

MARANTZ DESIGN AND SERVICE

Using superior design and selected high grade components, MARANTZ company has created the ultimate in stereo sound. Only **original MARANTZ parts** can insure that your MARANTZ product will continue to perform to the specifications for which it is famous.

Parts for your MARANTZ equipment are generally available to our National Marantz Subsidiary or Agent.

ORDERING PARTS:

Parts can be ordered either by mail or by telex. In both cases, MARANTZ part number has to be specified. If you order by mail, fulfil MARANTZ order forms.

MARANTZ S.A.
EUROPEAN PARTS DEPARTMENT
2, Avenue Léopold III
B-7120 PERONNES-lez-BINCHE
BELGIUM
TWX: 57589 SEPLT B

MARANTZ NATIONAL PARTS DEPARTMENT
20525 Nordhoff Street
Chatsworth, California 91311
Phone: 1-800-423-5108
Phone: 1-213-998-9333

The following information must be supplied to eliminate delays in processing your order:

1. Complete address
2. Complete part numbers and quantities required
3. Description of parts
4. Model number for which part is required
5. Way of shipment
6. Signature: any order form or telex must be signed otherwise such part order will be considered as null and void.

PARTS ORDERING:

Parts may be ordered from the following addresses:

EUROPE

MARANTZ S.A.
European Parts Department
2, Avenue Léopold III
B-7120 Péronnes-lez-Binche
Belgium

MARANTZ S.A.
326 Avenue Louise Bte 32
1050 Bruxelles
Belgium

MARANTZ AUDIO U.K. LTD
Unit 15/16
Saxon Way Industrial Estate
Moor Lane
Harmondsworth UB7 OLW
Great Britain

MARANTZ AUSTRIA Ge.M.B.H.
25 Franz Lisztgasse
2380 Perchtoldsdorf
Austria

MARANTZ BELGIUM
45 Rue Auguste Van Zande
1080 Brussels
Belgium

MARANTZ DENMARK
Bregnerødvej 132b
3460 Birkerød
Denmark

MARANTZ FRANCE
4 Rue Bernard Palissy
92600 Asnières
France

**MARANTZ GERMANY
G.M.B.H.**
Max Planckstrasse 22
6072 Dreieich 1
Germany

MARANTZ ITALIANA S.p.A.
Via Monte Napoleone 10
20121 Milano
Italy

MARANTZ NEDERLAND B.V.
Wagenmakersweg 3
3449 HV Woerden
Netherlands

AUSTRALIA

MARANTZ SVENSKA A.B.
Svartviksvägen 56
Träneberg
Bromma
Sweden

MARANTZ AUSTRALIA PTY
19 Chard Road
Brookvale, NSW 2100
Australia

U.S.A.

MARANTZ COMPANY, INC.
National Service Dept.
PO. Box 577
Chatsworth, CA 91311
U.S.A.

JAPAN

MARANTZ JAPAN, INC.
35-1, 7-chome, Sagamiono
Sagamihara-shi, Kanagawa
Japan

All of the above locations are fully equipped to take care of your total service needs. Because various countries have differing configuration requirements, it is necessary that you contact the service facility in your particular country. In the event that there is no service location listed for your country, please, contact the nearest facility for the necessary assistance.

In case of difficulties, do not hesitate to contact the Technical Department at abovementioned address.

NOTE—FOR U.S.A. ONLY

Parts for your MARANTZ stereo are generally available within 72 hours throughout the nation via a toll-free line to our National Parts Depot in California. The sales professionals who take your call immediately refer to their own desk top computer terminal and can quickly determine the availability and price information you require. If, for some reason, your order should exceed our available stock, we usually can instantly provide an alternate replacement part or current delivery information. When the order is placed and confirmed, the computer simultaneously generates "hard copy" orders at the distribution center. As hard copies come directly from the computer to the national parts depot, your requested stock is assembled and prepared for shipment and placed on the first available carrier for delivery to you.

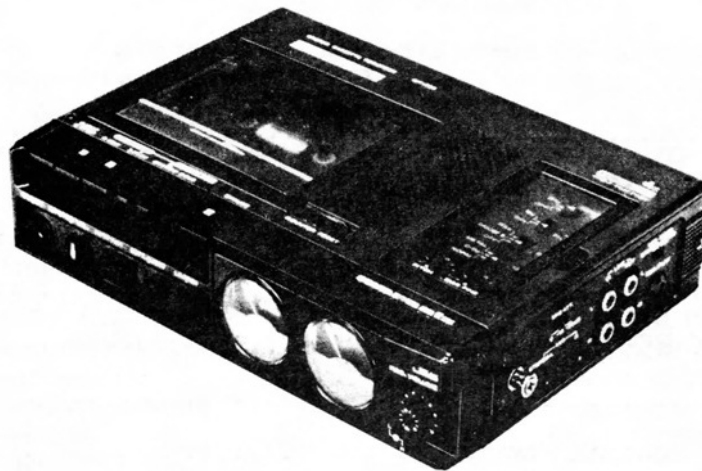
Phone orders will eliminate mail delays, and we encourage the use of this method. If you order by mail, use MARANTZ parts order forms which are available from MARANTZ NATIONAL PARTS DEPARTMENT.

marantz®

TABLE OF CONTENTS

SECTION	PAGE
INTRODUCTION	1
1. SHOCK, FIRE HAZARD SERVICE TEST:	1
2. P.W. BOARDS	1
3. TEST EQUIPMENT FOR SERVICING	1
4. MECHANISM AND CIRCUIT DESCRIPTION	2
4.1 Muting System	2
4.2 Auto PLAY and Automatic Rewind Stop	2
4.3 Auto Stop	2
4.4 Pitch Control	2
5. ELECTRICAL ADJUSTMENTS	3
5.1 Head Azimuth Adjustment	3
5.2 Tape Speed Adjustment	3
5.3 Playback Equalizer Measurement	3
5.4 Playback Level Adjustment	3
5.5 Level Meter Adjustment	4
5.6 Playback Noise Measurement	4
5.7 MPX Filter Adjustment	4
5.8 Record/Playback Frequency Response and Recording Level Adjustment	4
5.9 Alignment Points	5
6. DIAGRAMS	6
6.1 Wiring Diagrams	6
6.2 Chip Parts Component Locations	8
6.3 Block/Level Diagrams	10
7. EXPLODED VIEW AND PARTS LIST	12
8. ELECTRICAL PARTS LIST	18
9. TECHNICAL SPECIFICATIONS	25
10. SCHEMATIC DIAGRAM	26

MODEL CP430/PMD430 STEREO CASSETTE RECORDER



INTRODUCTION

This service manual are prepared for use by Authorized Warranty Station and contains service information for Marantz Stereo Cassette Recorder.

Servicing information and voltage data included in this manual are intended for use by the knowledgeable and experienced technician only. All instructions should be read carefully. No attempt should be made to proceed without a good understanding of the operation of the Cassette Recorder.

The parts list furnishes information by which replacement parts may be ordered from the Marantz Company. A simple description is included for parts which can be usually obtained through local suppliers.

1. SHOCK, FIRE HAZARD SERVICE TEST:

CAUTION: After servicing this appliance and prior to returning to customer, measure the resistance between either primary AC cord connector pins (with unit NOT connected to AC mains and its Power switch ON), and the face or front Panel of product and controls and chassis button.

Any resistance measurement less than 1 Megohms should cause unit to be repaired or corrected before AC power is applied, and verified before return to user/customer.

Ref. UL Standard NO. 1270. Para 66. 3. D (Mandatory Test after servicing Electrical Appliances, effective 7-1-83).

2. P.W. BOARDS

As can be seen from the circuit diagram, the chassis of your Cassette Recorder consists of the following units. Each unit mounted on a printed circuit board is described within the square enclosed by a bold dotted line on the circuit diagram.

1. Rec/Play Amp mounted on P.W. Board PK01
2. TAPE EQ AMP mounted on P.W. Board PJ01
3. ATT Switch mounted on P.W. Board PK03
4. L.E.D. mounted on P.W. Board PX02
5. Mecha Control mounted on P.W. Board PM01
6. Control Switch mounted on P.W. Board PS01
7. Light mounted on P.W. Board PX01
8. Mic Mode mounted on P.W. Board PK02
9. Dolby NR L mounted on P.W. Board P601
10. Dolby NR R mounted on P.W. Board P602

3. TEST EQUIPMENT REQUIRED FOR SERVICING

For measuring or checking your Cassette Recorder, the following instruments and materials are necessary.

- VTVM
- Audio Oscillator (AF OSC)
- Attenuator (600 Ω)
- Oscilloscope
- Bandpass Filter (1 kHz)
- IEC A-Curve Filter
- Wow and Flutter Meter
- Torque Meter (Cassette Type)
- Digital Frequency Counter
- Distortion Meter
- Blank Tapes (Completely erased with bulk eraser)
 - TDK AC-212 (Normal)
 - TDK AC-512 (Special/CrO₂)
 - TDK AC-712 (Metal)

NOTE: If any doubt is noted in a measured value, use new tape.

- Test Tapes (New Tape)
 - MTT-111 Wow and Flutter, Tape Speed
 - MTT-112 Measurements of Output Level
 - MTT-112B Signal-to-Noise Ratio
 - MTT-150 Adjustment of Output Level
 - MTT-256 Frequency Response (for Normal)
 - MTT-356 Frequency Response (for Special/CrO₂ and Metal)
 - MTT-121 Cross Talk
 - MTT-141 Channel Separation

4. MECHANISM AND CIRCUIT DESCRIPTION

4.1 Muting System

The muting circuit is provided to reduce the pops noise when generates on the Line Out at power ON/OFF.

1) When power is turned on

As the base voltage of QU03 is higher than the emitter voltage during the charge current flows to QU02 through RU03 & RU02, QU03 is ON and it sends the muting voltage.

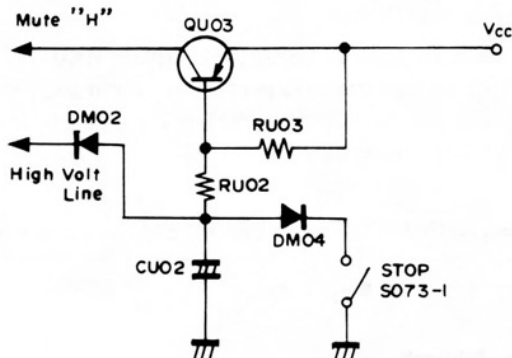
CU02 have been charged up, both the base and the emitter voltages of QU03 is equal. QU03 is OFF and the muting is released.

2) When the STOP button is depressed

When the stop switch S073-1 is ON, the base current flow through DU04. Also discharging CU02, QU03 is ON instantly, the muting system operate to reduce the pops noise at power ON/OFF.

DM02 provides to discharge CU02 on AUTO STOP.

As the muting time is in proportional to capacitance of CU02, it is presetted by matching the threshold time of TAPE EQ Amp.



4.2 Auto PLAY and Automatic Rewind Stop

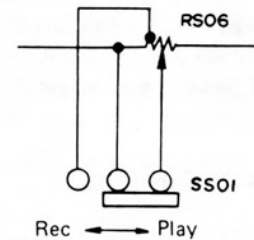
With SS01 set to ON during PLAY, the rewind button will lock when pressed. When counter reaches 999, the rewind lock releases and the PLAY operation resumes. In this condition, both CUE and REVIEW buttons do not operate and both buttons are locked. Also, when the FF button is pressed and locked in place, the lock releases when the counter reaches "900" and the PLAY mode is entered. When the tape has finished winding in both modes before the counter reaches the respective positions, the AUTO STOP function and all buttons are released. Also when the REWIND button alone is locked, the tape rewinds and rewind stops when the counter reaches "999". The same applies for fast forward operation which stops at "900". When the counter is between "900" and "999". both REWIND and FF buttons do not lock.

4.3 Auto Stop

The AUTO STOP function which detects the end of the tape is carried out by hole IC (QM08). The signal from QM08 is added to the pin ④ of QM07, while the auto stop duration is designated inside QM07. The time it takes for the auto stop function to activate after the tape stops, is determined in CM08. At this time TE is $TE = 75 \times CM08$ (μF)mSec, while TW is $TW = 30 \times CM07$ (μF) mSec as long as the auto stop function is operating. When it does not shut off the first time, TE--Tw--TE--TW is repeated until it shuts off.

4.4 Pitch Control

The pitch control is used to vary the tape speed for play-back operation. During recording, it is automatically set to the RS06 center position by SS01.



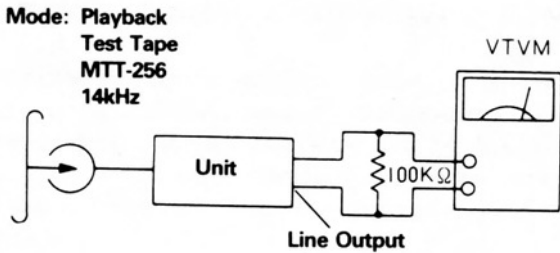
5. ELECTRICAL ADJUSTMENTS

Precautions for Adjustment and Measurement

1. Before playing back the test tape, thoroughly demagnetize the heads, capstan and similar metal parts using an eraser, as the test tape-recorded tone is easily erased.
2. Do not place the test tape on any measuring instrument.
3. Do not put the test tape near a place where the eraser is used.
4. Method of Demagnetization: Turn the eraser power switch on at a position far away from the heads. Bring the eraser close to the heads, capstan and other parts to be demagnetized, and move it up and down four or five times to demagnetize. Slowly separate the eraser far away from the parts, and turn the power switch off.
5. Do not use any magnetized adjusting tool. If necessary, demagnetize with a bulk eraser from time to time in the course of each adjustment.
6. Do not turn semi-fixed resistor or coil more than needed.
7. Measure speed and wow and flutter in the normal operating state.
8. Do not apply locking bond excessively.
9. Check the line voltage and the output of low frequency oscillator 2 – 3 times a day to see if they are set as specified.

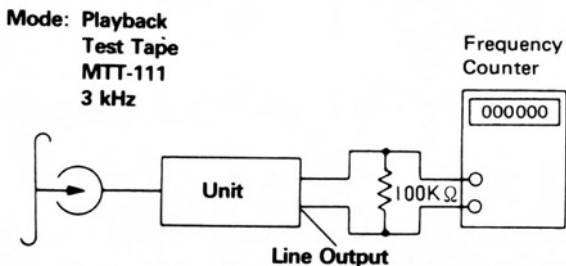
5.1 Head Azimuth Adjustment

1. Play the test tape MTT256 back. Adjust the head azimuth adjusting screw for maximum VTVM reading.
2. If the peak levels of the left and right channels are different set the screws to obtain the mechanical center between the peaks.
3. After adjustment, repeat the playback and stop settings several times to confirm no azimuth deviation.
4. After adjustment, lock the screws with bond.



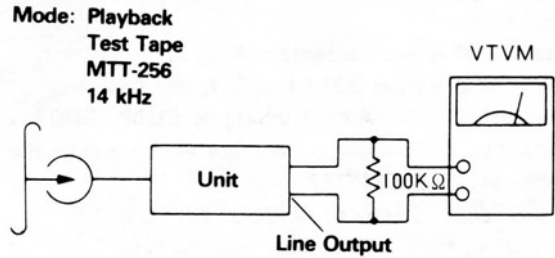
5.2 Tape Speed Adjustment

1. Play the 3kHz signal of the test tape MTT-111 back.
2. Adjust the adjusting resistor (RM05) on the PM01 P.W. Board so that counter readings are between 2990 – 3010Hz.



5.3 Playback Equalizer Measurement

1. Adjust the tape selector switch to NORMAL.
2. Play the 315Hz signal of the test tape MTT-256 back. The VTVM at 0dB.
3. Play the 12.5kHz signal of the test tape back. Confirm a frequency response of 0 to 1dB in reference to the 315Hz signal level. Then, play the 12.5kHz signal back. Set the tape selector to CrO₂, Metal. Confirm the 12.5kHz signal readings at – 4.5dB, ±1dB.

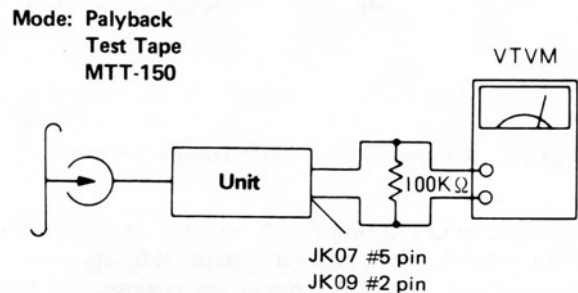


5.4 Playback Level Adjustment

1. Adjust the Tape Selector Switch to NORMAL and turn the NR switch OFF.
2. Play the test tape MTT-150 back. Adjust RK03(L) and RK04(R) so that the voltage of JK07 ⑤ pin and JK09 ② pin is 100 mV. In this operation, make sure the voltage of LINE OUT reads 500 mV + 1 dB.

NOTE:

1. Proceed both for the right and left channels in the same way.



5.5 Level Meter Adjustment

1. Adjust the Tape Selector Switch to NORMAL and turn the NR switch OFF.
2. Play the test tape MTT-150 back. Adjust RK73(L) and RK74(R) at +3dB Level Meter reading.

5.6 Playback Noise Measurement

1. Set the selector switch to NORMAL and NR switch to OFF.
2. Play back the blank tape and make sure that the noise volume is below 2mV when the REC LEVEL Knob is set to both maximum and minimum.

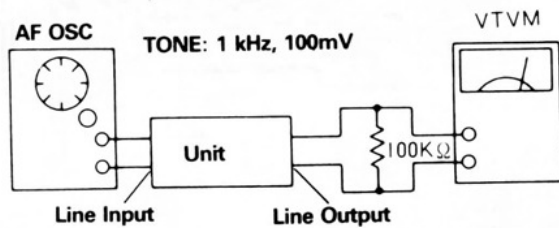
NOTES:

1. Perform measurements when the power hum is at minimum.
2. Perform measurements under conditions where induction noise will not affect measurements.

5.7 MPX Filter Adjustment

1. Adjust the tape selector switch to NORMAL.
2. Put the blank tape in the cassette holder, and set the SK03 in the Source position. (MPX Filter: ON).
3. Add a 1kHz, -20dB signal to LINE IN. Adjust the Rec. Volume knob to 0dB Level Meter reading.
4. Set the input signal at 19kHz \pm 10Hz. Adjust L602(L) and LG61(R) to the minimum level.
If the value is 40dB or more, the adjustment is completed.

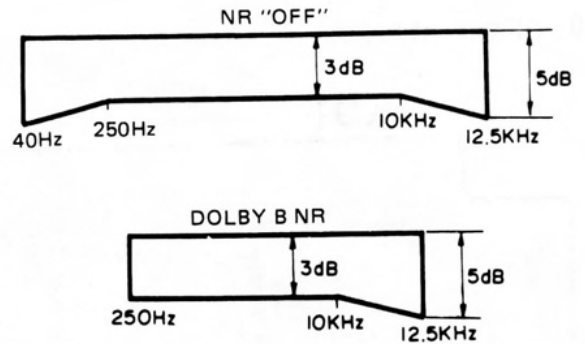
Mode: record



5.8 Record/Playback Frequency Response and Record Level Adjustment

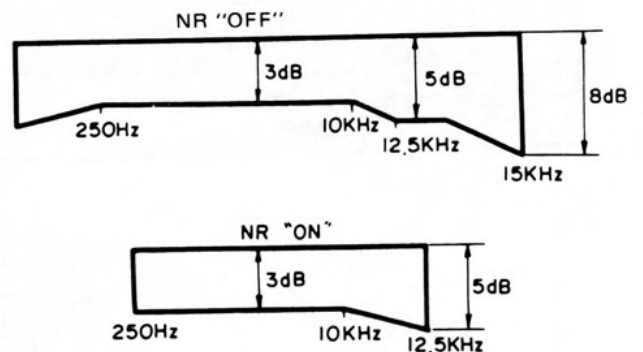
[NORMAL]

1. Set the tape selector switch to NORMAL.
2. Set the MPX filter to OFF and Dolby NR to Dolby B.
3. Insert the AC-212 test tape in the cassette holder and set the recording conditions. Set the monitor switch to SOURCE and attenuate from 1kHz, 500mV to -25dB on Line Out.
4. Set the monitor switch to TAPE and adjust RL07(L) and RL08(R) so that the level for 1kHz and 10kHz is brought within \pm 0.5dB.
5. Adjust RK41(L) and RK42(R) so that the level of 1kHz is the same when the monitor switch is changed from SOURCE to TAPE.
6. After making these adjustment, record and playback at 1kHz, 10kHz, 12.5kHz. Make sure results comply with the following diagram.



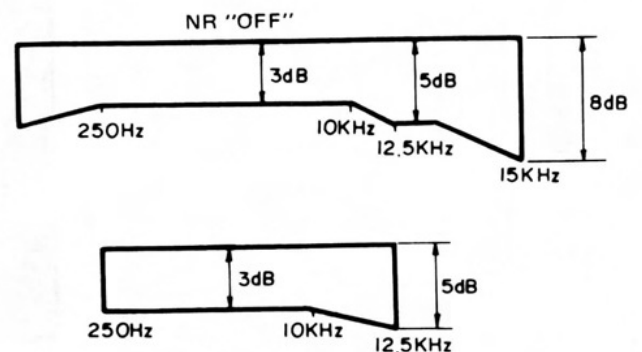
[CrO₂]

1. Set the tape selector switch to CrO₂.
2. Insert the AC-512 test tape in the cassette holder and set the recording conditions. Attenuate from 500mV to -25dB on Line Out with the attenuator and record at 1kHz, 10kHz, 12.5kHz and 15kHz on an unrecorded section of the tape.
3. Record and playback at 1kHz, 10kHz, 12.5kHz and 15kHz. Make sure results comply with the following diagram.



[METAL]

1. Adjust the Tape Selector Switch to METAL.
2. Load the test tape AC-712 into cassette holder. Perform measurements as with CrO₂, and make sure they conform with the Chart.

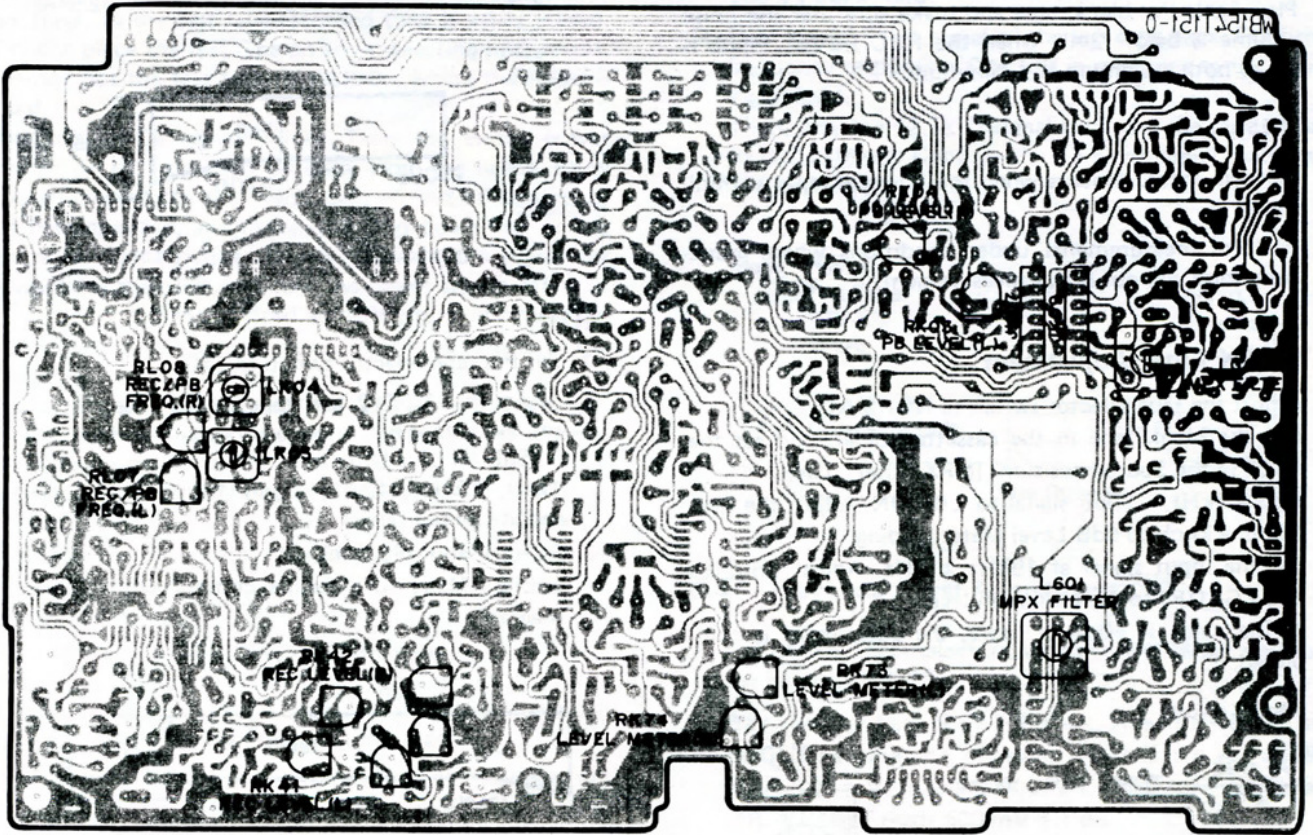


NOTE:

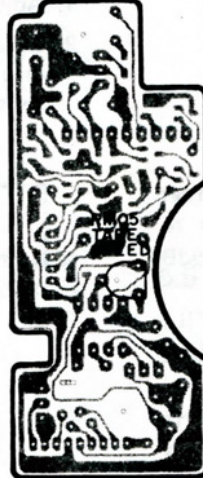
Adjustment points for NORMAL, CrO₂, METAL are common with CB01(L) and CB02(R).

5.9 Alignment Points

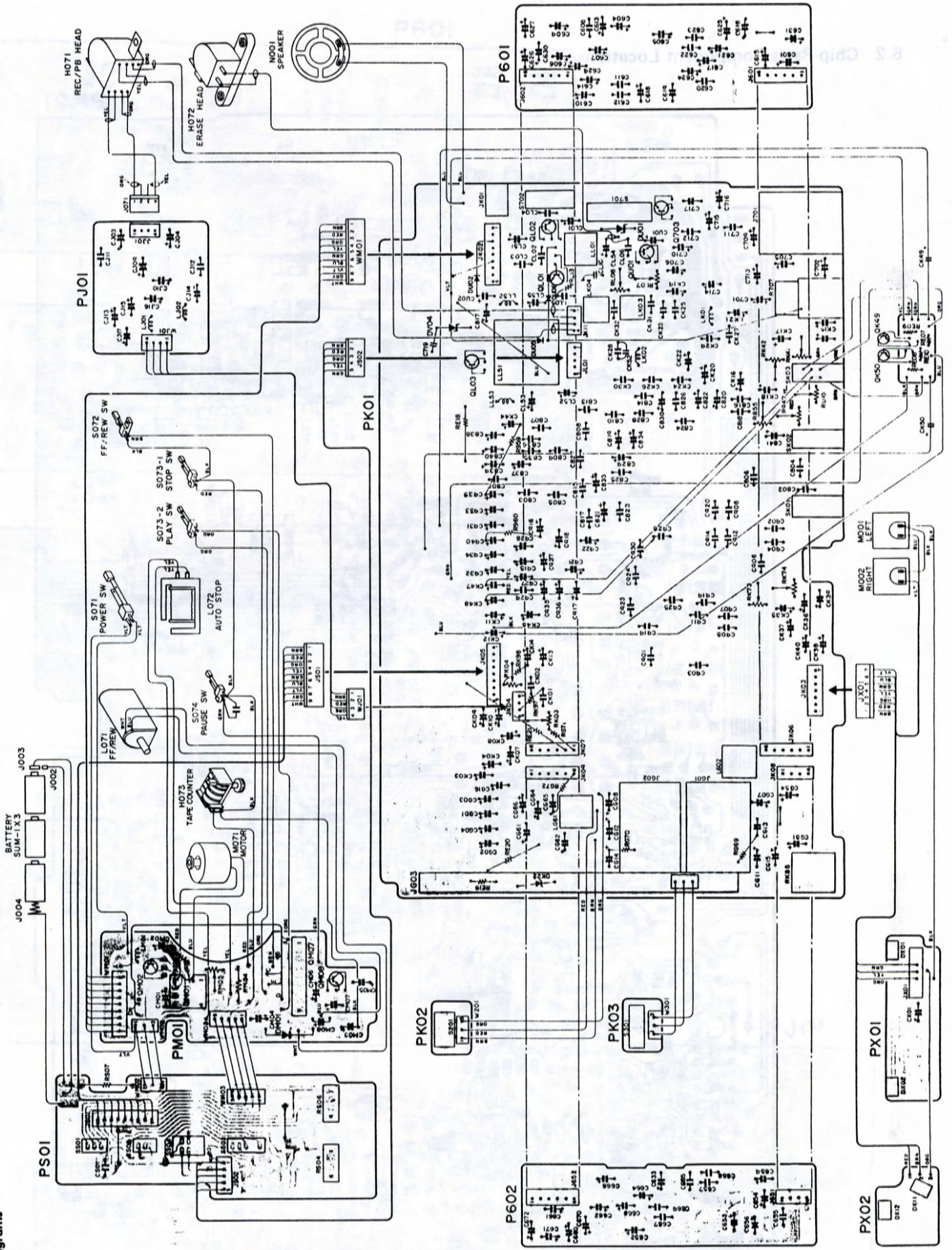
PK01



PM01

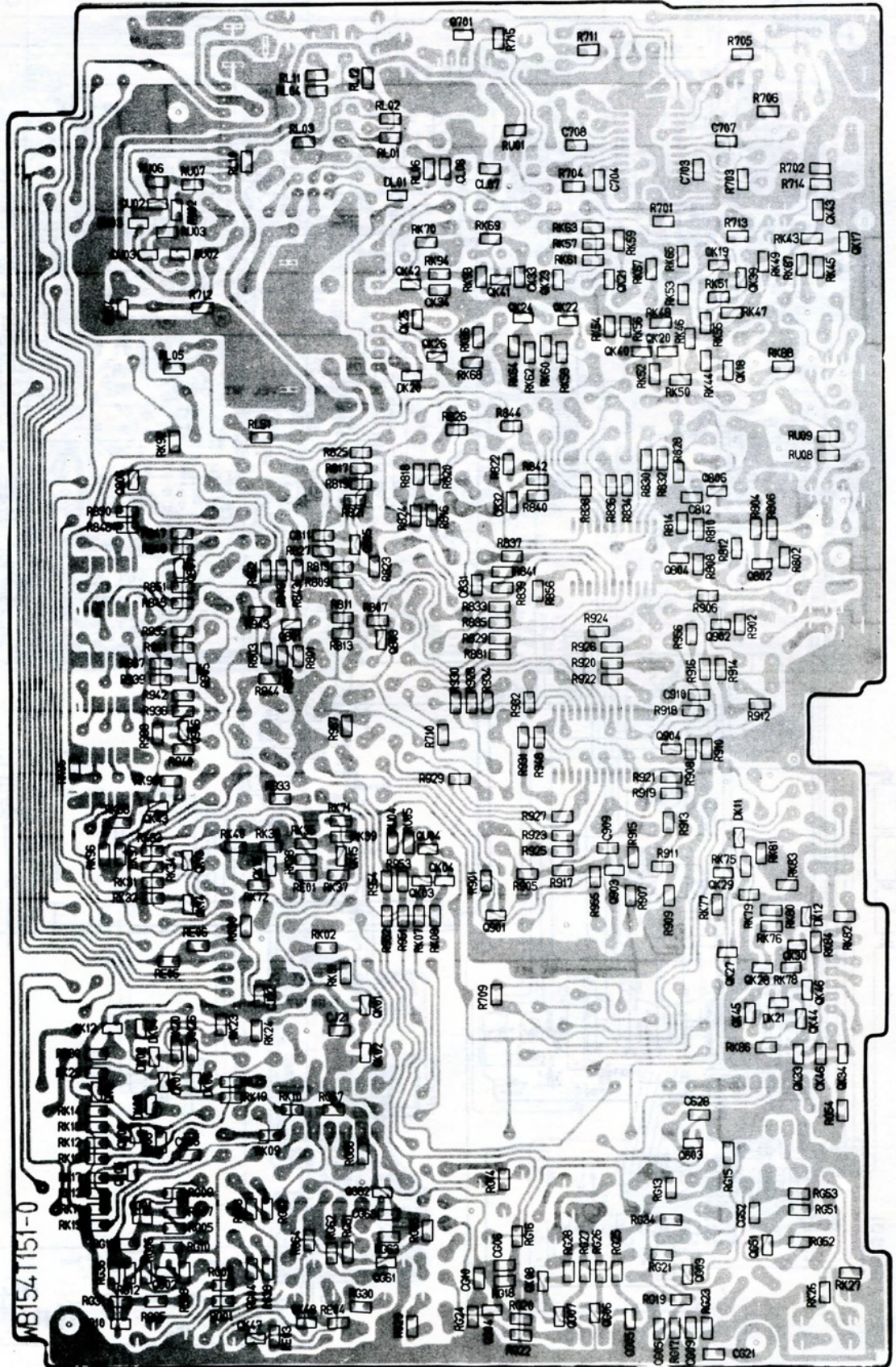


6. DIAGRAMS
6.1 Wiring Diagrams

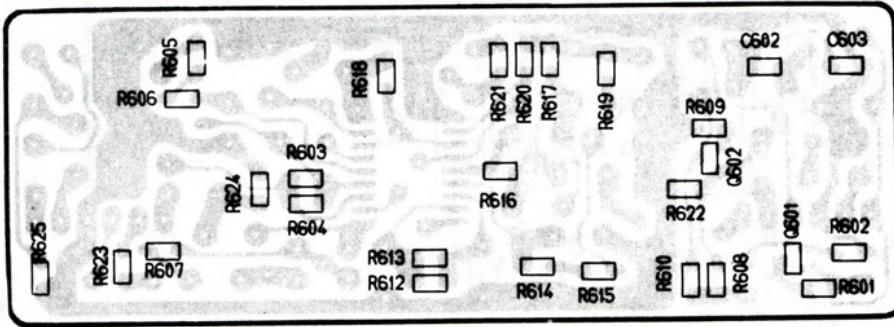


6.2 Chip Parts Component Locations

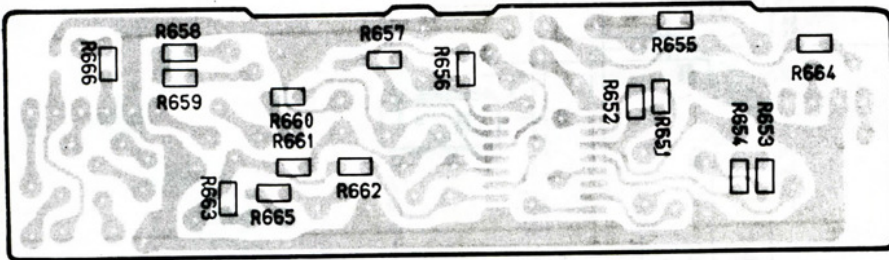
PK01



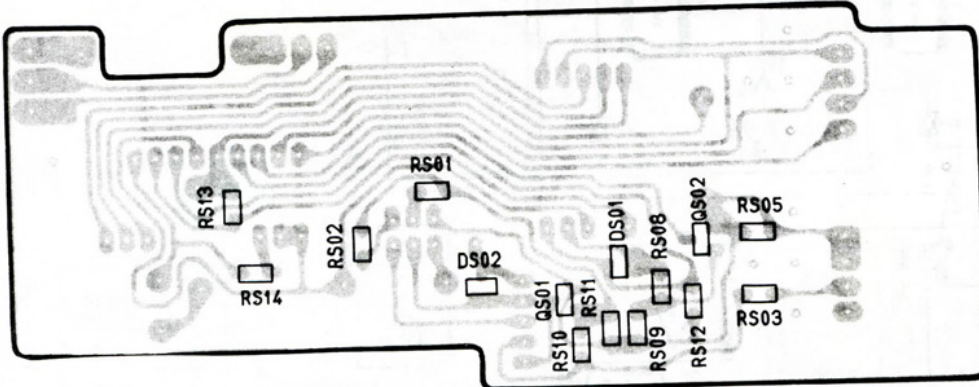
P601



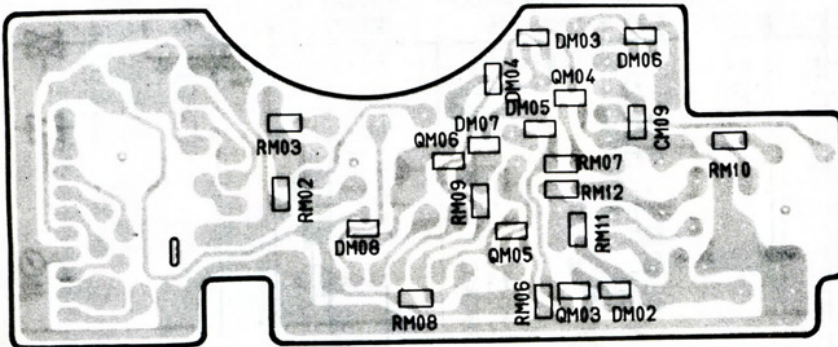
P602



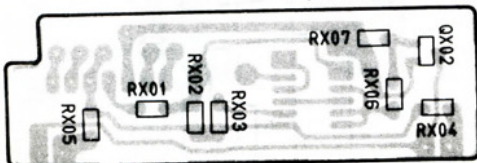
PS01



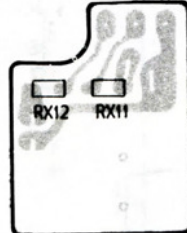
PM01



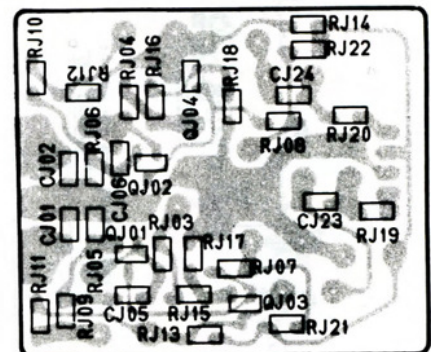
PX01



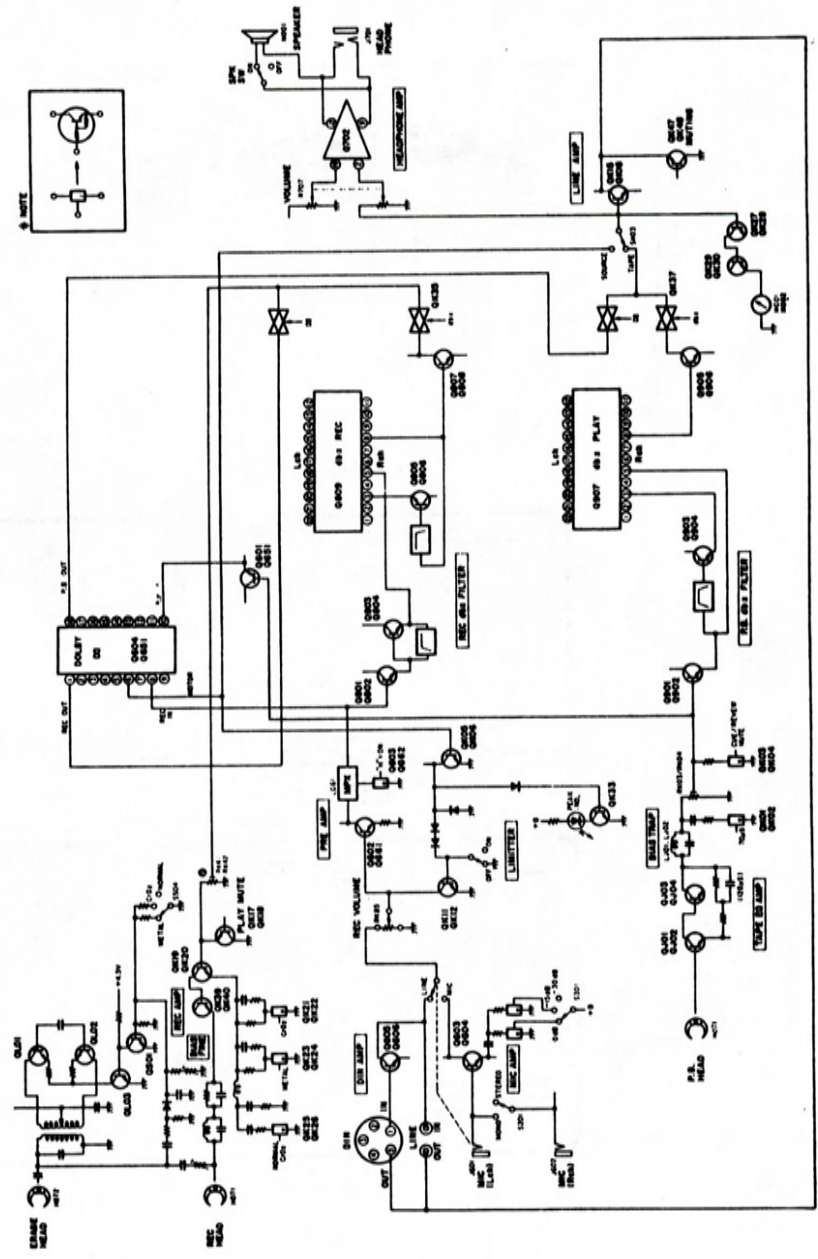
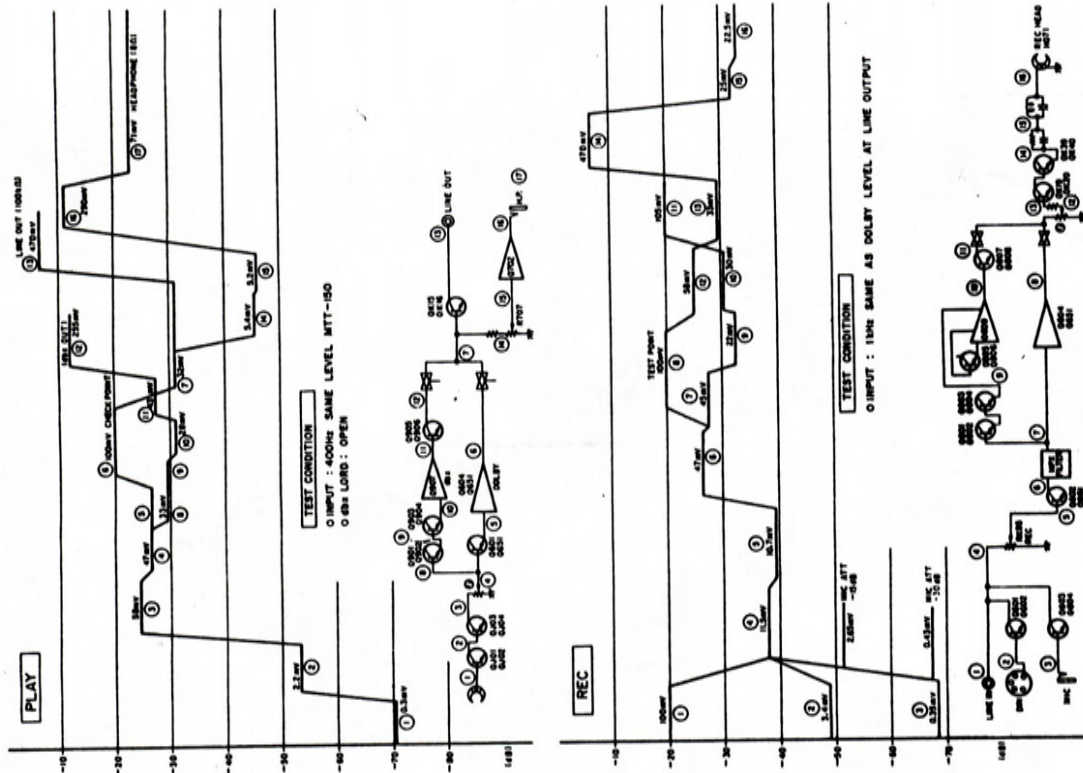
PX02



PJ01

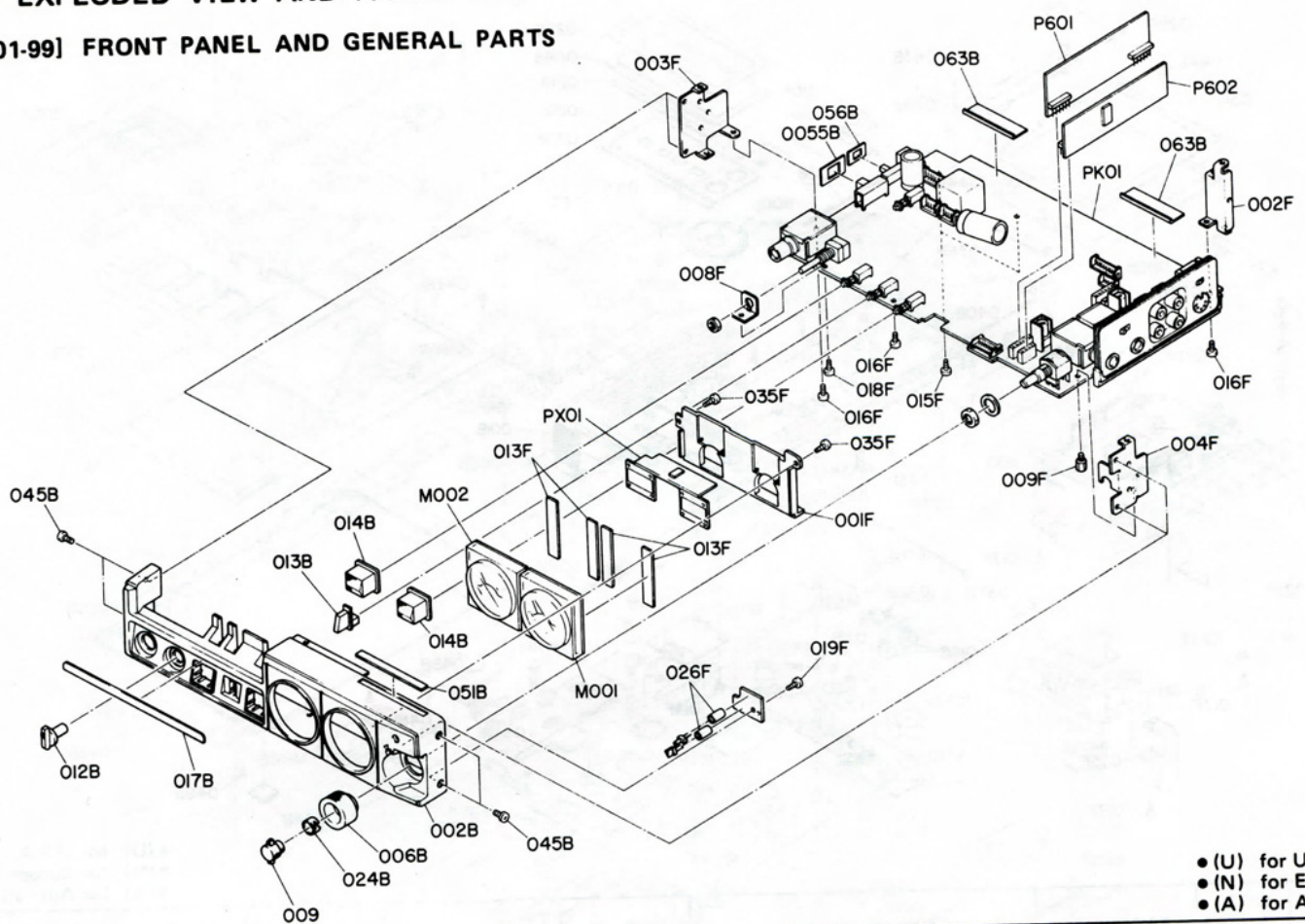


6.3 Block/Level Diagrams



7. EXPLODED VIEW AND PARTS LIST

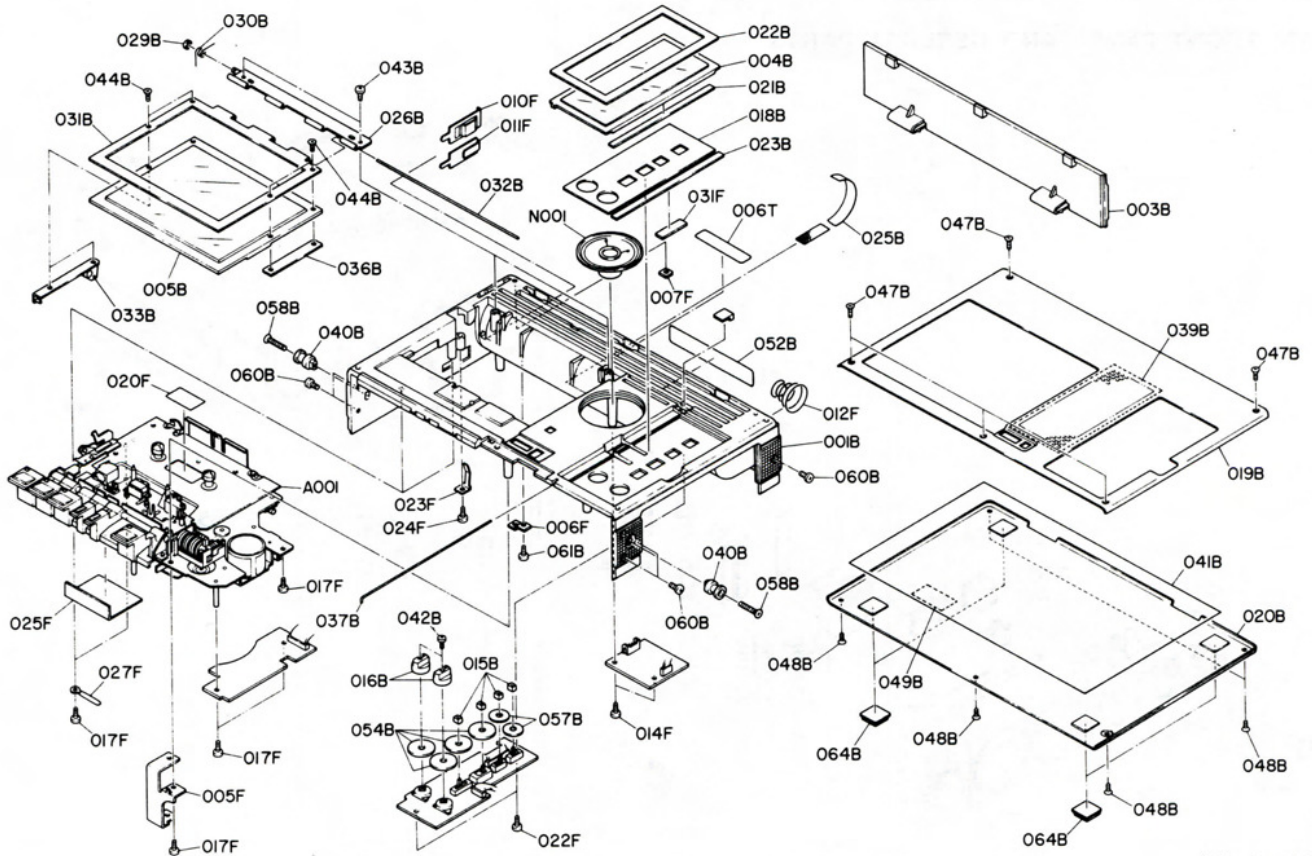
[C01-99] FRONT PANEL AND GENERAL PARTS



- (U) for U.S.A.
- (N) for Europe
- (A) for Australia

REF. DESIG.	Q'TY			PART NO.	DESCRIPTION	REF. DESIG.	Q'TY			PART NO.	DESCRIPTION
	U	N	A				U	N	A		
002B	1			153T064050	Case Front	001F	1	1	1	153T104020	Retainer Level Meter
002B	1	1	1	153T064030	Case Front	002F	1	1	1	153T160050	Bracket
006B	1	1	1	153T154500	Knob Assy Rec Volume (L)	003F	1	1	1	153T160060	Bracket
009B	1	1	1	153T154510	Knob Assy Rec Volume (R)	004F	1	1	1	153T160070	Bracket
012B	1	1	1	153T154030	Knob Monitor Volume	008F	1	1	1	153T104070	Retainer
013B	1	1	1	153T154040	Knob Batt./Light	009F	1	1	1	153T113010	Stud
014B	2	2	2	153T154050	Knob Monitor/Limiter	013F	4	4	4	153T118010	Spacer
017B	1	1	1	153T265040	Indicator	015F	2	2	2	51302608B0	P.H. Tapped Screw P2.6 x 8
024B	1	1	1	153T005010	Clamper	016F	3	3	3	51572606B0	P. Tapped Screw P2.6 x 6
045B	4	4	4	51102606S0	B.H.M. Screw B2.6 x 6	018F	1	1	1	51572604B0	P. Tapped Screw P2.6 x 4
051B	1	1	1	153T251010	Badge	019F	1	1	1	51300306B0	P.H. Tapped Screw P3 x 6
055B	1	1	1	153T303030	Mask	026F	2	2	2	153T055020	Collar
056B	1	1	1	153T303040	Mask	035F	2	2	2	51300308B0	P.H. Tapped Screw P3 x 8
063B	2	2	2	153T303070	Mask	M001	1	1	1	IM31040010	V.U. Meter L
						M002	1	1	1	IM31040020	V.U. Meter R

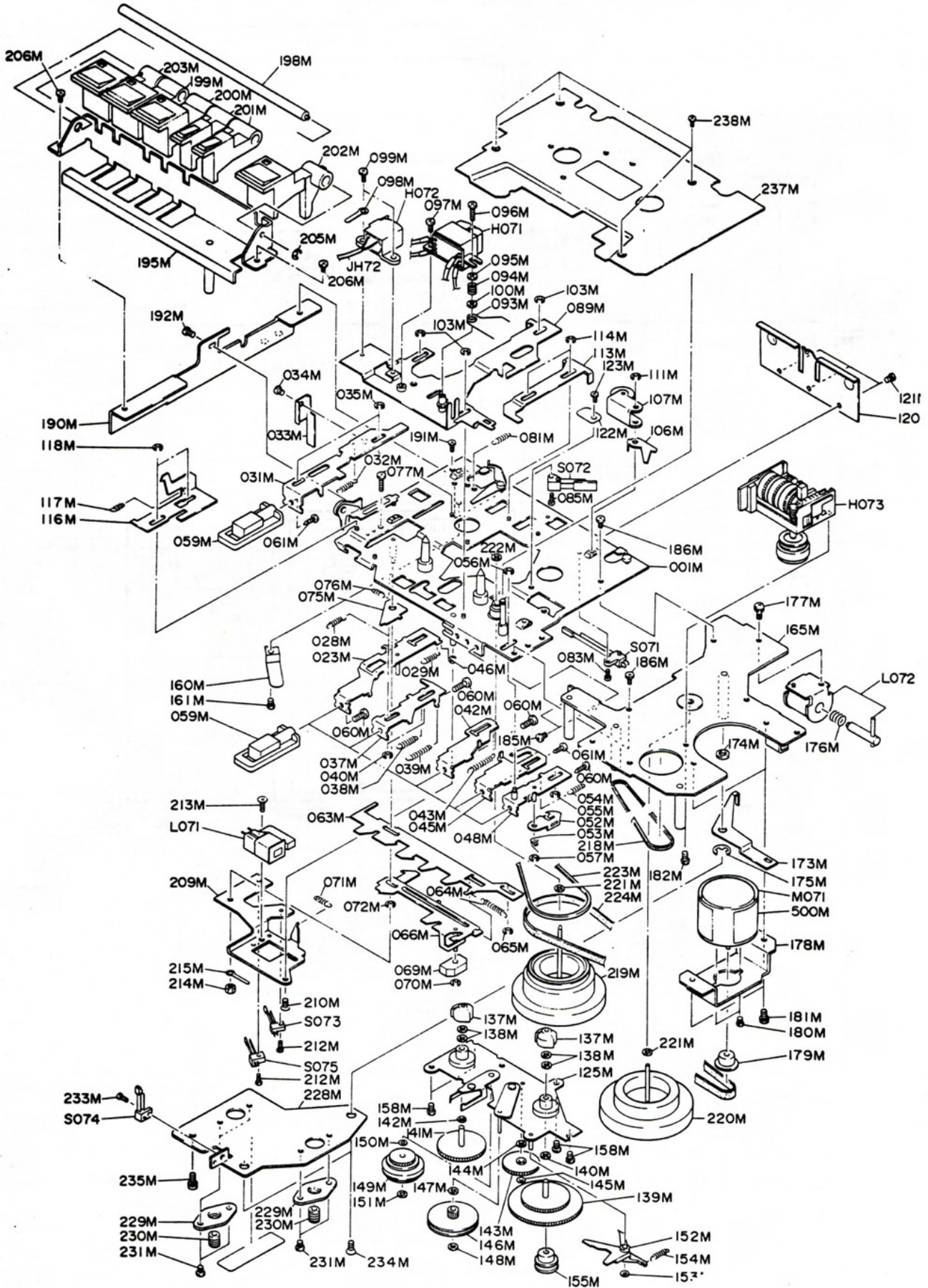
[C02-99] MAIN CASE AND GENERAL PARTS



• (U) for U.S.A.
 • (N) for Europe
 • (A) for Australia

REF. DESIG.	Q'TY			PART NO.	DESCRIPTION	REF. DESIG.	Q'TY			PART NO.	DESCRIPTION
	U	N	A				U	N	A		
001B	1			153T064040	Case Top	049B	1	1	1	4581861010	Label
001B		1	1	153T064010	Case Top	052B	1	1	1	153T861010	Label
003B	1	1	1	153T257050	Lid Battery	054B	4	4	4	153T303020	Mask
003B		1	1	153T257010	Lid Battery	057B	2	2	2	153T303060	Mask
004B	1	1	1	153T257020	Lid Control	058B	2	2	2	51040318S0	F.H.M. Screw F3 x 1.8
005B	1	1	1	153T257030	Lid Cassette	060B	5	5	5	51102606S0	B.H.M. Screw B2.6 x 6
015B	4	4	4	153T154060	Knob Slide Switch	061B	1	1	1	51300306B0	P.H. Tapped Screw P3
016B	2	2	2	153T154070	Knob Pitch/Bias Fine						
018B	1	1	1	153T265030	Indicator	064B	4	4	4	153T057000	Leg Cover
019B	1			153T053060	Cover Top	005F	1	1	1	153T160080	Bracket
019B		1	1	153T053050	Cover Top	006F	1	1	1	153T104050	Retainer
020B	1			153T053070	Cover Bottom	007F	1	1	1	153T104060	Retainer
020B		1	1	153T053040	Cover Bottom	010F	1	1	1	153T129010	Terminal
021B	1	1	1	153T305010	Magnet	011F	1	1	1	153T129020	Terminal
022B	1	1	1	153T063010	Escutcheon	012F	1	1	1	YL11010090	Terminal (-)
023B	1	1	1	153T060010	Clinger	014F	2	2	2	51062605A0	P.H.M. Screw P2.6 x 5
025B	1	1	1	153T007010	Strip	017F	8	8	8	51300308B0	P.H. Tapped Screw P3 x 8
026B	1	1	1	153T153500	Hinge Assembly	020F	1	1	1	251T274010	Reflector
029B	1	1	1	64002500A0	RG Ring, E	022F	2	2	2	51300306B0	P.H. Tapped Screw P3 x 6
030B	1	1	1	153T115090	Spring						
031B	1	1	1	153T153020	Hinge Cassette Cover	023F	1	1	1	153T115100	Spring
032B	1	1	1	153T112380	Shaft	024F	1	1	1	51300306B0	P.H. Tapped Screw P3 x 6
033B	1	1	1	153T104500	Retainer Assembly	025F	1	1	1	153T303080	Mask
036B	1	1	1	153T104040	Retainer	027F	2	2	2	4220005030	Clamper
037B	1	1	1	153T112370	Shaft Control Cover	031F	1	1	1	4123107070	Sheet
039B	1	1	1	153T107010	Sheet Top Cover	006T	1			2112265010	Indicator Serial No. Card
040B	2	2	2	153T055010	Collar Top Case	006T		1	1	2112265110	Indicator Serial No. Card
041B	1	1	1	153T120010	Insulator Bottom Cover	A001	1	1	1	154T304500	Mechanism Assembly
042B	2	2	2	51061704S0	P.H.M. Screw P1.7 x 4	N001	1	1	1	QK00408030	Speaker 8Ω
043B	2	2	2	51302606U0	P.H. Tapped Screw P2.6 x 6						
044B	4	4	4	51840204S0	F.H.M. Screw F2 x 4						
047B	5	5	5	51842607S0	F.H.M. Screw F2.6 x 7						
048B	5	5	5	51842605S0	F.H.M. Screw F2.6 x 5						

[P01-99] PARTS ASSEMBLED ON THE CHASSIS



10. SCHEMATIC DIAGRAM

Q601, Q803 ~ Q808, Q901 ~ Q906
 QG51, QK15, QK16, QK19, QK20
 QK39, QK40
 HX40601280
 2SD601 (R, S)

Q602, Q801, Q802
 QG01 ~ QG04, QG61
 HX410302A0
 2SD10301R, S1

Q603, Q704, QG05 ~ QG08
 QG62, QK01 ~ QK04
 QK21 ~ QK26, QK34
 QK44 ~ QK46, QM04, QM05
 QK49, QK50
 BA20002217
 DTC124 (S)

Q604, Q651
 HC101062010
 HA12048

Q701, QK13, QK14, QK17, QK18
 QK41, QK42, QK47, QK48
 QM03, QM06
 HX413281R0
 2SD13281R)

Q702
 HC1012060
 μPCI2606

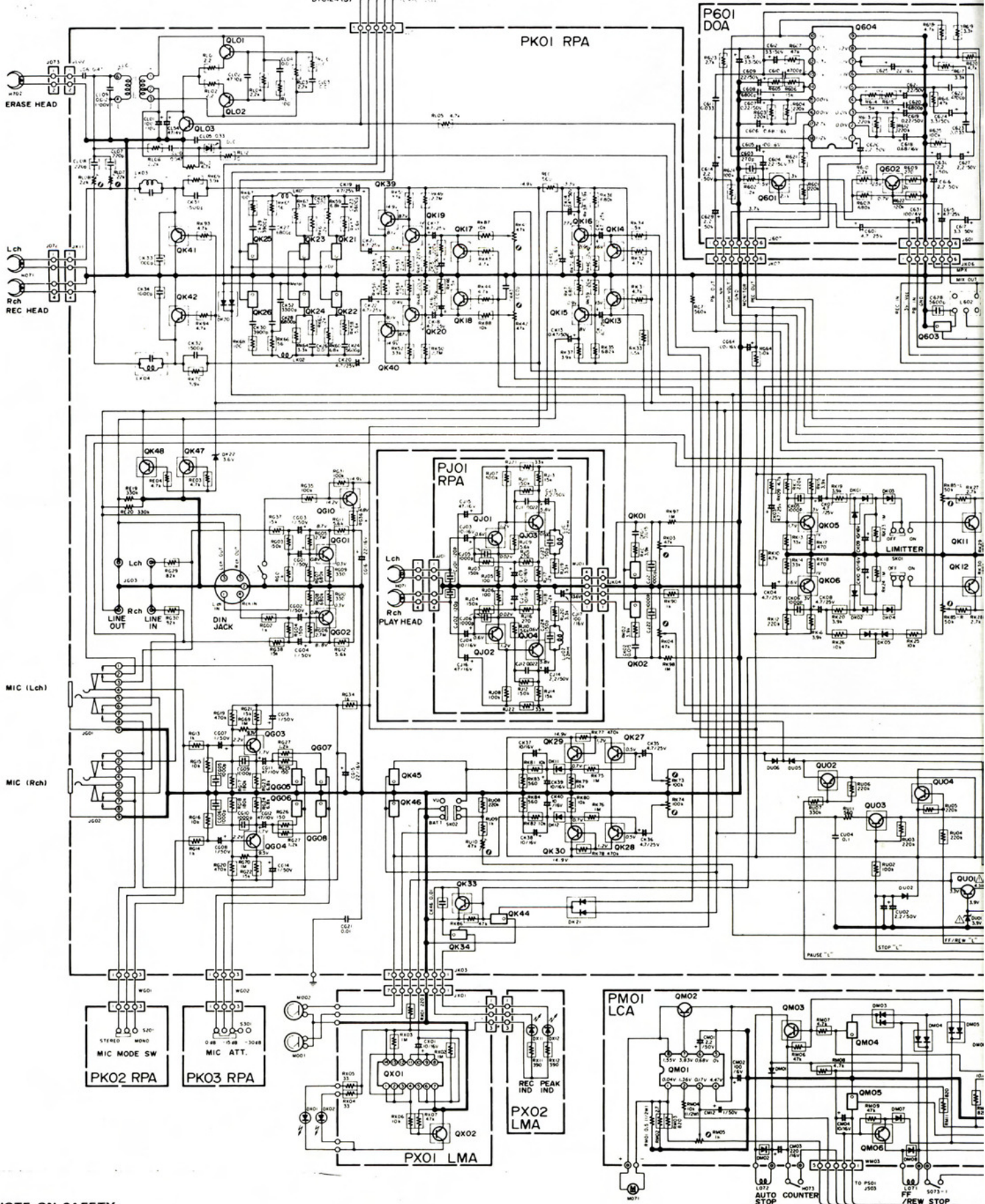
Q809, Q907
 HC10055020
 AN62915

QG10
 QU02 ~ QU04
 HX11621A2
 2SA1162 (G)


QJ01 ~ QJ04
 HX410301T0
 2SD10301T)

QK05, QK06, QK11, QK12
 QK27 ~ QK33
 QS01, QS02, QX02
 HX327121A0
 2SC2712 (G)

QK35, QK36
 HC4066
 4066

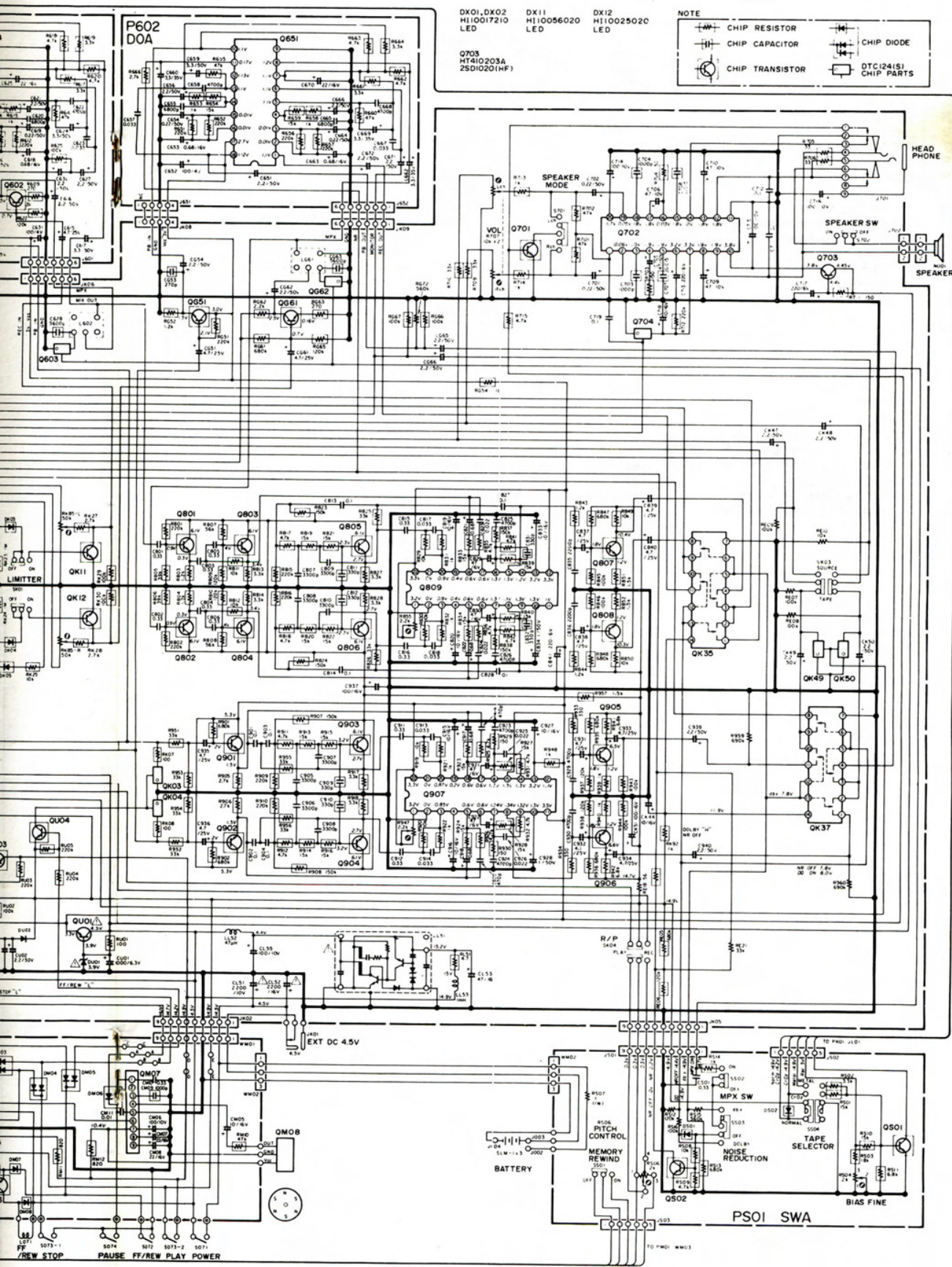


NOTE ON SAFETY:

Symbol  Fire or electrical shock hazard. Only original parts should be used to replace any part marked with symbol. Any other component substitution (other than original type), may increase risk of fire or electrical shock hazard.

MODEL CP430/PMD430

- Q5, QK06, QK11, QK12
- QK35, QK37
- Q601, Q602, QX02
- Q603, Q604
- Q605, Q606, Q607
- Q608, Q609, Q610
- Q611, Q612, Q613
- Q614, Q615, Q616
- Q617, Q618, Q619
- Q620, Q621, Q622
- Q623, Q624, Q625
- Q626, Q627, Q628
- Q629, Q630, Q631
- Q632, Q633, Q634
- Q635, Q636, Q637
- Q638, Q639, Q640
- Q641, Q642, Q643
- Q644, Q645, Q646
- Q647, Q648, Q649
- Q650, Q651, Q652
- Q653, Q654, Q655
- Q656, Q657, Q658
- Q659, Q660, Q661
- Q662, Q663, Q664
- Q665, Q666, Q667
- Q668, Q669, Q670
- Q671, Q672, Q673
- Q674, Q675, Q676
- Q677, Q678, Q679
- Q680, Q681, Q682
- Q683, Q684, Q685
- Q686, Q687, Q688
- Q689, Q690, Q691
- Q692, Q693, Q694
- Q695, Q696, Q697
- Q698, Q699, Q700
- Q701, Q702, Q703
- Q704, Q705, Q706
- Q707, Q708, Q709
- Q710, Q711, Q712
- Q713, Q714, Q715
- Q716, Q717, Q718
- Q719, Q720, Q721
- Q722, Q723, Q724
- Q725, Q726, Q727
- Q728, Q729, Q730
- Q731, Q732, Q733
- Q734, Q735, Q736
- Q737, Q738, Q739
- Q740, Q741, Q742
- Q743, Q744, Q745
- Q746, Q747, Q748
- Q749, Q750, Q751
- Q752, Q753, Q754
- Q755, Q756, Q757
- Q758, Q759, Q760
- Q761, Q762, Q763
- Q764, Q765, Q766
- Q767, Q768, Q769
- Q770, Q771, Q772
- Q773, Q774, Q775
- Q776, Q777, Q778
- Q779, Q780, Q781
- Q782, Q783, Q784
- Q785, Q786, Q787
- Q788, Q789, Q790
- Q791, Q792, Q793
- Q794, Q795, Q796
- Q797, Q798, Q799
- Q800, Q801, Q802
- Q803, Q804, Q805
- Q806, Q807, Q808
- Q809, Q810, Q811
- Q812, Q813, Q814
- Q815, Q816, Q817
- Q818, Q819, Q820
- Q821, Q822, Q823
- Q824, Q825, Q826
- Q827, Q828, Q829
- Q830, Q831, Q832
- Q833, Q834, Q835
- Q836, Q837, Q838
- Q839, Q840, Q841
- Q842, Q843, Q844
- Q845, Q846, Q847
- Q848, Q849, Q850
- Q851, Q852, Q853
- Q854, Q855, Q856
- Q857, Q858, Q859
- Q860, Q861, Q862
- Q863, Q864, Q865
- Q866, Q867, Q868
- Q869, Q870, Q871
- Q872, Q873, Q874
- Q875, Q876, Q877
- Q878, Q879, Q880
- Q881, Q882, Q883
- Q884, Q885, Q886
- Q887, Q888, Q889
- Q890, Q891, Q892
- Q893, Q894, Q895
- Q896, Q897, Q898
- Q899, Q900, Q901
- Q902, Q903, Q904
- Q905, Q906, Q907
- Q908, Q909, Q910
- Q911, Q912, Q913
- Q914, Q915, Q916
- Q917, Q918, Q919
- Q920, Q921, Q922
- Q923, Q924, Q925
- Q926, Q927, Q928
- Q929, Q930, Q931
- Q932, Q933, Q934
- Q935, Q936, Q937
- Q938, Q939, Q940
- Q941, Q942, Q943
- Q944, Q945, Q946
- Q947, Q948, Q949
- Q950, Q951, Q952
- Q953, Q954, Q955
- Q956, Q957, Q958
- Q959, Q960, Q961
- Q962, Q963, Q964
- Q965, Q966, Q967
- Q968, Q969, Q970
- Q971, Q972, Q973
- Q974, Q975, Q976
- Q977, Q978, Q979
- Q980, Q981, Q982
- Q983, Q984, Q985
- Q986, Q987, Q988
- Q989, Q990, Q991
- Q992, Q993, Q994
- Q995, Q996, Q997
- Q998, Q999, Q1000



NOTE

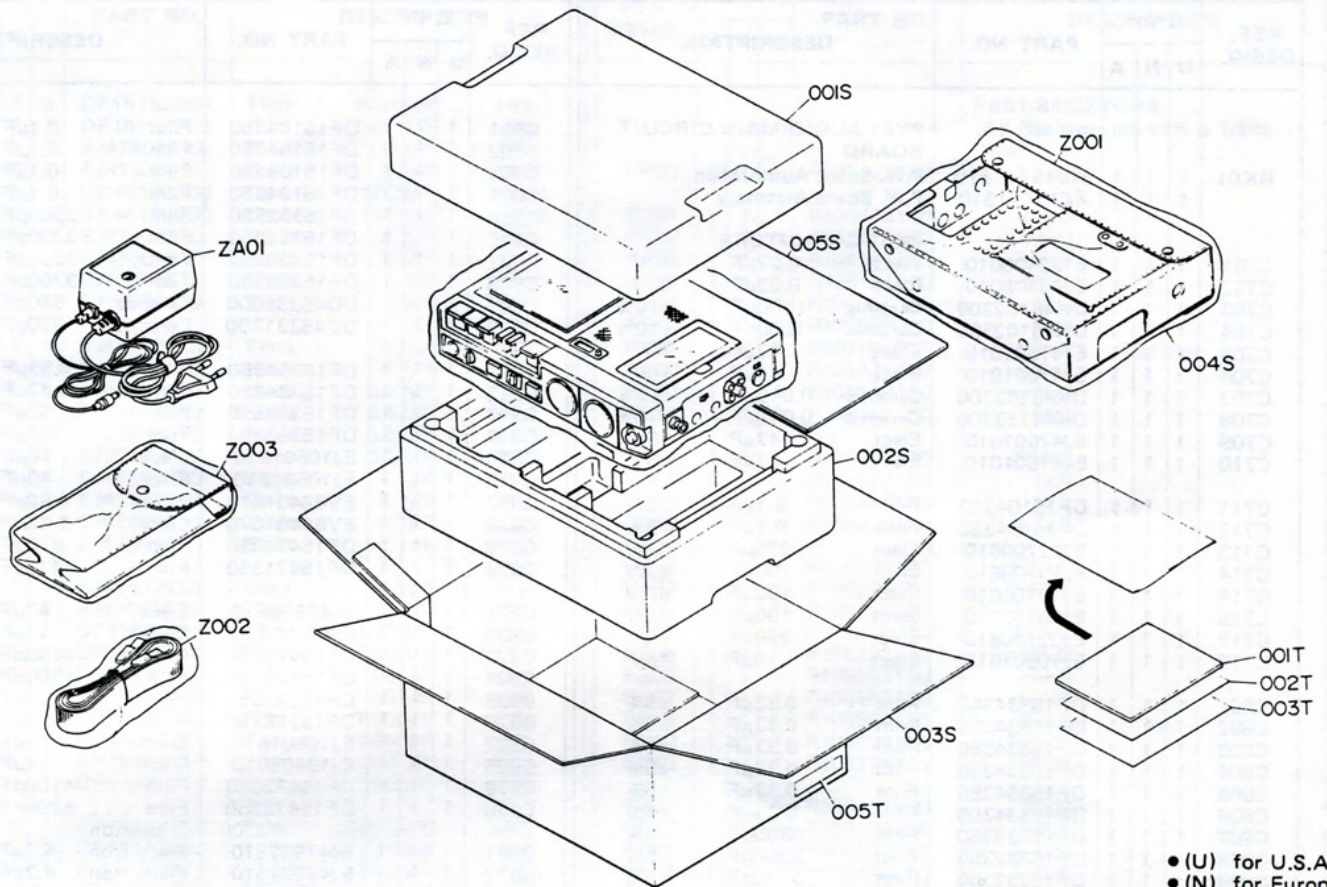
- CHIP RESISTOR
- CHIP CAPACITOR
- CHIP DIODE
- CHIP TRANSISTOR
- DTC(24(S) CHIP PARTS

COMPONENT IDENTIFICATION

- 25D601(R,S)** 25A1162(G)
- Q601, Q803~Q808** Q610
- Q602~Q606, Q651** Q602~Q604
- QK15, QK16**
- QK19, QK20**
- QK30, QK40**
- 25D1030(I,S)**
- Q602, Q901~Q904**
- Q661, Q801, Q802**
- 25D1328(R)**
- Q701, QK13, QK14**
- QK17, QK18, QK41**
- QK42, QK47, QK48**
- QK03, QM06**
- 25C2712(G)**
- QK05, QK06**
- QK11, QK12**
- QK27~QK33**
- Q501, Q502, QX02**
- 25D1030(I,T)**
- QJ01~QJ04**
- DTC(24(S))**
- Q603, Q704**
- Q605~Q608, Q662**
- QK01~QK04**
- QK21~QK26, QK34**
- QK44~QK46**
- QM04, QM05**
- QK49, QK50**
- 25C200(L)** 25A966(I)
- Q601, Q602**
- 25C1383(R)**
- QLO3**
- 25C1846(I,S)**
- QU01**
- TOP VIEW**
- 20** μ PCI2606
- Q702**
- TOP VIEW**
- 10**
- HA12048**
- Q604, Q651**
- TOP VIEW**
- 22**
- AN6291S**
- Q809, Q907**
- TOP VIEW**
- 14**
- 4066, QK37**
- 4011**
- QK35, QK37**
- QX01**
- TOP VIEW**
- 5**
- AN6612**
- QM01**
- FRONT VIEW**
- 8A337**
- QM07**
- VG0**
- DN6383**
- QM08**
- 25D1020(IHF)**
- Q703**

Components and wiring are subject to change for modification without notice.

[H01-99] PACKING MATERIALS



- (U) for U.S.A.
- (N) for Europe
- (A) for Australia

REF. DESIG.	Q'TY			PART NO.	DESCRIPTION	REF. DESIG.	Q'TY			PART NO.	DESCRIPTION
	U	N	A				U	N	A		
001S	1	1	1	153T809010	Cushion Top	Z001	1	1	1	153T831010	Carrying Case
002S	1	1	1	153T809020	Cushion Bottom	Z002	1	1	1	153T156010	Strap
003S	1			153T801020	Packing Case	Z003	1	1	1	153T831020	Carrying Case
003S		1	1	154T801010	Packing Case						
004S	1	1	1	9013025010	Polyethy Bag	ZA01			1	AA90005020	A.C. Adaptor
005S	1	1	1	153T803010	Partitioner	ZA01		1		AA90005010	A.C. Adaptor
						ZA01	1			AA12005010	A.C. Adaptor
001T		1	1	153T851310	User Manual						
001T	1			153T851210	User Manual						
002T		1	1	154T851320	User Manual Spec Flysheet						
002T	1			154T851220	User Manual Spec Flysheet						
003T			1	9631000090	Warranty Card						
003T		1		154T856010	Circuit Diagram						
003T	1			2818854020	Warranty Card						
005T	1			9526019020	Serial No. Card						
005T		2		9526019060	Serial No. Card						
005T			3	9526019030	Serial No. Card						

- (U) for U.S.A.
- (N) for Europe
- (A) for Australia

REF. DESIG.	Q'TY			PART NO.	DESCRIPTION	REF. DESIG.	Q'TY			PART NO.	DESCRIPTION	
	U	N	A				U	N	A			
CK01	1	1	1	DF15153350	Film 0.015μF ±5%						PK01-RESISTORS (All Resistors are ±5% & 1/8W Chip)	
CK02	1	1	1	DF15153350	Film 0.015μF ±5%							
CK03	1	1	1	EJ47502510	Elect 4.7μF 25V	R602	1	1	1	RI05122180		1.2kΩ
CK04	1	1	1	EJ47502510	Elect 4.7μF 25V							
CK05	1	1	1	DK46102300	Ceramic 1000pF ±10%							
CK06	1	1	1	DK46102300	Ceramic 1000pF ±10%	R701	1	1	1	RI05473180		47kΩ
CK07	1	1	1	EJ47502510	Elect 4.7μF 25V	R702	1	1	1	RI05473180		47kΩ
CK08	1	1	1	EJ47502510	Elect 4.7μF 25V	R703	1	1	1	RI05151180		150Ω
CK09	1	1	1	EJ10601610	Elect 10μF 16V	R704	1	1	1	RI05151180		150Ω
CK10	1	1	1	EJ10601610	Elect 10μF 16V	R705	1	1	1	RI05330180		33Ω
						R706	1	1	1	RI05330180	33Ω	
CK11	1	1	1	EJ47502510	Elect 4.7μF 25V	R707	1	1	1	RM01030240	10kΩ	
CK12	1	1	1	EJ47502510	Elect 4.7μF 25V	R709	1	1	1	RI05333180	33kΩ	
CK13	1	1	1	EJ47405010	Elect 0.47μF 50V	R710	1	1	1	RI05333180	33kΩ	
CK14	1	1	1	EJ47405010	Elect 0.47μF 50V	R711	1	1	1	RI05151180	150Ω	
CK15	1	1	1	EJ22405010	Elect 0.22μF 50V						Variable	
CK16	1	1	1	EJ22405010	Elect 0.22μF 50V	R712	1	1	1	RI05224180		220kΩ
CK17	1	1	1	EJ47502510	Elect 4.7μF 25V	R713	1	1	1	RI05102180		1kΩ
CK18	1	1	1	EJ47502510	Elect 4.7μF 25V	R714	1	1	1	RI05102180		1kΩ
CK19	1	1	1	EJ47502510	Elect 4.7μF 25V	R715	1	1	1	RI05472180		4.7kΩ
CK20	1	1	1	EJ47502510	Elect 4.7μF 25V							
CK21	1	1	1	EJ47502510	Elect 4.7μF 25V	R801	1	1	1	RI05224180		220kΩ
CK22	1	1	1	EJ47502510	Elect 4.7μF 25V	R802	1	1	1	RI05224180		220kΩ
CK23	1	1	1	DF15562350	Film 5600pF ±5%	R803	1	1	1	RI05122180		1.2kΩ
CK24	1	1	1	DF15562350	Film 5600pF ±5%	R804	1	1	1	RI05122180		1.2kΩ
CK25	1	1	1	DF15103350	Film 0.01μF ±5%	R805	1	1	1	RI05393180	39kΩ	
CK26	1	1	1	DF15103350	Film 0.01μF ±5%	R806	1	1	1	RI05393180	39kΩ	
CK27	1	1	1	DF15682350	Film 6800pF ±5%	R807	1	1	1	RI05563180	56kΩ	
CK28	1	1	1	DF15682350	Film 6800pF ±5%	R808	1	1	1	RI05563180	56kΩ	
CK29	1	1	1	DF15392350	Film 3900pF ±5%	R809	1	1	1	RI05124180	120kΩ	
CK30	1	1	1	DF15392350	Film 3900pF ±5%	R810	1	1	1	RI05124180	120kΩ	
						R811	1	1	1	RI05103180	10kΩ	
CK31	1	1	1	DF15152350	Film 0.0015μF ±5%	R812	1	1	1	RI05103180	10kΩ	
CK32	1	1	1	DF15152350	Film 0.0015μF ±5%	R813	1	1	1	RI05332180	3.3kΩ	
CK33	1	1	1	DD46102300	Ceramic 1000pF ±10%	R814	1	1	1	RI05332180	3.3kΩ	
CK34	1	1	1	DD46102300	Ceramic 1000pF ±10%	R815	1	1	1	RI05224180	220kΩ	
CK35	1	1	1	EJ47502510	Elect 4.7μF 25V	R816	1	1	1	RI05224180	220kΩ	
CK36	1	1	1	EJ47502510	Elect 4.7μF 25V	R817	1	1	1	RI05472180	4.7kΩ	
CK37	1	1	1	EJ10601610	Elect 10μF 16V	R818	1	1	1	RI05472180	4.7kΩ	
CK38	1	1	1	EJ10601610	Elect 10μF 16V	R819	1	1	1	RI05153180	15kΩ	
CK39	1	1	1	EJ10601610	Elect 10μF 16V	R820	1	1	1	RI05153180	15kΩ	
CK40	1	1	1	EJ10601610	Elect 10μF 16V							
						R821	1	1	1	RI05153180	15kΩ	
CK43	1	1	1	DK46102300	Ceramic 1000pF ±10%	R822	1	1	1	RI05153180	15kΩ	
CK44	1	1	1	EJ10601610	Elect 10μF 16V	R823	1	1	1	RI05154180	150kΩ	
CK45	1	1	1	EJ10701010	Elect 100μF 10V	R824	1	1	1	RI05154180	150kΩ	
CK46	1	1	1	DK46103300	Ceramic 0.01μF ±10%	R825	1	1	1	RI05333180	33kΩ	
CK47	1	1	1	EJ22505010	Elect 2.2μF 50V	R826	1	1	1	RI05333180	33kΩ	
CK48	1	1	1	EJ22505010	Elect 2.2μF 50V	R827	1	1	1	RI05332180	3.3kΩ	
CK49	1	1	1	EJ22505010	Elect 2.2μF 50V	R828	1	1	1	RI05332180	3.3kΩ	
CK50	1	1	1	EJ22505010	Elect 2.2μF 50V	R829	1	1	1	RI05103180	10kΩ	
CK51	1	1	1	EA10701610	Elect 100μF 16V	R830	1	1	1	RI05103180	10kΩ	
						R831	1	1	1	RI05102180	1kΩ	
CL01	1	1	1	EJ10701010	Elect 100μF 10V	R832	1	1	1	RI05102180	1kΩ	
CL02	1	1	1	DF15472350	Film 4700pF ±5%	R833	1	1	1	RI05153180	15kΩ	
CL03	1	1	1	DF15103350	Film 0.01μF ±5%	R834	1	1	1	RI05153180	15kΩ	
CL04	1	1	1	DF15103350	Film 0.01μF ±5%	R835	1	1	1	RI05472180	4.7kΩ	
CL05	1	1	1	DF15334350	Film 0.33μF ±5%	R836	1	1	1	RI05472180	4.7kΩ	
CL06	1	1	1	DF15474350	Film 0.47μF ±5%	R837	1	1	1	RI05151180	150Ω	
CL07	1	1	1	DD45221300	Ceramic 220pF ±5%	R838	1	1	1	RI05151180	150Ω	
CL08	1	1	1	DD45221300	Ceramic 220pF ±5%	R839	1	1	1	RI05153180	15kΩ	
CL09	1	1	1	DF15123550	Film 0.012μF ±5%	R840	1	1	1	RI05153180	15kΩ	
ΔCL51	1	1	1	EA22801010	Elect 2200μF 10V							
						R841	1	1	1	RI05472180	4.7kΩ	
ΔCL52	1	1	1	EA22801610	Elect 2200μF 16V	R842	1	1	1	RI05472180	4.7kΩ	
CL53	1	1	1	EJ47601610	Elect 47μF 16V	R843	1	1	1	RI05122180	1.2kΩ	
CL54	1	1	1	EJ47600410	Elect 47μF 4V	R844	1	1	1	RI05122180	1.2kΩ	
CL55	1	1	1	EJ10701010	Elect 100μF 10V	R845	1	1	1	RI05104180	100kΩ	
						R846	1	1	1	RI05104180	100kΩ	
CU01	1	1	1	EA10800610	Elect 1000μF 6.3V	R847	1	1	1	RI05684180	680kΩ	
CU02	1	1	1	EJ47502510	Elect 4.7μF 25V	R848	1	1	1	RI05684180	680kΩ	
CU04	1	1	1	DF15104350	Film 0.1μF ±5%	R849	1	1	1	RI05103180	10kΩ	
CU05	1	1	1	EJ22505010	Elect 2.2μF 50V	R850	1	1	1	RI05103180	10kΩ	

- (U) for U.S.A.
- (N) for Europe
- (A) for Australia

REF. DESIG.	Q'TY			PART NO.	DESCRIPTION	REF. DESIG.	Q'TY			PART NO.	DESCRIPTION
	U	N	A				U	N	A		
R851	1	1	1	RI05272180	2.7kΩ	RG01	1	1	1	RI05102180	1kΩ
R852	1	1	1	RI05272180	2.7kΩ	RG02	1	1	1	RI05102180	1kΩ
R855	1	1	1	RA02220600	2.2kΩ	RG03	1	1	1	RI05154180	150kΩ
R856	1	1	1	RI05102180	1kΩ	RG04	1	1	1	RI05154180	150kΩ
R901	1	1	1	RI05684180	680kΩ	RG05	1	1	1	RI05275180	2.7MΩ
R902	1	1	1	RI05684180	680kΩ	RG06	1	1	1	RI05275180	2.7MΩ
R905	1	1	1	RI05272180	2.7kΩ	RG07	1	1	1	RI05684180	680kΩ
R906	1	1	1	RI05272180	2.7kΩ	RG08	1	1	1	RI05684180	680kΩ
R907	1	1	1	RI05154180	150kΩ	RG09	1	1	1	RI05221180	220Ω
R908	1	1	1	RI05154180	150kΩ	RG10	1	1	1	RI05221180	220Ω
R909	1	1	1	RI05224180	220kΩ	RG11	1	1	1	RI05562180	5.6kΩ
R910	1	1	1	RI05224180	220kΩ	RG12	1	1	1	RI05562180	5.6kΩ
R911	1	1	1	RI05472180	4.7kΩ	RG13	1	1	1	RI05102180	1.2kΩ
R912	1	1	1	RI05472180	4.7kΩ	RG14	1	1	1	RI05102180	1.2kΩ
R913	1	1	1	RI05153180	15kΩ	RG15	1	1	1	RI05103180	10kΩ
R914	1	1	1	RI05153180	15kΩ	RG16	1	1	1	RI05103180	10kΩ
R915	1	1	1	RI05153180	15kΩ	RG17	1	1	1	RI05184180	180kΩ
R916	1	1	1	RI05153180	15kΩ	RG18	1	1	1	RI05184180	180kΩ
R917	1	1	1	RI05332180	3.3kΩ	RG19	1	1	1	RI05474180	470kΩ
R918	1	1	1	RI05332180	3.3kΩ	RG20	1	1	1	RI05474180	470kΩ
R919	1	1	1	RI05103180	10kΩ	RG21	1	1	1	RI05153180	15kΩ
R920	1	1	1	RI05103180	10kΩ	RG22	1	1	1	RI05153180	15kΩ
R921	1	1	1	RI05102180	1kΩ	RG23	1	1	1	RI05682180	6.8kΩ
R922	1	1	1	RI05102180	1kΩ	RG24	1	1	1	RI05682180	6.8kΩ
R923	1	1	1	RI05153180	15kΩ	RG25	1	1	1	RI05151180	150Ω
R924	1	1	1	RI05153180	15kΩ	RG26	1	1	1	RI05151180	150Ω
R925	1	1	1	RI05472180	4.7kΩ	RG27	1	1	1	RI05122180	1.2kΩ
R926	1	1	1	RI05472180	4.7kΩ	RG28	1	1	1	RI05122180	1.2kΩ
R927	1	1	1	RI05153180	15kΩ	RG29	1	1	1	RI05823180	82kΩ
R928	1	1	1	RI05153180	15kΩ	RG30	1	1	1	RI05823180	82kΩ
R929	1	1	1	RI05151180	150Ω	RG31	1	1	1	RI05104180	100kΩ
R930	1	1	1	RI05151180	150Ω	RG34	1	1	1	RI05102180	1kΩ
R931	1	1	1	RI05472180	4.7kΩ	RG35	1	1	1	RI05104180	100kΩ
R932	1	1	1	RI05472180	4.7kΩ	RG36	1	1	1	RI05102180	1kΩ
R933	1	1	1	RI05331180	330Ω	RG37	1	1	1	RI05153180	15kΩ
R934	1	1	1	RI05331180	330Ω	RG38	1	1	1	RI05153180	15kΩ
R935	1	1	1	RI05684180	680kΩ	RG51	1	1	1	RI05224180	220kΩ
R936	1	1	1	RI05684180	680kΩ	RG52	1	1	1	RI05122180	1.2kΩ
R937	1	1	1	RI05124180	120kΩ	RG54	1	1	1	RI05100180	10Ω
R938	1	1	1	RI05124180	120kΩ	RG61	1	1	1	RI05684180	680kΩ
R939	1	1	1	RI05102180	1kΩ	RG62	1	1	1	RI05222180	2.2kΩ
R940	1	1	1	RI05102180	1kΩ	RG63	1	1	1	RI05271180	270Ω
R941	1	1	1	RI05682180	6.8kΩ	RG64	1	1	1	RI05103180	10kΩ
R942	1	1	1	RI05682180	6.8kΩ	RG65	1	1	1	RI05124180	120kΩ
R943	1	1	1	RI05104180	100kΩ	RG66	1	1	1	RI05104180	100kΩ
R944	1	1	1	RI05104180	100kΩ	RG67	1	1	1	RI05104180	100kΩ
R947	1	1	1	RA02220600	2.2kΩ	RG68	1	1	1	RI05000180	0Ω
R948	1	1	1	RI05102180	1kΩ	RK01	1	1	1	RI05392180	3.9kΩ
R951	1	1	1	RI05333180	33kΩ	RK02	1	1	1	RI05392180	3.9kΩ
R952	1	1	1	RI05333180	33kΩ	RK03	1	1	1	RA04730600	47kΩ
R953	1	1	1	RI05104180	100kΩ	RK04	1	1	1	RA04730600	47kΩ
R954	1	1	1	RI05104180	100kΩ	RK07	1	1	1	RI05101180	100Ω
R955	1	1	1	RI05333180	33kΩ	RK08	1	1	1	RI05101180	100Ω
R956	1	1	1	RI05333180	33kΩ	RK09	1	1	1	RI05472180	4.7kΩ
R957	1	1	1	RI05152180	1.5kΩ	RK10	1	1	1	RI05472180	4.7kΩ
RE01	1	1	1	RI05561180	560Ω	RK11	1	1	1	RI05224180	220kΩ
RE03	1	1	1	RI05472180	4.7kΩ	RK12	1	1	1	RI05224180	220kΩ
RE04	1	1	1	GD05472160	4.7kΩ						
RE05	1	1	1	RI05684180	680kΩ						
RE06	1	1	1	RI05124180	120kΩ						
RE11	4	4	4	GD05684180	680kΩ						
RE14	1	1	1	GD05105180	1MΩ						
RE15	1	1	1	GD05105180	1MΩ						
RE16	1	1	1	GD05333180	33kΩ						
RE17	1	1	1	GD05333180	33kΩ						
RE18	1	1	1	GD05560160	56Ω						1/6W
RE19	1	1	1	GD05334160	330kΩ						1/6W
RE20	1	1	1	GD05334160	330kΩ						1/6W

• (U) for U.S.A.
 • (N) for Europe
 • (A) for Australia

REF. DESIG.	Q'TY			PART NO.	DESCRIPTION	REF. DESIG.	Q'TY			PART NO.	DESCRIPTION
	U	N	A				U	N	A		
RK13	1	1	1	RI05333180	33kΩ	RK75	1	1	1	RI05105180	1MΩ
RK14	1	1	1	RI05333180	33kΩ	RK76	1	1	1	RI05105180	1MΩ
RK15	1	1	1	RI05392180	3.9kΩ	RK77	1	1	1	RI05474180	470kΩ
RK16	1	1	1	RI05392180	3.9kΩ	RK78	1	1	1	RI05474180	470kΩ
RK17	1	1	1	RI05331180	330Ω	RK79	1	1	1	RI05103180	10kΩ
RK18	1	1	1	RI05331180	330Ω	RK80	1	1	1	RI05103180	10kΩ
RK19	1	1	1	RI05392180	3.9kΩ	RK81	1	1	1	RI05103180	10kΩ
RK20	1	1	1	RI05392180	3.9kΩ	RK82	1	1	1	RI05103180	10kΩ
RK23	1	1	1	RI05105180	1MΩ	RK83	1	1	1	RI05561180	560Ω
RK24	1	1	1	RI05105180	1MΩ	RK84	1	1	1	RI05561180	560Ω
RK25	1	1	1	RI05103180	10kΩ	RK85	1	1	1	RD05030190	50kΩ Variable
RK26	1	1	1	RI05103180	10kΩ	RK86	1	1	1	RI05473180	47kΩ
RK27	1	1	1	RI05272180	2.7kΩ	RK87	1	1	1	RI05103180	10kΩ
RK28	1	1	1	RI05272180	2.7kΩ	RK88	1	1	1	RI05103180	10kΩ
RK29	1	1	1	RI05104180	100kΩ	RK90	1	1	1	RI05102180	1kΩ
RK30	1	1	1	RI05104180	100kΩ	RK92	1	1	1	RI05102180	1kΩ
RK31	1	1	1	RI05472180	4.7kΩ	RK93	1	1	1	RI05472180	4.7kΩ
RK32	1	1	1	RI05472180	4.7kΩ	RK94	1	1	1	RI05472180	4.7kΩ
RK33	1	1	1	RI05152180	1.5kΩ	RK96	1	1	1	RI05000180	0Ω
RK34	1	1	1	RI05152180	1.5kΩ	RL01	1	1	1	RI05022180	2.2Ω
RK35	1	1	1	RI05684180	680kΩ	RL02	1	1	1	RI05022180	2.2Ω
RK36	1	1	1	RI05684180	680kΩ	RL03	1	1	1	RI05222180	2.2kΩ
RK37	1	1	1	RI05392180	3.9kΩ	RL04	1	1	1	RI05222180	2.2kΩ
RK38	1	1	1	RI05392180	3.9kΩ	RL05	1	1	1	RI05472180	4.7kΩ
RK39	1	1	1	RI05124180	120kΩ	RL06	1	1	1	RI05222180	2.2kΩ
RK40	1	1	1	RI05124180	120kΩ	RL07	1	1	1	RA02230600	22kΩ Trimming
RK41	1	1	1	RA04730600	47kΩ	RL08	1	1	1	RA02230600	22kΩ Trimming
RK42	1	1	1	RA04730600	47kΩ	RL10	1	1	1	RI05101180	100Ω
RK43	1	1	1	RI05472180	4.7kΩ	RL11	1	1	1	RI05101180	100Ω
RK44	1	1	1	RI05472180	4.7kΩ	RL12	1	1	1	RI05000180	0Ω
RK45	1	1	1	RI05153180	15kΩ	RL13	1	1	1	GD05472160	4.7kΩ 1/6W
RK46	1	1	1	RI05153180	15kΩ	RL51	1	1	1	RI05047180	4.7Ω
RK47	1	1	1	RI05224180	220kΩ	RU01	1	1	1	RI05101180	100Ω
RK48	1	1	1	RI05224180	220kΩ	RU02	1	1	1	RI05104180	100kΩ
RK49	1	1	1	RI05275180	2.7MΩ	RU03	1	1	1	RI05224180	220kΩ
RK50	1	1	1	RI05275180	2.7MΩ	RU04	1	1	1	RI05224180	220kΩ
RK51	1	1	1	RI05333180	33kΩ	RU05	1	1	1	RI05224180	220kΩ
RK52	1	1	1	RI05333180	33kΩ	RU06	1	1	1	RI05224180	220kΩ
RK53	1	1	1	RI05222180	2.2kΩ	RU07	1	1	1	RI05334180	330kΩ
RK54	1	1	1	RI05222180	2.2kΩ	RU08	1	1	1	RI05224180	220kΩ
RK55	1	1	1	RI05472180	4.7kΩ	RU09	1	1	1	RI05102180	1kΩ
RK56	1	1	1	RI05472180	4.7kΩ	RU10	1	1	1	RA04730600	47kΩ Trimming
RK57	1	1	1	RI05562180	5.6kΩ	RU11	1	1	1	GD05561140	560Ω 1/4W
RK58	1	1	1	RI05562180	5.6kΩ						
RK59	1	1	1	RI05682180	6.8kΩ						
RK60	1	1	1	RI05682180	6.8kΩ						
RK61	1	1	1	RI05122180	1.2kΩ						
RK62	1	1	1	RI05122180	1.2kΩ						
RK63	1	1	1	RI05332180	3.3kΩ						
RK64	1	1	1	RI05332180	3.3kΩ						
RK65	1	1	1	RI05560180	56Ω						
RK66	1	1	1	RI05560180	56Ω						
RK67	1	1	1	RI05101180	100Ω						
RK68	1	1	1	RI05101180	100Ω						
RK69	1	1	1	RI05392180	3.9kΩ						
RK70	1	1	1	RI05392180	3.9kΩ						
RK71	1	1	1	RI05681180	680Ω						
RK72	1	1	1	RI05681180	680Ω						
RK73	1	1	1	RA01040600	100kΩ						
RK74	1	1	1	RA01040600	100kΩ						

- (U) for U.S.A.
- (N) for Europe
- (A) for Australia

REF. DESIG.	Q'TY			PART NO.	DESCRIPTION	REF. DESIG.	Q'TY			PART NO.	DESCRIPTION
	U	N	A				U	N	A		
PK01-SEMICONDUCTORS						QK39	1	1	1	HX406012B0	Transistor 2SD601 (R,S) Chip
Q603	1	1	1	BA20002210	Semiconductor DTC-124S	QK40	1	1	1	HX406012B0	Transistor 2SD601 (R,S) Chip
Q701	1	1	1	HX413281R0	Transistor 2SD1328 R Chip	QK41	1	1	1	HX413281R0	Transistor 2SD1328 R Chip
Q702	1	1	1	HC10112060	IC Headphone Amp	QK42	1	1	1	HX413281R0	Transistor 2SD1328 R Chip
Q703	1	1	1	HT410203A0	Transistor 2SD1020 (H.F)	QK44	1	1	1	BA20002210	Semiconductor DTC124S
Q704	1	1	1	BA20002210	Semiconductor DTC-124S	QK45	1	1	1	BA20002210	Semiconductor DTC124S
Q801	1	1	1	HX410302A0	Transistor 2SD1030 (R,S) Chip	QK46	1	1	1	BA20002210	Semiconductor DTC124S
Q802	1	1	1	HX410302A0	Transistor 2SD1030 (R,S) Chip	QK47	1	1	1	HX413281R0	Transistor 2SD1328 R Chip
Q803	1	1	1	HX406012B0	Transistor 2SD601 (R,S) Chip	QK48	1	1	1	HX413281R0	Transistor 2SD1328 R Chip
Q804	1	1	1	HX406012B0	Transistor 2SD601 (R,S) Chip	QL01	1	1	1	HT320011L0	Transistor 2SC2001 L
Q805	1	1	1	HX406012B0	Transistor 2SD601 (R,S) Chip	QL02	1	1	1	HT320011L0	Transistor 2SC2001 L
Q806	1	1	1	HX406012B0	Transistor 2SD601 (R,S) Chip	QL03	1	1	1	HT409732B0	Transistor 2SD973 (R,S)
Q807	1	1	1	HX406012B0	Transistor 2SD601 (R,S) Chip	△ QU01	1	1	1	HT410203A0	Transistor 2SD1020 (H,F)
Q808	1	1	1	HX406012B0	Transistor 2SD601 (R,S) Chip	QU02	1	1	1	HX111621A0	Transistor 2SA1162 G Chip
Q809	1	1	1	HC10055020	IC AN6291S	QU03	1	1	1	HX111621A0	Transistor 2SA1162 G Chip
Q901	1	1	1	HX406012B0	Transistor 2SD601 (R,S) Chip	QU04	1	1	1	HX111621A0	Transistor 2SA1162 G Chip
Q902	1	1	1	HX406012B0	Transistor 2SD601 (R,S) Chip	DK01	1	1	1	HZ20005020	Diode MA153 Chip
Q903	1	1	1	HX406012B0	Transistor 2SD601 (R,S) Chip	DK02	1	1	1	HZ20005020	Diode MA153 Chip
Q904	1	1	1	HX406012B0	Transistor 2SD601 (R,S) Chip	DK03	1	1	1	HZ20003020	Diode MA151K Chip
Q905	1	1	1	HX406012B0	Transistor 2SD601 (R,S) Chip	DK04	1	1	1	HZ20003020	Diode MA151K Chip
Q906	1	1	1	HX406012B0	Transistor 2SD601 (R,S) Chip	DK05	1	1	1	HZ20001020	Diode MA151WK Chip
Q907	1	1	1	HC10055020	IC AN6291S	DK11	1	1	1	HZ20003020	Diode MA151K Chip
QG01	1	1	1	HX410302A0	Transistor 2SD1030 (R,S) Chip	DK12	1	1	1	HZ20003020	Diode MA151K Chip
QG02	1	1	1	HX410302A0	Transistor 2SD1030 (R,S) Chip	DK20	1	1	1	HZ20001020	Diode MA151WK Chip
QG03	1	1	1	HX410302A0	Transistor 2SD1030 (R,S) Chip	DK21	1	1	1	HZ20001020	Diode MA151WK Chip
QG04	1	1	1	HX410302A0	Transistor 2SD1030 (R,S) Chip	DK22	1	1	1	HD30034060	Zener RD3.6E
QG05	1	1	1	BA20002210	Semiconductor DTC124S	DL01	1	1	1	HZ20003020	Diode MA151K Chip
QG06	1	1	1	BA20002210	Semiconductor DTC124S	△ DU01	1	1	1	HD30002020	Zener IS1555 etc.
QG07	1	1	1	BA20002210	Semiconductor DTC124S	DU02	1	1	1	HD20001000	Diode IS1555 etc.
QG08	1	1	1	BA20002210	Semiconductor DTC124S	DU05	1	1	1	HD20001000	Diode IS1555 etc.
QG10	1	1	1	HX111621A0	Transistor 2SA1162 G	DU06	1	1	1	HD20001000	Diode IS1555 etc.
QG51	1	1	1	HX406012B0	Transistor 2SD601 (R,S) Chip	J701	1	1	1	YJ01002280	PK01-MISCELLANEOUS Jack
QG61	1	1	1	HX410302A0	Transistor 2SD1030 (R,S) Chip	JG01	1	1	1	YJ01002280	Jack Mic L
QG62	1	1	1	BA20002210	Semiconductor DTC124S	JG02	1	1	1	YJ01002280	Jack Mic R
QK01	1	1	1	BA20002210	Semiconductor DTC124S	JG03	1	1	1	BY01130010	Jack RCA/DIN
QK02	1	1	1	BA20002210	Semiconductor DTC124S	JK01	1	1	1	YJ04000840	Jack DC Input
QK03	1	1	1	BA20002210	Semiconductor DTC124S	JK02	1	1	1	YJ06003090	Jack (9P)
QK04	1	1	1	BA20002210	Semiconductor DTC124S	JK03	1	1	1	YJ06003270	Jack (7P)
QK05	1	1	1	HX327121A0	Transistor 2SC2712 G Chip	JK04	1	1	1	YJ06003040	Jack (4P)
QK06	1	1	1	HX327121A0	Transistor 2SC2712 G Chip	JK05	1	1	1	YJ06003090	Jack (9P)
QK11	1	1	1	HX327121A0	Transistor 2SC2712 G Chip	JK06	1	1	1	YJ06002560	Jack (6P)
QK12	1	1	1	HX327121A0	Transistor 2SC2712 G Chip	JK07	1	1	1	YJ06002560	Jack (6P)
QK13	1	1	1	HX413281R0	Transistor 2SD1328 R Chip	JK08	1	1	1	YJ06002540	Jack (4P)
QK14	1	1	1	HX413281R0	Transistor 2SD1328 R Chip	JK09	1	1	1	YJ06002560	Jack (6P)
QK15	1	1	1	HX406012B0	Transistor 2SD601 (R,S) Chip	JK11	1	1	1	YJ06003040	Jack (4P)
QK16	1	1	1	HX406012B0	Transistor 2SD601 (R,S) Chip						
QK17	1	1	1	HX413281R0	Transistor 2SD1328 R						
QK18	1	1	1	HX413281R0	Transistor 2SD1328 R						
QK19	1	1	1	HX406012B0	Transistor 2SD601 (R,S) Chip						
QK20	1	1	1	HX406012B0	Transistor 2SD601 (R,S) Chip						
QK21	1	1	1	BA20002210	Semiconductor DTC124S						
QK22	1	1	1	BA20002210	Semiconductor DTC124S						
QK23	1	1	1	BA20002210	Semiconductor DTC124S						
QK24	1	1	1	BA20002210	Semiconductor DTC124S						
QK25	1	1	1	BA20002210	Semiconductor DTC124S						
QK26	1	1	1	BA20002210	Semiconductor DTC124S						
QK27	1	1	1	HX317121A0	Transistor 2SC2712 G Chip						
QK28	1	1	1	HX317121A0	Transistor 2SC2712 G Chip						
QK29	1	1	1	HX317121A0	Transistor 2SC2712 G Chip						
QK30	1	1	1	HX317121A0	Transistor 2SC2712 G Chip						
QK33	1	1	1	HX317121A0	Transistor 2SC2712 G Chip						
QK34	1	1	1	BA20002210	Semiconductor DTC124S						
QK35	1	1	1	HC406600Z0	IC 4066						
QK37	1	1	1	HC406600Z0	IC 4066						

- (U) for U.S.A.
- (N) for Europe
- (A) for Australia

REF. DESIG.	Q'TY			PART NO.	DESCRIPTION	REF. DESIG.	Q'TY			PART NO.	DESCRIPTION
	U	N	A				U	N	A		
JL01	1	1	1	YJ06003050	Jack (5P)						P601-RESISTORS (All Resistors are ±5% & 1/8W Chip)
L601	1	1	1	LS10440060	M.P.X. Coil	R601	1	1	1	RI05224180	220kΩ
LG61	1	1	1	LS10440060	M.P.X. Coil	R603	1	1	1	RI05224180	220kΩ
LJ01	1	1	1	LC22260100	Choke Coil 22mH	R604	1	1	1	RI05224180	220kΩ
LJ02	1	1	1	LC22260100	Choke Coil 22mH	R605	1	1	1	RI05102180	1kΩ
LK01	1	1	1	LC25650700	Choke Coil	R606	1	1	1	RI05153180	15kΩ
LK02	1	1	1	LC25650700	Choke Coil	R607	1	1	1	RI05473180	47kΩ
LK03	1	1	1	LC24760520	Choke Coil	R608	1	1	1	RI05684180	680kΩ
LK04	1	1	1	LC24760520	Choke Coil	R609	1	1	1	RI05271180	270Ω
LL01	1	1	1	TC10110010	OSC Transf.	R610	1	1	1	RI05222180	2.2kΩ
LL51	1	1	1	TC10200090	OSC Transf.	R612	1	1	1	RI05224180	220kΩ
LL52	1	1	1	LC14730040	Choke Coil	R613	1	1	1	RI05153180	15kΩ
LL53	1	1	1	LC21050700	Choke Coil	R614	1	1	1	RI05102180	1kΩ
S701	1	1	1	SS01030040	Slide Switch Speaker Monitor Mode	R615	1	1	1	RI05102180	1kΩ
S702	1	1	1	SS01020490	Slide Switch Speaker Monitor ON/OFF	R616	1	1	1	RI05473180	47kΩ
SK01	1	1	1	SP02020730	Push Switch Limiter	R617	1	1	1	RI05332180	3.3kΩ
SK02	1	1	1	SP02020740	Push Switch Batt/Light	R618	1	1	1	RI05472180	4.7kΩ
SK03	1	1	1	SP02020730	Push Switch Monitor	R619	1	1	1	RI05332180	3.3kΩ
SK04	1	1	1	SP02020740	Push Switch Rec/Play	R620	1	1	1	RI05472180	4.7kΩ
						R621	1	1	1	RI05330180	33Ω
						R622	1	1	1	RI05124180	120kΩ
						R623	1	1	1	RI05272180	2.7kΩ
						R624	1	1	1	RI05104180	100kΩ
						R625	1	1	1	RI05104180	100kΩ
						R667	1	1	1	RI05000180	0Ω
											P601-SEMICONDUCTORS
						Q601	1	1	1	HX406012B0	Transistor 2SD601 (R,S) Chip
						Q602	1	1	1	HX410302A0	Transistor 2SD1030 (R,S) Chip
						Q604	1	1	1	HC10062010	IC HA12048
											P601-MISCELLANEOUS
						J601	1	1	1	YP06002560	Plug (6P)
						J602	1	1	1	YP06002560	Plug (6P)
											P601-DOLBY (L) CIRCUIT BOARD
P601	1	1	1	WB154T1520	P.W. Board Dolby (L)						
	1	1	1	ZZ154T1520	P.W. Board Assembly						
											P601-CAPACITORS
C601	1	1	1	EJ47502510	Elect 4.7μF 25V						
C603	1	1	1	DD45271300	Ceramic 270pF ±5%						
C604	1	1	1	EJ22505010	Elect 2.2μF 50V						
C605	1	1	1	EJ10700610	Elect 100μF 6.3V						
C606	1	1	1	EV68401670	Elect 0.68μF 16V						
C607	1	1	1	EJ22405010	Elect 0.22μF 50V						
C608	1	1	1	DF15682350	Film 6800pF ±5%						
C609	1	1	1	EJ22505010	Elect 2.2μF 50V						
C610	1	1	1	EJ33503510	Elect 3.3μF 35V						
C611	1	1	1	DF15333350	Film 0.033μF ±5%						
											P602-CAPACITORS
C612	1	1	1	DF15492350	Film 4700pF ±5%	C652	1	1	1	EJ10700610	Elect 100μF 6.3V
C613	1	1	1	EJ33503510	Elect 3.3μF 35V	C653	1	1	1	EV68401670	Elect 0.68μF 16V
C614	1	1	1	EJ22505010	Elect 2.2μF 50V	C654	1	1	1	EJ22405010	Elect 0.22μF 50V
C615	1	1	1	EJ47502510	Elect 4.7μF 25V	C655	1	1	1	DF15682350	Film 6800pF ±5%
C616	1	1	1	EJ22505010	Elect 2.2μF 50V	C656	1	1	1	EJ22505010	Elect 2.2μF 50V
C617	1	1	1	EJ33503510	Elect 3.3μF 35V	C657	1	1	1	DF15333350	Film 0.033μF ±5%
C618	1	1	1	EV68401670	Elect 0.68μF 16V	C658	1	1	1	DF15472350	Film 4700pF ±5%
C619	1	1	1	EJ22405010	Elect 0.22μF 50V	C659	1	1	1	EJ33503510	Elect 3.3μF 35V
C620	1	1	1	DF15682350	Film 6800pF ±5%	C660	1	1	1	EJ33503510	Elect 3.3μF 35V
C621	1	1	1	EJ22505010	Elect 2.2μF 50V	C661	1	1	1	EJ22505010	Elect 2.2μF 50V
C622	1	1	1	DF15472350	Film 4700pF ±5%	C662	1	1	1	EJ33503510	Elect 3.3μF 35V
C623	1	1	1	DF15333350	Film 0.033μF ±5%	C663	1	1	1	EV68401670	Elect 0.68μF 16V
C624	1	1	1	EJ33503510	Elect 3.3μF 35V	C664	1	1	1	EJ22405010	Elect 0.22μF 50V
C625	1	1	1	EJ22601610	Elect 22μF 16V	C665	1	1	1	DF15682350	Film 6800pF ±5%
C626	1	1	1	EJ22505010	Elect 2.2μF 50V	C666	1	1	1	EJ22505010	Elect 2.2μF 50V
C627	1	1	1	EJ22505010	Elect 2.2μF 50V	C667	1	1	1	DF15333350	Film 0.033μF ±5%
C628	1	1	1	DK46562300	Ceramic 5600pF ±10%	C668	1	1	1	EJ33503510	Elect 3.3μF 35V
C629	1	1	1	EJ22505010	Elect 2.2μF 50V	C669	1	1	1	DF15472350	Film 4700pF ±5%
C630	1	1	1	EJ22505010	Elect 2.2μF 50V	C670	1	1	1	EJ22601610	Elect 22μF 16V
C631	1	1	1	EJ10700610	Elect 100μF 6.3V	C671	1	1	1	EJ22505010	Elect 2.2μF 50V
						C672	1	1	1	EJ22505010	Elect 2.2μF 50V

- (U) for U.S.A.
- (N) for Europe
- (A) for Australia

REF. DESIG.	Q'TY			PART NO.	DESCRIPTION	REF. DESIG.	Q'TY			PART NO.	DESCRIPTION
	U	N	A				U	N	A		
					P602-RESISTORS (All Resistors are ±5% & 1/8W Chip)						PJ01-SEMICONDUCTORS
R651	1	1	1	RI05224180	220kΩ	QJ01	1	1	1	HX410301T0	Transistor 2SD1030 T Chip
R652	1	1	1	RI05224180	220kΩ	QJ02	1	1	1	HX410301T0	Transistor 2SD1030 T Chip
R653	1	1	1	RI05102180	1kΩ	QJ03	1	1	1	HX410301T0	Transistor 2SD1030 T Chip
R654	1	1	1	RI05153180	15kΩ	QJ04	1	1	1	HX410301T0	Transistor 2SD1030 T Chip
R655	1	1	1	RI05473180	47kΩ						PJ01-MISCELLANEOUS
R656	1	1	1	RI05224180	220kΩ	JJ01	1	1	1	YJ06003040	Jack (4P)
R657	1	1	1	RI05224180	220kΩ						
R658	1	1	1	RI05102180	1kΩ	WJ01	1	1	1	YB00110140	Connective Cord (4P)
R659	1	1	1	RI05153180	15kΩ						
R660	1	1	1	RI05473180	47kΩ						
											PK02-MIC MODE CIRCUIT BOARD
R661	1	1	1	RI05332180	3.3kΩ						
R662	1	1	1	RI05472180	4.7kΩ	PK02	1	1	1	WB154T1540	P.W. Board Mic Mode
R663	1	1	1	RI05472180	4.7kΩ						P.W. Board Assembly
R664	1	1	1	RI05332180	3.3kΩ						
R665	1	1	1	RI05330180	33Ω						PK02-SEMICONDUCTOR
R666	1	1	1	RI05272180	2.7kΩ	DS02	1	1	1	HZ20003020	Diode MA151K Chip
											PK02-MISCELLANEOUS
Q651	1	1	1	HC10062010	P602-SEMICONDUCTOR IC HA12048	S201	1	1	1	SS02020740	Slide Switch Mic Mode
J651	1	1	1	YP06002540	P602-MISCELLANEOUS Plug (4P)						PK03-MIC ATTENUATOR CIRCUIT BOARD
J652	1	1	1	YP06002560	Plug (6P)	PK03	1	1	1	WB154T1550	P.W. Board Mic Attenuator
											P.W. Board Assembly
											PK03-MISCELLANEOUS
PJ01	1	1	1	WC154T2430	PJ01-TAPE EQ CIRCUIT BOARD P.W. Board Tape EQ.	S301	1	1	1	SS01030050	Slide Switch Mic Att.
											PK04-MONITOR CIRCUIT BOARD
CJ01	1	1	1	DD45121300	PJ01-CAPACITORS Ceramic 120pF ±5%						
CJ02	1	1	1	DD45121300	Ceramic 120pF ±5%	PK04	1	1	1	WZ154T0020	P.W. Board Monitor
CJ03	1	1	1	EJ10601610	Elect 10μF 16V						P.W. Board Assembly
CJ04	1	1	1	EJ10601610	Elect 10μF 16V						PK04-RESISTORS (All Resistors are ±5% & 1/8W Chip)
CJ05	1	1	1	DK46102300	Ceramic 1000pF ±10%	RE07	4	4	4	RI05104180	100kΩ
CJ06	1	1	1	DK46102300	Ceramic 1000pF ±10%	RE10					
CJ09	1	1	1	EJ10601610	Elect 10μF 16V						PK04-SEMICONDUCTORS
CJ10	1	1	1	EJ10601610	Elect 10μF 16V	QK49	1	1	1	BA20002210	Semiconductor DTC124S
CJ11	1	1	1	DF15223350	Film 0.022μF ±5%	QK50	1	1	1	BA20002210	Semiconductor DTC124S
CJ12	1	1	1	DF15223350	Film 0.022μF ±5%						
											PM01-MOTOR CIRCUIT BOARD
CJ13	1	1	1	EJ22505010	Elect 2.2μF 50V	PM01	1	1	1	WC154T2420	P.W. Board Motor
CJ14	1	1	1	EJ22505010	Elect 2.2μF 50V						P.W. Board Assembly
CJ15	1	1	1	EJ47601610	Elect 47μF 16V						PM01-CAPACITORS
CJ16	1	1	1	EJ47601610	Elect 47μF 16V	CM01	1	1	1	EJ22505010	Elect 2.2μF 50V
CJ17	1	1	1	EA10701610	Elect 100μF 16V	CM02	1	1	1	EJ10700610	Elect 100μF 6.3V
CJ21	1	1	1	DK46102300	Ceramic 1000pF ±10%	CM03	1	1	1	EA22701630	Elect 220μF 16V
CJ22	1	1	1	DK46102300	Ceramic 1000pF ±10%	CM04	1	1	1	EJ10601610	Elect 10μF 16V
CJ23	1	1	1	DD45151300	Ceramic 150pF ±5%	CM05	1	1	1	EJ10601610	Elect 10μF 16V
CJ24	1	1	1	DD45151300	Ceramic 150pF ±5%	CM06	1	1	1	EJ10701010	Elect 100μF 10V
						CM07	1	1	1	EJ22601610	Elect 22μF 16V
						CM08	1	1	1	EJ22601610	Elect 22μF 16V
RJ03	1	1	1	RI05154180	150kΩ	CM09	1	1	1	DK46102300	Ceramic 1000pF ±10%
RJ04	1	1	1	RI05154180	150kΩ	CM10	1	1	1	DF15334350	Film 0.33μF ±5%
RJ05	1	1	1	RI05820180	82Ω						
RJ06	1	1	1	RI05820180	82Ω	CM11	1	1	1	DK18103310	Ceramic 0.01μF +80%, -20%
RJ07	1	1	1	RI05104180	100kΩ	CM12	1	1	1	EJ10505010	Elect 1μF 50V
RJ08	1	1	1	RI05104180	100kΩ						
RJ09	1	1	1	RI05562180	5.6kΩ						
RJ10	1	1	1	RI05562180	5.6kΩ						
RJ11	1	1	1	RI05154180	150kΩ						
RJ12	1	1	1	RI05154180	150kΩ						
RJ13	1	1	1	RI05153180	15kΩ						
RJ14	1	1	1	RI05153180	15kΩ						
RJ15	1	1	1	RI05271180	270Ω						
RJ16	1	1	1	RI05271180	270Ω						
RJ17	1	1	1	RI05122180	1.2kΩ						
RJ18	1	1	1	RI05122180	1.2kΩ						
RJ19	1	1	1	RI05332180	3.3kΩ						
RJ20	1	1	1	RI05332180	3.3kΩ						
RJ21	1	1	1	RI05333180	33kΩ						
RJ22	1	1	1	RI05333180	33kΩ						

- (U) for U.S.A.
- (N) for Europe
- (A) for Australia

REF. DESIG.	Q'TY			PART NO.	DESCRIPTION	REF. DESIG.	Q'TY			PART NO.	DESCRIPTION
	U	N	A				U	N	A		
					PM01-RESISTORS (All Resistors are $\pm 5\%$ & 1/8W Chip)						PS01-SEMICONDUCTORS
RM01	1	1	1	NB50052390	0.5 Ω 1/2W	QS01	1	1	1	HX327121A0	Transistor 2SC2712 G Chip
RM02	1	1	1	RI05027180	2.7 Ω	QS02	1	1	1	HX327121A0	Transistor 2SC2712 G Chip
RM03	1	1	1	RI05821180	820 Ω	DS01	1	1	1	HZ20003020	Diode MA151K Chip
RM04	1	1	1	NB51032200	10k Ω 1/2W						PS01-MISCELLANEOUS
RM05	1	1	1	RA01020600	1k Ω	JS01	1	1	1	YB00130210	Connective Cord
RM06	1	1	1	RI05473180	47k Ω	JS02	1	1	1	YB00290060	Connective Cord
RM07	1	1	1	RI05472180	4.7k Ω	SS01	1	1	1	SS01020470	Slide Switch Memory Rew.
RM08	1	1	1	RI05472180	4.7k Ω	SS02	1	1	1	SS01020470	Slide Switch MPX Filter
RM09	1	1	1	RI05473180	47k Ω	SS03	1	1	1	SS01030030	Slide Switch N.R.
RM10	1	1	1	RI05473180	47k Ω	SS04	1	1	1	SS02030250	Slide Switch Tape Selector
RM11	1	1	1	RI05821180	820 Ω						PX01-METER LED CIRCUIT BOARD
RM12	1	1	1	RI05821180	820 Ω	PX01	1	1	1	WC154T2440	P.W. Board Meter LED
					PM01-SEMICONDUCTORS						ZZ154T2440
QM01	1	1	1	HC10037020	IC AN6612						PX01-CAPACITORS
QM02	1	1	1	HT10966100	Transistor 2SA966 0						Elect 10 μ F 16V
QM03	1	1	1	HX413281R0	Transistor 2SD1328 R Chip						PX01-RESISTORS (All Resistors are $\pm 5\%$ & 1/8W Chip)
QM04	1	1	1	BA20002210	Semiconductor DTC124S	CX01	1	1	1	EJ10601610	220 Ω
QM05	1	1	1	BA20002210	Semiconductor DTC124S						1M Ω
QM06	1	1	1	HX413281R0	Transistor 2SD1328 Chip						1M Ω
QM07	1	1	1	HC10039210	IC BA337						33 Ω
QM08	1	1	1	HC10024020	IC DN6838						33 Ω
DM01	1	1	1	HD20015030	Diode DS-153D	RX01	1	1	1	RI05221180	10k Ω
DM02	1	1	1	HZ20001020	Diode MA151WK Chip	RX02	1	1	1	RI05105180	47k Ω
DM03	1	1	1	HZ20001020	Diode MA151WK Chip	RX03	1	1	1	RI05105180	390 Ω
DM04	1	1	1	HZ20001020	Diode MA151WK Chip	RX04	1	1	1	RI05330180	390 Ω
DM05	1	1	1	HZ20001020	Diode MA151WK Chip	RX05	1	1	1	RI05330180	
DM06	1	1	1	HZ20001020	Diode MA151WK Chip	RX06	1	1	1	RI05103180	
DM07	1	1	1	HZ20001020	Diode MA151WK Chip	RX07	1	1	1	RI05473180	
DM08	1	1	1	HZ20001020	Diode MA151WK Chip	RX11	1	1	1	RI05391180	
					PM01-MISCELLANEOUS	RX12	1	1	1	RI05391180	
WM01	1	1	1	YB00190100	Connective Cord						PX01-SEMICONDUCTORS
WM02	1	1	1	YZ03060260	Jumper Lead	QX01	1	1	1	HC401100Z0	IC 4011
WM03	1	1	1	YU05057800	Jumper Lead	QX02	1	1	1	HX327121A0	Transistor 2SC2712 G Chip
					PS01-SWITCH CIRCUIT BOARD						PX01-MISCELLANEOUS
PS01	1	1	1	WC154T2410	P.W. Board Switch	DX01	1	1	1	HI10017210	L.E.D. LED
	1	1	1	ZZ154T2410	P.W. Board Assembly	DX02	1	1	1	HI10017210	L.E.D. LED
					PS01-CAPACITOR	WX01	1	1	1	YB00120170	Connective Cord (7P)
CS01	1	1	1	DF15334350	Film 0.33 μ F $\pm 5\%$						PX02-PEAK/REC INDICATOR CIRCUIT BOARD
					PS01-RESISTORS (All Resistors are $\pm 5\%$ & 1/8W Chip)	PX02	1	1	1	WB154T1530	P.W. Board Peak/Rec Indicator
RS01	1	1	1	RI05153180	15k Ω						ZZ154T1530
RS02	1	1	1	RI05332180	3.3k Ω						PZ01-SEMICONDUCTORS
RS03	1	1	1	RI05182180	1.8k Ω	DX11	1	1	1	HI10056020	L.E.D. Rec.
RS04	1	1	1	RB02020020	2k Ω	DX02	1	1	1	HI10025020	L.E.D. Peak Ind.
RS06	1	1	1	RB02020020	2k Ω						
RS07	1	1	1	GJ05010010	1 Ω						
RS08	1	1	1	RI05103180	10k Ω						
RS09	1	1	1	RI05473180	47k Ω						
RS10	1	1	1	RI05153180	15k Ω						
RS11	1	1	1	RI05682180	6.8k Ω						
RS12	1	1	1	RI05124180	120k Ω						
RS13	1	1	1	RI05684180	680k Ω						
RS14	1	1	1	RI05102180	1k Ω						
RS15	1	1	1	GD05564180	560k Ω						
RS16	1	1	1	GD05104180	100k Ω						

(W01-99)	Assembly and Wiring
(T01-99)	Adjustment
(X01-00)	Correction

NOTE ON SAFETY:
Symbol Δ Fire or electrical shock hazard. Only original parts should be used to replace any part marked with symbol Δ . Any other component substitution (other than original type), may increase risk of fire or electrical shock hazard.

9. TECHNICAL SPECIFICATIONS

Tape Drive System	Single Capstan Drive
Cartridge	Philips type compact cassette
Track System	Compatible Stereo 4-track 2-channel
Tape Speed	4.75 cm/sec.
Heads	3 Head System
	Record: Super Hard Metal Alloy
	Playback: Super Hard Metal Alloy
	Erase: Dual Gap Metal Alloy
Motor	DC Servo Motor
Overall Frequency Response at 25 dB below 0 VU	
Normal Tape	30 Hz ~16 kHz
CrO ₂ Tape	20 Hz ~18 kHz
Metal Tape	20 Hz ~20 kHz
Signal-to-Noise Ratio: with A-Curve Filter to 3% Distortion (K3)	
Dolby OFF	59 dB
Dolby B (ON)	65 dB
dbx (ON)	80 dB
Wow and Flutter	
DIN WTD	0.15%
Outputs	
Line Level/Impedance	500 mV/3 k ohms
Headphone Level/Impedance	3 mV/8 ohms
DIN Level/Impedance	500 mV/3 k ohms
Input (Level at 0 VU)	
Line Sensitivity/Impedance	100 mV/50 k ohms
Mic Sensitivity/Impedance	0.32 mV/10 k ohms
DIN Sensitivity/Impedance	0.1 mV/k ohms
Fast Rewind Time	110 sec. (C-60)
Fast Forward Time	110 sec. (C-60)
Power Requirements	3 Batteries: R20/Size "D" Rechargeable Battery: Model RBD 430 (optional) AC adapter: 110-120V, 220-240V AC 50, 60 Hz
Power Consumption	AC 6.5W/DC 3.5W
Dimensions	
Panel Width	227 mm
Panel Height	50 mm
Depth	165 mm
Weight	1.3 kg

Specifications and appearance are subject to change for modification without notice.