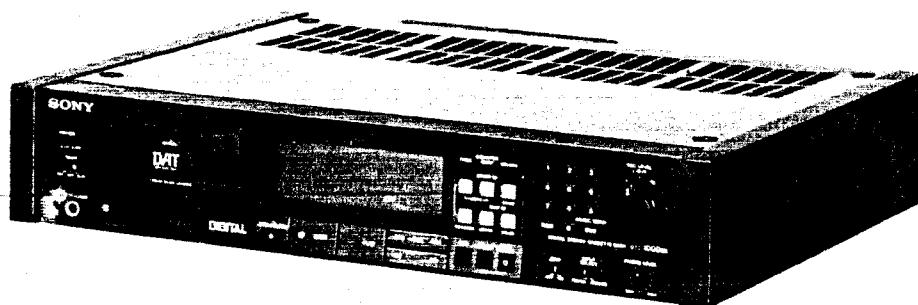


DTC-1000ES

SERVICE MANUAL

AEP Model
UK Model



SPECIFICATIONS

System	Digital audio tape recorder
Tape	Digital audio tape
Recording system	Rotary head
Recording time	120 minutes (with DT-120)
Tape speed	8.15 mm/s
Drum rotation	Approx. 2,000 rpm
Error correction	Double Reed Solomon code
Number of channel	2 channels, stereo
D/A conversion	16-bit linear
Frequency response	2-22,000 Hz ±0.5 dB
Signal to noise ratio	More than 92 dB
Dynamic range	More than 90 dB
Total harmonic distortion	Less than 0.0055%
Wow and flutter	Below measurable limit
Input	

Input jacks	Jack type	Impedance	Rated input level
LINE IN	Phono	50 kohms	-10 dBs
DIGITAL	Phono	75 ohms	0.5 Vp-p

Output

Output jacks	Jack type	Impedance	Rated output	Load impedance
LINE OUT	Phono	470 ohms	-10 dBs	More than 10 kohms
HEAD-PHONES	Stereo phone	150 ohms	0-28 mW	32 ohms
DIGITAL OUT	Phono	75 ohms	0.5 Vp-p	75 ohms

Tape	13.6 µm (20.4 µm)
Track pitch	48 kHz, 44.1 kHz, 32 kHz
Sampling frequency	8-10 Modulation
Modulation system	2.46 Mbit/sec. (before modulation)

General	
Power requirements	220V AC, 50/60Hz (AEP model) 240V AC, 50Hz (UK model)
Power consumption	48 W
Dimensions	Approx. 470×100×420 mm (w/h/d) (18½×3½×16½ inches) incl. side wood
Weight	Approx. 430×100×420 mm (w/h/d) (16½×3½×16½ inches) excl. side wood Approx. 12 kg (26 lb 7 oz) incl. side wood

Supplied accessories

- Remote commander (1) RM-R1
- Sony batteries SUM-3 (NS) (2)
- Audio connecting cords (2 phono plugs × 2 phono plugs, stereo, for line inputs and outputs) (2)
- Screws to secure the cabinet (4)*

Remote commander (supplied) RM-R1

Remote control system	Infrared control
Power requirements	3 V DC, with R6 (size AA) batteries
Dimensions	Approx. 67×175×18 mm (w/h/d) (2½×6¾×11/16 inches)
Weight	Approx. 145 g (5 oz) incl. batteries

* The side wood panels on both sides of the deck are detachable. After removing the screws, secure the cabinet with the supplied lock screws (four M4×6). For safety, before doing this, be sure to disconnect the AC power cord from the AC outlet.

DIGITAL AUDIO TAPE DECK
SONY®

SAFETY-RELATED COMPONENT WARNING!!

COMPONENTS IDENTIFIED BY SHADING AND MARK
▲ ON THE SCHEMATIC DIAGRAMS AND IN THE
PARTS LIST ARE CRITICAL TO SAFE OPERATION.
REPLACE THESE COMPONENTS WITH SONY PARTS
WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS
MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

Flexible Circuit Board Repairing

- Keep the temperature of the soldering iron around 270°C during repairing.
- Do not touch the soldering iron on the same conductor of the circuit board (within 3 times).
- Be careful not to apply force on the conductor when soldering or unsoldering.

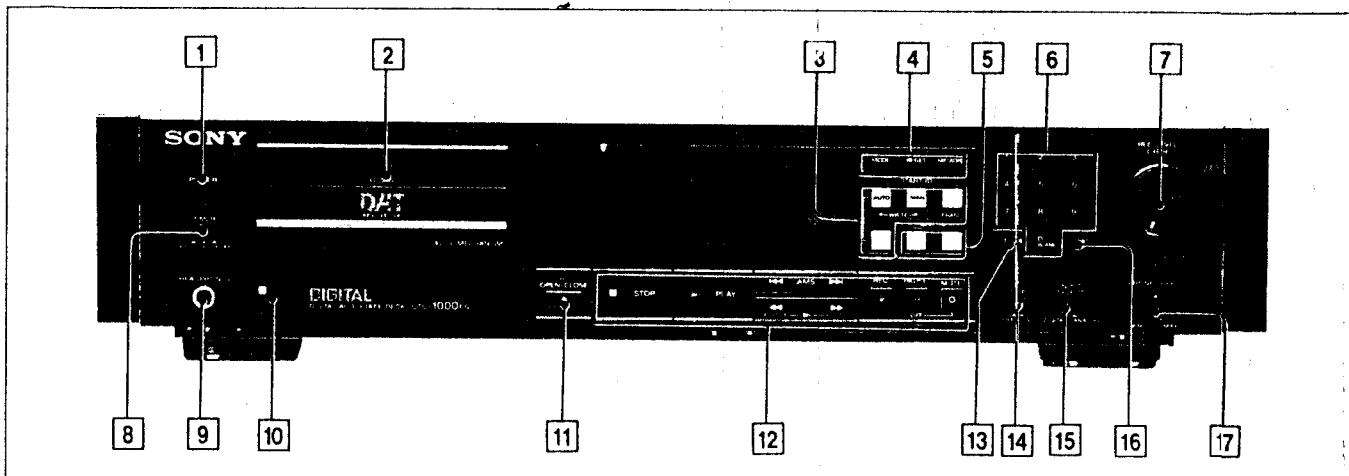
Notes on chip component replacement

- Never reuse a disconnected chip component.
- Notice that the minus side of a tantalum capacitor may be damaged by heat.

TABLE OF CONTENTS.

<u>Title</u>	<u>Description</u>	<u>Page</u>
Section 1.	Outline	3
Section 2.	Block Diagram	7
Section 3.	Disassembly	13
Section 4.	Adjustments	17
4-1.	Mechanical Adjustment	17
4-2.	Electrical Adjustment	20
Section 5.	Diagrams.	32
5-1.	Mounting Diagram (MD Servo & Digital Block)	33
5-2.	Schematic Diagram (MD Servo Block).	37
5-3.	Mounting Diagram (Power Block).	43
5-4.	Schematic Diagram (Power Block)	44
5-4.	Schematic Diagram (Digital Block)	47
5-5.	Mounting Diagram (Analog & Microcomputer Block)	53
5-6.	Schematic Diagram (Analog & Microcomputer Block).	57
Section 6.	Exploded Views and Parts List	69
Section 7.	Electrical Parts List	79

SECTION 1 OUTLINE



[1] POWER switch

[2] Cassette compartment

Insert a cassette with the window side up and the safety tab facing toward you.

[3] START ID buttons and indicators

Used to write and erase the start ID codes, and to renumber and erase the program numbers.

AUTO (automatic): Press to write the start ID automatically during recording. When the recording level returns to the fixed level after having been below it for more than 3 seconds, the start ID is written on the tape for 9 seconds.

MAN (manual): Press to write the start ID at the desired point during recording. The MAN indicator lights. The start ID is written on the tape for 9 seconds.

ERASE: Press to erase a start ID. When a start ID and a program number are written on the tape, both codes are simultaneously erased by pressing this button.

RENUMBER: Press to renumber the program numbers. When only the start IDs are written, pressing this button will insert program numbers. When this button is pressed, the tape is rewound to the beginning automatically and program numbers are assigned from "1" in numerical order.

[4] COUNTER buttons

MODE: Changes the counter indication in the display window from the tape running time, to elapsed time of the selection, to total remaining time of the tape, and back to the tape running time again.

RESET: Resets the counter to "0M 00S".

MEMORY: Stores the point where the counter is reset in memory.

[5] SKIP ID buttons and indicators

WRITE: Press to write a skip ID onto the tape.

ERASE: Press to erase a skip ID which is written at the point just before the current position.

[6] Numeric buttons (0-9)

Press to designate the program number.

[7] REC LEVEL (recording level) controls

Adjust the recording level. The outer knob controls the left channel level and the inner knob the right channel level.

[8] TIMER switch

Normally set to OFF. Used to start recording or playback at the desired time using a commercially available audio timer.

[9] HEADPHONES Jack (stereo phone jack)

[10] Remote sensor

[11] OPEN/CLOSE button and indicator

[12] Tape operation buttons

■ STOP button

► PLAY button

►► CUE (fast-forward/cue) button

◀◀ REVIEW (rewind/review) button

◀◀ AMS: Press to locate the beginning of the selection in reverse direction.

►► AMS: Press to locate the beginning of the selection in forward direction.

● REC (recording) button

II PAUSE button: If the pause mode continues for about 10 minutes, it will be released automatically and the deck will enter the stop mode.

O REC MUTE (record muting) button

[13] CLEAR button

Used to cancel the selection number which has been entered mistakenly.

[14] SKIP switch

Set this switch to ON to skip during playback the selections coded with a skip ID code. Set it to OFF to play back the whole tape as it is.

[15] INPUT SELECT switch

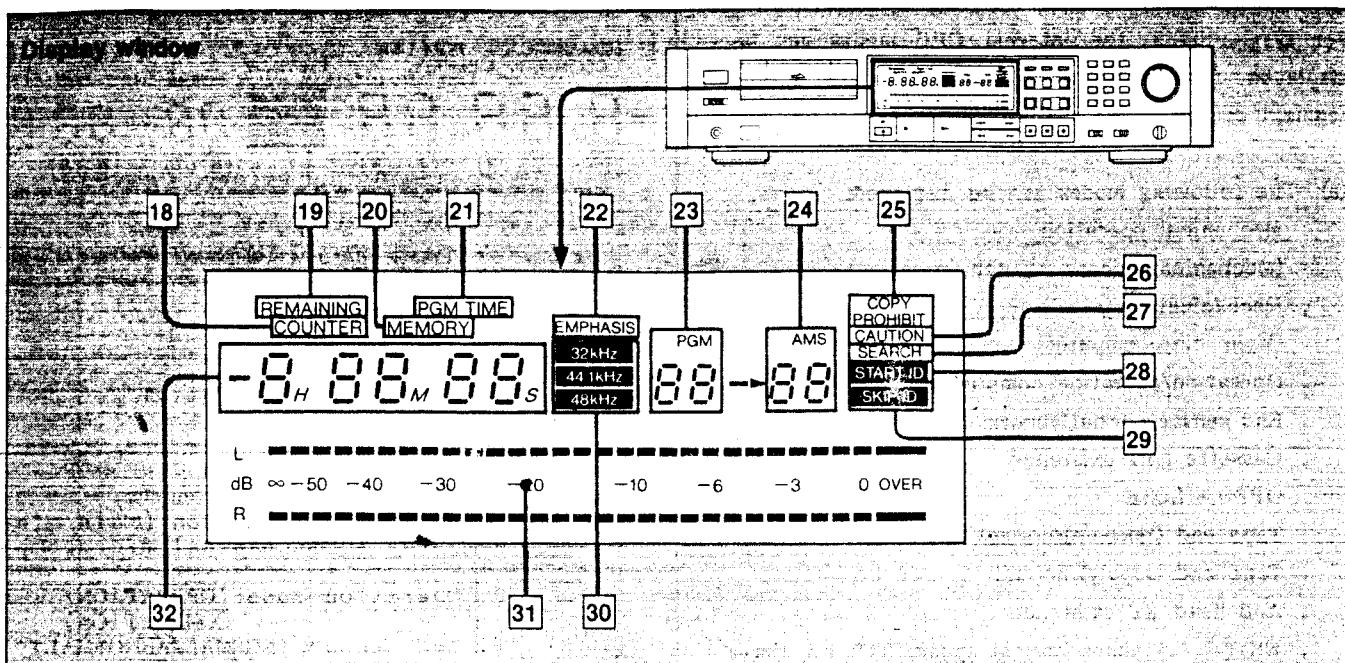
ANALOG: For recording from the equipment connected to the LINE IN jacks on the rear panel.

DIGITAL: For recording from the equipment connected to the DIGITAL IN jack on the rear panel.

[16] START button

Starts playback from the designated selection or activates the music scan operation.

[17] PHONES LEVEL (headphones level) control



[18] COUNTER indicator

Lights up to show that the counter is displaying the tape running time.

[19] REMAINING indicator

Lights up to show that the counter is displaying the remaining time.

The remaining time is not displayed during search operation (the SEARCH indicator lights), fast-forwarding or rewinding.

[20] MEMORY indicator

Lights up when the MEMORY button is pressed to show that the "0M 00S" point is stored in memory.

[21] PGM TIME (program time) indicator

Lights up to show that the counter is displaying the elapsed time of the current selection.

[22] EMPHASIS indicator

Lights up when recording a digital signal input from the DIGITAL IN jack contains a pre-emphasized signal. In the playback mode, it also lights up while the detected pre-emphasized signal is being de-emphasized.

[23] PGM (program number) display

Shows the program number of the selection being played.

[24] AMS (automatic music sensor) display

Shows the number of selections to be skipped ahead or behind in AMS operation. When a numeric button is pressed, the display shows the program number of the target selection while the selection is being searched for.

[25] COPY PROHIBIT (digital copy prohibit) indicator

Blinks when the digital signal to be recorded contains a "digital copy prohibit" code. In this case, digital-to-digital recording cannot be done.

[26] CAUTION indicator

Blinks when moisture condensation occurs. If this happens, the deck stops automatically.

[27] SEARCH indicator

Lights up while a selection is being searched for.

[28] START ID indicator

Blinks when writing or erasing a start ID code, or when the start ID is detected during playback.

[29] SKIP ID indicator

Lights up momentarily when writing or erasing a skip ID code, or when the skip ID is detected during playback.

[30] Sampling frequency indicators

Indicates the sampling frequencies (32 kHz, 44.1 kHz, 48 kHz) with which the digital program is encoded.

44.1 kHz: For playback of pre-recorded DAT tape

(Digital-to-digital recording cannot be done.)

48 kHz: For recording/playback with DAT tape

[31] Peak level meters

Indicate the level of the audio signal being recorded during recording, and the peak values of the audio signal recorded on the tape during playback.

[32] Counter

Displays the tape running time, elapsed time of the selection being played, and the total remaining time of the tape. Each time COUNTER MODE is pressed, the display mode changes in turn.

DTC-1000ES DTC-1000ES

DTC-1000ES TEST MODE

For DTC-1000ES, the internal CPU modes can be displayed for servicing on the counter's seven-segment display.

(a) The following modes can be displayed:

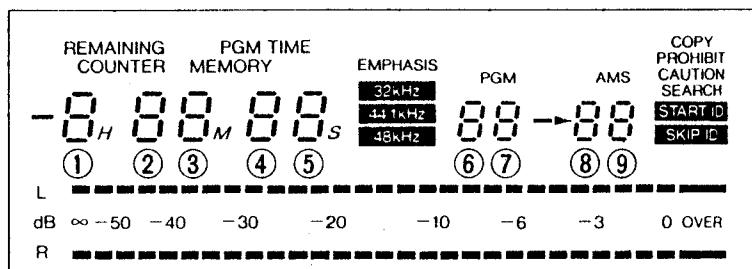
- Mechanical operation
(Mechanical microcomputer operation)
- Mechanical instruction
(Main microcomputer instruction)
- Operation/operation completion
- End sensor normal/abnormal
- Cassette half existence
- OPEN/CLOSE
- Tape end (take-up)/normal
- Tape end (supply)/normal
- A/B head RF existence
- WIDTH 1.5 times normal speed/NOT 1.5 times normal speed
- Soft tape/normal tape
- REC inhibit/OK
- Drum normal/abnormal
- Tray in/out
- TEST mode/NOT TEST mode
- Take-up end hold/NOT hold
- Tray loading normal/abnormal
- Position EJECT/NOT EJECT
- Measure End
- Preend
- Take-up Reel Stop
- Supply Reel Stop
- Measure completion

(b) To display the test modes, connect pin 67 of mechanical microcomputer IC512 to GND, and press the counter's MODE switch for three times.

(c) The indicator display is described below.

Using indicators (1) through (9), data in main microcomputer is displayed by four bits (hexadecimal).

(Items (1), (3), (4), (5), and (6) are mechanical micromcomputer data; (2) and (9) are main microcomputer data; and (8) is reel microcomputer data.)



Display position	Description			
①	Mechanical operation			
②	Mechanical instruction (main microcomputer to mechanical microcomputer)			
③	0	Operation mode (OPERATION/COMPLETION)		
	1	End sensor (NORMAL/ABNORMAL)		
	2	Cassette half (YES/NO)		
	3	OPEN (OPEN/CLOSE)		
④	0	Tape end take-up reel (TOP/NOR)		
	1	Tape end supply reel (END/NOR)		
	2	RF (NO RF/RF)		
	3	WIDTH (15 TIMES NORMAL SPEED/NOT 1.5 TIMES NORMAL SPEED)		
⑤	0	Tape (SOFT/NORMAL)		
	1	REC (INHIBIT/OK)		
	2	DRMERR (DRUM NORMAL/ABNORMAL)		
	3	TOUT (TRAY IN/OUT)		
⑥	0	FTEST (TEST MODE/NOT TEST MODE)		
	1	TEUDH (TAKE-UP END HOLD/NOT HOLD)		
	2	TLABF (TRAY LOADING NORMAL/ABNORMAL)		
	3	PEJCT (EJECT POSITION/NOT EJECT POSITION)		
⑦	0	Not Used. (Digit may vary.)		
	1			
	2			
	3			
⑧	0	Measure End		
	1	Preend		
	2	Take-up Reel Stop		
	3	Supply Reel Stop		
⑨	0	Not Used. (Digit may vary.)		
	1			
	2			
	3	Measure completion (COMPLETED/NOT COMPLETED)		

(d) Display positions (1) and (2) are shown below.
(The same data as in (2) is displayed in (1) at all times with a slight delay.)

Code	Display	Description
0	0	FWD x 1
1	1	FWD x 2
2	2	FWD x 16
3	3	REC FWD
4	4	FF
5	5	FF SEARCH
6	6	FWD x 16 (measure)
7	7	OPEN/CLOSE
8	8	STOP
9	9	PAUSE
A	-	REV x 16 (measure)
B	b	REW
C	c	REW SEARCH
D	d	REV x 1
E	e	REV x 2
F	Blank	REV x 16

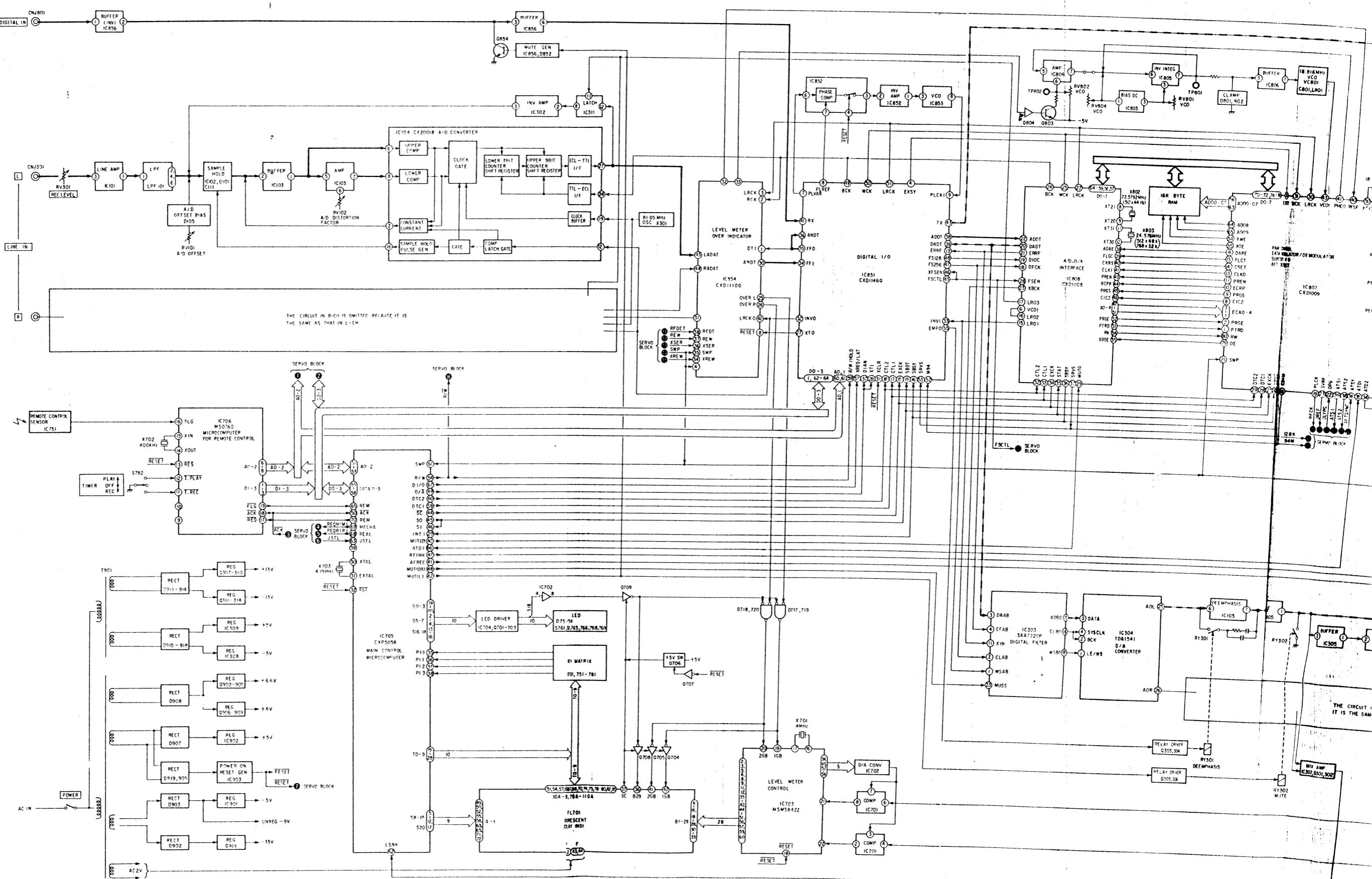
(e) Operations in the TEST mode are described below (as compared with those in the normal mode).

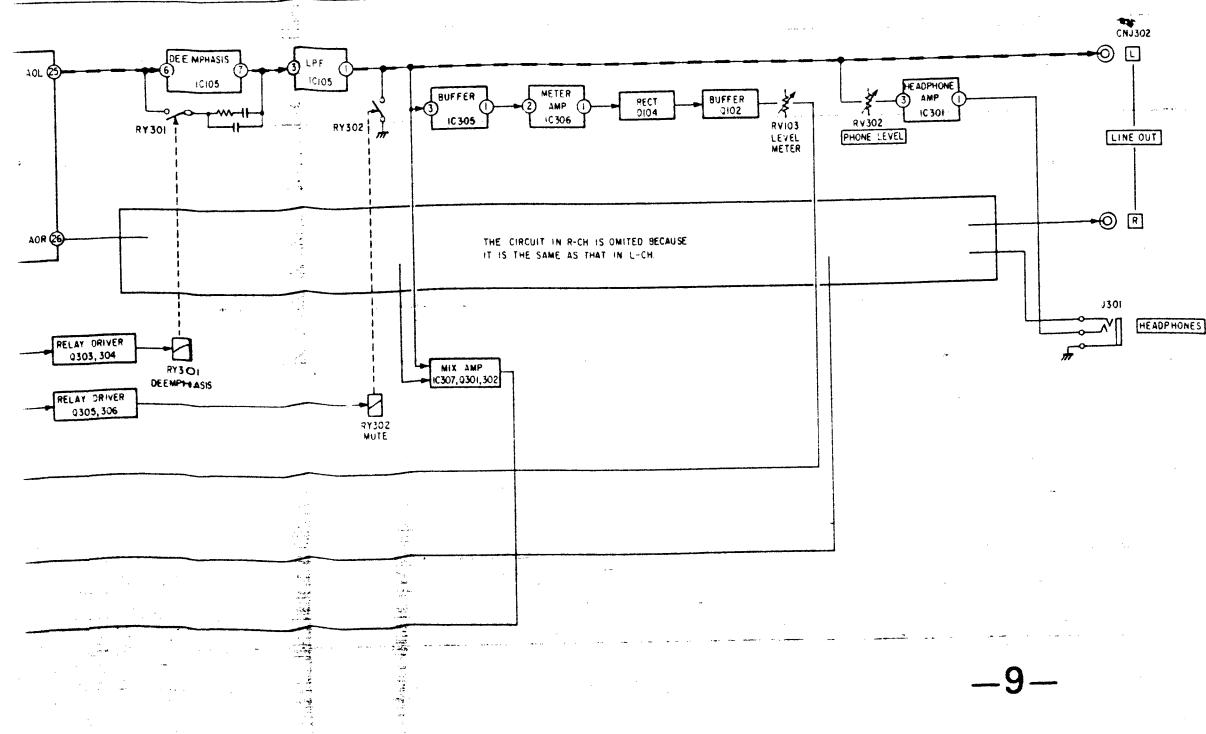
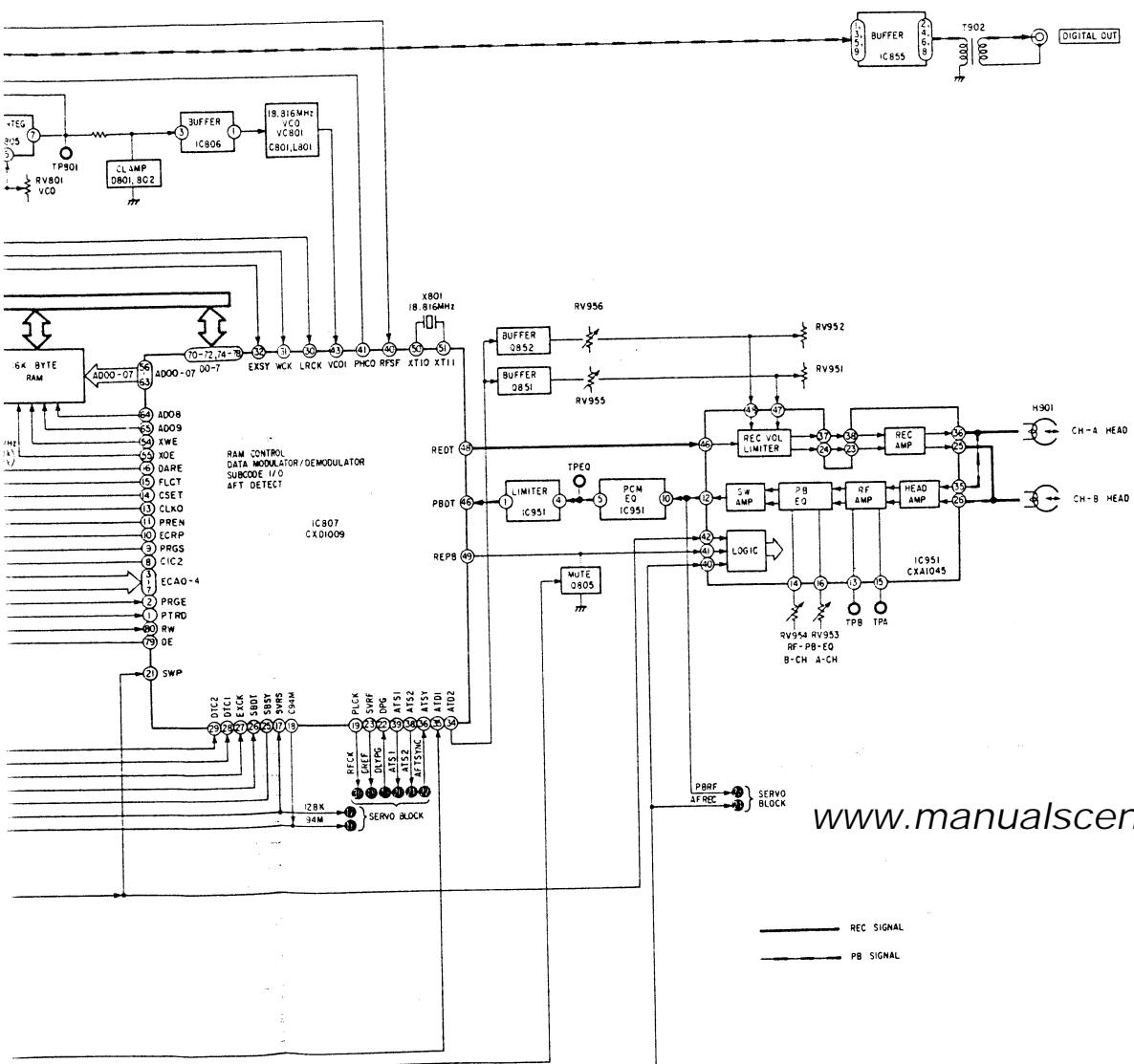
1. Cassette compartment is not activated.
2. Cassette is not detected.
3. CAUTION indication does not appear.

The DTC-1000ES cannot enter the TEST mode from PLAY mode. When the AMS button (▶▶) is pressed using a 1.5 times normal speed tape, FS (sampling frequency) indication changes to flashing 32 kHz and the set enters the FWD mode. When the AMS button (◀◀) is pressed, it enters the REV mode. When the former button is pressed using a normal speed tape, the set enters the FWD x 16 mode. When the latter button is pressed, it enters the REV x 16 mode.

SECTION 2 BLOCK DIAGRAM

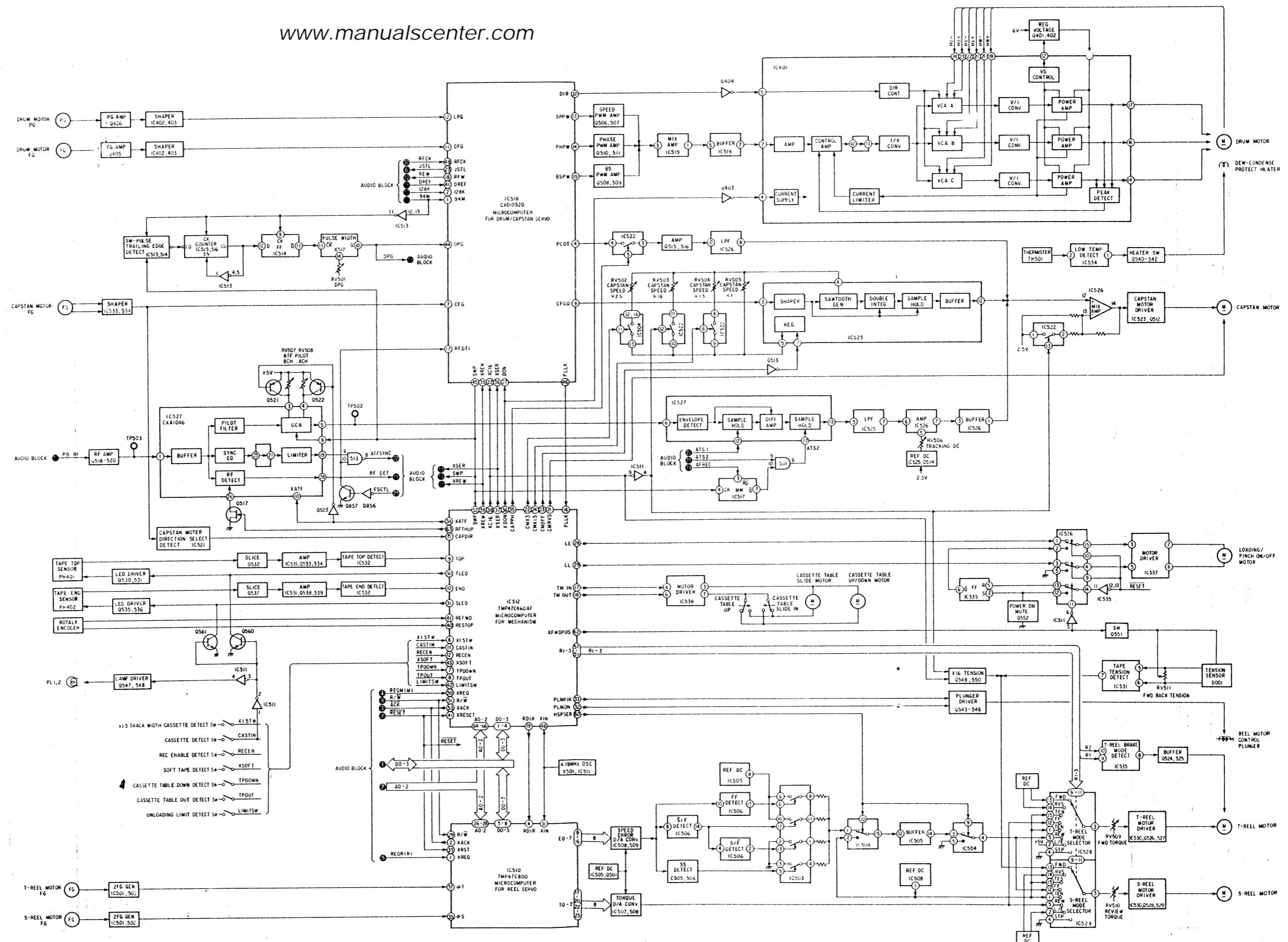
Audio/Microcomputer

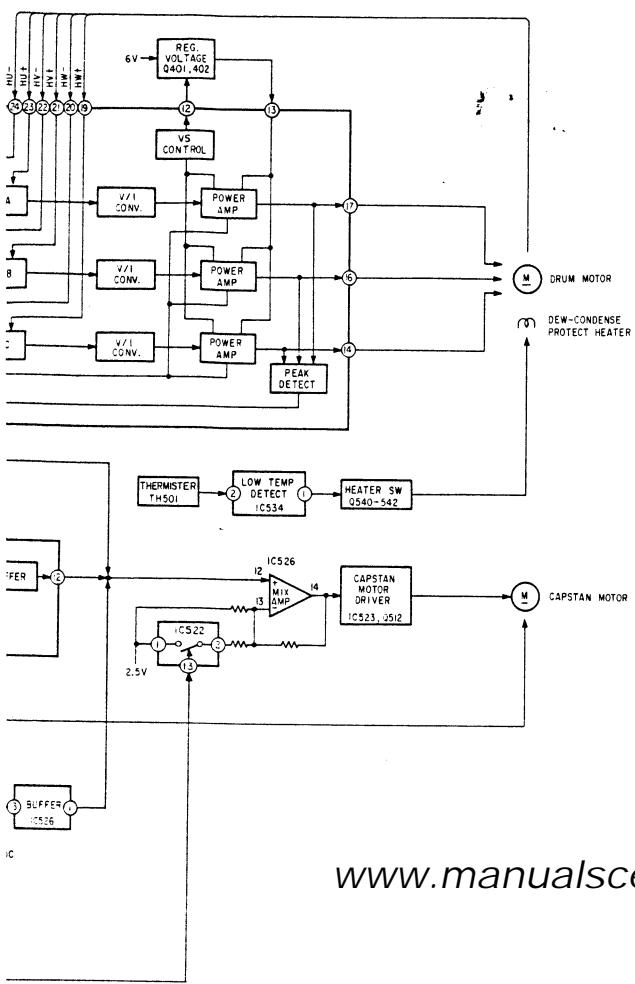




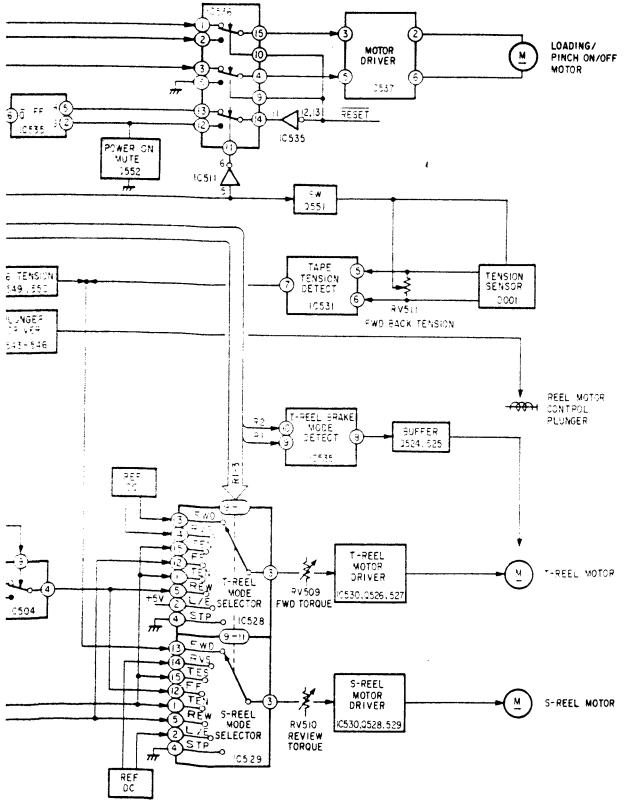
DTC-1000ES DTC-1000ES

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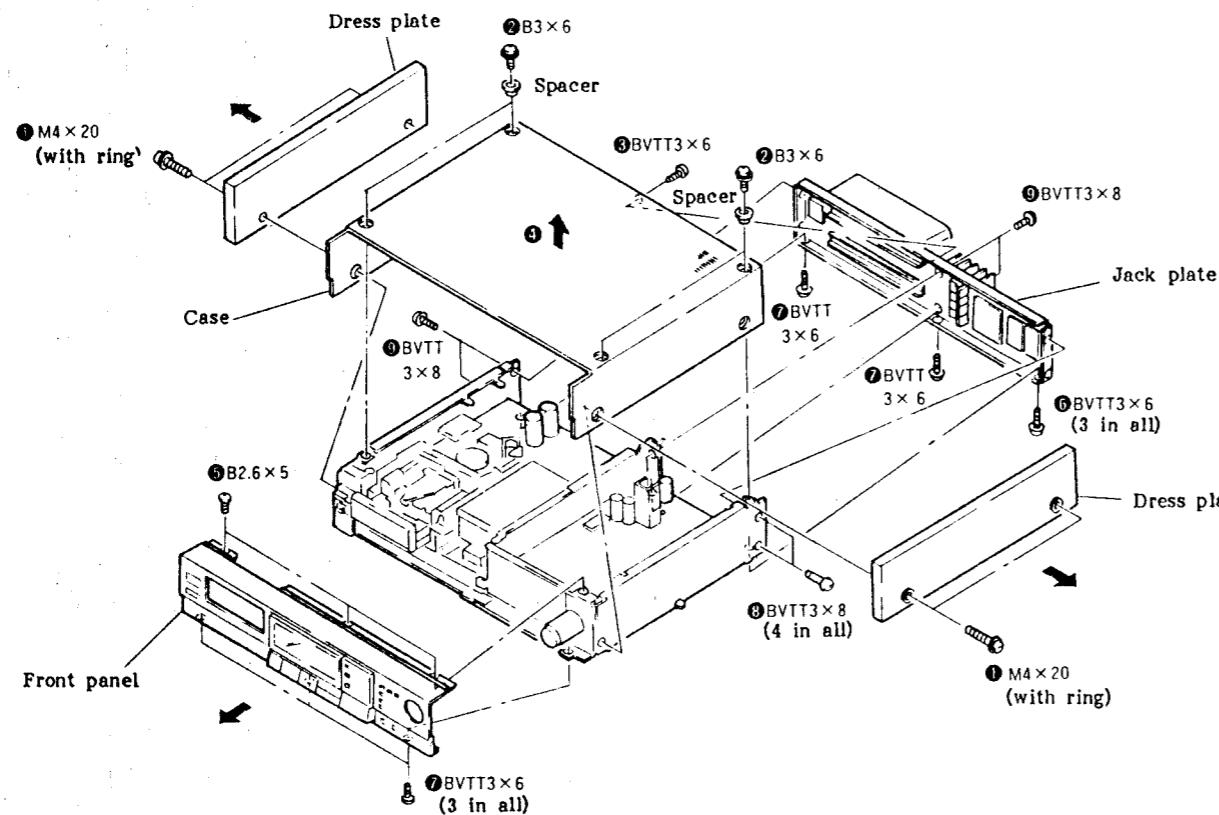
www.manualscenter.com



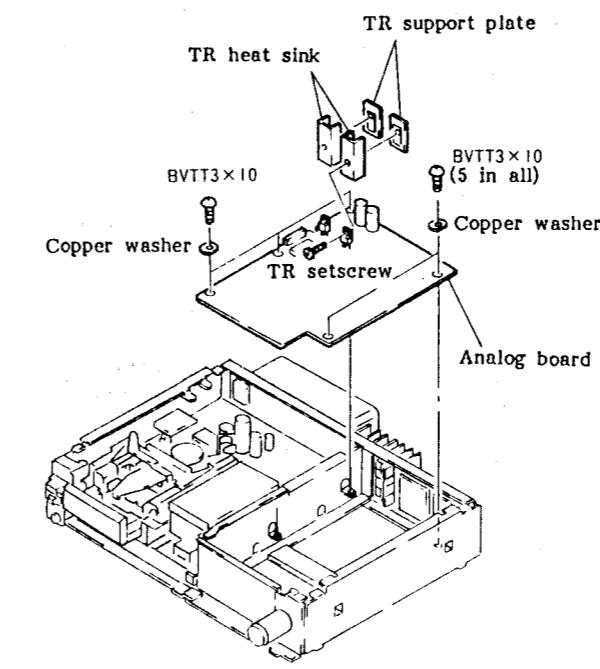
SECTION 3 DISASSEMBLY

When numbers are assigned in the illustration, remove parts in numerical order.

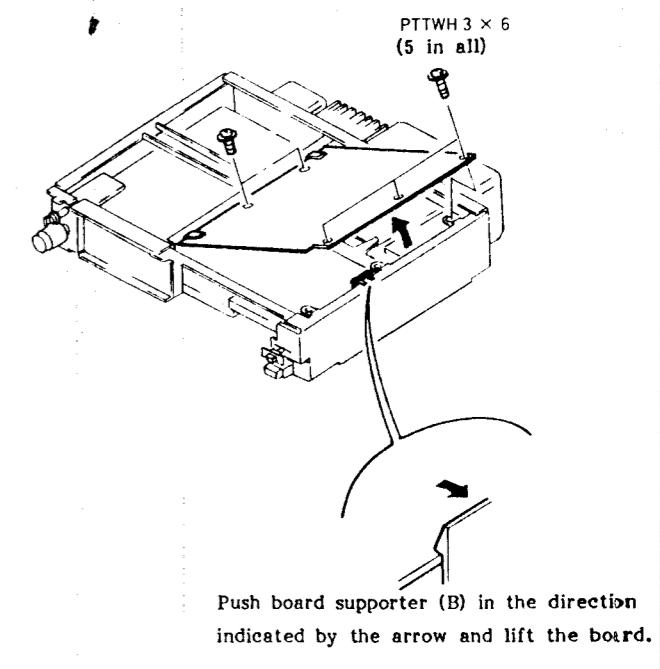
[Outer Casing (Front/Rear Case)]



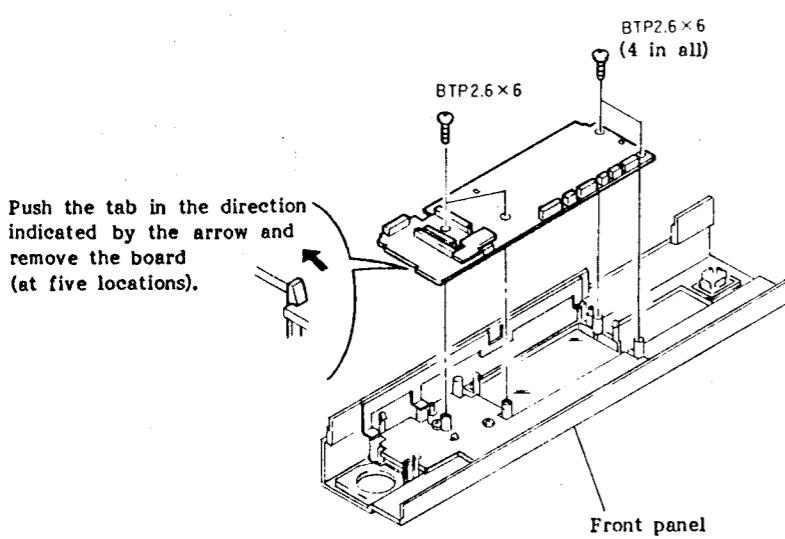
[Analog Board]



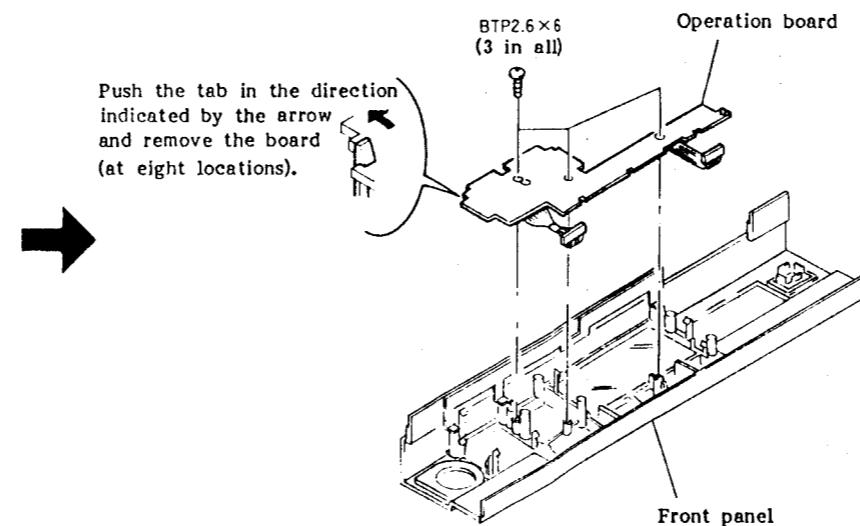
[MD Servo Board]



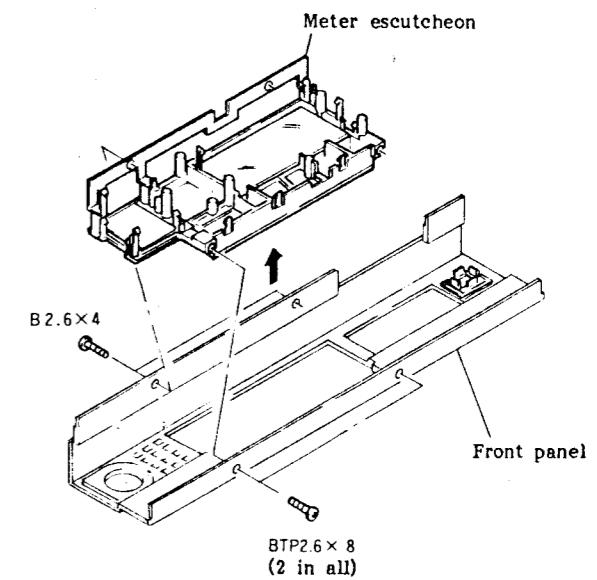
[Main Microcomputer Board]



[Operation Board]



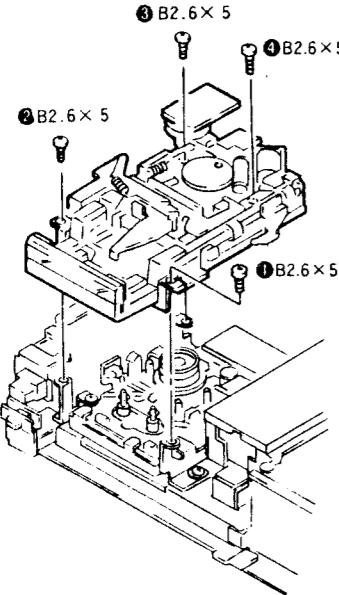
[Escutcheon]



DTC-1000ES DTC-1000ES

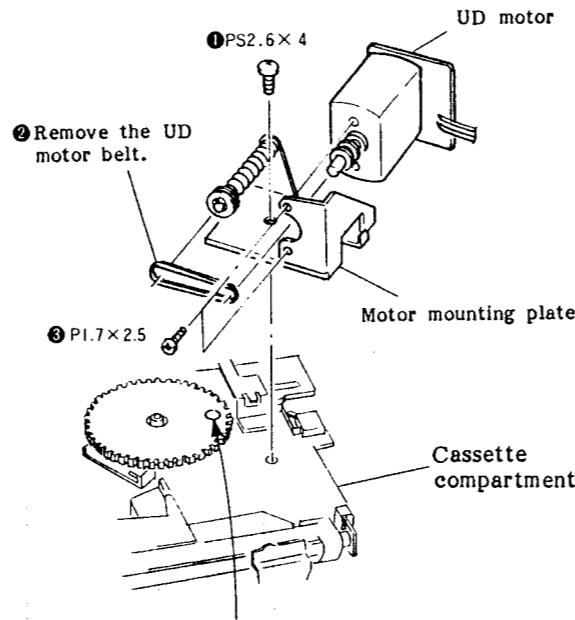
[Mechanical Block]

Note: Remove the cassette control block while it is set to OPEN.

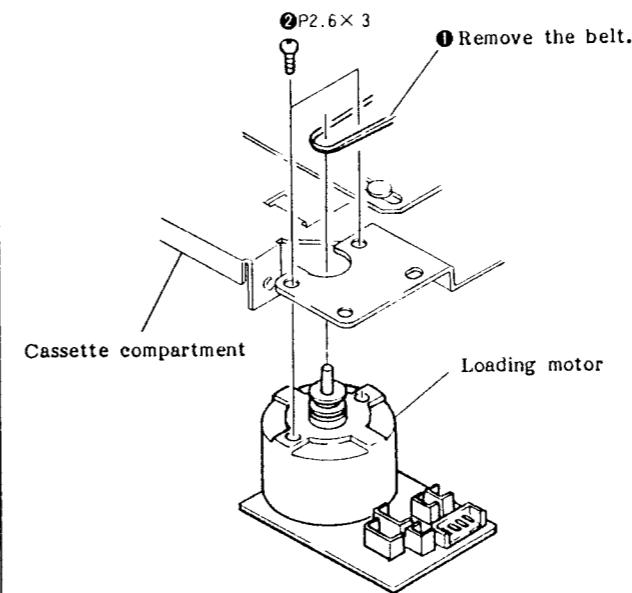


Note: The numbers in the illustration indicate the installation order. (Check a UD gear for its hole position.)

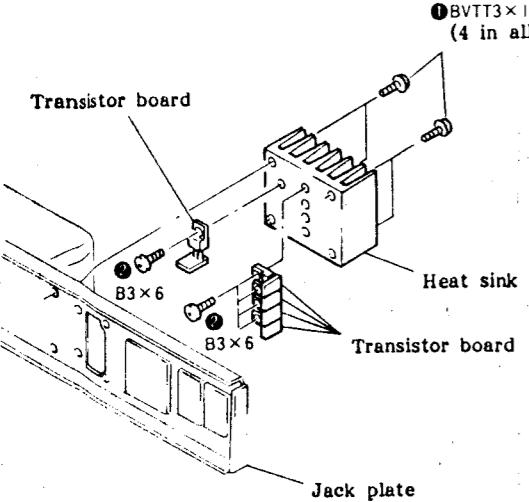
[UD Motor]



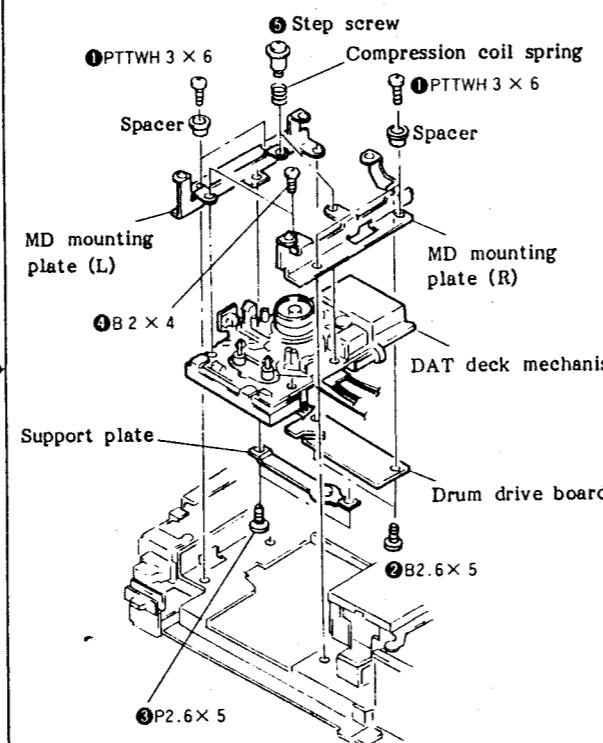
[Loading Motor]



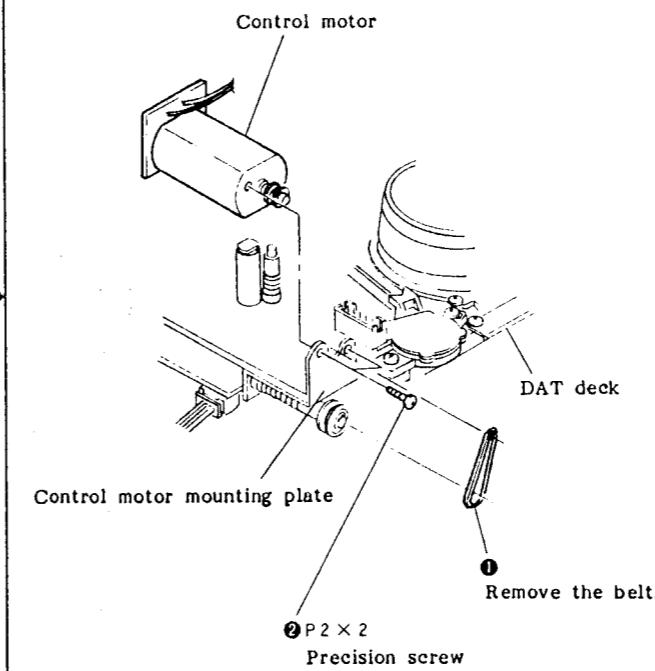
[Transistor Board]



[DAT Mechanical Deck]



[Control Motor]



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SECTION 4 ADJUSTMENTS

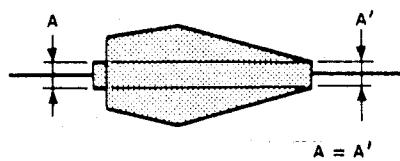
4-1. MECHANICAL ADJUSTMENT

When the drum related block is replaced, finely adjust the tape path (in 1.5 times normal speed FWD mode).

4-1-1. T2 Guide Adjustment

Adjustment

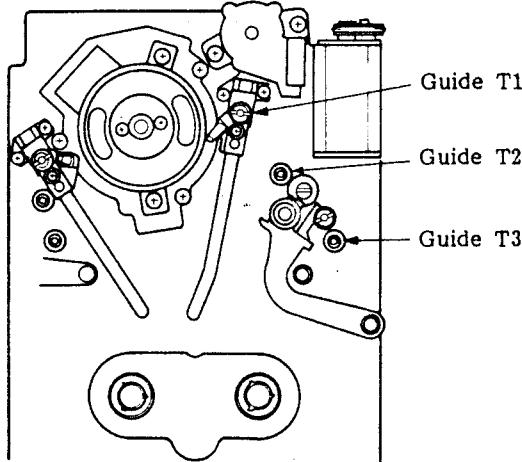
1. Connect CH-1 of an oscilloscope to pin 1 (RF) of CNT52 and CH-2 of an oscilloscope to pin 6 (SWP) of CNT51.
2. Turn on the power switch, insert alignment tape TY-7251 (8-909-813-00), and put the set into the TEST mode.
Press the AMS button, then press the PLAY (►) button.
3. Raise guide T1 so that the RF signal waveform is as shown below.



4. Raise guide T2 and align it with the lower edge of the tape.
5. Lower guide T1 so that the RF signal waveform is normal.
6. Check that the tape is aligned with the lower edge of guide T3.
If it is not, repeat Step 4.

Adjustment Point

Mechanism assembly



4-1-2. S2 Guide Adjustment

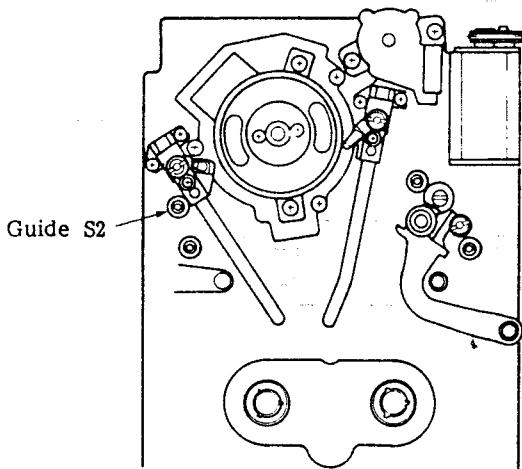
Adjustment

1. Turn on the power switch, insert blank tape TY-30B (8-892-358-00), and put the set into the PLAY (►) mode.
2. Raise guide S2 and align it with the lower edge of the tape.

Note: Check that no curl occurs at guide S2 in the REW (◀) mode.

Adjustment Point

Mechanism assembly



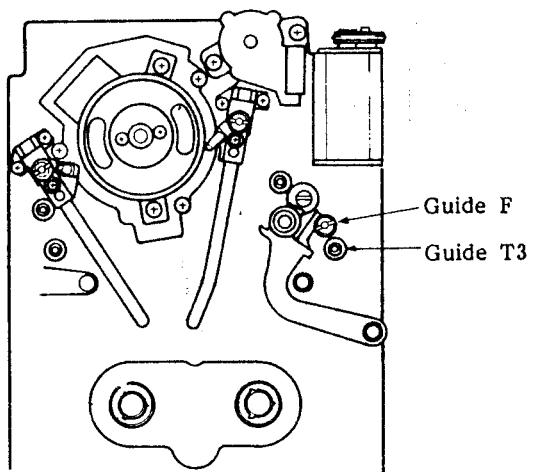
4-1-3. F Guide Adjustment**Adjustment**

1. Turn on the power switch, insert blank tape TY-30B (8-892-358-00), and put the set into the PLAY (►) mode.
2. Align guide F with the lower edge of the tape.

Note: Check that the tape is aligned with the lower edge of guide T3 and is not curled.

Adjustment Point

Mechanism assembly

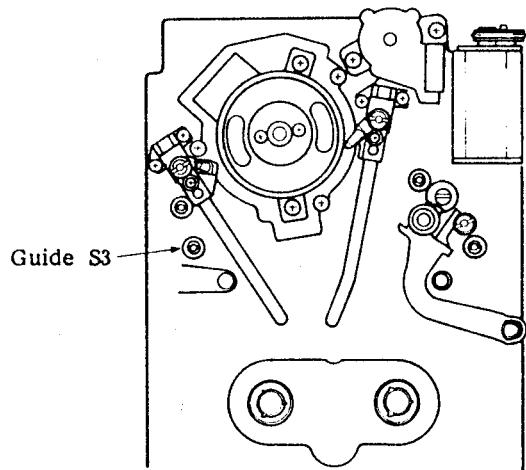
**4-1-4. S3 Guide Adjustment****Adjustment**

1. Turn on the power switch, insert blank tape TY-30B (8-892-358-00), and put the set into the PLAY (►) mode.
2. Align guide S3 with the lower edge of the tape.

Note: Check that the tape is aligned with the lower edge of guide S3 and is not curled.

Adjustment Point

Mechanism assembly



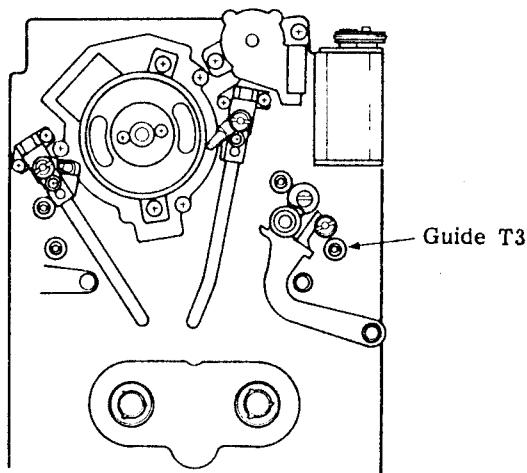
4-1-5. T3 Guide Adjustment**Adjustment**

1. Turn on the power switch, insert blank tape TY-30B (8-892-358-00), and put the set into the PLAY (►) mode.
2. Align guide T3 with the lower edge of the tape.

Note: Check that the tape is aligned with the lower edge of guide T3 and is not curled.

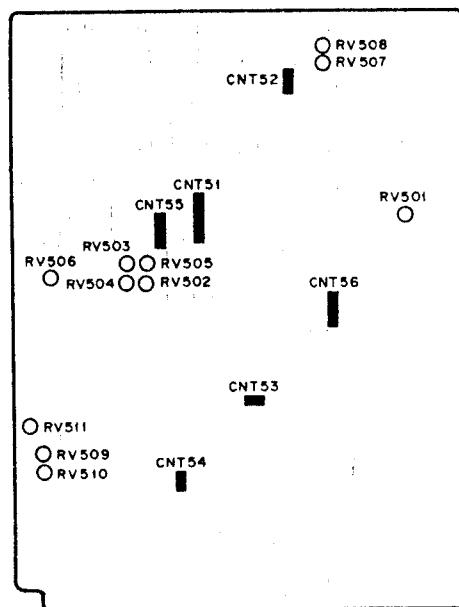
Adjustment Point

Mechanism assembly



4-2. ELECTRICAL ADJUSTMENT

MD servo board (component side)



1. Perform the adjustment in the order described.

2. Use the following alignment tapes:

TY-7111 (8-909-812-00)

TY-7251 (8-909-813-00)

TY-7551 (8-909-814-00)

TY-30B (8-892-358-00)

Use the following torque meters:

TW-7131 (8-909-708-71)

TW-7231 (8-909-708-72)

3. Initial settings are as follows:

Timer	OFF
Skip	OFF
INPUT select	DIGITAL
REC volume	MIN
HEADPHONE volume	MIN
Counter mode	AUTO

4-2-1. FF/REW Torque Adjustment

Adjustment

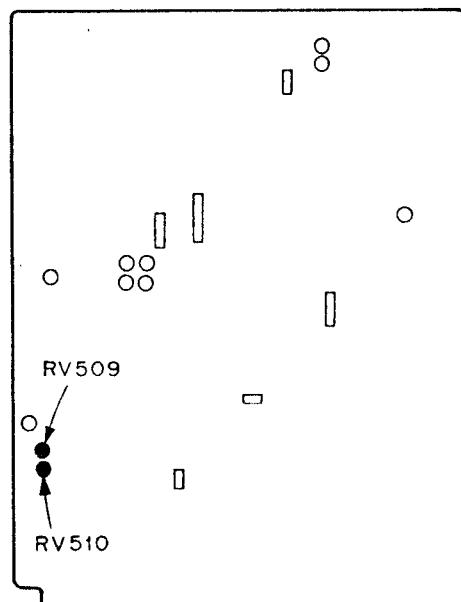
1. Turn on the power switch and insert FF/REW torque meter TW-7231.
2. Put the set into the TEST mode.
3. Put the set into the FF (►) and REW (◀) modes and check that the torque is 17 to 18 gcm.
If it is not, adjust RV509 (FF mode) and RV510 (REW mode).
4. After adjustment is completed, cancel the TEST mode.

Note: Be sure to adjust the torque in the following order:

- (1) FF torque
- (2) REW torque
- (3) FWD back tension

Adjustment Point

MD servo board (component side)

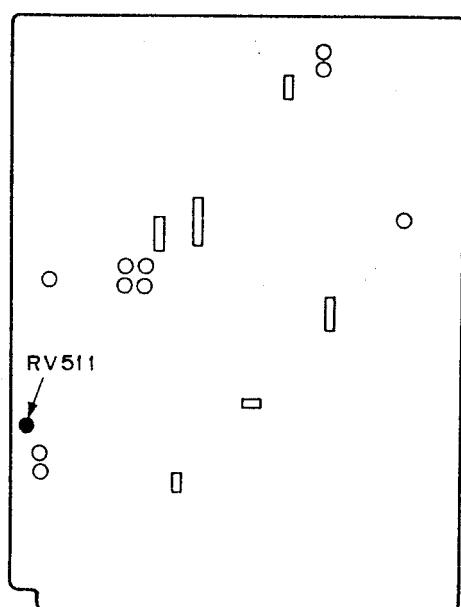


4-2-2. FWD Back Tension Adjustment Adjustment

1. Turn on the power switch and insert FWD torque meter TW-7131.
2. Put the set into the TEST mode.
3. Put the set into the FWD (►) mode.
4. Adjust RV511 so that the back tension (at the supply side) is 3 to 4 gcm.
5. Check the torque meter reading while it makes one cycle.
6. After adjustment is completed, cancel the TEST mode.

Adjustment Point

MD servo board (component side)

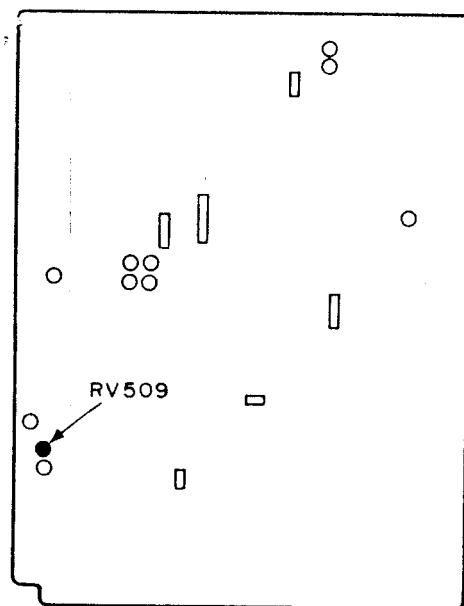


4-2-3. FWD Torque Check Adjustment

1. Turn on the power switch and insert FWD torque meter TW-7131.
2. Put the set into the TEST mode.
3. Put the set into the PLAY (►) mode.
4. Check that the FWD torque (take-up rewinding torque) is 12 to 14 gcm.
5. Check the torque meter reading while it makes one cycle.
6. If the torque is not 12 to 14 gcm, readjust the FF torque.
7. After adjustment is completed, cancel the TEST mode.

Adjustment Point

MD servo board (component side)

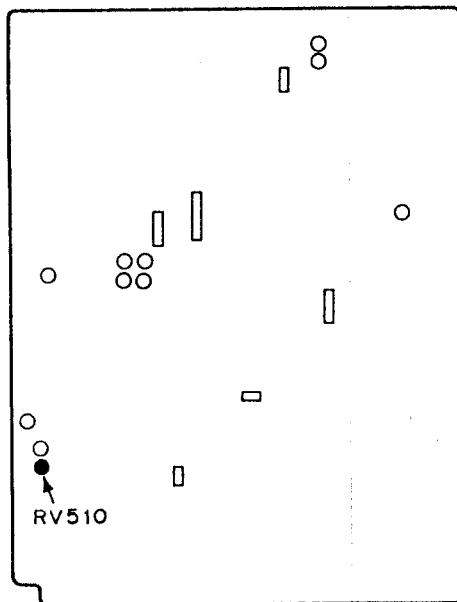


4-2-4. REVIEW Torque Check

1. Turn on the power switch and insert FWD torque meter TW-7131.
2. Put the set into the TEST mode.
3. Put the set into the REVIEW ($\blacktriangleright + \blacktriangleleft$) mode.
(Press the REW (\blacktriangleleft) button continuously in the FWD mode.)
4. Check that the rewinding torque at the supply side is 16 to 18 gem.
5. If the torque is not 16 to 18 gem, readjust the REW torque.
6. After adjustment is completed, cancel the TEST mode.

Adjustment Point

MD servo board (component side)



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4-2-5. Tracking Voltage Adjustment

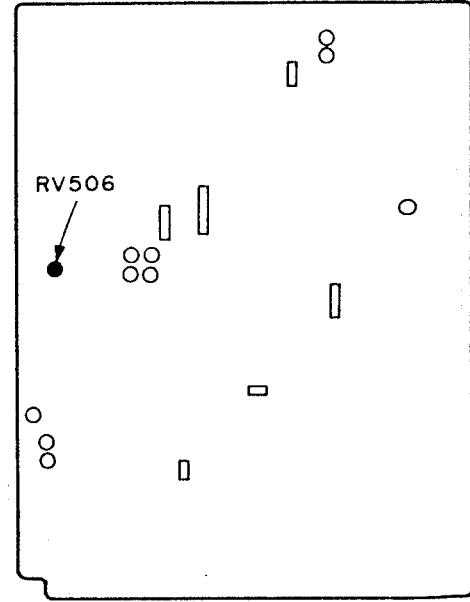
Adjustment

1. Connect a digital tester between pin 7 of IC525 and pin 1 of IC526.
2. Turn on the power switch, insert blank tape TY-30B, and put the set into the STOP (■) mode.
3. Adjust RV506 so that the tester reading is 0 ± 2 mV.

Note: When performing this adjustment, be sure to adjust the capstan speed at x1, x1.5, x2.5, and x16.

Adjustment Point

MD servo board (component side)



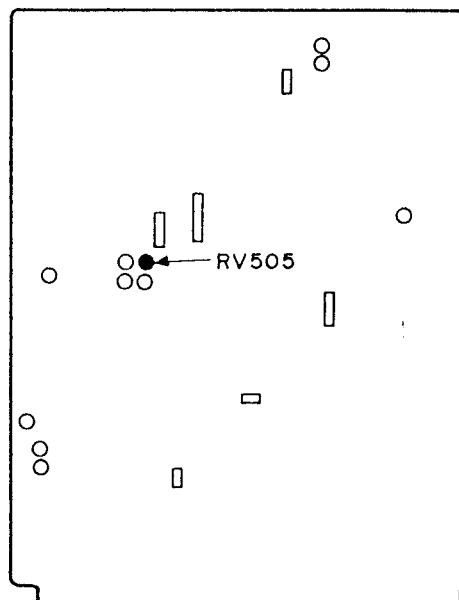
4-2-6. Capstan Speed Adjustment (x 1) Adjustment

1. Connect a frequency counter to pin 3 (CFG) of CNT53.
2. Turn on the power switch, insert blank tape TY-30B, and put the set into the PLAY (►) mode.
3. Adjust RV505 so that the frequency counter reading is 678 ± 1 Hz.

Note: When performing this adjustment, be sure to adjust the capstan speed at x1.5, x2.5, and x16.

Adjustment Point

MD servo board (component side)

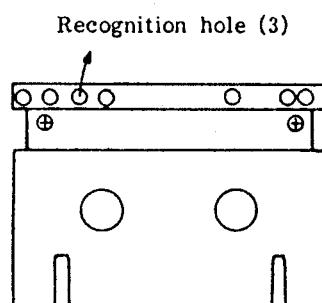


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4-2-7. Capstan Speed Adjustment (x 1.5) Adjustment

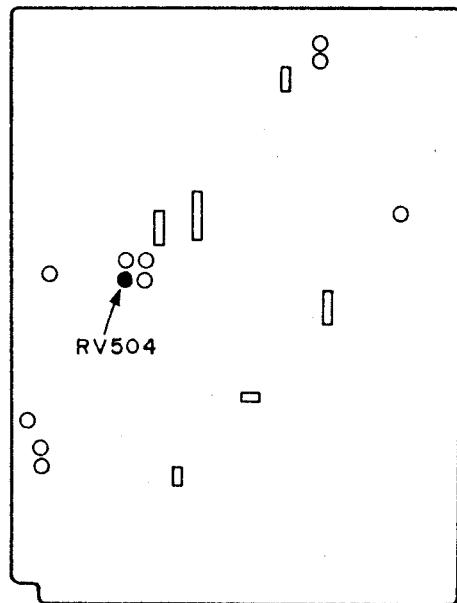
1. Connect a frequency counter to pin 3 (CFG) of CNT53.
2. Turn on the power switch, insert blank tape TY-30B (for 1.5 times normal speed), and put the set into the PLAY (►) mode.
3. Adjust RV504 so that the frequency counter reading is 1017 ± 2 Hz.

Note: When recognition hole (3) of blank tape TY-30B is opened, the set is into the 1.5 times normal speed mode. When the hole is blocked using an adhesive tape, the mode is changed from 1.5 times normal speed to normal speed (x1).



Adjustment Point

MD servo board (component side)



4-2-8. Capstan Speed Adjustment ($\times 2.5$)

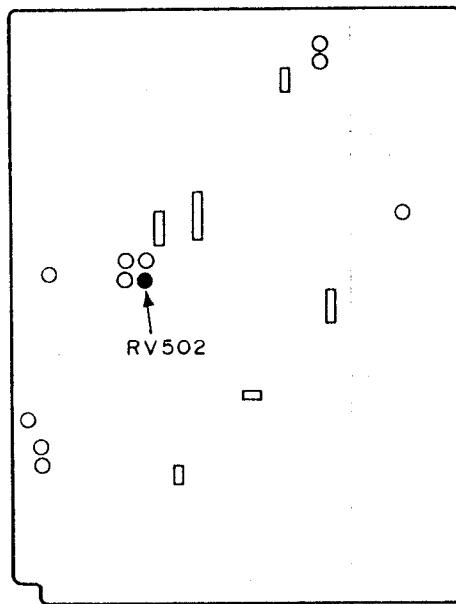
Adjustment

1. Connect a frequency counter to pin 3 (CFG) of CNT53.
2. Turn on the power switch, insert blank tape TY-30B, and put the set into the CUE ($\blacktriangleright + \blacktriangleright\blacktriangleleft$) mode.
Press the FF ($\blacktriangleright\blacktriangleleft$) button continuously in the FWD mode.
3. Adjust RV502 so that the frequency counter reading is 1685 ± 10 Hz.

Note: This adjustment can be made independently.

Adjustment Point

MD servo board (component side)

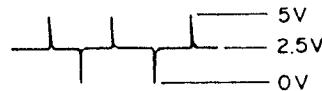


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4-2-9. Capstan Speed adjustment ($\times 16$)

Adjustment

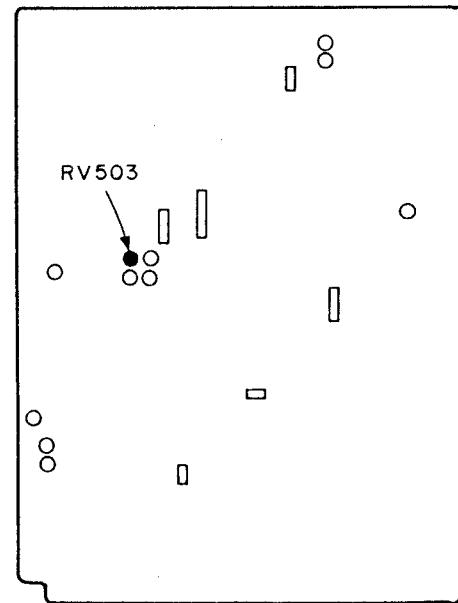
1. Connect an oscilloscope to pin 2 (PCOT) of CNT55.
2. Turn on the power switch, insert blank tape TY-30B, and press the FF ($\blacktriangleright\blacktriangleleft$) or REW ($\blacktriangleleft\blacktriangleright$) button (press the FF or REW button for every one or two seconds to obtain the capstan speed at 16 times normal speed).
3. Adjust RV503 so that the signal waveform on the oscilloscope is as shown below.



Note: This adjustment can be made independently.

Adjustment Point

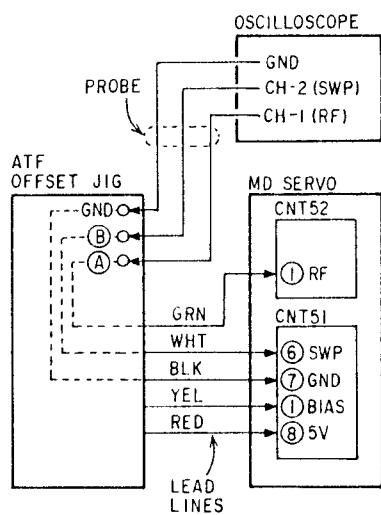
MD servo board (component side)



4-2-10. Tape Path Fine-Adjustment ($\times 1.5$ FWD Mode)

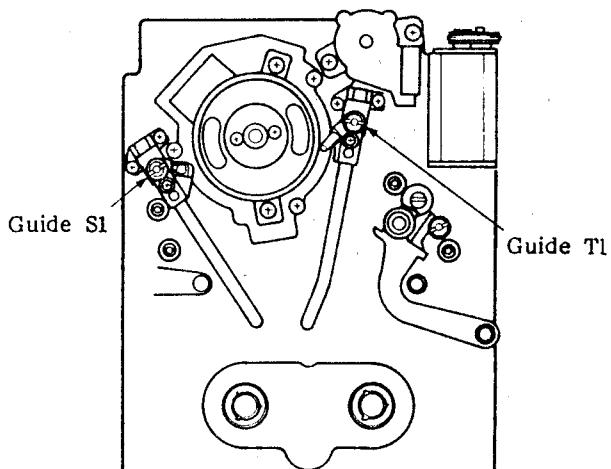
Adjustment

1. Connect CH-1 of an oscilloscope to pin (A) of the offset jig.
2. Connect CH-2 of an oscilloscope to pin (B) of the offset jig.
3. Connect a 3.3 k-ohm resistor between pins 3 (GAIN 2) and 4 (GAIN 1) of CNT51.
4. Connect an offset jig to CNT51 and CNT52.

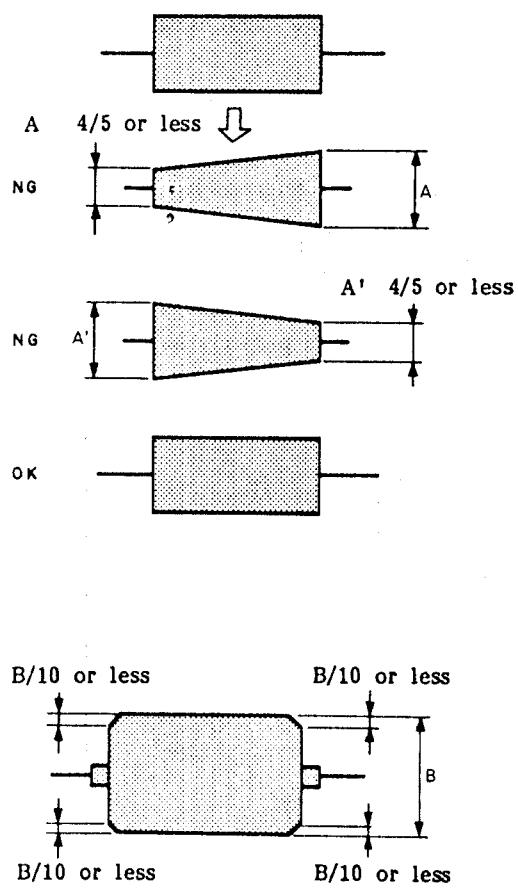


Adjustment Point

Mechanical guides T1 and S1



4. Turn on the power switch, insert alignment tape TY-7251, and put the set into the TEST mode.
 5. Press the AMS button, then press the PLAY (▶) button.
 6. Adjust guides S1 and T1 so that the shape of an RF signal waveform on the oscilloscope is close to a square when the offset jig volume control is turned. (Turn the ATF control carefully so that the waveform varies slowly.)
 7. Remove the two leads (YEL and RED) of the jig from CNT51.
 - (1) Check that peak value (B) of the RF signal waveform is 60 mV or more.
 - (2) Check that the undershoot level of the RF signal waveform's flat portion is within 10%.
 8. If the specification is not satisfied, repeat Steps 3 through 7.
- Note:** Make this adjustment when replacing the drum.



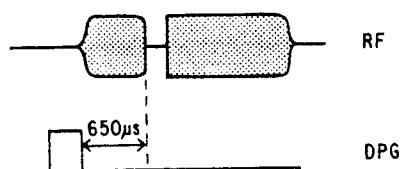
4-2-11. DPG Adjustment**Adjustment**

1. Connect CH-1 of an oscilloscope to pin 1 (RF) of CNT52 and CH-2 of an oscilloscope to pin 5 (DPG) of CNT56.
2. Select tap pattern 8 and make a solder bridge to check the original delay value of a PG pulse. (The delay time for one DPG SW code is about 100μsec.)
3. Turn on the power switch, insert alignment tape TY-7251, and put the set into the TEST mode.
4. Press the AMS button, then press the PLAY (►) button.
5. Select the tap pattern and adjust so that it satisfies the specified value (for approximate adjustment).
6. Put the set into the PLAY (►) mode and finely adjust RV501 so that the signal waveform on the oscilloscope is 650 ± 15 usec.

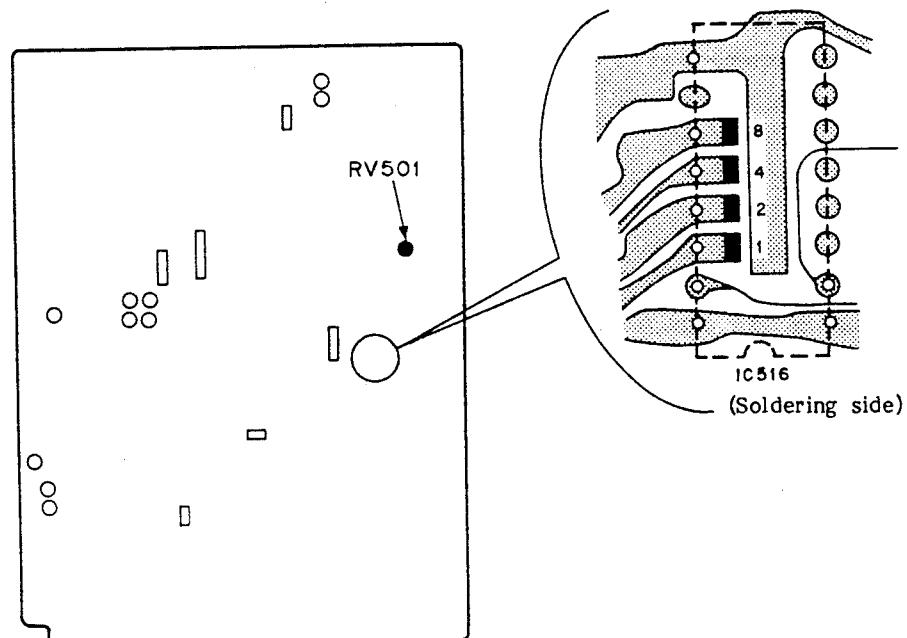
Notes:

- . When the drum related block is replaced, remove the former solder bridges from the DPG tap pattern on the MD servo board.
- . Press the AMS button before the PLAY button is pressed so that the ATF servo system may be properly locked.

(Reference)

**Adjustment Point**

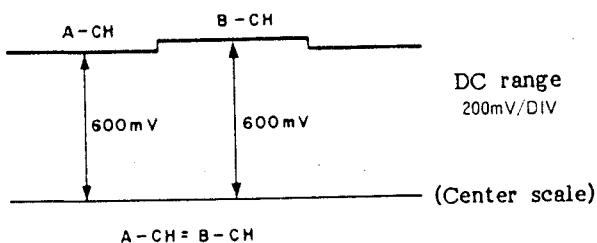
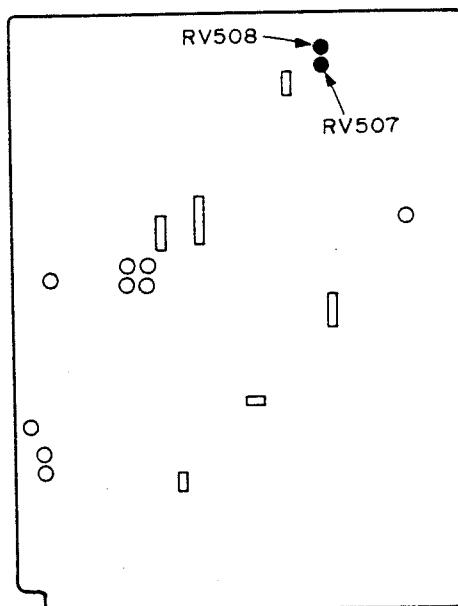
MD servo board (component side)



DPG SW codes	Tap pattern			
	1	2	4	8
1	O			
2		O		
3	O	O		
4			O	
5	O	O		
6		O	O	
7	O	O	O	
8				O
9	O			O
A		O		O
B	O	O		O
C			O	O
D	O		O	O
E		O	O	O
F	O	C	O	O

4-2-12. ATF Pilot Adjustment**Adjustment**

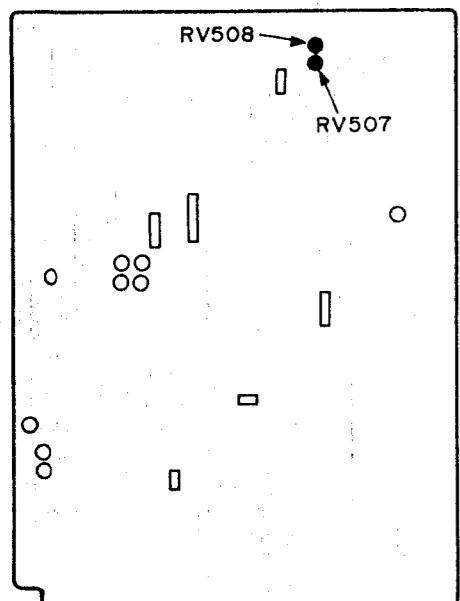
1. Connect CH-1 of an oscilloscope to pin 3 (S/H3) of CNT52. Connect CH-2 of an oscilloscope to pin 6 (SWP) of CNT51 (TRIGGER).
2. Turn on the power switch, insert alignment tape TY-7111, and put the set into the STOP (■) mode. Set the TEST mode to ON.
3. Adjust so that the luminescent spot is located on the scale center. (Never align the spot with the center when the input is set to GND.)
4. Put the set into the PLAY (►) mode and adjust RV508 (A-CH) and RV507 (B-CH) so that the signal waveform is 600 mV after two or three seconds.



Note: If the signal waveform deflects vertically, adjust it in the deflection center.

Adjustment Point

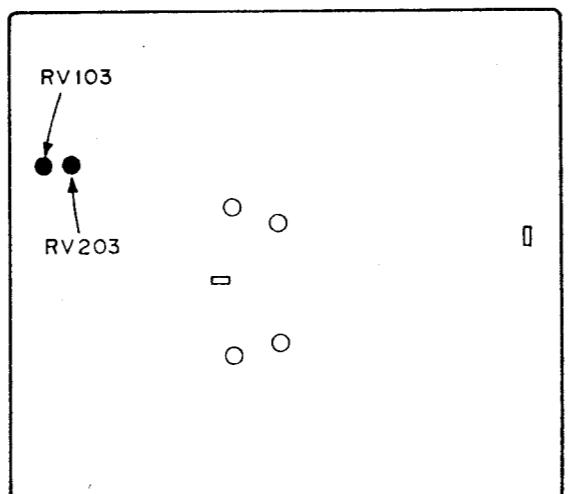
MD servo board (component side)

**4-2-13. Level Meter Adjustment****Adjustment**

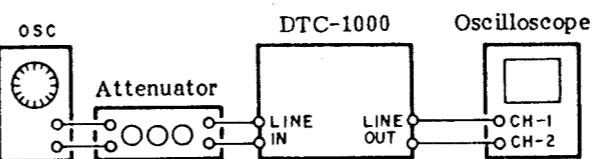
- Set the INPUT select switch to ANALOG and input a 1 kHz signal (-6dB) from the oscillator.
- Turn on the power switch, insert blank tape TY-30B, and put the set into the REC MUTE mode.
- Check the setting of the REC volume control.
- Adjust RV103 (R-CH) and RV203 (L-CH) so that the level meter reads -6dB.

Adjustment Point

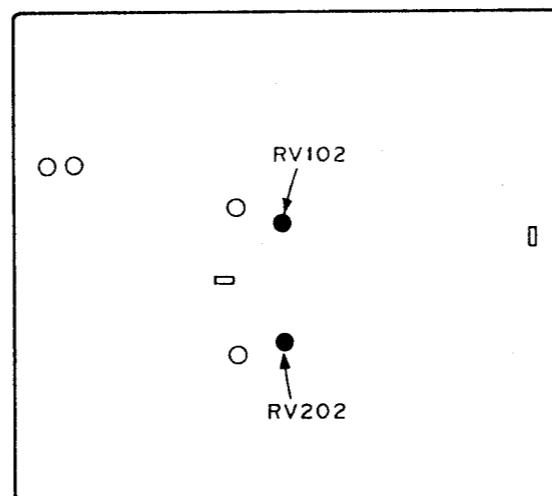
Audio board (component side)

**4-2-14. A/D Distortion Factor Adjustment****Adjustment**

- Set the INPUT select switch to ANALOG and input a 1 kHz signal (0dB) from the oscillator through an attenuator.
- Connect an oscilloscope to the LINE OUT terminal.
- Turn on the power switch, insert blank tape TY-30B, and put the set into the REC MUTE mode.
- Turn the REC volume control until the "OVER" indicator lights, then attenuate the input signal by 1.5dB using an attenuator.
- Adjust RV102 (R-CH) and RV202 (L-CH) so that the signal at the LINE OUT terminal is minimized.

**Adjustment Point**

Audio board (component side)

**4-2-15. VCO Adjustment****Adjustment**

- Unsolder tap pattern ④ on the digital board and open it.
- Connect CH-1 of an oscilloscope to TP801 (on the digital board) and CH-2 of an oscilloscope to TP802 (on the digital board).
- Turn on the power switch, insert recorded blank tape TY-30B, put the set into the TEST mode, and then put the set into the PLAY mode.
(In the self-REC mode, set the REC volume control to MIN.)
- Adjust RV802 so that the DC voltage difference of C819 is approximately -3.0 V.
- Adjust RV801 so that the signal waveform at TP801 satisfies the specification.



- Adjust RV804 so that the signal waveform at TP801 satisfies the specification.



- Put the set into the CUE mode and finely adjust RV802 so that the signal waveform at TP801 satisfies the specification.
(The specified waveform is the same as in Step 6.)
- Put the set into the REVIEW mode and finely adjust RV802 so that the signal waveform at TP801 satisfies the specification.
(The specified waveform is the same as in Step 6.)
- Alternate putting the set into the CUE and REVIEW modes two or three times and check that the signal waveform at TP801 satisfies the specification.
(The specified waveform is the same as in Step 6.)

VCO Adjustment

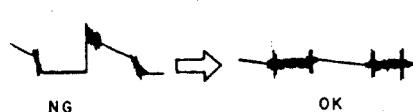
der tap pattern **(A)** on the digital board
open it.

ect CH-1 of an oscilloscope to TP801
(on the digital board) and CH-2 of an
oscope to TP802 (on the digital board).
on the power switch, insert recorded
tape TY-30B, put the set into the
mode, and then put the set into the
mode.

the self-REC mode, set the REC volume
ol to MIN.)

t RV802 so that the the DC voltage
ence of C819 is approximately -3.0 V.

t RV801 so that the signal waveform at
l satisfies the specification.



t RV804 so that the signal waveform at
satisfies the specification.



he set into the CUE mode and finely
RV802 so that the signal waveform at
satisfies the specification.

specified waveform is the same as in
6.)

he set into the REVIEW mode and finely
RV802 so that the signal waveform at
satisfies the specification.

specified waveform is the same as in
6.)

rate putting the set into the CUE and
REW modes two or three times and check
the signal waveform at TP801 satisfies
specification.

specified waveform is the same as in
6.)

10. Turn off the power switch and solder-bridge
the tap pattern.

11. Turn on the power switch and put the set
into the PLAY (►) mode again.

12. Readjust RV802 so that the signal waveform
at TP801 satisfies the specification.
(The specified waveform is the same as in
Step 6.)

13. Put the set into the CUE mode and finely
adjust RV802 so that the signal waveform
at TP801 satisfies the specification.



14. Put the set into the REVIEW mode and
check the signal waveforms at TP801 and
C819.

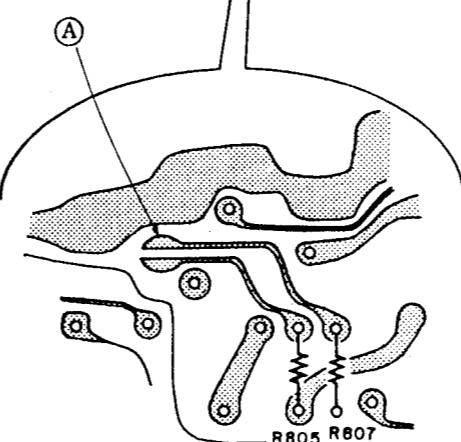
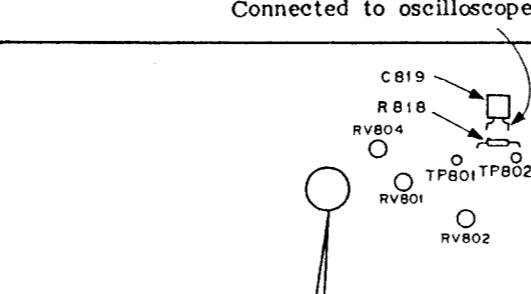
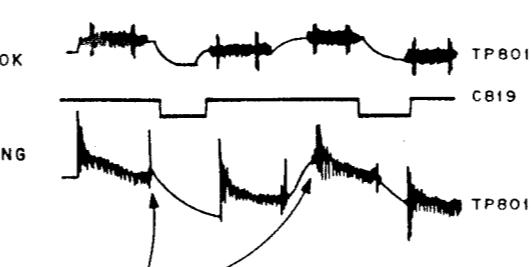


15. Put the set into the PLAY mode and check
the signal waveform at TP801.
(The specified waveform is the same as in
Step 11.)

16. Put the set into the FF AMS and REW AMS
modes and check the signal waveforms at
TP801 and C819 (in the 16 times normal
speed mode).



17. Set the TEST mode to OFF, put the set
into the FF AMS and REW AMS modes, and
check the signal waveforms at TP801 and
C819 (in the AMS mode).



SECTION 5 DIAGRAMS

Note:

- All capacitors are in μF unless otherwise noted. pF : $\mu\mu\text{F}$
50 WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and $1/4\text{W}$ or less unless otherwise specified.

Note: The components identified by shading and mark are critical for safety. Replace only with part number specified.

- : internal component.
- : fusible resistor.
- : B+ bus.
- : B- bus.
- : adjustment for repair.
- Voltages are dc with respect to ground unless otherwise noted.
- Readings are taken under no-signal (detuned) conditions with a VOM ($50 \text{k}\Omega/\text{V}$).
- Voltage variations may be noted due to normal production tolerances.
- Waveforms are taken to ground in STOP mode by using oscilloscope.
- Voltage variations may be noted due to normal production tolerances.
- : playback signal path
- : record signal path

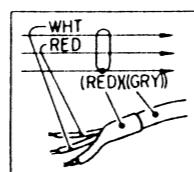
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• Semiconductor Location

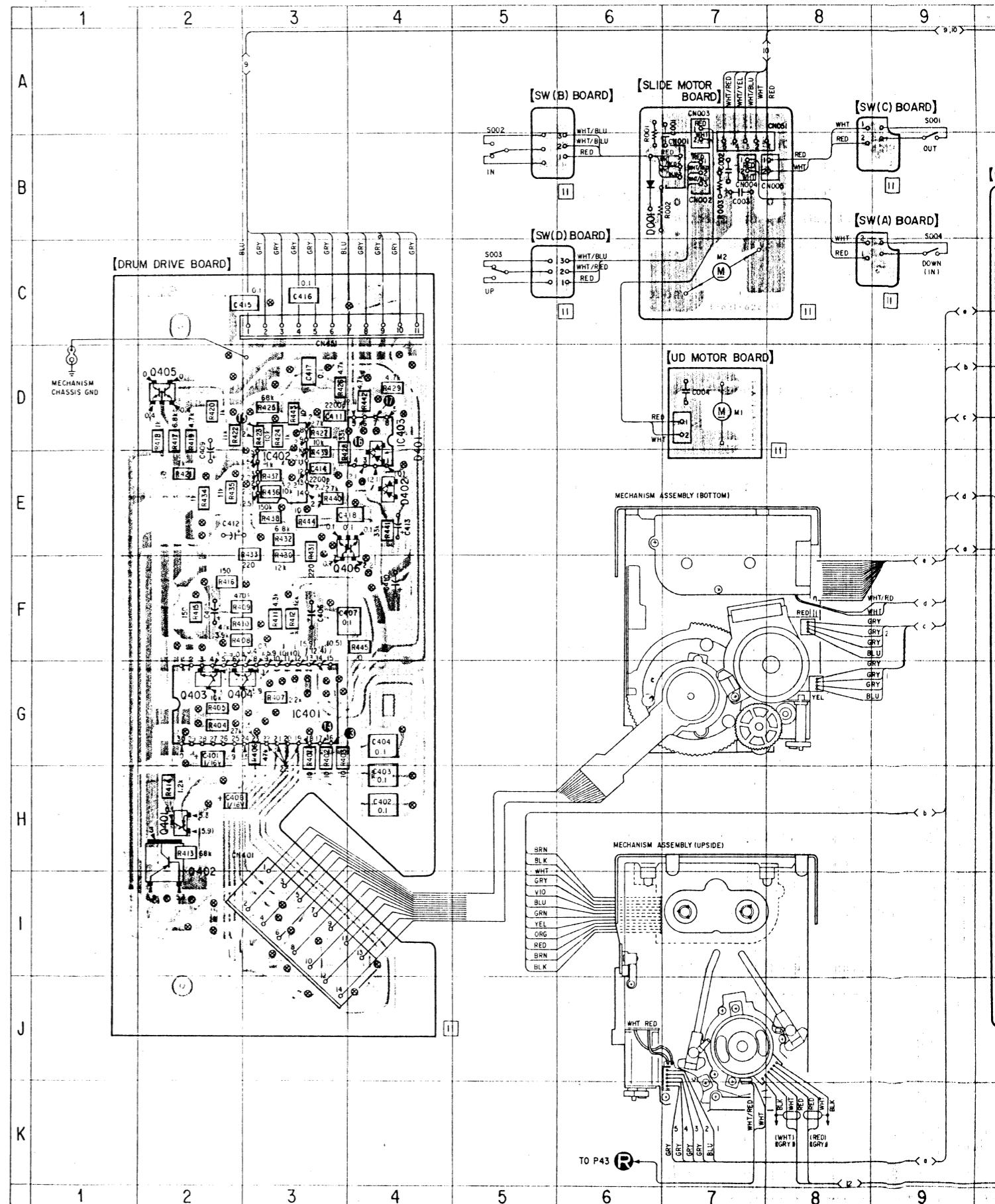
Ref. No.	Ref. No.	Ref. No.
D001	B-6	IC532
D401	E-4	IC533
D402	E-4	IC534
D501	H-20	IC535
D502	E-14	IC536
D503	E-20	IC537
D504	F-11	IC538
D505	G-11	IC801
D506	H-11	IC802
D507	D-14	IC805
D508	D-12	IC806
D509	I-13	IC807
D510	G-13	IC808
D511	E-14	IC851
D801	D-31	IC852
D802	D-31	IC853
IC401	G-3	IC854
IC402	E-3	IC855
IC403	D-4	IC856
IC501	F-20	IC951
IC502	G-20	Q401
IC503	H-20	Q402
IC504	H-20	Q403
IC505	I-19	Q404
IC506	I-19	Q405
IC507	I-18	Q406
IC508	J-19	Q501
IC509	J-18	Q502
IC510	H-18	Q503
IC511	E-16	Q504
IC512	G-14	Q505
IC513	D-16	Q506
IC514	C-15	Q507
IC515	D-16	Q508
IC516	D-15	Q509
IC517	C-16	Q510
IC518	E-17	Q511
IC519	D-18	Q512
IC520	D-19	Q513
IC521	I-14	Q514
IC522	I-16	Q515
IC523	H-15	Q516
IC524	J-14	Q517
IC525	I-15	Q518
IC526	J-16	Q519
IC527	D-20	Q520
IC528	G-12	Q521
IC529	F-12	Q522
IC530	F-11	Q523
IC531	I-11	Q524
		F-12

Note:

- Color code of sleeving over the end of the jacket.

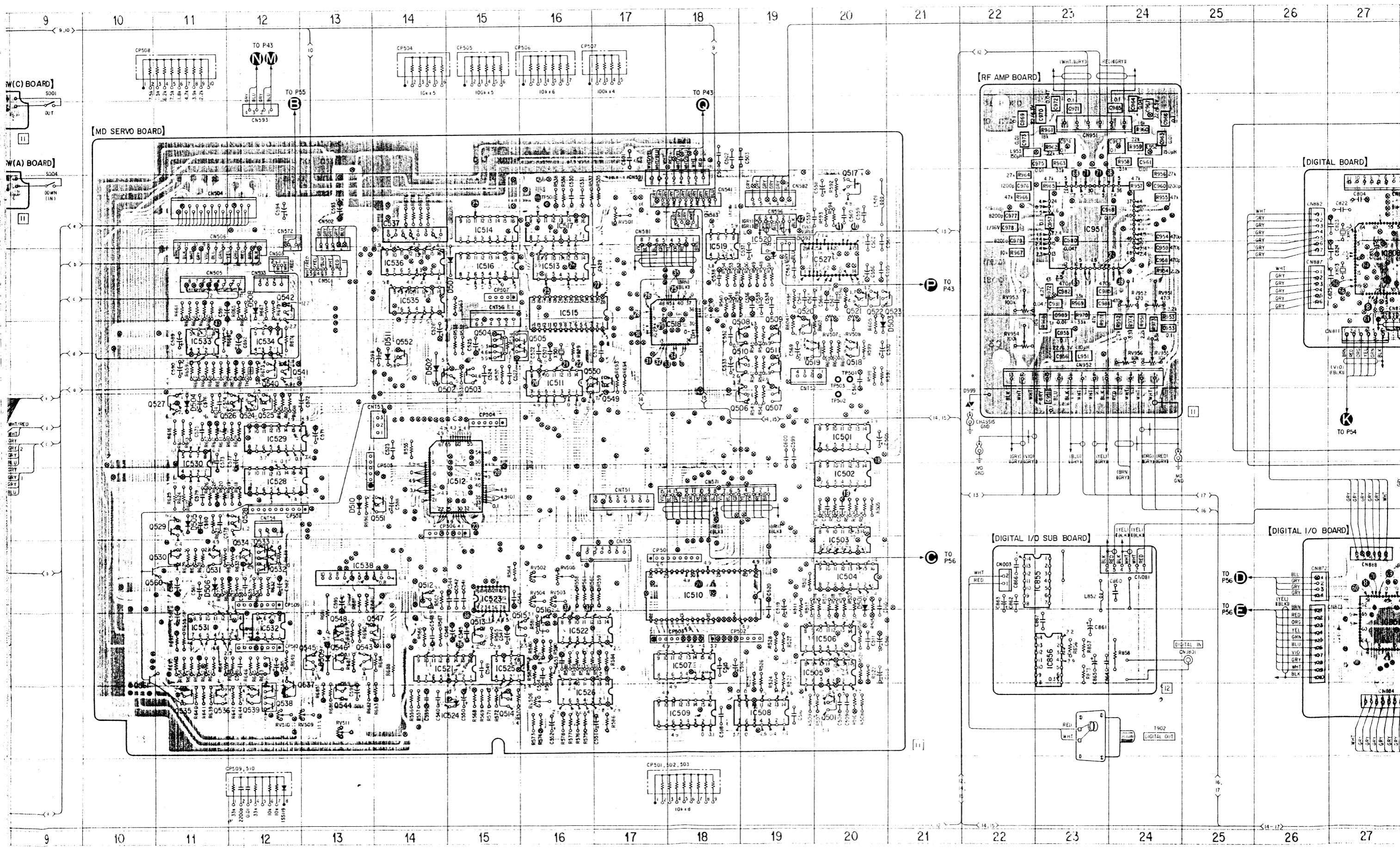


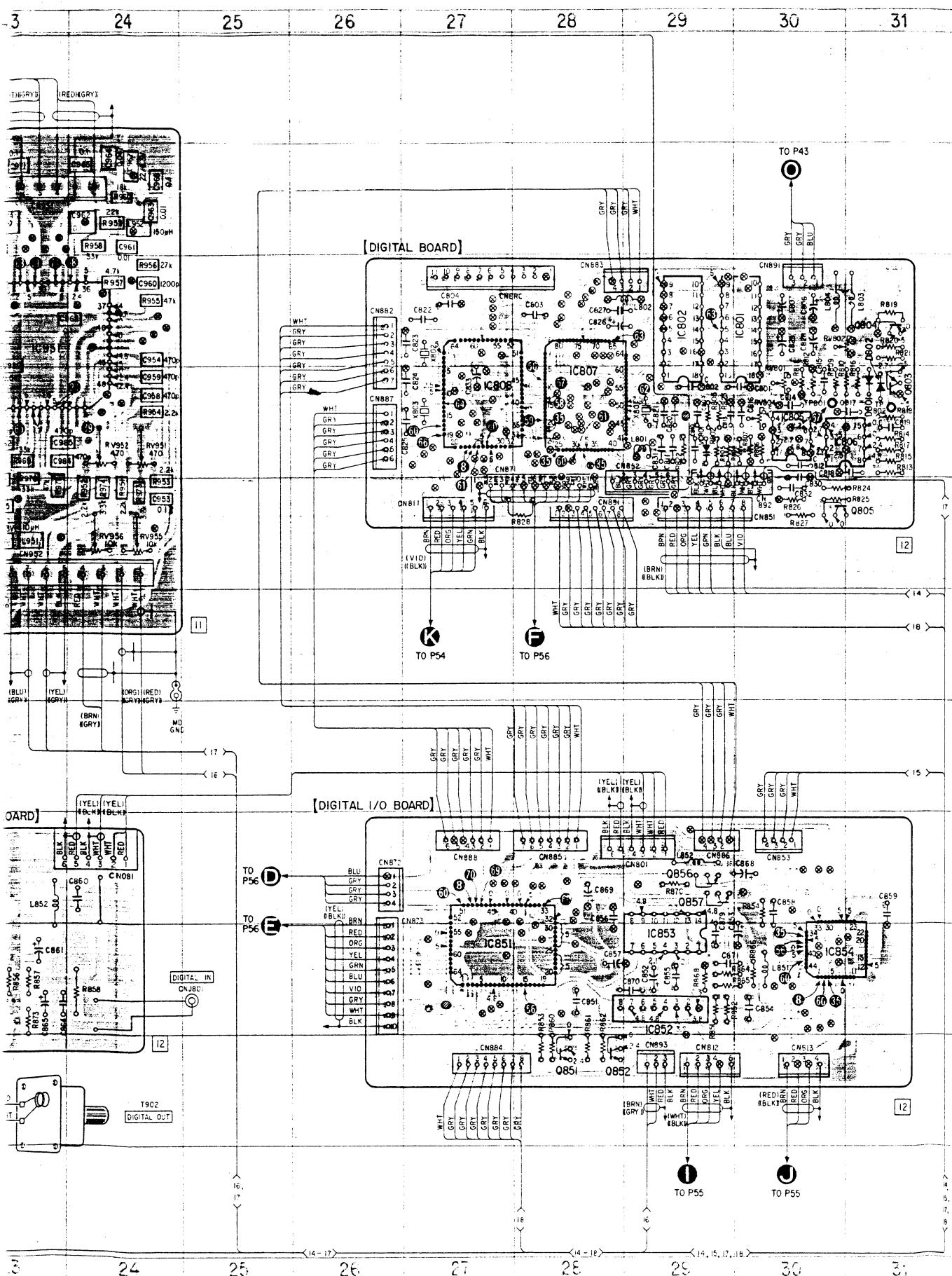
- : parts extracted from the component side.
- : parts extracted from the conductor side.
- : part mounted on the conductor side.
- : Through hole.

5-1. MOUNTING DIAGRAM (MD SERVO & DIGITAL BLOCK)

DTC-1000ES DTC-1000ES

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5-2. SCHEMATIC DIAGRAM (MD SERVO BLOCK)

1

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3

4

5

6

7

A

B

C

D

E

F

G

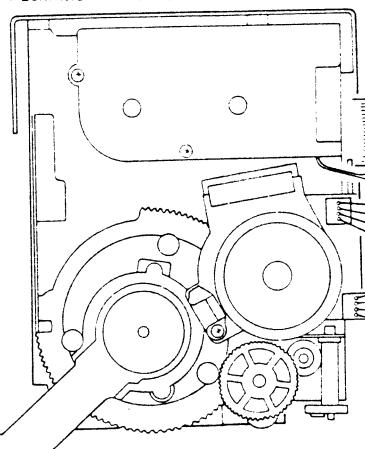
H

I

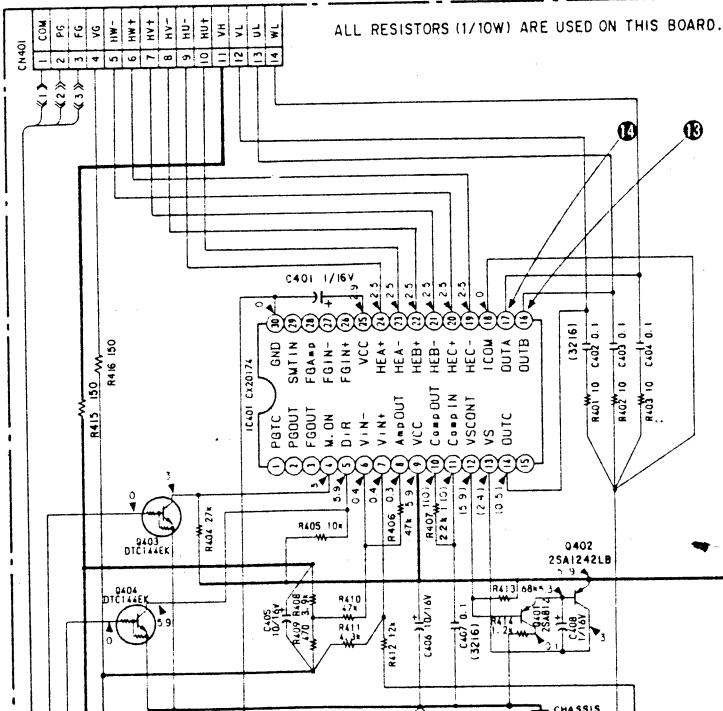
J

MECHANISM ASSEMBLY (BOTTOM)

[MD SERVO BOARD]



[DRUM DRIVE BOARD]



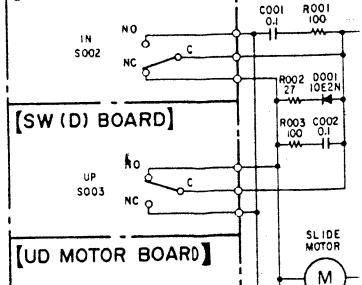
CN524 20P

1	TLEDON	C45
2	VCC	C46
3	TPHOUT	C47
4	GND	
5	XSOFT	M43
6	COM	O+5V
7	RECEN	M12
8	CASIN	M11
9	COM	O+5V
10	X1.5TP	M6
11	SLEDON	C49
12	VCC	C50
13	SPHOUT	C51
14	GND	
15	HE+	
16	+8	
17	HE-	
18	GND	
19	COM	O+5V
20	L1MSW	M42

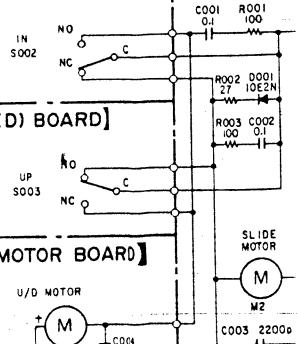
1	PLN1	C36
2	PLM2	C37

1	OUTB	
2	GND	
3	OUTA	
4	VCC	
5	VS	
6	GND (6)	
7	6V	
8	+6V	
	RS	M21

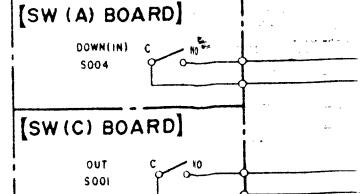
[SW (B) BOARD]



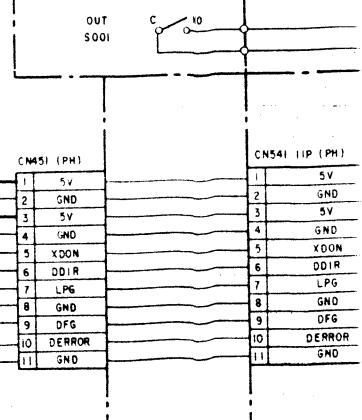
[SLIDE MO



[SW (A) BOARD]



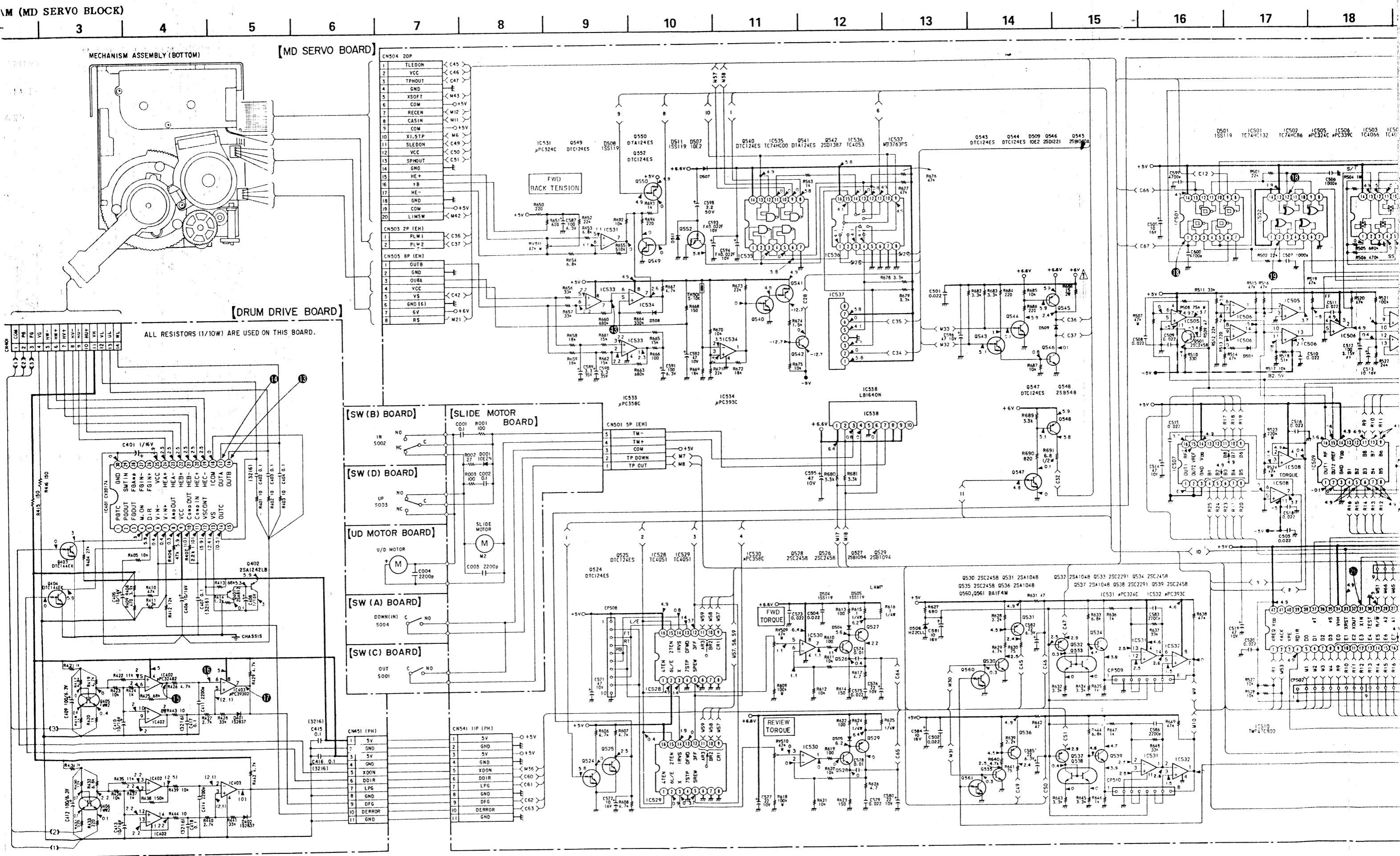
[SW (C) BOARD]

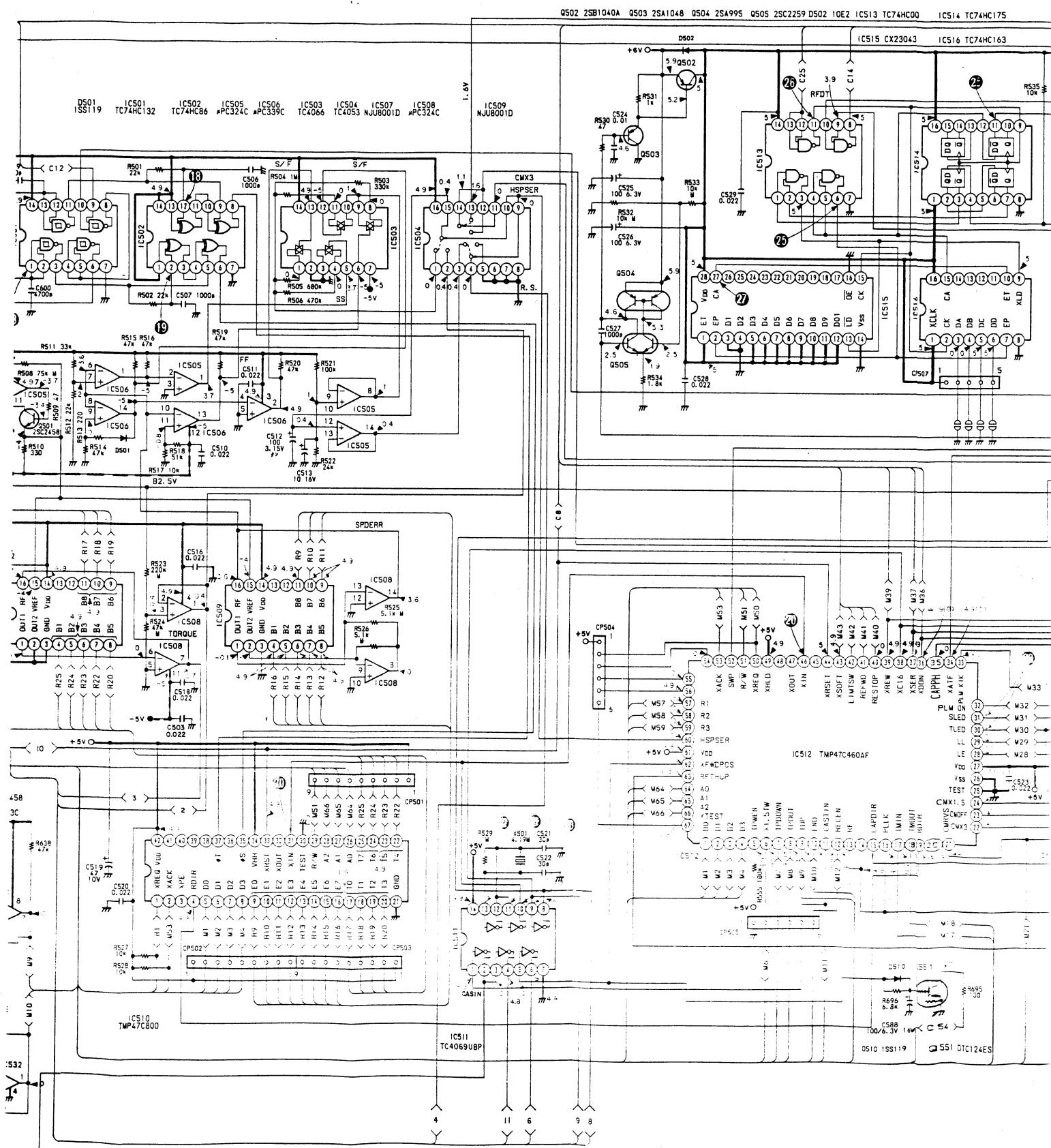


CN541 11P (PH)

1	5V	
2	GND	
3	5V	
4	GND	
5	XDDN	
6	DDIR	
7	LPG	
8	GND	
9	DFG	
10	DERROR	
11	GND	

DTC-1000ES DTC-1000ES





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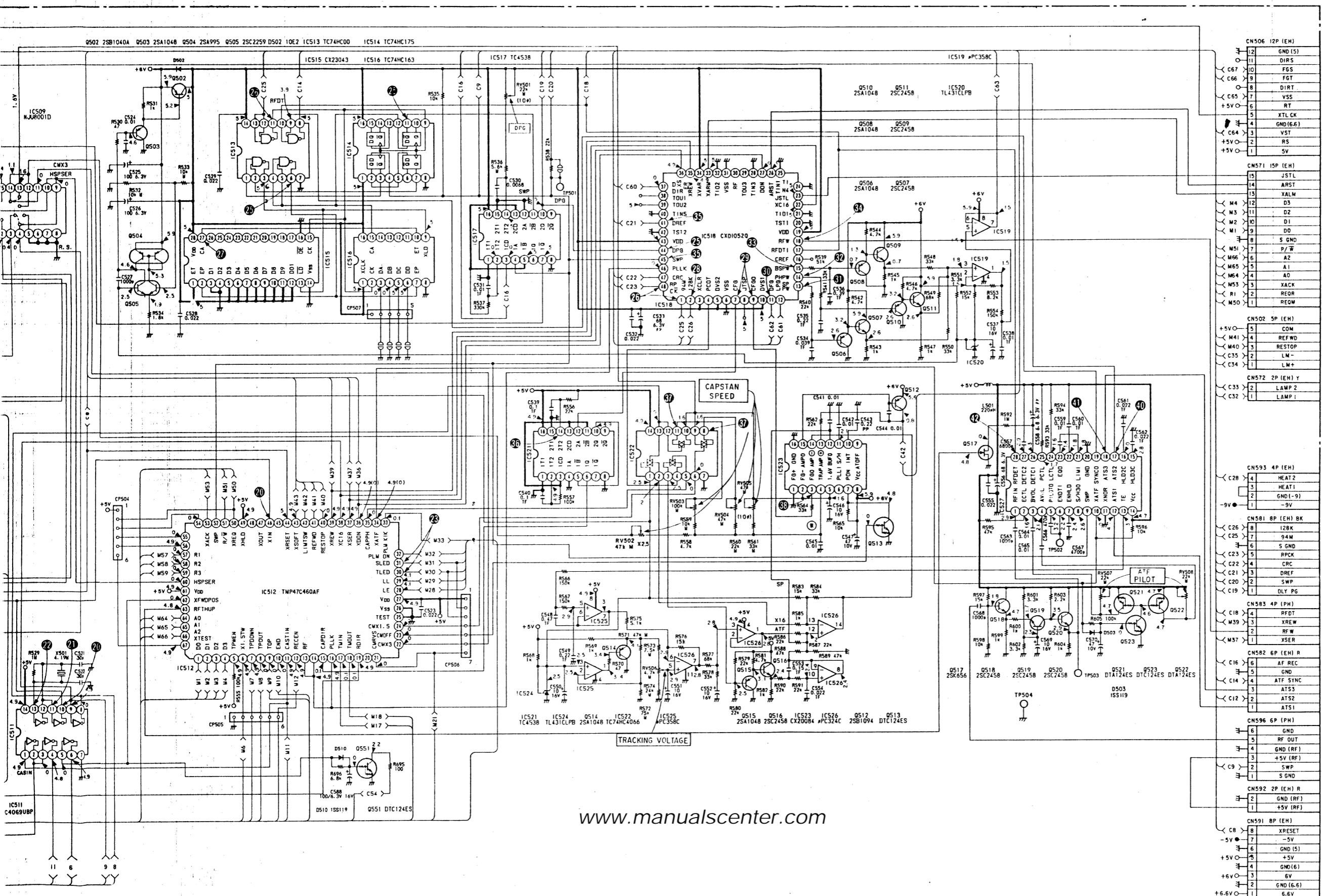
31

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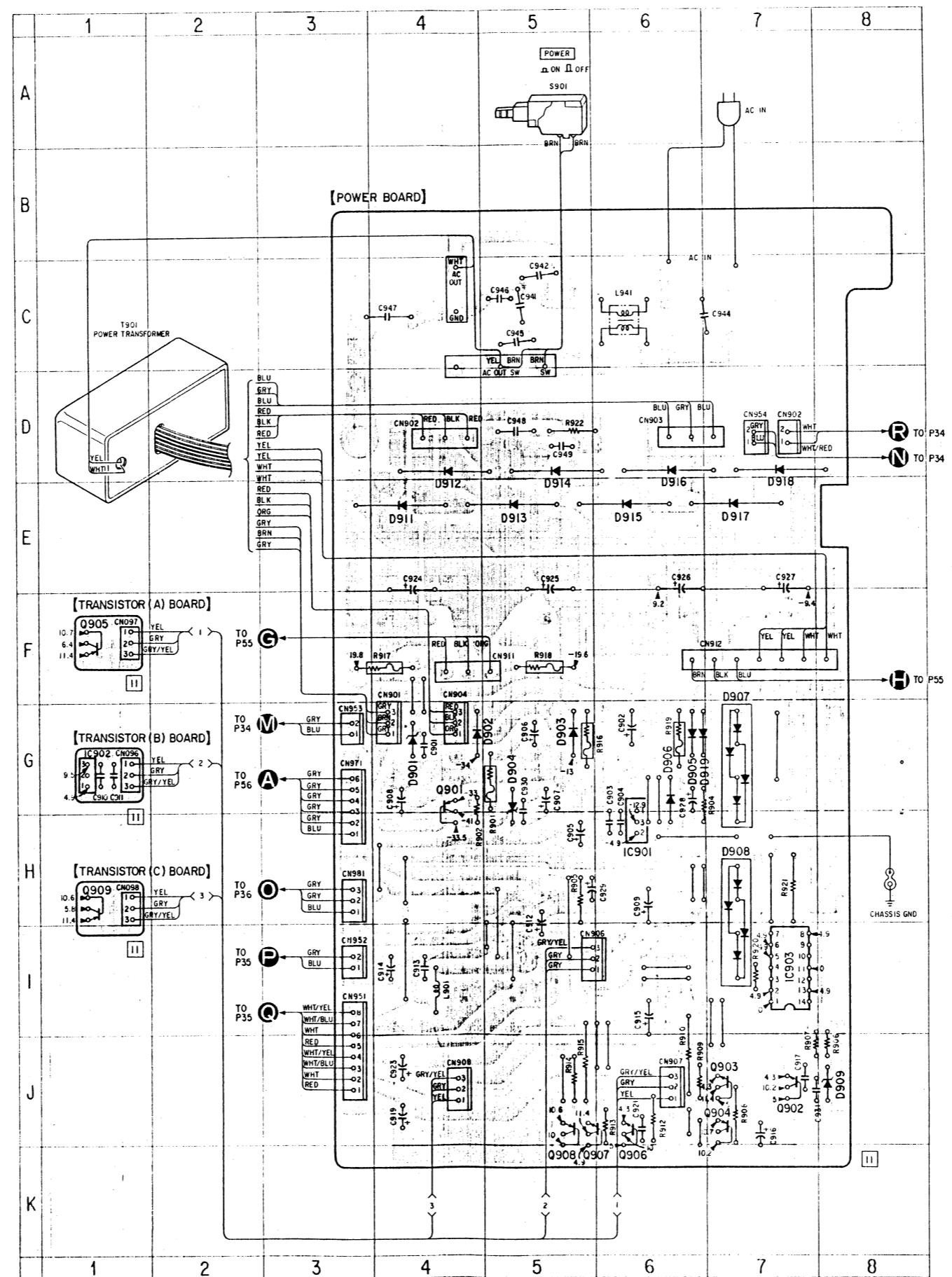
35



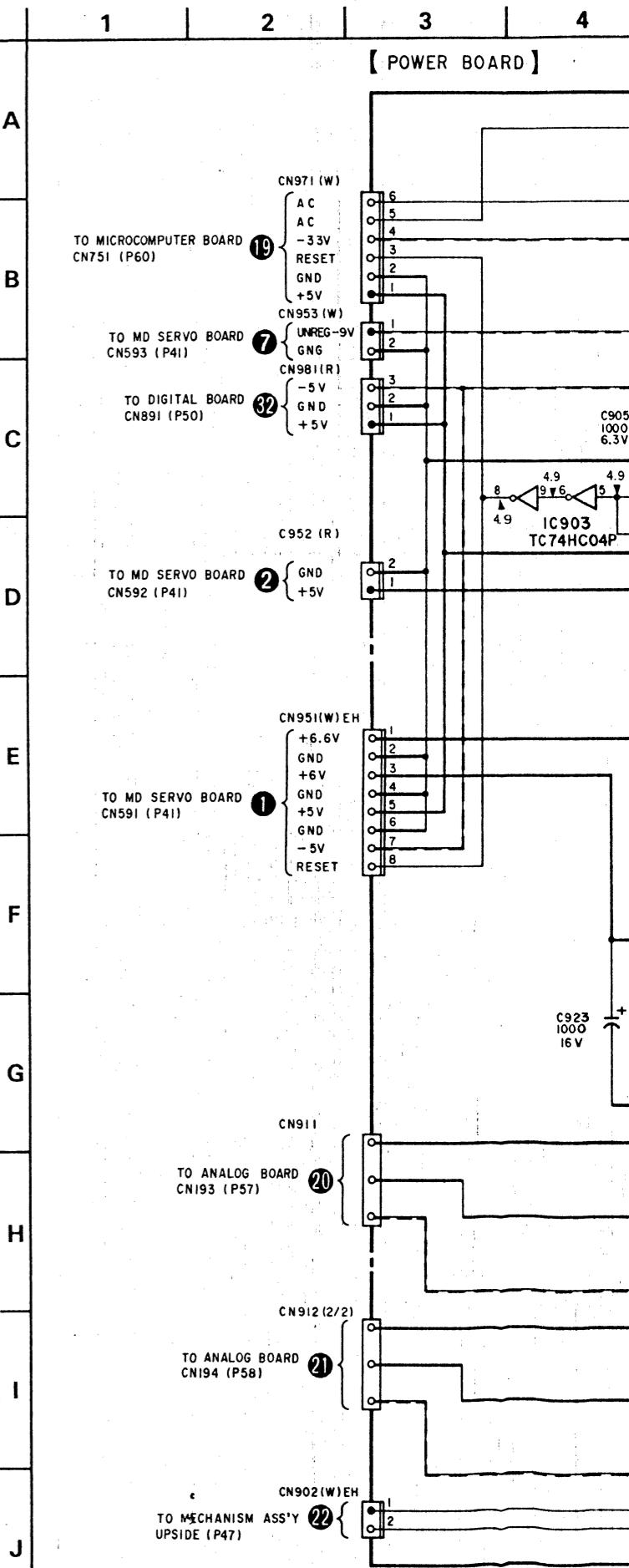
5-3. MOUNTING DIAGRAM (POWER BLOCK)

Semiconductor Location

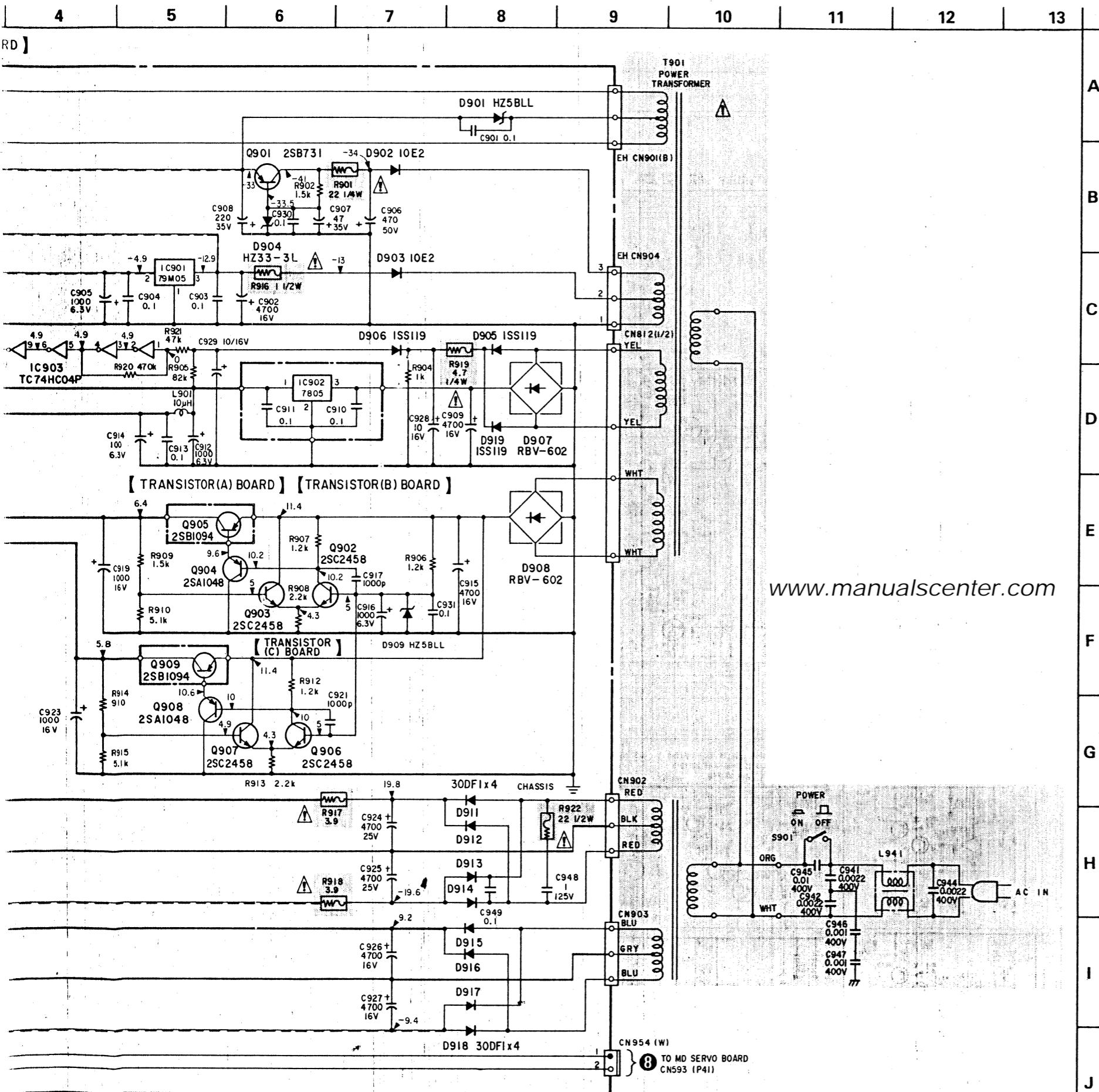
Ref. No.	
D901	G-4
D902	G-4
D903	G-5
D904	G-5
D905	G-6
D906	G-6
D907	G-7
D908	H-7
D909	J-7
D911	E-4
D912	D-4
D913	E-5
D914	D-5
D915	E-6
D916	D-6
D917	E-7
D918	D-7
D919	G-6
IC901	H-6
IC902	G-1
IC903	I-7
Q901	G-4
Q902	J-7
Q903	J-7
Q904	J-7
Q905	F-1
Q906	J-6
Q907	J-5
Q908	J-5
Q909	H-1



5-4. SCHEMATIC DIAGRAM (POWER BLOCK)

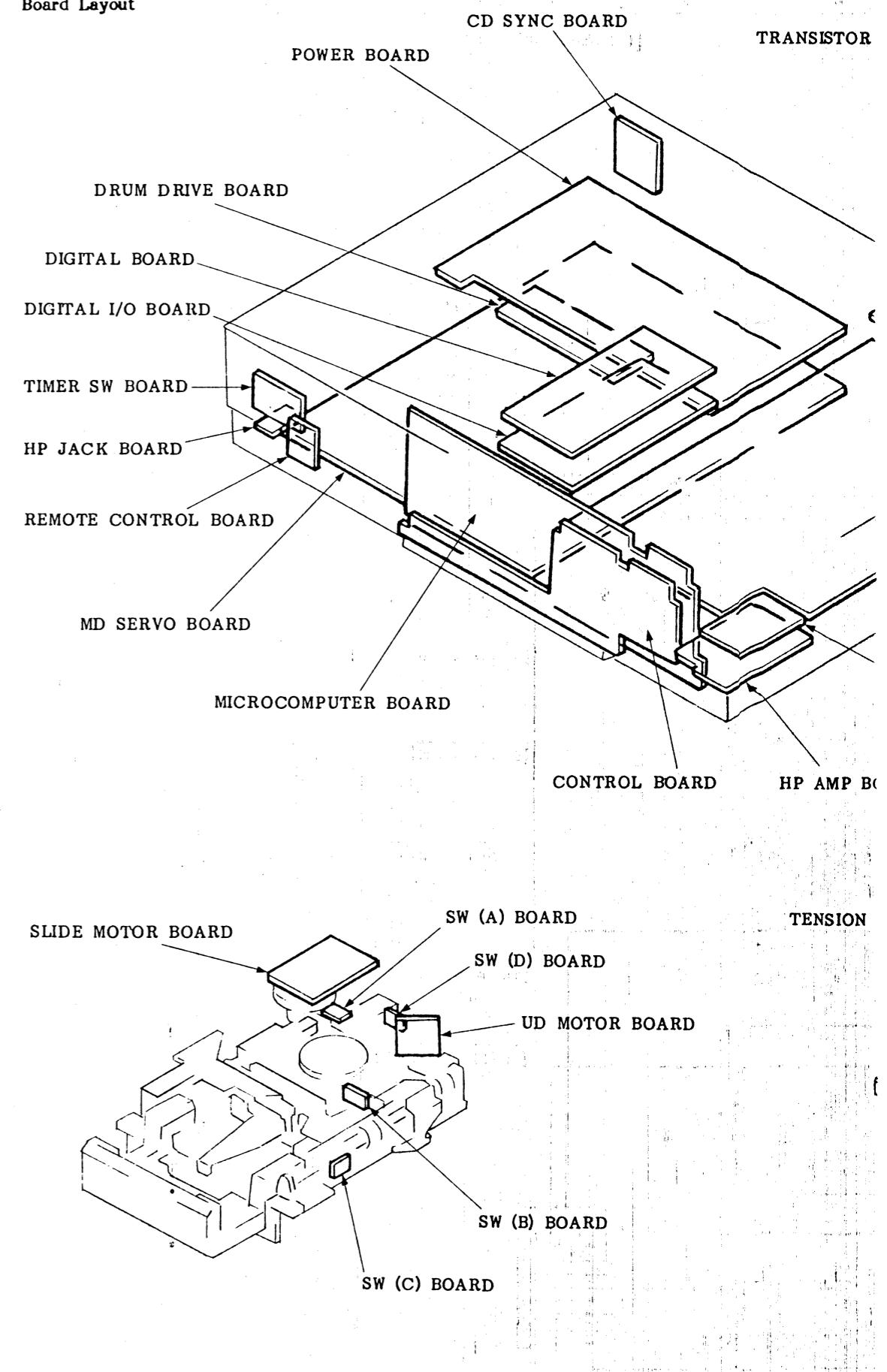


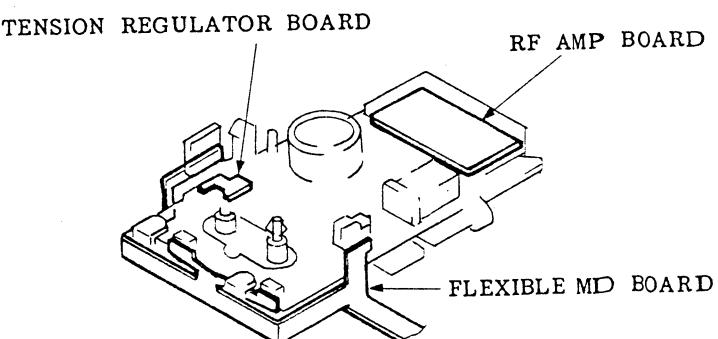
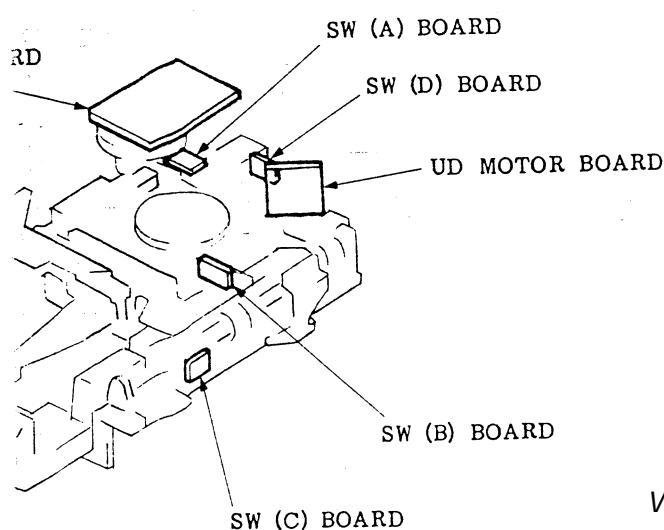
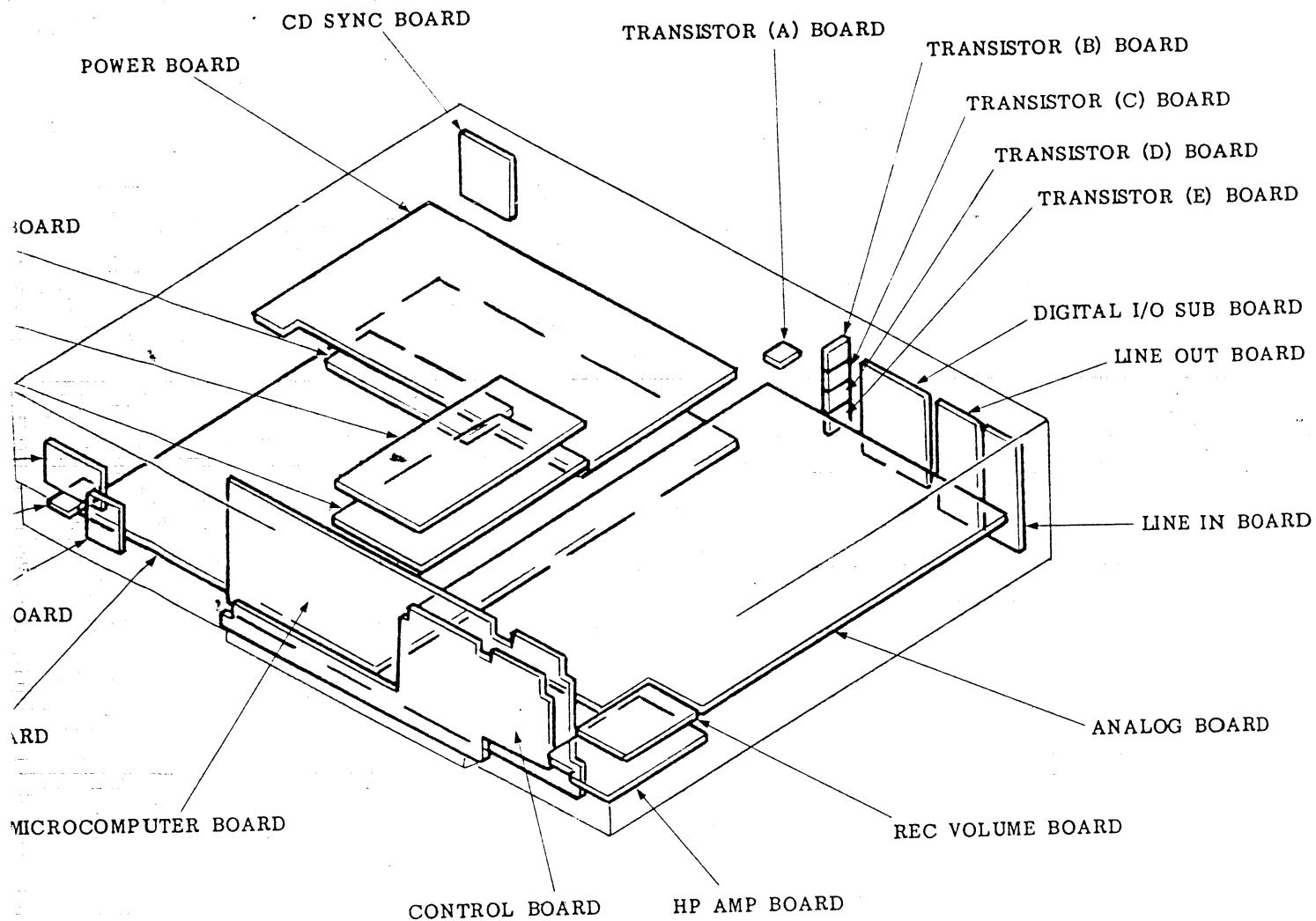
DTC-1000ES DTC-1000ES



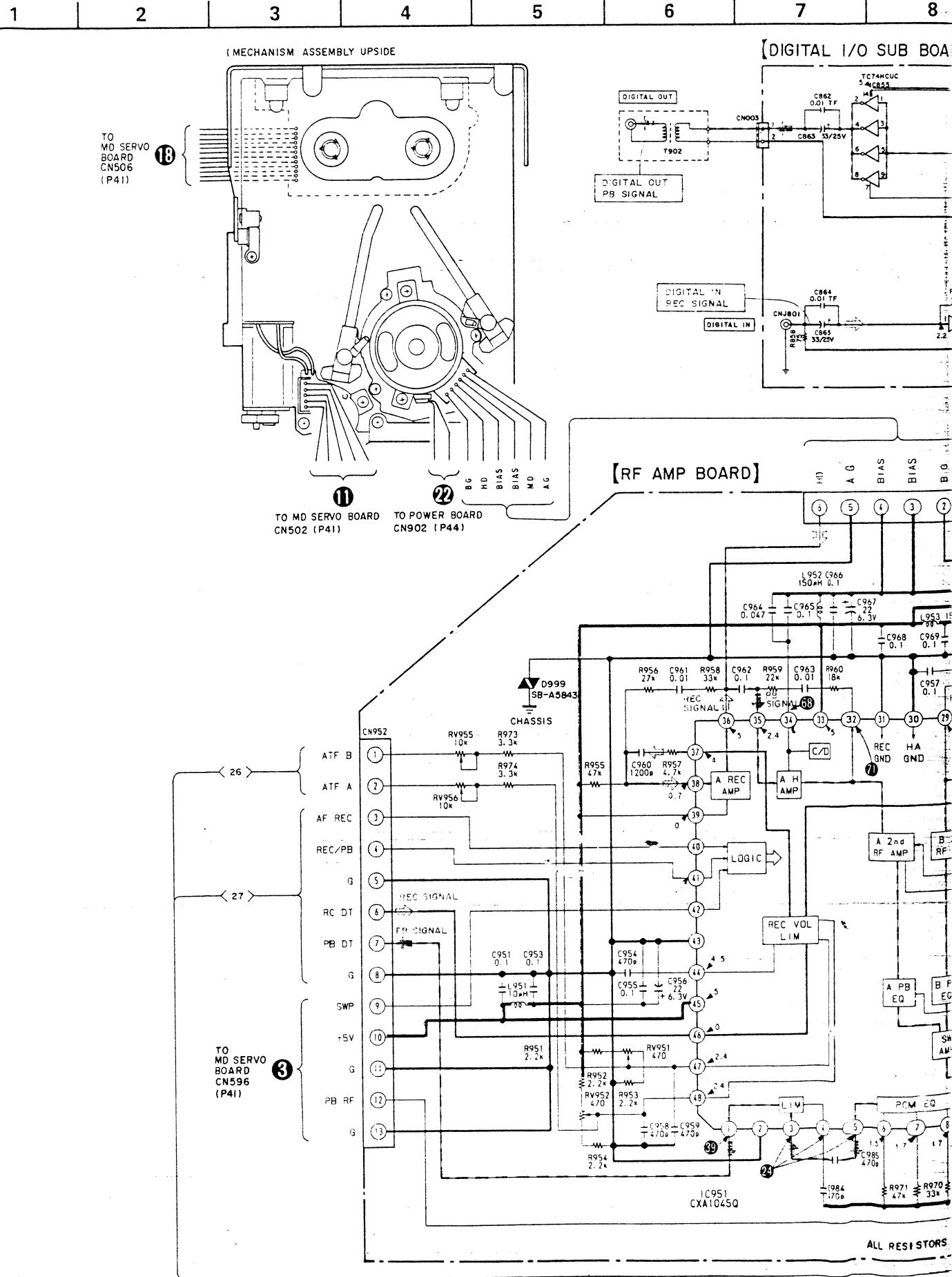
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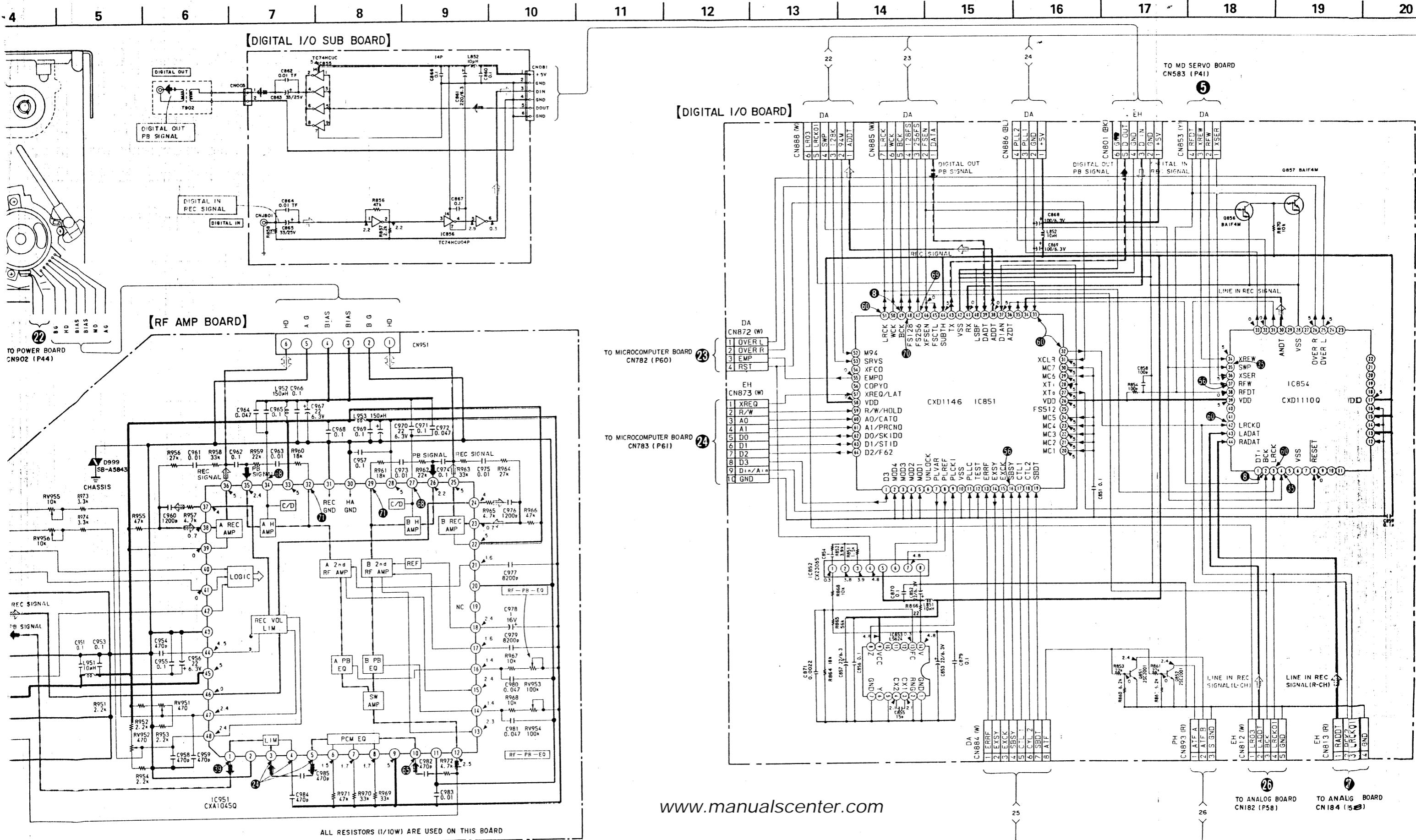
Board Layout





5-4. SCHEMATIC DIAGRAM (DIGITAL BLOCK)





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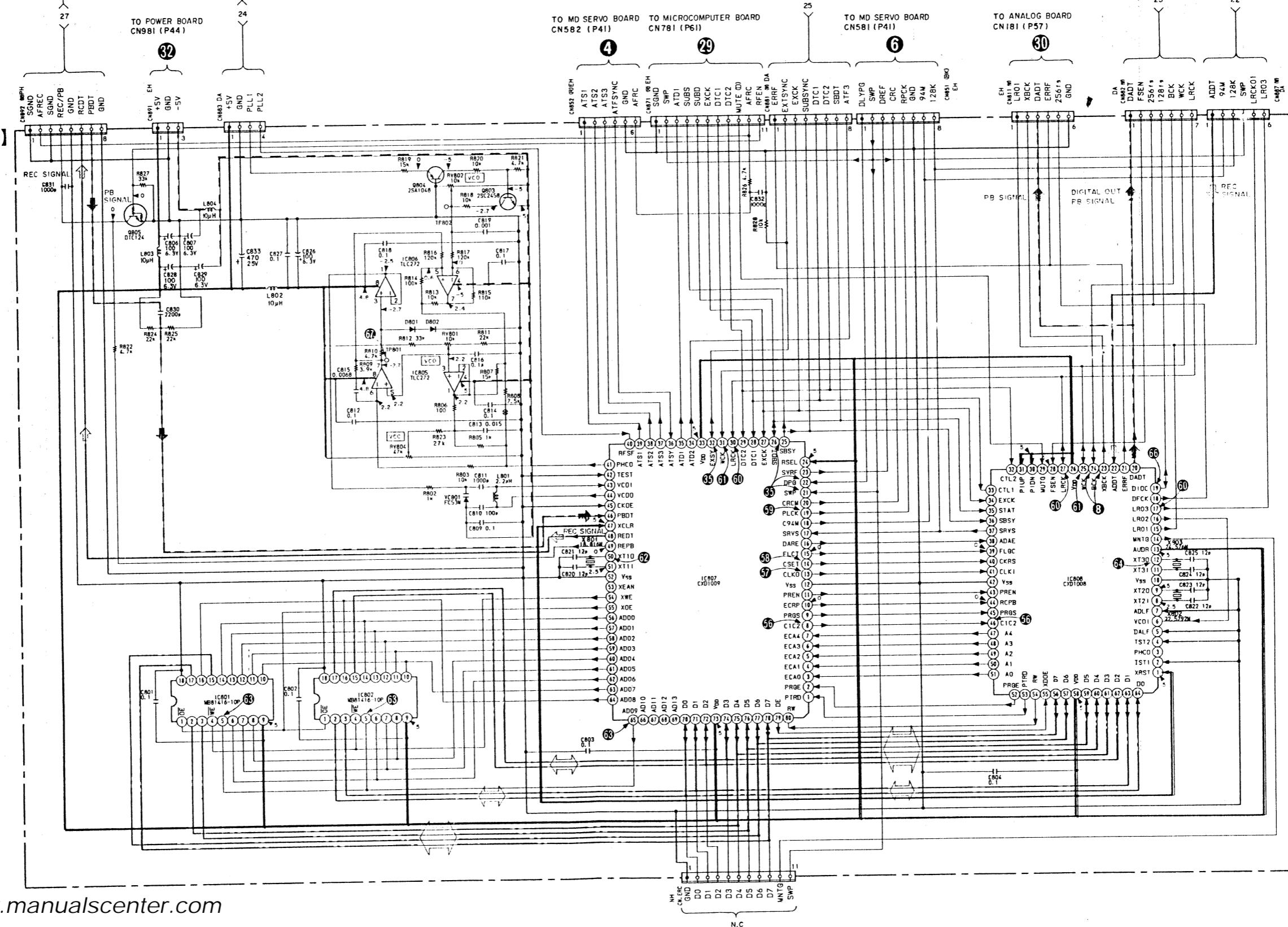
32

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[DIGITAL BOARD]



5-5. MOUNTING DIAGRAM (ANALOG & MICROCOMPUTER BLOCK)

• Semiconductor Location

Ref. No.	Ref. No.	Ref. No.	Ref. No.
D101	E-12	IC205	I-10
D102	E-6	IC301	D-13
D103	E-6	IC302	F-15
D104	F-6	IC303	I-12
D105	E-10	IC304	G-11
D201	C-12	IC305	H-7
D202	E-6	IC306	E-6
D203	E-6	IC307	H-6
D204	F-6	IC308	A-16
D205	D-10	IC309	A-15
D301	H-15	IC310	H-3
D302	H-15	IC311	F-14
D304	I-15	IC701	G-19
D305	H-9	IC702	F-19
D306	H-8	IC703	F-21
D307	G-3	IC704	G-25
D308	G-3	IC705	F-24
D701	F-28	IC706	G-27
D702	F-27	IC751	J-22
D703	F-27	Q101	F-11
D704	F-27	Q102	F-6
D705	F-27	Q201	D-11
D706	F-27	Q202	F-7
D707	F-27	Q301	H-6
D708	F-27	Q302	H-7
D709	F-27	Q303	I-7
D710	G-23	Q304	I-7
D711	G-26	Q305	H-7
D712	F-26	Q306	H-7
D713	F-27	Q307	G-15
D714	F-27	Q308	G-14
D715	F-27	Q309	F-15
D717	F-22	Q310	G-15
D718	F-22	Q311	I-15
D719	F-22	Q312	I-14
D720	F-22	Q313	I-14
D721	F-26	Q314	I-15
D751	C-22	Q701	G-25
D752	C-27	Q702	G-24
D753	D-25	Q703	G-24
D754	C-22	Q704	F-22
IC101	E-8	Q705	F-22
IC102	E-10	Q706	G-22
IC103	E-12	Q707	G-22
IC104	E-13	Q708	F-22
IC105	G-10	Q709	F-22
IC201	D-8		
IC202	D-10		
IC203	C-12		
IC204	C-13		

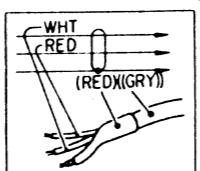
Note: The components identified by shading and mark  are critical for safety. Replace only with part number specified.

-  : internal component.
-  : fusible resistor.
-  : B+ bus.
-  : B- bus.
-  : adjustment for repair.
- Voltages are dc with respect to ground unless otherwise noted.
- Readings are taken under no-signal (detuned) conditions with a VOM (50 kΩ/V).
- Voltage variations may be noted due to normal production tolerances.
- Waveforms are taken to ground in STOP mode by using oscilloscope. Voltage variations may be noted due to normal production tolerances.
-  playback signal path
-  record signal path

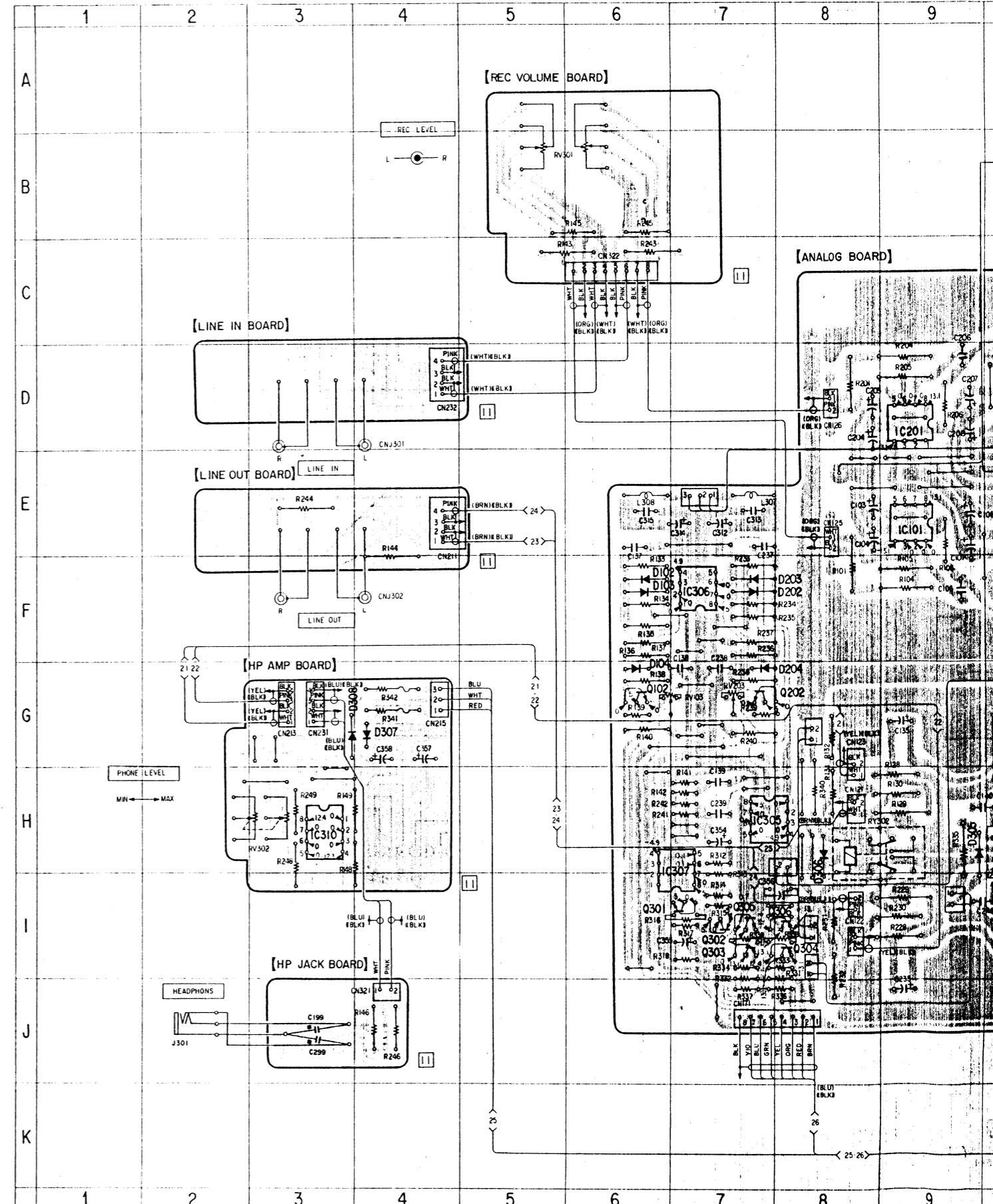
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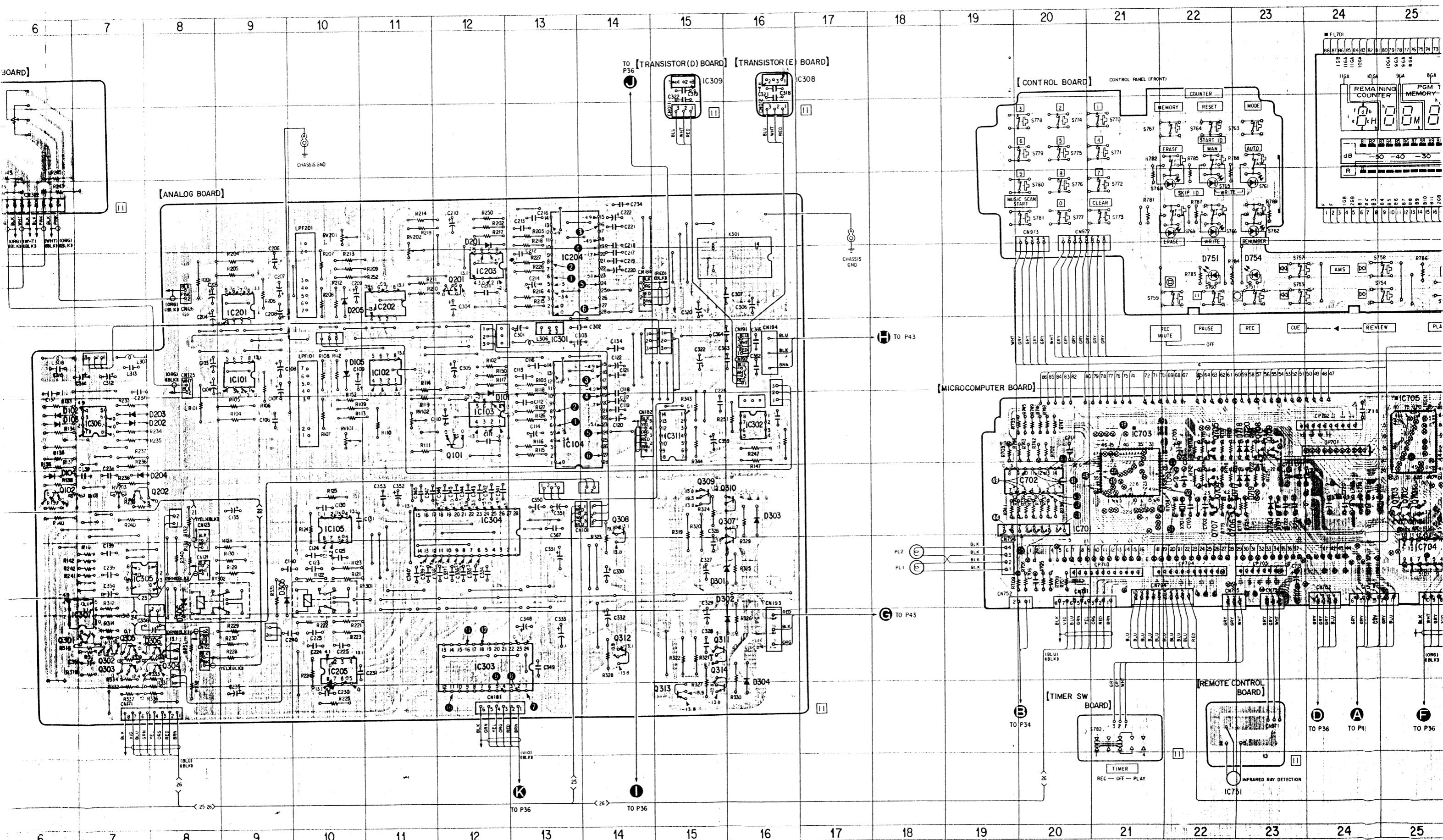
Note:

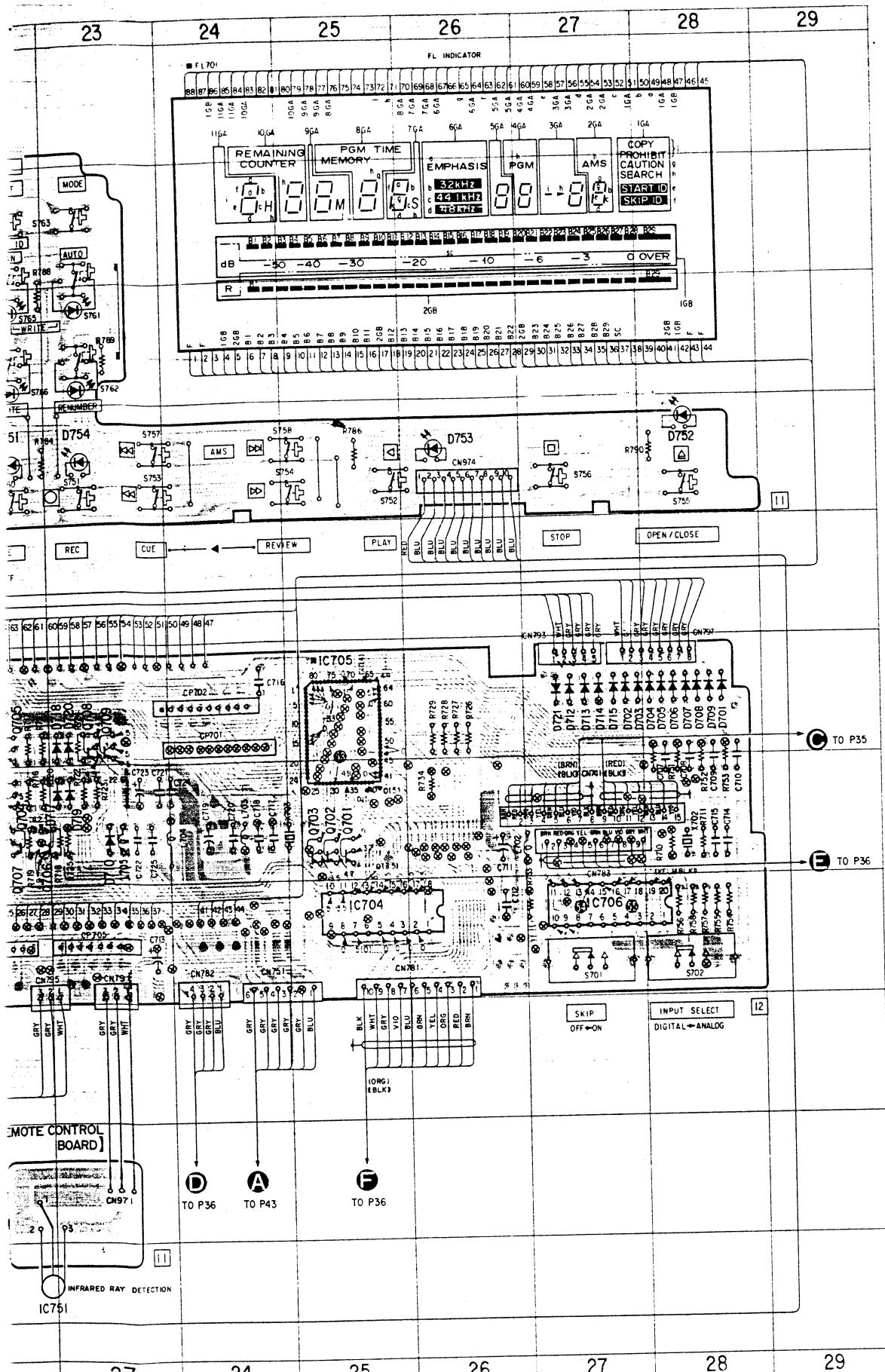
- Color code of sleeving over the end of the jacket.



-  : parts extracted from the component side.
-  : parts extracted from the conductor side.
-  : part mounted on the conductor side.
-  : Through hole.







5-6. SCHEMATIC DIAGRAM (ANALOG & MICROCOMPUTER BLOCK)

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[ANALOG BOARD]

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D

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J

[REC VOLUME BOARD]

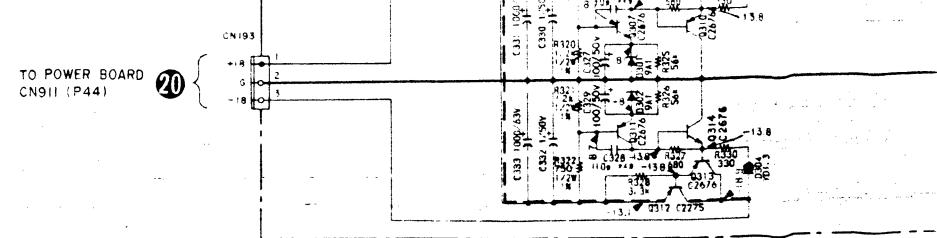
[LINE IN BOARD]

TO DIGITAL BOARD
CN811 (P51)

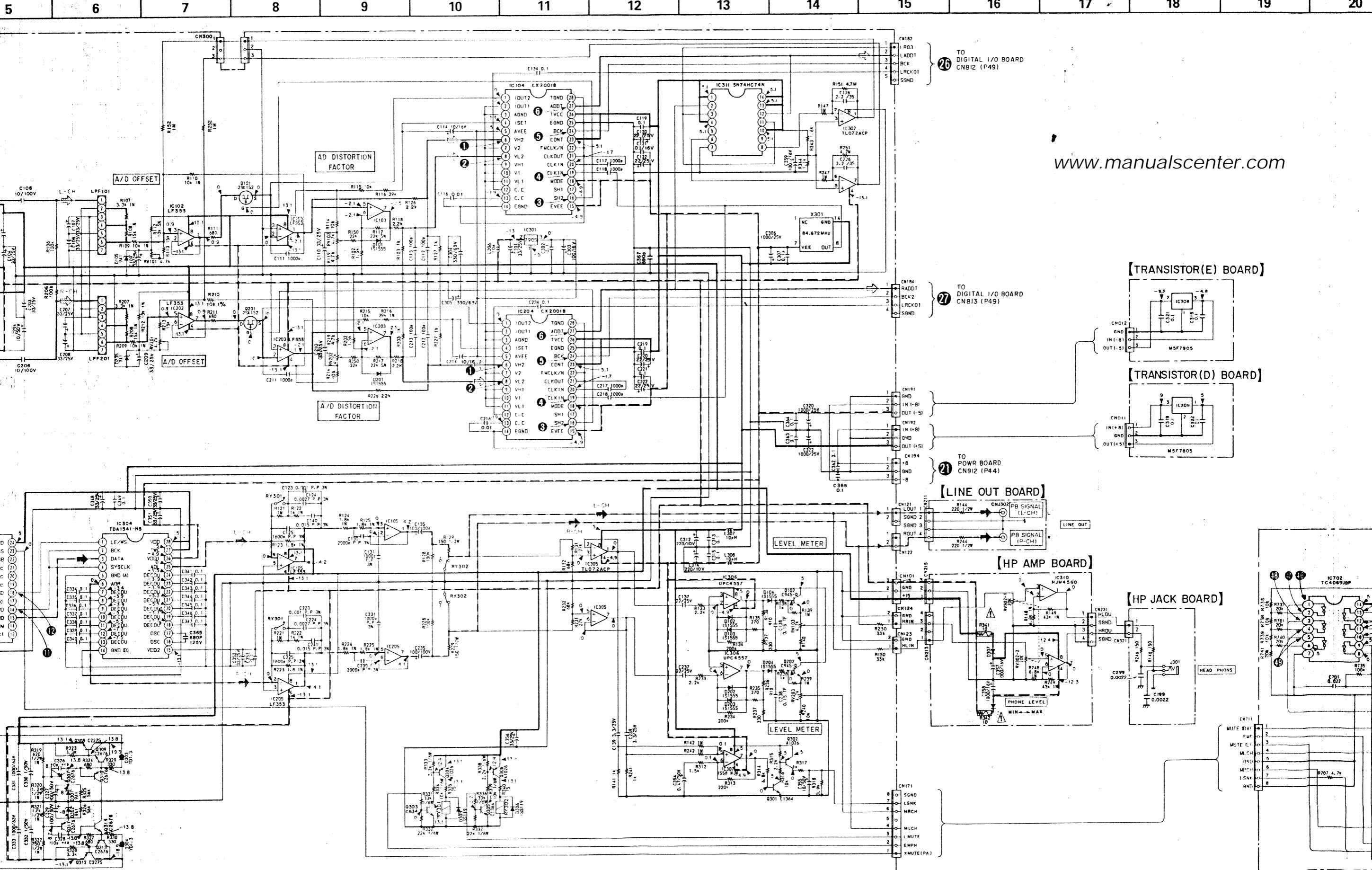
⑩

TO POWER BOARD
CN911 (P44)

⑪



UTER BLOCK)



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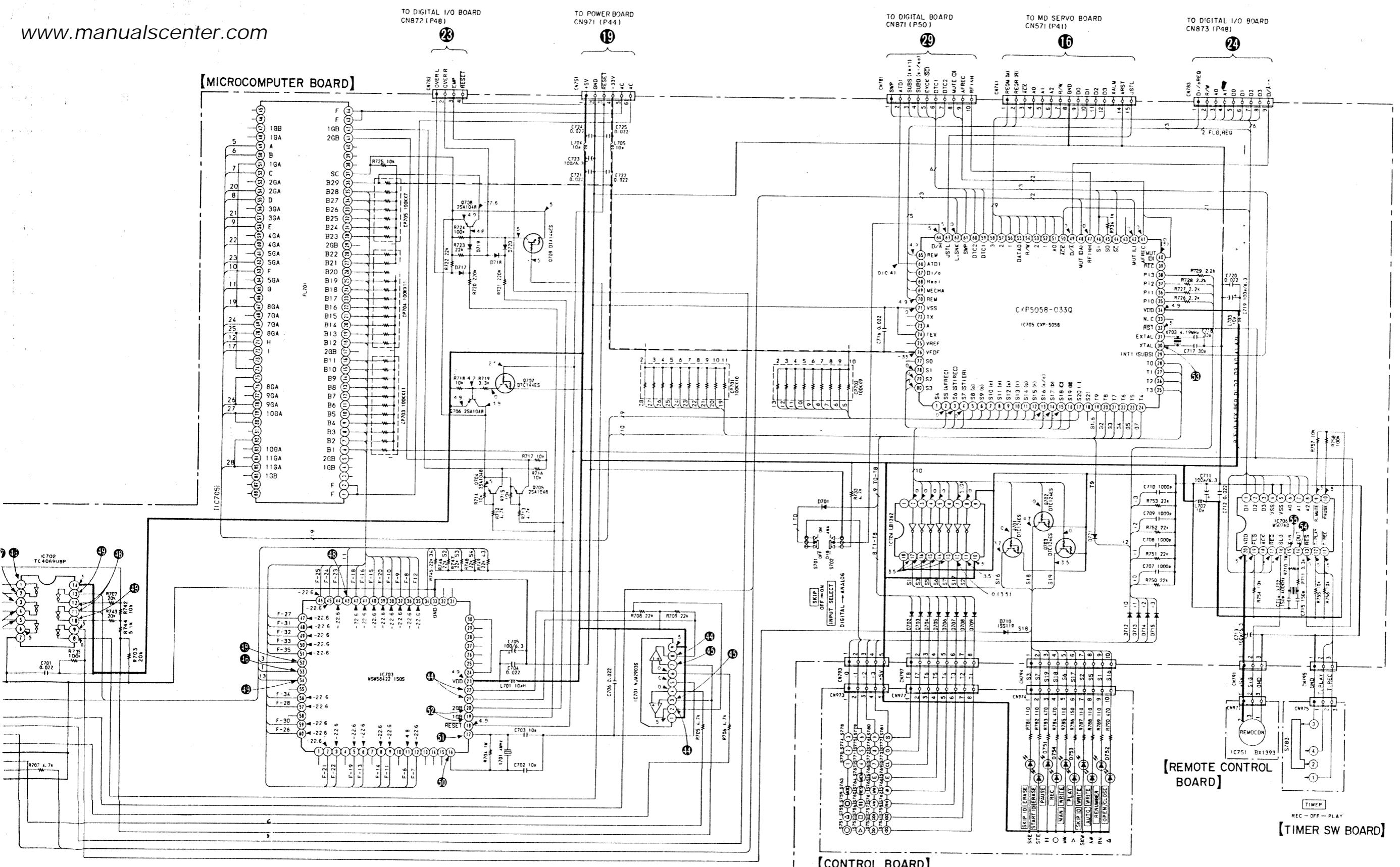
F

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www.manualscenter.com

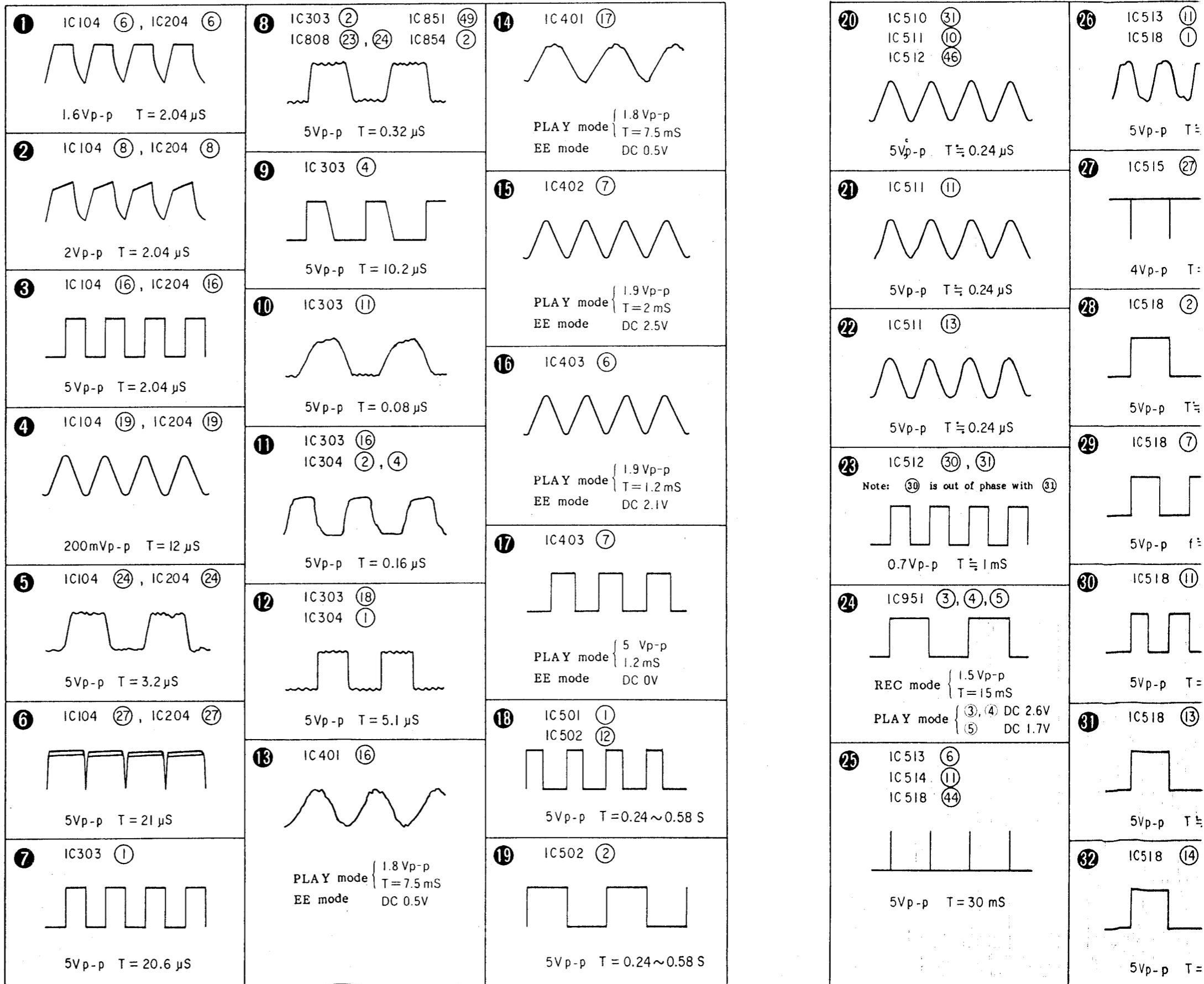


[CONTROL BOARD]

[REMOTE CONTROL BOARD]

[TIMER SW BOARD]

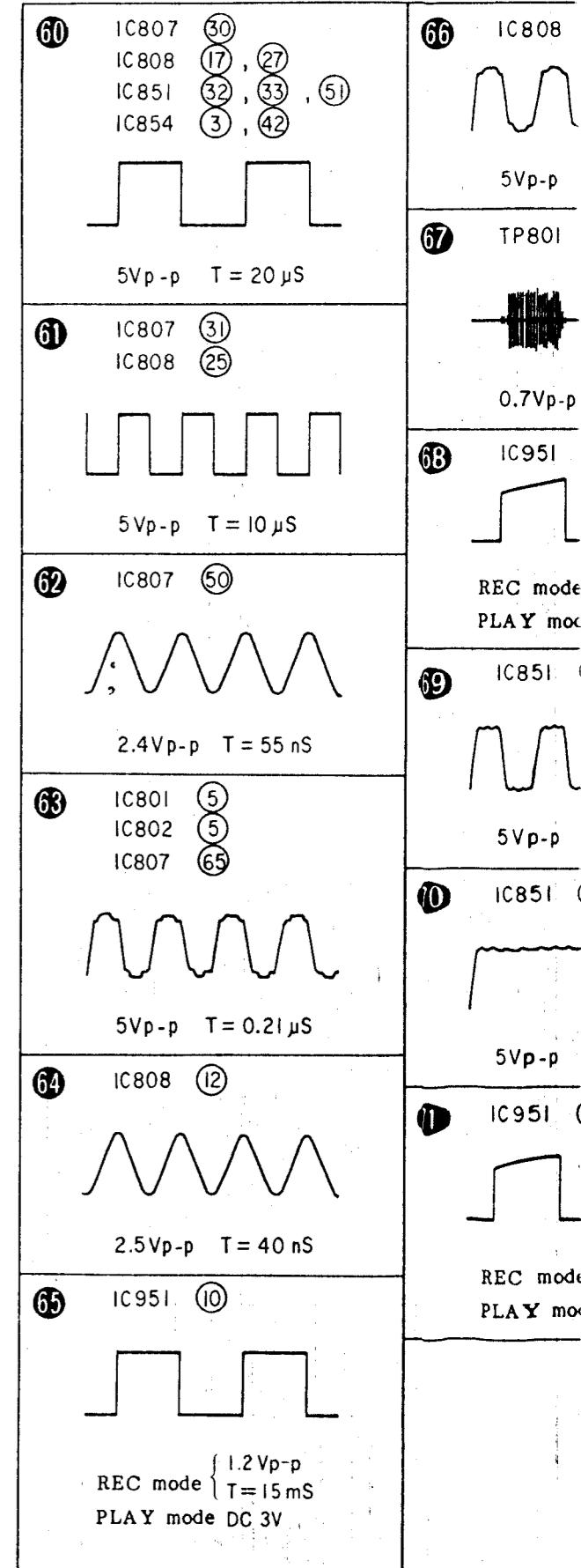
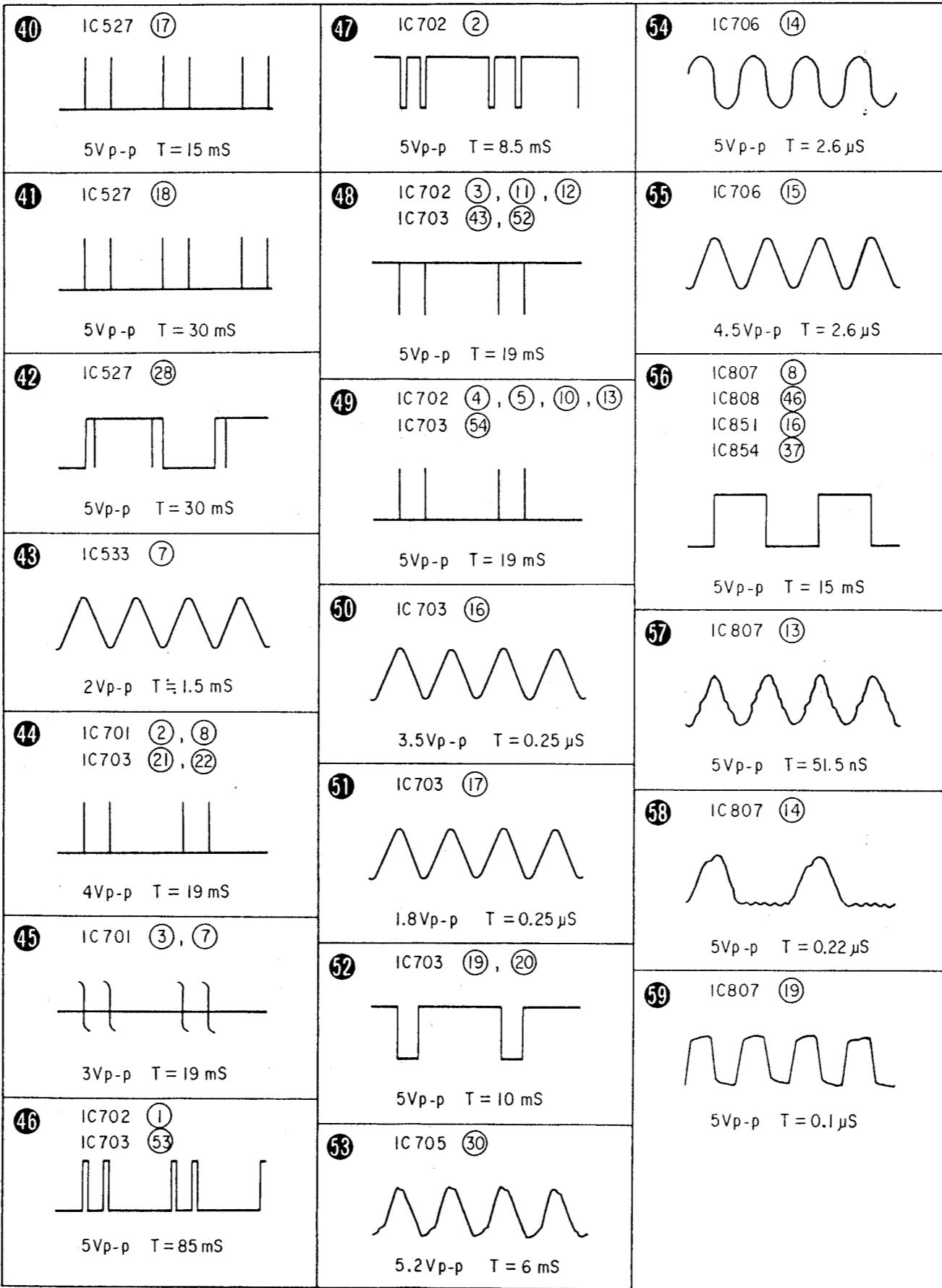
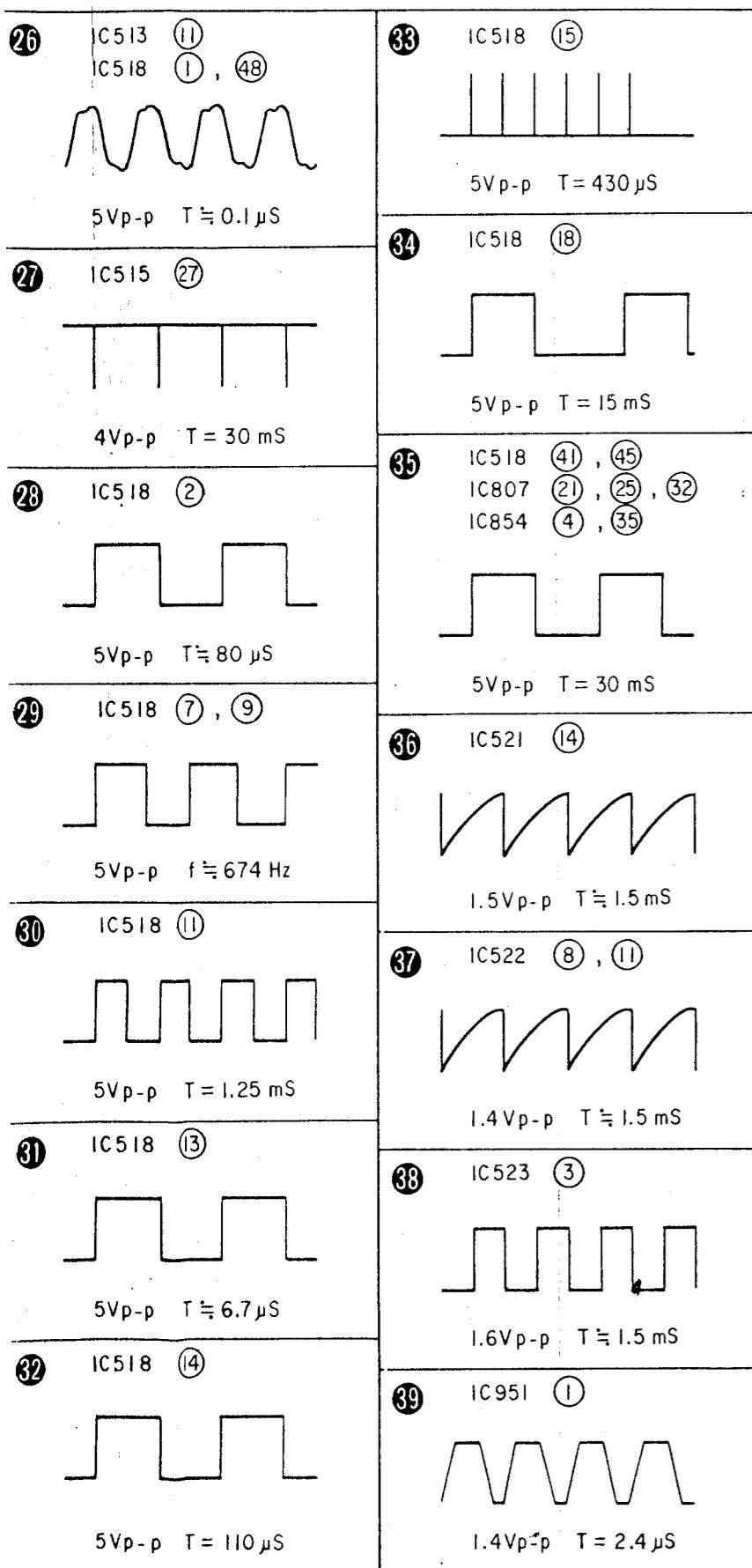
Waveform List

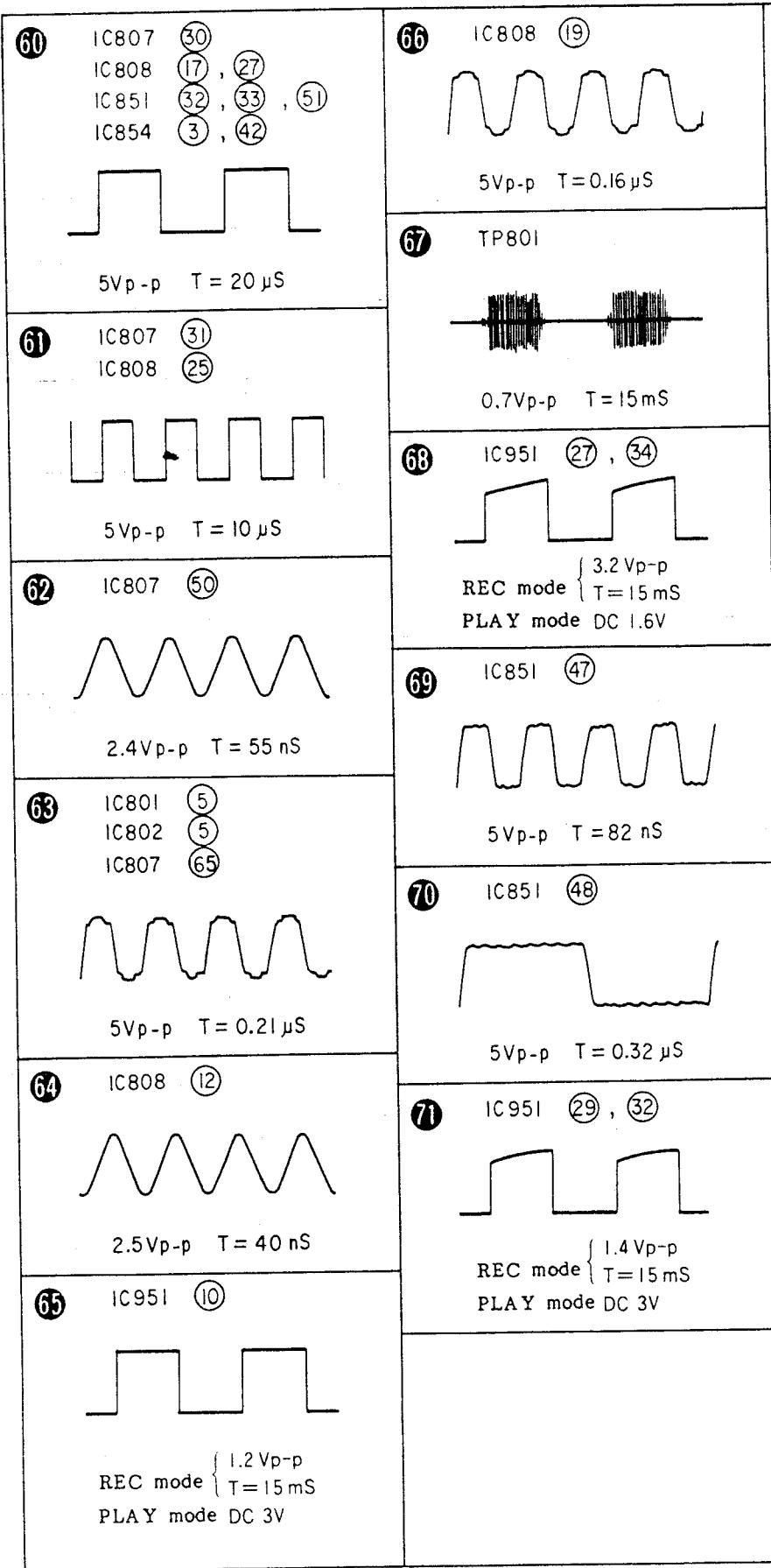


DTC-1000ES

DTC-1000ES

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Semiconductor Lead Layouts

2SA812 DTC144EK	2SA1385 2S31040A 2SD1221	BX1393	CX20018 CX23014 TDA1541	LB1640N	M50760-428P	μPC324G2	FC53M	1S2837
2SA985A 2SB1015 2SB1094 2SB1094-L 2SC2275-P	2SB731	CXA1046M	CX20084 TC4051BP	LF535N/GLEA312 M5238P NJM4560-D-D TL072ACP μ PC358C μ PC393C μ PC4557C μ PC4558C	M5F7905	μPC393G2	HZ2CLL HZ5BLL HZ9B2L 1SS132 1S1555 10E2 10E2N 10YD1.3A	30DF1-FC
2SA995 2SC2291	2SC634SP 2SC3399 2SC3400	CXD1009Q CXP5058	CX20174	NJM2903S	MB3763PS	7805	SLR-34DU5 SLR-34PC5	TLR123
2SA1015 2SC945-P 2SC1387 2SC2001	2SC2259	CXD1008Q CXD1111Q	CX23065	SAA7220P	TLC272P	RBV-602-01	THS105	1SS119
2SA1138 2SC2676	2SK152-2	CXD1052Q CX1045Q	HD14538BP NJU8001D TC4053BP TC74HC163P TC74HC175P	MC74HC132N SN74LS624N SN74LS74N TC4066BP TC4069UBP TC74HCU04P TC74HC00P TC74HC04P TC74HC86P μ PC324C μ PC339C	TMP47C460AF	MSM58422-15GS	1-3 Input 2-4 Output	
2SA1175	FMW2	CXD1110Q	LB1262 MB81416-10P	55	TMP47C800N			

SECTION 6
EXPLODED VIEWS AND PARTS LIST

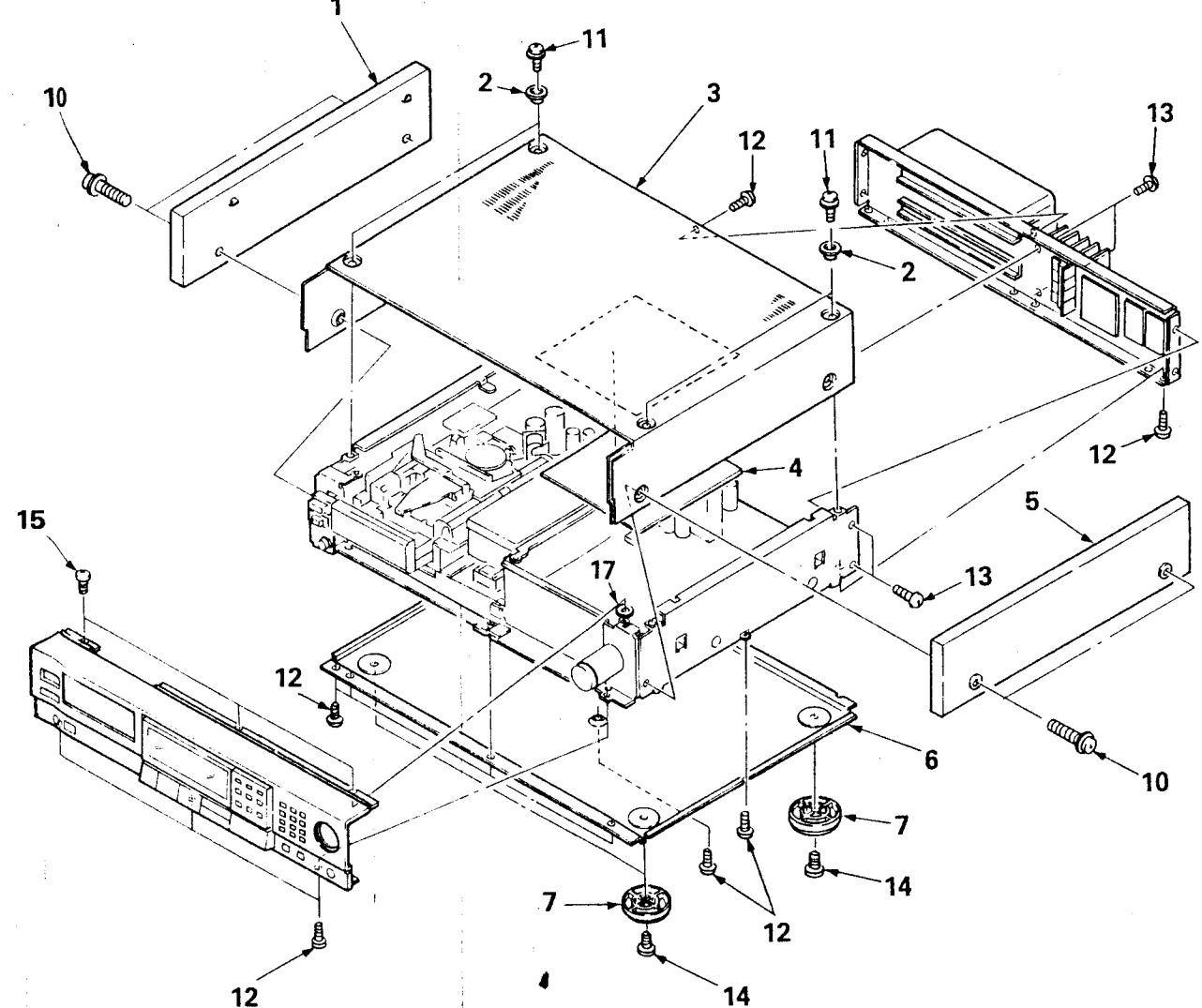
NOTE:
The mechanical parts with no reference number in the exploded views are not supplied.

Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

The construction parts of an assembled part are indicated with a collation number in the remark column.

The components identified by shading and mark Δ are critical for safety. Replace only with part number specified.

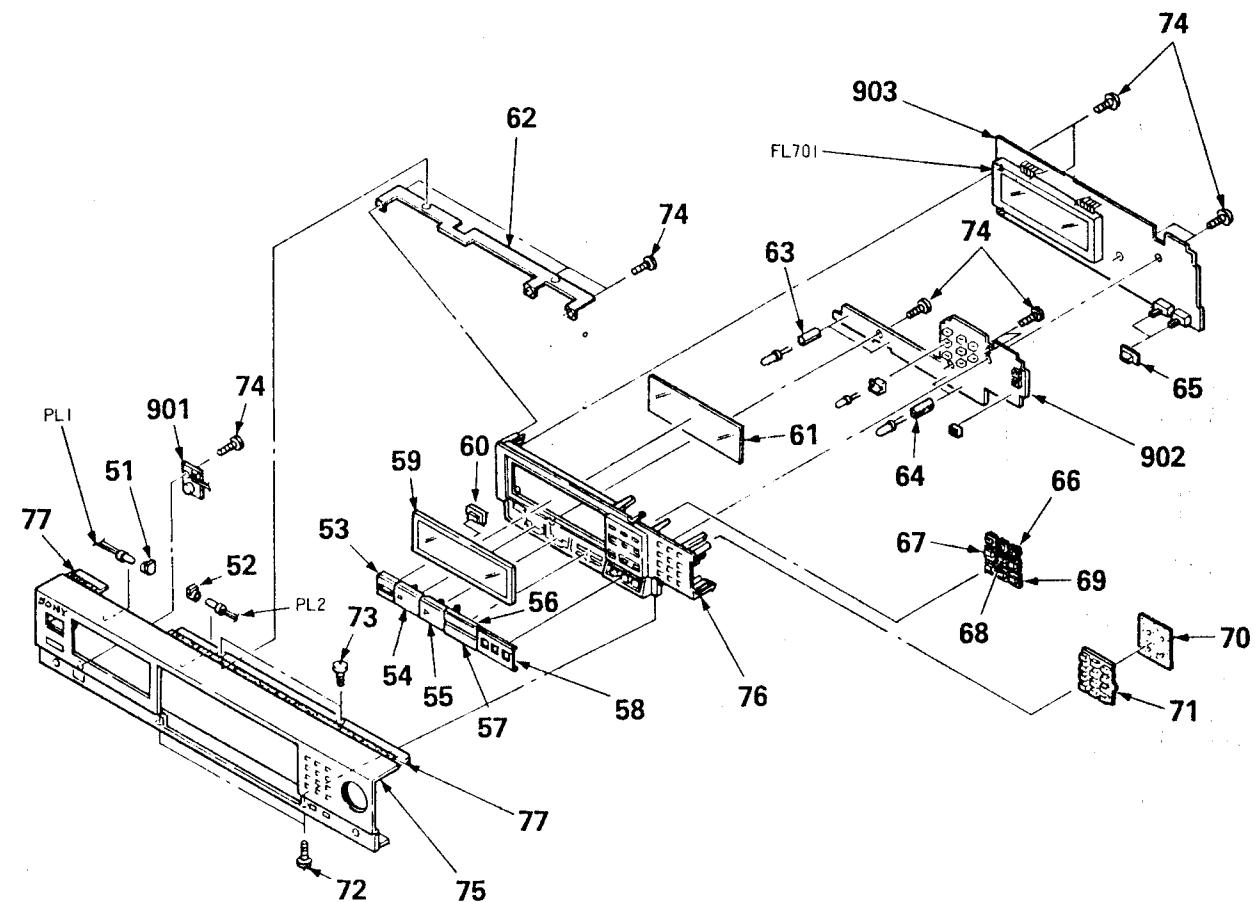
Outer Casing Block



No.	Part No.	Description	Remarks
1	X-4918-929-1	PLATE (LEFT) ASSY, SIDE	
2	3-576-298-11	ESCUOTHEON	
3	4-919-037-11	CASE	
4	*4-919-043-01	DUMPER (A)	
5	X-4918-930-01	PLATE (RIGHT) ASSY, SIDE	
6	*4-919-036-01	PLATE, BOTTOM	
7	X-4918-919-1	LEG ASSY	

No.	Part No.	Description	Remarks
10	4-919-060-01	SCREW (M4X20), RING (+)	
11	7-682-547-09	SCREW, FLAT WASHER (+B)(3X6)	
12	7-682-547-09	SCREW +BV 3X6, S TIGHT	
13	3-703-685-21	SCREW (+BV 3X8)	
14	7-682-561-09	SCREW +B 4X8	
15	7-621-775-20	SCREW +B 2.6X5	
17	*3-311-623-31	SPACER	

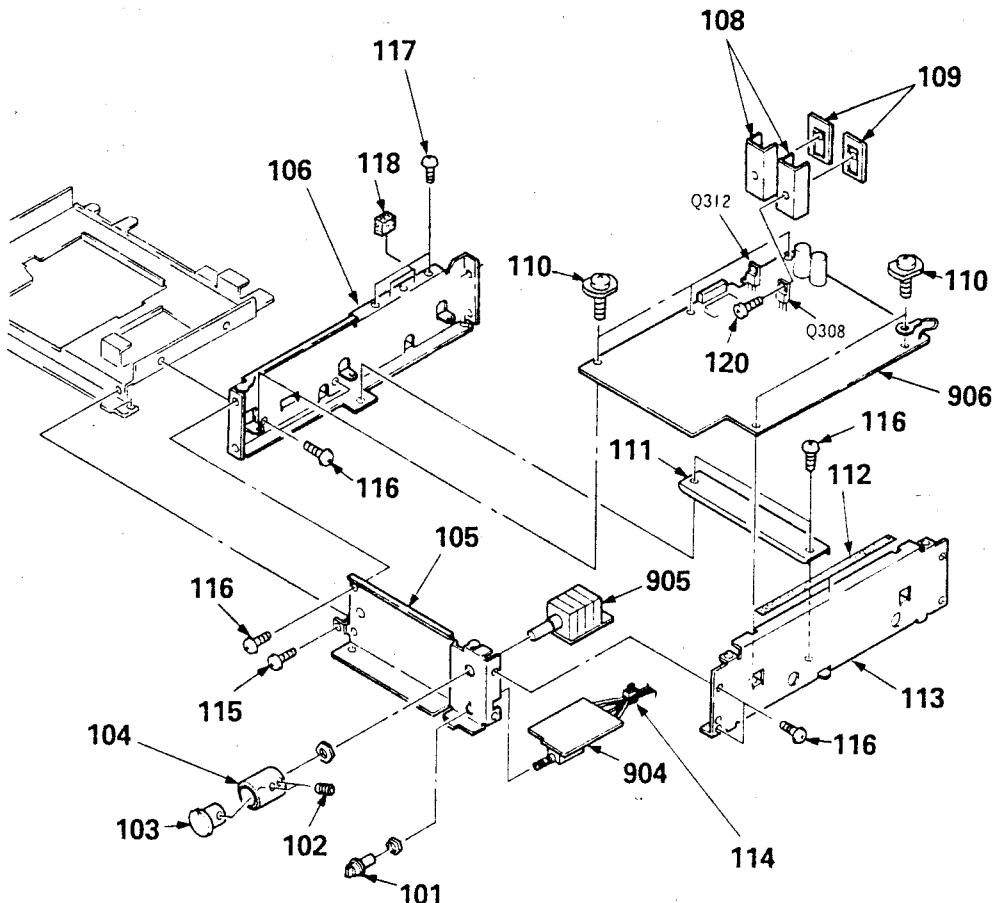
Front Panel Block



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No.	Part No.	Description	Remarks	No.	Part No.	Description	Remarks
51	*4-918-989-01	COVER (LEFT), LAMP		67	4-918-975-01	BUTTON, ID	
52	*4-918-990-01	COVER (RIGHT), LAMP		68	4-918-975-11	BUTTON, ID	
53	X-4918-916-1	BASE ASSY, EJECT		69	4-918-975-21	BUTTON, ID	
54	X-4918-907-1	BUTTON ASSY, STOP		70	*4-918-982-01	CUSHION, TEN KEY	
55	X-4918-906-1	BUTTON ASSY, FWD		71	4-918-998-01	KEY, TEN	
56	X-4918-908-1	BUTTON ASSY, AMS		72	7-685-534-19	SCREW +BTP 2.6X8 TYPE2 N-S	
57	X-4918-909-1	BUTTON ASSY, FR		73	7-621-775-10	SCREW +B 2.6X4	
58	X-4918-915-1	BASE ASSY, REC		74	7-685-531-19	SCREW +BTP 2.6X4 TYPE2 N-S	
59	4-918-927-01	GLASS, WINDOW, METER		75	X-4918-933-1	PANEL ASSY, FRONT	
60	*4-918-928-01	PLATE, INDICATION, EJECT		76	X-4918-934-1	ESCUOTHEON ASSY, METER	
61	4-918-981-01	FILTER, FL TUBE		77	3-831-441-XX	CUSHION (B), CABINET	
62	*4-919-015-01	BRACKET, METER		901	*1-621-617-11	PC BOARD, REMOTE CONTROL	
63	*4-911-676-01	SPACER, LED		902	*1-621-615-11	PC BOARD, CONTROL	
64	*4-911-676-21	SPACER, LED		903	*A-2019-199-A	MOUNTED PCB, MICRO COMPUTER	
65	4-918-972-01	KNOB, SLIDE SW		PL1	1-518-614-11	LAMP, PILOT	
66	4-918-924-01	BUTTON, COUNTER		PL2	1-518-614-11	LAMP, PILOT	

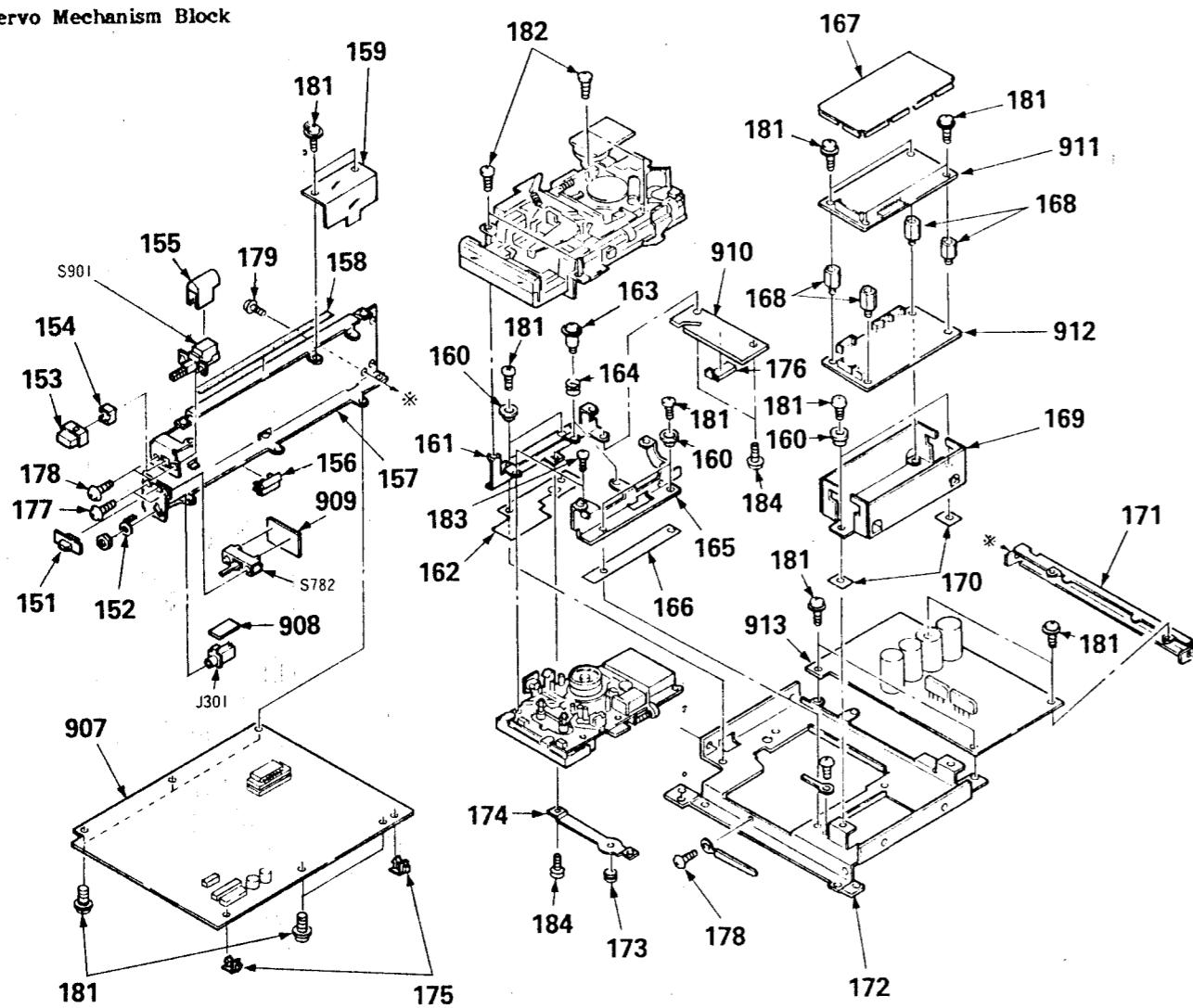
Audio Block



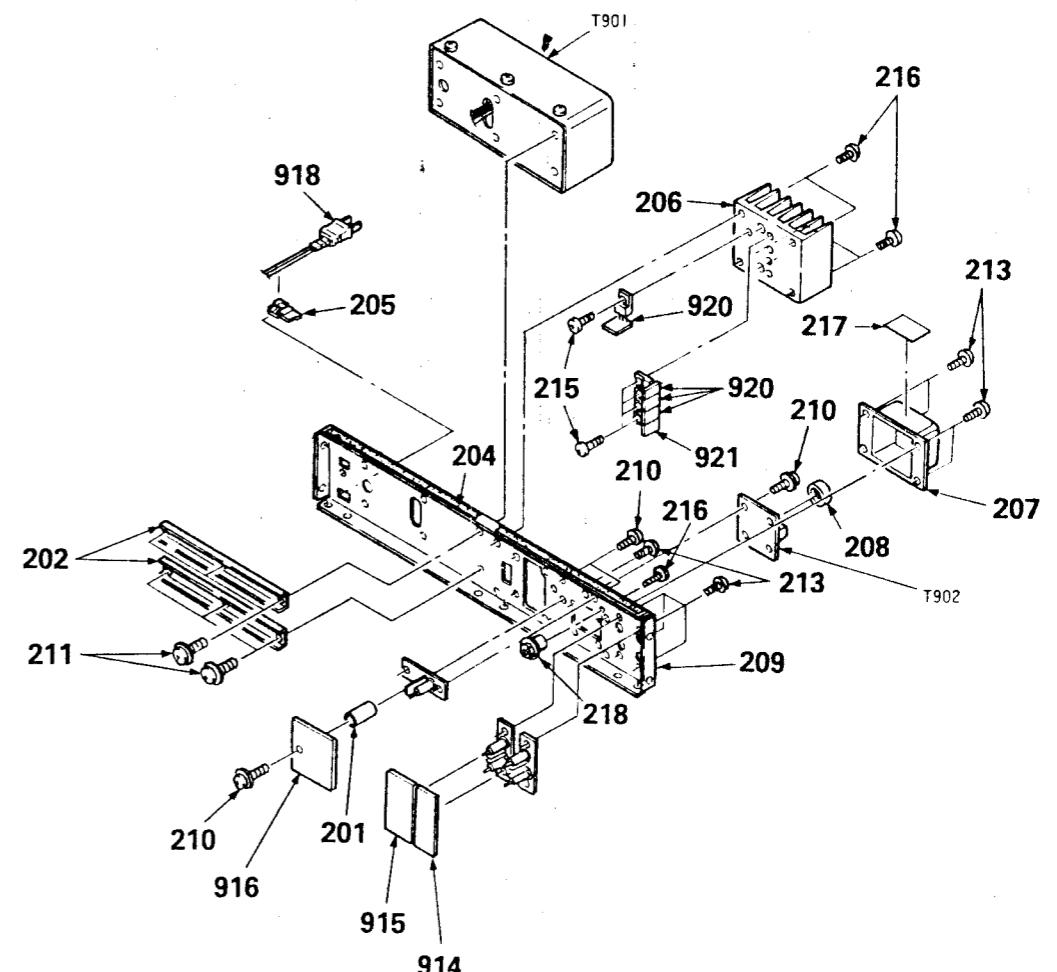
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No.	Part No.	Description	Remarks	No.	Part No.	Description	Remarks
101	4-918-936-01	KNOB, HEADPHONE		112	3-831-441-XX	SPACER (B)	
102	3-701-505-00	SET SCREW, DOUBLE POINT 3X3		113	*4-919-026-01	PLATE (R), SIDE	
103	4-918-994-01	KNOB (RIGHT), REC		114	3-701-748-00	CLAMP	
104	4-918-943-01	KNOB (LEFT), REC		115	4-886-821-11	SCREW, S TIGHT, +PTTWH 3X6	
105	*4-919-017-01	CHASSIS, FRONT		116	3-703-685-21	SCREW (+BV 3X8)	
106	*4-919-027-01	PLATE (C), SIDE		117	7-685-871-01	SCREW +BVTT 3X6 (S)	
108	*4-908-954-01	HEAT SINK, TR		118	*4-911-608-01	CUSHION, RUBBER	
109	4-887-707-00	RETAINER, TRANSFORMER		120	7-682-147-15	SCREW, TR	
110	X-4908-910-1	SCREW ASSY (+ BVTT)		904	*1-621-610-11	PC BOARD, HEADPHONE AMPLIFIER	
111	*4-919-011-01	PLATE, RELAY		905	*1-621-609-11	PC BOARD, REC VOLUME	
				906	A-2010-245-A	MOUNTED PCB, ANALOGUE	

Servo Mechanism Block



Rear Panel Block



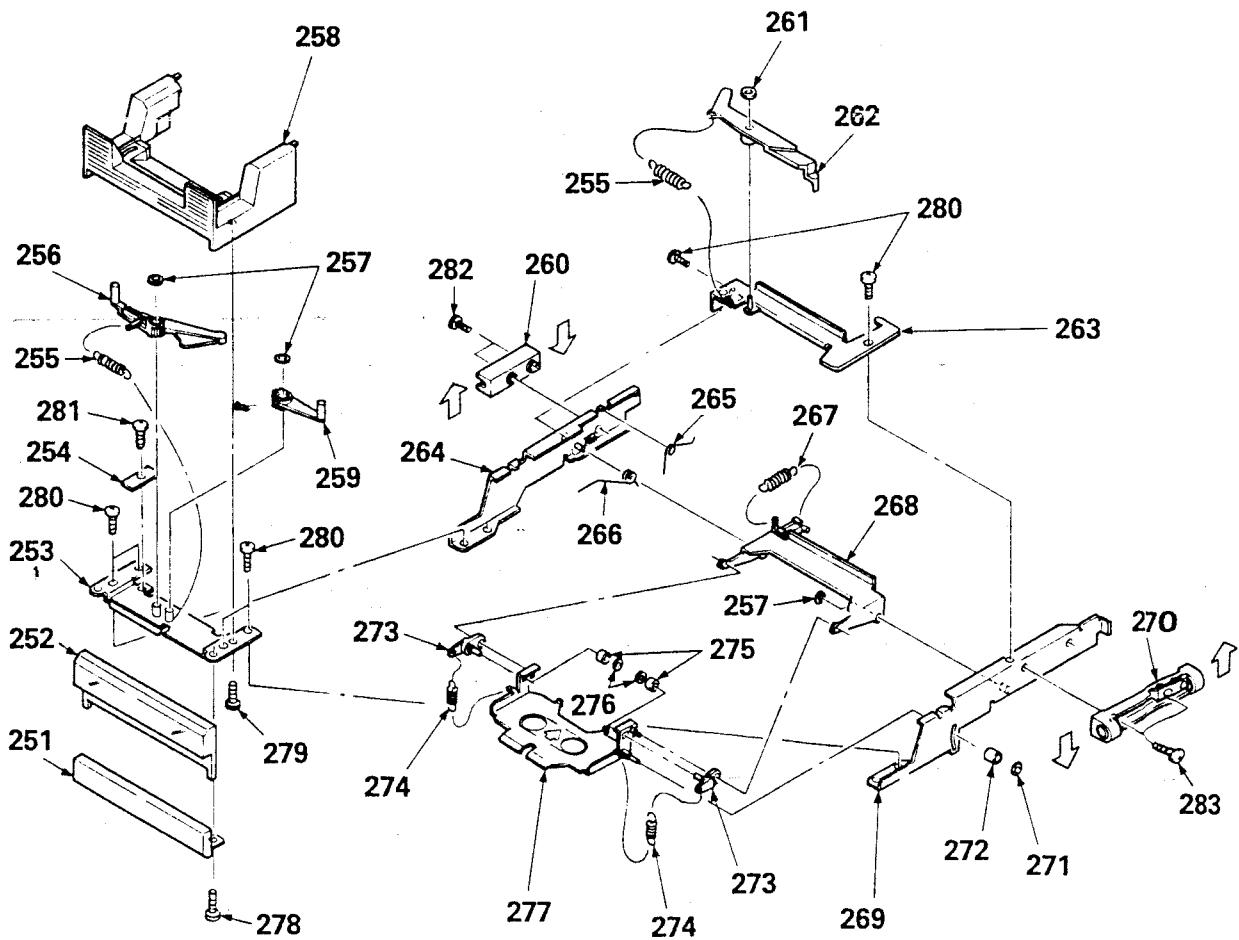
No.	Part No.	Description	Remarks
151	4-918-937-01	KNOB, TIMER SW	
152	*4-919-065-01	LUG, JACK	
153	4-908-046-01	KNOB, SQUARE	
154	*4-864-307-00	RING	
155	3-575-524-00	COVER, POWER SWITCH	
156	*4-919-020-01	SUPPORT (B), PC BOARD	
157	*4-919-029-01	PLATE (L), SIDE	
158	3-831-441-XX	SPACER (B)	
159	*4-919-041-01	COVER, INSULATING	
160	*4-919-042-01	SPACER	
161	*4-919-012-01	BRACKET (LEFT), MD	
162	*4-919-038-01	SHIELD (A), INSULATING	
163	4-918-991-01	SCREW, STEP	
164	3-564-121-00	SPRING, COMPRESSION	
165	*4-919-013-01	BRACKET (RIGHT), MD	
166	*4-919-039-01	SHIELD (B), INSULATING	
167	*4-919-009-01	COVER, DIGITAL SHIELD	
168	*2-375-791-01	SUPPORT	
169	*4-919-010-01	CASE, SHIELD, DIGITAL	
170	*4-919-040-01	SHIELD (C), INSULATING	
171	*4-919-018-01	BRACKET, PC BOARD	
172	*4-919-028-01	CHASSIS, MD FITTING	

No.	Part No.	Description	Remarks
173	3-489-073-00	SCREW, THRUST	
174	*4-918-983-01	SUPPORT	
175	*3-701-832-00	HINGE, CIRCUIT BOARD	
176	*4-918-985-01	HEAT SINK (B)	
177	7-621-775-10	SCREW +B 2.6X4	
178	7-685-871-01	SCREW +BVTT 3X6 (S)	
179	3-703-685-21	SCREW (+BV 3X8)	
181	4-886-821-11	SCREW, S TIGHT, +PTTWH 3X6	
182	7-621-770-87	SCREW +B 2.6X5	
183	7-621-772-18	SCREW +B 2X4	
184	7-621-775-20	SCREW +B 2.6X5	
907	A-2020-081-A	MOONED PCB, MD SERVO	
908	*1-621-611-11	PC BOARD, HEADPHONE	
909	*1-621-616-11	PC BOARD, TIMER	
910	A-2095-597-A	MOONED PCB, DRUM DRIVE	
911	A-2097-007-A	MOONED PCB, DIGITAL	
912	A-2097-006-A	MOONED PCB, DIGITAL I/O	
913	*A-2012-126-A	MOONED PCB, POWER	
918	AT-558-566-21	CORD, POWER	
J301	1-507-796-21	JACK	
S782	1-553-206-00	SWITCH, SLIDE (TIMER)	
S901	1-553-318-00	SWITCH, PUSH (POWER)	

The components identified by shading and mark are critical for safety. Replace only with part number specified.

No.	Part No.	Description	Remarks	No.	Part No.	Description	Remarks
201	2-066-111-08	STUD		215	7-682-547-09	SCREW +B 3X6	
202	*4-918-987-01	REINFORCEMENT		216	7-685-873-04	SCREW +BVTT 3X10 (S)	
204	3-831-441-XX	SPACER (B)		217	4-919-068-11	(AEP)...LABEL, MODEL NUMBER	
205	*3-703-244-00	BUSHING (2104), CORD		217	*4-919-069-11	(UK)...LABEL, MODEL NUMBER	
206	*4-919-021-01	HEAT SINK		218	4-859-606-01	NUT, FLANGE (M3)	
207	*4-918-979-01	CASE, DIGITAL OUT		914	*1-621-608-11	PC BOARD, LINE IN	
208	4-908-991-01	ESCUCHON (OUT)		915	*1-621-613-11	PC BOARD, LINE OUT	
209	*4-919-030-11	PLATE, JACK		916	*1-621-306-11	PC BOARD, DIGITAL I/O SUB	
210	4-886-821-11	SCREW, S TIGHT, +PTTWH 3X6		920	*1-621-618-11	PC BOARD, TRANSISTOR	
211	7-682-961-01	SCREW +PSW 4X8		921	*1-621-619-11	PC BOARD, TRANSISTOR	
213	7-682-547-09	SCREW +BV 3X6, S TIGHT		T901	1-449-018-11	TRANSFORMER, POWER	
214	7-685-531-19	SCREW +BTP 2.6X4 TYPE2 N-S		T902	1-464-763-11	COIL UNIT, DIGITAL I/O	

Cassette Table Block (1)



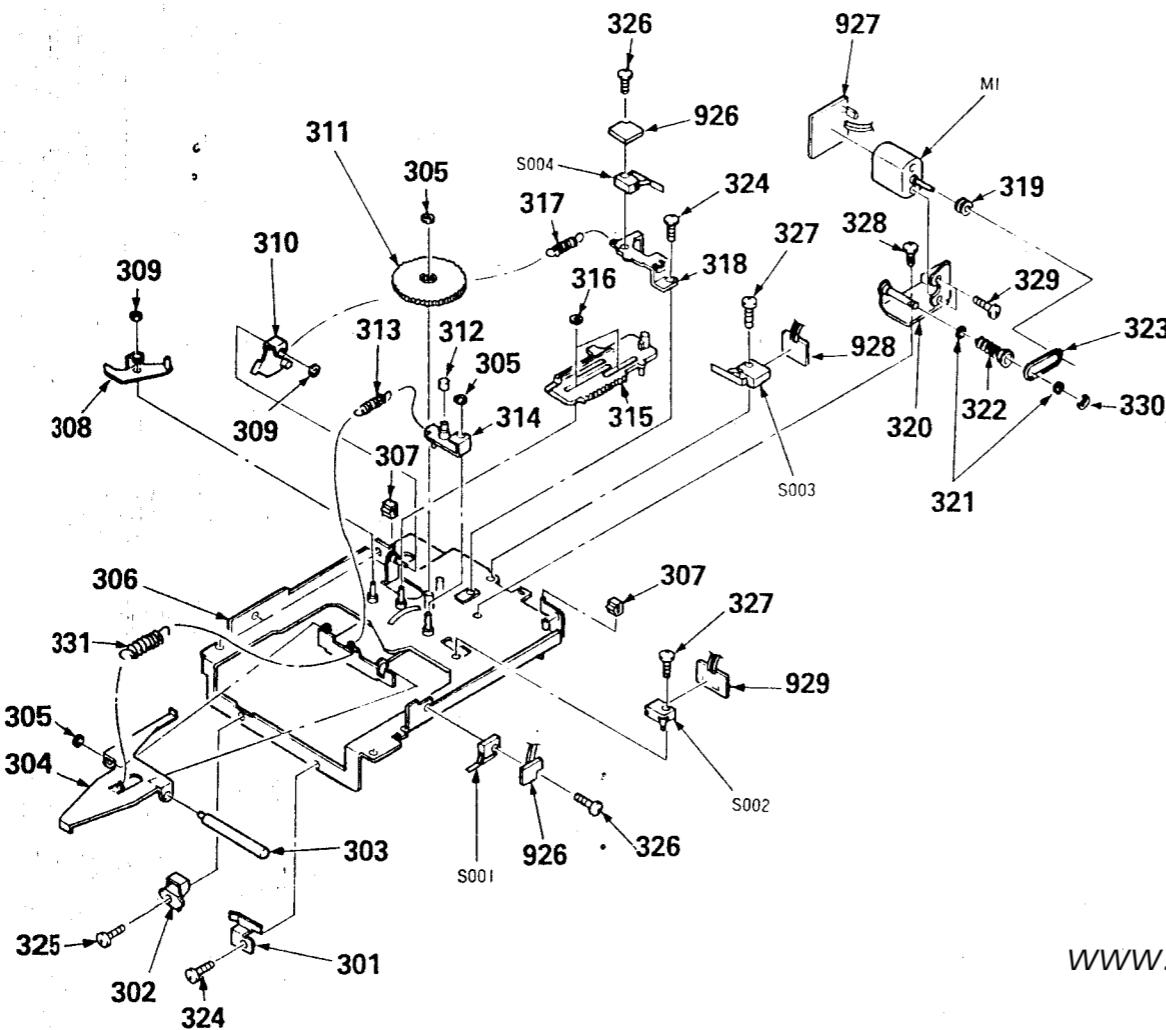
Notes: Attach 260 to 264 and 210 to 269 as follows:

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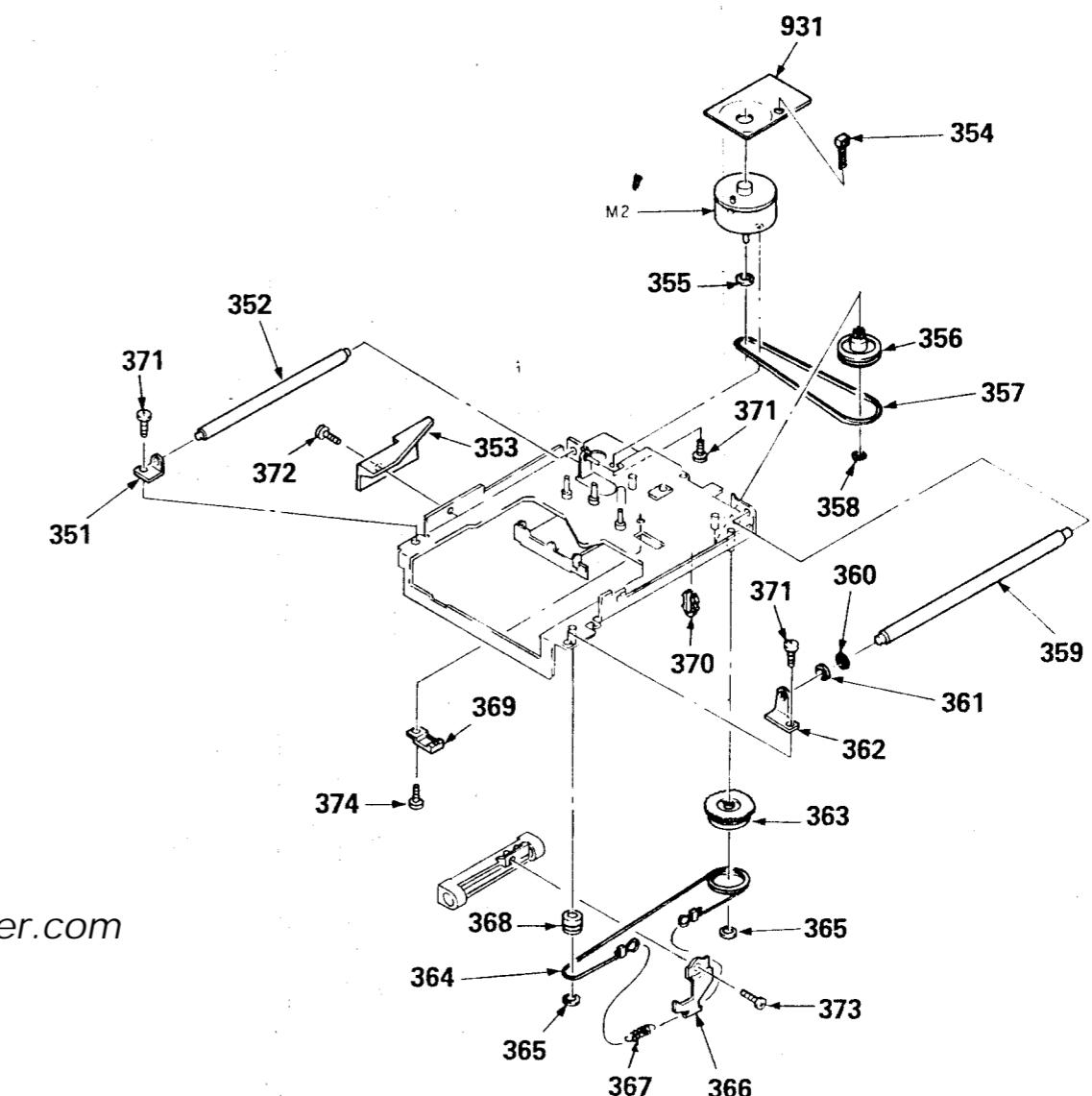
- Tighten the screws with the play removed (counterclockwise).
- When the screws are not tightened as described above, a play occurs in the tray spring.

No.	Part No.	Description	Remarks	No.	Part No.	Description	Remarks
251	4-918-921-01	PANEL, TRAY		268	*X-4918-922-1	ARM ASSY	
252	4-918-922-01	WINDOW, TRAY		269	*X-4918-927-1	PLATE (RIGHT) ASSY, SIDE	
253	*X-4918-924-1	JOINT (REAR) ASSY		270	4-912-538-01	BEARING (RIGHT), GUIDE	
254	*4-918-974-01	SLIDE BLOCK		271	3-315-414-00	WASHER	
255	3-489-310-XX	SPRING, TENSION		272	*4-918-977-01	ROLLER, STABILITY	
256	4-919-004-01	LEVER (LEFT)		273	*4-918-945-01	LEVER, PRESS	
257	3-307-948-31	WASHER, NYLON		274	3-570-587-00	SPRING, TENSION	
258	*4-919-035-01	TRAY		275	4-918-946-01	ROLLER, PRESS	
259	4-919-003-01	LEVER (RIGHT)		276	3-701-436-11	WASHER, STOPPER	
260	*4-919-016-01	BEARING, SLIDER		277	*X-4918-925-1	HOLDER ASSY, CASSETTE	
261	3-307-948-21	WASHER, NYLON		278	7-621-773-86	SCREW +B 2.6X4	
262	4-919-007-01	LEVER, PUSH-OUT		279	7-685-534-19	SCREW +BTP 2.6X8 TYPE2 N-S	
263	*X-4918-923-1	JOINT (FRONT) ASSY		280	7-621-775-00	SCREW +B 2.6X3	
264	*X-4918-926-1	PLATE (LEFT) ASSY, SIDE		281	7-621-772-00	SCREW +B 2X3	
265	4-918-962-01	SPRING		282	7-621-775-20	SCREW +B 2.6X5	
266	4-918-971-01	SPRING		283	7-682-146-01	SCREW +P 3X5	
267	4-919-047-01	SPRING					

Cassette Table Block (2)



Cassette Table Block (3)

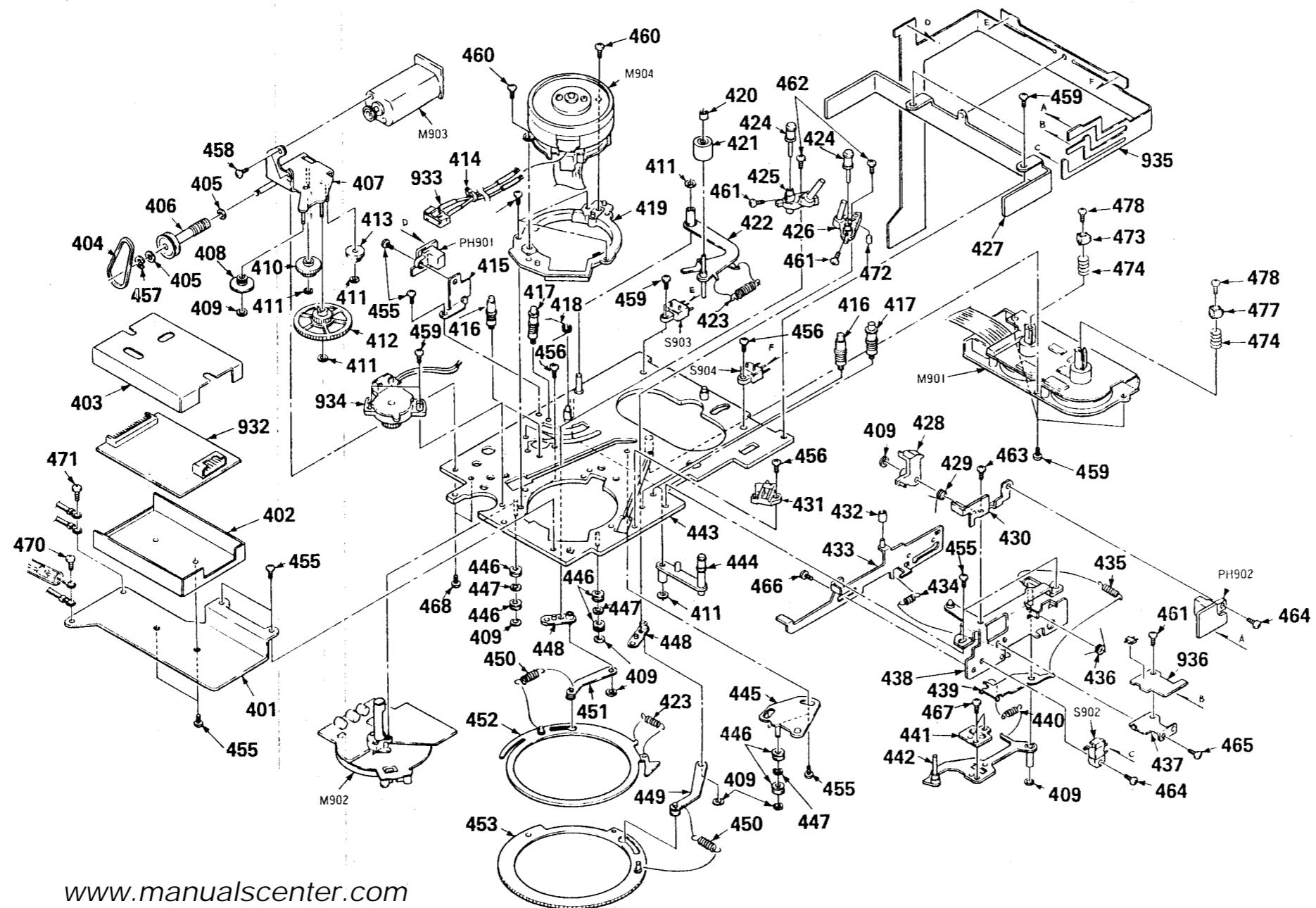


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No.	Part No.	Description	Remarks	No.	Part No.	Description	Remarks
301	*4-918-952-01	PLATE (C), AGAINST HOUSING, POSITIONING		321	3-701-438-21	WASHER	
302	*4-918-978-01			322	4-918-954-01	WORM	
303	*4-918-942-01	SHAFT, PULL LEVER		323	4-918-923-01	BELT, UD MOTOR	
304	*4-918-999-01	LEVER, PULL		324	7-621-259-10	SCREW +P 2.6X3	
305	3-701-436-11	WASHER, STOPPER		325	7-621-775-00	SCREW +B 2.6X3	
306	*X-4918-932-1	CHASSIS ASSY		326	7-621-255-40	SCREW +P 2X6	
307	4-887-175-00	RUBBER, STOPPER		327	7-621-255-55	SCREW +P 2X8	
308	*X-4918-905-1	ARM ASSY, TRAY LOCK		328	7-628-253-90	SCREW +PS 2.6X4	
309	3-307-948-31	WASHER, NYLON		329	7-627-852-37	PRECISION SCREW +P1.7X1.8 TYPE3	
310	*X-4918-901-1	PLATE ASSY, FUNCTION		330	7-624-104-04	STOP RING 2.0, TYPE -E	
311	4-919-008-01	GEAR, UD		331	3-701-788-XX	SPRING, TENSION	
312	*4-918-913-01	ROLLER, CAM		926	*1-621-623-11	PC BOARD	
313	3-578-387-00	SPRING, TENSION		927	*1-621-625-11	PC BOARD, UD MOTOR	
314	*X-4918-902-1	LEVER ASSY, CAM		928	*1-621-626-11	PC BOARD	
315	*4-919-002-01	SLIDER, UD		929	*1-621-624-11	PC BOARD	
316	3-307-948-21	WASHER, NYLON		M1	1-541-445-11	MOTOR	
317	3-567-028-00	SPRING, TENSION		S001	1-570-975-11	SWITCH, SLIDE (OUT)	
318	*4-918-961-01	BRACKET, SW		S002	1-570-972-11	SWITCH (IN)	
319	4-918-970-01	PULLEY, MOTOR		S003	1-570-973-11	SWITCH (UP)	
320	*X-4918-921-1	BRACKET ASSY, MOTOR		S004	1-570-975-11	SWITCH, SLIDE (DOWN (IN))	

No.	Part No.	Description	Remarks	No.	Part No.	Description	Remarks
351	*4-918-947-01	PLATE (L), AGAINST		355	3-554-222-00	WASHER (2), CAPSTAN	
352	*4-918-959-01	SHAFT (L), SLIDE		356	4-918-901-01	PULLEY (2)	
353	*4-919-006-01	GUIDE		357	4-918-963-01	BELT, SLIDE MOTOR	
354	3-701-748-00	CLAMP		358	3-701-436-11	WASHER, STOPPER	
355	3-554-222-00	WASHER (2), CAPSTAN		368	4-918-907-01	PULLEY	
356	4-918-901-01	PULLEY (2)		369	*4-918-984-01	STOPPER, WIRE	
357	4-918-963-01	BELT, SLIDE MOTOR		370	*3-660-815-00	CLIP, CABLE	
358	3-701-436-11	WASHER, STOPPER		371	7-621-775-00	SCREW +B 2.6X3	
359	*4-918-914-01	SHAFT (RIGHT), SLIDE		372	7-621-775-08	SCREW +B 2.6X3	
360	*4-918-980-01	CUSHION		373	7-685-531-19	SCREW +BTP 2.6X4 TYPE2 N-S	
361	4-908-550-01	STOPPER, RUBBER		374	7-621-772-08	SCREW +B 2X3	
362	*4-918-951-01	PLATE (R), AGAINST		375	*1-621-622-11	PC BOARD	
363	4-918-906-01	GEAR, WIRE		M2	A-608-303-A	MOTOR ASSY, LOADING	

DTC-1000ES DTC-1000ES

Mechanism Assembly


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No.	Part No.	Description	Remarks
401	*3-337-666-01	BRACKET, RF	
402	*3-337-686-01	CASE (LOWER), SHIELD	
403	*3-337-682-01	CASE (UPPER), SHIELD	
404	3-337-652-01	BELT, CONTROL	
405	3-701-437-21	WASHER	
406	3-337-650-01	GEAR, WORM	
407	*X-3337-617-1	BRACKET ASSY, CONTROL MOTOR	
408	3-337-669-01	GEAR, MIDWAY	
409	3-559-408-11	WASHER, POLYETHYLENE, DIA.1.2	
410	3-337-649-01	WHEEL, WORM	

No.	Part No.	Description	Remarks
411	3-701-436-11	WASHER, STOPPER	
412	3-337-647-01	GEAR (A), LOADING	
413	3-337-648-01	GEAR (B), LOADING	
414	3-701-748-00	CLAMP	
415	*3-337-610-01	BRACKET (RIGHT), E DETECTION	
416	X-3337-623-1	GUIDE (5.0) ASSY, FIXED	
417	X-3337-621-1	GUIDE (4.0) ASSY, FIXED	
418	3-337-654-01	SPRING	
419	*X-3337-614-1	SLANT ASSY	
420	3-337-626-01	CAP, PINCH ROLLER	

No.	Part No.	Description	Remarks
421	X-3337-610-1	PINCH ROLLER ASSY	
422	X-3337-608-1	ARM ASSY, PINCH ROLLER	
423	3-547-659-00	SPRING, TENSION	
424	X-3337-622-1	GUIDE (POM) ASSY, ROLLER	
425	X-3337-616-1	SLANT BLOCK (RIGHT) ASSY	
426	X-3337-615-1	SLANT BLOCK (LEFT) ASSY	
427	*3-337-679-01	HOLDER, PC BOARD	
428	3-337-608-01	OPENER, LID	
429	3-337-607-01	SPRING	
430	*X-3337-612-1	BRACKET (L) ASSY, E DETECTION	

No.	Part No.	Description	Remarks
431	*3-337-685-01	CATCHER	
432	3-337-664-01	ROLLER	
433	X-3337-618-1	SLIDER ASSY, MODE	
434	3-570-892-00	SPRING, TENSION	
435	3-561-626-00	SPRING, TENSION	
436	3-337-673-01	SPRING	
437	*3-337-662-01	BRACKET, HOLE ELEMENT	
438	*X-3337-619-1	CHASSIS ASSY, TENSION REGULATOR	
439	*3-337-657-01	LEVER, LIMITER	
440	3-307-377-00	SPRING, TENSION	
441	X-3337-611-1	HOLDER ASSY, MAGNET	
442	X-3337-609-1	ARM ASSY, TENSION REGULATOR	
443	*X-3337-625-1	CHASSIS ASSY, MECHANICAL	
444	X-3337-613-1	ARM ASSY, F	
445	*X-3337-605-1	ARM ASSY, RING ROLLER	
446	3-337-622-01	ROLLER, RING	
447	3-701-436-11	WASHER, 1.6 POLYETHYLENE	
448	X-3337-604-1	PLATE ASSY, LOADING	
449	*X-3337-607-1	ARM (LEFT) ASSY, LOADING	
450	3-337-653-01	SPRING, TENSION	
451	*X-3337-603-1	ARM (RIGHT) ASSY, LOADING	
452	X-3337-601-1	RING (RIGHT) ASSY, LOADING	
453	X-3337-602-1	RING (LEFT) ASSY, LOADING	
455	7-621-772-08	SCREW +B 2X3	
456	7-627-552-47	SCREW, PRECISION +P 1.7X4	
457	7-624-102-04	STOP RING 1.5, TYPE -E	
458	7-627-553-17	SCREW, PRECISION +P 2X2	
459	7-621-772-18	SCREW +B 2X4	
460	7-621-255-25	SCREW +P 2X4	
461	7-627-551-17	SCREW, PRECISION +P 1.4X2	
462	3-703-502-81	SCREW	
463	7-627-552-18	SCREW, PRECISION +P 1.7X1.6	
464	7-621-772-20	SCREW +B 2X5	
465	7-627-552-27	SCREW, PRECISION +P 1.7X2	
466	3-703-502-11	SCREW	
467	7-627-551-87	PRECISION SCREW +P 1.4X1.8	
468	7-628-253-00	SCREW +PS 2X4	
470	7-621-773-44	SCREW +B 2.6X4	
471	7-621-770-67	SCREW +B 2.6X6	
473	2-623-736-01	REEL (L)	
474	2-623-754-01	SPRING	
477	2-623-752-01	REEL (R)	
478	2-623-756-01	SCREW B1.7X3	
932	*A-2096-052-A	MOUNTED PCB, RF AMPLIFIER	
933	*9-831-249-48	WIRE KIT	
934	1-646-724-11	ENCODER, ROTARY	
935	1-620-725-11	PC BOARD, MD FLEXIBLE	
936	*1-620-186-11	PC BOARD, TENTION LEGULATOR	
M901	8-835-205-01	MOTOR, DC U-2A	
M902	8-835-206-01	MOTOR, DC BHF-2803A	
M903	X-3337-626-1	MOTOR ASSY, L	
M904	8-848-500-01	DRUM ASSY DOH-01A	
PH901	1-807-698-11	PHOTO SENSOR	
PH902	1-807-698-11	PHOTO SENSOR	
S902	1-570-771-11	SWITCH LIMIT	
S903	1-570-883-11	SWITCH, PUSH (2 KEY) CASSETTE DETECT A	
S904	1-570-883-21	SWITCH, PUSH (2 KEY) CASSETTE DETECT B	

SECTION 7

ELECTRICAL PARTS LIST

NOTE:

- Items marked "★" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- If there are two or more same circuits in a set such as a stereophonic machine, only typical circuit parts may be indicated and capacitors and resistors in other same circuits may be omitted.

CAPACITORS:

MF: μ F, PF: $\mu\mu$ F.

RESISTORS

- All resistors are in ohms.
- F : nonflammable

COILS

MMH : mH, UH : μ H

SEMICONDUCTORS

In each case, U : μ , for example:
 UA... : μ A..., UPA... : μ PA..., UPC... : μ PC,
 UPD... : μ PD...

The components identified by shading and mark are critical for safety.
 Replace only with part number specified.

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<u>ELECTRICAL PARTS</u>			<u>ELECTRICAL PARTS</u>					
<u>Ref.No.</u>	<u>Part No.</u>	<u>Description</u>	<u>Ref.No.</u>	<u>Part No.</u>	<u>Description</u>	Value	Tolerance	Voltage
901	*1-621-617-11	PC BOARD, REMOTE CONTROL	C109	1-123-343-00	ELECT	33MF	20%	25V
902	*1-621-615-11	PC BOARD, CONTROL	C110	1-123-343-00	ELECT	33MF	20%	25V
903	*A-2019-199-A	MOUNTED PCB, MICRO COMPUTER	C111	1-104-240-00	POLYSTYRENE	0.001MF	5%	125V
904	*1-621-610-11	PC BOARD, HEADPHONE AMPLIFIER	C112	1-162-282-31	CERAMIC	100PF	10%	50V
905	*1-621-609-11	PC BOARD, REC VOLUME	C113	1-162-282-31	CERAMIC	100PF	10%	50V
906	A-2010-245-A	MOUNTED PCB, ANALOGUE	C114	1-131-365-00	TANTALUM	10MF	10%	16V
907	A-2020-081-A	MOUNTED PCB, MD SERVO	C116	1-161-379-00	CERAMIC	0.01MF	30%	16V
908	*1-621-611-11	PC BOARD, HEADPHONE	C117	1-162-294-31	CERAMIC	0.001MF	10%	50V
909	*1-621-616-11	PC BOARD, TIMER	C118	1-162-294-31	CERAMIC	0.001MF	10%	50V
910	A-2095-597-A	MOUNTED PCB, DRUM DRIVE	C119	1-162-851-11	CERAMIC	0.1MF	20%	16V
911	A-2097-007-A	MOUNTED PCB, DIGITAL	C120	1-123-330-00	ELECT	22MF	20%	25V
912	A-2097-006-A	MOUNTED PCB, DIGITAL I/O	C121	1-162-851-11	CERAMIC	0.1MF	20%	16V
913	*A-2012-127-A	MOUNTED PCB, POWER	C122	1-123-330-00	ELECT	22MF	20%	25V
914	*1-621-608-11	PC BOARD, LINE IN	C123	1-136-250-11	FILM	0.001MF	3%	100V
915	*1-621-613-11	PC BOARD, LINE OUT	C124	1-130-967-00	FILM	0.0027MF	3%	100V
916	*1-621-606-11	PC BOARD, DIGITAL I/O SUB	C125	1-136-229-11	FILM	0.0016MF	3%	100V
918	A1-555-795-00	(AEP)...CORD, POWER	C126	1-124-275-00	ELECT	2.2MF	20%	35V
919	A1-556-035-11	(UK)....CORD, POWER	C130	1-136-254-11	FILM	0.002MF	3%	100V
920	*1-621-618-11	PC BOARD, TRANSISTOR	C131	1-136-250-11	FILM	0.001MF	3%	100V
921	*1-621-619-11	PC BOARD, TRANSISTOR	C134	1-162-851-11	CERAMIC	0.1MF	20%	16V
922	*1-506-534-11	PIN, CONNECTOR 11P	C135	1-126-164-11	ELECT	100MF	20%	100V
923	*1-535-139-00	BASE POST 19MM (10MM PITCH) 2P	C137	1-124-282-00	ELECT	22MF	20%	25V
924	1-535-416-00	TERMINAL	C138	1-136-167-00	FILM	0.15MF	5%	50V
925	*1-560-242-11	BUS BAR 3P	C139	1-124-279-11	ELECT	3.3MF	20%	25V
926	*1-621-623-11	PC BOARD	C140	1-130-892-00	FILM	0.015MF	3%	100V
927	*1-621-625-11	PC BOARD, UD MOTOR	C199	1-162-111-00	CERAMIC	0.0022MF	30%	25V
928	*1-621-626-11	PC BOARD	C301	1-123-343-00	ELECT	33MF	20%	25V
929	*1-621-624-11	PC BOARD	C302	1-162-851-11	CERAMIC	0.1MF	20%	16V
930	*1-560-242-31	BUS BAR 5P	C303	1-123-333-00	ELECT	100MF	20%	16V
931	*1-621-622-11	PC BOARD	C304	1-123-376-00	ELECT	330MF	20%	63V
932	*A-2096-052-A	MOUNTED PCB, RF AMPLIFIER	C305	1-123-376-00	ELECT	330MF	20%	63V
933	*9-631-249-48	WIRE KIT	C306	1-126-027-11	ELECT	1000MF	20%	25V
934	1-464-724-11	ENCODER, ROTARY	C307	1-162-851-11	CERAMIC	0.1MF	20%	16V
935	1-620-725-11	PC BOARD, MD FLEXIBLE	C312	1-124-995-11	ELECT	220MF	20%	10V
936	*1-620-186-11	PC BOARD, TENTION REGULATOR	C313	1-162-851-11	CERAMIC	0.1MF	20%	16V
937	*1-560-242-41	BUS BAR 11P	C314	1-124-995-11	ELECT	220MF	20%	10V
938	*1-560-242-51	BUS BAR 7P	C315	1-162-851-11	CERAMIC	0.1MF	20%	16V
939	*1-560-242-81	BUS BAR 8P	C318	1-162-851-11	CERAMIC	0.1MF	20%	16V
C001	1-136-165-00	FILM	C319	1-162-851-11	CERAMIC	0.1MF	20%	16V
C002	1-136-165-00	FILM	C320	1-126-027-11	ELECT	1000MF	20%	25V
C003	1-130-475-00	MYLAR	C321	1-162-851-11	CERAMIC	0.1MF	20%	16V
C004	1-130-475-00	MYLAR	C322	1-126-027-11	ELECT	1000MF	20%	25V
C103	1-123-356-00	ELECT	C326	1-107-202-00	MICA	10PF	5%	500V
C104	1-123-356-00	ELECT	C327	1-124-725-00	ELECT	100MF	20%	50V
C106	1-124-614-00	ELECT	C328	1-107-202-00	MICA	10PF	5%	500V
C107	1-123-343-00	ELECT	C329	1-124-725-00	ELECT	100MF	20%	50V
C108	1-123-343-00	ELECT						

DTC-1000ES

ELECTRICAL PARTS

Ref. No.	Part No.	Description					
C879	1-162-851-11	CERAMIC	0.1MF	20%	16V		
C901	1-162-851-11	CERAMIC	0.1MF	20%	16V		
C902	1-124-898-11	ELECT	4700MF	20%	16V		
C903	1-162-851-11	CERAMIC	0.1MF	20%	16V		
C904	1-162-851-11	CERAMIC	0.1MF	20%	16V		
C905	1-124-471-00	ELECT	1000MF	20%	6.3V		
C906	1-124-913-11	ELECT	470MF	20%	50V		
C907	1-124-910-11	ELECT	47MF	20%	35V		
C908	1-124-484-11	ELECT	220MF	20%	35V		
C909	1-124-898-11	ELECT	4700MF	20%	16V		
C910	1-162-851-11	CERAMIC	0.1MF	20%	16V		
C911	1-162-851-11	CERAMIC	0.1MF	20%	16V		
C912	1-124-471-00	ELECT	1000MF	20%	6.3V		
C913	1-162-851-11	CERAMIC	0.1MF	20%	16V		
C914	1-124-468-11	ELECT	100MF	20%	6.3V		
C915	1-124-898-11	ELECT	4700MF	20%	16V		
C916	1-124-471-00	ELECT	1000MF	20%	6.3V		
C917	1-162-294-31	CERAMIC	0.001MF	10%	50V		
C919	1-126-013-11	ELECT	1000MF	20%	16V		
C921	1-162-294-31	CERAMIC	0.001MF	10%	50V		
C923	1-126-013-11	ELECT	1000MF	20%	16V		
C924	1-125-471-11	ELECT(BLOCK)	4700MF	20%	25V		
C925	1-125-471-11	ELECT(BLOCK)	4700MF	20%	25V		
C926	1-124-365-00	ELECT	4700MF	10%	16V		
C927	1-124-365-00	ELECT	4700MF	20%	16V		
C928	1-123-356-00	ELECT	10MF	20%	16V		
C929	1-123-356-00	ELECT	10MF	20%	16V		
C930	1-136-165-00	FILM	0.1MF	5%	50V		
C931	1-162-851-11	CERAMIC	0.1MF	20%	16V		
C941	△1-161-742-00	CERAMIC	0.0022MF	20%	400V		
C942	△1-161-742-00	CERAMIC	0.0022MF	20%	400V		
C944	△1-161-742-00	CERAMIC	0.0022MF	20%	400V		
C945	△1-161-744-00	CERAMIC	0.01MF	10%	400V		
C946	△1-161-741-00	CERAMIC	0.001MF	10%	400V		
C947	△1-161-741-00	CERAMIC	0.001MF	10%	400V		
C948	1-130-691-00	FILM	1MF	10%	125V		
C949	1-136-165-00	FILM	0.1MF	5%	50V		
C951	1-163-038-00	CERAMIC CHIP	0.1MF	25%			
C953	1-163-038-00	CERAMIC CHIP	0.1MF	25%			
C954	1-163-133-00	CERAMIC CHIP	470PF	10%	50V		
C955	1-163-038-00	CERAMIC CHIP	0.1MF	25%			
C956	1-135-101-21	TANTAL. CHIP	22MF	10%	6.3V		
C957	1-163-038-00	CERAMIC CHIP	0.1MF	25%			
C958	1-163-133-00	CERAMIC CHIP	470PF	10%	50V		
C959	1-163-133-00	CERAMIC CHIP	470PF	10%	50V		
C960	1-163-143-00	CERAMIC CHIP	0.0012MF	10%	50V		
C961	1-163-021-00	CERAMIC CHIP	0.01MF	10%	50V		
C962	1-163-818-00	CERAMIC CHIP	0.1MF	10%	50V		
C963	1-163-021-00	CERAMIC CHIP	0.01MF	10%	50V		
C964	1-163-035-00	CERAMIC CHIP	0.047MF	10%	25V		
C965	1-163-077-00	CERAMIC CHIP	0.1MF	10%	25V		
C966	1-163-038-00	CERAMIC CHIP	0.1MF	25%			
C967	1-135-101-21	TANTAL. CHIP	22MF	10%	6.3V		
C968	1-163-038-00	CERAMIC CHIP	0.1MF	25%			
C969	1-163-038-00	CERAMIC CHIP	0.1MF	25%			
C970	1-135-101-21	TANTAL. CHIP	22MF	10%	6.3V		
C971	1-163-077-00	CERAMIC CHIP	0.1MF	10%	25V		

ELECTRICAL PARTS

Ref. No.	Part No.	Description					
C972	1-163-035-00	CERAMIC CHIP	0.047MF	10%	25V		
C973	1-163-021-00	CERAMIC CHIP	0.01MF	10%	50V		
C974	1-163-818-00	CERAMIC CHIP	0.1MF	10%	50V		
C975	1-163-021-00	CERAMIC CHIP	0.01MF	10%	50V		
C976	1-163-143-00	CERAMIC CHIP	0.0012MF	10%	50V		
C977	1-163-020-00	CERAMIC CHIP	0.0082MF	10%	50V		
C978	1-135-091-00	TANTAL. CHIP	1MF	10%	16V		
C979	1-163-020-00	CERAMIC CHIP	0.0082MF	10%	50V		
C980	1-163-035-00	CERAMIC CHIP	0.047MF	10%	25V		
C981	1-163-035-00	CERAMIC CHIP	0.047MF	10%	25V		
C982	1-163-133-00	CERAMIC CHIP	470PF	10%	50V		
C983	1-163-021-00	CERAMIC CHIP	0.01MF	10%	50V		
C984	1-163-133-00	CERAMIC CHIP	470PF	10%	50V		
C985	1-163-133-00	CERAMIC CHIP	470PF	10%	50V		
CN001	*1-564-506-11	PLUG, CONNECTOR	3P				
CN002	*1-564-506-11	PLUG, CONNECTOR	3P				
CN003	*1-564-505-11	PLUG, CONNECTOR	2P				
CN004	*1-564-505-31	PLUG, CONNECTOR	2P				
CN005	*1-564-505-41	PLUG, CONNECTOR	2P				
CN051	*1-564-520-11	PLUG, CONNECTOR	5P				
CN081	1-564-521-21	PLUG, CONNECTOR	6P				
CN101	*1-564-506-11	PLUG, CONNECTOR	3P				
CN121	*1-564-505-11	PLUG, CONNECTOR	2P				
CN122	*1-564-505-31	PLUG, CONNECTOR	2P				
CN123	*1-564-505-11	PLUG, CONNECTOR	2P				
CN124	*1-564-505-31	PLUG, CONNECTOR	2P				
CN125	*1-564-505-11	PLUG, CONNECTOR	2P				
CN126	*1-564-505-31	PLUG, CONNECTOR	2P				
CN171	*1-564-511-11	PLUG, CONNECTOR	8P				
CN181	*1-564-509-11	PLUG, CONNECTOR	6P				
CN182	*1-564-508-11	PLUG, CONNECTOR	5P				
CN184	*1-564-507-31	PLUG, CONNECTOR	4P				
CN191	*1-564-506-11	PLUG, CONNECTOR	3P				
CN192	*1-564-506-11	PLUG, CONNECTOR	3P				
CN193	*1-535-116-00	TERMINAL					
CN194	*1-535-116-00	TERMINAL					
CN211	*1-564-519-11	PLUG, CONNECTOR	4P				
CN213	*1-564-507-31	PLUG, CONNECTOR	4P				
CN215	*1-564-506-11	PLUG, CONNECTOR	3P				
CN231	*1-564-507-11	PLUG, CONNECTOR	4P				
CN232	1-564-519-31	PLUG, CONNECTOR	4P				
CN300	*1-564-506-11	PLUG, CONNECTOR	3P				
CN321	*1-564-505-11	PLUG, CONNECTOR	2P				
CN322	*1-564-511-11	PLUG, CONNECTOR	8P				
CN401	*1-563-370-11	CONNECTOR, F.P.C	14P				
CN451	*1-564-727-11	PIN, CONNECTOR (SMALL TYPE)	11P				
CN501	*1-564-508-11	PLUG, CONNECTOR	5P				
CN502	*1-564-707-11	PIN, CONNECTOR (SMALL TYPE)	5P				
CN503	*1-564-505-11	PLUG, CONNECTOR	2P				
CN504	*1-562-883-11	SOCKET, CONNECTOR	20P				
CN505	*1-564-511-11	PLUG, CONNECTOR	8P				
CN506	*1-564-515-11	PLUG, CONNECTOR	12P				
CN541	*1-564-713-11	PIN, CONNECTOR (SMALL TYPE)	11P				
CN571	*1-564-596-11	PLUG, CONNECTOR	15P				
CN572	*1-564-505-41	PLUG, CONNECTOR	2P				
CN581	*1-564-511-21	PLUG, CONNECTOR	8P				

ELECTRICAL PARTS

<u>Ref.No.</u>	<u>Part No.</u>	<u>Description</u>
CN582	*1-564-509-11	PLUG, CONNECTOR 6P
CN583	*1-564-706-11	PIN, CONNECTOR (SMALL TYPE) 4P
CN591	*1-564-511-11	PLUG, CONNECTOR 8P
CN592	*1-564-505-31	PLUG, CONNECTOR 2P
CN593	*1-564-507-11	PLUG, CONNECTOR 4P
CN596	*1-564-708-11	PIN, CONNECTOR (SMALL TYPE) 6P
CN711	*1-564-511-11	PLUG, CONNECTOR 8P
CN741	*1-564-596-11	PLUG, CONNECTOR 15P
CN751	*1-564-509-11	PLUG, CONNECTOR 6P
CN752	*1-564-505-41	PLUG, CONNECTOR 2P
CN781	*1-564-513-11	PLUG, CONNECTOR 10P
CN782	*1-564-706-11	PIN, CONNECTOR (SMALL TYPE) 4P
CN783	*1-564-512-11	PLUG, CONNECTOR 9P
CN791	*1-564-337-41	PIN, CONNECTOR 3P
CN793	*1-564-339-00	PIN, CONNECTOR 5P
CN794	*1-564-666-11	PIN, CONNECTOR 10P
CN795	*1-564-337-81	PIN, CONNECTOR 3P
CN796	*1-564-507-11	PLUG, CONNECTOR 4P
CN797	*1-564-342-11	PIN, CONNECTOR 8P
CN801	*1-564-509-11	PLUG, CONNECTOR 6P
CN811	*1-564-509-11	PLUG, CONNECTOR 6P
CN812	*1-564-508-11	PLUG, CONNECTOR 5P
CN813	*1-564-507-31	PLUG, CONNECTOR 4P
CN851	*1-564-511-21	PLUG, CONNECTOR 8P
CN852	*1-564-509-11	PLUG, CONNECTOR 6P
CN853	*1-564-706-11	PIN, CONNECTOR (SMALL TYPE) 4P
CN871	*1-564-514-11	PLUG, CONNECTOR 11P
CN872	*1-564-706-11	PIN, CONNECTOR (SMALL TYPE) 4P
CN873	*1-564-513-31	PLUG, CONNECTOR 10P
CN881	*1-564-342-51	PIN, CONNECTOR 8P
CN882	*1-564-341-51	PIN, CONNECTOR 7P
CN883	*1-564-338-61	PIN, CONNECTOR 4P
CN887	*1-564-340-51	PIN, CONNECTOR 6P
CN891	*1-564-506-11	PLUG, CONNECTOR 3P
CN892	*1-564-710-11	PIN, CONNECTOR (SMALL TYPE) 8P
CN893	*1-564-705-11	PIN, CONNECTOR (SMALL TYPE) 3P
CN901	*1-564-506-11	PLUG, CONNECTOR 3P
CN902	*1-535-116-00	TERMINAL
CN903	*1-535-116-00	TERMINAL
CN904	*1-564-506-11	PLUG, CONNECTOR 3P
CN906	*1-564-506-11	PLUG, CONNECTOR 3P
CN907	*1-564-506-11	PLUG, CONNECTOR 3P
CN908	*1-564-506-11	PLUG, CONNECTOR 3P
CN911	*1-535-116-00	TERMINAL
CN912	*1-535-120-00	TERMINAL
CN951	1-564-722-11	PIN, CONNECTOR (SMALL TYPE) 6P
CN952	1-564-729-11	PIN, CONNECTOR (SMALL TYPE) 13P
CN953	*1-564-505-11	PLUG, CONNECTOR 2P
CN954	*1-564-505-11	PLUG, CONNECTOR 2P
CN971	*1-564-509-11	PLUG, CONNECTOR 6P
CN981	*1-564-506-11	PLUG, CONNECTOR 3P
CNJ301	1-507-898-11	JACK, PIN 2P
CNJ302	1-507-898-11	JACK, PIN 2P
CNT51	*1-560-065-00	PIN, CONNECTOR 8P
CNT52	*1-560-062-00	PIN, CONNECTOR 4P
CNT53	*1-564-506-11	PLUG, CONNECTOR 3P

ELECTRICAL PARTS

<u>Ref.No.</u>	<u>Part No.</u>	<u>Description</u>
CNT54	*1-564-506-11	PLUG, CONNECTOR 3P
CNT55	*1-560-064-00	PIN, CONNECTOR 6P
CNT56	*1-564-509-11	PLUG, CONNECTOR 6P
CP501	1-232-976-11	COMPOSITION CIRCUIT BLOCK
CP502	1-232-976-11	COMPOSITION CIRCUIT BLOCK
CP503	1-232-976-11	COMPOSITION CIRCUIT BLOCK
CP504	1-233-061-11	COMPOSITION CIRCUIT BLOCK
CP505	1-232-955-11	COMPOSITION CIRCUIT BLOCK
CP506	1-233-093-11	COMPOSITION CIRCUIT BLOCK
CP507	1-232-997-11	COMPOSITION CIRCUIT BLOCK
CP508	1-233-094-11	COMPOSITION CIRCUIT BLOCK
CP509	1-233-092-11	COMPOSITION CIRCUIT BLOCK
CP510	1-233-092-11	COMPOSITION CIRCUIT BLOCK
CP701	1-233-006-11	COMPOSITION CIRCUIT BLOCK
CP702	1-232-953-11	COMPOSITION CIRCUIT BLOCK
CP703	1-232-816-11	COMPOSITION CIRCUIT BLOCK
CP704	1-232-816-11	COMPOSITION CIRCUIT BLOCK
CP705	1-233-081-11	COMPOSITION CIRCUIT BLOCK
D001	8-719-200-77	DIODE 10E2N
D101	8-719-940-76	DIODE 1SS132
D102	8-719-815-55	DIODE 1S1555
D103	8-719-815-55	DIODE 1S1555
D104	8-719-815-55	DIODE 1S1555
D105	8-719-910-95	DIODE HZ9B2L
D201	8-719-940-76	DIODE 1SS132
D202	8-719-815-55	DIODE 1S1555
D203	8-719-815-55	DIODE 1S1555
D204	8-719-815-55	DIODE 1S1555
D205	8-719-910-95	DIODE HZ9B2L
D301	8-719-910-95	DIODE HZ9B2L
D302	8-719-910-95	DIODE HZ9B2L
D303	8-719-209-12	DIODE 10YD1.3-A
D304	8-719-209-12	DIODE 10YD1.3-A
D305	8-719-940-76	DIODE 1SS132
D306	8-719-940-76	DIODE 1SS132
D307	8-719-940-76	DIODE 1SS132
D308	8-719-940-76	DIODE 1SS132
D401	8-719-910-05	DIODE 1S2837
D402	8-719-910-05	DIODE 1S2837
D501	8-719-940-76	DIODE 1SS132
D502	8-719-200-77	DIODE 10E2N
D503	8-719-940-76	DIODE 1SS132
D504	8-719-940-76	DIODE 1SS132
D505	8-719-940-76	DIODE 1SS132
D506	8-719-921-13	DIODE HZ2CLL
D507	8-719-200-77	DIODE 10E2N
D508	8-719-940-76	DIODE 1SS132
D509	8-719-200-77	DIODE 10E2N
D510	8-719-940-76	DIODE 1SS132
D511	8-719-940-76	DIODE 1SS132
D701	8-719-940-76	DIODE 1SS132
D702	8-719-940-76	DIODE 1SS132
D703	8-719-940-76	DIODE 1SS132
D704	8-719-940-76	DIODE 1SS132
D705	8-719-940-76	DIODE 1SS132
D706	8-719-940-76	DIODE 1SS132
D707	8-719-940-76	DIODE 1SS132

DTC-1000ES

ELECTRICAL PARTS

Ref.No.	Part No.	Description
D708	8-719-940-76	DIODE 1SS132
D709	8-719-940-76	DIODE 1SS132
D710	8-719-940-76	DIODE 1SS132
D711	8-719-940-76	DIODE 1SS132
D712	8-719-940-76	DIODE 1SS132
D713	8-719-940-76	DIODE 1SS132
D714	8-719-940-76	DIODE 1SS132
D715	8-719-940-76	DIODE 1SS132
D717	8-719-940-76	DIODE 1SS132
D718	8-719-940-76	DIODE 1SS132
D719	8-719-940-76	DIODE 1SS132
D720	8-719-940-76	DIODE 1SS132
D721	8-719-911-19	DIODE 1SS119
D751	8-719-902-25	DIODE SLR-34DU5
D752	8-719-812-31	DIODE TLR-123
D753	8-719-902-77	DIODE SLR-34PC5
D754	8-719-812-31	DIODE TLR-123
D801	8-719-940-76	DIODE 1SS132
D802	8-719-940-76	DIODE 1SS132
D901	8-719-951-12	DIODE HZ5BLL
D902	8-719-200-77	DIODE 10E2N
D903	8-719-200-77	DIODE 10E2N
D904	8-719-913-33	DIODE HZ33-3L
D905	8-719-940-76	DIODE 1SS132
D906	8-719-940-76	DIODE 1SS132
D907	8-719-302-38	DIODE RBV-602-01
D908	8-719-302-38	DIODE RBV-602-01
D909	8-719-951-12	DIODE HZ5BLL
D911	8-719-230-11	DIODE 30DF1-FA
D912	8-719-230-11	DIODE 30DF1-FA
D913	8-719-230-11	DIODE 30DF1-FA
D914	8-719-230-11	DIODE 30DF1-FA
D915	8-719-230-11	DIODE 30DF1-FA
D916	8-719-230-11	DIODE 30DF1-FA
D917	8-719-230-11	DIODE 30DF1-FA
D918	8-719-230-11	DIODE 30DF1-FA
D919	8-719-940-76	DIODE 1SS132
D999	1-807-823-11	BARISTOR
FL701	1-519-414-11	INDICATOR TUBE, FLUORESCENT
H001	8-719-800-11	THS105-SONY1-TE85L
IC101	8-759-602-83	IC M5238P
IC102	8-759-910-77	IC LF353N/GLEA312
IC103	8-759-910-77	IC LF353N/GLEA312
IC104	8-752-001-80	IC CX20018
IC105	8-759-910-77	IC LF353N/GLEA312
IC201	8-759-602-83	IC M5238P
IC202	8-759-910-77	IC LF353N/GLEA312
IC203	8-759-910-77	IC LF353N/GLEA312
IC204	8-752-001-80	IC CX20018
IC205	8-759-910-77	IC LF353N/GLEA312
IC301	8-759-700-20	IC NJM79M05A
IC302	8-759-990-72	IC TL072CP
IC303	8-759-933-62	IC SAA7220P
IC304	8-759-939-94	IC TDA1541-N5
IC305	8-759-990-72	IC TL072CP

ELECTRICAL PARTS

Ref.No.	Part No.	Description
IC306	8-759-145-57	IC UPC4557C
IC307	8-759-145-58	IC NJM4558C
IC308	8-759-604-47	IC MSF7905
IC309	8-759-604-29	IC M5F7805
IC310	8-759-745-61	IC NJM4560D-D
IC311	8-759-916-29	IC SN74HC74N
IC401	8-752-017-40	IC CX20174
IC402	8-759-100-95	IC UPC324G2
IC403	8-759-100-93	IC UPC393G2
IC501	8-759-001-00	IC MC74HC132N
IC502	8-759-202-24	IC TC74HC86P
IC503	8-759-240-66	IC TC4066BP
IC504	8-759-240-53	IC TC4053BP
IC505	8-759-132-40	IC UPC324C
IC506	8-759-133-90	IC UPC339C
IC507	8-759-701-42	IC NJU8001D
IC508	8-759-132-40	IC UPC324C
IC509	8-759-701-42	IC NJU8001D
IC510	8-759-208-61	IC TMP47C800N-2111
IC511	8-759-240-69	IC TC4069UBP
IC512	8-759-208-77	IC TMP47C460AF-9469
IC513	8-759-202-11	IC TC74HC00P
IC514	8-759-203-01	IC TC74HC175P
IC515	8-752-304-30	IC CX23043
IC516	8-759-202-32	IC TC74HC163P
IC517	8-759-245-38	IC TC4538P
IC518	8-759-933-80	IC CXD1052Q
IC519	8-759-135-80	IC UPC358C
IC520	8-759-914-44	IC TL431CLPB
IC521	8-759-345-38	IC HD14538BP
IC522	8-759-203-73	IC TC74HC4066P
IC523	8-759-909-45	IC CX20084
IC524	8-759-914-44	IC TL431CLPB
IC525	8-759-135-80	IC UPC358C
IC526	8-759-132-40	IC UPC324C
IC527	8-752-030-63	IC CXA1046M
IC528	8-759-240-51	IC TC4051BP
IC529	8-759-240-51	IC TC4051BP
IC530	8-759-135-80	IC UPC358C
IC531	8-759-132-40	IC UPC324C
IC532	8-759-103-93	IC UPC393C
IC533	8-759-135-80	IC UPC358C
IC534	8-759-103-93	IC UPC393C
IC535	8-759-202-11	IC TC74HC00P
IC536	8-759-240-53	IC TC4053BP
IC537	8-759-910-70	IC MB3763PS
IC538	8-759-801-60	IC LB1640N
IC701	8-759-700-48	IC NJM2903S
IC702	8-759-240-69	IC TC4069UBP
IC703	8-759-906-34	IC MSM58422-15GS
IC704	8-759-800-57	IC LB1262
IC705	8-752-802-84	IC CXP5058H-033Q
IC706	8-759-603-83	IC M50760-428P
IC751	8-749-900-36	IC BX-1393
IC801	8-759-927-60	IC MB81416-10P
IC802	8-759-927-60	IC MB81416-10P
IC805	8-759-932-23	IC TLC272CP

ELECTRICAL PARTS

Ref.No.	Part No.	Description
IC806	8-759-932-23	IC TLC272CP
IC807	8-759-933-85	IC CXD1009Q
IC808	8-759-933-84	IC CXD1008Q
IC851	8-759-945-98	IC CXD1146Q
IC852	8-759-918-71	IC CX23065
IC853	8-759-906-24	IC SN74LS624N
IC854	8-759-938-76	IC CXD1110Q
IC855	8-759-202-13	IC TC74HCU04P
IC856	8-759-202-13	IC TC74HCU04P
IC901	8-759-700-20	IC NJM79M05A
IC902	8-759-604-29	IC M5F7805
IC903	8-759-202-74	IC TC74HC04P
IC951	8-752-030-73	IC CXA1045Q
J301	1-507-796-21	JACK
L306	1-408-563-00	MICRO INDUCTOR 10UH
L307	1-408-563-00	MICRO INDUCTOR 10UH
L308	1-408-563-00	MICRO INDUCTOR 10UH
L501	1-410-336-11	MICRO INDUCTOR 220UH
L701	1-410-328-11	MICRO INDUCTOR 10UH
L702	1-410-328-11	MICRO INDUCTOR 10UH
L703	1-410-328-11	MICRO INDUCTOR 10UH
L704	1-410-328-11	MICRO INDUCTOR 10UH
L705	1-410-328-11	MICRO INDUCTOR 10UH
L801	1-407-182-XX	MICRO INDUCTOR 2.2UH
L802	1-410-328-11	MICRO INDUCTOR 10UH
L803	1-408-117-00	MICRO INDUCTOR 10UH
L804	1-410-328-11	MICRO INDUCTOR 10UH
L851	1-410-328-11	MICRO INDUCTOR 10UH
L852	1-410-328-11	MICRO INDUCTOR 10UH
L901	1-410-328-11	MICRO INDUCTOR 10UH
L941	A1-421-915-11	COIL, LINE FILTER
L951	1-408-777-00	INDUCTOR CHIP 10UH
L952	1-408-791-00	INDUCTOR CHIP 150UH
L953	1-408-791-00	INDUCTOR CHIP 150UH
LPF101	1-464-764-11	FILTER UNIT, LOW PASS
LPF201	1-464-764-11	FILTER UNIT, LOW PASS
M1	1-541-445-11	MOTOR
M2	A-4608-303-A	MOTOR ASSY, LOADING
M901	8-835-205-01	MOTOR, DC U-2A
M902	8-835-206-01	MOTOR, DC BHF-2803A
M903	X-3337-626-1	MOTOR ASSY, L
M904	8-848-500-01	DRUM ASSY DOH-01A
PH901	1-807-698-11	PHOTO SENSOR
PH902	1-807-698-11	PHOTO SENSOR
PL1	1-518-614-11	LAMP, PILOT
PL2	1-518-614-11	LAMP, PILOT
Q101	8-729-800-42	TRANSISTOR 2SK152
Q102	8-729-194-57	TRANSISTOR 2SC945-P
Q201	8-729-800-42	TRANSISTOR 2SK152
Q202	8-729-194-57	TRANSISTOR 2SC945-P
Q301	8-729-600-27	TRANSISTOR 2SC634SP
Q302	8-729-201-52	TRANSISTOR 2SA1015
Q303	8-729-600-27	TRANSISTOR 2SC634SP
Q304	8-729-201-52	TRANSISTOR 2SA1015
Q305	8-729-600-27	TRANSISTOR 2SC634SP

ELECTRICAL PARTS

Ref.No.	Part No.	Description
Q306	8-729-201-52	TRANSISTOR 2SA1015
Q307	8-729-167-62	TRANSISTOR 2SC2676
Q308	8-729-127-53	TRANSISTOR 2SC2275-P
Q309	8-729-167-62	TRANSISTOR 2SC2676
Q310	8-729-113-82	TRANSISTOR 2SA1138
Q311	8-729-113-82	TRANSISTOR 2SA1138
Q312	8-729-190-53	TRANSISTOR 2SA985A
Q313	8-729-113-82	TRANSISTOR 2SA1138
Q314	8-729-167-62	TRANSISTOR 2SC2676
Q401	8-729-100-76	TRANSISTOR 2SA812
Q402	8-729-202-86	TRANSISTOR 2SA1242LB
Q403	8-729-901-01	TRANSISTOR DTC144EK
Q404	8-729-901-01	TRANSISTOR DTC144EK
Q405	8-729-903-82	TRANSISTOR FMW2
Q406	8-729-903-82	TRANSISTOR FMW2
Q501	8-729-600-27	TRANSISTOR 2SC634SP
Q502	8-729-104-93	TRANSISTOR 2SB1040A
Q503	8-729-117-54	TRANSISTOR 2SA1175
Q504	8-729-699-51	TRANSISTOR 2SA995
Q505	8-729-625-91	TRANSISTOR 2SC2259
Q506	8-729-117-54	TRANSISTOR 2SA1175
Q507	8-729-600-27	TRANSISTOR 2SC634SP
Q508	8-729-117-54	TRANSISTOR 2SA1175
Q509	8-729-600-27	TRANSISTOR 2SC634SP
Q510	8-729-117-54	TRANSISTOR 2SA1175
Q511	8-729-600-27	TRANSISTOR 2SC634SP
Q512	8-729-202-02	TRANSISTOR 2SB1015
Q513	8-729-806-34	TRANSISTOR 2SC3400
Q514	8-729-117-54	TRANSISTOR 2SA1175
Q515	8-729-117-54	TRANSISTOR 2SA1175
Q516	8-729-600-27	TRANSISTOR 2SC634SP
Q517	8-729-402-02	TRANSISTOR 2SK656
Q518	8-729-600-27	TRANSISTOR 2SC634SP
Q519	8-729-600-27	TRANSISTOR 2SC634SP
Q520	8-729-600-27	TRANSISTOR 2SC634SP
Q521	8-729-616-16	TRANSISTOR 2SA1346
Q522	8-729-806-16	TRANSISTOR 2SA1346
Q523	8-729-806-34	TRANSISTOR 2SC3400
Q524	8-729-806-34	TRANSISTOR 2SC3400
Q525	8-729-806-34	TRANSISTOR 2SC3400
Q526	8-729-600-27	TRANSISTOR 2SC634SP
Q527	8-729-111-67	TRANSISTOR 2SB1094-L
Q528	8-729-600-27	TRANSISTOR 2SC634SP
Q529	8-729-111-67	TRANSISTOR 2SB1094-L
Q530	8-729-600-27	TRANSISTOR 2SC634SP
Q531	8-729-204-83	TRANSISTOR 2SA1048
Q532	8-729-204-83	TRANSISTOR 2SA1048
Q533	8-729-629-12	TRANSISTOR 2SC2291
Q534	8-729-600-27	TRANSISTOR 2SC634SP
Q535	8-729-600-27	TRANSISTOR 2SC634SP
Q536	8-729-204-83	TRANSISTOR 2SA1048
Q537	8-729-204-83	TRANSISTOR 2SA1048
Q538	8-729-629-12	TRANSISTOR 2SC2291
Q539	8-729-600-27	TRANSISTOR 2SC634SP
Q540	8-729-806-34	TRANSISTOR 2SC3400
Q541	8-729-806-16	TRANSISTOR 2SA1346
Q542	8-729-801-92	TRANSISTOR 2SD1387

DTC-1000ES

ELECTRICAL PARTS

Ref.No.	Part No.	Description
Q543	8-729-806-34	TRANSISTOR 2SC3400
Q544	8-729-806-34	TRANSISTOR 2SC3400
Q545	8-729-801-83	TRANSISTOR 2SB1013
Q546	8-729-801-92	TRANSISTOR 2SD1387
Q547	8-729-806-34	TRANSISTOR 2SC3400
Q548	8-729-154-83	TRANSISTOR 2SB548
Q549	8-729-806-34	TRANSISTOR 2SC3400
Q550	8-729-806-16	TRANSISTOR 2SA1346
Q551	8-729-806-34	TRANSISTOR 2SC3400
Q552	8-729-806-34	TRANSISTOR 2SC3400
Q560	8-729-806-34	TRANSISTOR 2SC3400
Q561	8-729-806-34	TRANSISTOR 2SC3400
Q701	8-729-806-34	TRANSISTOR 2SC3400
Q702	8-729-806-34	TRANSISTOR 2SC3400
Q703	8-729-806-34	TRANSISTOR 2SC3400
Q704	8-729-204-83	TRANSISTOR 2SA1048
Q705	8-729-204-83	TRANSISTOR 2SA1048
Q706	8-729-204-83	TRANSISTOR 2SA1048
Q707	8-729-806-34	TRANSISTOR 2SC3400
Q708	8-729-204-83	TRANSISTOR 2SA1048
Q709	8-729-806-16	TRANSISTOR 2SA1346
Q803	8-729-600-27	TRANSISTOR 2SC634SP
Q804	8-729-204-83	TRANSISTOR 2SA1048
Q805	8-729-806-34	TRANSISTOR 2SC3400
Q851	8-729-100-13	TRANSISTOR 2SC2001-K2
Q852	8-729-100-13	TRANSISTOR 2SC2001-K2
Q856	8-729-806-34	TRANSISTOR 2SC3400
Q857	8-729-806-34	TRANSISTOR 2SC3400
Q901	8-729-173-13	TRANSISTOR 2SB731
Q902	8-729-600-27	TRANSISTOR 2SC634SP
Q903	8-729-600-27	TRANSISTOR 2SC634SP
Q904	8-729-204-83	TRANSISTOR 2SA1048
Q905	8-729-111-67	TRANSISTOR 2SB1094-L
Q906	8-729-600-27	TRANSISTOR 2SC634SP
Q907	8-729-600-27	TRANSISTOR 2SC634SP
Q908	8-729-204-83	TRANSISTOR 2SA1048
Q909	8-729-111-67	TRANSISTOR 2SB1094-L
R001	1-249-405-11	CARBON 100 5% 1/4W
R002	1-247-693-11	CARBON 27 5% 1/4W
R003	1-249-405-11	CARBON 100 5% 1/4W
R101	1-249-739-11	CARBON 560K 1/2W
R102	1-249-556-11	CARBON 1.5K 1/4W
R103	1-247-713-11	CARBON 1K 1/4W
R104	1-249-798-11	CARBON 680 1% 1/2W
R105	1-247-259-00	CARBON 6.8K 1% 1/2W
R106	1-249-469-11	CARBON 100K 1/4W
R107	1-247-719-11	CARBON 3.3K 1% 1/4W
R108	1-249-951-11	CARBON 15K 1% 1/4W
R109	1-249-947-11	CARBON 10K 1% 1/4W
R110	1-249-947-11	CARBON 10K 1% 1/4W
R111	1-247-711-11	CARBON 680 1/4W
R112	1-247-725-11	CARBON 10K 1/4W
R113	1-214-757-11	METAL 15K 1/4W
R114	1-214-753-00	METAL 10K 1% 1/4W
R115	1-214-753-00	METAL 10K 1% 1/4W
R116	1-214-767-00	METAL 39K 1% 1/4W
R117	1-249-462-11	CARBON 22K 1/4W
R118	1-247-717-11	CARBON 2.2K 1/4W

ELECTRICAL PARTS

Ref.No.	Part No.	Description
R119	1-214-745-00	METAL 4.7K 1% 1/4W
R121	1-246-545-00	CARBON 1M 1/4W
R122	1-247-713-11	CARBON 1K 1% 1/4W
R123	1-249-929-11	CARBON 1.8K 1% 1/4W
R124	1-249-929-11	CARBON 1.8K 1% 1/4W
R125	1-249-929-11	CARBON 1.8K 1% 1/4W
R126	1-247-717-11	CARBON 2.2K 1/4W
R127	1-247-713-11	CARBON 1K 1/4W
R128	1-249-469-11	CARBON 100K 1/4W
R129	1-247-741-11	CARBON 150 1/2W
R130	1-249-497-11	CARBON 33K 1/4W
R131	1-249-586-11	CARBON 27K 1/4W
R132	1-249-596-11	CARBON 68K 1/4W
R133	1-249-421-11	CARBON 2.2K 5% 1/4W
R134	1-215-476-00	CARBON 200K 5% 1/4W
R135	1-249-410-11	CARBON 270 5% 1/4W
R136	1-215-420-00	CARBON 910 5% 1/4W
R137	1-249-411-11	CARBON 330 5% 1/4W
R138	1-249-417-11	CARBON 1K 5% 1/4W
R139	1-215-493-00	CARBON 1M 5% 1/4W
R140	1-249-429-11	CARBON 10K 5% 1/4W
R141	1-249-417-11	CARBON 1K 5% 1/4W
R142	1-215-493-00	CARBON 1M 5% 1/4W
R143	1-249-836-11	CARBON 27K 1% 1/2W
R144	1-249-657-11	CARBON 220 1/2W
R145	1-249-945-11	CARBON 8.2K 1% 1/4W
R146	1-247-702-11	CARBON 150 1/4W
R147	1-246-545-00	CARBON 1M 1/4W
R148	1-249-943-11	CARBON 6.8K 1% 1/4W
R149	1-249-962-11	CARBON 43K 1% 1/4W
R150	1-249-462-11	CARBON 22K 1/4W
R151	1-249-753-85	CARBON 4.7M 5% 1/4W
R152	1-246-545-00	CARBON 1M 1/4W
R312	1-249-419-11	CARBON 1.5K 5% 1/4W
R313	1-247-887-00	CARBON 220K 5% 1/4W
R314	1-249-427-11	CARBON 6.8K 5% 1/4W
R315	1-249-421-11	CARBON 2.2K 5% 1/4W
R316	1-249-429-11	CARBON 10K 5% 1/4W
R317	1-249-417-11	CARBON 1K 5% 1/4W
R318	1-249-424-11	CARBON 3.9K 5% 1/4W
R319	1-214-859-00	METAL 620 1% 1/2W
R320	1-214-866-00	METAL 1.2K 1% 1/2W
R321	1-214-866-00	METAL 1.2K 1% 1/2W
R322	1-214-861-00	METAL 750 1% 1/2W
R323	1-247-719-11	CARBON 3.3K 1/4W
R324	1-247-711-11	CARBON 680 1/4W
R325	1-249-466-11	CARBON 56K 1/4W
R326	1-249-466-11	CARBON 56K 1/4W
R327	1-247-711-11	CARBON 680 1/4W
R328	1-247-719-11	CARBON 3.3K 1/4W
R329	1-247-706-11	CARBON 330 1/4W
R330	1-247-706-11	CARBON 330 1/4W
R331	1-249-435-11	CARBON 33K 5% 1/4W
R332	1-249-433-11	CARBON 22K 5% 1/4W
R333	1-249-421-11	CARBON 2.2K 5% 1/4W
R334	1-249-429-11	CARBON 10K 5% 1/4W
R335	1-247-104-00	CARBON 75 5% 1/4W

ELECTRICAL PARTS

Ref.No.	Part No.	Description			
R336	1-249-435-11	CARBON	33K	5%	1/4W
R337	1-249-433-11	CARBON	22K	5%	1/4W
R338	1-249-421-11	CARBON	2.2K	5%	1/4W
R339	1-249-429-11	CARBON	10K	5%	1/4W
R340	1-247-104-00	CARBON	75	5%	1/4W
R341	▲1-212-857-00	FUSIBLE	10	5%	1/4W
R342	▲1-212-857-00	FUSIBLE	10	5%	1/4W
R343	1-214-734-00	METAL	1.6K	1%	1/4W
R344	1-214-730-00	METAL	1.1K	1%	1/4W
R401	1-216-001-00	METAL CHIP	10	5%	1/10W
R402	1-216-001-00	METAL CHIP	10	5%	1/10W
R403	1-216-001-00	METAL CHIP	10	5%	1/10W
R404	1-216-083-00	METAL CHIP	27K	5%	1/10W
R405	1-216-073-00	METAL CHIP	10K	5%	1/10W
R406	1-216-089-00	METAL CHIP	47K	5%	1/10W
R407	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R408	1-216-063-00	METAL CHIP	3.9K	5%	1/10W
R409	1-216-041-00	METAL CHIP	470	5%	1/10W
R410	1-216-089-00	METAL CHIP	47K	5%	1/10W
R411	1-216-064-00	METAL CHIP	4.3K	5%	1/10W
R412	1-216-075-00	METAL CHIP	12K	5%	1/10W
R413	1-216-093-00	METAL CHIP	68K	5%	1/10W
R414	1-216-051-00	METAL CHIP	1.2K	5%	1/10W
R415	1-216-029-00	METAL CHIP	150	5%	1/10W
R416	1-216-029-00	METAL CHIP	150	5%	1/10W
R417	1-216-069-00	METAL CHIP	6.8K	5%	1/10W
R418	1-216-049-00	METAL CHIP	1K	5%	1/10W
R419	1-216-065-00	METAL CHIP	4.7K	5%	1/10W
R420	1-216-049-00	METAL CHIP	1K	5%	1/10W
R421	1-216-049-00	METAL CHIP	1K	5%	1/10W
R422	1-216-074-00	METAL CHIP	11K	5%	1/10W
R423	1-216-073-00	METAL CHIP	10K	5%	1/10W
R424	1-216-049-00	METAL CHIP	1K	5%	1/10W
R425	1-216-093-00	METAL CHIP	68K	5%	1/10W
R426	1-216-065-00	METAL CHIP	4.7K	5%	1/10W
R427	1-216-059-00	METAL CHIP	2.7K	5%	1/10W
R428	1-216-085-00	METAL CHIP	33K	5%	1/10W
R429	1-216-065-00	METAL CHIP	4.7K	5%	1/10W
R430	1-216-075-00	METAL CHIP	12K	5%	1/10W
R431	1-216-033-00	METAL CHIP	220	5%	1/10W
R432	1-216-069-00	METAL CHIP	6.8K	5%	1/10W
R433	1-216-033-00	METAL CHIP	220	5%	1/10W
R434	1-216-049-00	METAL CHIP	1K	5%	1/10W
R435	1-216-074-00	METAL CHIP	11K	5%	1/10W
R436	1-216-073-00	METAL CHIP	10K	5%	1/10W
R437	1-216-049-00	METAL CHIP	1K	5%	1/10W
R438	1-216-101-00	METAL CHIP	150K	5%	1/10W
R439	1-216-073-00	METAL CHIP	10K	5%	1/10W
R440	1-216-059-00	METAL CHIP	2.7K	5%	1/10W
R441	1-216-085-00	METAL CHIP	33K	5%	1/10W
R442	1-216-065-00	METAL CHIP	4.7K	5%	1/10W
R443	1-216-001-00	METAL CHIP	10	5%	1/10W
R444	1-216-001-00	METAL CHIP	10	5%	1/10W
R501	1-249-433-11	CARBON	22K	5%	1/4W
R502	1-249-433-11	CARBON	22K	5%	1/4W
R503	1-247-891-00	CARBON	330K	5%	1/4W
R504	1-215-493-00	CARBON	1M	5%	1/4W
R505	1-215-489-00	CARBON	680K	5%	1/4W

ELECTRICAL PARTS

R506	1-247-895-00	CARBON	470K	5%	1/4W
R507	1-215-461-00	METAL	47K	1%	1/6W
R508	1-215-466-00	METAL	75K	1%	1/6W
R509	1-249-401-11	CARBON	47	5%	1/4W
R510	1-249-411-11	CARBON	330	5%	1/4W
R511	1-249-435-11	CARBON	33K	5%	1/4W
R512	1-249-433-11	CARBON	22K	5%	1/4W
R513	1-249-409-11	CARBON	220	5%	1/4W
R514	1-249-437-11	CARBON	47K	5%	1/4W
R515	1-249-437-11	CARBON	47K	5%	1/4W
R516	1-249-437-11	CARBON	47K	5%	1/4W
R517	1-249-429-11	CARBON	10K	5%	1/4W
R518	1-215-462-00	CARBON	51K	5%	1/4W
R519	1-249-437-11	CARBON	47K	5%	1/4W
R520	1-249-437-11	CARBON	47K	5%	1/4W
R521	1-249-441-11	CARBON	100K	5%	1/4W
R522	1-215-454-00	CARBON	24K	5%	1/4W
R523	1-215-477-00	METAL	220K	1%	1/6W
R524	1-215-461-00	METAL	47K	1%	1/6W
R525	1-215-438-00	METAL	5.1K	1%	1/6W
R526	1-215-438-00	METAL	5.1K	1%	1/6W
R527	1-249-429-11	CARBON	10K	5%	1/4W
R528	1-249-429-11	CARBON	10K	5%	1/4W
R529	1-215-493-00	CARBON	1M	5%	1/4W
R530	1-249-401-11	CARBON	47	5%	1/4W
R531	1-249-417-11	CARBON	1K	5%	1/4W
R532	1-215-445-00	METAL	10K	1%	1/6W
R533	1-215-445-00	METAL	10K	1%	1/6W
R534	1-249-420-11	CARBON	1.8K	5%	1/4W
R535	1-249-429-11	CARBON	10K	5%	1/4W
R536	1-215-439-00	METAL	5.6K	1%	1/6W
R537	1-247-891-00	CARBON	330K	5%	1/4W
R538	1-249-433-11	CARBON	22K	5%	1/4W
R539	1-215-462-00	CARBON	51K	5%	1/4W
R540	1-249-433-11	CARBON	22K	5%	1/4W
R541	1-249-435-11	CARBON	33K	5%	1/4W
R542	1-249-425-11	CARBON	4.7K	5%	1/4W
R543	1-249-417-11	CARBON	1K	5%	1/4W
R544	1-249-425-11	CARBON	4.7K	5%	1/4W
R545	1-249-417-11	CARBON	1K	5%	1/4W
R546	1-249-425-11	CARBON	4.7K	5%	1/4W
R547	1-249-417-11	CARBON	1K	5%	1/4W
R548	1-249-435-11	CARBON	33K	5%	1/4W
R549	1-249-439-11	CARBON	68K	5%	1/4W
R550	1-249-435-11	CARBON	33K	5%	1/4W
R551	1-249-423-11	CARBON	3.3K	5%	1/4W
R552	1-249-431-11	CARBON	15K	5%	1/4W
R553	1-249-428-11	CARBON	8.2K	5%	1/4W
R554	1-247-883-00	CARBON	150K	5%	1/4W
R555	1-249-441-11	CARBON	100K	5%	1/4W
R556	1-249-433-11	CARBON	22K	5%	1/4W
R557	1-249-441-11	CARBON	100K	5%	1/4W
R558	1-249-425-11	CARBON	4.7K	5%	1/4W
R559	1-215-445-00	METAL	10K	1%	1/6W
R560	1-215-453-00	METAL	22K	1%	1/6W
R561	1-215-457-00	METAL	33K	1%	1/6W
R562	1-249-433-11	CARBON	22K	5%	1/4W
R563	1-249-417-11	CARBON	1K	5%	1/4W

DTC-1000ES

ELECTRICAL PARTS

Ref. No.	Part No.	Description
R564	1-249-435-11	CARBON
R565	1-249-429-11	CARBON
R566	1-247-883-00	CARBON
R567	1-247-883-00	CARBON
R568	1-249-417-11	CARBON
R569	1-249-417-11	CARBON
R570	1-249-401-11	CARBON
R571	1-215-461-00	METAL
R572	1-215-466-00	METAL
R573	1-215-442-00	METAL
R574	1-215-454-00	METAL
R575	1-215-438-00	CARBON
R576	1-249-431-11	CARBON
R577	1-249-439-11	CARBON
R578	1-249-435-11	CARBON
R579	1-249-433-11	CARBON
R580	1-249-433-11	CARBON
R581	1-249-425-11	CARBON
R582	1-249-417-11	CARBON
R583	1-249-431-11	CARBON
R584	1-249-435-11	CARBON
R585	1-249-417-11	CARBON
R586	1-249-433-11	CARBON
R587	1-249-433-11	CARBON
R588	1-249-437-11	CARBON
R589	1-249-437-11	CARBON
R590	1-249-433-11	CARBON
R591	1-249-433-11	CARBON
R592	1-215-493-00	CARBON
R593	1-249-435-11	CARBON
R594	1-249-435-11	CARBON
R595	1-249-437-11	CARBON
R596	1-249-429-11	CARBON
R597	1-249-431-11	CARBON
R598	1-249-429-11	CARBON
R599	1-249-417-11	CARBON
R600	1-249-417-11	CARBON
R601	1-249-423-11	CARBON
R602	1-249-423-11	CARBON
R603	1-249-421-11	CARBON
R604	1-249-417-11	CARBON
R605	1-249-441-11	CARBON
R606	1-249-425-11	CARBON
R607	1-249-425-11	CARBON
R608	1-249-425-11	CARBON
R609	1-215-469-00	METAL
R610	1-249-405-11	CARBON
R611	1-249-429-11	CARBON
R612	1-249-429-11	CARBON
R613	1-249-405-11	CARBON
R614	1-249-407-11	CARBON
R615	1-249-447-11	CARBON
R616	1-249-447-11	CARBON
R617	1-249-389-11	CARBON
R618	1-215-469-00	METAL
R619	1-249-405-11	CARBON
R620	1-249-429-11	CARBON

ELECTRICAL PARTS

Ref. No.	Part No.	Description			
R621	1-249-429-11	CARBON	10K	5%	1/4W
R622	1-249-405-11	CARBON	100	5%	1/4W
R623	1-249-407-11	CARBON	150	5%	1/4W
R624	1-249-447-11	CARBON	1	5%	1/4W
R625	1-249-447-11	CARBON	1	5%	1/4W
R626	1-249-389-11	CARBON	4.7	5%	1/4W
R627	1-249-415-11	CARBON	680	5%	1/4W
R628	1-249-421-11	CARBON	2.2K	5%	1/4W
R629	1-249-425-11	CARBON	4.7K	5%	1/4W
R630	1-215-394-00	CARBON	75	5%	1/4W
R631	1-249-401-11	CARBON	47	5%	1/4W
R632	1-249-423-11	CARBON	3.3K	5%	1/4W
R633	1-249-427-11	CARBON	6.8K	5%	1/4W
R634	1-249-423-11	CARBON	3.3K	5%	1/4W
R635	1-249-417-11	CARBON	1K	5%	1/4W
R636	1-249-417-11	CARBON	1K	5%	1/4W
R637	1-249-435-11	CARBON	33K	5%	1/4W
R638	1-249-437-11	CARBON	47K	5%	1/4W
R639	1-249-421-11	CARBON	2.2K	5%	1/4W
R640	1-249-425-11	CARBON	4.7K	5%	1/4W
R641	1-215-394-00	CARBON	75	5%	1/4W
R642	1-249-401-11	CARBON	47	5%	1/4W
R643	1-249-423-11	CARBON	3.3K	5%	1/4W
R644	1-249-427-11	CARBON	6.8K	5%	1/4W
R645	1-249-423-11	CARBON	3.3K	5%	1/4W
R646	1-249-417-11	CARBON	1K	5%	1/4W
R647	1-249-417-11	CARBON	1K	5%	1/4W
R648	1-249-435-11	CARBON	33K	5%	1/4W
R649	1-249-437-11	CARBON	47K	5%	1/4W
R650	1-249-409-11	CARBON	220	5%	1/4W
R651	1-247-826-00	CARBON	620	5%	1/4W
R652	1-249-433-11	CARBON	22K	5%	1/4W
R653	1-249-427-11	CARBON	6.8K	5%	1/4W
R654	1-249-427-11	CARBON	6.8K	5%	1/4W
R655	1-215-486-00	CARBON	510K	5%	1/4W
R656	1-249-435-11	CARBON	33K	5%	1/4W
R657	1-249-435-11	CARBON	33K	5%	1/4W
R658	1-249-432-11	CARBON	18K	5%	1/4W
R659	1-249-432-11	CARBON	18K	5%	1/4W
R660	1-215-489-00	CARBON	680K	5%	1/4W
R661	1-249-431-11	CARBON	15K	5%	1/4W
R662	1-249-431-11	CARBON	15K	5%	1/4W
R663	1-215-489-00	CARBON	680K	5%	1/4W
R664	1-247-891-00	CARBON	330K	5%	1/4W
R665	1-249-431-11	CARBON	15K	5%	1/4W
R666	1-249-405-11	CARBON	100	5%	1/4W
R667	1-249-425-11	CARBON	4.7K	5%	1/4W
R668	1-249-407-11	CARBON	150	5%	1/4W
R669	1-249-432-11	CARBON	18K	5%	1/4W
R670	1-249-429-11	CARBON	10K	5%	1/4W
R671	1-249-433-11	CARBON	22K	5%	1/4W
R672	1-249-432-11	CARBON	18K	5%	1/4W
R673	1-249-433-11	CARBON	22K	5%	1/4W
R674	1-249-419-11	CARBON	1.5K	5%	1/4W
R675	1-249-429-11	CARBON	10K	5%	1/4W
R676	1-249-437-11	CARBON	47K	5%	1/4W
R677	1-249-437-11	CARBON	47K	5%	1/4W

ELECTRICAL PARTS

Ref.No.	Part No.	Description	Ref.No.	Part No.	Description
R678	1-249-423-11	CARBON 3.3K 5% 1/4W	R739	1-249-429-11	CARBON 10K 5% 1/4W
R679	1-249-423-11	CARBON 3.3K 5% 1/4W	R740	1-215-452-00	CARBON 20K 5% 1/4W
R680	1-249-423-11	CARBON 3.3K 5% 1/4W	R741	1-215-452-00	CARBON 20K 5% 1/4W
R681	1-249-423-11	CARBON 3.3K 5% 1/4W	R742	1-249-429-11	CARBON 10K 5% 1/4W
R682	1-249-423-11	CARBON 3.3K 5% 1/4W	R743	1-215-452-00	CARBON 20K 5% 1/4W
R683	1-249-423-11	CARBON 3.3K 5% 1/4W	R744	1-215-438-00	CARBON 5.1K 5% 1/4W
R684	1-249-409-11	CARBON 220 5% 1/4W	R745	1-249-433-11	CARBON 22K 5% 1/4W
R685	1-249-429-11	CARBON 10K 5% 1/4W	R746	1-249-433-11	CARBON 22K 5% 1/4W
R686	1-249-409-11	CARBON 220 5% 1/4W	R747	1-249-433-11	CARBON 22K 5% 1/4W
R687	1-249-429-11	CARBON 10K 5% 1/4W	R748	1-249-433-11	CARBON 22K 5% 1/4W
R688	A1-215-881-11 METAL OXIDE	15.5% 1/2W	R749	1-249-433-11	CARBON 22K 5% 1/4W
R689	1-249-423-11	CARBON 3.3K 5% 1/4W	R750	1-249-433-11	CARBON 22K 5% 1/4W
R690	1-249-416-11	CARBON 820 5% 1/4W	R751	1-249-433-11	CARBON 22K 5% 1/4W
R691	1-249-484-11	CARBON 6.8 5% 1/2W	R752	1-249-433-11	CARBON 22K 5% 1/4W
R692	1-249-429-11	CARBON 10K 5% 1/4W	R753	1-249-433-11	CARBON 22K 5% 1/4W
R693	1-249-417-11	CARBON 1K 5% 1/4W	R754	1-249-429-11	CARBON 10K 5% 1/4W
R694	1-249-409-11	CARBON 220 5% 1/4W	R755	1-249-429-11	CARBON 10K 5% 1/4W
R695	1-249-405-11	CARBON 100 5% 1/4W	R756	1-249-429-11	CARBON 10K 5% 1/4W
R696	1-249-427-11	CARBON 6.8K 5% 1/4W	R757	1-249-429-11	CARBON 10K 5% 1/4W
R701	1-215-452-00	CARBON 20K 5% 1/4W	R758	1-249-441-11	CARBON 100K 5% 1/4W
R702	1-215-452-00	CARBON 20K 5% 1/4W	R781	1-215-398-00	CARBON 110 5% 1/4W
R703	1-215-452-00	CARBON 20K 5% 1/4W	R782	1-215-398-00	CARBON 110 5% 1/4W
R704	1-215-493-00	CARBON 1M 5% 1/4W	R783	1-249-413-11	CARBON 470 5% 1/4W
R705	1-249-425-11	CARBON 4.7K 5% 1/4W	R784	1-249-413-11	CARBON 470 5% 1/4W
R706	1-249-425-11	CARBON 4.7K 5% 1/4W	R785	1-215-398-00	CARBON 110 5% 1/4W
R707	1-249-425-11	CARBON 4.7K 5% 1/4W	R786	1-249-407-11	CARBON 150 5% 1/4W
R708	1-249-433-11	CARBON 22K 5% 1/4W	R787	1-215-398-00	CARBON 110 5% 1/4W
R709	1-249-433-11	CARBON 22K 5% 1/4W	R788	1-215-398-00	CARBON 110 5% 1/4W
R710	1-215-493-00	CARBON 1M 5% 1/4W	R789	1-215-398-00	CARBON 110 5% 1/4W
R711	1-249-423-11	CARBON 3.3K 5% 1/4W	R790	1-249-413-11	CARBON 470 5% 1/4W
R712	1-249-425-11	CARBON 4.7K 5% 1/4W	R802	1-249-417-11	CARBON 1K 5% 1/4W
R713	1-249-425-11	CARBON 4.7K 5% 1/4W	R803	1-249-429-11	CARBON 10K 5% 1/4W
R714	1-249-429-11	CARBON 10K 5% 1/4W	R805	1-249-417-11	CARBON 1K 5% 1/4W
R715	1-249-429-11	CARBON 10K 5% 1/4W	R806	1-249-405-11	CARBON 100 5% 1/4W
R716	1-249-429-11	CARBON 10K 5% 1/4W	R807	1-249-431-11	CARBON 15K 5% 1/4W
R717	1-249-429-11	CARBON 10K 5% 1/4W	R808	1-215-442-00	CARBON 7.5K 5% 1/4W
R718	1-249-429-11	CARBON 10K 5% 1/4W	R809	1-249-424-11	CARBON 3.9K 5% 1/4W
R719	1-249-423-11	CARBON 3.3K 5% 1/4W	R810	1-249-425-11	CARBON 4.7K 5% 1/4W
R720	1-247-887-00	CARBON 220K 5% 1/4W	R811	1-249-433-11	CARBON 22K 5% 1/4W
R721	1-247-887-00	CARBON 220K 5% 1/4W	R812	1-249-435-11	CARBON 33K 5% 1/4W
R722	1-249-433-11	CARBON 22K 5% 1/4W	R813	1-249-429-11	CARBON 10K 5% 1/4W
R723	1-249-433-11	CARBON 22K 5% 1/4W	R814	1-249-441-11	CARBON 100K 5% 1/4W
R724	1-249-441-11	CARBON 100K 5% 1/4W	R815	1-215-470-00	CARBON 110K 5% 1/4W
R725	1-249-429-11	CARBON 10K 5% 1/4W	R816	1-247-881-00	CARBON 120K 5% 1/4W
R726	1-249-421-11	CARBON 2.2K 5% 1/4W	R817	1-247-881-00	CARBON 120K 5% 1/4W
R727	1-249-421-11	CARBON 2.2K 5% 1/4W	R818	1-249-429-11	CARBON 10K 5% 1/4W
R728	1-249-421-11	CARBON 2.2K 5% 1/4W	R819	1-249-431-11	CARBON 15K 5% 1/4W
R729	1-249-421-11	CARBON 2.2K 5% 1/4W	R820	1-249-429-11	CARBON 10K 5% 1/4W
R730	1-249-405-11	CARBON 100 5% 1/4W	R821	1-249-425-11	CARBON 4.7K 5% 1/4W
R731	1-249-405-11	CARBON 100 5% 1/4W	R822	1-249-425-11	CARBON 4.7K 5% 1/4W
R732	1-249-405-11	CARBON 100 5% 1/4W	R823	1-249-434-11	CARBON 27K 5% 1/4W
R733	1-249-425-11	CARBON 4.7K 5% 1/4W	R824	1-215-453-00	METAL 22K 1% 1/6W
R734	1-249-417-11	CARBON 1K 5% 1/4W	R825	1-215-453-00	METAL 22K 1% 1/6W
R735	1-249-441-11	CARBON 100K 5% 1/4W	R826	1-249-425-11	CARBON 4.7K 5% 1/4W
R736	1-249-429-11	CARBON 10K 5% 1/4W	R827	1-249-435-11	CARBON 33K 5% 1/4W
R737	1-215-452-00	CARBON 20K 5% 1/4W	R828	1-249-429-11	CARBON 10K 5% 1/4W
R738	1-249-429-11	CARBON 10K 5% 1/4W	R851	1-249-419-11	CARBON 1.5K 5% 1/4W

The components identified by shading and mark  are critical for safety. Replace only with part number specified.

DTC-1000ES

ELECTRICAL PARTS

Ref.No.	Part No.	Description			
R852	1-247-845-00	CARBON	3.9K	5%	1/4W
R853	1-249-433-11	CARBON	22K	5%	1/4W
R854	1-249-441-11	CARBON	100K	5%	1/4W
R856	1-249-437-11	CARBON	47K	5%	1/4W
R857	1-249-421-11	CARBON	2.2K	5%	1/4W
R858	1-247-104-00	CARBON	75	5%	1/4W
R860	1-215-440-00	CARBON	6.2K	5%	1/4W
R861	1-249-433-11	CARBON	22K	5%	1/4W
R862	1-215-440-00	CARBON	6.2K	5%	1/4W
R864	1-249-432-11	CARBON	18K	5%	1/4W
R865	1-249-438-11	CARBON	56K	5%	1/4W
R866	1-219-397-11	CARBON	22	5%	1/4W
R868	1-249-429-11	CARBON	10K	5%	1/4W
R870	1-249-429-11	CARBON	10K	5%	1/4W
R901	1-212-865-00	FUSIBLE	22	5%	1/4W F
R902	1-249-419-11	CARBON	1.5K	5%	1/4W
R904	1-249-417-11	CARBON	1K	5%	1/4W
R905	1-249-440-11	CARBON	82K	5%	1/4W
R906	1-249-418-11	CARBON	1.2K	5%	1/4W
R907	1-249-418-11	CARBON	1.2K	5%	1/4W
R908	1-249-421-11	CARBON	2.2K	5%	1/4W
R909	1-249-419-11	CARBON	1.5K	5%	1/4W
R910	1-215-438-00	CARBON	5.1K	5%	1/4W
R912	1-249-418-11	CARBON	1.2K	5%	1/4W
R913	1-249-421-11	CARBON	2.2K	5%	1/4W
R914	1-215-420-00	CARBON	910	5%	1/4W
R915	1-215-438-00	CARBON	5.1K	5%	1/4W
R916	1-217-422-00	FUSIBLE	1	5%	1/2W F
R917	1-212-948-91	FUSIBLE	3.9	5%	1/2W F
R918	1-212-948-91	FUSIBLE	3.9	5%	1/2W F
R919	1-217-383-00	FUSIBLE	4.7	5%	1/4W F
R920	1-247-895-00	CARBON	470K	5%	1/4W
R921	1-249-437-11	CARBON	47K	5%	1/4W
R922	1-212-865-00	FUSIBLE	22	5%	1/4W F
R951	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R952	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R953	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R954	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R955	1-216-089-00	METAL CHIP	47K	5%	1/10W
R956	1-216-083-00	METAL CHIP	27K	5%	1/10W
R957	1-216-065-00	METAL CHIP	4.7K	5%	1/10W
R958	1-216-085-00	METAL CHIP	33K	5%	1/10W
R959	1-216-081-00	METAL CHIP	22K	5%	1/10W
R960	1-216-079-00	METAL CHIP	18K	5%	1/10W
R961	1-216-079-00	METAL CHIP	18K	5%	1/10W
R962	1-216-081-00	METAL CHIP	22K	5%	1/10W
R963	1-216-085-00	METAL CHIP	33K	5%	1/10W
R964	1-216-083-00	METAL CHIP	27K	5%	1/10W
R965	1-216-065-00	METAL CHIP	4.7K	5%	1/10W
R966	1-216-089-00	METAL CHIP	47K	5%	1/10W
R967	1-216-073-00	METAL CHIP	10K	5%	1/10W
R968	1-216-073-00	METAL CHIP	10K	5%	1/10W
R969	1-216-085-00	METAL CHIP	33K	5%	1/10W
R970	1-216-085-00	METAL CHIP	33K	5%	1/10W
R971	1-216-089-00	METAL CHIP	47K	5%	1/10W
R972	1-216-065-00	METAL CHIP	4.7K	5%	1/10W
R973	1-216-061-00	METAL CHIP	3.3K	5%	1/10W
R974	1-216-061-00	METAL CHIP	3.3K	5%	1/10W

ELECTRICAL PARTS

Ref.No.	Part No.	Description
RV101	1-224-251-XX	RES, ADJ, METAL GLAZE 4.7K
RV102	1-224-251-XX	RES, ADJ, METAL GLAZE 4.7K
RV103	1-230-522-11	RES, ADJ, METAL GLAZE 4.7K
RV201	1-224-251-XX	RES, ADJ, METAL GLAZE 4.7K
RV202	1-224-251-XX	RES, ADJ, METAL GLAZE 4.7K
RV203	1-230-522-11	RES, ADJ, METAL GLAZE 4.7K
RV301	1-228-127-00	RES, VAR, CARBON 20K
RV302	1-237-590-11	RES, VAR, CARBON 20K/20K
RV501	1-224-253-XX	RES, ADJ, METAL GLAZE 22K
RV502	1-226-774-00	RES, ADJ, METAL GLAZE 47K
RV503	1-230-527-11	RES, ADJ, METAL GLAZE 100K
RV504	1-226-774-00	RES, ADJ, METAL GLAZE 47K
RV505	1-224-254-XX	RES, ADJ, METAL GLAZE 47K
RV506	1-230-522-11	RES, ADJ, METAL GLAZE 4.7K
RV507	1-230-524-11	RES, ADJ, METAL GLAZE 22K
RV508	1-230-524-11	RES, ADJ, METAL GLAZE 22K
RV509	1-226-774-00	RES, ADJ, METAL GLAZE 47K
RV510	1-226-774-00	RES, ADJ, METAL GLAZE 47K
RV511	1-226-774-00	RES, ADJ, METAL GLAZE 47K
RV801	1-230-523-11	RES, ADJ, METAL GLAZE 10K
RV802	1-230-523-11	RES, ADJ, METAL GLAZE 10K
RV804	1-226-774-00	RES, ADJ, METAL GLAZE 47K
RV951	1-237-433-21	RES, ADJ, METAL GLAZE 470
RV952	1-237-433-21	RES, ADJ, METAL GLAZE 470
RV953	1-237-091-11	RES, ADJ, METAL GLAZE 100K
RV954	1-237-091-11	RES, ADJ, METAL GLAZE 100K
RV955	1-230-870-11	RES, ADJ, METAL GLAZE 10K
RV956	1-230-870-11	RES, ADJ, METAL GLAZE 10K
RY301	1-515-448-00	RELAY
RY302	1-515-448-00	RELAY
S001	1-570-975-11	SWITCH, SLIDE (OUT)
S002	1-570-972-11	SWITCH (IN)
S003	1-570-973-11	SWITCH (UP)
S004	1-570-975-11	SWITCH, SLIDE (DOWN (IN))
S701	1-570-974-11	SWITCH, SLIDE (SKIP OFF/ON)
S702	1-570-974-11	SWITCH, SLIDE (INPUT SELECT)
S751	1-554-937-11	SWITCH, KEY BOARD (REC)
S752	1-554-937-11	SWITCH, KEY BOARD (PLAY)
S753	1-554-937-11	SWITCH, KEY BOARD (CUE)
S754	1-554-937-11	SWITCH, KEY BOARD (REVIEW)
S755	1-554-937-11	SWITCH, KEY BOARD (OPEN/CLOSE)
S756	1-554-937-11	SWITCH, KEY BOARD (STOP)
S757	1-554-937-11	SWITCH, KEY BOARD (AMS)
S758	1-554-937-11	SWITCH, KEY BOARD (AMS)
S759	1-554-937-11	SWITCH, KEY BOARD (REC MUTE)
S760	1-554-937-11	SWITCH, KEY BOARD (PAUSE OFF)
S761	1-571-267-11	SWITCH, KEY BOARD (WITH LED)(AUTO)
S762	1-571-267-11	SWITCH, KEY BOARD (WITH LED)(RENUMBER)
S763	1-554-937-11	SWITCH, KEY BOARD (MODE)
S764	1-554-937-11	SWITCH, KEY BOARD (RESET)
S765	1-571-267-11	SWITCH, KEY BOARD (WITH LED)(MAN)
S766	1-571-267-11	SWITCH, KEY BOARD (WITH LED)(WRITE)
S767	1-554-937-11	SWITCH, KEY BOARD (MEMORY)
S768	1-571-267-11	SWITCH, KEY BOARD (WITH LED)(ERASE)
S769	1-571-267-11	SWITCH, KEY BOARD (WITH LED)(ERASE)
S770	1-554-937-11	SWITCH, KEY BOARD (1)
S771	1-554-937-11	SWITCH, KEY BOARD (4)

ELECTRICAL PARTS

<u>Ref.No.</u>	<u>Part No.</u>	<u>Description</u>
S772	1-554-937-11	SWITCH, KEY BOARD (7)
S773	1-554-937-11	SWITCH, KEY BOARD (CLEAR)
S774	1-554-937-11	SWITCH, KEY BOARD (2)
S775	1-554-937-11	SWITCH, KEY BOARD (5)
S776	1-554-937-11	SWITCH, KEY BOARD (8)
S777	1-554-937-11	SWITCH, KEY BOARD (0)
S778	1-554-937-11	SWITCH, KEY BOARD (3)
S779	1-554-937-11	SWITCH, KEY BOARD (6)
S780	1-554-937-11	SWITCH, KEY BOARD (9)
S781	1-554-937-11	SWITCH, KEY BOARD (MUSIC SCAN START)
S782	1-553-206-00	SWITCH, SLIDE (TIMER)
S901	△1-553-318-00	SWITCH, PUSH (POWER)
S902	1-570-771-11	SWITCH LIMIT
S903	1-570-883-11	SWITCH, PUSH (2 KEY) CASSETTE DETEKT A
S904	1-570-883-21	SWITCH, PUSH (2 KEY) CASSETTE DETEKT B
T901	△1-449-017-11	TRANSFORMER, POWER
T902	1-464-763-11	COIL UNIT, DIGITAL I/O
TH501	1-800-202-XX	THERMISTOR S-10K
YC801	8-719-915-30	DIODE FC53M
X301	1-464-770-11	OSCILLATION UNIT, CRYSTAL (84.672MHz)
X501	1-567-170-00	OSCILLATOR, CERAMIC (4.19MHz)
X701	1-567-192-11	OSCILLATOR, CERAMIC (4MHz)
X702	1-527-532-00	OSCILLATOR, CERAMIC (400MHz)
X703	1-567-170-00	OSCILLATOR, CERAMIC (4.19MHz)
X801	1-567-816-11	VIBRATOR, CRYSTAL (18.816MHz)
X802	1-567-815-11	VIBRATOR, CRYSTAL (22.5792MHz)
X803	1-567-814-11	VIBRATOR, CRYSTAL (24.576MHz)

ACCESSORY & PACKING MATERIAL

<u>Part No.</u>	<u>Description</u>
1-463-828-11	REMOTE COMMANDER (RM-R1)
1-551-315-00	CORD, CONNECTION
2-394-123-01	COVER, BATTERY
3-701-613-00	BAG, POLYETHYLENE
3-701-630-00	BAG, POLYETHYLENE
3-703-450-01	INSTRUCTION
3-765-649-11	(AEP,UK)...MANUAL, INSTRUCTION
3-765-649-41	(AEP).....MANUAL, INSTRUCTION
4-919-071-01	CUSHION (RIGHT)
4-919-072-01	CUSHION (LEFT)
4-919-073-01	INDIVIDUAL CARTON

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