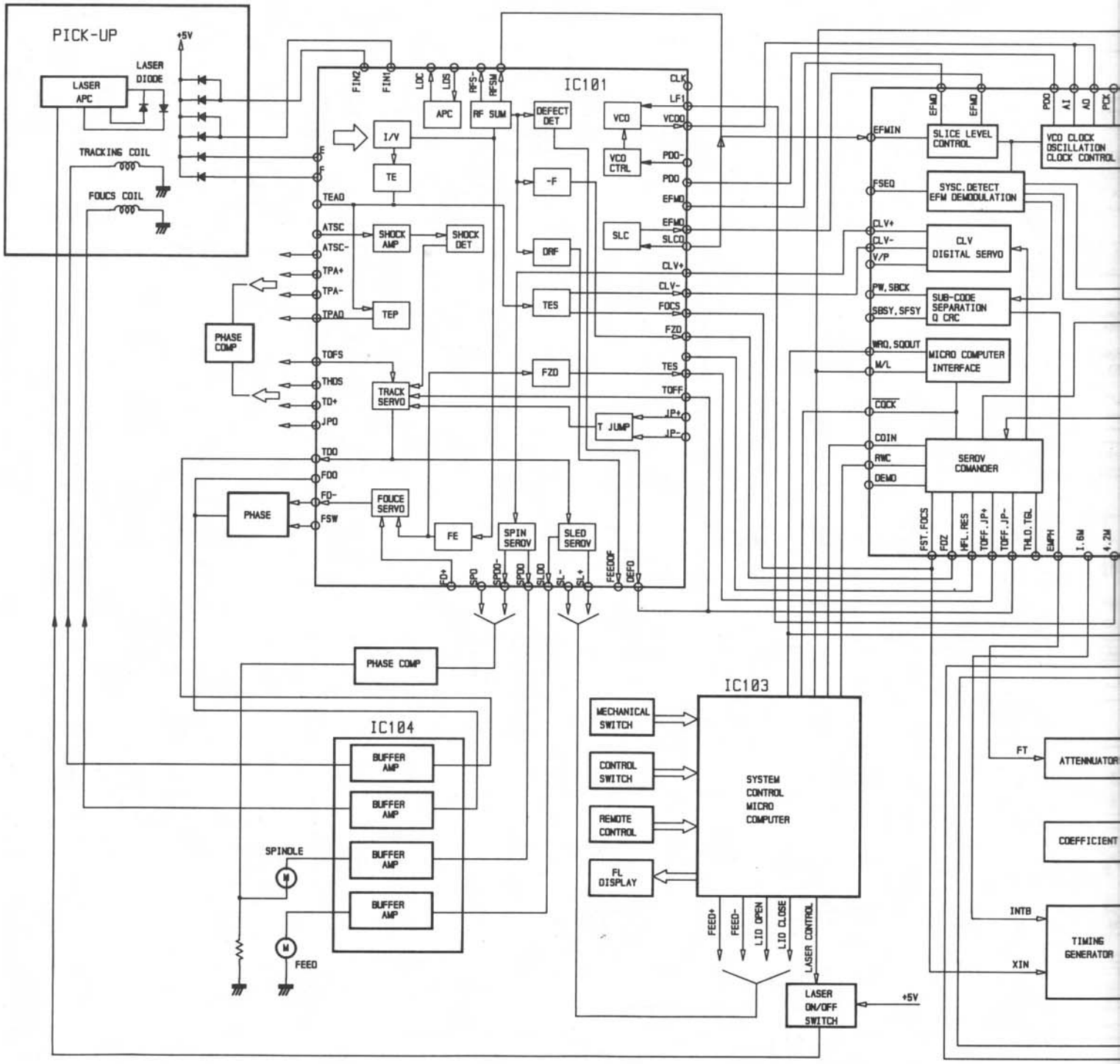
SYMBOL	PARTS NO.	DESCRIPTION
R191,192	RM02201718	R,METAL MRS252K2 0.6W
R193,194	RM11201717	R,METAL MRS251K2 0.6W
R195,196	RM14702715	R,METAL MRS2547K 0.6W
R197-200	RM12200717	R,METAL MRS25220R 0.6W
R201-204	RD56801829	R,CARBON 6.8K 1/4W J
R205	RD52203828	R,CARBON 220K 1/4W J
R206	RD54702824	R,CARBON 47K 1/4W J
R207	RD51002827	R,CARBON 10K 1/4W J
R208	RD52202824	R,CARBON 22K 1/4W J
R209	RD54700827	R,CARBON 470 1/4W J
R210	RD51000820	R,CARBON 100 1/4W J
R211	RD51002827	R,CARBON 10K 1/4W J
R212	RD51003820	R,CARBON 100K 1/4W J
R213	RD54702824	R,CARBON 47K 1/4W J
R214	RD51002827	R,CARBON 10K 1/4W J
R215,216	RD53301822	R,CARBON 3.3K 1/4W J
R217,218	RD58201829	R,CARBON 8.2K 1/4W J
R219	RD55600828	R,CARBON 560 1/4W J
R220	RD54701820	R,CARBON 4.7K 1/4W J
R221,222	RD54700827	R,CARBON 470 1/4W J
R223,224	RD52209820	R,CARBON 22 1/4W J
R226,227	RM14702715	R,METAL MRS2547K 0.6W
R228	RD51001823	R,CARBON 1K 1/4W J
C101	CC41009462	CAP,CERAMIC 50V 0.01uF
C102	CE41006500	CAP,ELEC. 50V 10uF
C103	CE41005257	CAP,ELEC. 25V 100uF
C104	CC45009456	CAP,CERAMIC 50V 0.047uF
C105	CE41005257	CAP,ELEC. 25V 100uF
C106	CC45009456	CAP,CERAMIC 50V 0.047uF
C107	CC41009462	CAP,CERAMIC 50V 0.01uF
C108	CC71010430	CAP,CERAMIC HE50TKYB102K
C109	CM11509423	CAP,MYLAR 50V 103J
C110,111	CM14709423	CAP,MYLAR 50V 473J
C112	CM11008422	CAP,MYLAR 50V 104J
C113	CM16809421	CAP,MYLAR 50V 683J
C114	CM11008422	CAP,MYLAR 50V 104J
C115	CE02005255	CAP,ELEC. 25V 220uF
C116	CE41006500	CAP,ELEC. 50V 10uF
C117	CM14709423	CAP,MYLAR 50V 473J
C118	CC71011422	CAP,CERAMIC HE50TKSL101J
C119	CN01007507	CAP,NON-POLARIZER NP 50V 1uF
C120	CM13310427	CAP,MYLAR 50V 332J
C121	CE42206507	CAP,ELEC. 50V 22uF
C122	CQ03309423	CAP,POLYESTER FILM TECQB1H333JF3
C123	CC01008458	CAP,CERAMIC 50V 0.1uF
C124	CC74711420	CAP,CERAMIC HE90TKSL471J
C125	CM13909428	CAP,MYLAR 50V 393J
C126	CC72211420	CAP,CERAMIC HF70TKSL221J
C127	CC71010430	CAP,CERAMIC HF50TKYB102K
C128	CE44708504	CAP,ELEC. 50V 0.47uF
C129	CQ03309423	CAP,POLYESTER FILM TECQB1H333JF3
C130	CC41009462	CAP,CERAMIC 50V 0.01uF
C131	CC72211420	CAP,CERAMIC HF70TKSL221J
C132	CE44708504	CAP,ELEC. 50V 0.47uF
C133	CC45009456	CAP,CERAMIC 50V 0.047uF
C134	CC42013485	CAP,CERAMIC 50V 2PF
C135	CC45013484	CAP,CERAMIC 50V 5PF
C136	CC41009462	CAP,CERAMIC 50V 0.01uF
C137	CE41005257	CAP,ELEC. 25V 100uF
C138	CC71010430	CAP,CERAMIC HE50TKYB102K
C139,140	CC52212429	CAP,CERAMIC 50V 22PF
C141	CC01008458	CAP,CERAMIC 50V 0.1uF
C142	CE41005257	CAP,ELEC. 25V 100uF
C143	CC45009456	CAP,CERAMIC 50V 0.047uF
C144	CE41005257	CAP,ELEC. 25V 100uF
C145	CC44709422	CAP,CERAMIC DSXE65TKY473Z
C147	CE02205255	CAP,ELEC. 25V 220uF

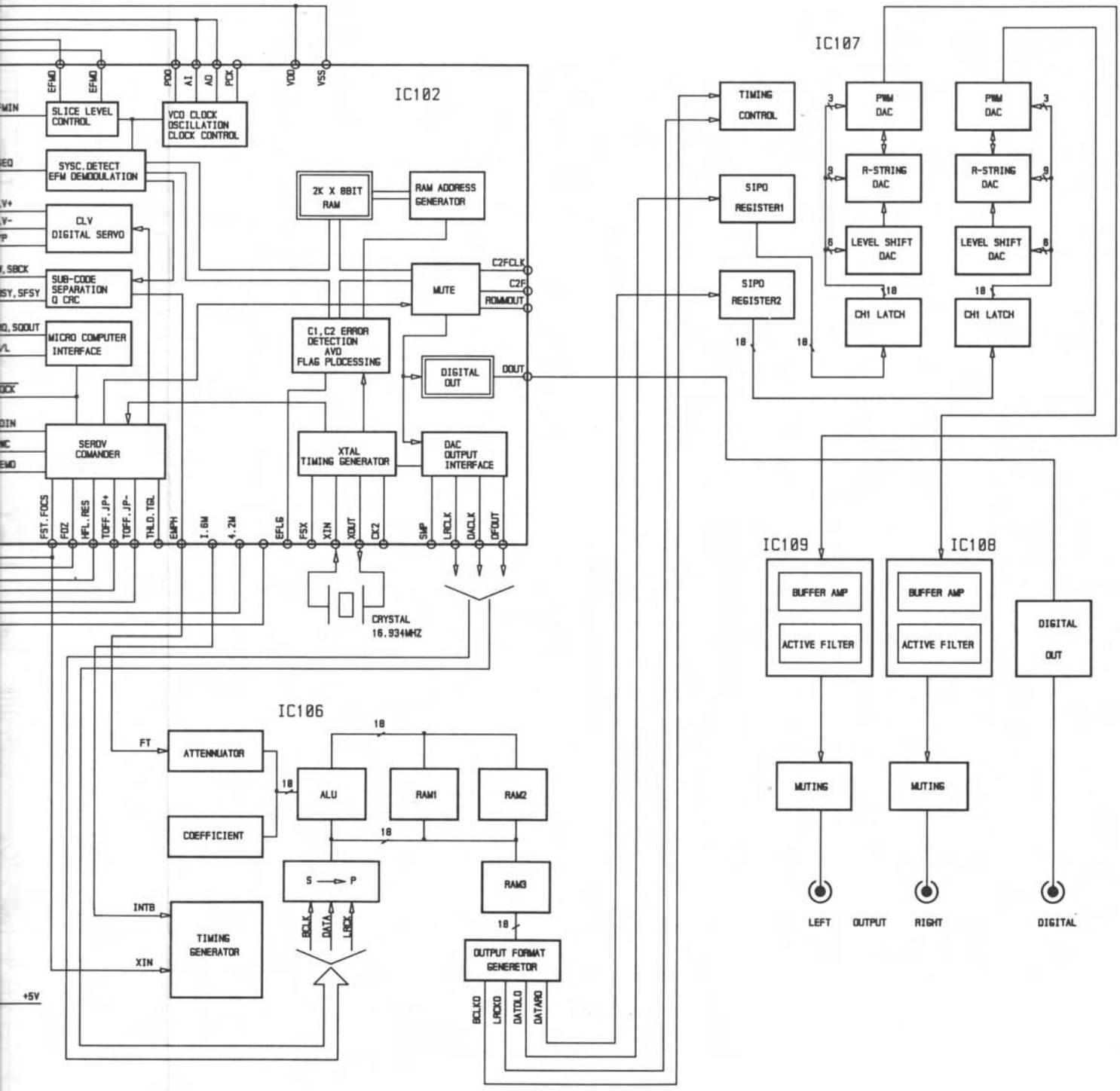
Parts List

SYMBOL	PARTS NO.	DESCRIPTION
C148-151	CC45009456	CAP,CERAMIC 50V 0.047uF
C152	CE41005257	CAP,ELEC. 25V 100uF
C153,154	CE44706258	CAP,ELEC. 25V 47uF
C155	CE41007503	CAP,ELEC. 50V 1uF
C156	CE43308464	CAP,ELEC. 50V 0.33uF
C157	CC41009462	CAP,CERAMIC 50V 0.01uF
C158,159	CM11010428	CAP,MYLAR 50V 102J
C160,161	CM14709423	CAP,MYLAR 50V 473J
C164	CC45009456	CAP,CERAMIC 50V 0.047uF
C165	CE41005257	CAP,ELEC. 25V 100uF
C166,167	CS47511428	CAP,STYROL 50V 750P
C168,169	CS41010429	CAP,STYROL 50V 1000P
C170,171	CE61005743	CAP,ELEC. 16BGF100M
C172,173	CS41010429	CAP,STYROL 50V 1000P
C174,175	CE51005679	CAP,ELEC. 25BGF100M
C176,178	CE41005257	CAP,ELEC. 25V100uF
C179,180	CE51005679	CAP,ELEC. 25BGF100M
C181	CE51003774	CAP,ELEC. UVX1C103MH1AA
C182	CE04705358	CAP,ELEC. 35V 470uF
C183	CE04705504	CAP,ELEC. 50V 470uF
C184	CE44706568	CAP,ELEC. 35V 47uF
C185,186	CE02204251	CAP,ELEC. 25V 2200uF
C187	CE04705255	CAP,ELEC. 25V 470uF
C188	CE42207500	CAP,ELEC. 50V 2.2uF
C188-192	CC01009256	CAP,CERAMIC 250V 0.1uF ⚠
IC101	IC00003483	IC LA9201M
IC102	IC00003550	IC LC7867E
IC103	IC00003458	IC LC6538D-4814
IC104	IC00003549	IC LA6524
IC105	IC00002340	IC TC4081BP/UPD4081BC
IC106	IC00003471	IC LC78840M
IC107	IC00003460	IC LC78820M-BC
IC108,109	IC00003770	IC TL052CP
IC110	IC00002582	IC NJM79M09
IC111	IC00002570	IC NJM78M09
IC112	IC00000615	IC NJM78M05
D101-113	DD80000021	DIODE IN4148-86
D114	DD20000387	DIODE RD-3.9E
D115,116	DD80000021	DIODE IN4148-86
D117	DD20000272	ZENER DIODE RD-7.5E
D118	DD20000030	DIODE RD-30E
D119	DD20000200	DIODE RD-5.1E
D120-129	DD80000010	DIODE IN4003-TB
Q101	TR10000126	TRANSISTOR 2SA608KF
Q102	TR10000254	TRANSISTOR 2SA1345
Q103	TR30000492	TRANSISTOR 2SC3399
Q104	TR10000126	TRANSISTOR 2SA608KF
Q105	TR30000492	TRANSISTOR 2SC3399
Q106	TR10000254	TRANSISTOR 2SA1345
Q107,108	TR30000492	TRANSISTOR 2SC3399
Q109	TR10000126	TRANSISTOR 2SA608KF
Q110	TR30000327	TRANSISTOR 2SC536G-NP
Q111-114	TR30000583	TRANSISTOR 2SC2878 (A,B)
Q115	TR10000126	TRANSISTOR 2SA608KF
Q116,117	TR30000492	TRANSISTOR 2SC3399
Q118,119	TR30000327	TRANSISTOR 2SC536G-NP
X101	DD60000362	CRYSTAL OSC. 16.9344MHz
L101	LM00000607	MICRO INDUCTOR TRL-384
VR101	RV20000430	R,SEMI-FIXED RH0615C10300
VR102	RV20000521	R,SEMI-FIXED RH0615C47200
VR103	RV20000480	R,SEMI-FIXED RH0615C10400
VR104	RV20000442	R,SEMI-FIXED RH0615C22300
VR105	RV20000480	R,SEMI-FIXED RH0615C10400
JK101	JP02000132	2P PIN JACK 4TR-2166#1
		CD401221 PCB ASSEMBLY
FL101	CD40001397	FL TUBE CPF2377
IC101	IC00002030	REMOTE RECEIVER SBX1610-02

SYMBOL	PARTS NO.	DESCRIPTION
C101	CE41005166	CAP,ELEC. 16V 100uF
SW1-12	SH60000240	KEY BOARD SW 4TR-2343
		TB-128-A PCB ASSEMBLY
C001	CK00000035	SPARK KILLER DE7150F472M ⚠
S001	SH40000120	POWER SW C-3600-B-T ⚠
		TB401111 PCB ASSEMBLY
CN101	SA00002508	CONNECTOR WAFER C-4422A01
		OTHERS
	AF50000054	FRONT CHASSIS 2TQO-2C#2
	AM00002177	CHASSIS BODY 2TQR-2#2
	AR50000095	PRINTED REAR CHASSIS TRP-652
	DI00001375	COMPACT DISC LOADER ASS'Y CD91F7EL4
	PT30616105	POWER TRANSFORMER TT-306-UF ⚠
	FT00000229	PLASTIC FOOT 4TSH-19#2 50Fx14H
	SC00000027	AC CORD STOPPER SR-4N-4 ⚠
	SP10006922	LOADER SUPPORT 4TR-3052
	SR00001308	CUSHION RUBBER 4TR-3076 13F
	SB00001125	P.V.C SHIELD PLATE 4TR-3078A
	SP30000744	PLASTIC COVER 4TR-3091
	CD00000218	AC CORD SPT-2 AWG#18 4TR-670#4 ⚠
	CD00000322	AC POWER CORD 4TR-2757 ⚠
	CD00000048	AC POWER CORD 4TR-1037 ⚠
	CD00000085	AC POWER CORD C-2504A ⚠
	CD00000115	AC POWER CORD C-3763-T ⚠
	NP00001949	NAME STICKER 4TR-2828A#1 AC120V TNP-382
	NP00001962	NAME STICKER 4TR-2828A#3 AC240V TNP-384
	NP00001998	NAME STICKER 4TR-2828A#5 AC230V TNP-389
	NP00002012	NAME STICKER 4TR-2828A#6 AC100V TNP-391
	NP00001950	NAME STICKER 4TR-2828A#2 AC220V TNP-383
	FU25000016	FUSE 250V 500mA UL/CSA ⚠
	FU23000384	FUSE 250V T250mA (S) ⚠
	AA50000132	FRONT PANEL 2TQO-1#2 TFP-718
	AW00000587	PANEL WINDOW 4TQO-7
	BU00001145	POWER RING W/LED 4TQF-13 14x14
	KB20002711	TACT BUTTON 6 KEY 3TQK-8
	KB20002784	TACT BUTTON 2 KEY 3TQO-4
	OM10001272	ORNAMENTAL SIDE BOARD 4TR-2797#2
	KB20002681	POWER BUTTON 4TQF-15 14x14
	DD40000095	LED SEL1124R/LN224R
	OM70000065	PUSH BUTTON CONNECTOR 4TTL-15
	SN00000179	BUTTON SPRING 4TR-1988A#2 10F
	AG00000410	REMOTE CONTROL HANDSET RR-921
	AU00001316	TOP COVER (POLY) 3TTF-5#9
	OM10001740	FL ORNAMENTAL PLATE 4TQR-6#2 TFP-719
	OM10001739	PLASTIC DOOR 3TR-3053
	OM10001764	CD ALUM. DOOR 4TQO-6#3
	SR00000882	UPPER COVER SPACER 4TR-2418
	SR00000961	RUBBER CAP 4TTV-8 6.6MM
	OM70000193	FILTER BOARD 4TSJ-9#3
	OM70000259	FILTER BOARD 4TSJ-9#4
	PL00001130	STYROL SIDE MOULDING 2TQR-4 TZ-186
	TN10004578	INSIDE CARTON 4TR-2854#18

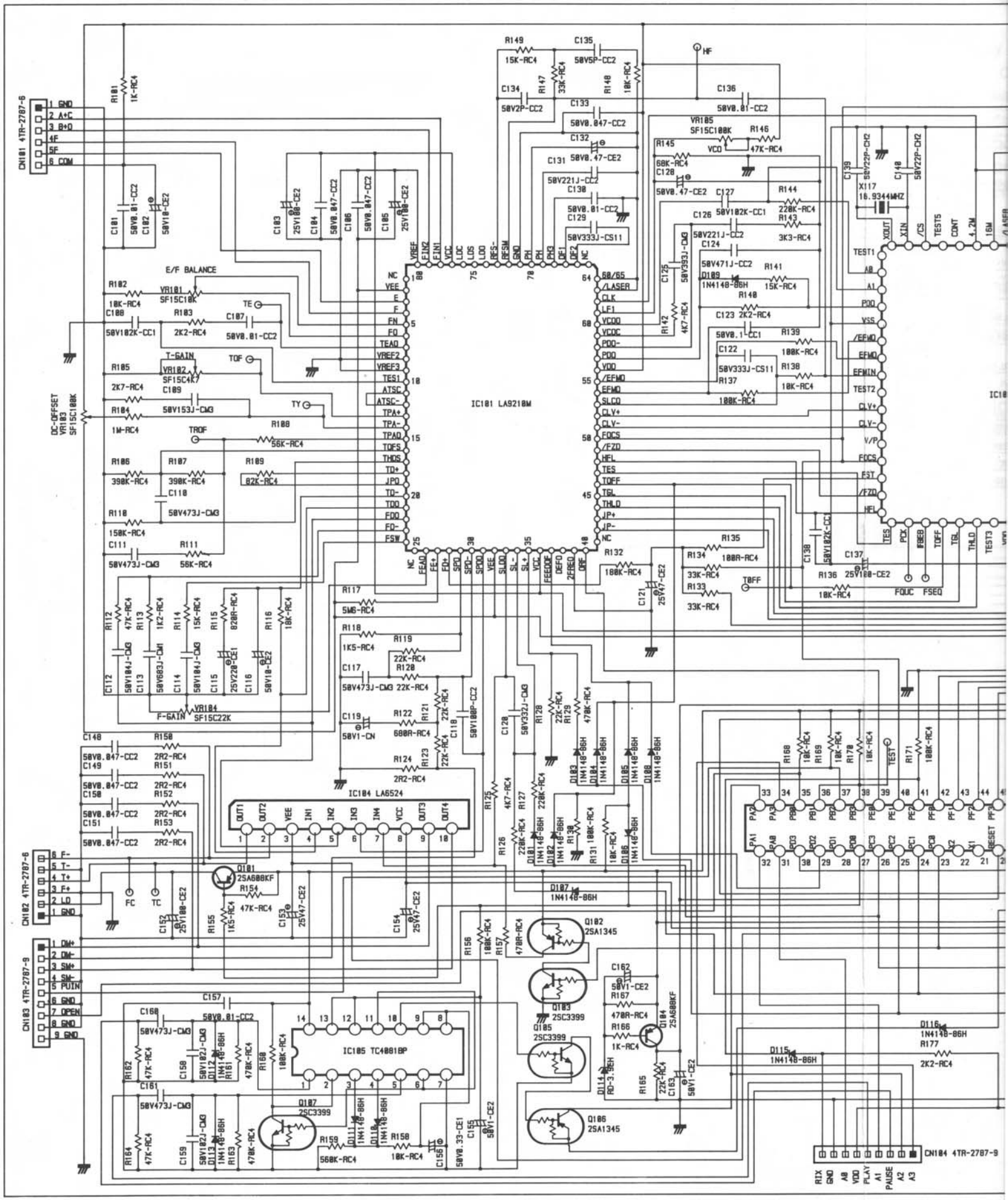
Block Diagram

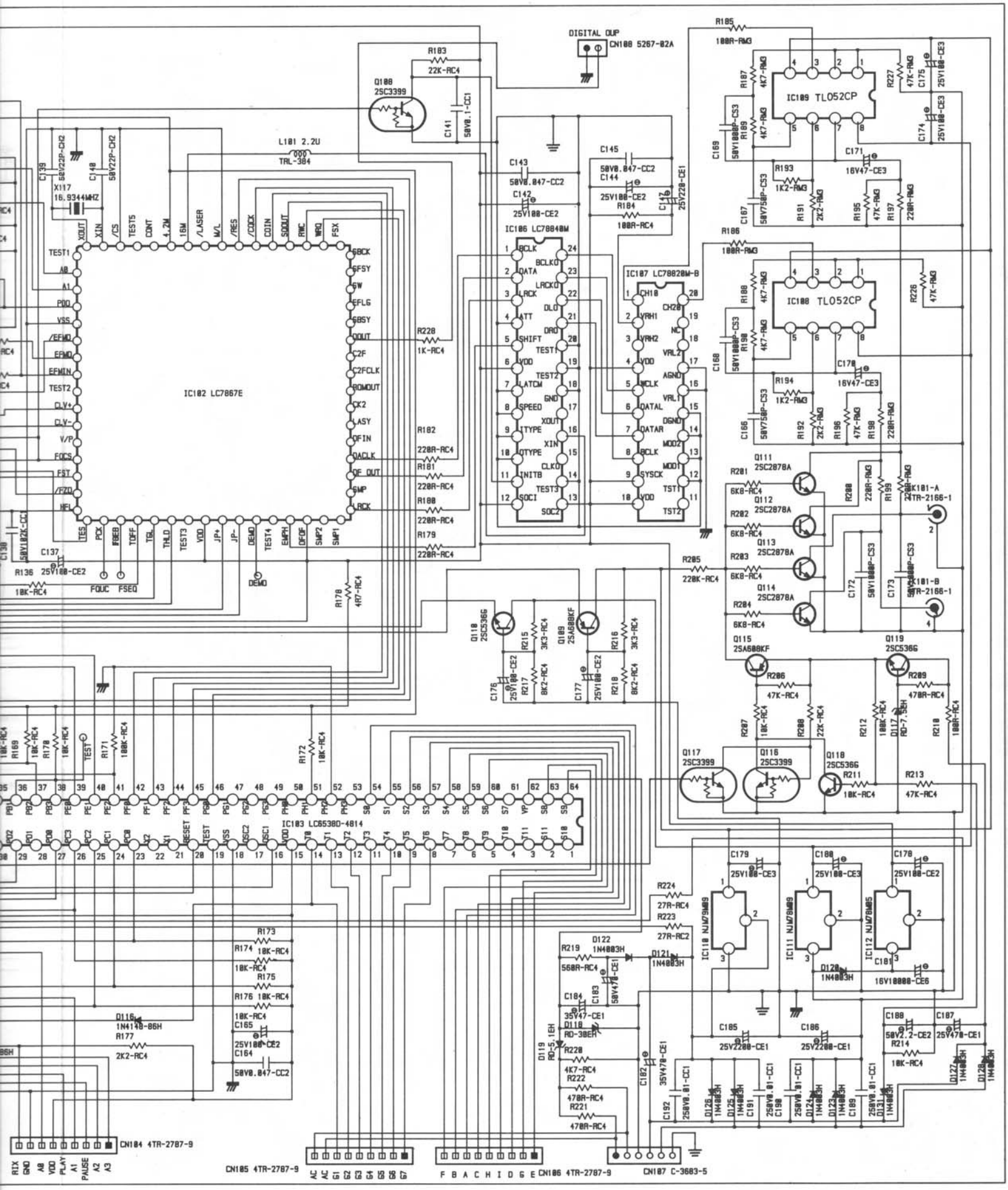



IC102
IC107
IC106
IC109
IC108
SLICE LEVEL CONTROL
VCO CLOCK OSCILLATION CLOCK CONTROL
SYSC.DETECT EFM DEMODULATION
CLV DIGITAL SERVO
SUB-CODE SEPARATION Q CRC
MICRO COMPUTER INTERFACE
SERVO COMANDER
2K X 8BIT RAM
RAM ADDRESS GENERATOR
MUTE
C1,C2 ERROR DETECTION AVD FLAG PLOCESSING
DIGITAL OUT
XTAL TIMING GENERATOR
DAC OUTPUT INTERFACE
CRYSTAL 16.934MHZ
TIMING CONTROL
SIPO REGISTER1
SIPO REGISTER2
PWM DAC
R-STRING DAC
LEVEL SHIFT DAC
CH1 LATCH
ATTENNUATOR
ALU
RAM1
RAM2
RAM3
COEFFICIENT
S → P
TIMING GENERATOR
OUTPUT FORMAT GENERETOR
BUFFER AMP
ACTIVE FILTER
MUTING
LEFT OUTPUT
RIGHT
DIGITAL

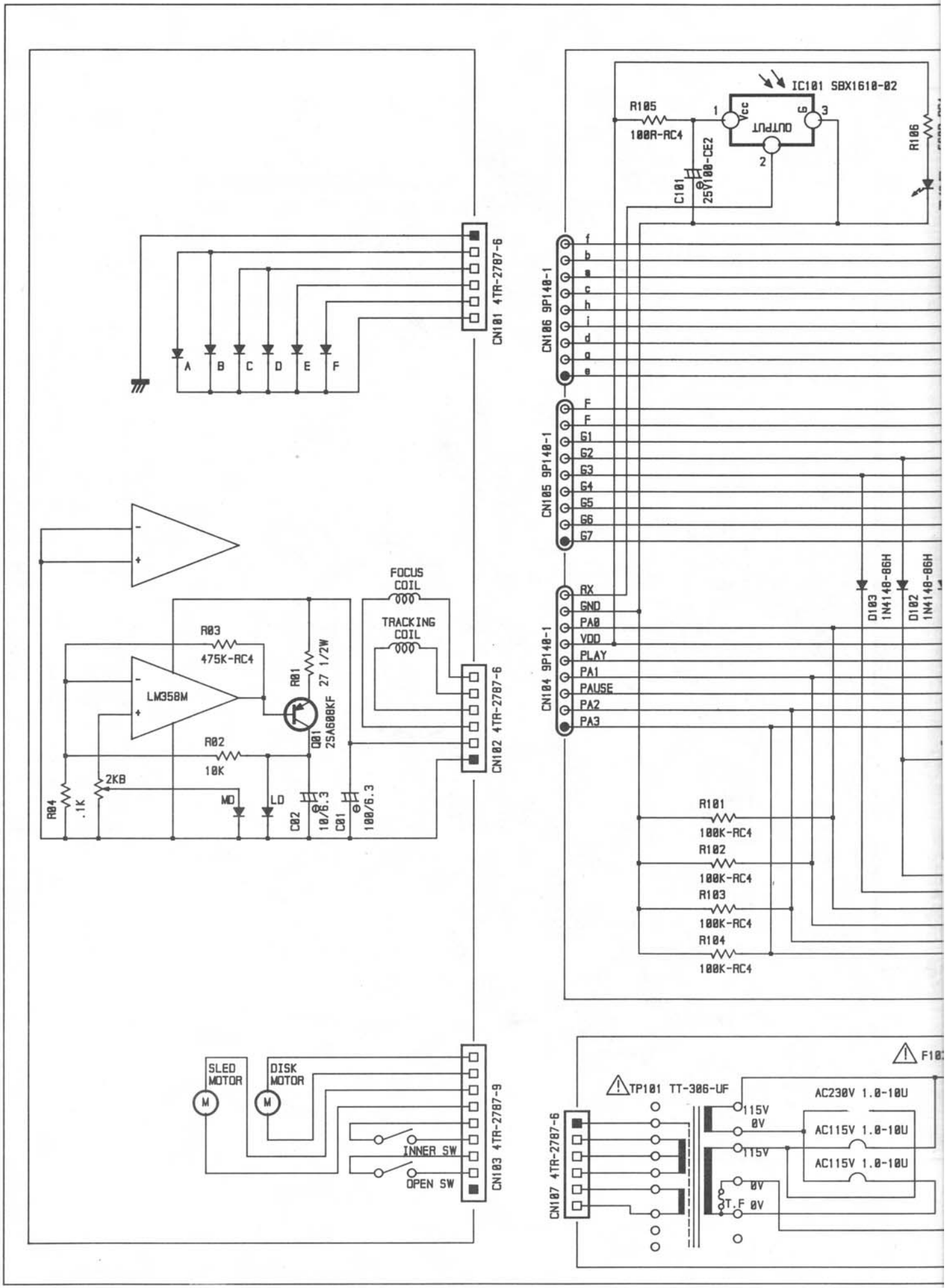
Schematic Diagram

SCHEMATIC DIAGRAM MODEL NO. RCD-940BX (1/2)

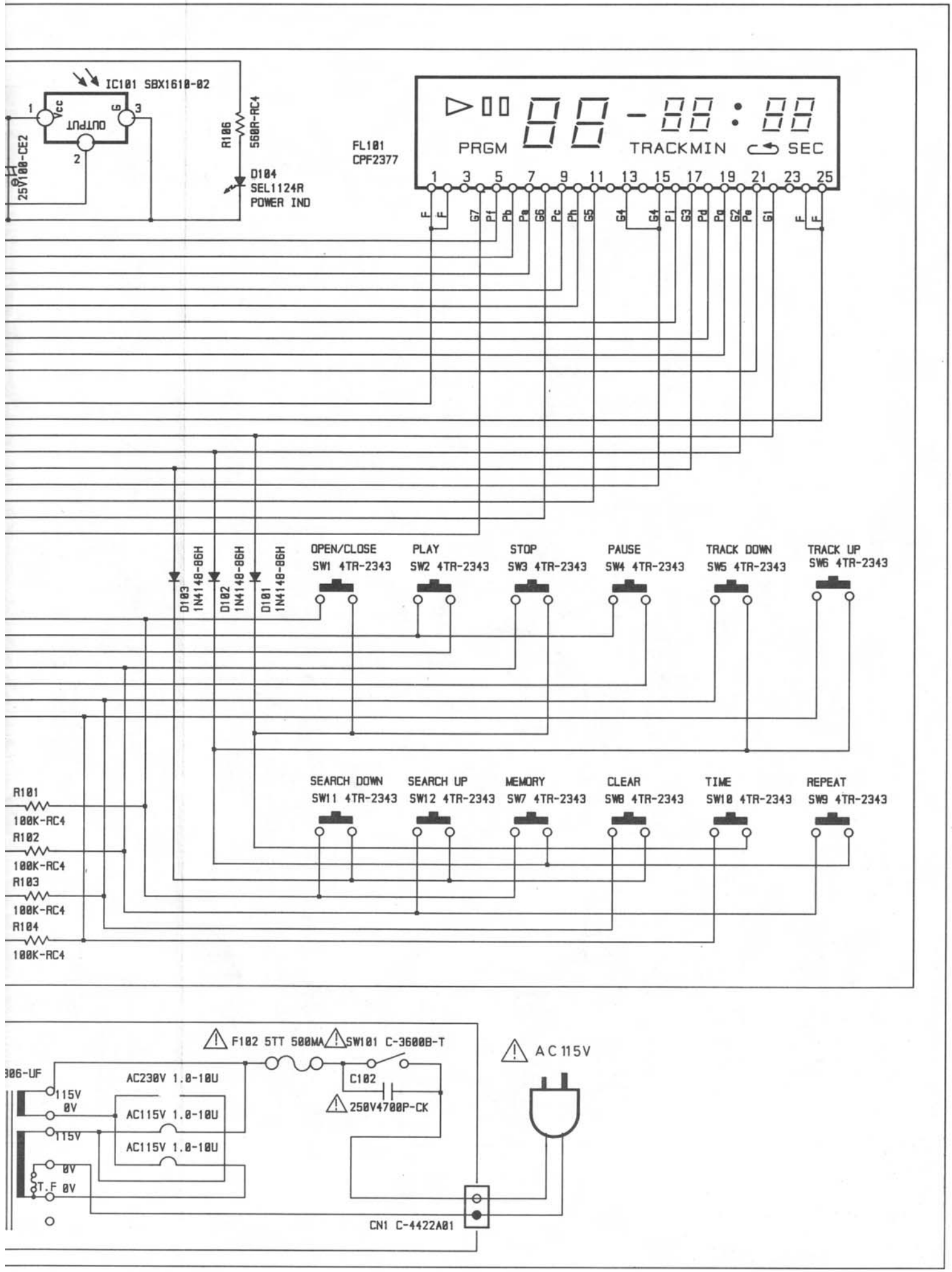



DIGITAL OUP
CN188 5267-02A
IC102 LC7867E
IC103 LC6538D-4814
IC106 LC78840M
IC107 LC78820M-B
IC109 TL052CP
IC108 TL052CP
CN184 4TR-2787-9
CN185 4TR-2787-9
CN186 4TR-2787-9
CN187 C-3683-5

SCHEMATIC DIAGRAM MODEL NO. RCD-940BX (2/2)

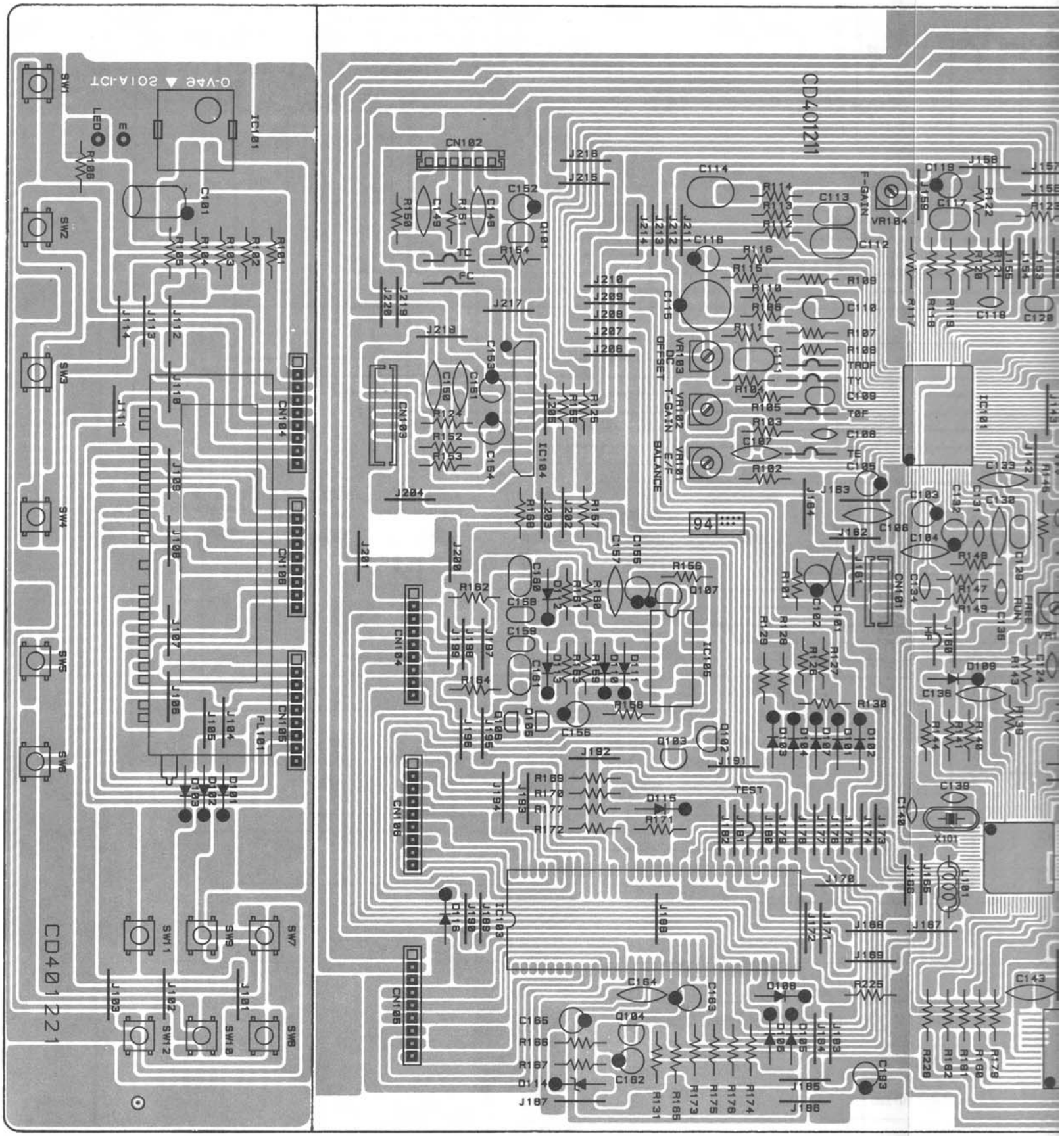


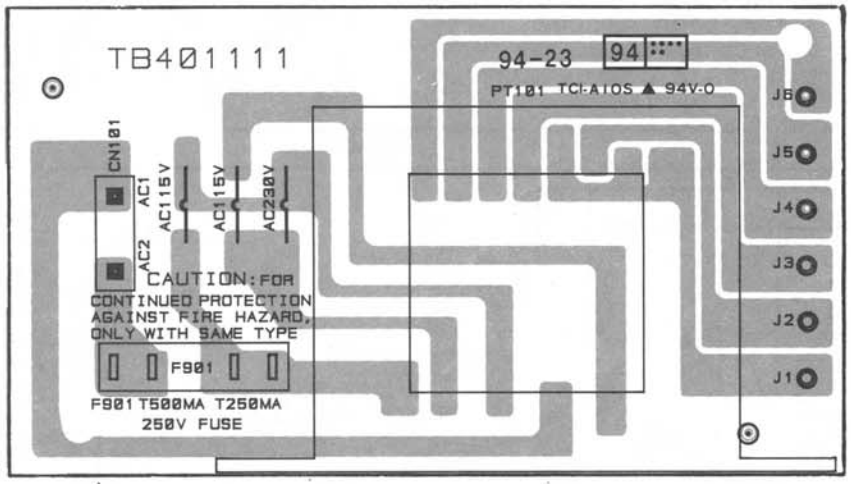
/2)

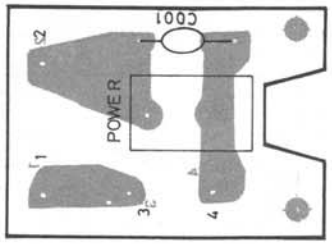

IC101 SBX1618-02
Vcc
OUTPUT
25V100-CE2
R106
560R-RC4
D104
SEL1124R
POWER IND
FL101
CPF2377
PRGM
TRACKMIN
SEC
D103 1N4148-86H
D102 1N4148-86H
D101 1N4148-86H
OPEN/CLOSE SW1 4TR-2343
PLAY SW2 4TR-2343
STOP SW3 4TR-2343
PAUSE SW4 4TR-2343
TRACK DOWN SW5 4TR-2343
TRACK UP SW6 4TR-2343
SEARCH DOWN SW11 4TR-2343
SEARCH UP SW12 4TR-2343
MEMORY SW7 4TR-2343
CLEAR SW8 4TR-2343
TIME SW10 4TR-2343
REPEAT SW9 4TR-2343
R101 100K-RC4
R102 100K-RC4
R103 100K-RC4
R104 100K-RC4

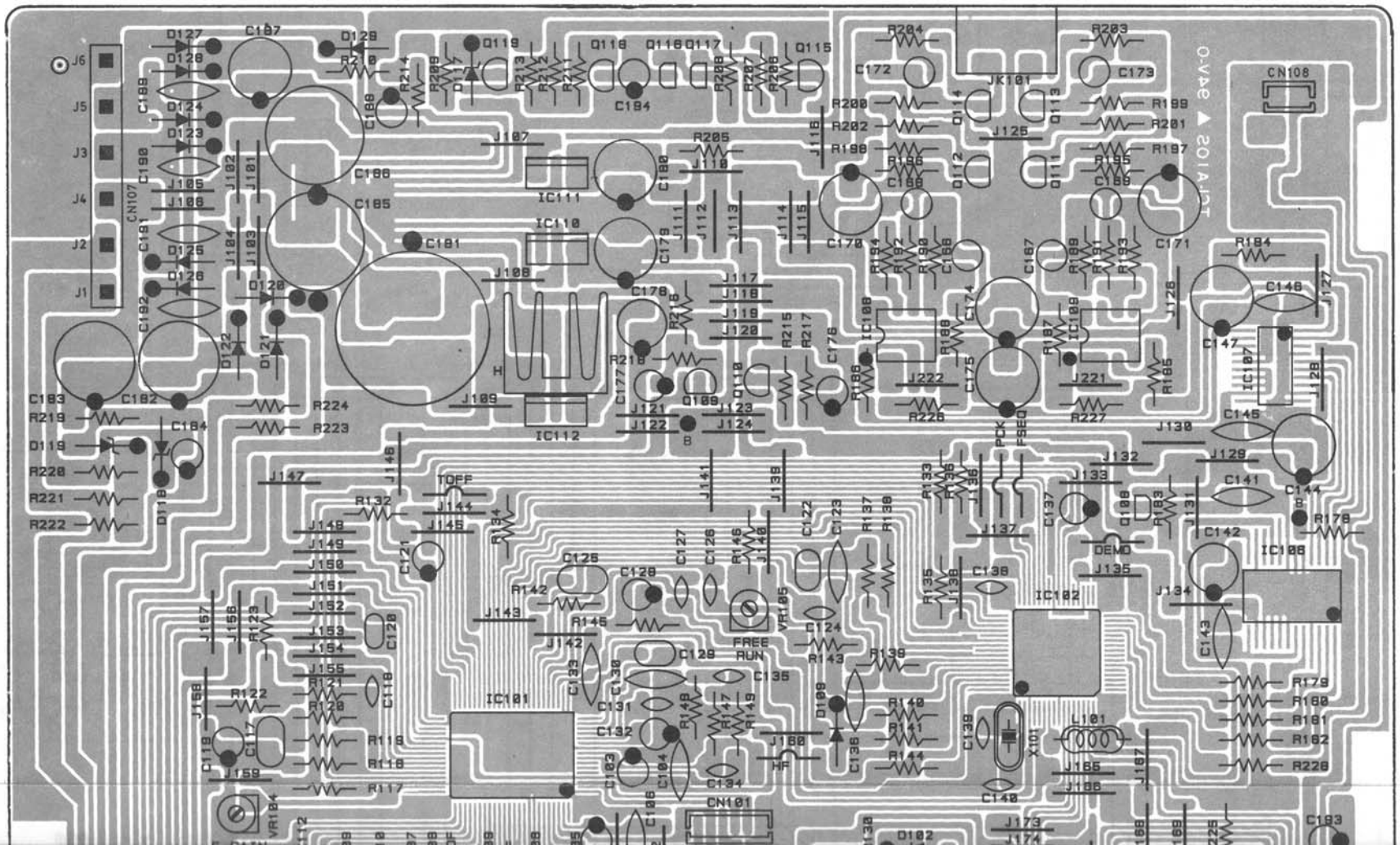
F102 5TT 500MA
SW101 C-3600B-T
AC 115V
C102
250V4700P-CK
AC230V 1.0-10U
AC115V 1.0-10U
AC115V 1.0-10U
115V
0V
T.F 0V
CN1 C-4422A01

Printed Circuit Boards




TB401111
94-23
94
PT101 TC-A10S ▲ 94V-0
CN101
AC1
AC2
AC115V
AC115V
AC230V
CAUTION: FOR
CONTINUED PROTECTION
AGAINST FIRE HAZARD,
ONLY WITH SAME TYPE
F901
F901 T500MA T250MA
250V FUSE
J6
J5
J4
J3
J2
J1


C001
POWER


TC-A10S ▲ 94V-0
IC101
IC102
IC107
IC108
IC110
IC111
IC112
CN101
CN107
CN108
JK101
L101
X101
VR104
VR105
FREE RUN
DEMO
PCK
FSEQ
TOFF
H
B
HF