

SERVICE  
MANUAL

CD-73



**marantz®**

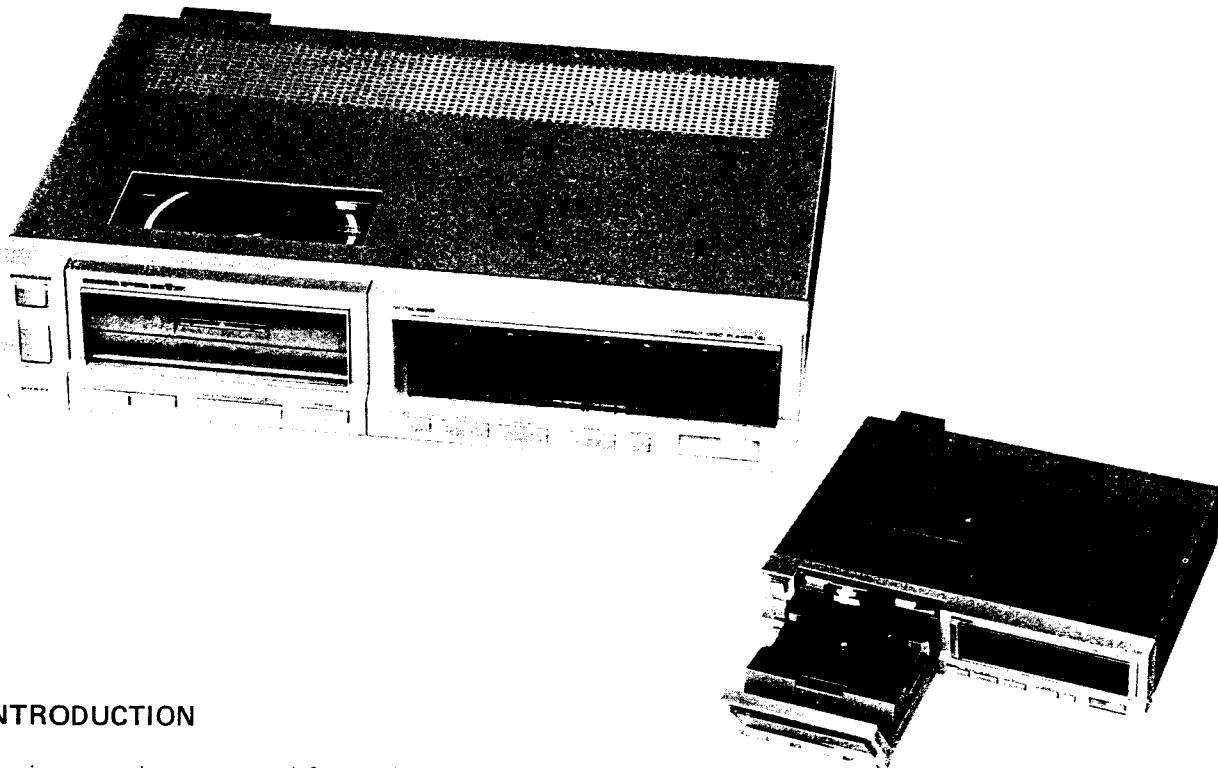
**model CD-73**

*Compact Disc Player*

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## MODEL CD-73 COMPACT DISC PLAYER



### 1. INTRODUCTION

This service manual was prepared for use by Authorized Warranty Stations and contains service information for Marantz Model CD-73 Compact Disc Player.

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 Compact Disc Player.

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 usually be obtained through local suppliers.

### 2. P. W. BOARDS

1. Power Supply . . . . .mounted on P.W. Board P100
  2. Servo . . . . .mounted on P.W. Board P200
  3. Decoder . . . . .mounted on P.W. Board P500
  4. Motor/Remocon . . . . .mounted on P.W. Board P800
  5. Main Filter . . . . .mounted on P.W. Board PH00
  6. Power Indicator . . . . .mounted on P.W. Board PR00
  7. Disc Inside Indicator . . . . .mounted on P.W. Board PR50
  8. Program Key Switch . . . . .mounted on P.W. Board PS00
  9. Mode Key Switch . . . . .mounted on P.W. Board PU00
  10. Signal Relay 2 . . . . .mounted on P.W. Board PU50
  11. Display . . . . .mounted on P.W. Board PY00
  12. Mode Indicator . . . . .mounted on P.W. Board PZ00
  13. Signal Relay 1 . . . . .mounted on P.W. Board PZ50
14. Pre Amp. + Laser . . . . .mounted on P.W. Board AY40

### 3. DRAWER MOTOR CONTROL P. W. BORAD WORKING PRINCIPLE

Drawer motor control P. W. Borad includes the following.

- (1) Drawer motor drive circuit
- (2) Remote control circuit (Marantz Bus System decoder circuit)

#### 3.1 Drawer Motor Drive Circuit

##### A. Outline of the system

This circuit revolves and reverses the drawer motor by the OPEN/CLOSE switch of S802 on the front panel to open and close the drawer. It includes a circuit to increase starting torque and a safety circuit which stops automatically when something is caught in the drawer.

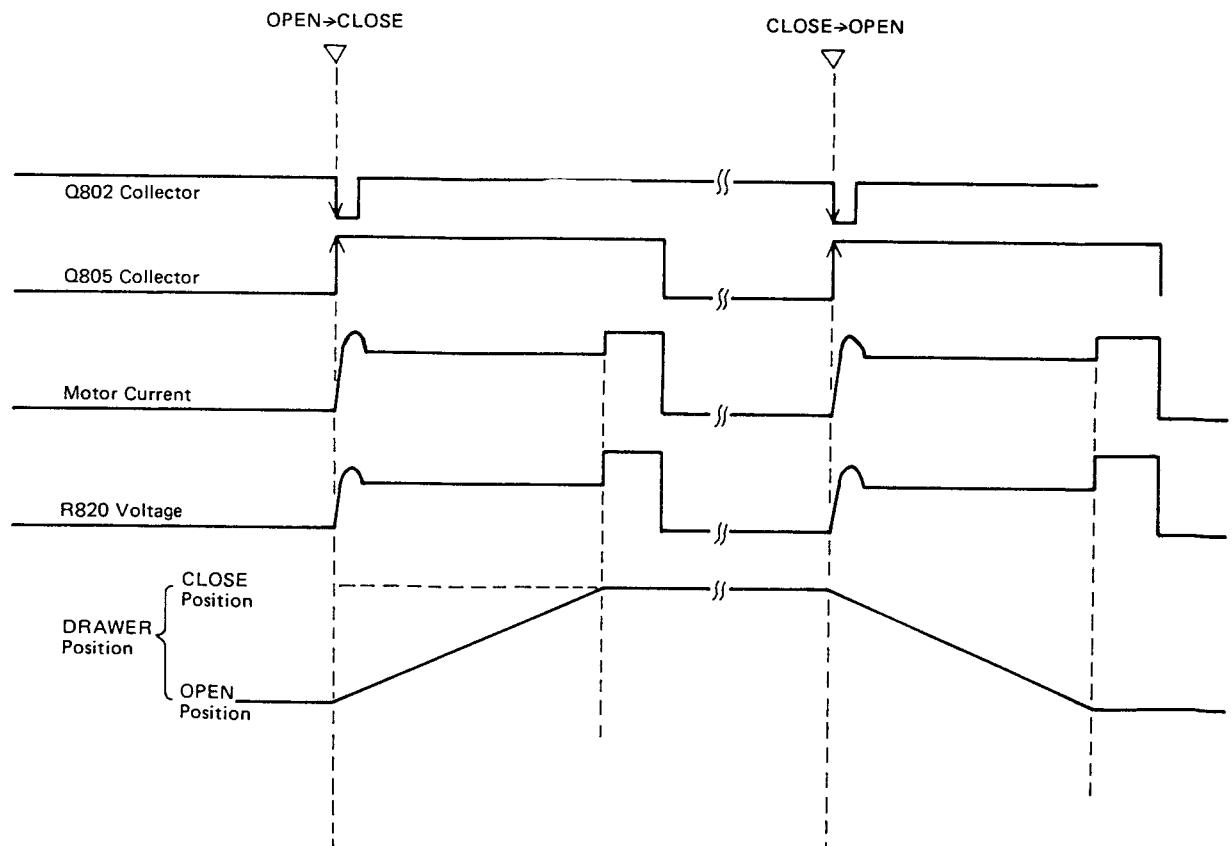
##### B. Operation of each part

- a) Q809, Q808 and Q807 are motor drive circuits. Especially Q808 increases motor starting torque.
- b) When the voltage of R820 becomes over about 0.6V, the base current begins to flow through Q803. That is, the motor is locked to detect the excessive current.
- c) Q805 and Q806 make up a set/reset flip flop, which is set when positive voltage is put into the base of Q805. And it is reset when the base becomes 0. As long as it is set, D806 is "ON" and motor drive circuit does not operate.
- d) Q802 becomes "ON" just for a few msec when the OPEN/CLOSE switch of S802 is pushed. (S802 is non-shorting type.)

- e) Q801 becomes "ON" just for the time-constant  $t_1$  based on R816/R801/C801 only after S802 is changed from CLOSE to OPEN, and makes the base of Q809 0V to stop the motor drive circuit. Meanwhile, the voltage of C807 is discharged to increase the torque for the time-constant  $t_2$  of C807/R822 just after the end of  $t_1$ .

##### C. Explanation of overall operation

- a) During the shift of OPEN/CLOSE switch S802, from OPEN to CLOSE, Q802 becomes "ON" in an instant and flip flop which is composed of Q805 and Q806 is reset to cut off D806.
- b) Consequently motor drive circuit which is composed of Q809, Q808 and Q807 begins to operate to switch on the drawer motor.
- c) When the drawer comes to the mechanical end, short-circuit current begins to flow to the motor to generate voltage of R820 about 1V. This voltage reverses Q803 to cut off D804.
- d) After D804 is cut off, C805 is discharged through R807 and Q804, and Q804 becomes OFF after about 2.5 sec.
- e) As a result, the collector voltage of Q804 rises to set the above flip flop through R809/R810. In this way, the motor drive circuit becomes OFF again.
- f) You have the same operation also when S802 is changed from CLOSE to OPEN. But Q801 has been added so that Q808 which increases start up torque can become ON without fail.



### 3.2 Remote Control Circuit

#### A. Outline of the system

Marantz Bus System is a general term to this remote control circuit. Remocon transmitter and remocon receiver are necessary to operate it.

The output of the remocon receiver is connected to the remocon "IN" terminal on the rear panel of the CD-73. The remocon transmitter has 4 keys for play/next, pause, repeat and stop.

#### B. Operation of each part

- a) Q851 is N channel Micro Processor for remocon.
- b) Q857 amplifies a signal from the remocon receiver and transmits it to pin 24 of the Micro Processor.
- c) Q858 is a transistor switch. When a laser signal "S" becomes Low level, it switches "ON" and changes the Micro Processor pin 25 to High level to generate an easy operation signal at pin 19.  
This easy operation signal is reversed at Q856 and put out from the easy "OUT" terminal of the CD-73. This signal makes easy operation possible.
- d) Q853, Q854 and Q855 are used as analogue switches and controlled by output pin 9, 10 and 15 respectively. Q852 is a transistor switch, which lowers a sense signal to GND level to stop operation.
- e) R852/D851/C856 are used for initial setting of the Micro Processor.

#### C. Overall operation

When any key of the remocon transmitter is pushed, a pulse signal is transmitted to the CD-73 remote "IN" terminal through the remocon receiver. This signal is put into the Micro Processor pin 24 after being amplified at Q857 and the Micro Processor comes to correspond to the key to generate High signal at the output pin as follows.

play/next . . . . .	pin 9
pause . . . . .	pin 10
repeat . . . . .	pin 15
stop . . . . .	pin 4

Besides, only when the play/next key is pushed, an easy operation signal occurs at pin 19 for 60 msec to mute the other sources.

### 4. ADJUSTMENT PROCEDURES FOR DISC CLAMPER

#### 4.1 Adjusting the height of the pressure ring holder

The height of the holder must be adjusted to maintain braking by keeping the appropriate distance between the holder and pressure ring.

With the drawer in the unit, lift the holder manually, and place the positioning tool on the turntable.

If the drawer is in the "out" position, the aluminum cap will come in contact with the front chassis and front panel, and will be scratched when the drawer is pushed into the unit.

With a screwdriver, turn the adjustment screw clockwise 2 or 3 turns. Push down the holder several times to confirm that it sinks a few millimeters until it makes contact with the positioning tool. If there is no play between the holder and tool, turn the adjustment screw further until a few millimeters play is obtained.

Turn the adjustment screw counterclockwise until the play between the holder and tool becomes zero.

For optimum adjustment, do not exert excess pressure on the adjustment screw with the screwdriver.

Apply lock paint to the adjustment screw.

Lift the holder with the drawer in the "in" position, and remove the positioning tool.

## 5. VOLTAGE CONVERSION

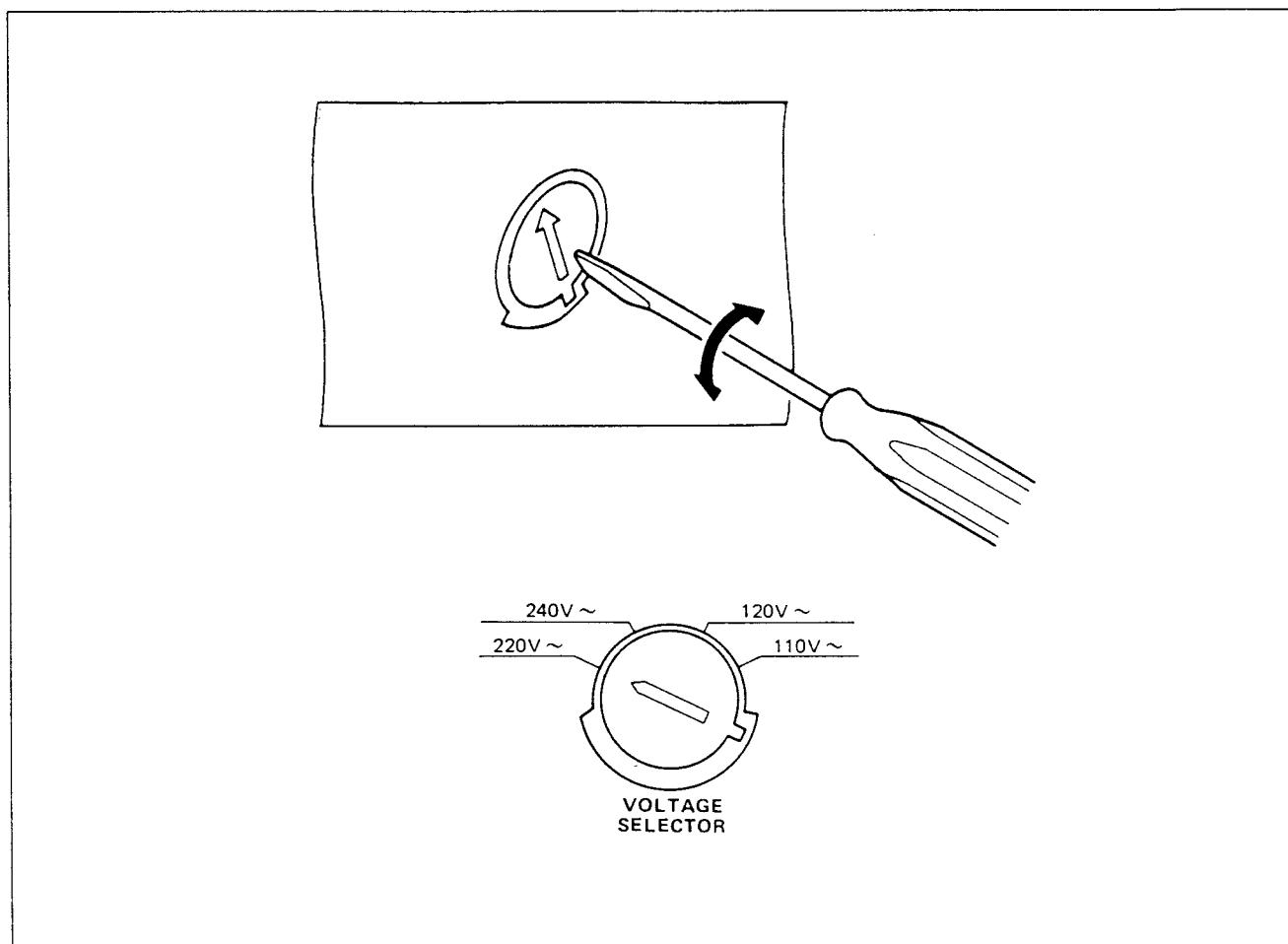
- EUROPEAN MODEL ONLY

To convert the unit to a different power source voltage, change the position as illustrated in the drawing below.

**CAUTION**

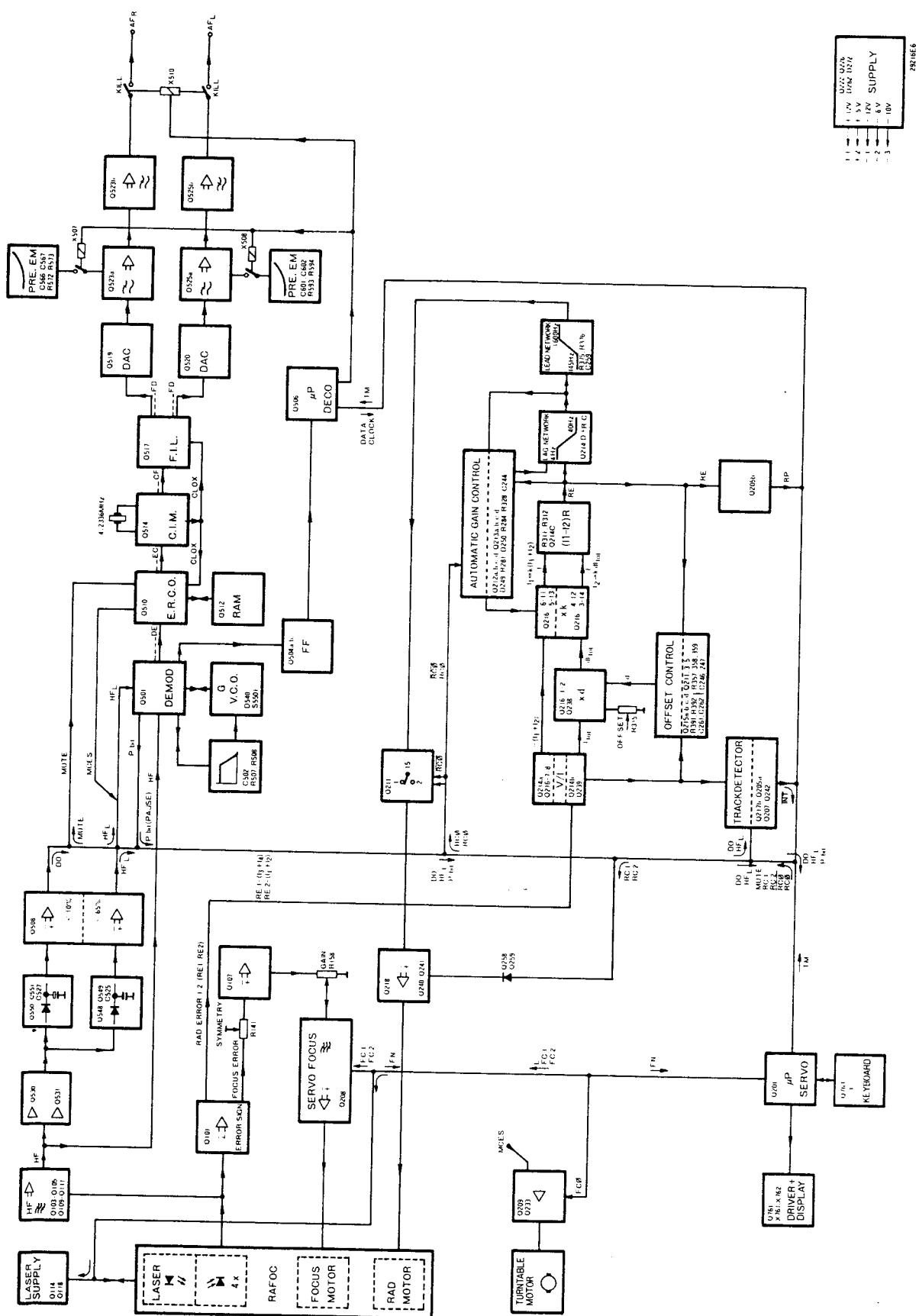
DISCONNECT POWER SUPPLY CORD FROM AC OUTLET BEFORE CONVERTING VOLTAGE.

Voltage Conversion Chart



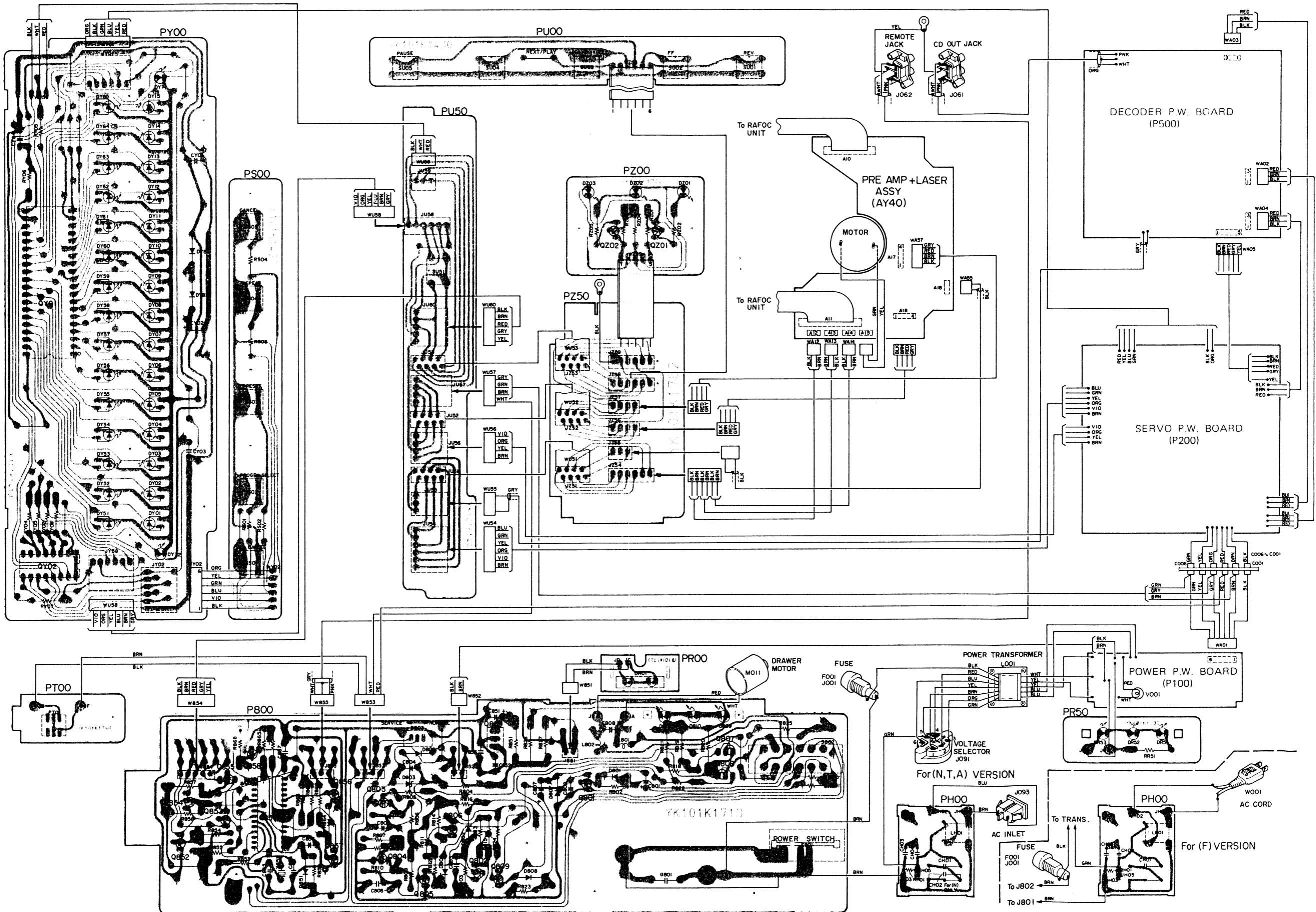
**Note on safety:** Symbol Fire or electrical shock hazard. Only original parts should be used to replace any part marked with symbol . Any other component substitution (other than original type), may increase risk of fire or electrical shock hazard.

## 6. SIGNAL BLOCK DIAGRAM



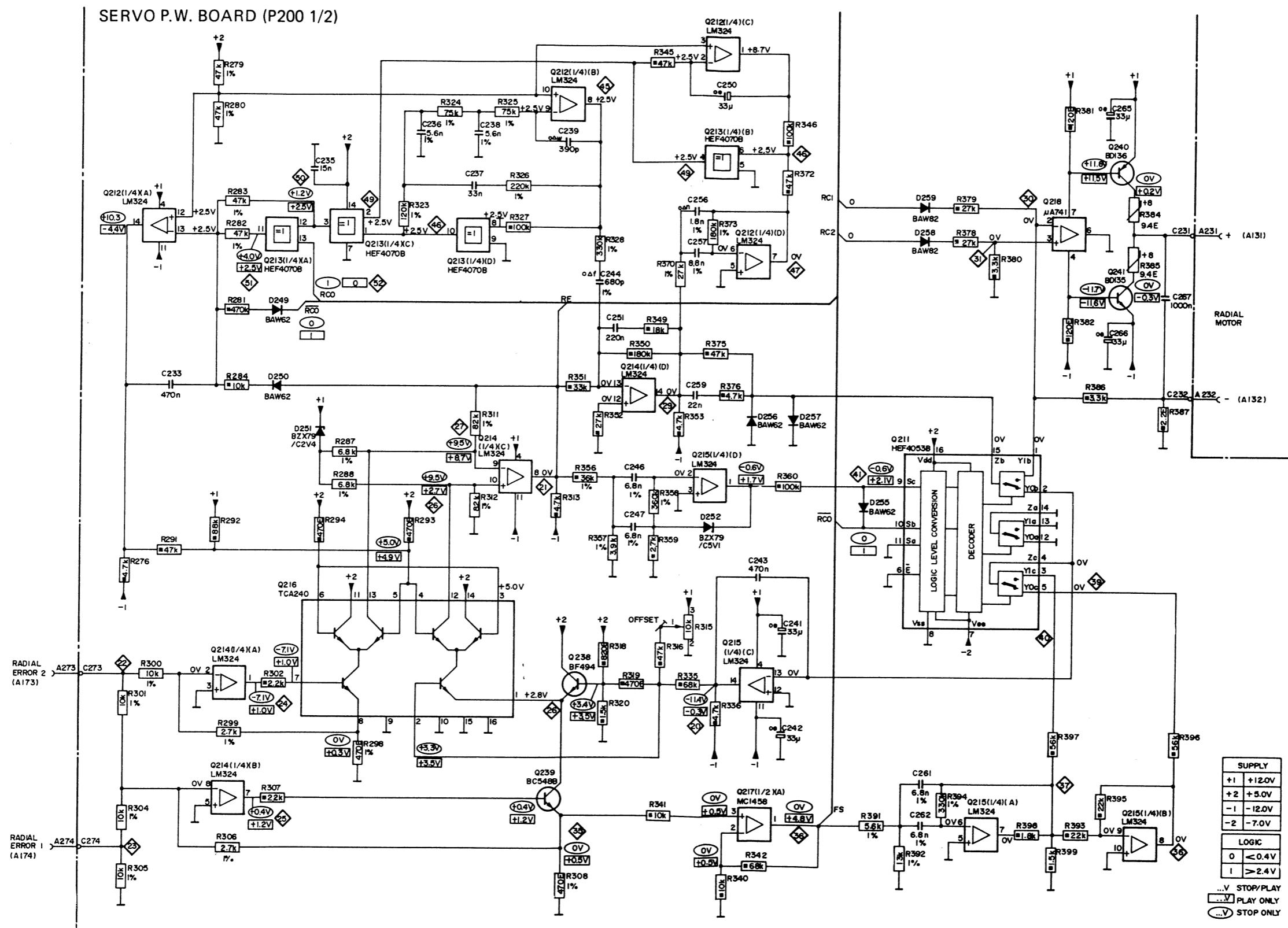
in 3590

## 7. COMPONENT LOCATIONS (AND WIRE CONNECTIONS)

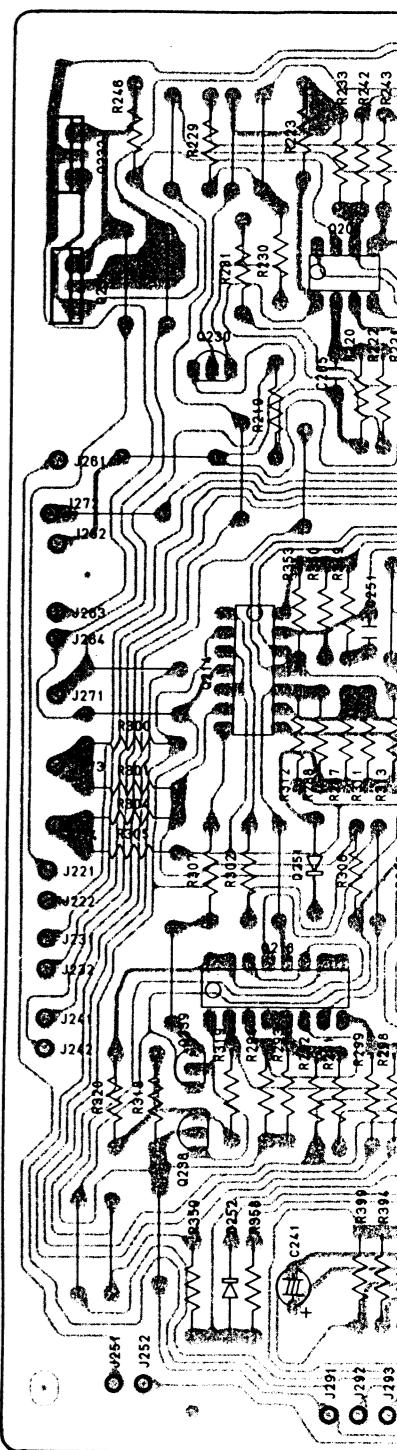
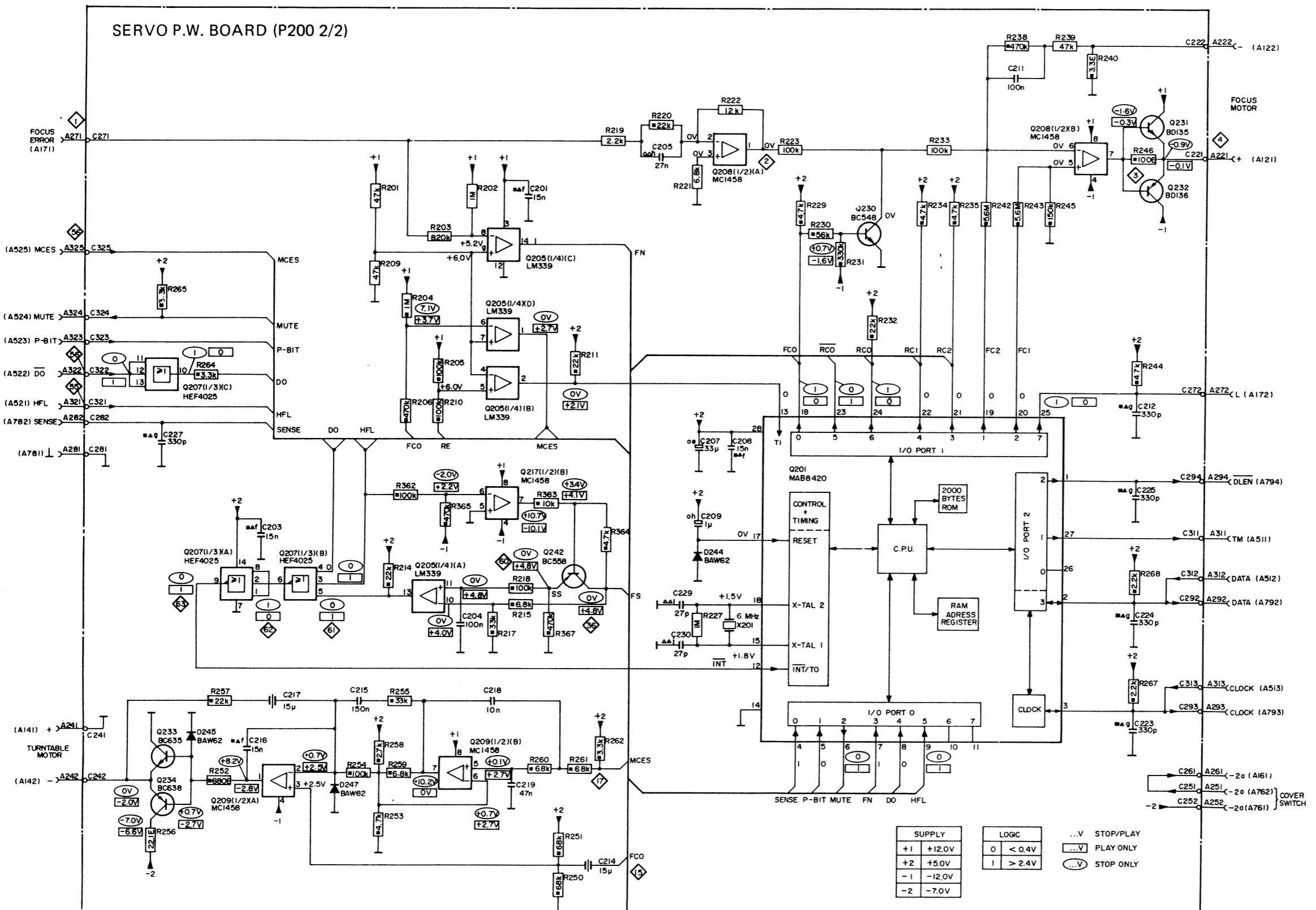


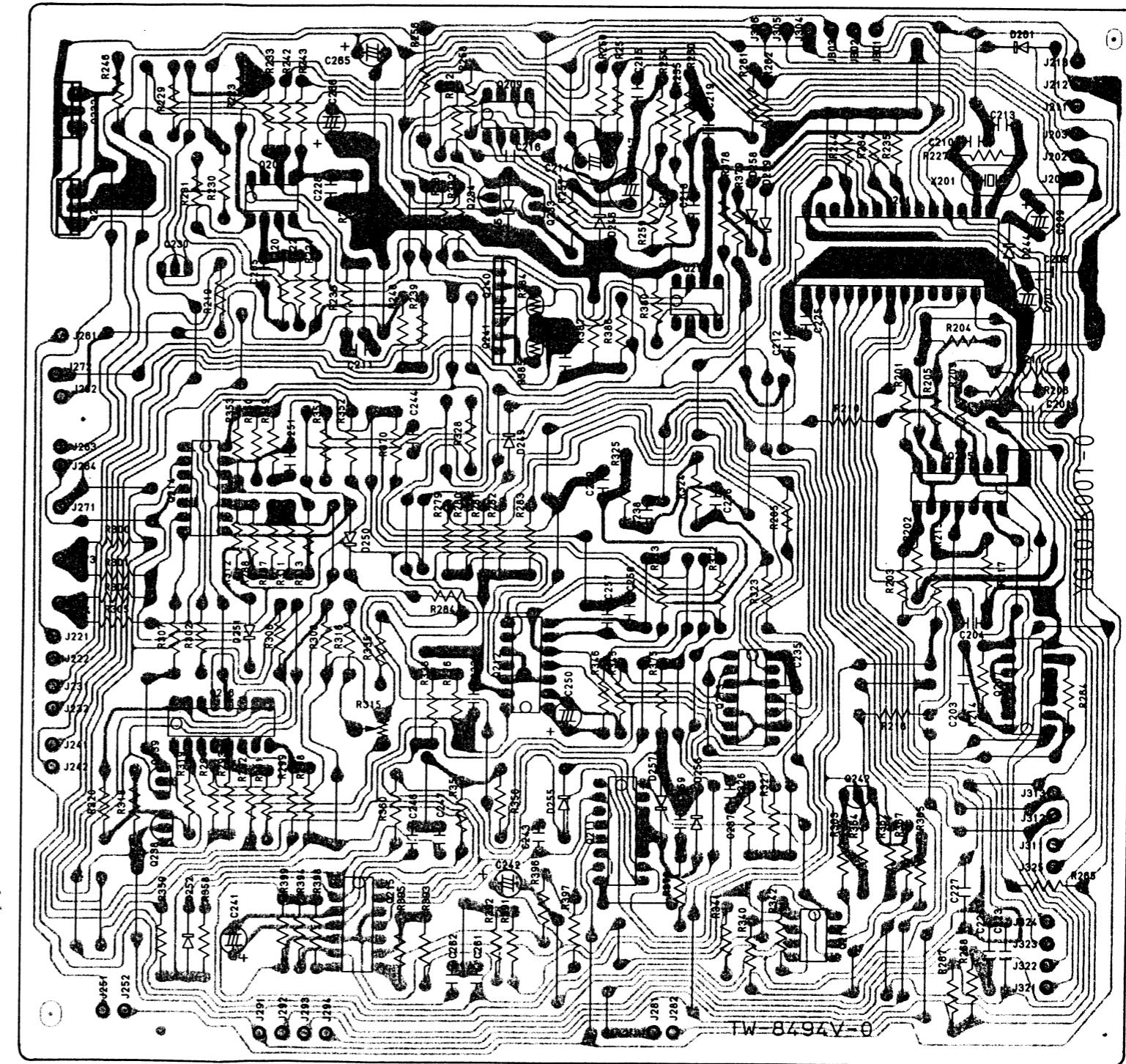
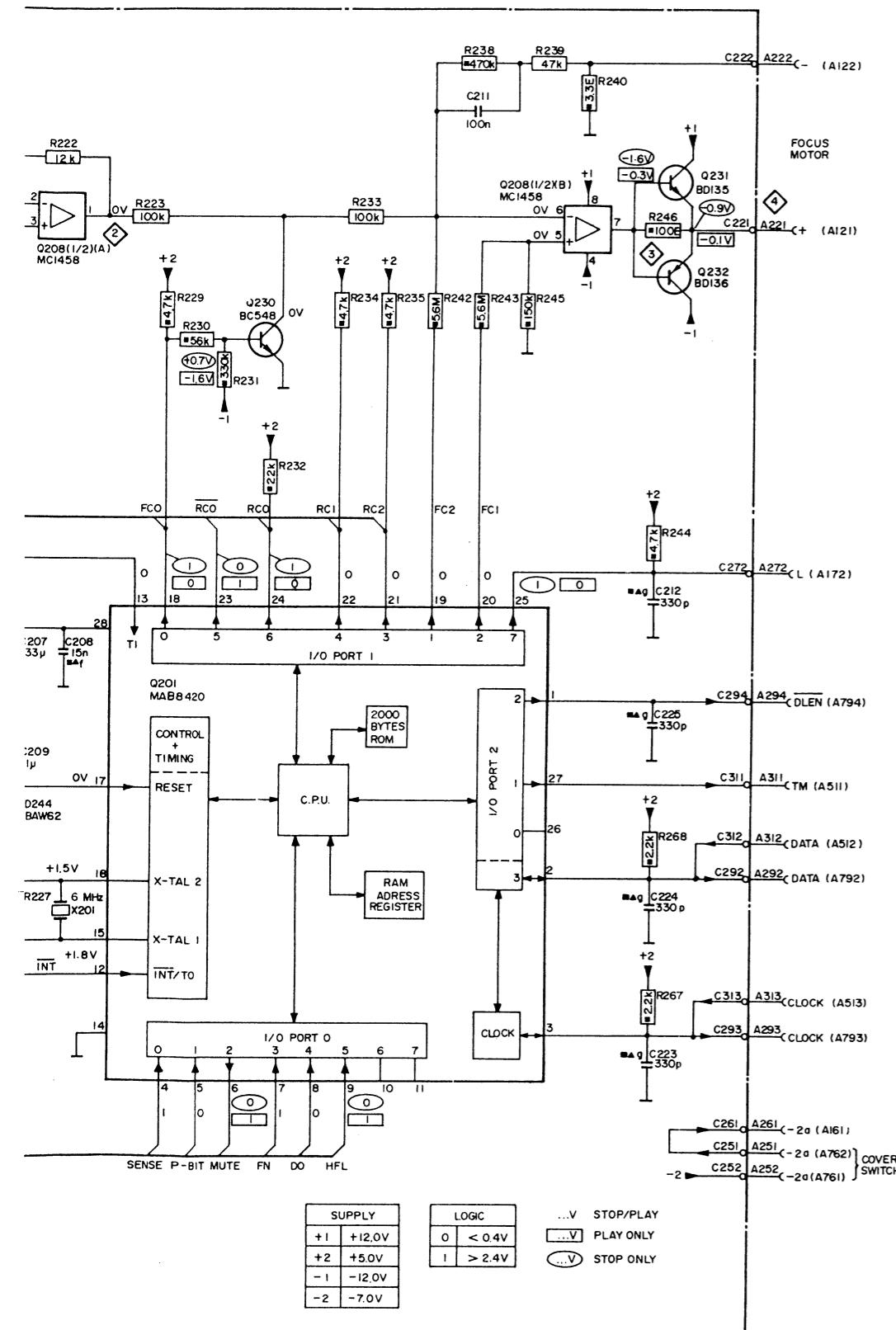
## 8. DIAGRAM AND COMPONENT LOCATIONS

### 8.1 Servo (P200) Schematic Diagram and Component Locations

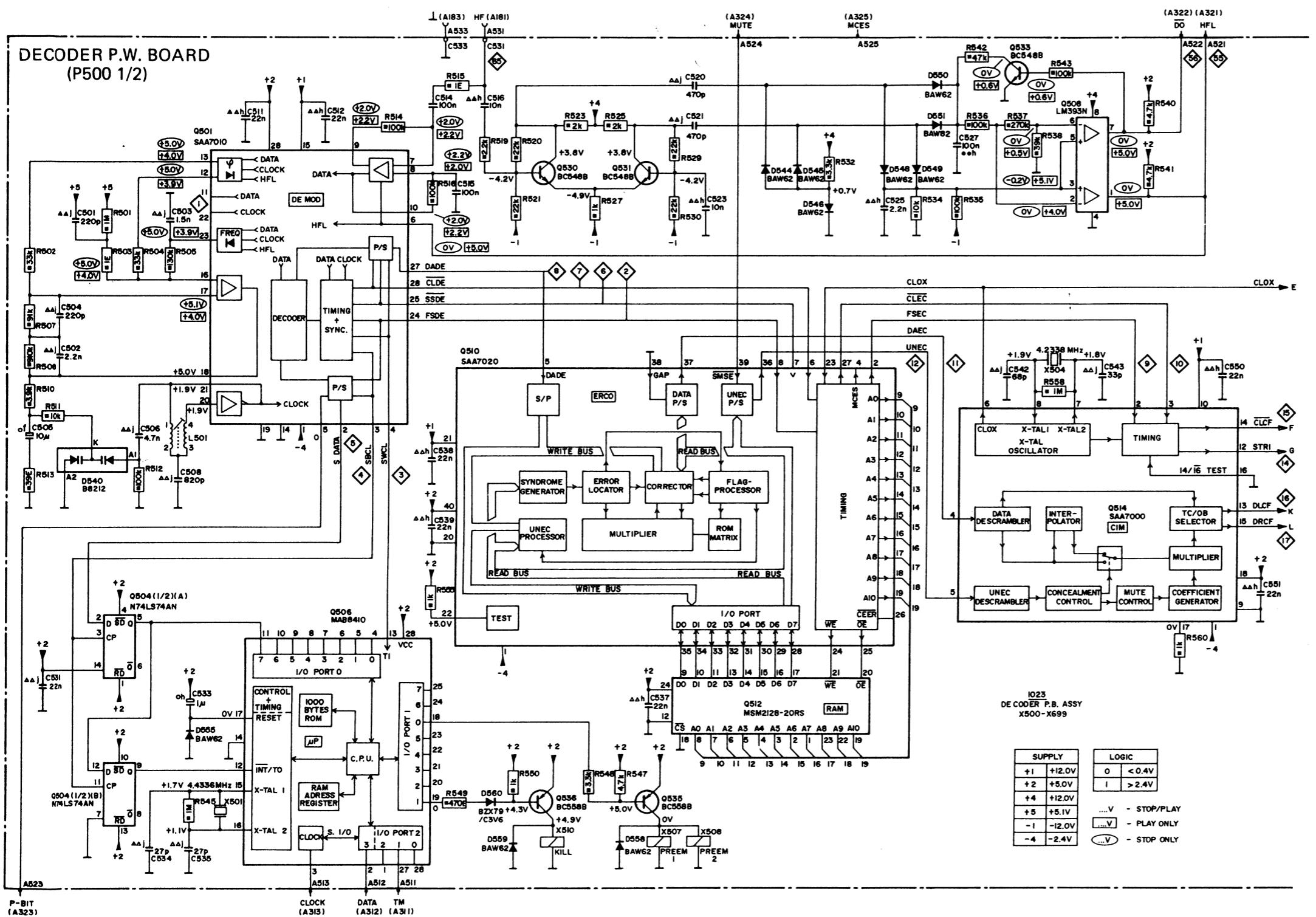


m 3592



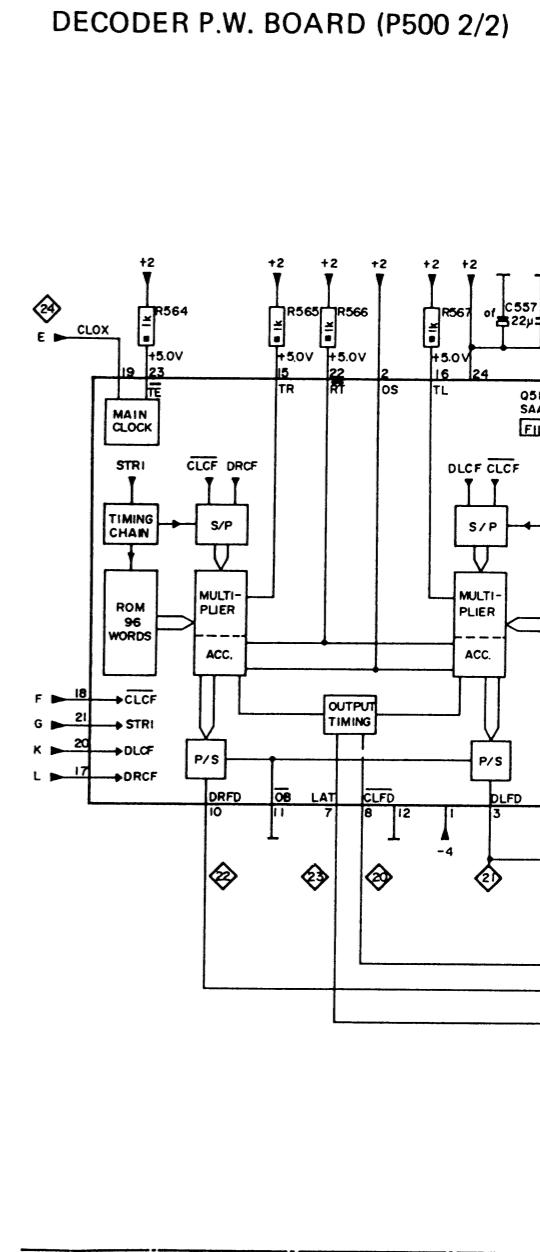


## **8.2 Decoder (P500) Schematic Diagram and Component Locations**

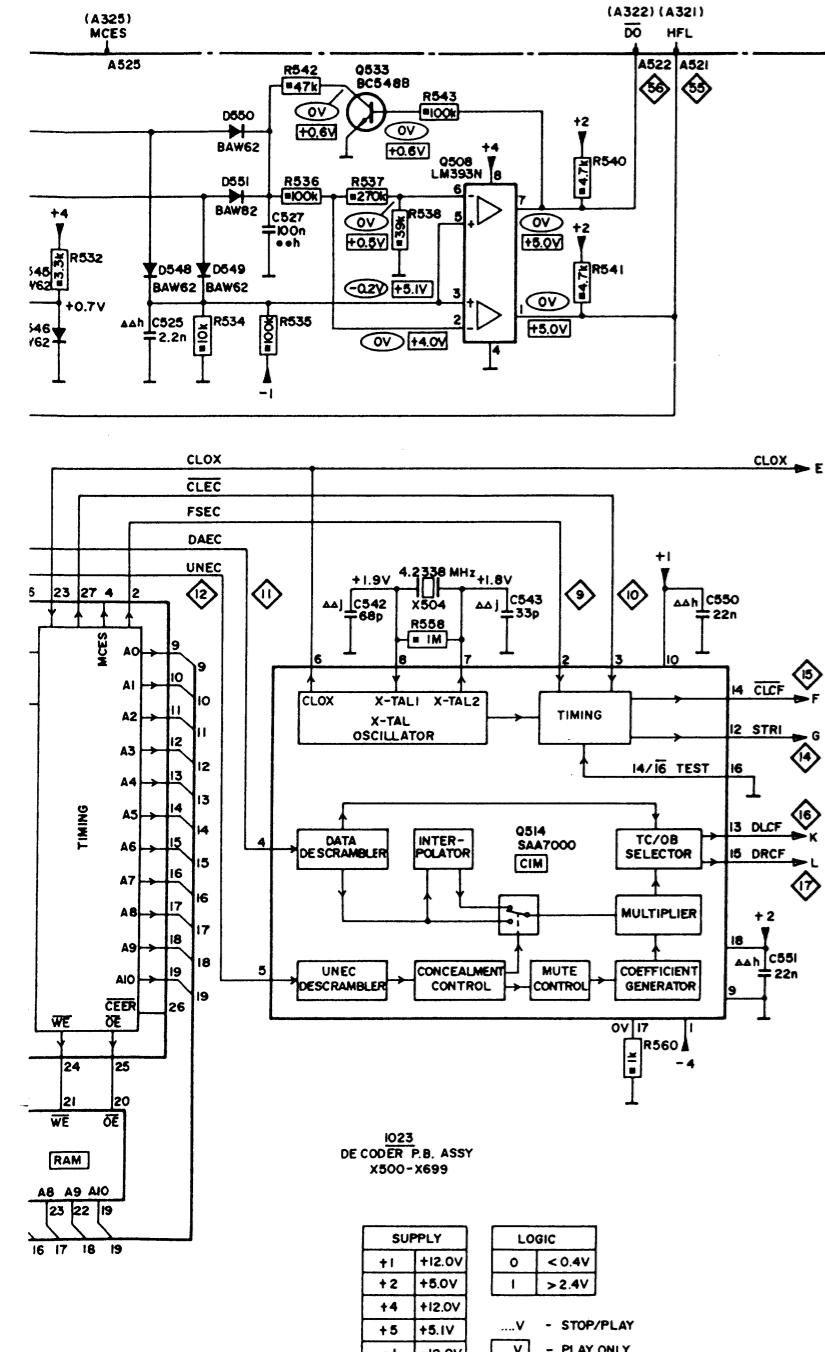


<http://www.manualscenter.com>

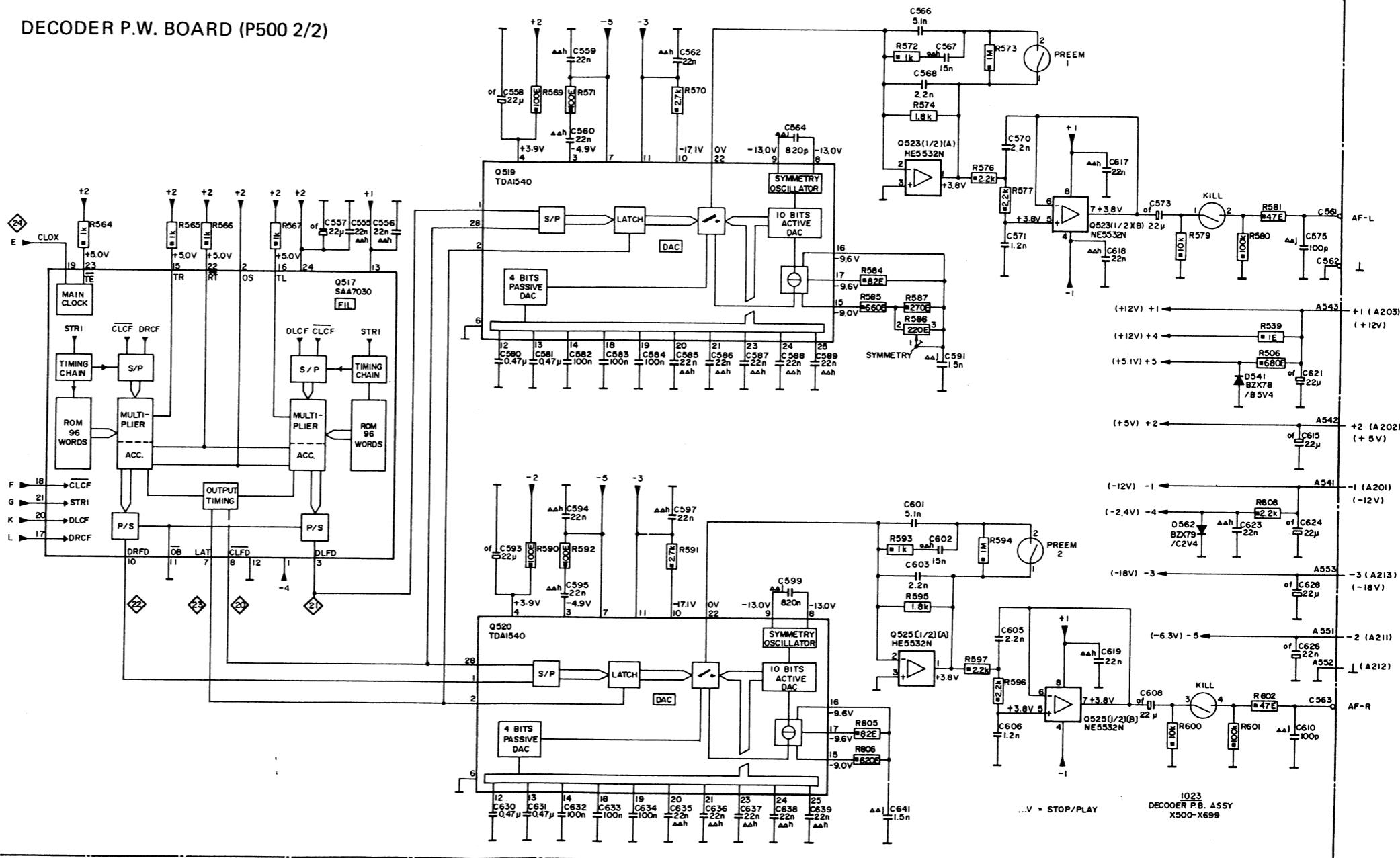
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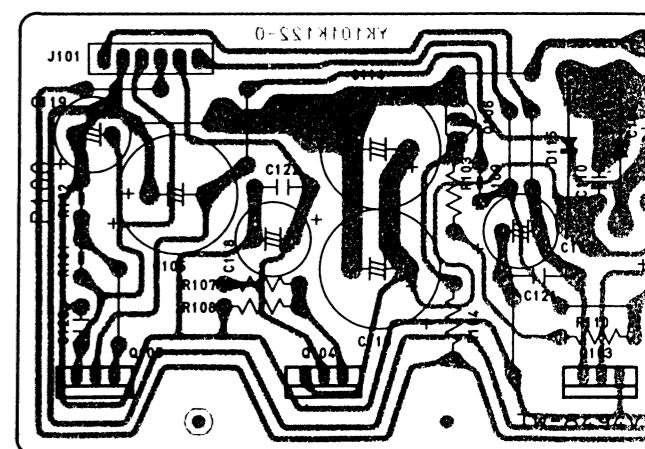
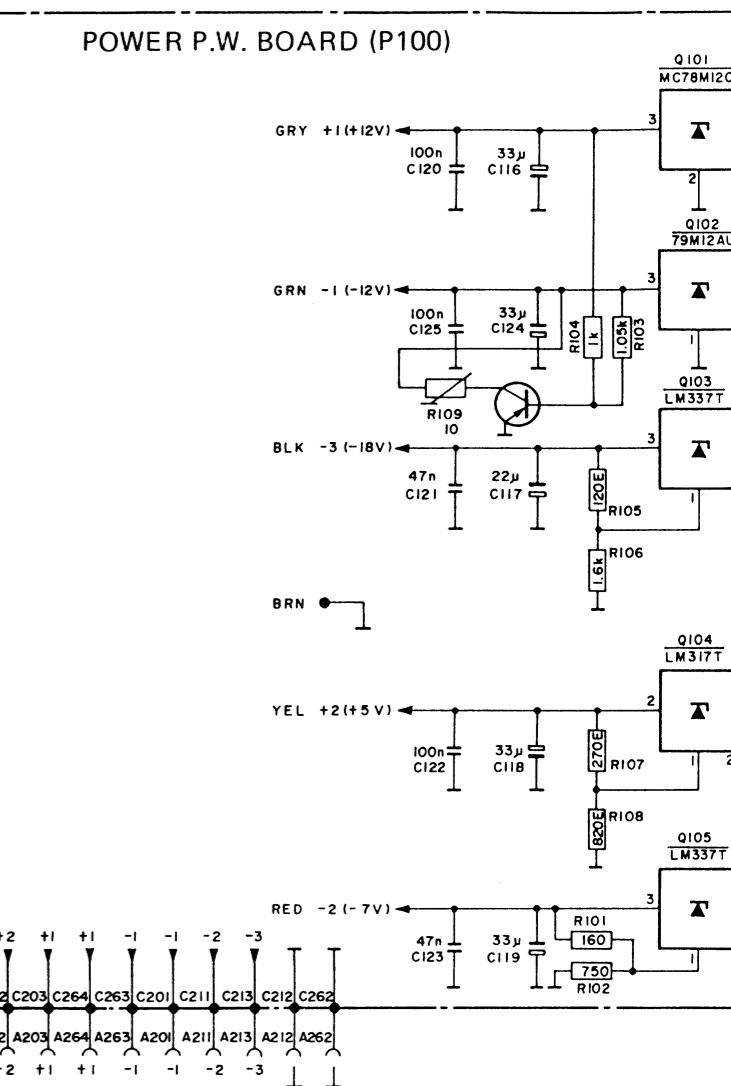
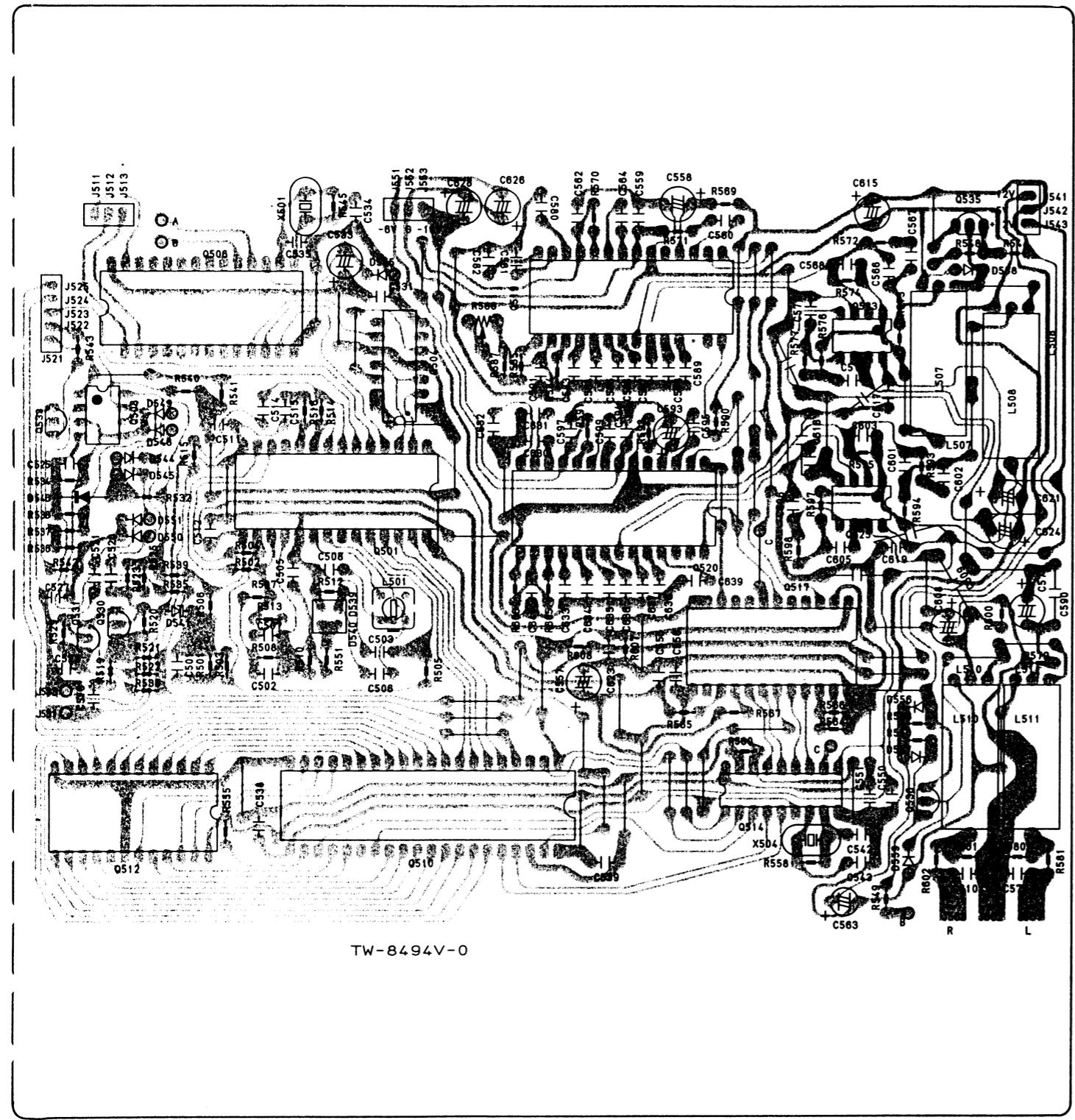
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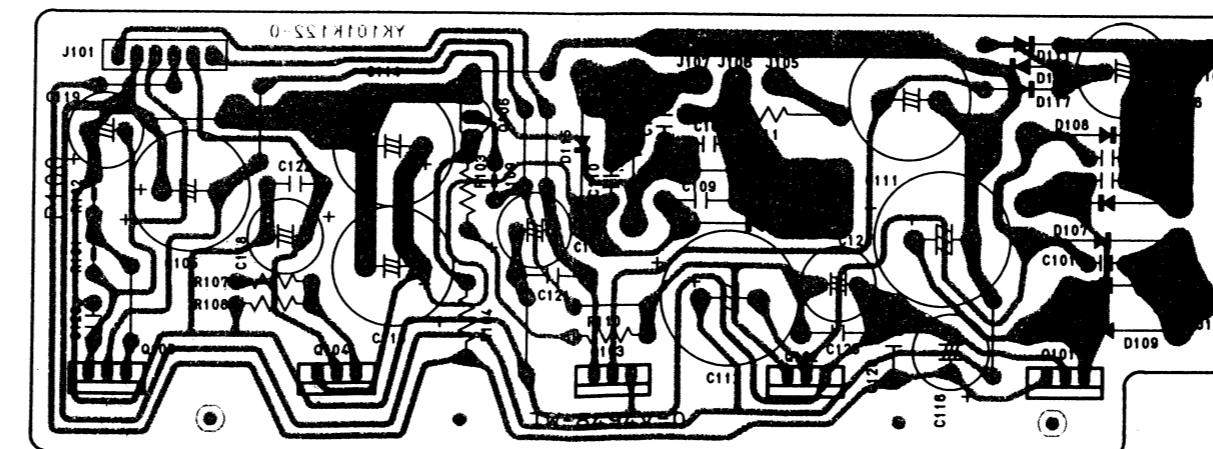
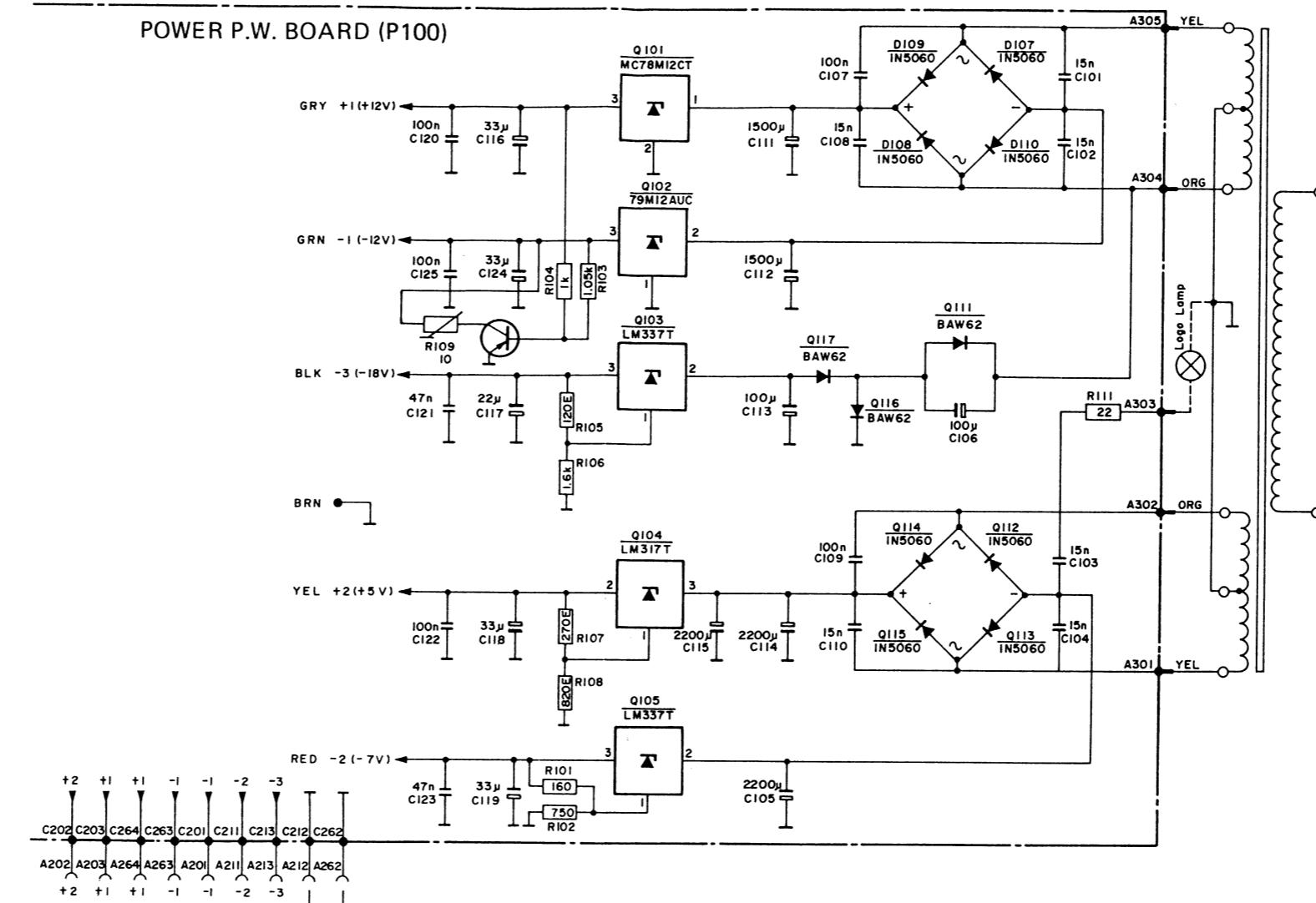
DECODER P.W. BOARD (P500 2/2)



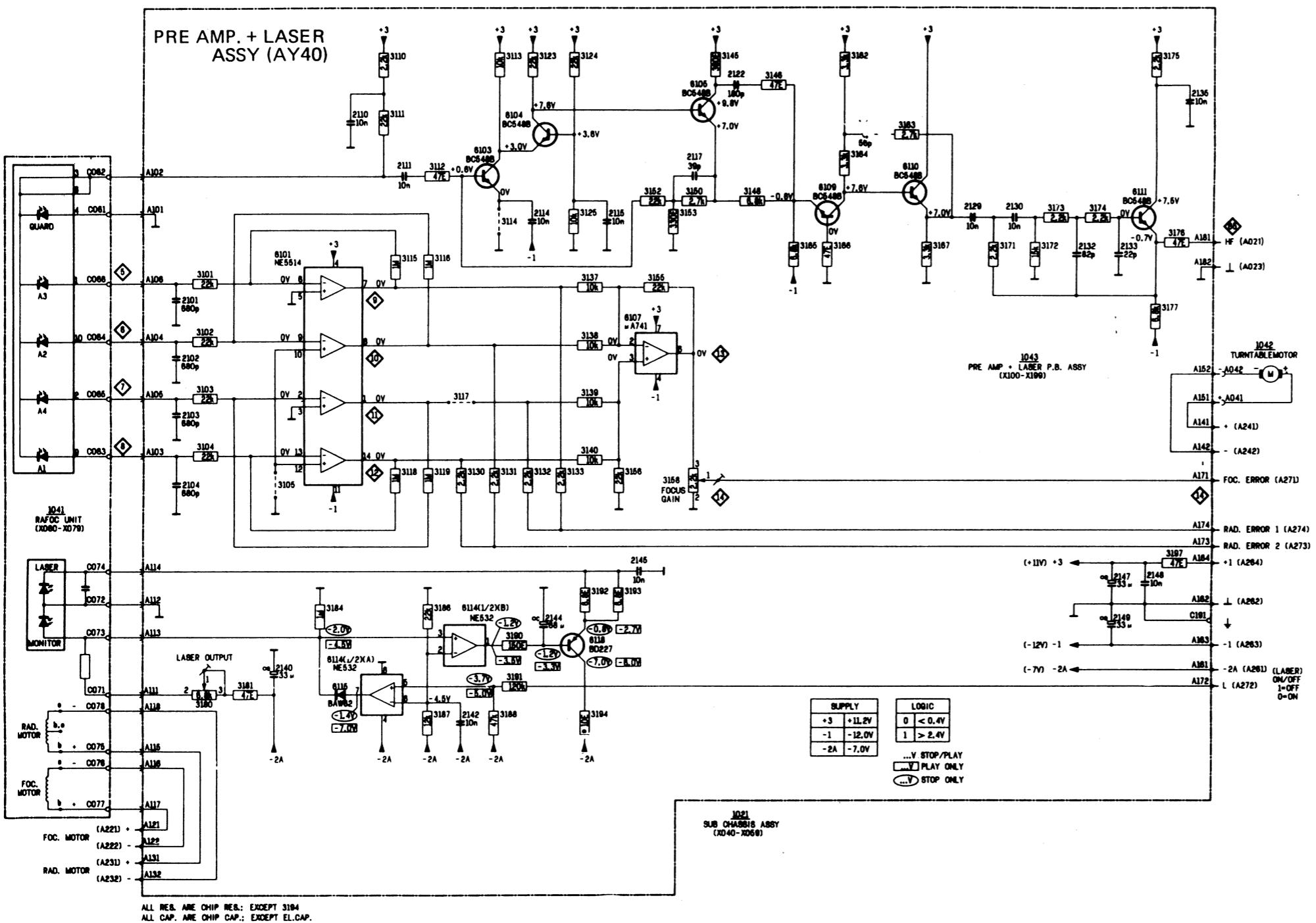
### **8.3 Power Supply (P100) Schematic Diagram and Component Locations**

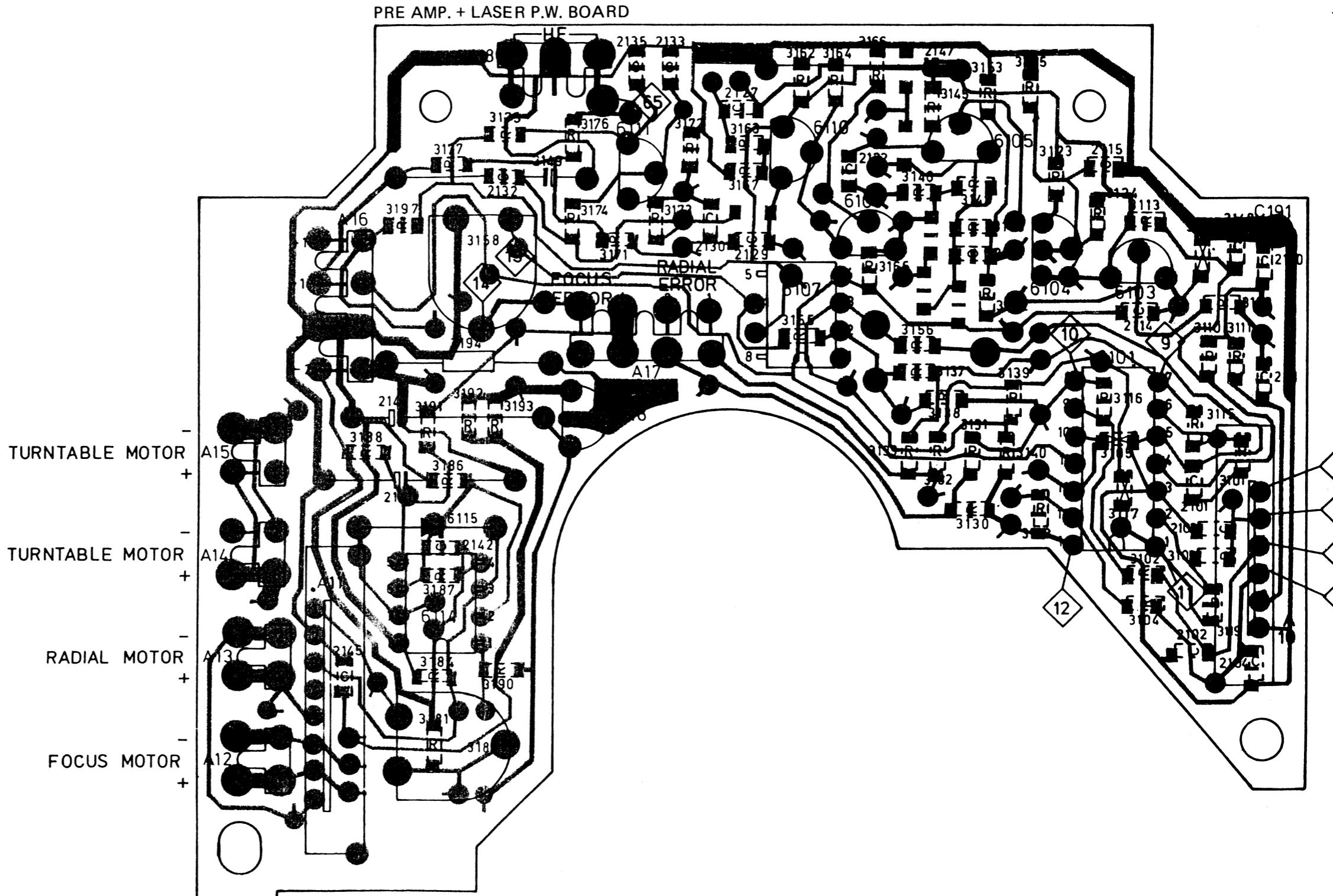
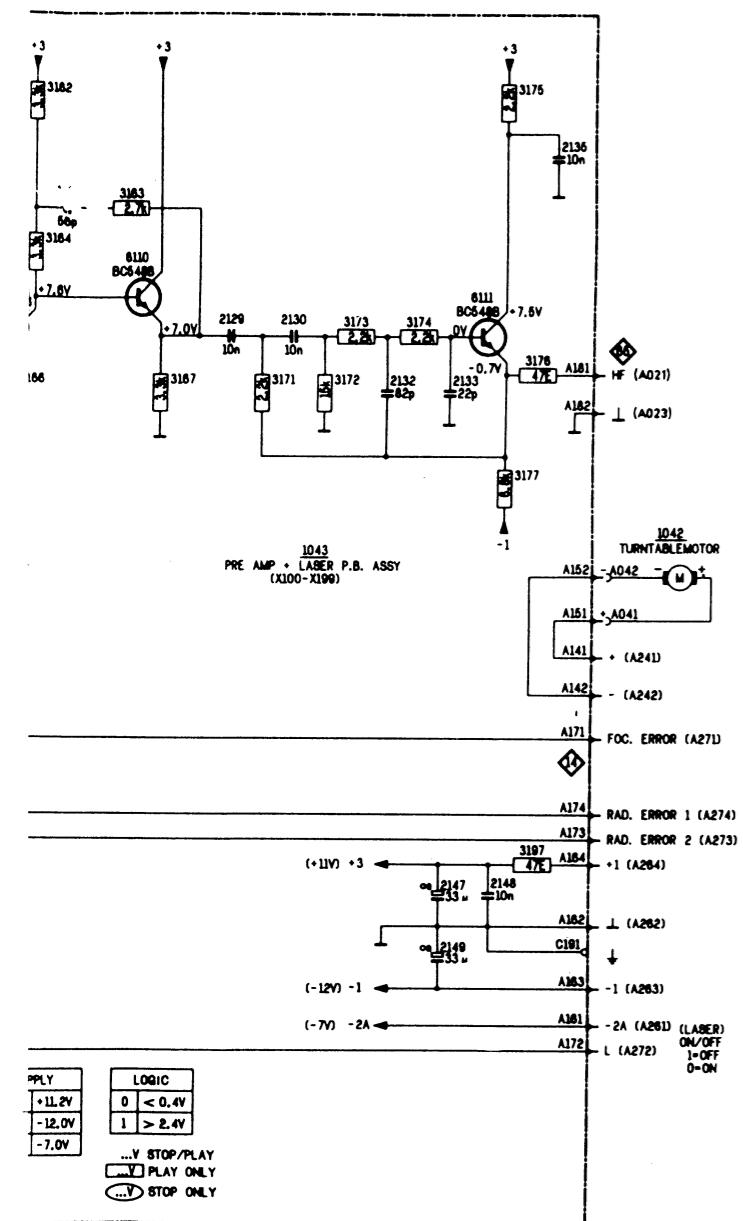


### 8.3 Power Supply (P100) Schematic Diagram and Component Locations



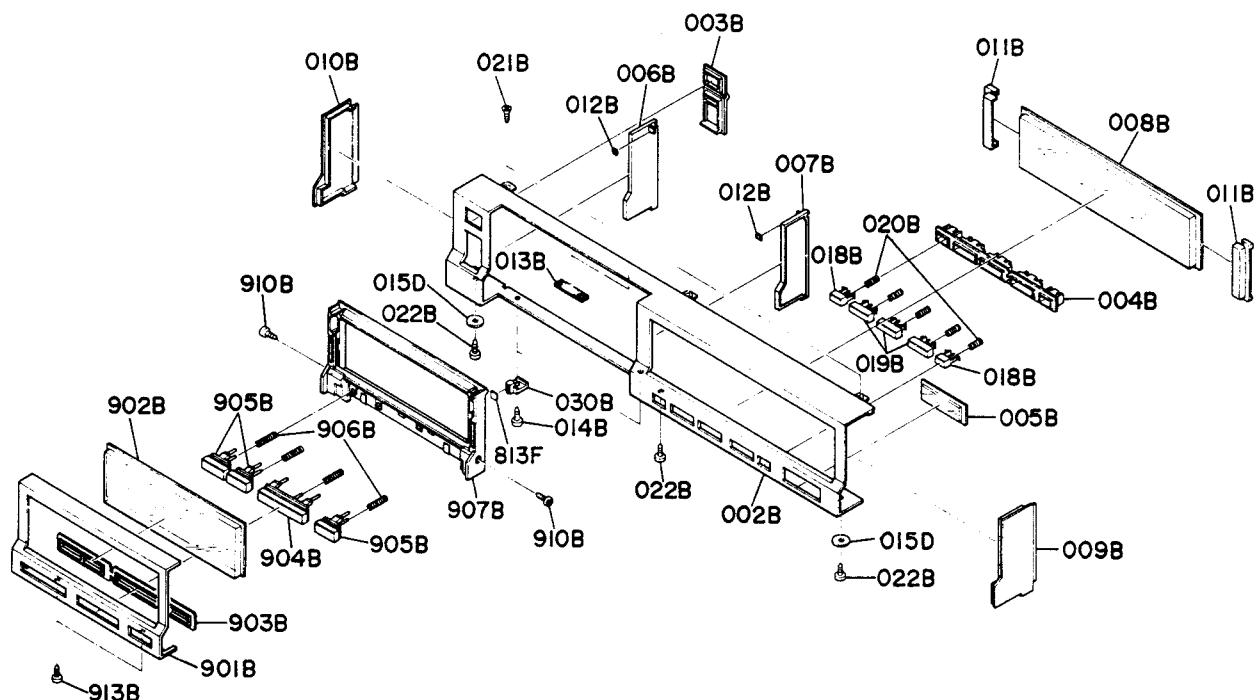
#### 8.4 Pre Amp. + Laser (AY40) Schematic Diagram and Component Locations





## 9. EXPLODED VIEW AND PARTS LIST

- [C01-99] Front Panel

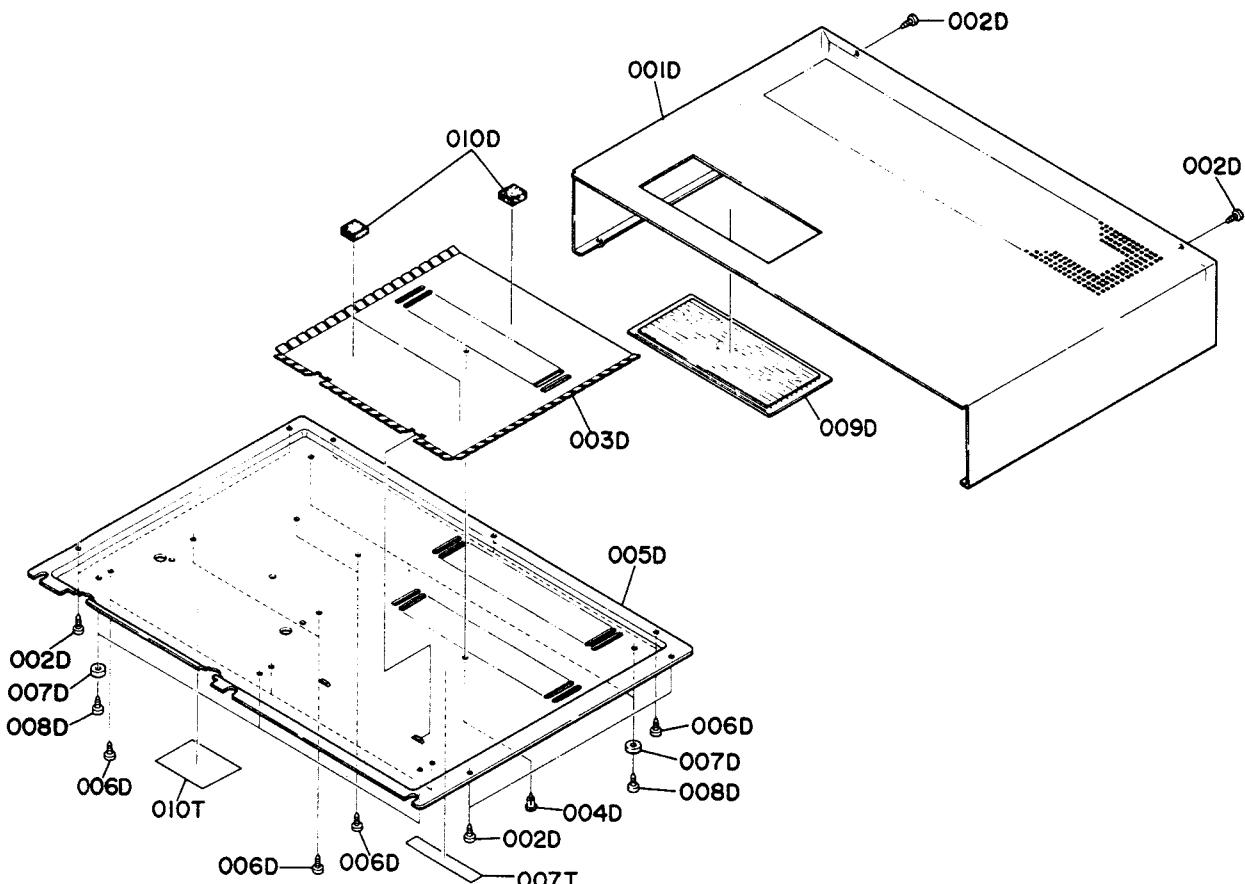


•(N): for Europe  
•(F): for Japan

REF. DESIG.	Q'TY		PART NO.	DESCRIPTION
	N	F		
A	1	1	101K063400	Front Panel Assembly
002B	1	1	101K063010	Escutcheon, Front Panel
003B	1	1	101K259030	Bushing, Power
004B	1	1	101K259010	Bushing, Function
005B	1	1	101K251010	Badge
006B	1	1	101K201020	Divition, (L)
007B	1	1	101K201010	Divition, (R)
008B	1	1	101K158010	Window
009B	1	1	101K067010	Cap, (R)
010B	1	1	101K067020	Cap, (L)
011B	2	2	101K005010	Clamper
012B	2	2	101K056010	Buffer
013B	2	2	101K056030	Buffer

REF. DESIG.	Q'TY		PART NO.	DESCRIPTION
	N	F		
014B	2	2	51280308B0	B.H. Tapped Screw B3 x 8
018B	2	2	101K154010	Knob, Stop/Cancel
019B	3	3	101K154020	Knob
020B	5	5	101K115130	Spring, Knob
021B	2	2	51500306B0	F.H. Taptite Screw F3 x 6
022B	3	3	51280308B0	B.H. Tapped Screw B3 x 8
030B	2	2	101K114020	Stopper
901B	1	1	101K063020	Escutcheon, Door
902B	1	1	101K158030	Window, Door
903B	1	1	101K259060	Bushing
904B	1	1	101K154050	Knob, Play
905B	3	3	101K154060	Knob, FF/REV/Pause
906B	4	4	101K115130	Spring, Knob
907B	1	1	101K271040	Holder, Door
910B	2	2	51060305A9	P.H.M. Screw P3 x 5
913B	2	2	51280308B0	B.H. Tapped Screw B3 x 8
015D	2	2	54110149A0	Flat Washer, L
813F	2	2	101K056060	Buffer

• [C02-99] Lid (Top/Bottom)

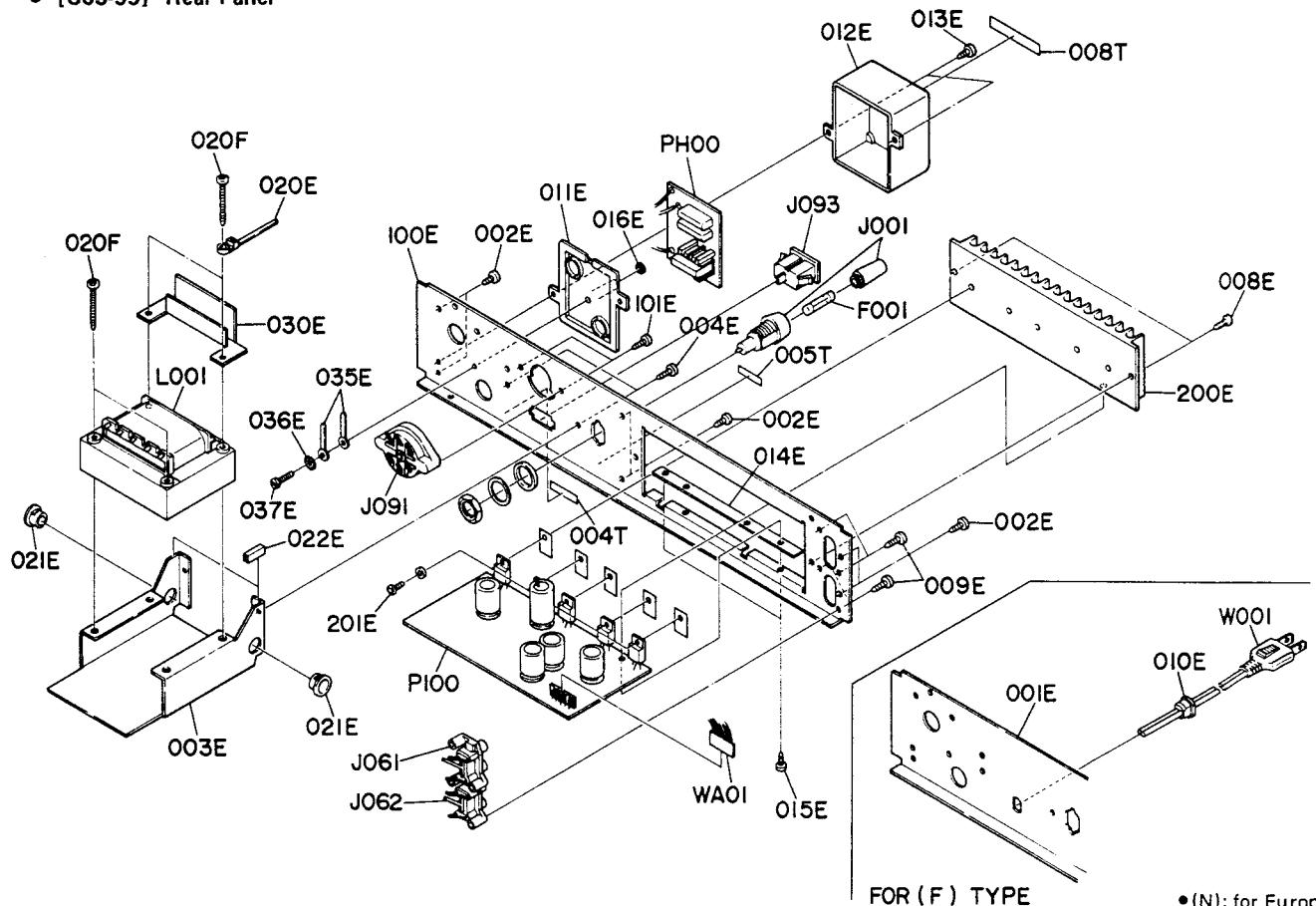


•(N): for Europe  
•(F): for Japan

REF. DESIG.	Q'TY		PART NO.	DESCRIPTION
	N	F		
001D	1	1	101K257030	Lid, Top Cover
002D	6	6	51280305B0	B.H. Tapped Screw B3 x 5
003D	1	1	101K109030	Shield
004D	1	1	2912259020	Bushing
005D	1	1	101K257010	Lid, Bottom Cover
006D	10	10	51280305B0	B.H. Tapped Screw B3 x 5
007D	5	5	136T057010	Leg
008D	5	5	51280305B0	B.H. Tapped Screw B3 x 5
009D	1	1	101K158020	Window
010D	3	3	228H056010	Buffer

REF. DESIG.	Q'TY		PART NO.	DESCRIPTION
	N	F		
007T	1		2911861110	Label, Caution
010T	1	1	101K861030	Label, Laser Caution

- [C03-99] Rear Panel

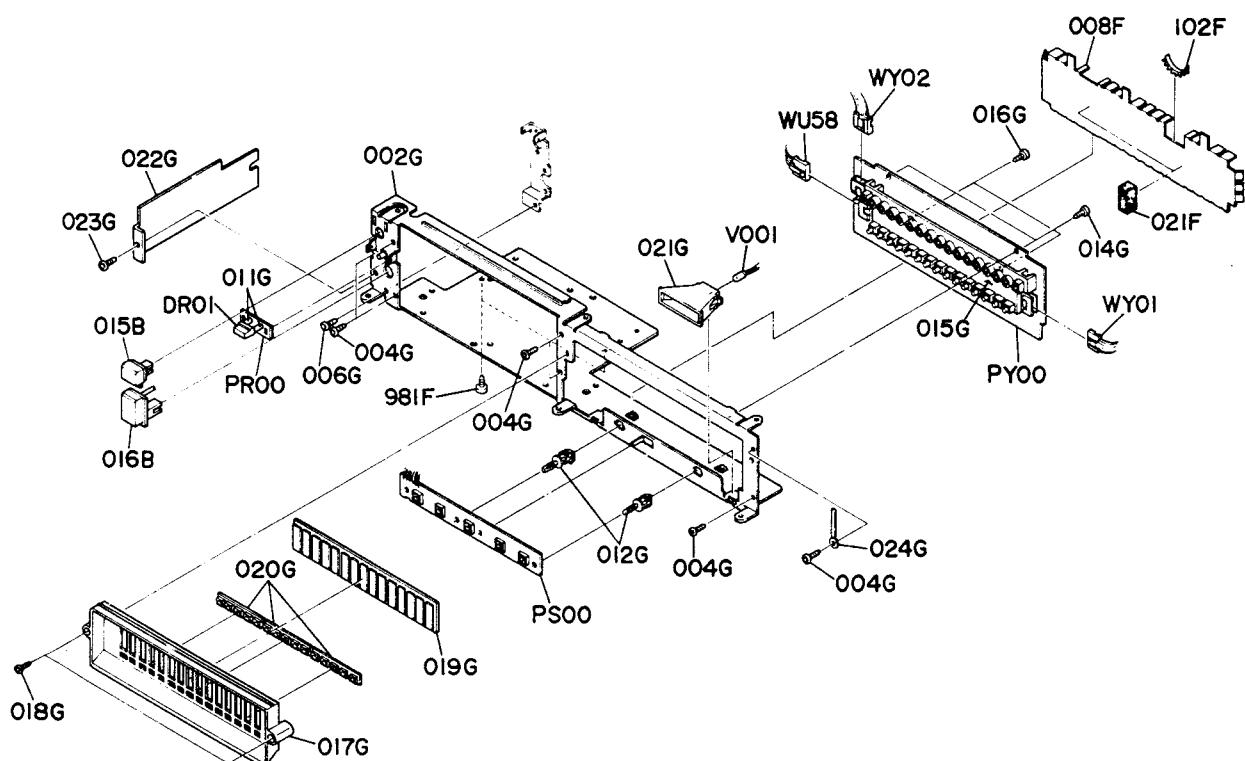


- (N): for Europe
- (F): for Japan

REF. DESIG.	Q'TY		PART NO.	DESCRIPTION	
	N	F			
001E	1	1	101K053080	Cover, Rear Panel	
002E	6	6	51280305U0	B.H. Tapped Screw	B3 x 5
003E	1	1	101K160030	Bracket, Transformer	
004E	2	2	51280305U0	B.H. Tapped Screw	B3 x 5
008E	2	2	51280308U0	B.H. Tapped Screw	B3 x 8
009E	4	4	51280308U0	B.H. Tapped Screw	B3 x 8
010E		1	1455259030	Bushing, AC Cord	
011E	1	1	101K064020	Case, Filter; Bottom	
012E	1	1	101K064030	Case, Filter; Top	
013E	2	2	51280310U0	B.H. Tapped Screw	B3 x 10
014E	1	1	101K120030	Insulator	
015E	2	2	51280310U0	B.H. Tapped Screw	B3 x 10
016E	1	1	101K056020	Buffer	
020E	2	2	101K005030	Clamper	
021E	2	2	101K259080	Bushing	
022E	2	2	101K259090	Bushing	
030E	1		101K120040	Insulator	
035E	2	2	4220005030	Clamper	
036E	1	1	54050300R0	T.L. Washer, OR	
037E	1	1	51280308B0	B.H. Tapped Screw	B3 x 8
100E	1		101K053050	Cover, Rear Panel	
101E	2		51280308U0	B.H. Tapped Screw	B3 x 8
200E	1	1	101K267020	Heatsink	
201E	5	5	51100308S9	B.H.M. Screw	B3 x 8

REF. DESIG.	Q'TY		PART NO.	DESCRIPTION		
	N	F				
020F	4	4	51280435U0	B.H. Tapped Screw	84 x 35	
004T	1	1	2112265010	Indicator		
005T	1		4581861010	Label		
008T	1	1	2991861010	Label		
△ F001	1		FS10025800	Fuse	250mA	250V
△ F001		1	FS10100600	Fuse	1A	250V
± J001	1		YJ08000290	Jack, Fuse Holder		
± J001		1	YT08000300	Jack, Fuse Holder		
J061	1	1	YT02020320	Terminal, RCA Pin (2P)		
J062	1	1	YT02020370	Terminal, RCA Pin (2P)		
△ J091	1		BY05080030	Voltage Selector		
△ J093	1		YP04000580	Plug, AC Inlet		
△ L001	1		TS17627020	Power Transformer		
△ L001		1	TS17627010	Power Transformer		
± W001		1	YC01800190	A.C. Power Cord		
WA01	1	1	YB00070040	Connective Cord, (6P)		

- [P01-99] Front Chassis

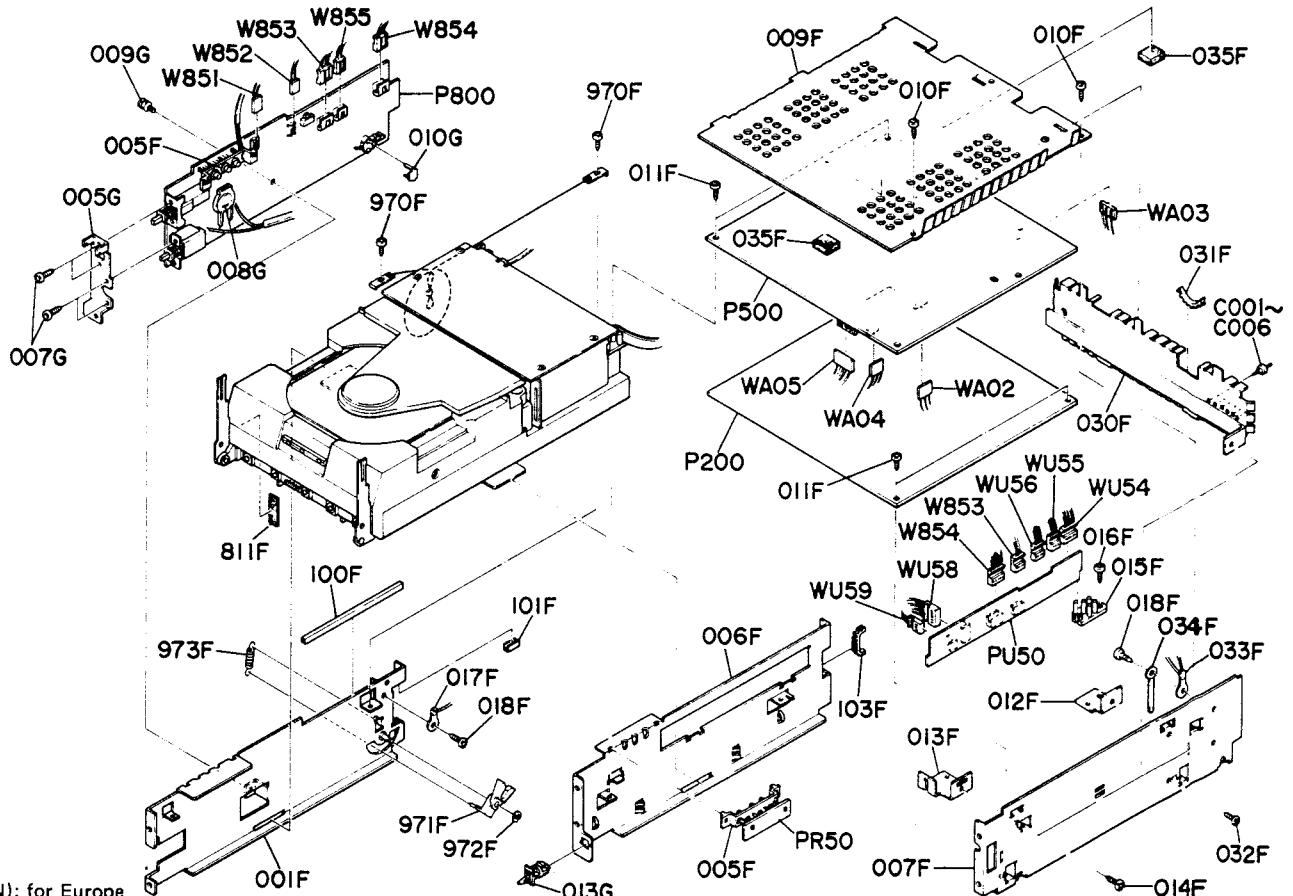


- (N): for Europe
- (F): for Japan

REF. DESIG.	Q'TY		PART NO.	DESCRIPTION	
	N	F			
015B	1	1	101K154040	Knob, Open/Close	
016B	1	1	101K154030	Knob, Power	
008F	1	1	101K109040	Shield, Front	
021F	2	2	2818056030	Buffer	
102F	1	1	101K259110	Bushing	
981F	2	2	51280305B0	B.H. Tapped Screw	B3 x 5
002G	1	1	101K105010	Chassis, Front	
004G	6	6	51280305B0	B.H. Tapped Screw	B3 x 5
006G	1	1	51280305B0	B.H. Tapped Screw	B3 x 5
011G	1	1	101K118020	Spacer	
012G	2	2	3896101010	Support	
014G	2	2	51280305B0	B.H. Tapped Screw	B3 x 5
015G	1	1	101K271010	Holder, LED	
016G	2	2	51500306B0	F.H. Tapped Screw	F3 x 6
017G	1	1	101K280010	Housing, Display	
018G	2	2	51280308B0	B.H. Tapped Screw	B3 x 8

REF. DESIG.	Q'TY		PART NO.	DESCRIPTION		
	N	F				
019G	1	1	101K265010	Indicator, Display		
020G	3	3	101K265020	Indicator, Display		
021G	1	1	101K274010	Reflector, Lamp		
022G	1	1	101K120020	Insulator		
023G	1	1	5128030880	B.H. Tapped Screw	B3 x 8	
024G	1	1	4220005030	Clamper		
V001	1	1	IN10080500	Lamp	60mA	8V
DR01	1	1	HI10032030	L.E.D.		SLP171D
WU58	1	1	YB00250170	Connective Cord, (6P)		
WY01	1	1	YB00240050	Connective Cord, (6P)		
WY02	1	1	YB00150340	Connective Cord, (6P)		

- [P02-99] Chassis Assembly and General Parts

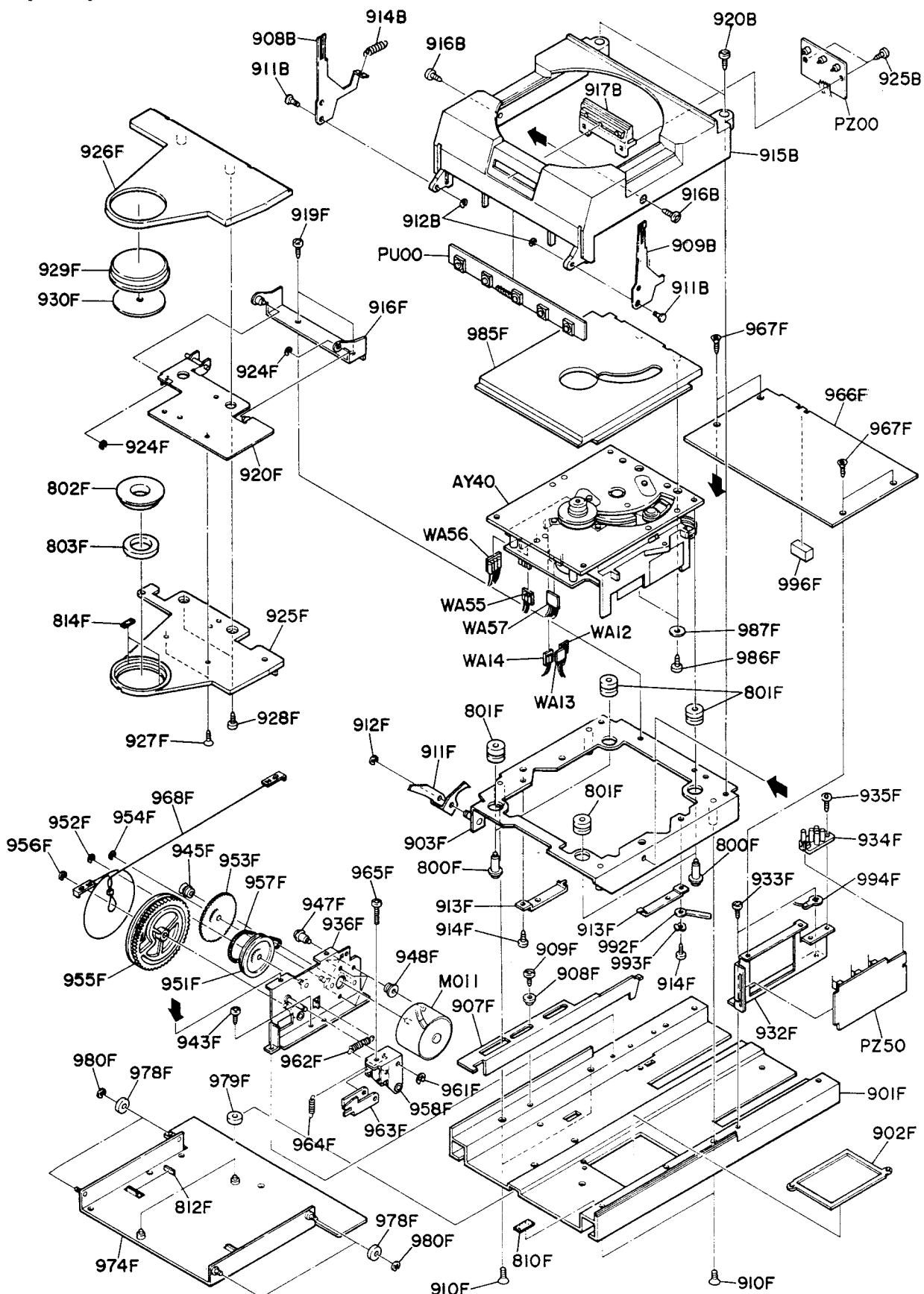


- (N): for Europe
- (F): for Japan

REF. DESIG.	Q'TY		PART NO.	DESCRIPTION	
	N	F			
001F	1	1	101K105400	Chassis Assembly, (L)	
005F	2	2	101K271080	Holder, LED	
006F	1	1	101K105020	Chassis, Center	
007F	1	1	101K105030	Chassis, (R)	
009F	1	1	101K109020	Shield, Top	
010F	2	2	51280305B0	B.H. Tapped Screw	B3 x 5
011F	4	4	51280305B0	B.H. Tapped Screw	B3 x 5
012F	1	1	101K160150	Bracket	
013F	1	1	101K160160	Bracket	
014F	2	2	51280305B0	B.H. Tapped Screw	B3 x 5
015F	1	1	101K271050	Holder	
016F	1	1	51280305B0	B.H. Tapped Screw	B3 x 5
017F	1	1	62030039W0	Lug, Earth	
018F	2	2	51280305B0	B.H. Tapped Screw	B3 x 5
030F	1	1	101K109070	Shield, Rear	
031F	1	1	101K259110	Bushing	
032F	1	1	51280305B0	B.H. Tapped Screw	B3 x 5
033F	1	1	62030049W0	Lug, Earth	
034F	1	1	4220005030	Clamper	
035F	3	3	228H056010	Buffer	
100F	1	1	101K259100	Bushing	
101F	1	1	101K259090	Bushing	
103F	1	1	101K259110	Bushing	
811F	1	1	101K056050	Buffer	
970F	2	2	51280305B0	B.H. Tapped Screw	B3 x 5
971F	1	1	101K002050	Arm, Lock	
972F	1	1	64000300R0	RG Ring, E Type	
973F	1	1	101K115080	Spring, Lock Arm	

REF. DESIG.	Q'TY		PART NO.	DESCRIPTION
	N	F		
005G	1	1	101K160050	Bracket, Power Switch
007G	4	4	51100305A9	B.H.M. Screw B3 x 5
008G	1	1	403H120010	Insulator
009G	1	1	101K118010	Spacer
010G	1	1	101K271070	Holder
013G	1	1	203H101010	Support
C001	6	6	DC18202060	Feedthru Cap. 2000pF
C006				
W851	1	1	YB00150360	Connective Cord, (2P)
W852	1	1	YB00500310	Connective Cord, (2P)
W853	1	1	YB00700180	Connective Cord, (4P)
W854	1	1	YB00650030	Connective Cord, (5P)
W855	1	1	YB00580010	Connective Cord, (3P)
WA02	1	1	YB00180160	Connective Cord
WA03	1	1	YB00170060	Connective Cord
WA04	1	1	YB00170070	Connective Cord
WA05	1	1	YB00170080	Connective Cord
WU51	1	1	YB00380030	Connective Cord, (8P)
WU52	1	1	YB00380030	Connective Cord, (8P)
WU53	1	1	YB00380030	Connective Cord, (8P)
WU54	1	1	YB00380040	Connective Cord, (6P)
WU55	1	1	YB00300640	Connective Cord, (3P)
WU56	1	1	YB00400340	Connective Cord, (4P)
WU58	1	1	YB00250170	Connective Cord, (6P)
WU59	1	1	YB00130080	Connective Cord, (3P)

● [P03-99] Mecha Case and General Parts

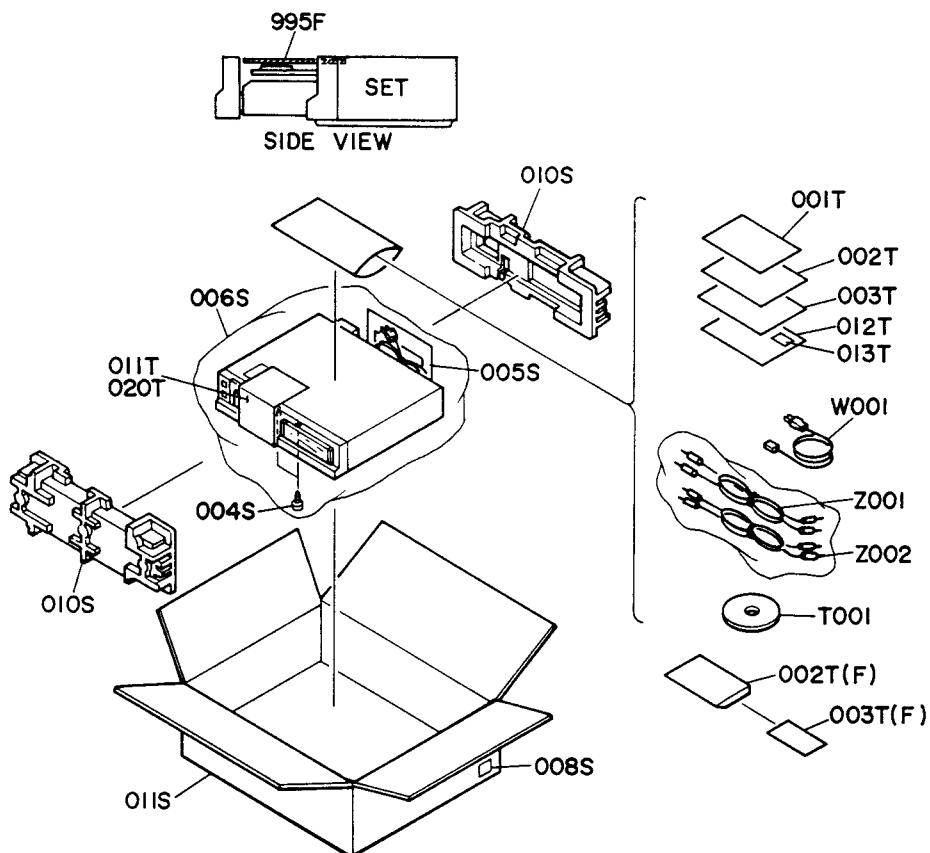


•(N): for Europe  
•(F): for Japan

REF. DESIG.	Q'TY		PART NO.	DESCRIPTION
	N	F		
908B	1	1	101K160120	Bracket, Door (L)
909B	1	1	101K160130	Bracket, Door (R)
911B	2	2	101K112120	Shaft, Door
912B	2	2	64000300R0	RG Ring, E Type
914B	1	1	101K115120	Spring
915B	1	1	101K064010	Case, Mecha
916B	2	2	51100308A9	B.H.M. Screw B3 x 8
917B	1	1	101K160020	Bracket, LED
920B	2	2	51280308B0	B.H. Tapped Screw B3 x 8
925B	2	2	51280308B0	B.H. Tapped Screw B3 x 8
800F	4	4	101K112170	Shaft
801F	4	4	101K259050	Bushing, Mecha
802F	1	1	101K353010	Ring
803F	1	1	101K252010	Pad
810F	1	1	101K056040	Buffer
812F	1	1	101K056050	Buffer
814F	2	2	101K056070	Buffer
901F	1	1	101K051020	Guide
902F	1	1	101K067040	Cap
903F	1	1	101K160420	Bracket Assembly, Mecha
907F	1	1	101K354020	Lever, Door Open
908F	1	1	101K055010	Collar
909F	1	1	51280308B0	B.H. Tapped Screw B3 x 8
910F	4	4	51040308A9	F.H.M. Screw F3 x 8
911F	1	1	101K002040	Arm, Door Open
912F	1	1	64000300R0	RG Ring, E Type
913F	2	2	101K104020	Retainer
914F	2	2	51280305B0	B.H. Tapped Screw B3 x 5
916F	1	1	101K104400	Retainer Assembly
919F	2	2	51280305B0	B.H. Tapped Screw B3 x 5
920F	1	1	101K160400	Bracket, Assembly
924F	2	2	64000300R0	RG Ring, E Type
925F	1	1	101K271030	Holder, Pressure Ring
926F	1	1	101K053070	Cover, Pressure Ring
927F	2	2	51040305A9	F.H.M. Screw F3 x 5
928F	2	2	51280308B0	B.H. Tapped Screw B3 x 8
929F	1	1	101K067030	Cap, Pressure Ring
930F	1	1	101K263020	Brake
932F	1	1	101K160110	Bracket
933F	2	2	51280308B0	B.H. Tapped Screw B3 x 8
934F	1	1	101K271050	Holder
935F	1	1	51280308B0	B.H. Tapped Screw B3 x 8
936F	1	1	101K160410	Bracket Assembly, Motor
943F	2	2	51280308B0	B.H. Tapped Screw B3 x 8
945F	1	1	101K262020	Pulley, Motor
947F	3	3	4367112150	Shaft, Motor
948F	3	3	313Y259010	Bushing
951F	1	1	101K262010	Pulley, Idler
952F	1	1	64001500R0	RG Ring, E Type
953F	1	1	101K058010	Gear, Idler
954F	1	1	64001500R0	RG Ring, E Type
955F	1	1	101K058030	Gear, Drive
956F	1	1	64000200R0	RG Ring, E Type
957F	1	1	101K264010	Belt, Drive
958F	1	1	101K002400	Arm, Drive Assembly

REF. DESIG.	Q'TY		PART NO.	DESCRIPTION
	N	F		
961F	1	1	64000300R0	RG Ring, E Type
962F	1	1	101K115090	Spring
963F	1	1	101K002030	Arm
964F	1	1	101K115070	Spring
965F	1	1	51100315A9	B.H.M. Screw B3 x 15
966F	1	1	101K257020	Lid, Mecha
967F	4	4	51500306B0	F.H. Taptite Screw F3 x 6
968F	1	1	101K125500	Joint, (K)
974F	1	1	101K051400	Guide Assembly, Rai.
978F	4	4	101K358010	Roller, B
979F	2	2	101K358020	Roller, A
980F	4	4	64000200R0	RG Ring, E Type
985F	1	1	101K053060	Cover, Mecha
986F	2	2	51380205A0	P.H. Tapped Screw P2 x 5
987F	2	2	54022601A0	Flat Washer, P.
992F	1	1	4220005020	Clamper
993F	1	1	54050300R0	T.L. Washer, OR
994F	1	1	62030039W0	Lug, Earth
996F	1	1	2818056030	Buffer
AY40	1	1	AY101K0040	Sub Chassis Assembly
M011	1	1	MM01500020	D.C. Motor, Drive
WA12	1	1	YB00209010	Connective Cord, (2P)
WA13	1	1	YB00219010	Connective Cord, (2P)
WA14	1	1	YB00229010	Connective Cord, (2P)
WA55	1	1	YB00279010	Connective Cord, (3P)
WA56	1	1	YB00259010	Connective Cord, (4P)
WA57	1	1	YB00279020	Connective Cord, (4P)
	1	1	QR11718120	Pre-Amp. + Laser P.W. Board Assembly

• [H01-99] Packing Materials



• (N): for Europe  
 • (F): for Japan

REF. DESIG.	Q'TY		PART NO.	DESCRIPTION
	N	F		
004S	2	2	51400350Y0	B.H. Tapped Screw B3 x 50
005S	1		2864804010	Sleeve
006S	1	1	9090808030	Polyethylene Sheet
008S	4		9526019060	Serial No. Card
008S	4		9526019040	Serial No. Card
010S	1	1	101K809030	Cushion, Front/Rear
011S	1	1	101K801030	Packing Case
001T	1		101K851310	Instructions
001T	1		101K851110	Instructions
002T	1		101K851320	Instructions, Spec
002T	1		9631000130	Guarantee Card
003T	1		101K856010	Circuit Diagram
003T	1		128T854010	Guarantee Card
011T	1		101K861040	Label, Transportation
012T	1		9611000050	User's Card
013T	1		9540000010	License
020T	1		101K861050	Label, Transportation

REF. DESIG.	Q'TY		PART NO.	DESCRIPTION
	N	F		
T001	1	1	UD01200020	Disc, Demo
W001	1		ZC01805010	A.C. Power Cord
Z001	1	1	ZD01000240	Connective Cord, Audio Out
Z002	1	1	ZD01000220	Connective Cord, Remocon
995F	1	1	101K269010	Protector

## 10. ELECTRICAL PARTS LIST

•(N): for Europe  
•(F): for Japan

REF. DESIG.	Q'TY		PART NO.	DESCRIPTION	REF. DESIG.	Q'TY		PART NO.	DESCRIPTION
	N	F				N	F		
P100	1	1	YK101K1220	P100-POWER SUPPLY CIRCUIT BOARD	J101	1	1	YP06002420	P100-MISCELLANEOUS
	1		ZZ101K8220	P.W. Board, Power Supply	WA01	1	1	YB00070040	Plug, (6P)
				P.W. Board Assembly					Connective Cord, (6P)
C101	1	1	DK18153300	P100-CAPACITORS	P200	1	1	YG101K0010	P200-SERVO CIRCUIT BOARD
C102	1	1	DK18153300	Ceramic 0.015μF		1		ZZ101K8010	P.W. Board, Servo
C103	1	1	DK18153300	Ceramic 0.015μF					P.W. Board Assembly
C104	1	1	DK18153300	Ceramic 0.015μF	C201	1	1	DA17103010	P200-CAPACITORS
C105	1	1	EA22801630	Elect 2200μF 16V	C203	1	1	DA17103010	Ceramic 0.01μF ±20%
C106	1	1	OA47702510	Elect 470μF 25V	C204	1	1	DF15104350	Ceramic 0.01μF ±20%
C107	1	1	DF17104350	Film 0.1μF ±20%	C205	1	1	DF74273010	Film 0.1μF ±5%
C108	1	1	DK18153300	Ceramic 0.015μF	C207	1	1	EA33601630	Film 0.027μF ±2%
C109	1	1	DF17104350	Film 0.1μF ±20%	C208	1	1	DA17103010	Elect 33μF 16V
C110	1	1	DK18153300	Ceramic 0.015μF	C209	1	1	EA10505030	Ceramic 0.01μF ±20%
C111	1	1	OA33802510	Elect 3300μF 25V	C210	1	1	DD15270370	Elect 1μF 50V
C112	1	1	OA33802510	Elect 3300μF 25V	C211	1	1	DF15104350	Ceramic 27pF ±5%
C113	1	1	OA47702510	Elect 470μF 25V	C212	1	1	DK16331300	Film 0.1μF ±5%
C114	1	1	OA33801610	Elect 3300μF 16V	C213	1	1	DD15270370	Ceramic 330pF ±10%
C115	1	1	OA33801610	Elect 3300μF 16V	C214	1	1	EQ22601630	Elect 22μF 16V
C116	1	1	OA47601610	Elect 47μF 16V	C215	1	1	DF15154350	Film 0.15μF ±5%
C117	1	1	EA22602530	Elect 22μF 25V	C216	1	1	DA17103010	Ceramic 0.01μF ±20%
C118	1	1	EA33601630	Elect 33μF 16V	C217	1	1	EQ22601630	Elect 22μF 16V
C119	1	1	EA33601630	Elect 33μF 16V	C218	1	1	DF15103350	Film 0.01μF ±5%
C120	1	1	DF16104510	Film 0.1μF ±10%	C219	1	1	DF15473350	Film 0.047μF ±5%
C121	1	1	DF16104510	Film 0.1μF ±10%	C223	1	1	DA16331010	Ceramic 330pF ±10%
C122	1	1	DF16104510	Film 0.1μF ±10%	C224	1	1	DA16331010	Ceramic 330pF ±10%
C123	1	1	DK18473320	Ceramic 0.047μF	C225	1	1	DK16331300	Ceramic 330pF ±10%
C124	1	1	OA47601610	Elect 47μF 16V	C228	1	1	DF15104350	Film 0.1μF ±5%
C125	1	1	DF16104510	Film 0.1μF ±10%	C227	1	1	DA16331010	Ceramic 330pF ±10%
				P100-RESISTORS (All Resistors are ±5% and 1/4W)	C233	1	1	DF15474350	Film 0.47μF ±5%
R101	1	1	GD05121140	120Ω	C235	1	1	DA17103010	Ceramic 0.01μF ±20%
R102	1	1	GD05561140	560Ω	C236	1	1	DF74562010	Film 5600pF ±2%
R103	1	1	GD05102140	1KΩ	C237	1	1	DF15333350	Film 0.033μF ±5%
R104	1	1	GD05102140	1KΩ	C238	1	1	DF74562010	Film 5600pF ±2%
R107	1	1	GD05271140	270Ω	C239	1	1	DF55391090	Film 390pF ±5%
R108	1	1	GD05821140	820Ω	C241	1	1	EA33601630	Elect 33μF 16V
R109	1	1	H00001490	Thermistor	C242	1	1	EA33601630	Elect 33μF 16V
R110	1	1	GD05470140	47Ω	C243	1	1	DF15474350	Film 0.47μF ±5%
R111	1	1	GA05220020	22Ω 2W	C244	1	1	DF55681090	Film 680pF ±5%
				P100-SEMICONDUCTORS	C246	1	1	DF74682010	Film 6800pF ±2%
D107	1	1	HD20009290	Diode S2V20	C247	1	1	DF74682010	Film 6800pF ±2%
D108	1	1	HD20009290	Diode S2V20	C250	1	1	EA33601630	Elect 33μF 16V
D109	1	1	HD20009290	Diode S2V20	C251	1	1	DF15224350	Film 0.22μF ±5%
D110	1	1	HD20009290	Diode S2V20	C256	1	1	DF74182010	Film 1800pF ±2%
D111	1	1	HD20003210	Diode 1S2471	C257	1	1	DF74682010	Film 6800pF ±2%
D112	1	1	HD20009290	Diode S2V20	C259	1	1	DF15223350	Film 0.022μF ±5%
D113	1	1	HD20009290	Diode S2V20	C261	1	1	DF74682010	Film 6800pF ±2%
D114	1	1	HD20009290	Diode S2V20	C262	1	1	DF14682010	Film 6800pF ±2%
D115	1	1	HD20009290	Diode S2V20	C265	1	1	EA33601630	Elect 33μF 16V
D116	1	1	HD20003210	Diode 1S2471	C266	1	1	EA33601630	Elect 33μF 16V
D117	1	1	HD20003210	Diode 1S2471	C267	1	1	DF15105350	Film 1μF ±5%
Q101	1	1	HC10043060	IC μPC7812H					
Q102	1	1	HC10044060	IC μPC7912H					
Q103	1	1	HC10079060	IC μPC7918H					
Q104	1	1	HC10013360	IC LM317T					
Q105	1	1	HC10014360	IC LM337T					
Q106	1	1	HT106831D0	Transistor 2SA683(S)					

- (N): for Europe
- (F): for Japan

REF. DESIG.	Q'TY		PART NO.	DESCRIPTION	REF. DESIG.	Q'TY		PART NO.	DESCRIPTION
	N	F				N	F		
<b>P200-RESISTORS (All Resistors are ±5% and 1/4W)</b>									
R201	1	1	GM21447520	47.5KΩ	R291	1	1	GD05473140	47KΩ
R202	1	1	GM21410040	1MΩ	R292	1	1	GD05683140	68KΩ
R203	1	1	GM21482530	825KΩ	R293	1	1	GD05471140	470Ω
R204	1	1	GD05105140	1MΩ	R294	1	1	GD05471140	470Ω
R205	1	1	GD05104140	100KΩ	R298	1	1	GM21447500	475Ω
R206	1	1	GD05474140	470KΩ	R299	1	1	GM21426710	2.67KΩ
R209	1	1	GM21447520	47.5KΩ	R300	1	1	GM21410020	10KΩ
R210	1	1	GD05104140	100KΩ	R301	1	1	GM21410020	10KΩ
R211	1	1	GD05223140	22KΩ	R301	1	1	GD05222140	2.2KΩ
R214	1	1	GD05223140	22KΩ	R304	1	1	GM21410020	10KΩ
R215	1	1	GD05682140	6.8KΩ	R305	1	1	GM21410020	10KΩ
R216	1	1	GD05104140	100KΩ	R306	1	1	GM21426710	2.67KΩ
R217	1	1	GD05333140	33KΩ	R307	1	1	GD05222140	2.2KΩ
R219	1	1	GM21422110	2.21KΩ	R308	1	1	GM21447500	475Ω
R220	1	1	GM21422110	2.21KΩ	R311	1	1	GM21482520	82.5KΩ
R221	1	1	GD05682140	6.8KΩ	R312	1	1	GM21482520	82.5KΩ
R222	1	1	GM21412120	12.1KΩ	R313	1	1	GD05472140	4.7KΩ
R223	1	1	GM21410030	100KΩ	R315	1	1	RA01030070	10KΩ, Trimming
R227	1	1	GD05105140	1MΩ	R316	1	1	GD05473140	47KΩ
R229	1	1	GD05472140	4.7KΩ	R318	1	1	GD05821140	820Ω
R230	1	1	GD05563140	56KΩ	R319	1	1	GD05471140	470Ω
R231	1	1	GD05334140	330KΩ	R320	1	1	GD05152140	1.5KΩ
R233	1	1	GM21410030	100KΩ	R323	1	1	GM21412130	121KΩ
R234	1	1	GD05472140	4.7KΩ	R324	1	1	GM21475020	75KΩ
R235	1	1	GD05472140	4.7KΩ	R325	1	1	GM21475020	75KΩ
R238	1	1	GD05474140	470KΩ	R826	1	1	GM21422130	221KΩ
R239	1	1	GD05473140	47KΩ	R327	1	1	GD05104140	100KΩ
R240	1	1	GD05033140	3.3Ω	R328	1	1	GM21433230	332KΩ
R242	1	1	GD05565140	5.6MΩ	R335	1	1	GD05683140	68KΩ
R243	1	1	GD05565140	5.6MΩ	R336	1	1	GD05472140	4.7KΩ
R244	1	1	GD05472140	4.7KΩ	R340	1	1	GD05103140	10KΩ
R245	1	1	GD05154140	150KΩ	R341	1	1	GD05103140	10KΩ
R246	1	1	GD05101140	100Ω	R342	1	1	GD05683140	68KΩ
R250	1	1	GD05683140	68KΩ	R345	1	1	GD05473140	47KΩ
R251	1	1	GD05683140	68KΩ	R346	1	1	GD05473140	47KΩ
R252	1	1	GD05681140	680Ω	R349	1	1	GD05183140	18KΩ
R253	1	1	GD05472140	4.7KΩ	R350	1	1	GD05184140	180KΩ
R254	1	1	GD05104140	100KΩ	R351	1	1	GD05333140	33KΩ
R255	1	1	GD05333140	33KΩ	R352	1	1	GD05273140	27KΩ
R256	1	1	GA05220020	22Ω	R353	1	1	GD05472140	4.7KΩ
R257	1	1	GD05223140	22KΩ	R356	1	1	GM21435620	35.6KΩ
R258	1	1	GD05272140	2.7KΩ	R357	1	1	GM21439210	3.92KΩ
R259	1	1	GD05682140	6.8KΩ	R358	1	1	GM21435630	356KΩ
R260	1	1	GD05683140	68KΩ	R359	1	1	GD05272140	2.7KΩ
R261	1	1	GD05683140	68KΩ	R360	1	1	GD05104140	100KΩ
R262	1	1	GD05332140	3.3KΩ	R362	1	1	GD05104140	100KΩ
R264	1	1	GD05332140	3.3KΩ	R363	1	1	GD05103140	10KΩ
R265	1	1	GD05332140	3.3KΩ	R364	1	1	GD05472140	4.7KΩ
R267	1	1	GD05222140	2.2KΩ	R365	1	1	GD05474140	470KΩ
R268	1	1	GD05222140	2.2KΩ	R367	1	1	GD05474140	470KΩ
R276	1	1	GD05472140	4.7KΩ	R370	1	1	GM21426320	26.3KΩ
R279	1	1	GM21447520	47.5KΩ	R372	1	1	GD05473140	47KΩ
R280	1	1	GM21447520	47.5KΩ	R373	1	1	GM21418230	182KΩ
R281	1	1	GD05474140	470KΩ	R375	1	1	GD05473140	47KΩ
R282	1	1	GM21447520	47.5KΩ	R376	1	1	GD05472140	4.7KΩ
R283	1	1	GM21447520	47.5KΩ	R378	1	1	GD05273140	27KΩ
R284	1	1	GD05103140	10KΩ	R379	1	1	GD05273140	27KΩ
R285	1	1	GD05223140	22KΩ	R380	1	1	GD05332140	3.3KΩ
R287	1	1	GM21468110	6.81KΩ	R381	1	1	GD05121140	120Ω
R288	1	1	GM21468110	6.81KΩ	R382	1	1	GD05121140	120Ω

•(N): for Europe  
•(F): for Japan

REF. DESIG.	Q'TY		PART NO.	DESCRIPTION	REF. DESIG.	Q'TY		PART NO.	DESCRIPTION
	N	F				N	F		
R384	1	1	HH00001490	Thermistor	P500	1	1	YK101K1210	P500-DECODER CIRCUIT BOARD
R385	1	1	HH00001490	Thermistor		1	1	ZZ101K8210	P.W. Board, Decoder
R386	1	1	GD05332140	3.3KΩ					P.W. Board Assembly
R387	1	1	GD05022140	2.2Ω	C501	1	1	DF74223010	P500-CAPACITORS
R391	1	1	GM21456210	5.62KΩ	C502	1	1	DF74223010	Film 0.022μF ±2%
R392	1	1	GM21413020	13KΩ	C503	1	1	DK16222300	Film 0.022μF ±2%
R393	1	1	GD05223140	22KΩ	C505	1	1	DF55272090	Ceramic 2200pF ±10%
R394	1	1	GM21433230	332KΩ	C506	1	1	DK16472300	Film 2700pF ±5%
R395	1	1	GD05223140	22KΩ					Ceramic 4700pF ±10%
R396	1	1	GD05563140	56KΩ	C508	1	1	DK16821300	P500-DECODER CIRCUIT BOARD
R397	1	1	GD05563140	56KΩ	C511	1	1	DK18223310	P.W. Board, Decoder
R398	1	1	GD05182140	1.8KΩ	C512	1	1	DK18223310	P.W. Board Assembly
R399	1	1	GD05152140	1.5KΩ	C514	1	1	DF15104350	P500-CAPACITORS
					C515	1	1	DF15104350	Film 0.1μF ±5%
					C516	1	1	DK18103310	Ceramic 0.01μF
					C520	1	1	DK16471300	Ceramic 470pF ±10%
					C521	1	1	DK16471300	Ceramic 470pF ±10%
					C523	1	1	DK18103310	Ceramic 0.01μF
					C525	1	1	DK16222300	Ceramic 2200pF ±10%
					C527	1	1	DF15104350	Film 0.1μF ±5%
					C531	1	1	DK18104020	Ceramic 0.1μF
					C533	1	1	EA10505030	Elect 1μF 50V
					C534	1	1	DD15270370	Ceramic 27pF ±5%
					C535	1	1	DD15270370	Ceramic 27pF ±5%
					C537	1	1	DK18223310	Ceramic 0.022μF
					C538	1	1	DK18223310	Ceramic 0.022μF
					C539	1	1	DK18223310	Ceramic 0.022μF
					C542	1	1	DD15680370	Ceramic 68pF ±5%
					C543	1	1	DD15330370	Ceramic 33pF ±5%
					C550	1	1	DK18223310	Ceramic 0.022μF
					C551	1	1	DK18223310	Ceramic 0.022μF
					C555	1	1	DK18223310	Ceramic 0.022μF
					C556	1	1	DK18223310	Ceramic 0.022μF
					C557	1	1	EA22602530	Elect 22μF 25V
					C558	1	1	EA22602530	Elect 22μF 25V
					C559	1	1	DK18223310	Ceramic 0.022μF
					C560	1	1	DK18223310	Ceramic 0.022μF
					C562	1	1	DK18223310	Ceramic 0.022μF
					C563	1	1	EA22700630	Elect 220pF 6.3V
					C564	1	1	DK16821300	Ceramic 820pF ±10%
					C566	1	1	DF74512010	Film 5100pF ±2%
					C567	1	1	DF74153010	Film 0.015μF ±2%
					C568	1	1	DF74222010	Film 2200pF ±2%
					C570	1	1	DF74222010	Film 2200pF ±2%
					C571	1	1	DF74122010	Film 1200pF ±2%
					C573	1	1	OA47601610	Elect 47μF 16V
					C575	1	1	DD15101370	Ceramic 100pF ±5%
					C580	1	1	DF15474350	Film 0.47μF ±5%
					C581	1	1	DF15474350	Film 0.47μF ±5%
					C582	1	1	DF15104350	Film 0.1μF ±5%
					C583	1	1	DF15104350	Film 0.1μF ±5%
					C584	1	1	DF15104350	Film 0.1μF ±5%
					C585	1	1	DK18223310	Ceramic 0.022μF
					C586	1	1	DK18223310	Ceramic 0.022μF
X201	1	1	XB108002L3	Crystal, 6MHz					
250E	2	2	415H267010	Heatsink					
251E	2	2	51280306B0	B.H. Tapped Screw B3 × 6					
WA02	1	1	YB00180160	Connective Cord					
WA03	1	1	YB00170060	Connective Cord					
WA04	1	1	YB00170070	Connective Cord					
WA05	1	1	YB00170080	Connective Cord					

•(N): for Europe  
•(F): for Japan

REF. DESIG.	Q'TY		PART NO.	DESCRIPTION		REF. DESIG.	Q'TY		PART NO.	DESCRIPTION	
	N	F					N	F			
C587	1	1	DK18223310	Ceramic	0.022μF	R527	1	1	GD05391140	390Ω	
C588	1	1	DK18223310	Ceramic	0.022μF	R529	1	1	GD05223140	22KΩ	
C589	1	1	DK18223310	Ceramic	0.022μF	R530	1	1	GD05103140	10KΩ	
C590	1	1	DF16104510	Film	0.1μF ±10%	R532	1	1	GD05332140	3.3KΩ	
C591	1	1	DK16152300	Ceramic	1500pF ±10%	R534	1	1	GD05103140	10KΩ	
C593	1	1	EA22602530	Elect	22μF 25V	R535	1	1	GD05104140	100KΩ	
C594	1	1	DK18223310	Ceramic	0.022μF	R536	1	1	GD05104140	100KΩ	
C595	1	1	DK18223310	Ceramic	0.022μF	R537	1	1	GD05274140	270KΩ	
C597	1	1	DK18223310	Ceramic	0.022μF	R538	1	1	GD05393140	39KΩ	
C599	1	1	DK16321300	Ceramic	820pF ±10%	R539	1	1	GD05010140	1Ω	
C601	1	1	DF74512010	Film	5100pF ±2%	R540	1	1	GD05472140	4.7KΩ	
C602	1	1	DF74153010	Film	0.015μF ±2%	R541	1	1	GD05472140	4.7KΩ	
C603	1	1	DF74222010	Film	2200pF ±2%	R542	1	1	GD05473140	47KΩ	
C605	1	1	DF74222010	Film	2200pF ±2%	R543	1	1	GD05104140	100KΩ	
C606	1	1	DF74122010	Film	1200pF ±2%	R544	1	1	GD05472140	4.7KΩ	
C608	1	1	OA47601610	Elect	47μF 16V	R545	1	1	GD05105140	1MΩ	
C609	1	1	DF16104510	Film	0.1μF ±10%	R547	1	1	GD05472140	4.7KΩ	
C610	1	1	DD15101370	Ceramic	100pF ±5%	R548	1	1	GD05332140	3.3KΩ	
C615	1	1	EA22602530	Elect	22μF 25V	R549	1	1	GD05472140	4.7KΩ	
C617	1	1	DF16104510	Film	0.1μF ±10%	R550	1	1	GD05822140	8.2KΩ	
C618	1	1	DF16104510	Film	0.1μF ±10%	R555	1	1	GD05102140	1KΩ	
C619	1	1	DF16104510	Film	0.1μF ±10%	R558	1	1	GD05105140	1MΩ	
C621	1	1	EA22602530	Elect	22μF 25V	R560	1	1	GD05102140	1KΩ	
C623	1	1	DK18223310	Ceramic	0.022μF	R563	1	1	GD05562140	5.6KΩ	
C624	1	1	EA22602530	Elect	22μF 25V	R564	1	1	GD05102140	1KΩ	
C626	1	1	EA22602530	Elect	22μF 25V	R565	1	1	GD05102140	1KΩ	
C628	1	1	EA22602530	Elect	22μF 25V	R566	1	1	GD05102140	1KΩ	
C630	1	1	DF15474350	Film	0.47μF ±5%	R567	1	1	GD05102140	1KΩ	
C631	1	1	DF15474350	Film	0.47μF ±5%	R569	1	1	GM21410000	100Ω	
C632	1	1	DF15104350	Film	0.1μF ±5%	R570	1	1	GM21426710	2.67KΩ	
C633	1	1	DF15104350	Film	0.1μF ±5%	R571	1	1	GM21410000	100Ω	
C634	1	1	DF15104350	Film	0.1μF ±5%	R572	1	1	GM21410010	1KΩ	
C635	1	1	DK18223310	Ceramic	0.022μF	R573	1	1	GD05105140	1MΩ	
C636	1	1	DK18223310	Ceramic	0.022μF	R574	1	1	GM21428210	1.82KΩ	
C637	1	1	DK18223310	Ceramic	0.022μF	R576	1	1	GM21422110	2.21KΩ	
C638	1	1	DK18223310	Ceramic	0.022μF	R577	1	1	GM21422110	2.21KΩ	
C639	1	1	DK18223310	Ceramic	0.022μF	R579	1	1	GM21410020	10KΩ	
C641	1	1	DK16152300	Ceramic	1500pF ±10%	R580	1	1	GM21410030	100KΩ	
<b>P500-RESISTORS</b> (All Resistors are ±5% and 1/4W)											
R501	1	1	GD05825140		8.2MΩ	R581	1	1	GD05470140	47Ω	
R502	1	1	GD05824140		820KΩ	R584	1	1	GM214825G0	82.5Ω	
R503	1	1	GM21417820		17.8KΩ	R585	1	1	GM21456200	562Ω	
R504	1	1	GD05824140		820KΩ	R586	1	1	RA05010050	500Ω, Trimming	
R505	1	1	GM21417830		178KΩ	R587	1	1	GM21426700	267Ω	
R506	1	1	GD05681140		680Ω	R590	1	1	GM21410000	100Ω	
R507	1	1	GM21417820		17.8KΩ	R591	1	1	GM21426710	2.67KΩ	
R508	1	1	GD05825140		8.2MΩ	R592	1	1	GM21410000	100Ω	
R510	1	1	GM21439210		3.92KΩ	R593	1	1	GM21410010	1KΩ	
R511	1	1	GM21410020		10KΩ	R594	1	1	GD05105140	1MΩ	
R512	1	1	GM21410030		100KΩ	R595	1	1	GM21418210	1.82KΩ	
R513	1	1	GM21410030		100KΩ	R597	1	1	GM21422110	2.21KΩ	
R514	1	1	GD05105140		1MΩ	R598	1	1	GM21422110	2.21KΩ	
R515	1	1	GD05010140		1Ω	R600	1	1	GM21410020	10KΩ	
R516	1	1	GD05105140		1MΩ	R601	1	1	GM21410030	100KΩ	
R519	1	1	GD05222140		2.2KΩ	R602	1	1	GD05470140	47Ω	
R520	1	1	GD05223140		22KΩ	R605	1	1	GM214825G0	82.5Ω	
R521	1	1	GD05103140		10KΩ	R606	1	1	GM21461900	619Ω	
R523	1	1	GD05222140		2.2KΩ	R607	1	1	GD05151140	150Ω	
R525	1	1	GD05222140		2.2KΩ	R608	1	1	GD05471140	470Ω	

•(N): for Europe  
•(F): for Japan

REF. DESIG.	Q'TY		PART NO.	DESCRIPTION	REF. DESIG.	Q'TY		PART NO.	DESCRIPTION
	N	F				N	F		
<b>P500-SEMICONDUCTOR</b>									
D539	1	1	HD40004030	Varicap	SVC303 : -GR				
D540	1	1	HD40004030	Varicap	SVC303Y-GR				
D541	1	1	HD30004020	Zener	MA1051				
D544	1	1	HD20001210	Diode	1S2473C				
D545	1	1	HD20001210	Diode	1S2473C				
D546	1	1	HD20001210	Diode	1S2473C				
D548	1	1	HD20001210	Diode	1S2473C				
D549	1	1	HD20001210	Diode	1S2473C				
D550	1	1	HD20001210	Diode	1S2473C				
D551	1	1	HD20001210	Diode	1S2473C				
D555	1	1	HD20001210	Diode	1S2473C				
D556	1	1	HD20001210	Diode	1S2473C				
D557	1	1	HD20001210	Diode	1S2473C				
D558	1	1	HD20001210	Diode	1S2473C				
D559	1	1	HD20001210	Diode	1S2473C				
<b>P800-MOTOR/REMOCON CIRCUIT BOARD</b>									
P800	1	1			YK101K1710				
					ZZ101K8710				
<b>P800-CAPACITORS</b>									
C801	1	1			EA22601630				
C802	1	1			EA10505030				
C803	1	1			DK18103300				
C804	1	1			EA10701030				
C805	1	1			EA47601030				
C806	1	1			DK18103300				
C807	1	1			EA10701030				
C808	1	1			EQ10505030				
C851	1	1			EA22602530				
C852	1	1			EA10701030				
C853	1	1			DK18103300				
C854	1	1			DK16221300				
C855	1	1			DK16221300				
C856	1	1			EA10505030				
C857	1	1			DK18103300				
C858	1	1			EA22601630				
C589	1	1			OA47601610				
± G801	1				DK18103840				
± G801	1				DK18103850				
<b>P800-RESISTORS</b>									
(All Resistors are ±5% and 1/4W)									
R801	1	1			GD05392140				
						3.9KΩ			
R802	1	1			GD05103140				
						10KΩ			
R803	1	1			GD05103140				
						10KΩ			
R804	1	1			GA05181010				
						180Ω	1W		
R805	1	1			GD05562140				
						5.6KΩ			
R806	1	1			GD05472140				
						4.7KΩ			
R807	1	1			GD05223140				
						22KΩ			
R808	1	1			GD05223140				
						22KΩ			
R809	1	1			GD05103140				
						10KΩ			
R810	1	1			GD05682140				
						6.8KΩ			
R811	1	1			GD05682140				
						6.8KΩ			
R812	1	1			GD05103140				
						10KΩ			
R813	1	1			GD05103140				
						10KΩ			
R814	1	1			GD05332140				
						3.3KΩ			
R815	1	1			GD05333140				
						33KΩ			
R816	1	1			GD05472140				
						4.7KΩ			
R817	1	1			GD05392140				
						3.9KΩ			
R818	1	1			GD05332140				
						3.3KΩ			
R819	1	1			GD05103140				
						10KΩ			
R820	1	1			GG05082120				
						8.2Ω	1/4W		
R821	1	1			GD05103140				
						10KΩ			
R822	1	1			GD05222140				
						2.2KΩ			
R823	1	1			GD05821140				
						820Ω			
R824	1	1			GD05472140				
						4.7KΩ			
R825	1	1			GA05330020				
						33Ω	2W		
R826	1	1			GG05122120				
						1.2KΩ	1/4W		
R827	1	1			GG05122120				
						1.2KΩ	1/4W		

- (N): for Europe
- (F): for Japan

• (N): for Europe  
• (F): for Japan

REF. DESIG.	Q'TY		PART NO.	DESCRIPTION	REF. DESIG.	Q'TY		PART NO.	DESCRIPTION	
	N	F				N	F			
PS00	1	1	YK101K1420	<b>PS00-PROGRAM KEY SW. CIRCUIT BOARD</b> P.W. Board, Program Key SW. P.W. Board Assembly	PY00	1	1	YK101K1410	<b>PY00-DISPLAY CIRCUIT BOARD</b> P.W. Board, Display P.W. Board Assembly	
	1		ZZ101K8420			1		ZZ101K8410		
RS01	1	1	GD05821140	<b>PS00-RESISTORS</b> 820Ω ±5% 1W	CY01	1	1	EA33601030	<b>PY00-CAPACITORS</b> Elect 33μF 10V	
RS02	1	1	GD05821140	820Ω ±5% 1W	CY02	1	1	EA33601030	Elect 33μF 10V	
RS03	1	1	GD05821140	820Ω ±5% 1W	CY03	1	1	DK18103300	Ceramic 0.01μF	
RS04	1	1	GD05821140	820Ω ±5% 1W	CY04	1	1	DK18103300	Ceramic 0.01μF	
SS01	1	1	SP01010580	<b>PS00-SWITCHES</b> Push Switch, All Cancel	RY01	1	1	GD05821140	<b>PY00-RESISTORS</b> (All Resistors are ±5% and 1W)	
SS02	1	1	SP01010580	Push Switch, Program Sel	RY02	1	1	GD05821140	820Ω	
SS03	1	1	SP01010580	Push Switch, Preset	RY03	1	1	GD05821140	820Ω	
SS04	1	1	SP01010580	Push Switch, Repeat	RY04	1	1	GD05821140	820Ω	
SS05	1	1	SP01010580	Push Switch, Cancel	RY05	1	1	GD05680140	68Ω	
					RY06	1	1	GD05332140	3.3KΩ	
					RY07	1	1	GD05821140	820Ω	
PU00	1	1	YK101K1430	<b>PU00-MODE KEY SWITCH CIRCUIT BOARD</b> P.W. Board, Mode Key Switch	QY01	1	1	HC10012360	<b>PY00-SEMICONDUCTORS</b>	
	1		ZZ101K8430	P.W. Board Assembly	QY02	1	1	HC10017270	IC MM5450N	
SU01	1	1	SP01010580	Push Switch, REV	DY01	1	1	HI10017050	IC HEF4094	
SU02	1	1	SP01010580	Push Switch, FF	DY02	1	1	HI10017050	L.E.D. TLPG-144	
SU03	1	1	SP01010580	Push Switch, PLAY/NEXT	DY03	1	1	HI10017050	L.E.D. TLPG-144	
SU04	1	1	SP01010580	Push Switch, PLAY/NEXT	DY04	1	1	HI10017050	L.E.D. TLPG-144	
SU05	1	1	SP01010580	Push Switch, PAUSE	DY05	1	1	HI10017050	L.E.D. TLPG-144	
					DY06	1	1	HI10017050	L.E.D. TLPG-144	
					DY07	1	1	HI10017050	L.E.D. TLPG-144	
					DY08	1	1	HI10017050	L.E.D. TLPG-144	
PU50	1	1	YK101K1440	<b>PU50-SIGNAL RELAY 2 CIRCUIT BOARD</b> P.W. Board, Signal Relay 2	DY09	1	1	HI10017050	L.E.D. TLPG-144	
	1		ZZ101K8440	P.W. Board Assembly	DY10	1	1	HI10017050	L.E.D. TLPG-144	
JU51	1	1	YJ06002680	Jack	DY11	1	1	HI10017050	L.E.D. TLPG-144	
JU52	1	1	YJ06002680	Jack	DY12	1	1	HI10017050	L.E.D. TLPG-144	
JU53	1	1	YJ06002680	Jack	DY13	1	1	HI10017050	L.E.D. TLPG-144	
JU54	1	1	YP06003040	Plug	DY14	1	1	HI10017050	L.E.D. TLPG-144	
JU55	1	1	YP06003010	Plug	DY15	1	1	HI10017050	L.E.D. TLPG-144	
JU56	1	1	YP06003020	Plug	DY51	~	15	15	HI10040020	L.E.D. LN422YP
JU57	1	1	YP06003020	Plug	DY65					
JU58	1	1	YP10002020	Plug	DY71	1	1	HI10030020	L.E.D. LN224RP	
JU59	1	1	YP10001990	Plug	DY72	1	1	HI10030020	L.E.D. LN224RP	
JU60	1	1	YP06003030	Plug	DY81	1	1	HD20005010	Diode WD6B	
SU51	1	1	SP01010580	Push Switch, Play	DY82	1	1	HD20005010	Diode WD6B	
WU51	1	1	YB00380030	Connective Cord, (8P)	JY01	1	1	YP06003040	<b>PY00-MISCELLANEOUS</b>	
WU52	1	1	YB00380030	Connective Cord, (8P)	JY02	1	1	YP06003040	Plug	
WU53	1	1	YB00380030	Connective Cord, (8P)	JY58	1	1	YP06003040	Plug	
WU54	1	1	YB00380040	Connective Cord, (6P)						
WU55	1	1	YB00300640	Connective Cord, (3P)	WY01	1	1	YB00240050	Connective Cord, (6P)	
WU56	1	1	YB00400340	Connective Cord, (4P)	WY02	1	1	YB00150340	Connective Cord, (6P)	
WU58	1	1	YB00250170	Connective Cord, (6P)						
WU59	1	1	YB00130080	Connective Cord, (3P)						

• (N): for Europe  
• (F): for Japan

REF. DESIG.	Q'TY		PART NO.	DESCRIPTION
	N	F		
PZ00	1	1	YK101K1750	PZ00-MODE INDICATOR CIRCUIT BOARD
	1		ZZ101K8750	P.W. Board, Mode Indicator P.W. Board, Assembly
RZ01	1	1	GD05103140	PZ00-RESISTORS (All Resistors are ±5% and 1/4W)
RZ02	1	1	GD05152140	10KΩ
RZ03	1	1	GD05103140	1.5KΩ
RZ04	1	1	GD05223140	10KΩ
RZ05	1	1	GD05121140	22KΩ
				120Ω
DZ01	1	1	HI10021300	PZ00-SEMICONDUCTORS
DZ02	1	1	HI10022300	L.E.D. PR2533D
DZ03	1	1	HI10023300	L.E.D. BG2533D
				L.E.D. AY2533D
QZ01	1	1	HT605571B0	Transistor BC557(B)
QZ02	1	1	HT605571B0	Transistor BC557(B)

REF. DESIG.	Q'TY		PART NO.	DESCRIPTION
	N	F		
PZ50	1	1	YK101K1760	PZ50-SIGNAL RELAY 1 CIRCUIT BOARD
	1		ZZ101K8760	P.W. Board, Signal Relay 1 P.W. Board Assembly
JZ51	1	1	YJ06002680	Jack
JZ52	1	1	YJ06002680	Jack
JZ53	1	1	YJ06002680	Jack
JZ54	1	1	YJ06002450	Jack, (6P)
JZ55	1	1	YJ06002430	Jack, (3P)
JZ56	1	1	YJ06002440	Jack, (4P)
JZ57	1	1	YJ06002440	Jack, (4P)
JZ58	1	1	YJ06002450	Jack, (6P)
JZ59	1	1	YJ06002450	Jack, (6P)
WZ58	1	1	YU06340260	Jumper Lead, (6P)
WZ59	1	1	YU05320260	Jumper Lead, (5P)

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

#### 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.

## 11. TECHNICAL SPECIFICATIONS

### AUDIO PERFORMANCE

Number of Channels . . . . .	2
Frequency Range . . . . .	20–20,000 Hz
Dynamic Range . . . . .	>90 dB
Signal-to-Noise Ratio . . . . .	>90 dB
Channel Separation . . . . .	>90 dB
Total Harmonic Distortion (incl. noise) . . . . .	<0.005%
Wow and Flutter . . . . .	quartz crystal precision
D/A Conversion . . . . .	16 bit with digital filtering
Error Correction System . . . . .	Cross Interleave Reed Solomon Code (CIRC)
Audio Output Level . . . . .	2 V rms

### OPTICAL READOUT SYSTEM

Laser . . . . .	semi-conductor AlGaAs
Wave length . . . . .	0.78 μm

### SIGNAL FORMAT

Sampling Frequency . . . . .	44.1 kHz
Quantization . . . . .	16 bit linear/channel

### DISC

Diameter . . . . .	120 mm
Thickness . . . . .	1.2 mm
Sense of rotation (seen from reading side) . . . . .	anti-clockwise
Scanning velocity . . . . .	1.2–1.4 m/s
Rotation speed . . . . .	500–200 rpm
Playing time (max) . . . . .	60 min (stereo)
Track pitch . . . . .	1.6 μm
Material . . . . .	plastic

### POWER SUPPLY

Mains Voltage . . . . .	see type plate at the bottom of the player
Mains Frequencies . . . . .	50 and 60 Hz
Power Consumption . . . . .	40 W approx
Safety Requirements . . . . .	IEC

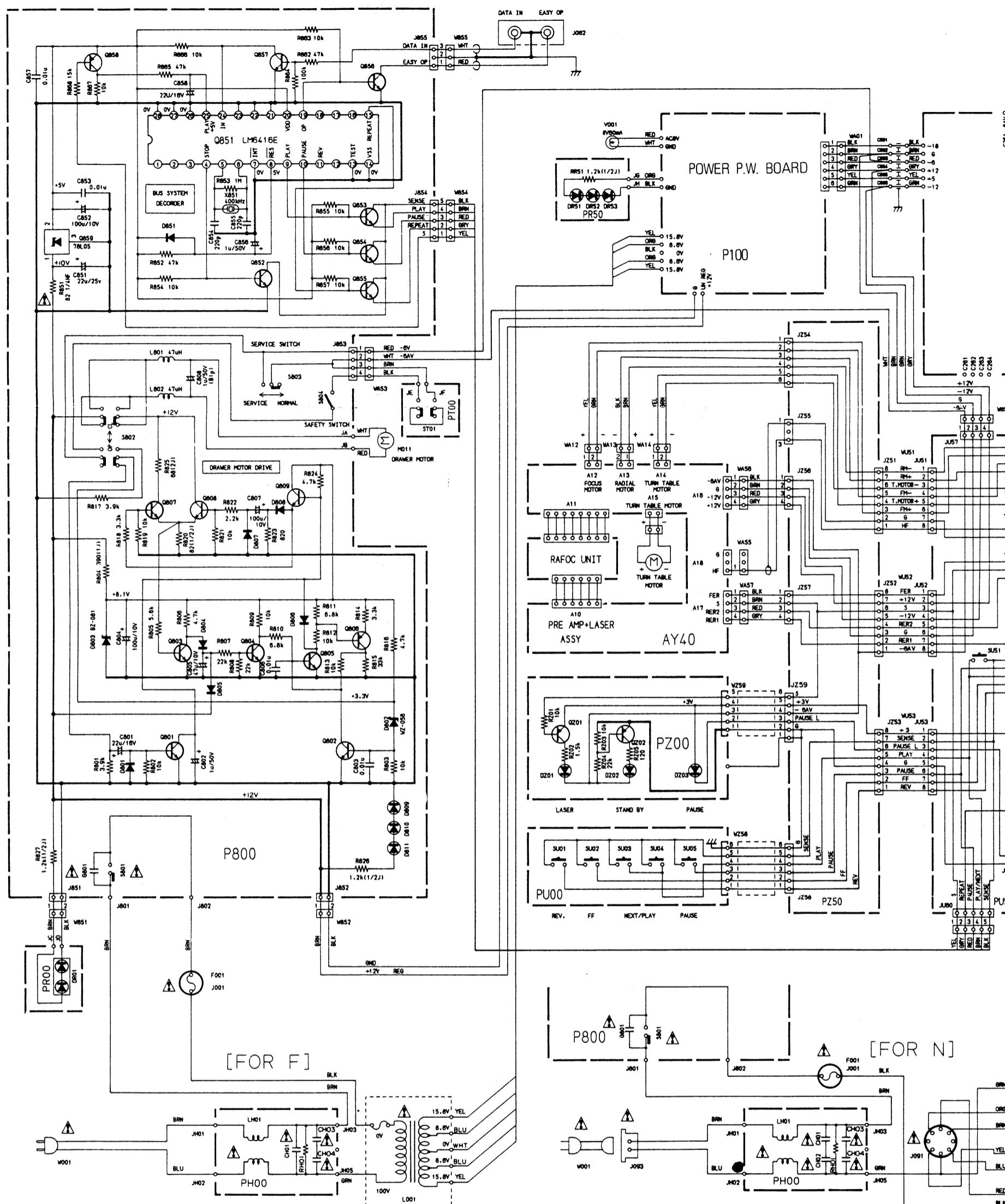
### CABINET, GENERAL

Material/finish . . . . .	polystyrene with extruded aluminium profiles
This model is convertible to 110/120/220/240 volts by changing voltage selector on the rear panel.	
Dimensions (W x H x D) . . . . .	416 x 81 x 300 mm
with drawer closed . . . . .	416 x 130 x 483 mm
with drawer open . . . . .	
Weight . . . . .	8 kg approx
Connection Cable . . . . .	fitted with moulded cinch plugs

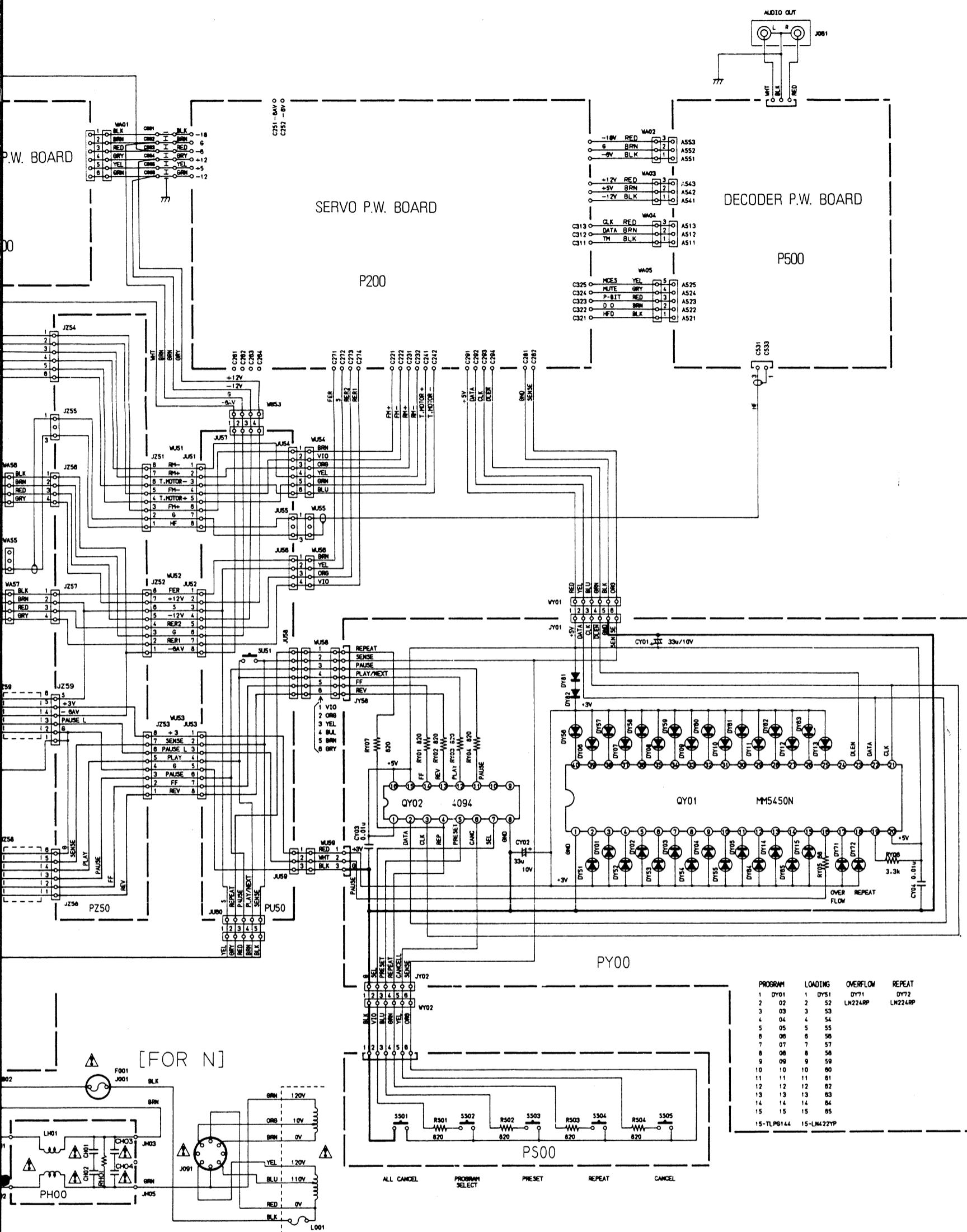
Specifications and appearance are subject to change for modification without notice.

**MEMORANDUM**

## 12. SCHEMATIC DIAGRAM



# **Model CD-73**



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