

SERVICE MANUAL

MODEL VC-606

STEREO CASSETTE RECORDER
WITH PLAYER MW/FM/FM MPX Z-BAND RADIO
STEREO MUSIC CENTER W/CD PLAYER

Specifications	
Power Source	220V/50Hz
Speaker	8 ohm
Dimensions	W370mm x H280mm x D350mm
Weight	7 kgs (without speaker)
Tuner Section	
Frequency Range	AM: 540 – 1600kHz, FM: 88–108MHz,
Intermediate Frequency	AM: 465 kHz FM: 10.7 MHz
Sensitivity	AM: 800 μ V FM: 20 μ V
Multiplex Separation	20dB (AT 1kHz)
Tape Speed	1 $\frac{7}{8}$ IPS (4.75cm P.S.)
Frequency Response	125 – 8 kHz
Wow & Flutter	0.35% WRMS
CD SECTION	
Frequency Range	20 Hz – 20 kHz
DISTORTION	< 1%
DYNAMIC RANGE	> 90 dB
S/N	> 70 dB (AT 1kHz)

INSTRUMENT REQUIRED

1. Output Meter (VTVM)
2. If Sweep Generator (AM/FM)
3. Standard Signal Generator (AM/FM STEREO)
4. Audio Frequency Generator
5. Distortion Meter
6. Oscilloscope

GENERAL

1. Signal input must be as low as possible to avoid overload and clipping. (Use highest sensitivity of output indicator,
2. Volume control at maximum, Balance and Tone controls at mechanical center.
3. MW standard modulation is 1,000kHz at 30% amplitude modulation.
4. LW standard modulation is 215kHz at 30% amplitude modulation.
5. FM standard modulation is 98MHz at 25% frequency modulation.
6. Connect 8 ohms (4 ohms) load across speaker jack.

AM SECTION

Control Setting
Tape AM/FM Stereo Selector Switch MW Volume Max.

Circuit Alignment	Instrument Connection	Step	Gen Freq.	Dial Setting	Adjustment
IF	AM SIGNAL GENERATOR Radiated Signal OUTPUT METER (VTVM) Connect Across speaker voice coil	1	470KHz. (Mod.)	Tuning gang fully closed	AM IFT T2, T4 Adjust for Max. Output
		2			Repeat Until no further improvement Can be made
OSCILLATOR	MW SIGNAL GENERATOR Radiated Signal OUTPUT METER (VTVM) Connect Across speaker voice coil.	3	510 KHz (Mod)	Tuning gang fully closed	T6 (MW OSC Coil) Adjust for max. Output
		4	1650 KHz (Mod.)	Tuning gang fully open	MW OSC Trimmer TC1 Adjust for max. Output
		5	-	-	Repeat steps 3 & 4
RF TRACKING	MW SIGNAL GENERATOR Radiated Signal OUTPUT METER (VTVM) Connect Across speaker voice coil.	6	600 KHz (Mod.)	Tune to Signal	L4 (MW Ant. Coil) Adjust Coil on ferrite core for max. Output
		7	1400 KHz (Mod)	Tune to Signal	MW Antenna. Trimmer TC8 Adjust for max. Output
		8	-	-	Repeat steps 6 & 7

FM SECTION

Control Setting
Tape - AM FM stereo Selector Switch FM Volume Max.

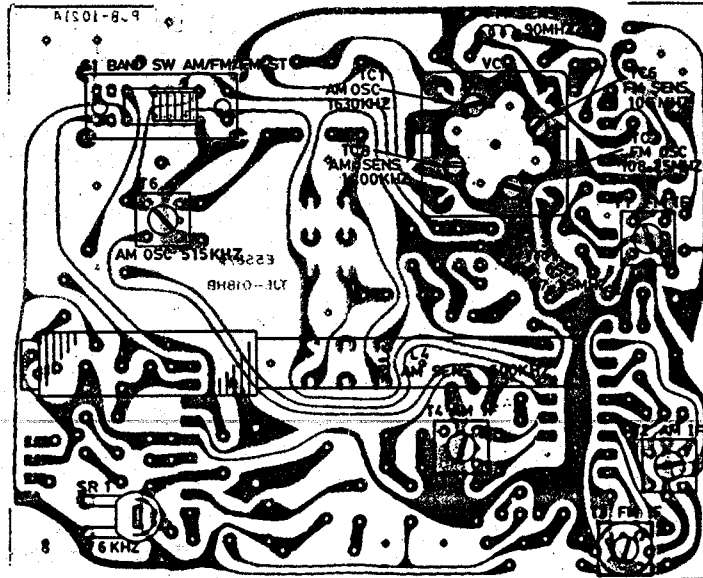
Circuit Alignment	Instrument Connection	Step	Gen Freq.	Dial Setting	Adjustment
IF	FM IF SWEEP GENERATOR Connect across test point IC1 Pin 8 OSCILLOSCOPE Connect across IC2 Pin 9 and ground	1	10.7 MHz (Mod)	Tuning gang fully open	FM IF T T1, Adjust for max. symmet
		2	10.7 MHz (Mod)	Tuning gang fully open	FM IFT T3 Adjust for symmetrical S curve entered 10.7 MHz
OSCILLATOR	FM SIGNAL GENERATOR Connect L1 OUTPUT METER (VTVM) Connect across speaker Voice coil	3	87.35MHz (Mod)	Tuning gang fully closed	L3 (FM OSC Coil) Adjust for max. Output
		4	108.25MHz (Mod)	Tuning gang fully open	FM OSC trimmer TC7 Adjust for max. Output
		5	-	-	Repeat step 3 & 4
RF TRACKING	FM SIGNAL GENERATOR Connect L1. OUTPUT METER (VTVM) Connect across speaker Voice coil.	6	90 MHz (Mod)	Tune to signal	L2 (FM RF Coil) Adjust for max. Output
		7	106 MHz (Mod)	Tune to signal	FM RF trimmer TC8 Adjust for max. Output
		8	-	-	Repeat steps 6 & 7

FM MPX SECTION

CONDITION: FM Stereo Signal Generator
 75 Ohm unbalance Dummy Load, 98 MHz 1mV 60dB Input Alignment
 should be done by small signal up to 1mV.
 Control Setting:
 Tape-LW-MW-FM Stereo Selector Switch FM Stereo
 Volume Adjustment
 Tone Max. Position

ADJUSTMENT:	FM Stereo Signal Generator	Set Adjust
	98 MHz L = 45% Mod. R = 45% Mod. Pilot = 10% Mod.	SR1 (Semi Variable Resistor) Adjust until L.E.D is Light.

ADJUSTMENT LOCATION

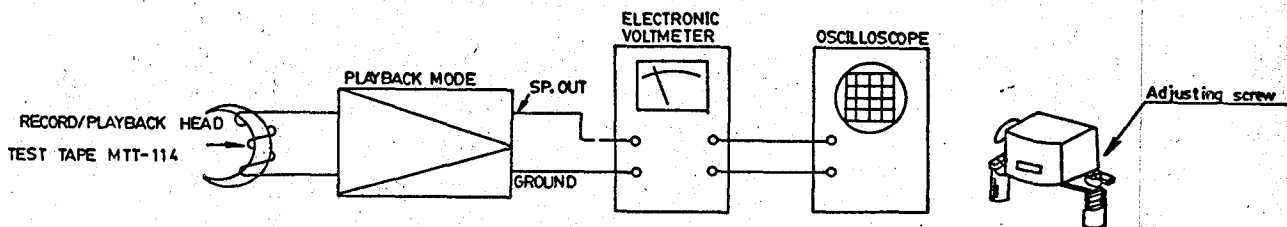


TORQUE CHECK AT PLAY FAST FORWARD AND REWIND MODES:

Put a torque meter cassette in the cassette compartment of the set, and see that the measured torque in each mode is normal as follows:

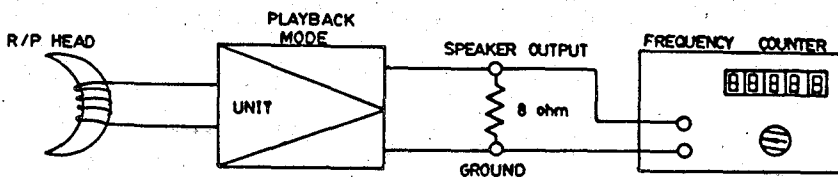
Mode	Torque meter cassette	Measured torque
Playback	TW-2111	35-70 gram-cm
Fast Forward	TW-2231	70-160 gram-cm
Rewind	TW-2231	70-160 gram-cm

RECORD/PLAYBACK HEAD AZIMUTH ADJUSTMENT:



1. Connect electronic voltmeter between the Speaker out.
2. Put a test tape (TEAC, MTT-114 10KHz 250pWb/mm -10dB recorder) into the unit and play it.
3. Adjust then the head azimuth adjusting screw so that the electronic voltmeter reads its maximum reading, with no phase difference between the channels.

TAPE SPEED ADJUSTMENT:



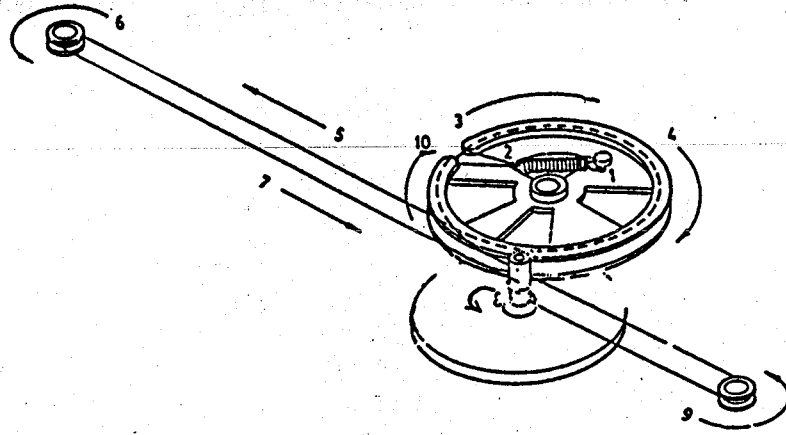
I. NORMAL SPEED ADJUSTMENT

1. Put standard tape (MTT-111 3KHz) into tape B deck, then push play button. (play it)
2. Adjust variable resistor SP301. let the frequency counter display 2940Hz to 3060Hz.

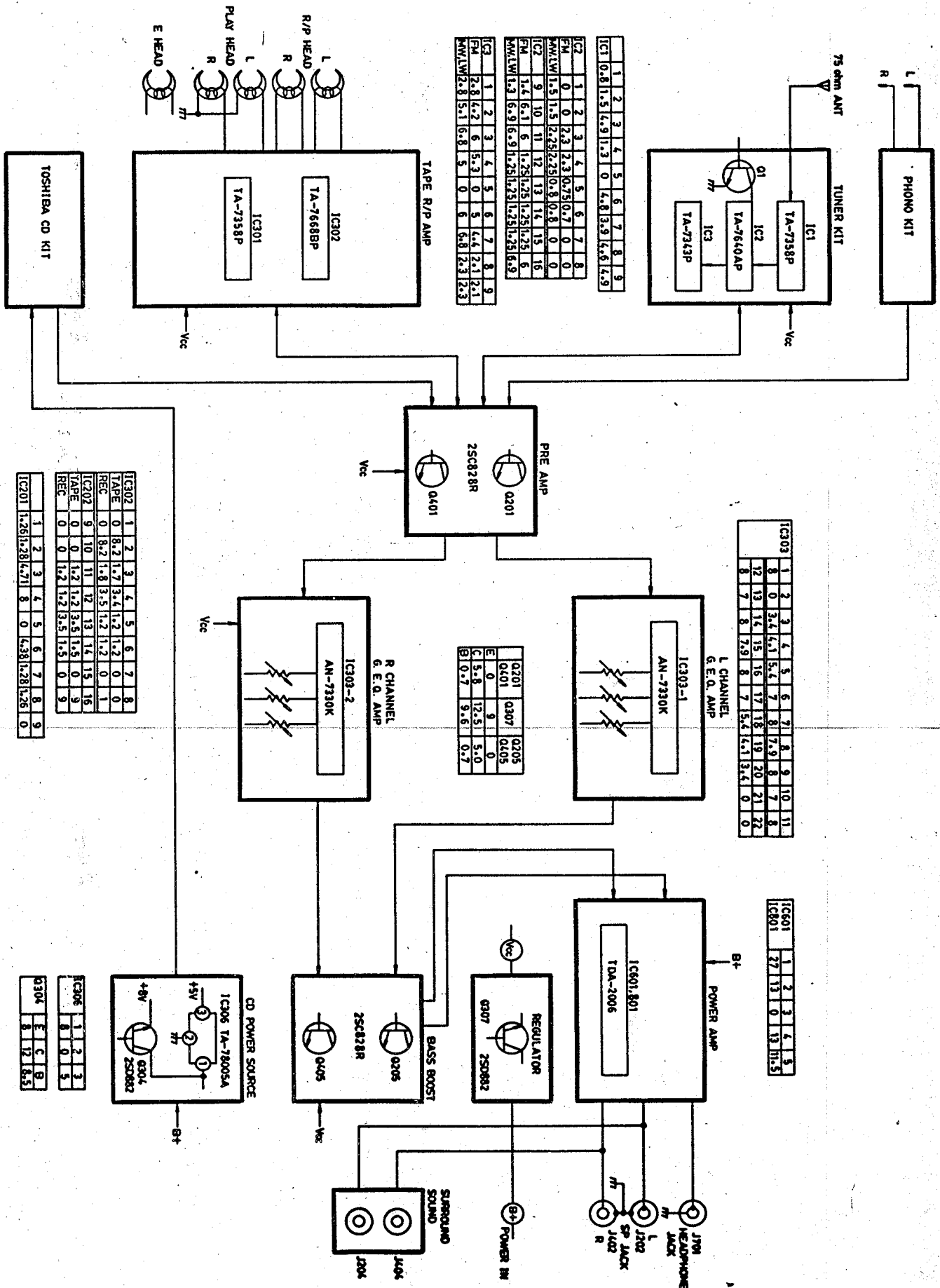
II HIGH SPEED ADJUSTMENT

1. Put standard tape (MTT-111 3KHz) into tape B deck, then play it.
2. Put the speed switch at high position, function switch at tape position, tape A deck at REC function.
3. Adjust variable resistor SP302. let the frequency counter display 4760Hz to 4860Hz.

DIAL CORD DIAGRAM



BLOCK DIAGRAM



1	2	3	4	5	6	7	8	9	
IC1	0.8	1.5	4.9	1.3	0	4.8	3.9	4.6	4.9

IC2	1	2	3	4	5	6	7	8
FM	0	0	2.3	2.3	0.75	0.7	0	0
AM/LW	1.5	1.5	2.25	2.25	0.8	0.8	0	0

IC2	9	10	11	12	13	14	15	16
FM	1.4	6.1	6	1.25	1.25	1.25	1.25	6
AM/LW	1.3	6.9	6.9	1.25	1.25	1.25	1.25	6.9

IC3	1	2	3	4	5	6	7	8	9
FM	2.8	4.7	6	5.3	0	5	4.4	2.1	2.1
AM/LW	2.8	5.1	6.6	6	5	0	6.0	2.3	2.3

IC303	1	2	3	4	5	6	7	8	9	10	11
8	0	3.4	4.1	5.4	7	8	7.9	8	7	8	8
12	13	14	15	16	17	18	19	20	21	22	0
8	7	8	7.9	8	7	5.4	4.1	3.4	0	0	0

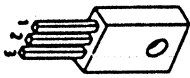
Q201	Q207	Q205	
0	9	0	
C	5.8	12.5	5.0
B	0.7	9.6	0.7

IC601	1	2	3	4	5
IC601	27	13	0	13	11.5

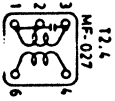
IC302	1	2	3	4	5	6	7	8
TAPE	0	8.2	1.7	3.4	1.2	1.2	0	0
REC	0	8.2	1.8	3.5	1.2	1.2	0	1
IC202	9	10	11	12	13	14	15	16
TAPE	0	0	1.2	1.2	3.5	1.5	0	9
REC	0	0	1.2	1.2	3.5	1.5	0	9

IC306	1	2	3
IC306	8	0	3
Q304	8	12	8.5

IC/IFT/TRANSISTOR CONNECTIONS



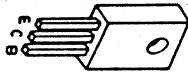
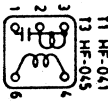
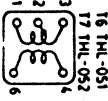
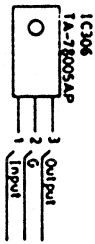
IC306
TA-78005AP



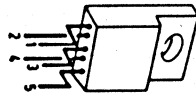
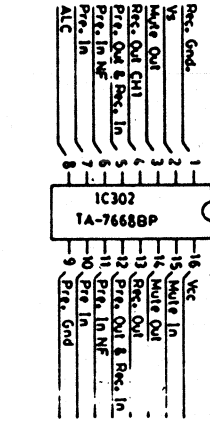
MF-027
12,4



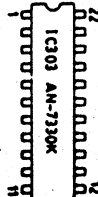
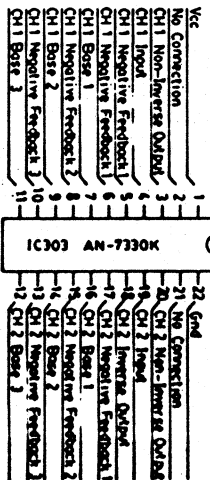
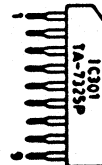
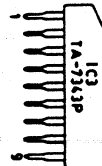
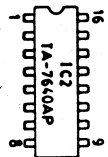
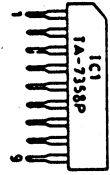
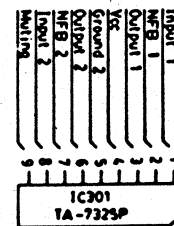
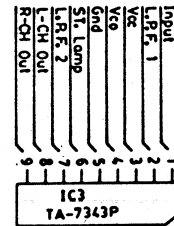
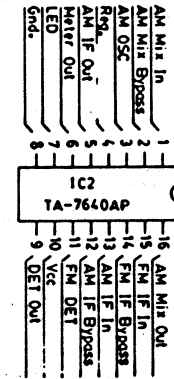
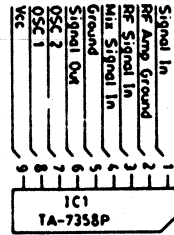
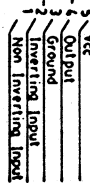
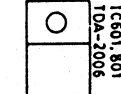
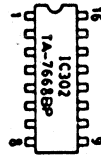
25C828R 0203,403,201,401,204,404,1
25C1317R 0301
25A279R 0308



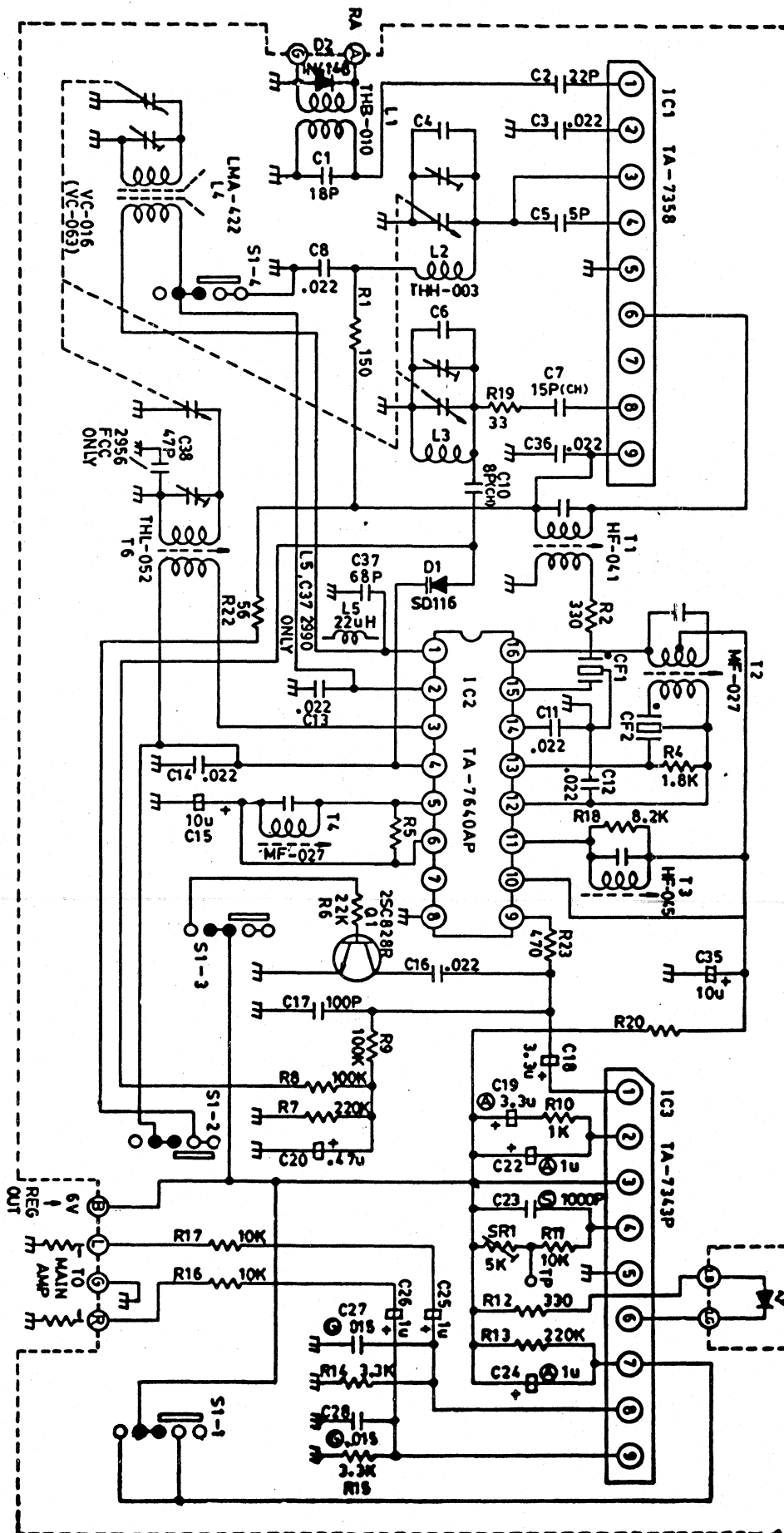
2508870 0304,307




IC601 801
TDA-2006

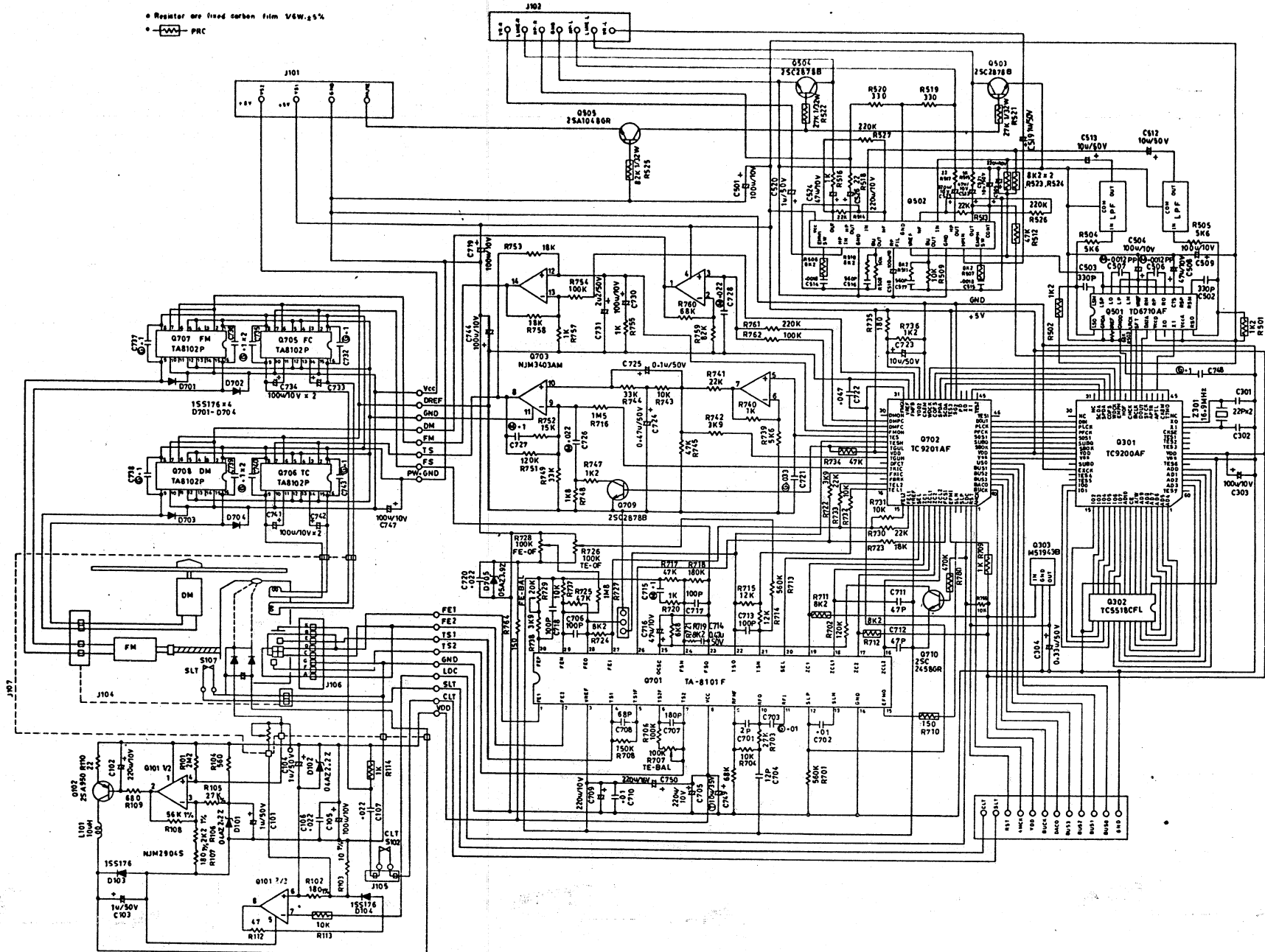


SCHEMATIC DIAGRAM (TUNER)

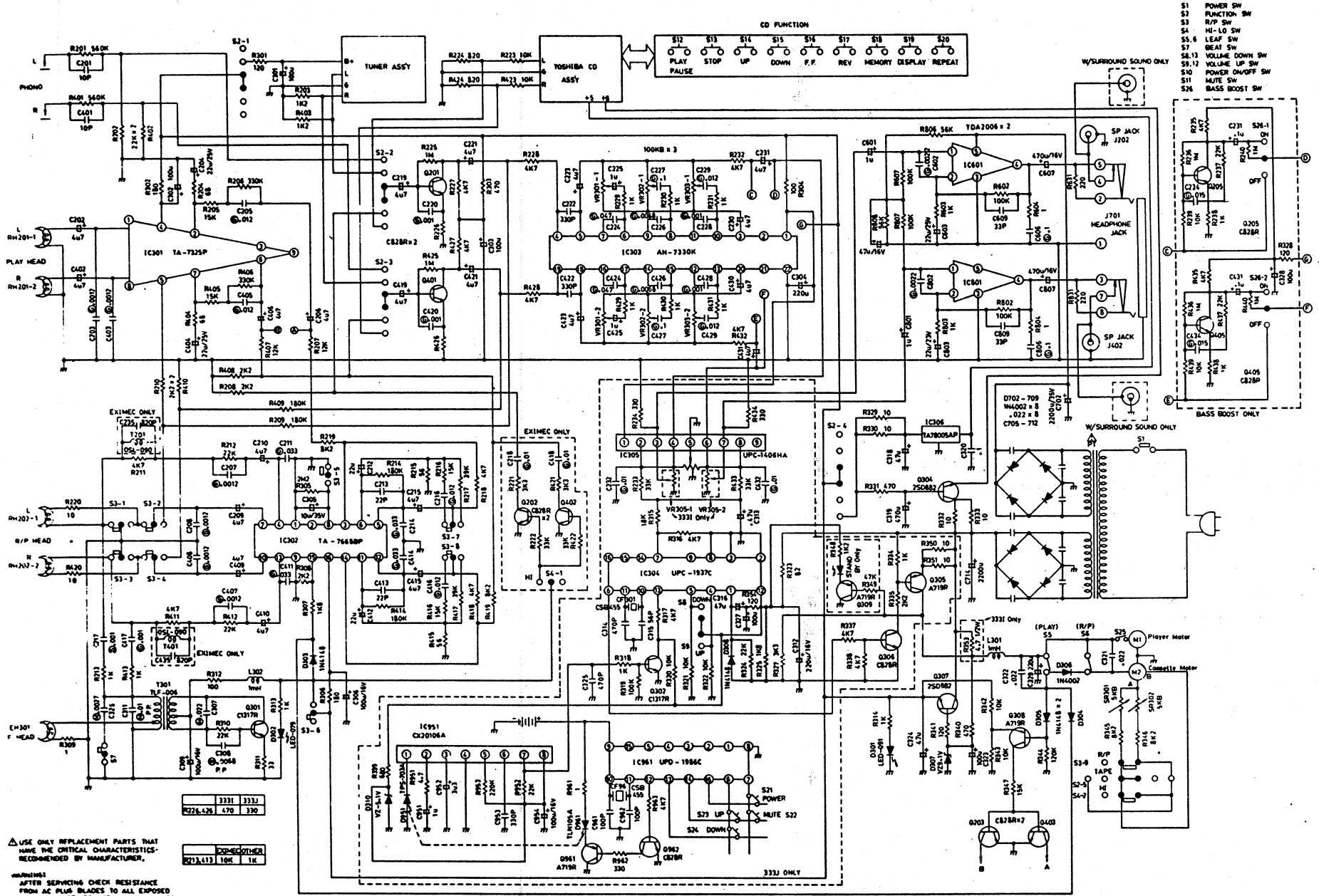


SCHMATIC DIAGRAM (CD)

- Resistor are fixed carbon film 1/4W, 5%
-  PRC

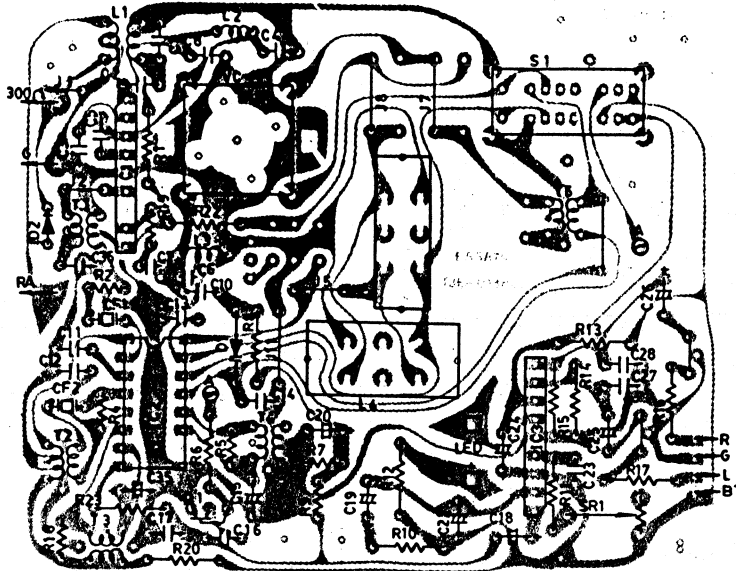


SCHEMATIC DIAGRAM

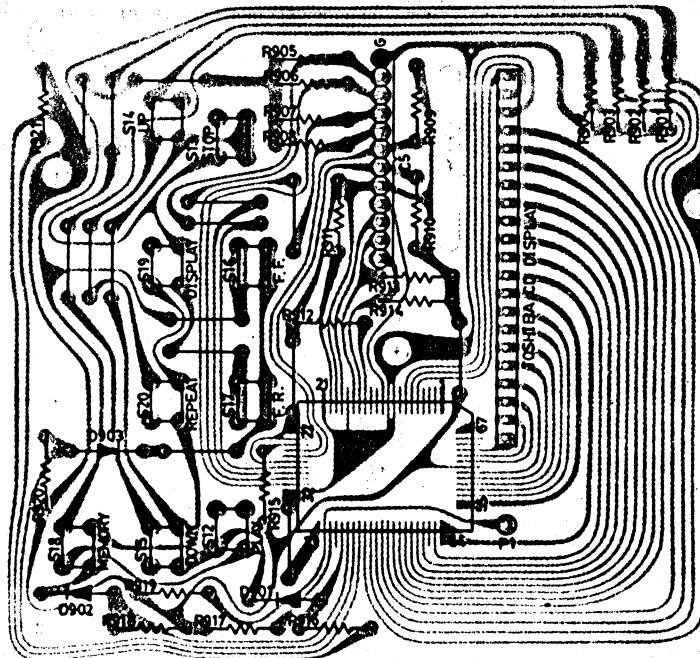


P. C. BOARD DIAGRAM

TUNER PCB - 1021

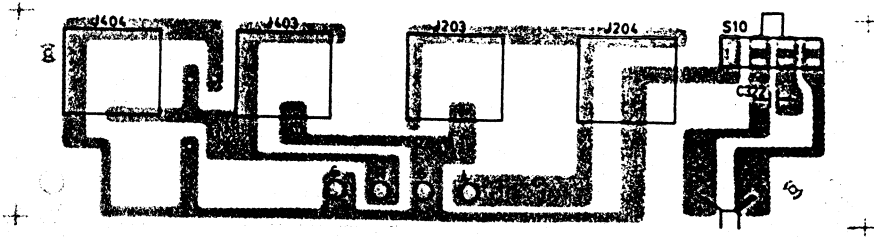


CD CONTROL PCB-1535

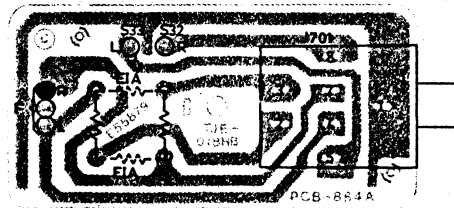


P. C. BOARD DIAGRAM

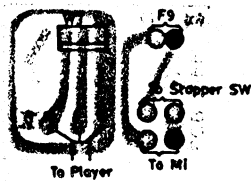
SPEAKER JACK PCB - 1583



HEADPHONE JACK PCB - 884

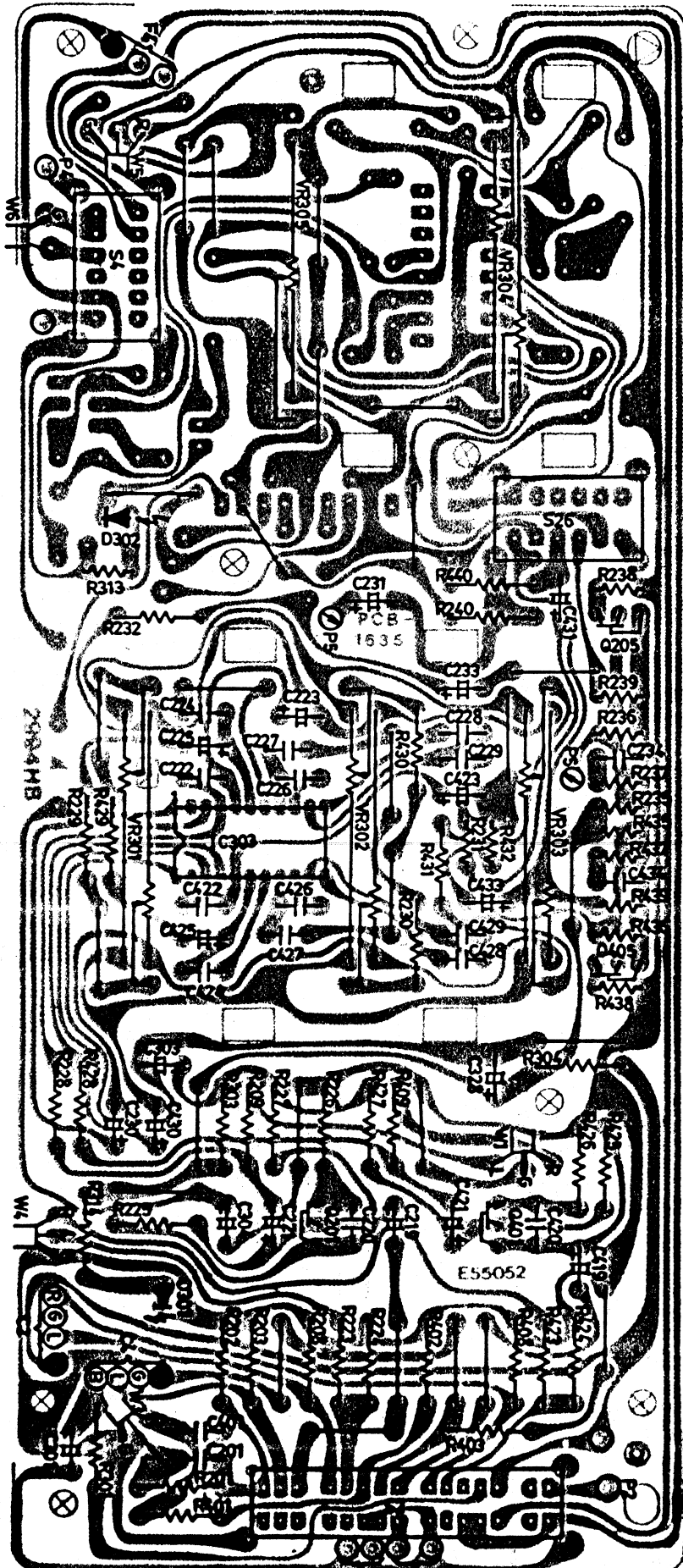


PLAYER PCB-1555



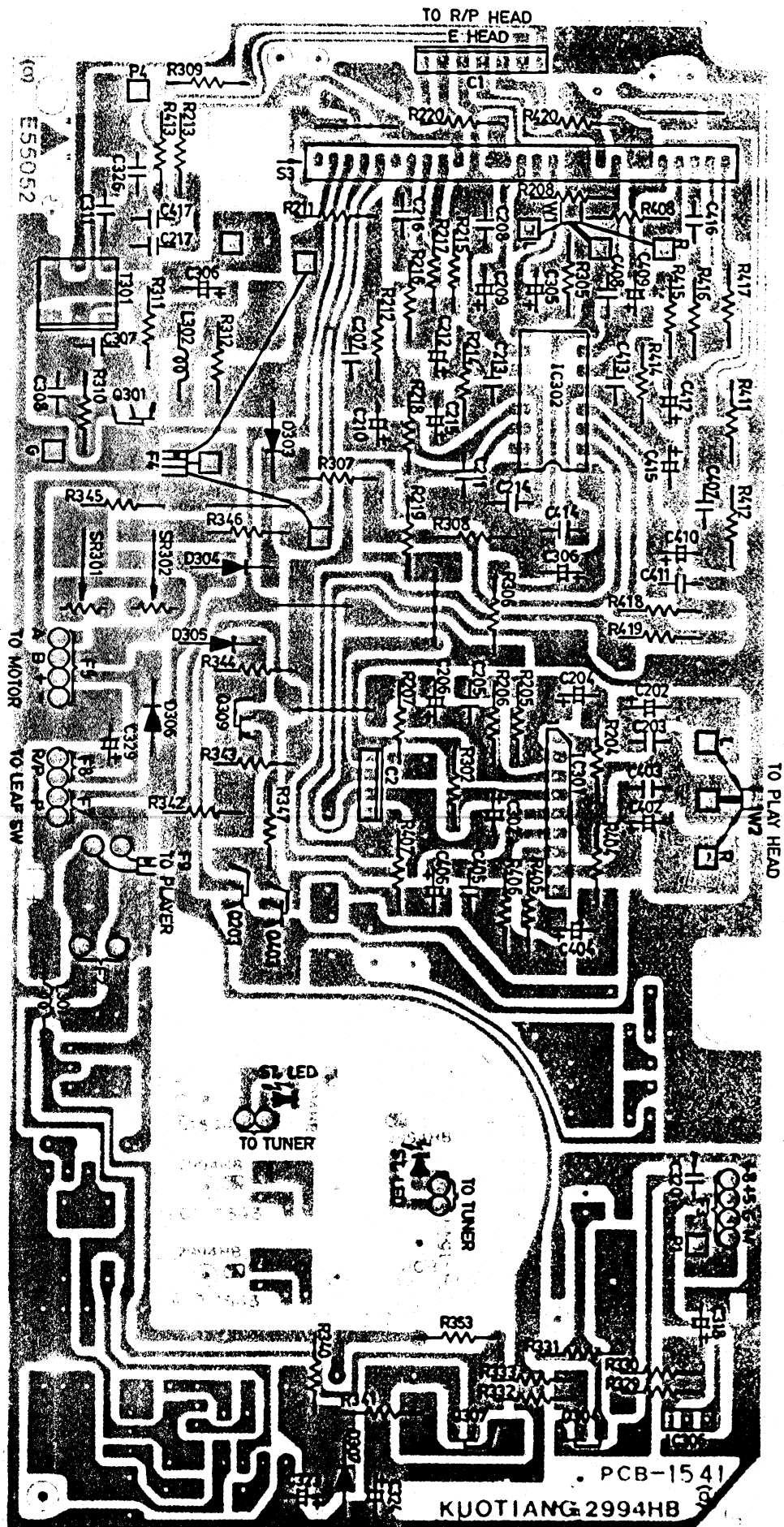
P. C. BOARD PARTS LOCATION

FUNCTION PCB-1635



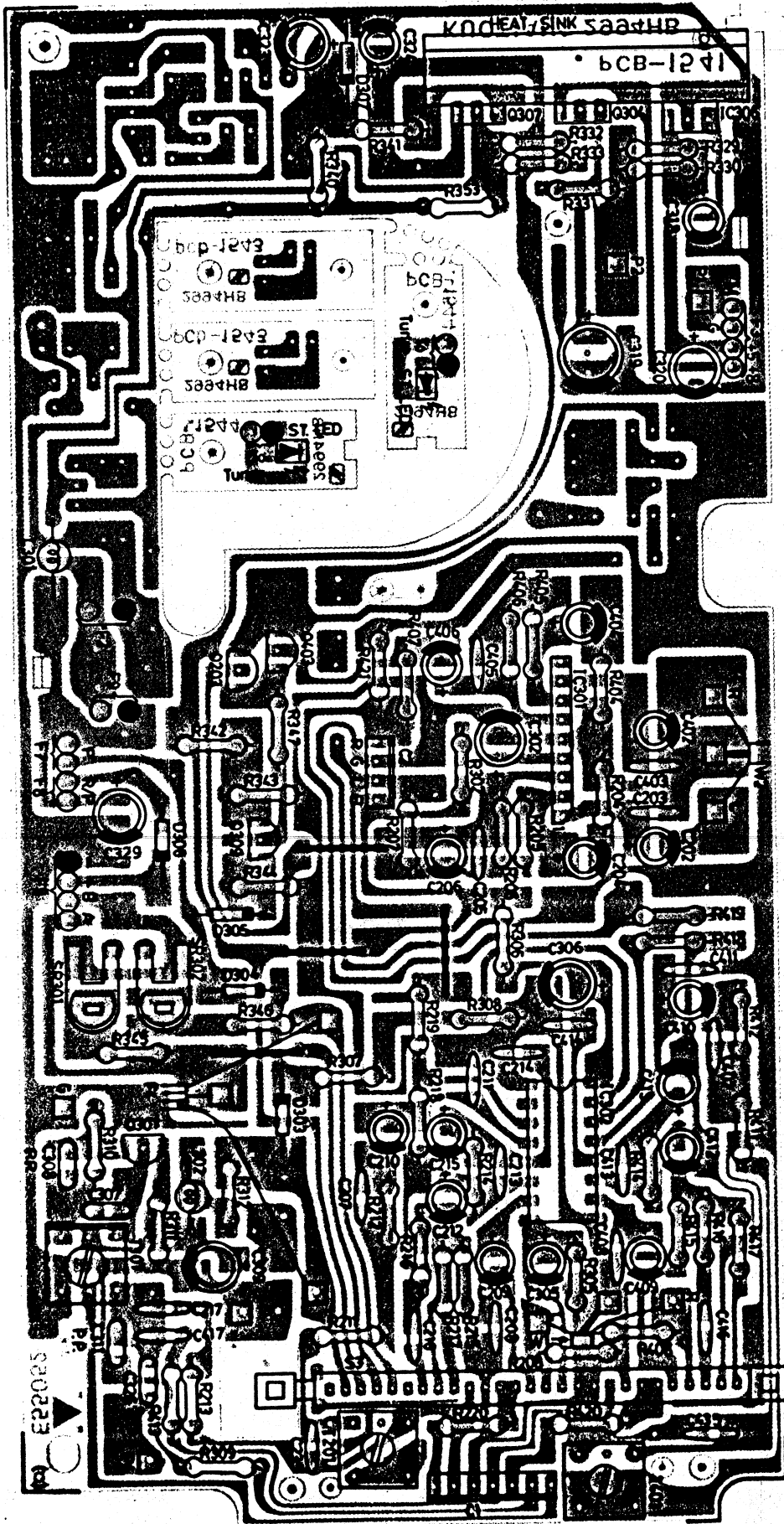
P. C. BOARD DIAGRAM

R/P AMP PCB - 1541, 1543, 1544



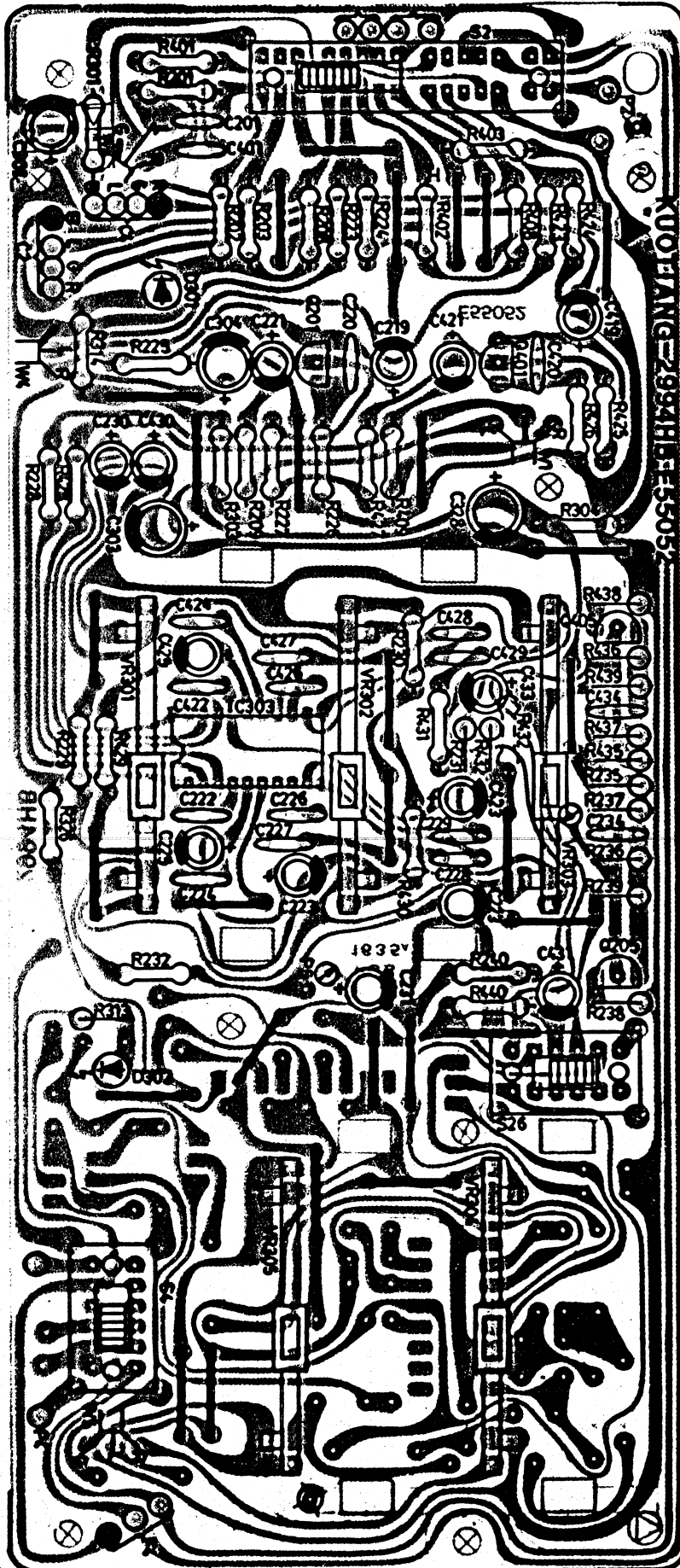
P. C. BOARD PARTS LOCATIONS

R/P AMP PCB-1541, 1543, 1544



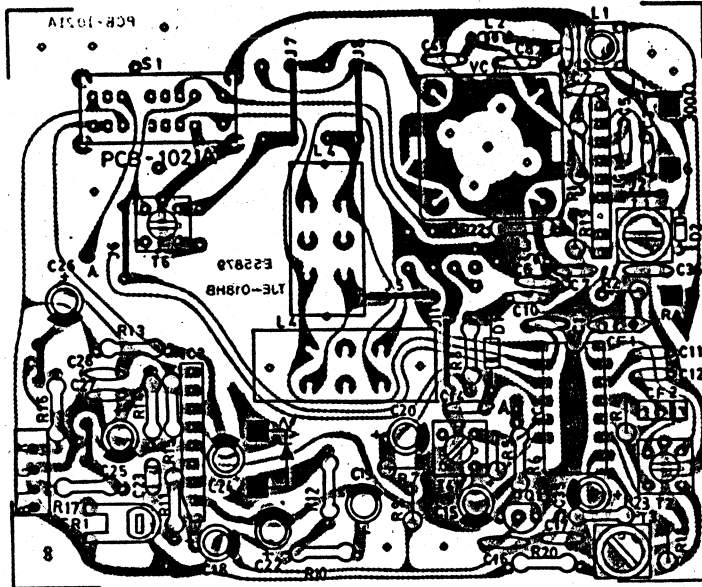
P. C. BOARD DIAGRAM

FUNCTION PCB - 1635

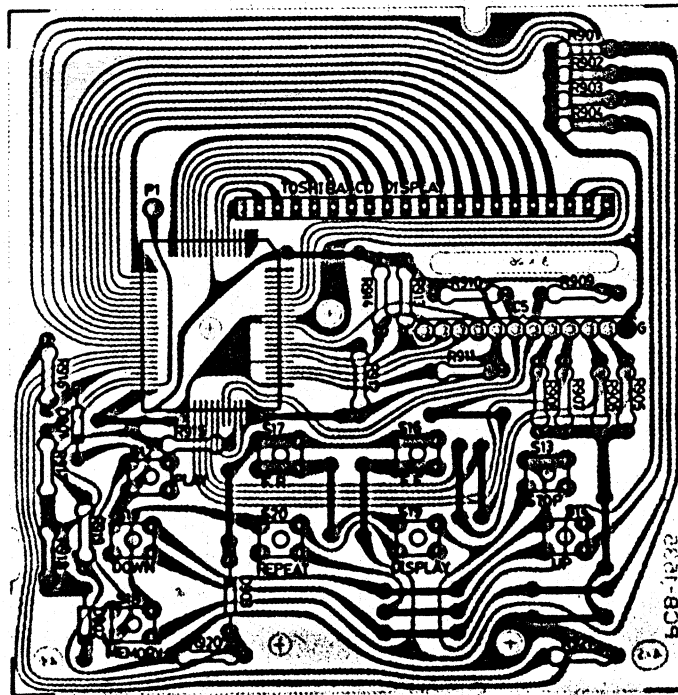


P. C. BOARD PARTS LOCATION

TUNER PCB - 1021

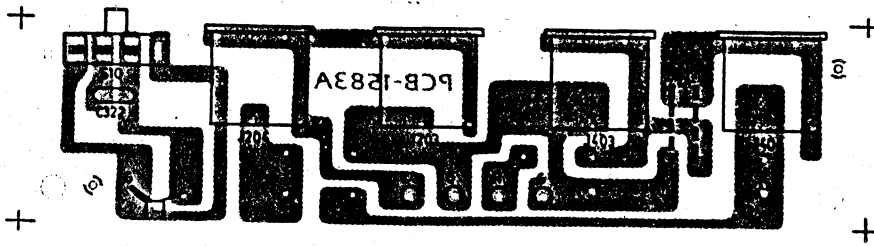


CD CONTROL PCB - 1535

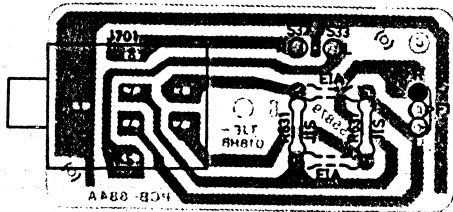


P. C. BOARD PARTS LOCATION

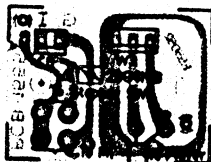
SPEAKER JACK PCB-1583



HEADPHONE JACK PCB - 884

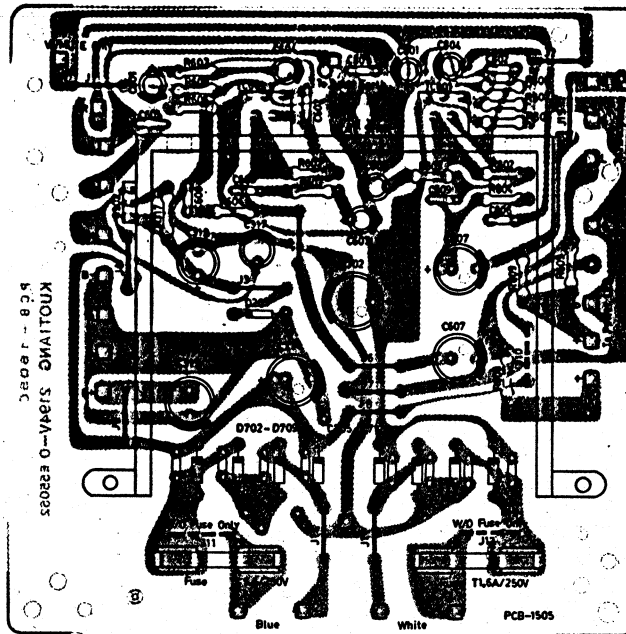


PLAYER PCB - 1555



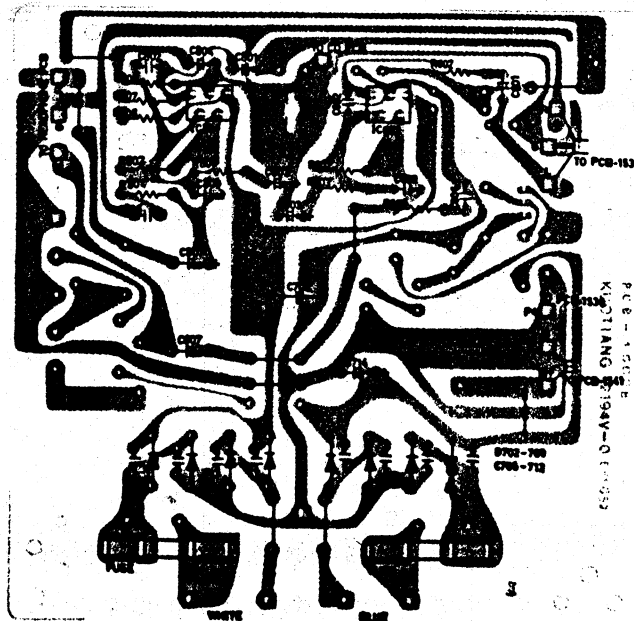
P.C. BOARD PARTS LOCATION

POWER AMP PCB-1505



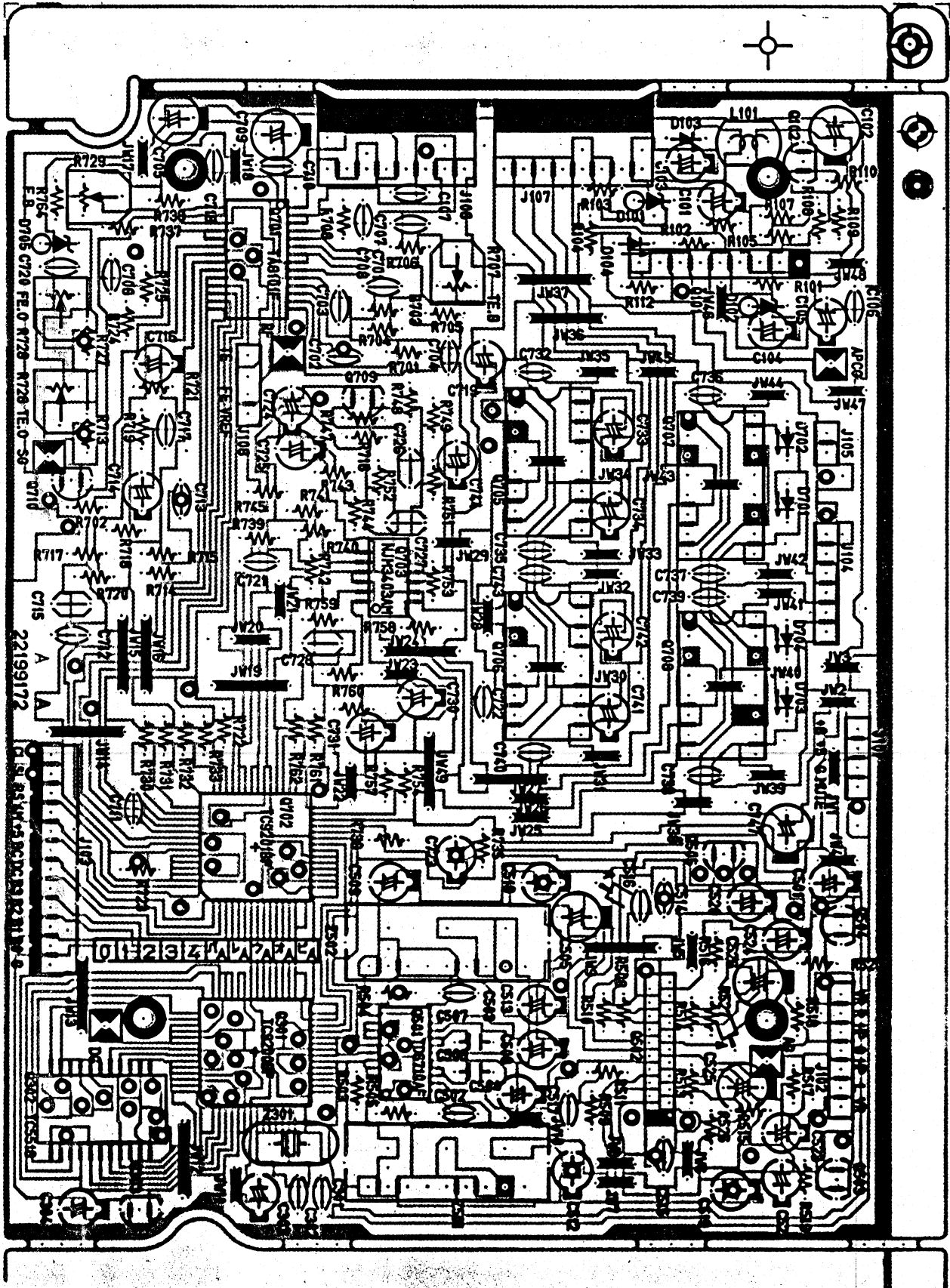
P.C. BOARD DIAGRAM

POWER AMP PCB-1505



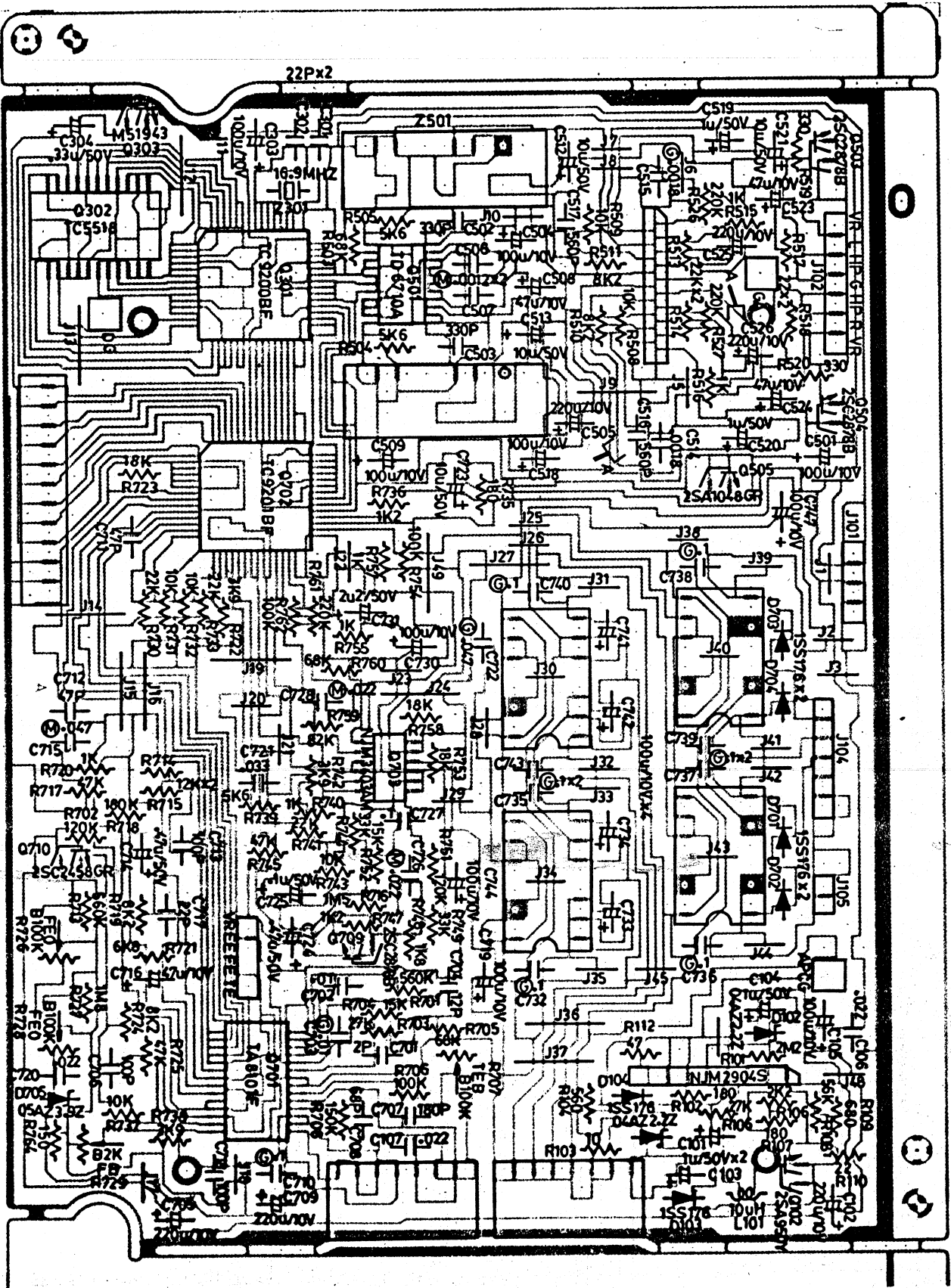
P.C. BOARD PARTS LOCATION

CD MAIN PCB

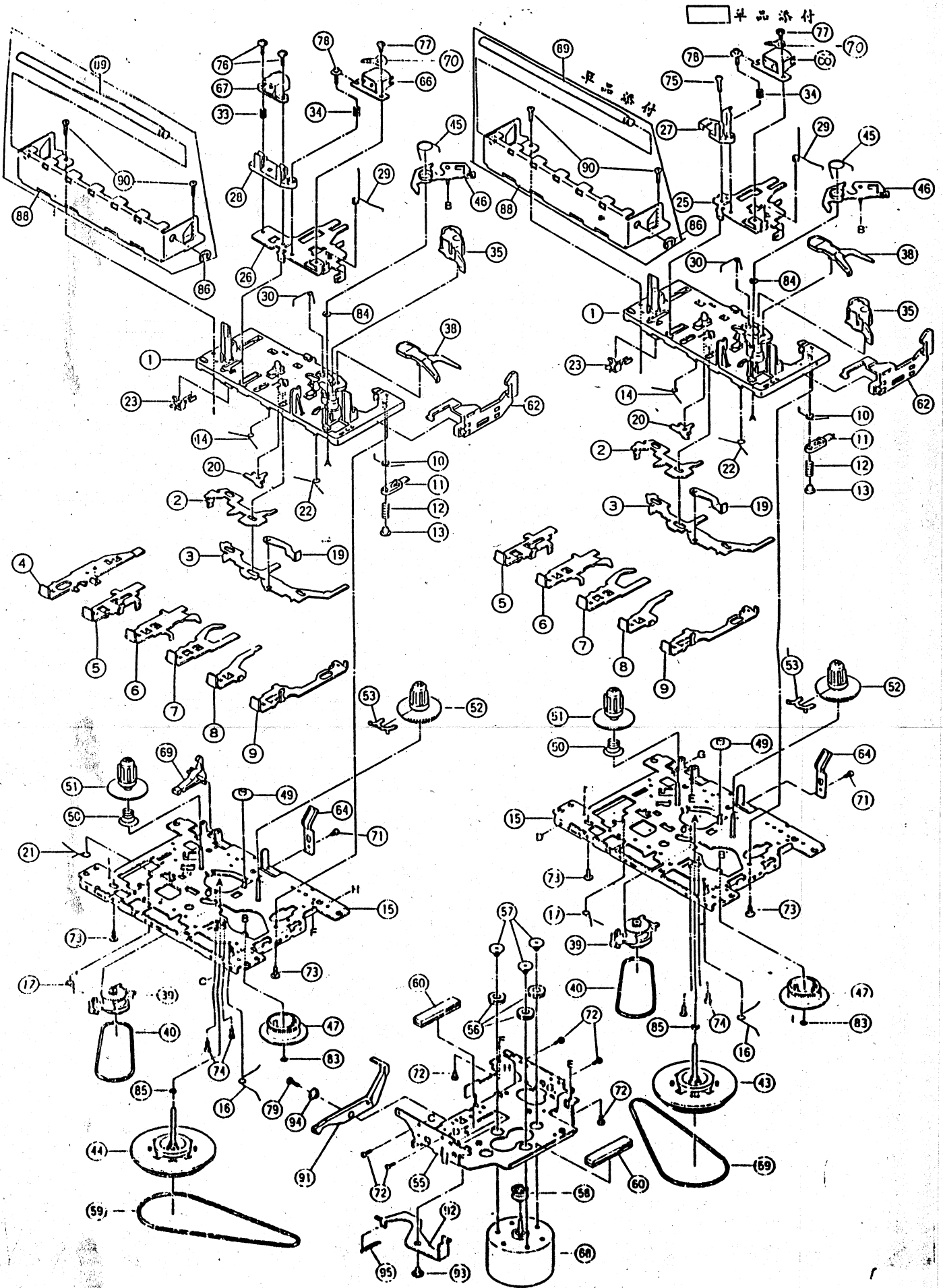


P. C. BOARD DIAGRAM

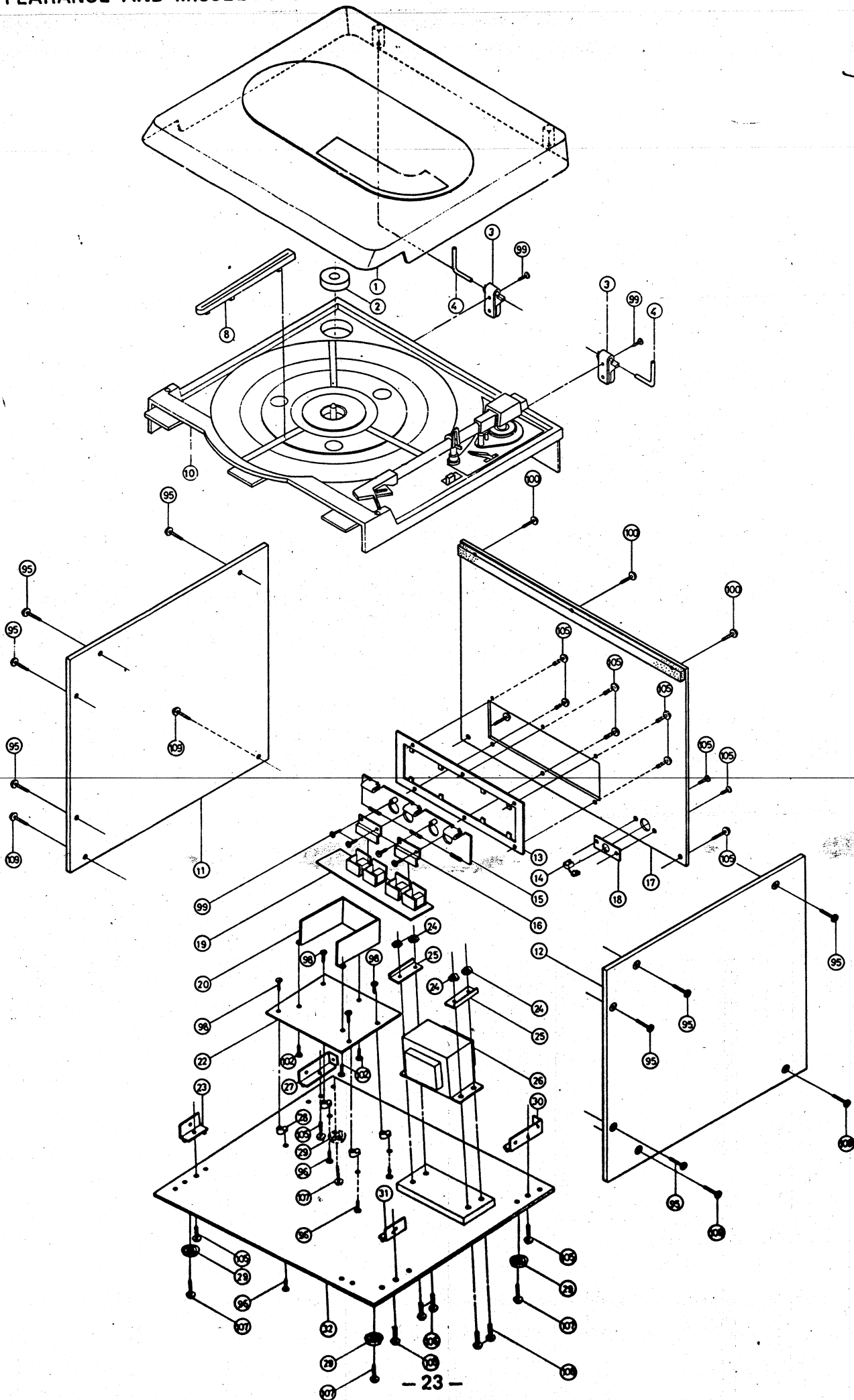
CD MAIN PCB



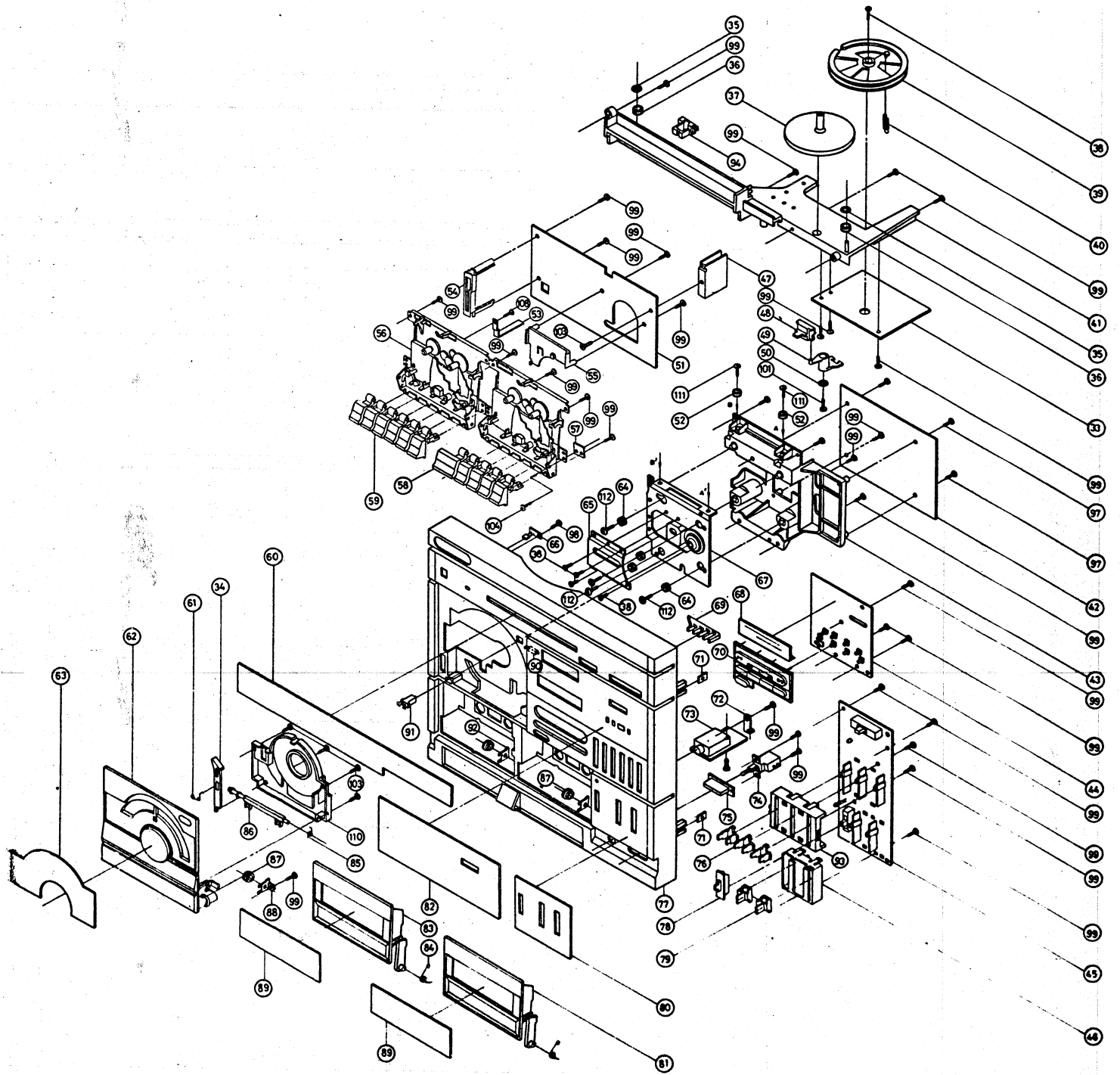
TN21ZFW-222 COMPOSITION OF MECHANISM



APPEARANCE AND MISCELLANEOUS PARTS LOCATION



APPEARANCE AND MISCELLANEOUS PARTS LOCATION



3331A (VC-606) ELECTRICAL PARTS LIST

TUNER SECTION

NO.	DESCRIPTION	PART NO.
R1	Resistor	N60142*151JL
R2	Resistor	N60141*331J
R4	Resistor	N60141*182J
R5	Resistor	N60141*564J
R6	Resistor	N60142*223JL
R7	Resistor	N60141*224J
R8	Resistor	N60142*104JL
R9	Resistor	N60141*104J
R10	Resistor	N60141*102J
R11	Resistor	N60142*103JL
R12	Resistor	N60142*331JL
R13	Resistor	N60142*224JL
R14,15	Resistor	N60142*332JL
R16,17	Resistor	N60142*103JL
R18	Resistor	N60141*822J
R19	Resistor	N60141*330J
R20	Resistor	N60142*101JL
R22	Resistor	N60142*560JL
R23	Resistor	N60142*471JL
C1	Ceramic Con.	N65500*180JL
C2	Ceramic Con.	N65500*220JL
C3	Ceramic Con.	N65503*223ZL
C4	Ceramic Con.	N65505*220JL
C5	Ceramic Con.	N65500*050DL
C6	Ceramic Con.	N65505*220JL
C7	Ceramic Con.	N65505*150J
C8	Ceramic Con.	N65503*223ZL
C10	Ceramic Con.	N65505*080J
C11-14	Ceramic Con.	N65503*223ZL
C15	Electrolytic Con.	N67350*0100L
C16	Ceramic Con.	N65503*223ZL
C17	Ceramic Con.	N65500*101KL
C18	Electrolytic Con.	N76500*0338L
C19	Electrolytic Con.	N76500*0338L
C20	Electrolytic Con.	N76500*0479L
C22	Electrolytic Con.	N76500*0108L
C23	Poly Con.	N63501*102J
C24	Electrolytic Con.	N76500*0108L
C25,26	Electrolytic Con.	N76500*0108
C27,28	Semi Cdtr. C.C.	N75253*153ML
C35	Electrolytic Con.	N67350*0100L
C36	Ceramic Con.	N65503*223ZL
T1	FM IFT	N80HF**041
T2,4	AM IFT	N80MF**027
T3	FM IFT	N80HF**045
T6	OSC Coil	N80THL*052
L1	FM Ant coil	N73THB*004
L2	FM RF coil	N73THH*003
L3	FM OSC coil	N73FAL*012
L4	Bar Ant coil	N71LMA*422
IC1	I.C.	N56TA**7358P
IC2	I.C.	N56TA**7640AP
IC3	I.C.	N56TA**7343P

Q1	Transistor	N572SC*828R
D1	Diode	N551S**2638
D2	Diode	N551N**4148
CF1	FM Ceramic Filter	N93CF**101
CF2	AM Ceramic Filter	N93CF**405
SR1	Semi VR	N61TVR*026
VC1	Varicon	N68VC**063***M
S1	Band SW	N77SLS*432*A
PCB	Tuner PCB	N14PCB*1021

AUDIO/FUNCTION/G.E.Q. AND OTHERS SECTION



R201,401	Resistor	N60142*564JL
R202,402	Resistor	N60142*223JL
R203,403	Resistor	N60142*122JL
R204,404	Resistor	N60142*680JL
R205,405	Resistor	N60142*153JL
R206,406	Resistor	N60142*334JL
R207,407	Resistor	N60142*123JL
R208,408	Resistor	N60142*222JL
R209,409	Resistor	N60142*184JL
R210,410	Resistor	N60142*222JL
R211,411	Resistor	N60142*472JL
R212,412	Resistor	N60142*223JL
R213,413	Resistor	N60142*102JL
R214,414	Resistor	N60142*184JL
R215,415	Resistor	N60142*560JL
R216,416	Resistor	N60142*153JL
R217,417	Resistor	N60142*393JL
R218,418	Resistor	N60142*472JL
R219,419	Resistor	N60142*822JL
R220,420	Resistor	N60142*100JL
R223,423	Resistor	N60142*103JL
R224,424	Resistor	N60142*821JL
R225,425	Resistor	N60142*105JL
R226,426	Resistor	N60142*471JL
R227,427	Resistor	N60142*472JL
R228,428	Resistor	N60142*472JL
R229,429	Resistor	N60142*102JL
R230,430	Resistor	N60142*102JL
R231,431	Resistor	N60142*102JL
R232,432	Resistor	N60142*472JL
R235,435	Resistor	N60142*472JL
R236,436	Resistor	N60142*105JL
R237,437	Resistor	N60142*223JL
R238,438	Resistor	N60142*102JL
R239,439	Resistor	N60142*103JL
R240,440	Resistor	N60142*105JL
R301	Resistor	N60142*121JL
R302	Resistor	N60142*181JL
R303	Resistor	N60142*471JL
R304	Resistor	N60142*101JL
R305	Resistor	N60142*225JL
R306	Resistor	N60142*181JL
R307	Resistor	N60142*182JL
R308	Resistor	N60142*222JL
R309	Resistor	N60142*108JL

R310	Resistor	N60142*223JL
R311	Resistor	N60142*330JL
R312	Resistor	N60142*101JL
R313	Resistor	N60142*102JL
R314	Resistor	N60142*102JL
R328	Resistor	N60142*121JL
R329, 330	Resistor	N60142*100JL
R331	Resistor	N60142*471JL
R332, 333	Resistor	N60142*100JL
R340	Resistor	N60142*471JL
R341	Resistor	N60142*121JL
R342, 343	Resistor	N60142*103JL
R344	Resistor	N60142*124JL
R345, 346	Resistor	N60142*822JL
R347	Resistor	N60142*153JL
R353	Resistor	N60122*478J
R602, 802	Resistor	N60142*104JL
R603, 803	Resistor	N60142*102JL
R604, 804	Resistor	N60142*108JL
R806, 808	Resistor	N60142*563JL
R607, 807	Resistor	N60142*104JL
R631, 831	Resistor	N60144*221J
R901-904	Resistor	N60144*563JL
R905-921	Resistor	N60144*562JL
C201, 401	Ceramic Con.	N65500*100JL
C202, 402	Special E.C.	N76500*0478L
C203, 403	Semi Cdtr. C.C.	N75253*122ML
C204, 404	Electrolytic Con.	N67250*0220L
C205, 405	Semi Cdtr. C.C.	N75253*123ML
C206, 406	Special E.C.	N76500*0478L
C207, 407	Semi Cdtr. C.C.	N75253*122ML
C208, 408	Semi Cdtr. C.C.	N75253*122ML
C209, 409	Special E.C.	N76500*0478L
C210, 410	Special E.C.	N76500*0478L
C211, 411	Semi Cdtr. C.C.	N75253*333ML
C212, 412	Electrolytic Con.	N67250*0220L
C213, 413	Ceramic Con.	N65500*220JL
C214, 414	Semi Cdtr. C.C.	N75253*104ML
C215, 415	Special E.C.	N76500*0478L
C216, 416	Semi Cdtr. C.C.	N75253*123ML
C217, 417	Semi Cdtr. C.C.	N75253*102ML
C219, 419	Special E.C.	N76500*0478L
C220, 420	Semi Cdtr. C.C.	N75253*102ML
C221, 421	Special E.C.	N76500*0478L
C222, 422	Ceramic Con.	N65500*331KL
C223, 423	Special E.C.	N76500*0478L
C224, 424	Semi Cdtr. C.C.	N75253*473ML
C225, 425	Special E.C.	N76500*0108L
C226, 426	Semi Cdtr. C.C.	N75253*682ML
C227, 427	Semi Cdtr. C.C.	N75253*104ML
C228, 428	Semi Cdtr. C.C.	N75253*102ML
C229, 429	Semi Cdtr. C.C.	N75253*123ML
C230, 430	Special E.C.	N76500*0478L
C231, 431	Special E.C.	N76500*0478L
C234, 434	Semi Cdtr. C.C.	N75253*153ML
C301	Electrolytic Con.	N67160*0101L
C302	Electrolytic Con.	N67160*0101L
C303	Electrolytic Con.	N67160*0101L
C304	Electrolytic Con.	N67160*0221L
C305	Electrolytic Con.	N67350*0100L

C306	Electrolytic Con.	N67160*0101L
C307	Mylar Con.	N64500*223KL
C308	Mylar Con.(P.P.)	N64502*682KL
C309	Electrolytic Con.	N67160*0101L
C311	Mylar Con.(P.P.)	N64502*103KL
C318	Electrolytic Con.	N67160*0470L
C319	Electrolytic Con.	N67160*0471L
C320	Semi Cdtr. C.C.	N75253*104ML
C321,322	Ceramic Con.	N65503*223ZL
C323	Electrolytic Con.	N67160*0100L
C324	Electrolytic Con.	N67160*0470L
C326	Mylar Con.	N64500*272K
C328	Electrolytic Con.	N67160*0101L
C329	Electrolytic Con.	N67160*0221L
C601,801	Special E.C.	N76500*0108L
C602,802	Semi Cdtr. C.C.	N75253*222ML
C603,803	Electrolytic Con.	N67250*0220L
C606,806	Semi Cdtr. C.C.	N75253*104ML
C607,807	Electrolytic Con.	N67250*0471
C609,809	Ceramic Con.	N65500*330JL
C702	Electrolytic Con.	N67350*0222
C705-712	Ceramic Con.	N65503*223ZL
C714	Electrolytic Con.	N67250*0222
IC301	IC	N56TA**7325P
IC302	IC	N56TA**7668BP
IC303	IC	N56AN**7330K
IC306	IC	N56TA**78005AP
IC601,801	IC	N56TDA*2006
IC901	IC	N56TMP47C420AF
Q201,401	Transistor	N572SC*828R
Q203,403	Transistor	N572SC*828R
Q205,405	Transistor	N572SC*828R
Q301	Transistor	N572SC*1317R
Q304,307	Transistor	N572SD*882*Q
Q308	Transistor	N572SA*719R
D301	LED	N82LED*091
D302	LED	N82LED*051
D303,304,305	Diode	N551N**4148
D306	Diode	N551N**4002
D307	Diode	N55VZ**091
D702-709	Diode	N551N**4002
D901-903	Diode	N551N**4148
T301	OSC Coil	N80TLF*006
L301,302	Choke Coil	N74000*0102
S2	Slide SW	N77SLS*641
S3	R/P SW	N77SLS*924
S4	Slide SW	N77SLS*427
S7	Beat SW	N77TSS*101*A
S12-20	Tact SW	N77PUS*003
S26	Slide SW	N77SLS*427

J202,402	Speaker Jack	N87102*500D
J205,405	Speaker Jack	N87102*500D
J701	Headphone Jack	N87JAK*068
SR301,302	Semi VR	N61TVR*026
VR301,302,303	Slide VR	N61SVR*809
VR304	Slide VR	N61SVR*712
VR305	Slide VR	N61SVR*425*A

 Fuse	Fuse	N8420T*1000
 Fuse	Fuse	N8420T*1600

 PT	Power Trans	N80PT**4135BT
 COD	AC Cord	N89COD*070

PCB	R/P Amp PCB	N14PCB*1541
PCB	Stereo LED PCB	N14pCB*1544
PCB	Function PCB	N14PCB*1635
PCB	CD Control PCB	N14PCB*1535
PCB	Power Amp PCB	N14pCB*1505
PCB	Headphone PCB	N14pCB*884
PCB	SP Jack PCB	N14PCB*1583
PCB	Player PCB	N14PCB*1555

CD PCB ELECTRICAL PARTS LIST

NO.	DESCRIPTION	PARTS LIST
R101	Resistor	N60166*225J
R102	Resistor	N60166*181F
R103	Resistor	N60166*100F
R104	Resistor	N60166*561J
R105	Resistor	N60166*273F
R106	Resistor	N60166*222F
R107	Resistor	N60166*181F
R108	Resistor	N60166*563F
R109	Resistor	N60166*681J
R110	Resistor	N60166*220J
R112	Resistor	N60166*470J
R113	Resistor	N60166*103J
R114	Resistor	N60166*102J
R501	Resistor	N60166*122J
R502	Resistor	N60166*122J
R503	Resistor	N60166*683J
R504,505	Resistor	N60166*562J
R506,507	Resistor	N60166*822J
R508	Resistor	N60166*103J
R509	Resistor	N60166*103J
R510,511	Resistor	N60166*822J
R512	Resistor	N60166*473J
R513,514	Resistor	N60166*223J
R515,516	Resistor	N60166*102J
R517,518	Resistor	N60166*220J
R519,520	Resistor	N60166*331J
R523,524	Resistor	N60166*822J
R526	Resistor	N60166*224J
R527	Resistor	N60166*224J
R701	Resistor	N60166*564J
R702	Resistor	N60166*124J
R704	Resistor	N60166*103J
R706	Resistor	N60166*104J
R707	Semi VR	N61TVR*057
R708	Resistor	N60166*154J
R709	Resistor	N60166*102J
R710	Resistor	N60166*151J
R711	Resistor	N60166*822J
R712	Resistor	N60166*822J
R713	Resistor	N60166*564J
R714,715	Resistor	N60166*123J
R716	Resistor	N60166*155J
R717	Resistor	N60166*473J
R718	Resistor	N60166*184J
R720	Resistor	N60166*102J
R721	Resistor	N60166*822J
R722	Resistor	N60166*392J
R723	Resistor	N60166*183J
R724	Resistor	N60166*822J
R725	Resistor	N60166*473J
R726	Semi VR	N61TVR*057
R727	Resistor	N60166*185J
R728	Semi VR	N61TVR*057
R729	Semi VR	N61TVR*052
R730	Resistor	N60166*223J
R731,732	Resistor	N60166*103J
R733	Resistor	N60166*223J
R734	Resistor	N60166*473J
R735	Resistor	N60166*181J
R736	Resistor	N60166*122J
R737	Resistor	N60166*103J
R738	Resistor	N60166*392J

R739	Resistor	N60166*562J
R740	Resistor	N60166*102J
R741	Resistor	N60166*223J
R742	Resistor	N60166*392J
R743	Resistor	N60166*103J
R744	Resistor	N60166*333J
R745	Resistor	N60166*473J
R747	Resistor	N60166*122J
R748	Resistor	N60166*182J
R749	Resistor	N60166*333J
R751	Resistor	N60166*124J
R752	Resistor	N60166*153J
R753	Resistor	N60166*183J
R754	Resistor	N60166*683J
R755	Resistor	N60166*102J
R757	Resistor	N60166*102J
R758	Resistor	N60166*183J
R759	Resistor	N60166*823J
R760	Resistor	N60166*683J
R761	Resistor	N60166*224J
R762	Resistor	N60166*104J
R764	Resistor	N60166*151J
R765	Resistor	N60166*103J
R780	Resistor	N60166*474J
C101	Electrolytic Con.	N67500*0108
C102	Electrolytic Con.	N67100*0221
C103,104	Electrolytic Con.	N67500*0108
C105	Electrolytic Con.	N67100*0101
C106,107	Ceramic Con.	N65500*223M
C301,302	Ceramic Con.	N65500*220J
C303	Electrolytic Con.	N67100*0101
C304	Electrolytic Con.	N67500*0339
C501	Electrolytic Con.	N67100*0101
C502,503	Ceramic Con.	N65500*331K
C504	Electrolytic Con.	N67100*0101
C505	Electrolytic Con.	N67100*0221
C506,507	Mylar Con.	N64500*122J
C508	Electrolytic Con.	N67100*0470
C509	Electrolytic Con.	N67100*0101
C512,513	Electrolytic Con.	N67500*0100
C514,515	Ceramic Con.	N65500*182K
C516,517	Ceramic Con.	N65500*561K
C518	Electrolytic Con.	N67100*0101
C519,520	Electrolytic Con.	N67500*0108
C521	Electrolytic Con.	N67500*0100
C523,524	Electrolytic Con.	N67100*0470
C525,526	Electrolytic Con.	N67100*0221
C701	Ceramic Con.	N65500*020J
C703	Semi Conductor C.C.	N75253*103M
C704	Ceramic Con.	N65500*120J
C705	Electrolytic Con.	N67100*0221
C706	Ceramic Con.	N65500*101K
C707	Ceramic Con.	N65500*181J
C708	Ceramic Con.	N65500*680J
C709	Electrolytic Con.	N67100*0221
C710	Ceramic Con.	N65500*103K
C711,712	Ceramic Con.	N65500*470J
C715	Mylar Con.	N64500*104J
C716	Electrolytic Con.	N67100*0470
C717	Ceramic Con.	N65500*220J
C718	Ceramic Con.	N65500*101K
C719	Electrolytic Con.	N67100*0101
C721	Semi Conductor C.C.	N75253*333M
C720	Ceramic Con.	N65500*223M

C722	Ceramic Con.	N65500*473J
C723	Electrolytic Con.	N67500*0100
C724	Electrolytic Con.	N67500*0479
C725	Electrolytic Con.	N67500*0109
C726	Mylar Con.	N64500*223J
C727	Mylar Con.	N64500*104J
C728	Mylar Con.	N64500*223J
C730	Electrolytic Con.	N67100*0101
C731	Electrolytic Con.	N67500*0228
C732	Semi Conductor C.C	N75253*104M
C733,734	Electrolytic Con.	N67100*0101
C735-740	Semi Conductor C.C.	N75253*104M
C741-742	Electrolytic Con.	N67100*0101
C743	Semi Conductor C.C.	N75253*104M
C744	Electrolytic Con.	N67100*0101
C747	Electrolytic	N67160*0101
C748	Ceramic Con.	N65500*104K
Q101	I.C	N56NJM*2904S
Q301	I.C	N56TC**9200AF
Q302	I.C	N56TC**5518CFL
Q303	I.C	N56M***51943B
Q501	I.C	N56TD**6710AF
Q502	I.C	N56TA**7415P
Q701	I.C	N56TA**8101F
Q702	I.C	N56TC**9201AFS
Q703	I.C	N56NJM*3403AM
Q704	I.C	N56TMP*47C420AF
Q705-708	I.C	N56TA**8102P
Q102	Transistor	N572SA*950
Q503,504	Transistor	N572SC*2878B
Q505	Transistor	N572SA*1048GR
Q709	Transistor	N572SC*2878B
Q710	Transistor	N572SC*2458GRT
D101,102	Diode	N5504AZ022Z
D103,104	Diode	N551SS*176
D701-704	Diode	N551SS*176
D705	Diode	N5505AZ3.9Z
Z301	Crystal	N93CF**206
Z501,502	LC Filter	N80HF**0312
L101	Coil	N74001*0100
PCB	CD PCB	XRME*03

APPEARANCE & MISCELIANEOUS PARTS LIST

NO	DESCRIPTION	PARTS NO
1	Dust Cover	H0432700002
2	Adapter	H1703**0015
3	Hing Holder x 2	H1026030051
4	Hing Shaft x 2	H2726030053
8	Turn Table Rubber x 3	S0506**0003
10	Player Base	H0133300001
11	Side Panel L	H0333300007
12	Side Panel R	H0333300006
13	Jack Plate Holder	H1029900020
14	Cord Bushion	N97CW**122
15	Jack Plate	H0727200020
16	Jack Holder	H1026500056
17	Back Board	H0233300009
18	Cord Clip Holder	H1020000076
19	Speaker Jack PCB	N14PCB*1583
20	Heat Sink	H3426520020
22	Power Amp PCB	N14PCB*1505
23	Bottom Holder	H1022050007
24	Nut	S02040*0007
25	Trans Holder	S0420030037
26	Power Trans	N80PT**4135
27	Back Board Holder L	H1022050006
28	Stud x 4	H2720251001
29	Foot x 4	S0528440042
30	Back Board Holder R	H1022050005
31	Bottom Holder	H1022050007
32	Bottom Board	H0233300008
33	Tuner PCB	N14PCB*1141
34	CD Lever A	H1533300019
35	Flat Washer x 2	S04130*0805
36	Dial Pulley x 2	H71C2031004
37	Tuning Knob	H1128440013
38	Machine Screw	S01101*2606
39	Dial Drum	H1728440023
40	Dial Spring	S18071*3195
41	Dial Chassis	H1529800002
42	CD Deck Ass'y	XRME-03
43	CD Chassis	H1533300005
44	Function PCB*	N14PCB*1635
45	CD Control PCB	N14PCB*1535

46	VR Holder	H1029800004
47	Heat Sink	H3433300037
48	Band Knob	H1132700004
49	Band Knob Lever	H1529800008
50	Flat Washer	S04130*1210
51	R/P Amp PCB	N14PCB*1541
52	CD Deck Ass'y	XRME-03
53	Rec Arm	H1527700028
54	PCB Holder	H1028620024
55	PCB Holder	H1028620008
56	Deck Ass'y	TN21ZFW-222
57	Mech Holder	H1029800019
58	Mech Button A	H1127700006
59	Mech Button x 10	H1127700005
60	Radio Plate	H1533300010
61	CD LeverSpring	S1833300022
62	CD Case	H0533300003
63	CD Case Plate	H1533300014
64	Dubber Cushion	XRME-05
65	Pick UP Cover	H0433300043
66	Stereo LED PCB	N14PCB*1544
67	CD Deck Ass'y	XRME-03
68	CD Display	XRME-02
69	LED Indicator	H2129800009
70	CD Knob.	H1133300017
71	Plate Nut	S02140*0015
72	PCB Holder	H1026030038
73	Headphone PCB	N14PCB*884
74	Power Sw	N77PUS*136
75	Power Knob	H1128300011
76	Function Knob x 3	H1132700006
77	Front Panel	H0333300002
78	Function Knob	H1132700006
79	VR Knob x 2	H1132700007
80	Control Plate	H1533300008
81	Cassette Case	H0527300002
82	Function Plate A	H1533300011
83	Cassette Case	H0520300002
84	Cassette Spring	S1829550018
85	CD Case Spring	S1833300021
86	CD Lever	H1533300016
87	Dump Gear x 3	H1718050012
88	Dump Case	H0518050011

89	Cassette Plate x 2	H1520300008
90	Micro Sw	N77LFS*101
91	Door Lock Ass'y	IQ61
92	Drum Case x 2	H0533000022
93	EQ Holder	H1033300004
94	Pointer	H3228440011
95	Tapping Screw	S0128440038
96	Tapping Screw	S01302*3010
97	Tapping Screw	S01301*2608
98	Tapping Screw	S10301*3006
99	Tapping Screw	S013013010
100	Tapping Screw	S01301*4014
101	Tapping SCrew	S01301*3028
102	Tapping Screw W	S01302*3012
103	Machine SCrew	S01301*3012
104	Machine Screw	S01303*3006
105	Machine Screw	S01600*3006
106	Machine Screw	S01104*4020
107	Wooden Screw	S01701*3012
108	Machine Screw	S0110052003
109	Machine SCrew	S0128840037
110	CD Case A	H0533300015
111	Special Screw	S0133300021
112	Tapping Screw	S01304*2006
113	Tapping Screw	S01401*2608

TN21ZFW222 MECHANICAL PARLS LIST

NO	Description	Parts NO
1	Base Ass'y	1921-14-301
2	Switch Autuator	1921-14-09
3	Push Button Actuator	1921-14-08
4	Rec Button Lever	1921-14-22
5	Play Button Lever	1921-14-23
6	Rew Button	1921-14-24
7	FF Button Lever	1921-14-25
8	Stop Button Lever	1921-14-26
9	Pause Button Lever	1921-14-27
10	P Control Spring	1921-14-13
11	Pause Lever	1921-14-10
12	Pause Lever Spring	1921-14-12
13	Pause Stopper	1921-14-11
14	Button Lever Spring A	1921-14-14
15	Chassis Ass'y	1921-01-501
16	E Actuator Spring	1921-14-16
17	P.S.Lever Spring	1921-14-17
19	E Kick Lever	1821-01-159
20	PR Stopper	1821-14-20
21	Rec Button Lever Spring	1921-14-21
22	Button Lever Spring B	1921-14-15
23	Leaf Switch MSW-1541T	6401-01-149
25	Head Panel	1921-03-01
26	Head Panel	1921-03-02
27	Head Base	1921-03-04
28	Head Base	1921-03-06
29	Panel P Spring	1921-03-03
30	M Control Spring	1921-14-18
33	EH Spring	1821-03-088
34	Azimuth Spring	1821-03-07
35	Pinch Roller Arm Ass'y	1921-04-301
38	Seneing Lever	1921-26-04
39	RF Clutch Ass'y	1921-07-302
40	RF Belt	1921-07-03
43	Flywheel Ass'y	1921-09-304
44	Flyeheel Ass'y	1921-09-303
45	Gear Plate Spring	1921-26-05

46	Gear Plate Ass'y	1921-26-501
47	Cam Gear	1921-26-02
49	FF Gear	1821-10-70
50	Back Tension Spring	1829-10-10
51	Supply Reel Ass'y	1921-05-302
52	Take UP Reel Ass'y	1921-05-301
53	Senser	1921-05-06
55	Motor Bracket	1921-12-11
56	Motor Rubber	1820-13-06
57	Motor Coller Screw	1821-12-02
58	Motor Pulley	1921-12-13
59	Main Belt	1921-12-22
60	Anti Vibration Felt Mat	1921-12-12
62	Eject Slide Lever	1921-13-02
64	Pack Spring	1829-10-01
66	R/P Head	MS15R-AA&N1
67	E Head	LE15B-C1
68	Motor	SHU-2L50
69	Record Safety Lever	1821-10-69
70	B3LUG 2.0	9480-00-00
71	C Tapping Screw M2x3	9179-00-00
72	C Tapping Screw M2x4	9180-00-00
73	P Tapping Bing Screw M2x5	9679-00-00
74	Tapping Screw M2x4.5	9999-18-09
75	Screw M2x8	9004-00-00
76	+ Cap Screw M2x7.5	9223-00-00
77	+ Bind Screw M2x3	9115-00-00
78	Azimuth Screw M2x7	9922-00-00
79	C Tapping Screw M2x6	9182-00-00
83	P Washer Cut 1.2x3.8x0.3	9422-00-00
84	P Washer Cut 1.45x3.8x0.5	9999-03-13
85	P Washer 2x3.5x0.3	9786-00-00
86	E Ring S3.2	9506-00-00
88	Button Frame	1821-31-01
89	Button Lever Shaft	1821-31-03
90	S Tapping Screw M2x8	9982-00-00
91	P Kick Lever B	1921-12-09
92	P Kick Lever A	1821-12-68
93	PK Coller Screw A	1821-12-23
94	Coller B	1821-12-65
95	P Kick Lever Spring	1821-12-25