SERVICE MANUAL

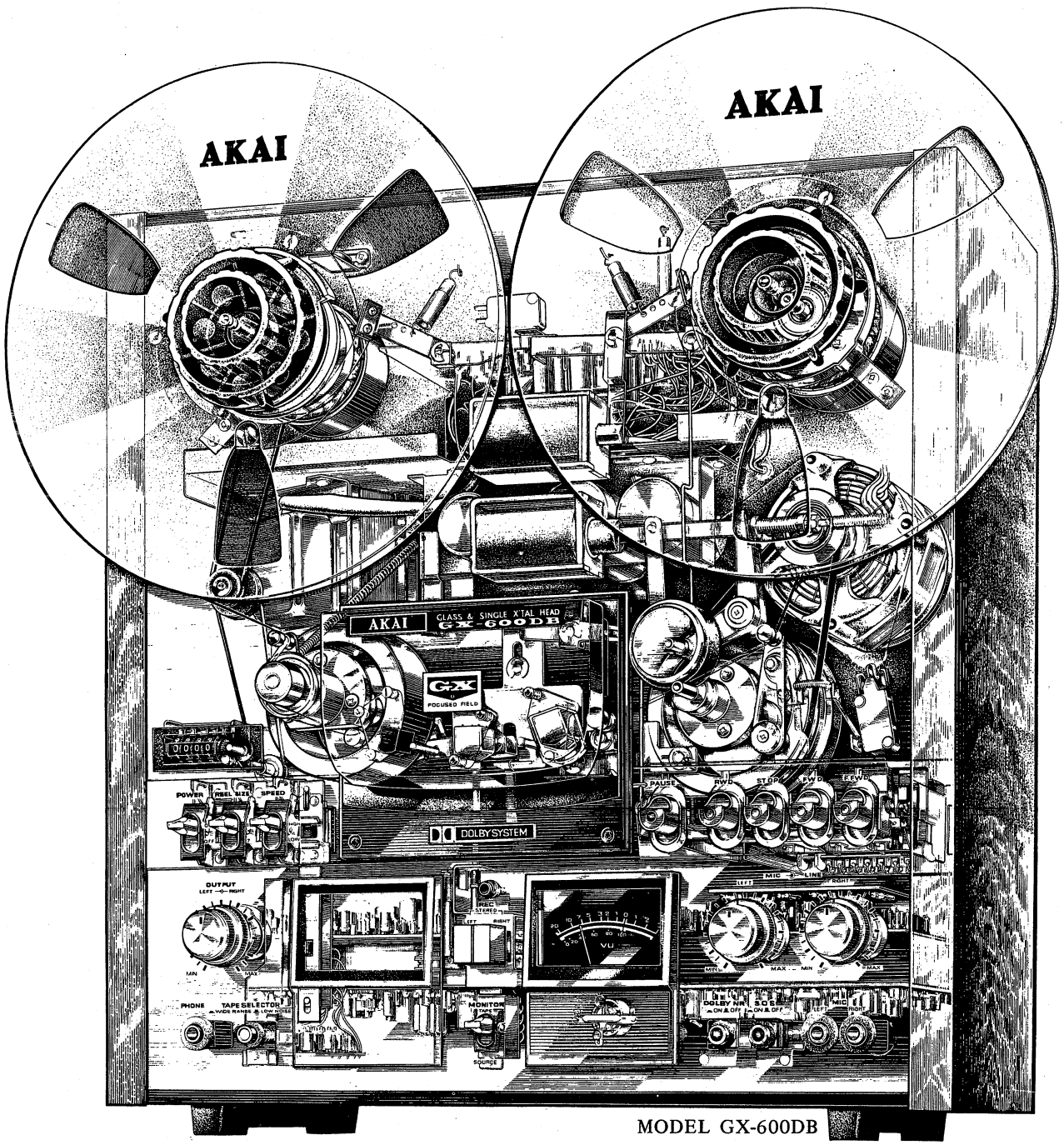
PARTS LIST

PRIDE IN QUALITY

AKAI STEREO TAPE DECK

MODEL **GX-600D**

ALSO APPLICABLE TO MODEL GX-600DB, GX-600D-PRO



MODEL GX-600DB



STEREO TAPE DECK

MODEL GX-600D

ALSO APPLICABLE TO MODEL GX-600DB, GX-600D · PRO STEREO TAPE DECK

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SECTION 1

SERVICE MANUAL

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I. SPECIFICATIONS

1. MODEL: GX-600D, GX-600DB

An asterisk next to a figure indicates the minimum guaranteed performance.

TRACK SYSTEM		4 track-2 channel stereo, monaural system
TAPE SPEED		7-1/2 ips. (19 cm/sec), 3-3/4 ips (9.5 cm/sec) ±0.8% ($*^{+1\%}_{-1.5\%}$)
WOW AND FLUTTER		Less than 0.07%(*0.1%) R.M.S. at 7-1/2 ips. Less than 0.10%(*0.17%) R.M.S. at 3-3/4 ips.
TOTAL WOW AND FLUTTER		Less than 0.13% R.M.S. at 7-1/2 ips. Less than 0.2% R.M.S. at 3-3/4 ips. (SCOTCH #150 tape, 3,000 Hz Recording/Playback)
FREQUENCY RESPONSE		30 to 23,000 Hz(*30 to 22,000 Hz)±3 dB at 7-1/2 ips. 30 to 19,000 Hz(*30 to 18,000 Hz)±3 dB at 3-3/4 ips. (SCOTCH #211 tape, low noise position, -20VU recording)
DISTORTION FACTOR		Less than 0.7% at 7-1/2 ips.
TOTAL DISTORTION FACTOR		*Less than 1.5% at 7-1/2 ips. *Less than 2.5% at 3-3/4 ips. (SCOTCH #211 tape, 1,000 Hz "0" VU Recording/Playback)
SIGNAL TO NOISE RATIO		Better than 56 dB(*50 dB)
TOTAL SIGNAL TO NOISE RATIO		*Better than 45 dB
OUTPUTS	LINE OUTPUT	0.775V(0±1 dB) Using a 700 Hz "0" VU pre-recorded tape, output vol. max.
	DIN OUTPUT	0.5V(-4±1 dB)
INPUTS	MIC INPUT	More than 0.3 mV
	LINE INPUT	More than 70 mV
	DIN INPUT	More than 3 mV
RECORDING PLAYBACK LEVEL		0.775V(0±1.5 dB) using a SCOTCH #211 tape
CROSS TALK		Better than 40 dB (stereo) Better than 60 dB (*55 dB) (Monaural) (1,000 Hz+3VU Recording)
ERASE RATIO		Better than 70 dB (1,000 Hz+3VU recording)
RECORDING BIAS FREQUENCY		150±10 kHz
BIAS LEAK		Less than -40VU
HIGH FREQUENCY DEVIATION		Within 3 dB 8,000 Hz 3-3/4 ips. tape at 7-1/2 ips.
RECORDING CAPACITY		180 min 2 channel stereo recording using a 3,600 ft. tape at 7-1/2 ips.
F.FWD AND RWD TIME		170 sec., using a 3,600 ft. tape at 50 Hz
MOTORS	CAPSTAN MOTOR	2 speed hysteresis synchronous motor Type: HM2-16MC(winterized) 4-8 pole Revolutions: 1,500/1,800 r.p.m. at 50/60 Hz 750/900 r.p.m. at 50/60 Hz
	REEL MOTOR	Two 6-pole eddy current outer rotor motors Type: 24XO-TD Revolutions: 930/1,120 r.p.m. at 50/60 Hz
HEADS	ERASE HEAD	Type: E4-260 GAP: W Gap Impedance: 210Ω ± 10% at 100 kHz D.C. Resistance: 2Ω
	RECORDING HEAD	Type: R4-200 Gap: 4 microns Impedance: 1,870Ω at 100 kHz D.C. Resistance: 8Ω
	PLAYBACK HEAD	Type: P4-202 Gap: 1.7±0.5 microns Impedance: 1,400Ω at 1 kHz D.C. Resistance: 268Ω
TRANSISTORS AND F.E.T		2SC458LG(C) . . . 16 2SC1211(D) . . . 2 2SC711(D) (E) . . . 6 2SD360(D) . . . 1 Dolby N.R. Circuit 2SA564(Q) . . . 4 2SC458(C) . . . 12 2SC458LG(C) . . . 12 2SK30A(GR) . . . 4

DIODES	1N34A . . . 2	10D4 . . . 7
	1S2473VE . . . 3	10D5 . . . 4
	Dolby N.R. Circuit	
	1N34A . . . 8	1S2473VE . . . 12
ZENER DIODES	WZ240 . . . 1	
	Dolby N.R. Circuit	
	WZ085 . . . 4	
POWER SUPPLY	100 to 240V A.C. 50/60 Hz universal models	
	120V A.C. 60 Hz U/L models	
	220V A.C. 50 Hz CEE models	
	100V A.C. 50/60 Hz JPN models	
POWER CONSUMPTION	130W/50 Hz, 100W/60 Hz	
DIMENSIONS	443(W) x 475(H) x 228(D)mm	
	(17.4" x 18.7" x 9")	
WEIGHT	GX-600D: 22.0 kg(48.4 lbs.)	
	GX-600DB: 22.3 kg(49.0 lbs.)	

NOTE: **Specifications subject to change without notice.**

2. MODEL: GX-600D · PRO

An asterisk next to a figure indicates the minimum guaranteed performance.

TRACK SYSTEM		2 track-2 channel stereo, monaural system
TAPE SPEED		15 ips. (38 cm/sec.), 7-1/2 ips. (19 cm/sec.) ±0.8% ($*^{+1\%}_{-1.5\%}$)
WOW AND FLUTTER		Less than 0.05%(*0.07%) R.M.S. at 15 ips. Less than 0.07%(*0.12%) R.M.S. at 7-1/2 ips.
TOTAL WOW AND FLUTTER		Less than 0.1% R.M.S. at 15 ips. Less than 0.15% R.M.S. at 7-1/2 ips. (SCOTCH #150 tape, 3,000 Hz Recording/Playback)
FREQUENCY RESPONSE		30 to 25,000 Hz(*30 to 24,000 Hz)±3 dB at 15 ips. 30 to 23,000 Hz(*30 to 22,000 Hz)±3 dB at 7-1/2 ips. (SCOTCH #211 tape, low noise position, -20VU recording)
DISTORTION FACTOR		Less than 0.7%
TOTAL DISTORTION FACTOR		Less than 1.5% (SCOTCH #211 tape, 1,000 Hz "0" VU Recording/Playback)
SIGNAL TO NOISE RATIO		Better than 59 dB(*50 dB)
TOTAL SIGNAL TO NOISE RATIO		Better than 45 dB
OUTPUTS	LINE OUTPUT	0.775V(0±1 dB) Using a 700 Hz "0" VU pre-recorded tape, output vol., max
	DIN OUTPUT	0.5V(-4±1 dB)
INPUTS	MIC INPUT	More than 0.3 mV
	LINE INPUT	More than 70 mV
	DIN INPUT	More than 3 mV
RECORDING PLAYBACK LEVEL		0.775V(0±1.5 dB) using a SCOTCH #211 tape.
CROSS TALK		Better than 40 dB(stereo) Better than 60 dB(*55 dB) (monaural) (1,000 Hz+3 VU recording)
ERASE RATIO		Better than 70 dB(1,000 Hz+3VU recording)
RECORDING BIAS FREQUENCY		150±10 kHz
BIAS LEAK		Less than -40VU
HIGH FREQUENCY DEVIATION		Within 3 dB 8,000 Hz 3-3/4 ips. tape at 7-1/2 ips.
RECORDING CAPACITY		45 min 2 channel stereo recording using a 3,600 ft. tape at 15 ips.
F.FWD AND RWD TIME		170 sec., using a 3,600 ft. tape at 50 Hz
MOTORS	CAPSTAN MOTOR	2 speed hysteresis synchronous motor Type: HM2-16MC (winterized) 4-8 pole Revolutions: 1,500/1,800 r.p.m. at 50/60 Hz 750/900 r.p.m. at 50/60 Hz
	REEL MOTOR	Two 6-pole eddy current outer rotor motors Type: 24XO-TD Revolutions: 930/1,120 r.p.m. at 50/60 Hz

HEADS	ERASE HEAD	Type: E2-100 Gap: W Gap Impedance: 280Ω at 100 kHz D.C. Resistance: 2.5Ω
	RECORDING HEAD	Type: R2-100 Gap: 4.5±1 microns Impedance: 3 kΩ±20% at 100 kHz D.C. Resistance: 8Ω
	PLAYBACK HEAD	Type: P2-100 Gap: 0.5 to 1 microns Impedance: 1.9 kΩ±20% at 1 kHz D.C. Resistance: 180Ω
TRANSISTORS		2SC458LG(C) . . . 6 2SC1211(D) . . . 2 2SC711(D) (E) . . . 6 2SD360(D) . . . 1
DIODES		1N34A . . . 2 10D4 . . . 7 1S2473VE . . . 3 10D5 . . . 4
ZENER DIODE		WZ240 . . . 1
POWER SUPPLY		100 to 240V A.C. 50/60 Hz universal models 120V A.C. 60Hz U/L models 220V A.C. 50Hz CEE models 100V A.C. 50/60 Hz JPN models
POWER CONSUMPTION		130W/50Hz, 100W/60 Hz
DIMENSIONS		443(W) x 475(H) x 228(D) mm (17.4" x 18.7" x 9")
WEIGHT		22.0 kg (48.4 lbs.)

NOTE: Specifications subject to change without notice

II. MEASURING METHOD

1. TAPE SPEED DEVIATION

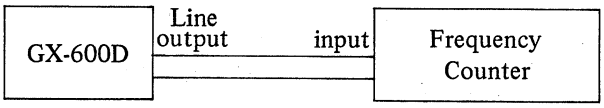


Fig. 1

As shown in Fig. 1, connect a Frequency Counter to the Line output of Model GX-600D. Playback a 1,000 Hz pre-recorded test tape. Take a Frequency Counter reading at the beginning, middle, and end of tape winding during playback. The maximum value of these respective readings will represent tape speed deviation.

2. WOW AND FLUTTER

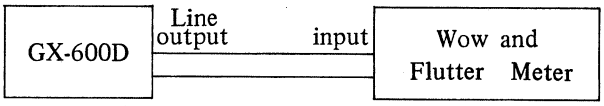


Fig. 2

METHOD A

As shown in Fig. 2, connect the Line output of Model GX-600D to the input of a Wow and Flutter Meter. Playback a 3,000 Hz pre-recorded test tape and take a Wow and Flutter Meter reading at the beginning, middle, and end of tape winding. The maximum value of these respective readings will represent the Wow and Flutter.

METHOD B

Supply a 3,000 Hz sine wave signal from an Audio Frequency Oscillator and make a recording on a blank tape at the beginning, middle, and end of tape winding. Rewind and playback the resultant signal. Measure Wow and Flutter with a Wow and Flutter Meter. (The Wow and Flutter value of Method B will be close to $\sqrt{2}$ times of value of Method A.)

3. FREQUENCY RESPONSE

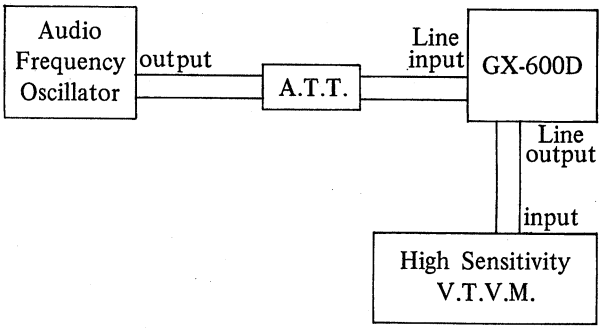


Fig. 3

For measuring Frequency Response, connect instruments as shown in Fig. 3 and proceed as follows:

1) Supply a 1,000 Hz sine wave signal to the Line input of Model GX-600D from an Audio Frequency Oscillator through an Attenuator.
2) Set recorder to recording mode and turn recording level control volume to maximum. Adjust Attenuator to obtain a 0 dB V.T.V.M. reading.
3) Under conditions described in 2) above, readjust Attenuator so that the Line output is -20 dB, and record 30 to 27,000 Hz spot frequencies.
4) Rewind tape and playback from the beginning. Take V.T.V.M. spot frequency readings and plot values on a graph.

NOTE: When measuring Frequency Response, new tape should be used.

4. SIGNAL TO NOISE RATIO

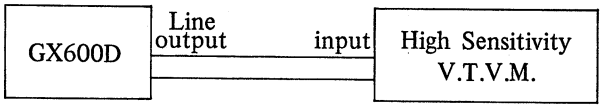


Fig. 4

As shown in Fig. 4, connect a High Sensitivity V.T.V.M. to the Line output of Model GX-600D. Playback a 700 Hz "0" VU pre-recorded test tape and measure the output. Then remove the tape and measure the noise level under the same condition. Convert each of the measured values into decibels.

5. TOTAL HARMONIC DISTORTION

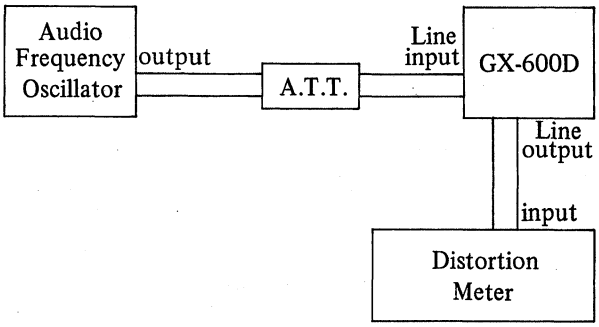


Fig. 5

Connect the measuring instruments as shown in Fig. 5 and record a 1,000 Hz sine wave signal at "0" VU. Playback the resultant signal and measure the overall distortion factor.

NOTE 1) At this time, Distortion of the Audio Frequency Oscillator for must be sufficiently small.
2) When measuring the distortion factor, new tape should be used.

6. CROSS TALK (Cross talk between the tracks)

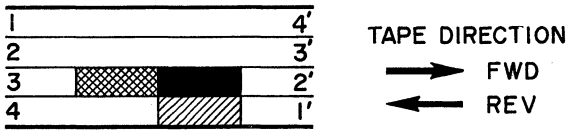


Fig. 6

As shown in Fig. 6, first record a 1,000 Hz sine wave signal on track No. 3 at +3 VU level. Next, record under a non-input condition. Then playback the tape on track No. 3 and 1 (reversed condition of tape) through the B.P.F. (1,000 Hz Band Pass Filter, sensitivity 1,000 Hz, ratio 1:1) and obtain the ratio from the following formula.

$$C = 20 \log \frac{E_0}{E_2 - E_1} \quad (dB)$$

where, C = Desired cross talk ratio (dB)
E_0 = 1,000 Hz signal output level (V)
E_2 = 1,000 Hz cross talk level (V)
E_1 = Non-input cross talk level (V)

7. ERASE RATIO

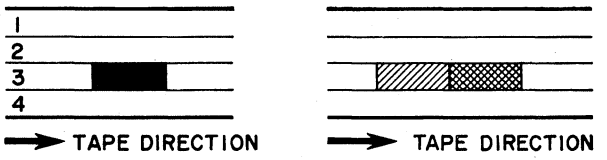


Fig. 7

As shown in Fig. 7, using a virgin tape first record a 1,000 Hz sine wave signal on track No. 3 at +3VU level, then playback this recorded signal and take a V.T.V.M. reading at the output level. Next, erase this recorded portion and playback the erased part through the B.P.F. (1,000 Hz sensitivity 1:1) and take readings of the erased signal. Obtain a ratio between the two from the following formula:

$$Er = 20 \log \frac{E_0}{E_2 - E_1} \quad (dB)$$

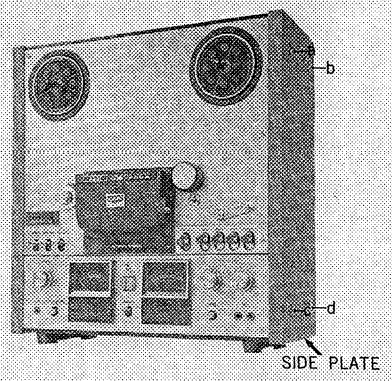
where,
Er = Desired erase ratio
E_0 = 1,000 Hz signal output level (V)
E_2 = Erased 1,000 Hz signal and noise level (V)
E_1 = Erased noise level (V)

NOTE: When measuring cross talk and erase ratio, virgin tape should be used.

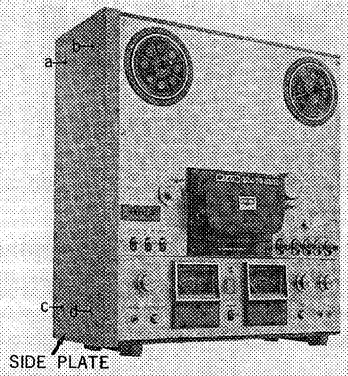
III. DISMANTLING OF UNIT

In case of trouble, etc. necessitating disassembly, please disassemble in the order shown in photographs. Reassemble in reverse order.

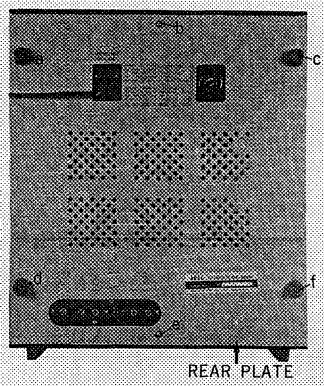
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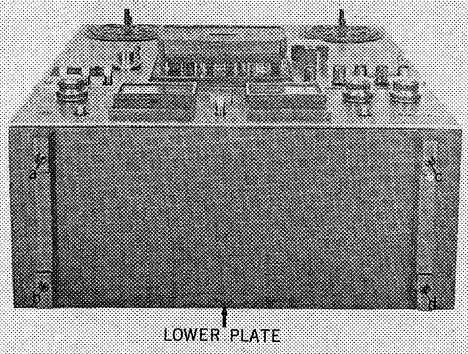
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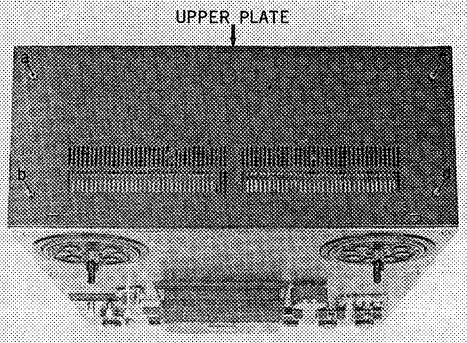
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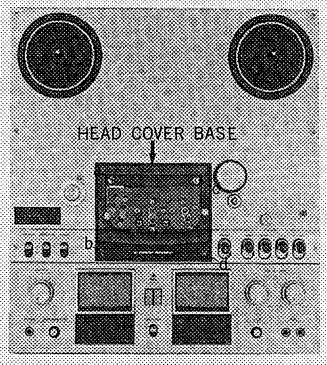
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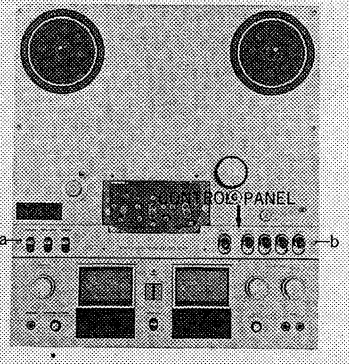
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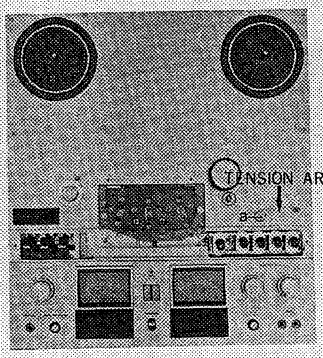
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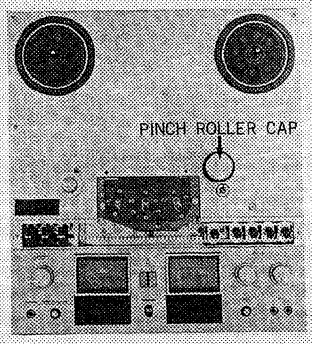
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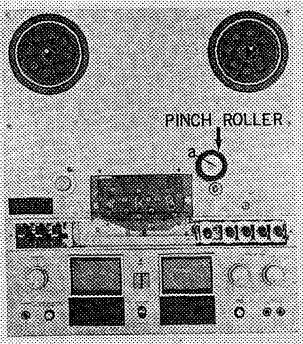
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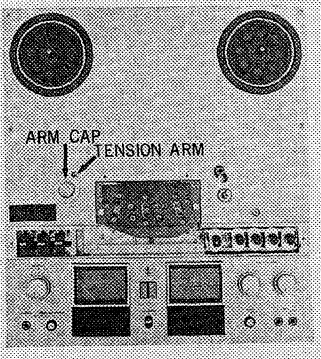
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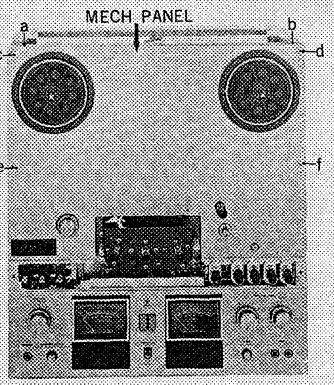
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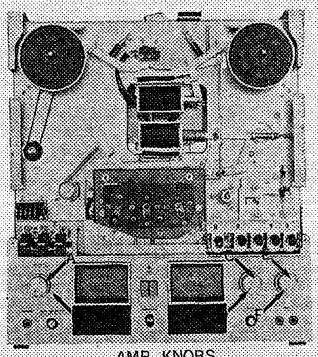
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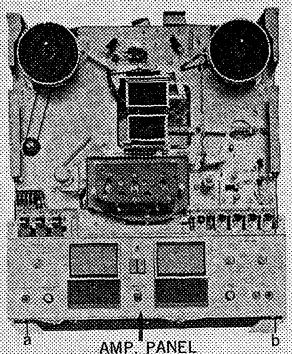
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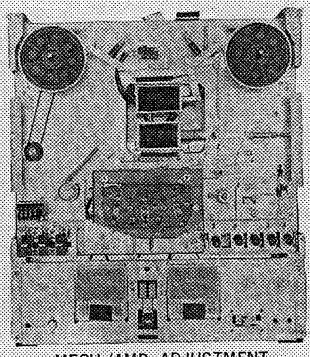
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15



16



IV. MECHANICAL SYSTEM ADJUSTMENT

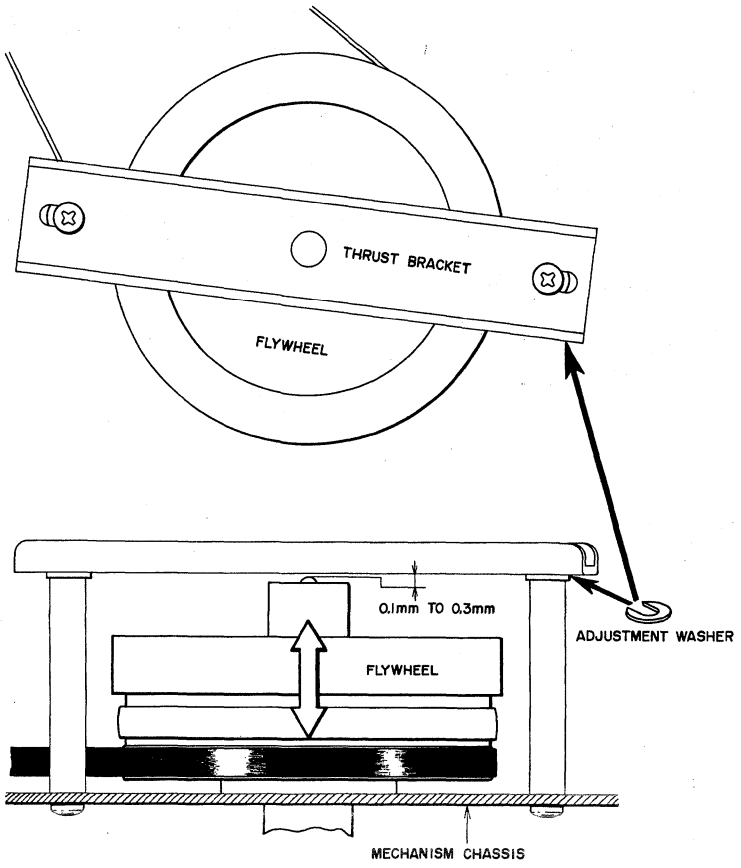


Fig. 8

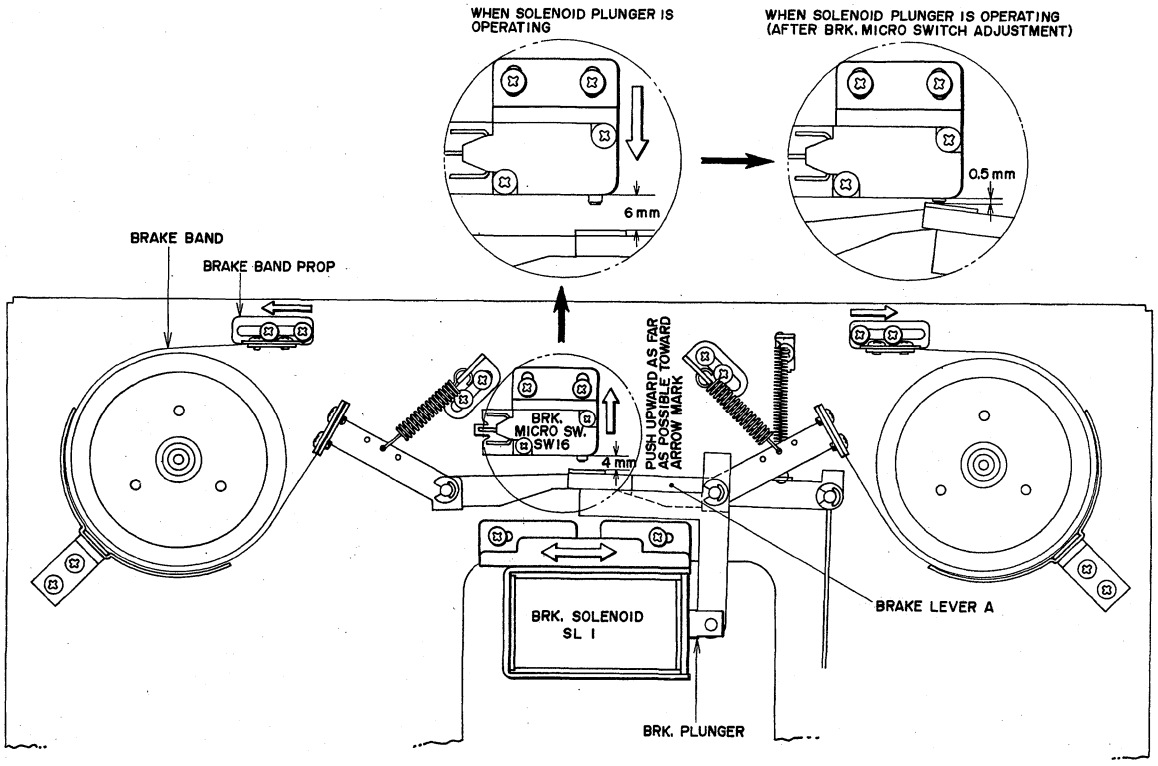


Fig. 9

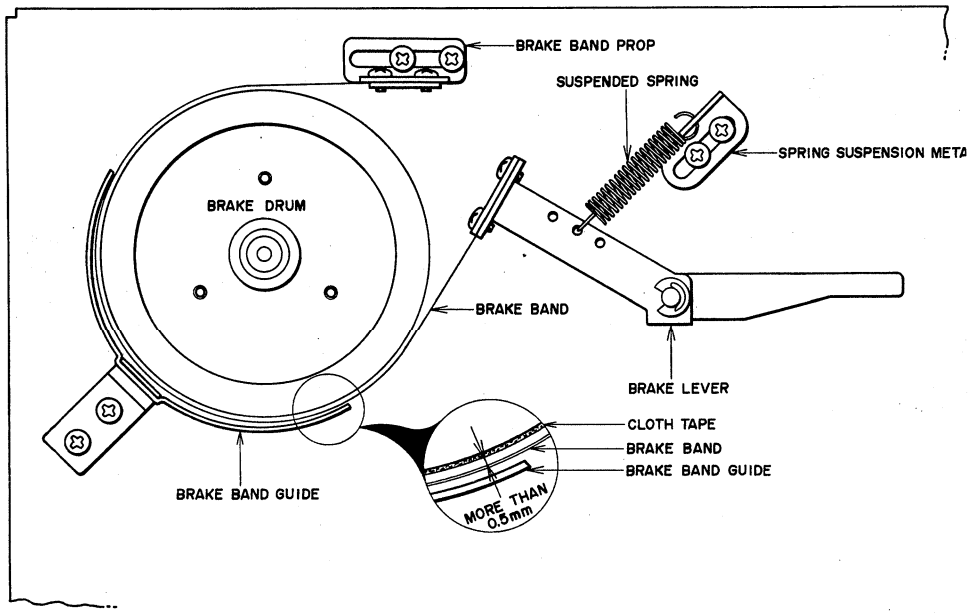


Fig. 10

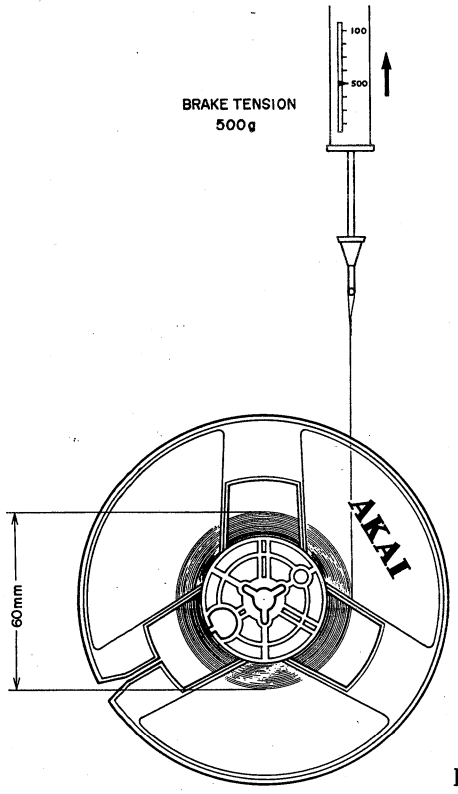


Fig. 11

1. FLYWHEEL LOOSE PLAY ADJUSTMENT

Adjust to obtain 0.1 to 0.3 mm loose play by the insertion of a horse shoe shaped washer as shown in Fig. 8.

2. BRAKE SOLENOID POSITION ADJUSTMENT (Refer to Fig. 9)

1) As shown in Fig. 9, push the Brake Micro as far as it will go toward the mechanical chassis and fix at that position.
2) Adjust brake band prop.
   Right hand brake band prop → fully to the right.
   Left hand brake band prop → fully to the left.
3) At the condition wherein the brake plunger has fully entered the solenoid, move the solenoid to left and right and fix the solenoid at place at which there is a 4 mm gap between brake lever A and the body of the brake micro switch.
4) At stop mode, lower brake micro switch and fix at position at which the space between brake lever A and the body of the brake micro switch is 6 mm.

NOTE: At playback mode (when the plunger operates), confirm that when brake lever A pushes the brake micro switch, it does not hit the body of the micro switch (Space between body of micro switch and brake lever A must be 0.5 mm).

3. BRAKE TENSION ADJUSTMENT (Refer to Fig.s 10, 11)

1) As shown in Fig. 11, for brake tension adjustment, use a 60 mm diameter of tape wound on an empty 5" reel, and measure with a spring scale. Correct brake tension is 500 gr.
2) In case brake tension is not within specifications, change the position of the suspended spring and adjust position of spring suspension metal.

NOTE: Left/right brake tension non-conformity must be within 50 gr.
After completing brake tension adjustment, confirm that at each mode (except stop mode), the brake band completely separates from the cloth tape on the brake drum. (free condition).

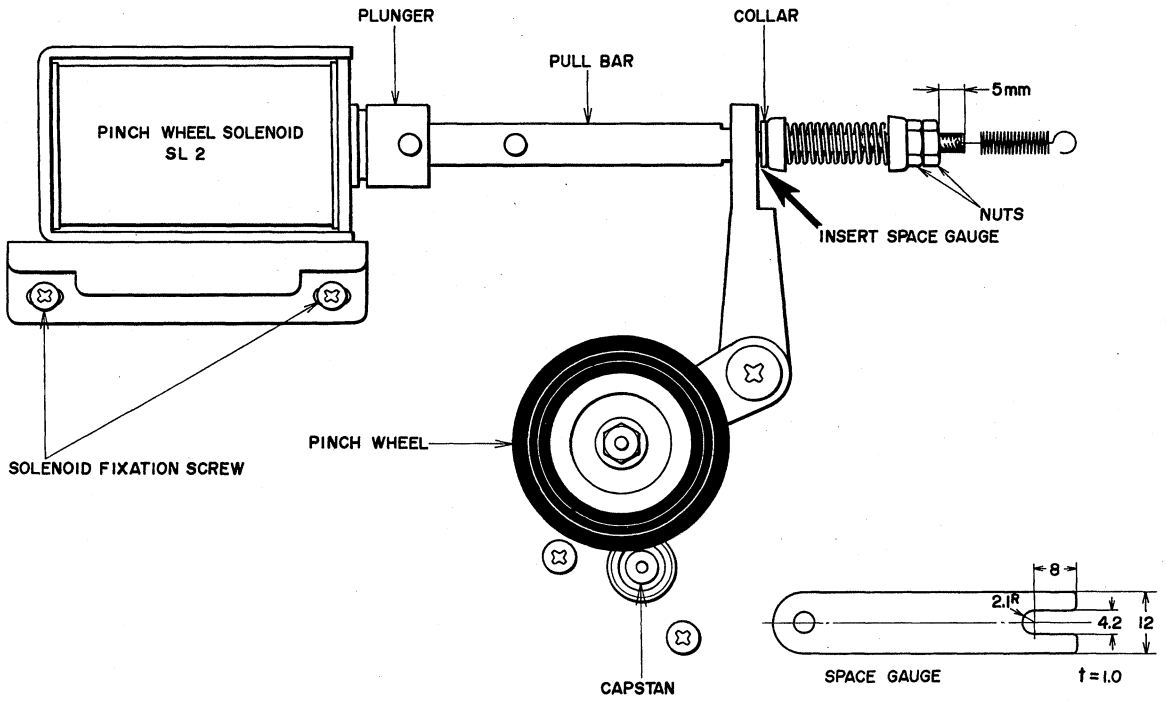

PLUNGER
COLLAR
PULL BAR
5mm
PINCH WHEEL SOLENOID
SL 2
NUTS
INSERT SPACE GAUGE
PINCH WHEEL
SOLENOID FIXATION SCREW
CAPSTAN
8
2.1R
4.2
12
SPACE GAUGE
t=1.0

Fig. 12

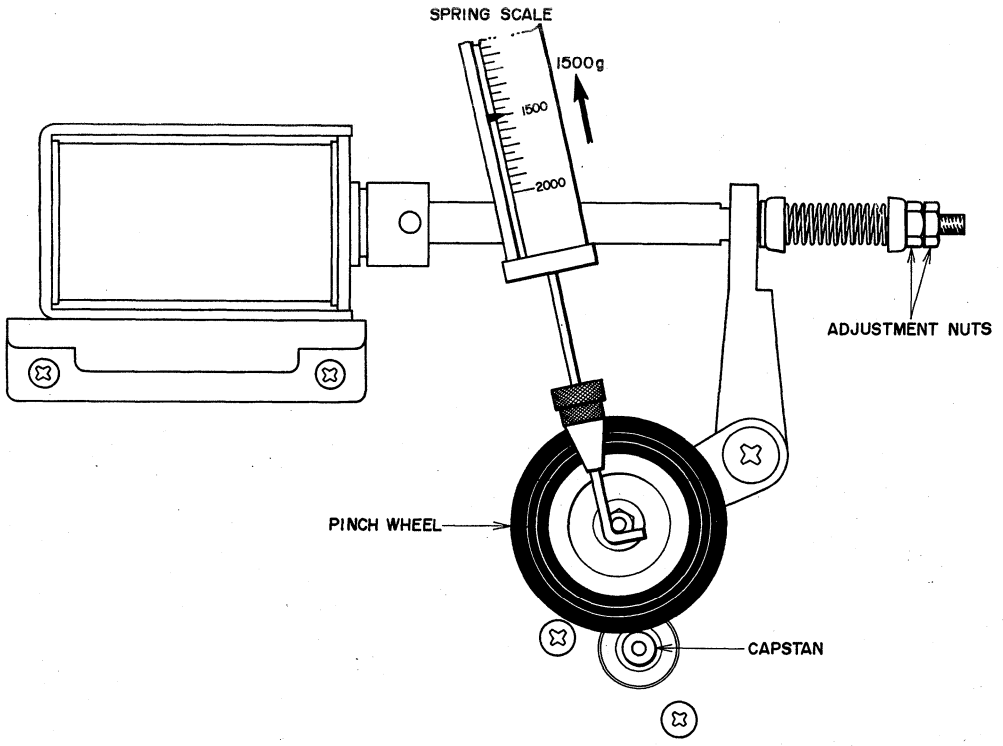

SPRING SCALE
1500g
1500
2000
ADJUSTMENT NUTS
PINCH WHEEL
CAPSTAN

Fig. 13

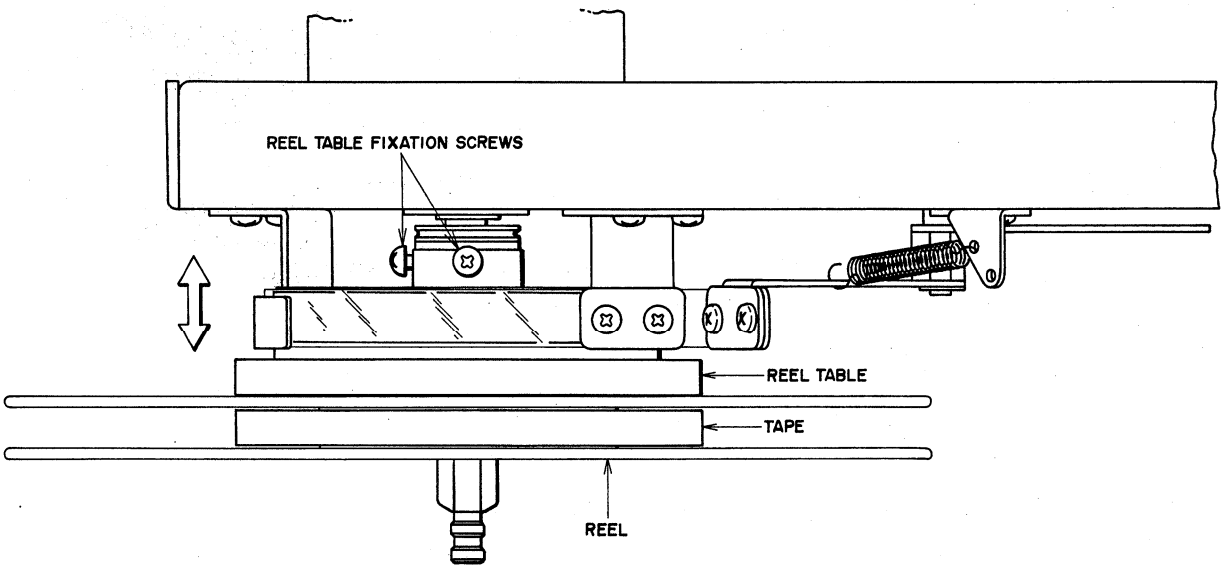


Fig. 14

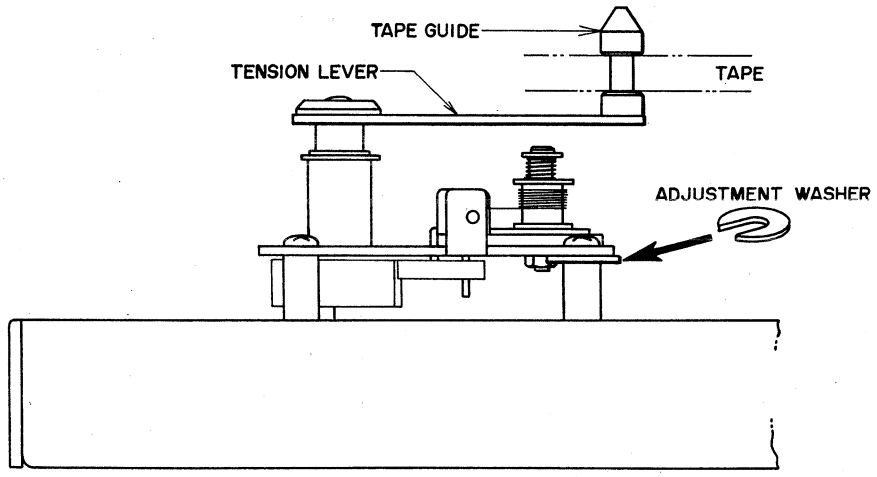


Fig. 15

4. PINCH WHEEL SOLENOID POSITION ADJUSTMENT (Refer to Fig. 12)

1) Set nut so that the screw part of the pull bar protrudes 5 mm from the nut.
2) Insert a space gauge between the collar and pull bar, and fix solenoid at position at which the pinch wheel touches the capstan.

5. PINCH WHEEL PRESSURE ADJUSTMENT (Refer to Fig. 13)

As shown in Fig. 13, pull out and return pinch wheel with a spring scale, reading the spring scale indication when the pinch wheel touches the capstan. Adjust pinch wheel pressure with adjustment nut to obtain a 1.5 kg. spring scale indication at pinch wheel and capstan contact.

6. REEL TABLE HEIGHT ADJUSTMENT (Refer to Fig. 14)

Properly load a tape, and adjust the reel table as indicated by the arrow mark in the figure so that the tape winds in the center of the reel at F.Fwd and Rwd modes. Fix at best position.
Also tape should wind in center of reel regardless of type of reel used.

7. TENSION LEVER HEIGHT ADJUSTMENT (Refer to Fig. 15)

Properly load a tape and set machine to Fwd mode. Adjust tension lever height with a horse-shoe washer so that the tape runs on the center of the tape guide.

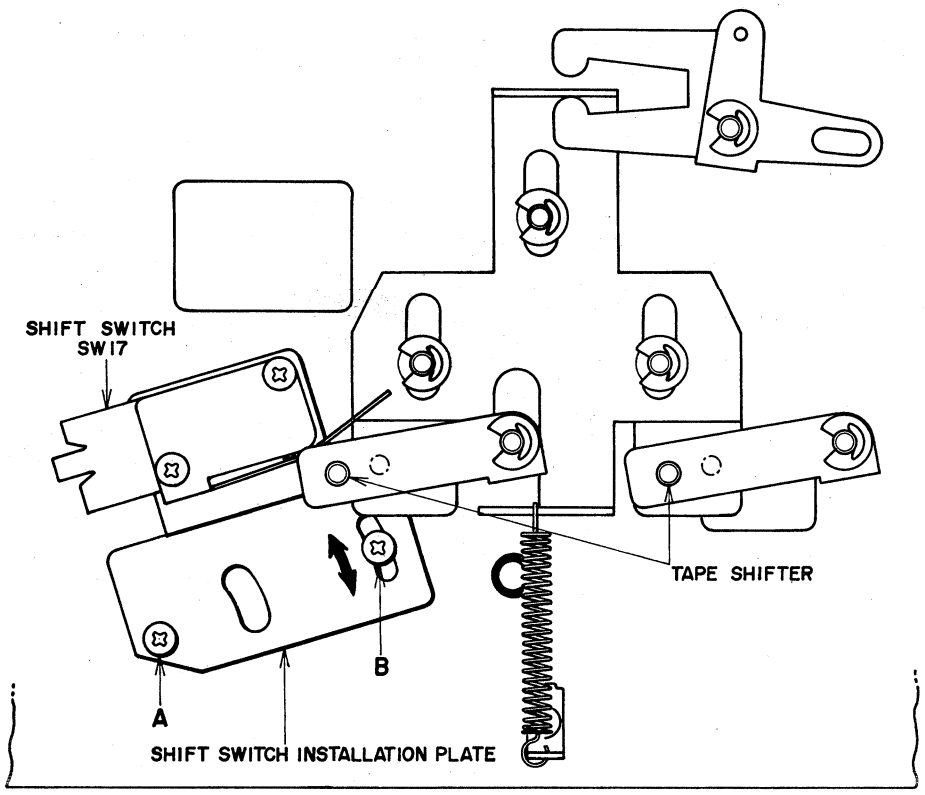


Fig. 16

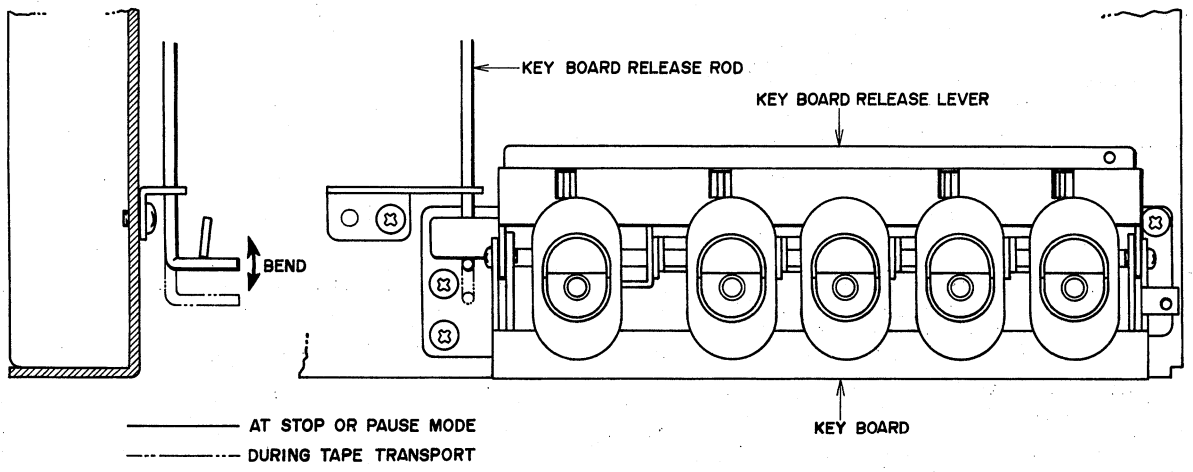


Fig. 17

8. SHIFT SWITCH POSITION ADJUSTMENT (Refer to Fig. 16)

As shown in Fig. 16, adjust by moving shift switch installation plate as shown by the arrow mark in figure so that when the machine is set to pause mode, the shift switch is not turned off.
(Shift switch installation plate can be moved after loosening screws A, B)

9. KEYBOARD RELEASE ROD ADJUSTMENT (Refer to Fig. 17)

With the power switch turned off, adjust by bending release rod so that the keys do not lock at any mode.

V. HEAD ADJUSTMENT

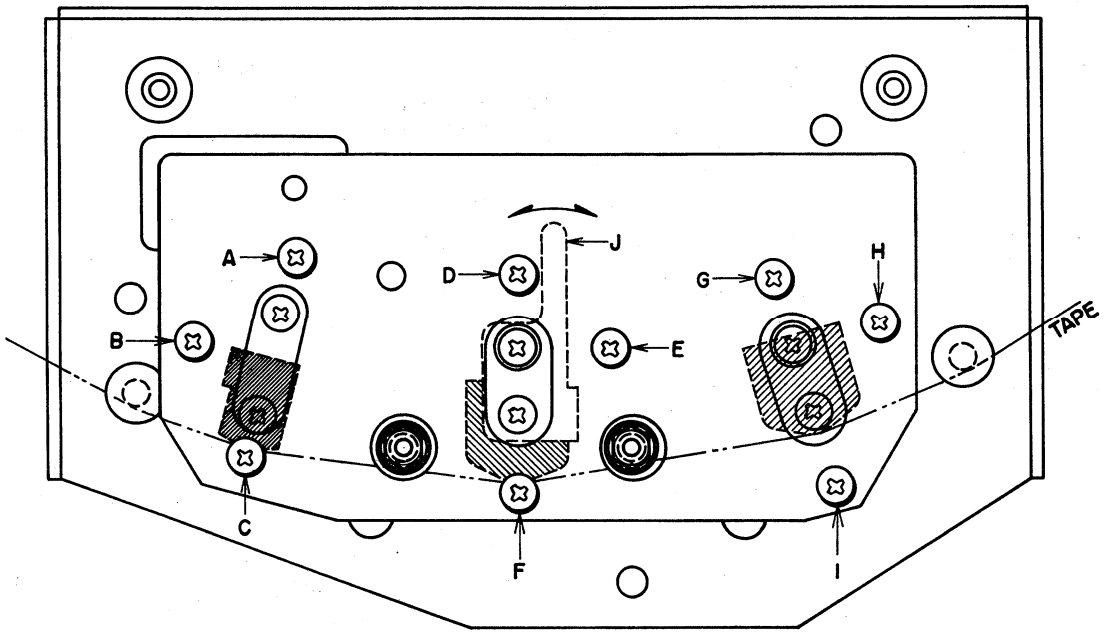


Fig. 18

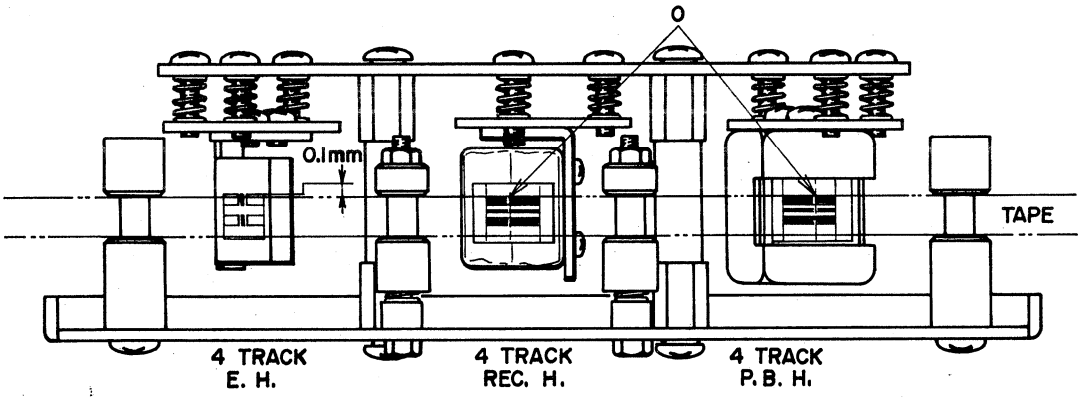


Fig. 19

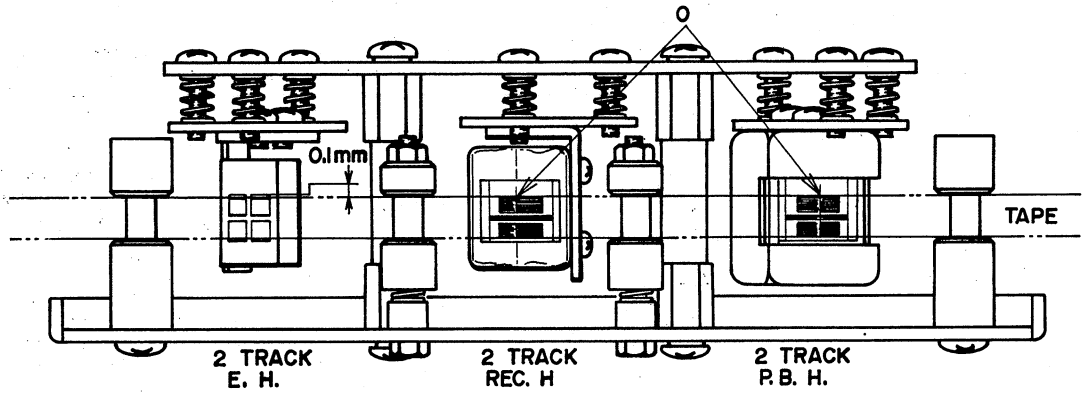


Fig. 20

1. MODELS: GX-600D, GX-600DB

(Refer to Figs. 18, 19)

Adjustment Item	Test Tape, Supply Signal	Measuring Instrument and connection point	Mode	Tape Speed	Adjustment Screw	Remarks
ERASE HEAD HEIGHT	Optional		FWD	Optional	(A)(B)(C)	Upper edge of Ch. 1 head core 0.1 mm higher than upper edge of tape.
RECORDING HEAD HEIGHT	Optional		FWD	Optional	(D)(E)(F)	Upper edge of Ch. 1 head core same height as upper edge of tape
PLAYBACK HEAD HEIGHT	Optional		FWD	Optional	(G)(H) (I)	Upper edge of Ch. 1 head core same height as upper edge of tape
PLAYBACK HEAD AZIMUTH ALIGNMENT	8,000 Hz. 3-3/4 ips.	High Sensitivity V.T.V.M. to Line output	FWD	7-1/2 ips. (19 cm/sec)	(H)	Maximum output on both channels
RECORDING HEAD AZIMUTH ALIGNMENT	15,000 Hz. -20 dBm	Audio Frequency Oscillator to Line input, High Sensitivity V.T.V.M. to Line output	REC	7-1/2 ips. (19 cm/sec)	(E)	Maximum output on both channels.
RECORDING HEAD TAPE CONTACT	15,000 Hz. -20 dBm	Audio Frequency Oscillator to Line input, High Sensitivity V.T.V.M. to Line output	REC	7-1/2 pis. (19 cm/sec)	(J)	No change in output when tension is applied to supply reel side

Chart 1

2. MODEL: GX-600D · PRO

(Refer to Figs. 18, 20)

Adjustment Item	Test Tape, Supply Signal	Measuring Instrument and connection point	Mode	Tape Speed	Adjustment Screw	Remarks
ERASE HEAD HEIGHT	Optional		FWD	Optional	(A)(B)(C)	Protruding Top & Bottom Edges of Head core Equidistant (Tape runs on exact center of Head core)
RECORDING HEAD HEIGHT	Optional		FWD	Optional	(D)(E)(F)	Upper edge of Ch. 1 head core same height as upper edge of tape
PLAYBACK HEAD HEIGHT	Optional		FWD	Optional	(G)(H)(I)	Upper edge of Ch. 1 head core same height as upper edge of tape
PLAYBACK HEAD AZIMUTH ALIGNEMENT	8,000 Hz. 3-3/4 ips.	High Sensitivity V.T.V.M to Line output	FWD	7-1/2 ips. (19 cm/sec)	(H)	Maximum output on both channels
RECORDING HEAD AZIMUTH ALIGNMENT	15,000 Hz. -20 dBm	Audio Frequency Oscillator to Line input, High Sensitivity V.T.V.M. to Line output	REC	7-1/2 ips. (19 cm/sec)	(E)	Maximum output on both channels
RECORDING HEAD TAPE CONTACT	15,000 Hz. -20 dBm	Audio Frequency Oscillator to Line input, High Sensitivity V.T.V.M. to Line output	REC	7-1/2 ips. (19 cm/sec)	(J)	No change in output when tension is applied to supply reel side.

Chart 2

VI. AMPLIFIER SYSTEM ADJUSTMENT

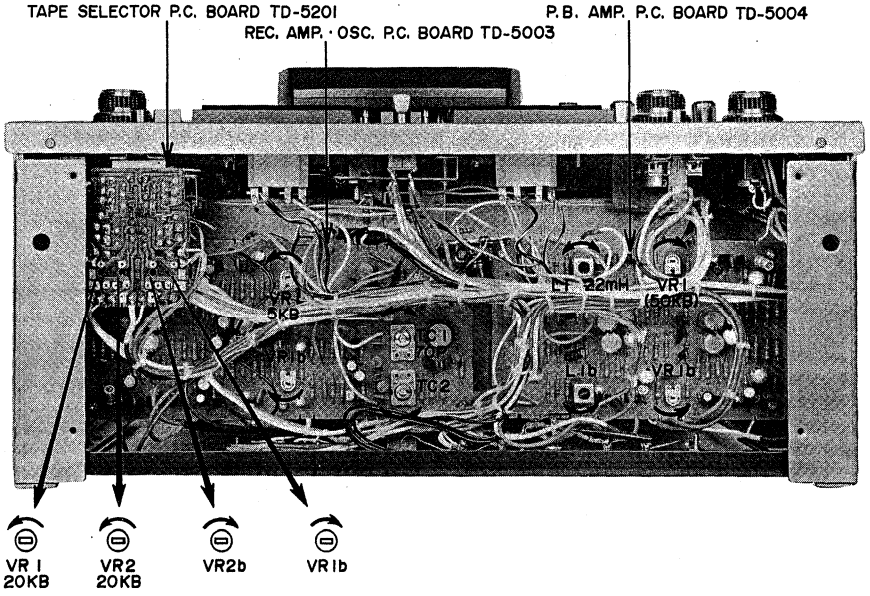


Fig. 21

1. PLAYBACK LEVEL ADJUSTMENT

1) Set Speed Selector to 7-1/2 ips. (19 cm/sec)
2) Set Monitor Switch to TAPE position and output volumes to maximum.
3) Playback a 7-1/2 ips. 700 Hz "0" VU recorded test tape.
4) Adjust semi-fixed resistors VR1 50 kB (left ch.) and VR1b 50 kB (right ch.) of P.B. Amp. P.C. Board (Fig. 21) to obtain a 0 dBm ("0"VU) line output level on both channels.

2. HIGH RANGE DEVIATION CHECK

Check to confirm that the difference in output level between left and right channel is within 3 dB when a 3-3/4 ips. 8,000 Hz ampex alignment test tape is played back at 7-1/2 ips.
If high range deviation exceeds 3 dB make head azimuth alignment adjustments again.

3. RECORDING LEVEL ADJUSTMENT (Models GX-600D, GX-600D · PRO only)

1) Set Speed Selector to 7-1/2 ips. (19 cm/sec)
2) Set Monitor Switch to TAPE position and output volumes to maximum.
3) Set Tape Selector to LOW NOISE position and load a Scotch #211 blank tape.
4) Set tape deck to recording mode and supply a 1,000 Hz sine wave signal to the line input from an Audio frequency oscillator.
5) Adjust line recording level volumes or input attenuator so that the line output level of both channels is 0 dBm ("0" VU).
6) Set Monitor Switch to SOURCE position.
7) Adjust semi-fixed resistors VR1 5 kB (left ch.) and VR1b 5 kB (right ch.) of Recording Amp. OSC., P.C. Board (Fig. 21) to obtain a 0 dBm ("0" VU) line output level on both channels.

4. RECORDING LEVEL ADJUSTMENT (Model GX-600DB only)

1) Set Speed Selector to 7-1/2 ips. (19 cm/sec)
2) Set Monitor Switch to SOURCE position and set output volumes to maximum.
3) Set Tape Selector to LOW NOISE position and load a Scotch #211 blank tape.
4) Supply a 1,000 Hz sine wave signal to the line input from an Audio frequency oscillator.
5) Adjust line recording level volume or input attenuator to obtain a 0 dBm ("0" VU) line output level on both channels.
6) Set Monitor Switch to TAPE position and set tape deck to recording mode.
7) Adjust semi-fixed resistors VR1 20 kB (left channel) and VR1b 20 kB (right channel) of tape selector P.C. Board (Fig. 21) to obtain a 0 dBm ("0" VU) line output level on both channels.

NOTE: 1) In the case of wide range tape, set Tape Selector to WIDE RANGE position and use AKAI S.R.T. tape and adjust semi-fixed resistors VR2 20 kB (left ch) and VR2b 20 kB (right ch) of tape selector P.C. Board (Fig. 21) in the same way as outlined in article 4.

2) In the case of Model GX-600D or GX-600D · PRO, the recording level adjustment semi-fixed resistors are on the Recording Amp. P.C. Board, and in the case of GX-600DB, the recording level adjustment semi-fixed resistors are on the tape selector P.C. Board.

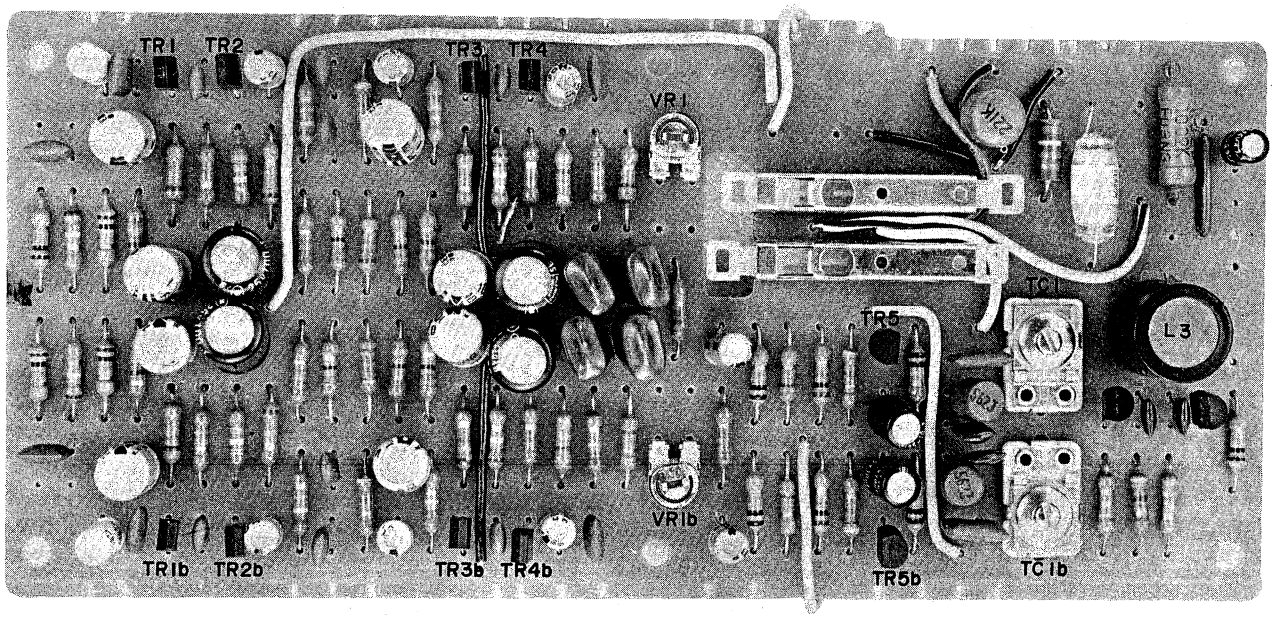


Fig. 22 REC. AMP./OSC. P.C. BOARD TD-5003 (Front Side)

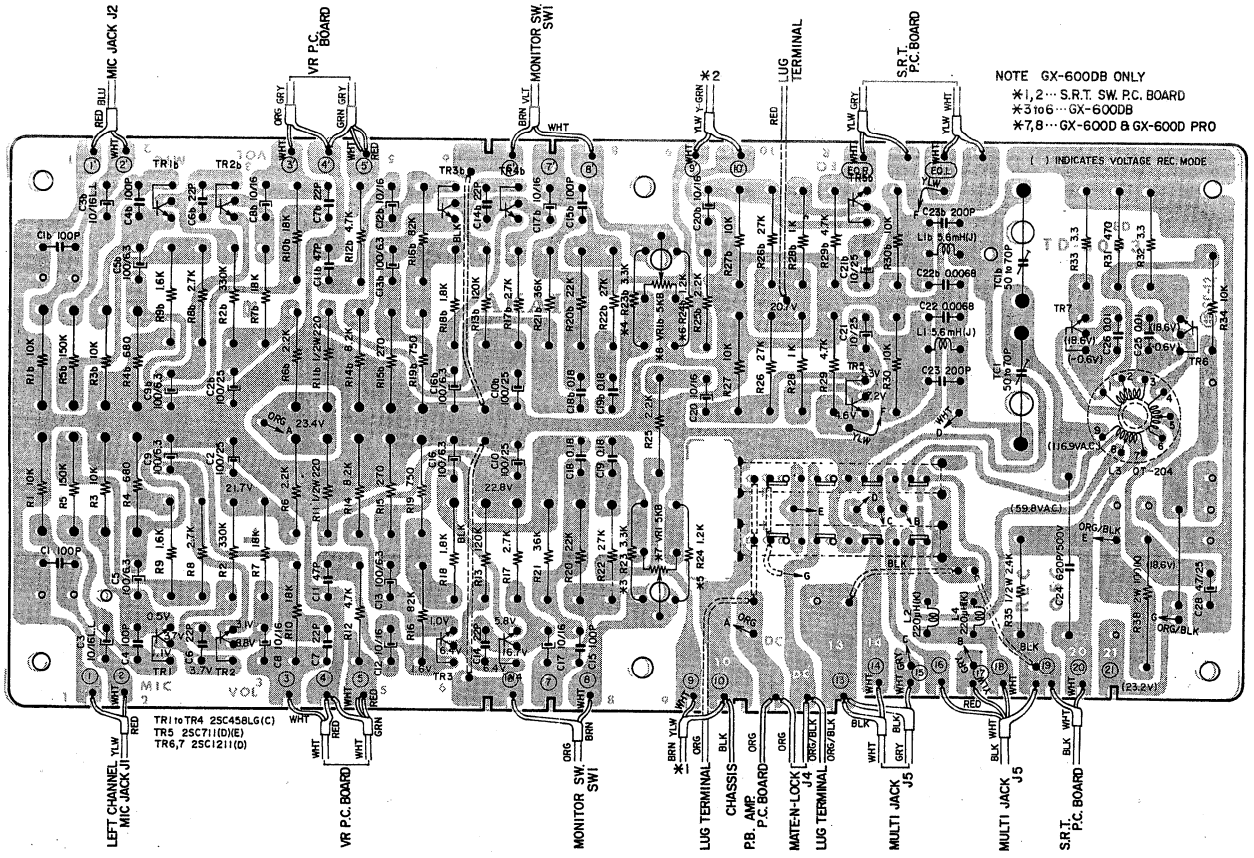


Fig. 23 REC. AMP./OSC. P.C. BOARD TD-5003 (Reverse Side)

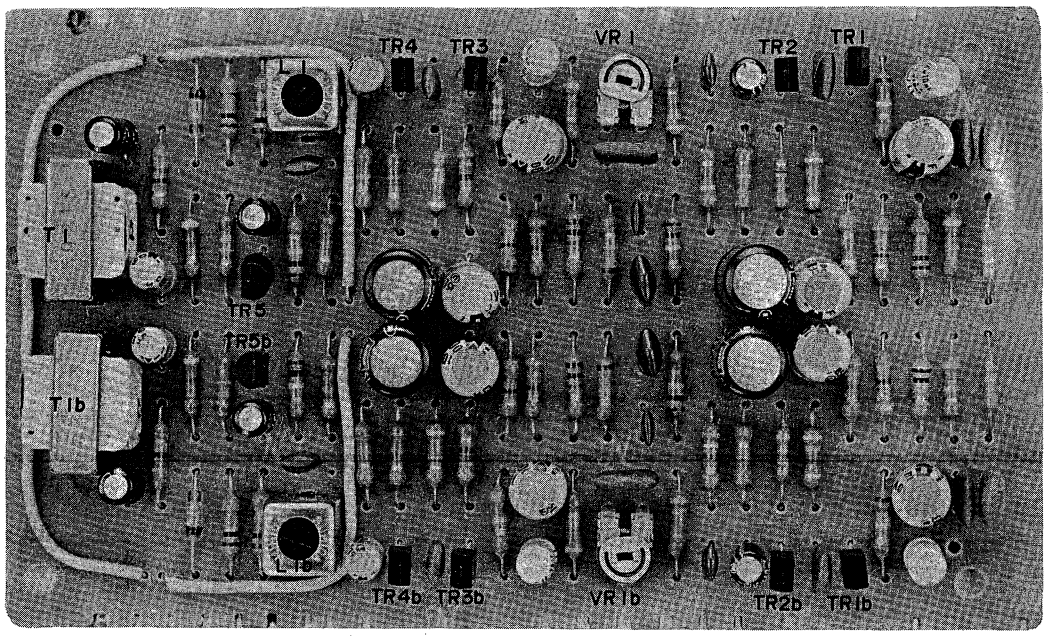


Fig. 24 PB. AMP. P.C. BOARD TD-5004 (Front Side)

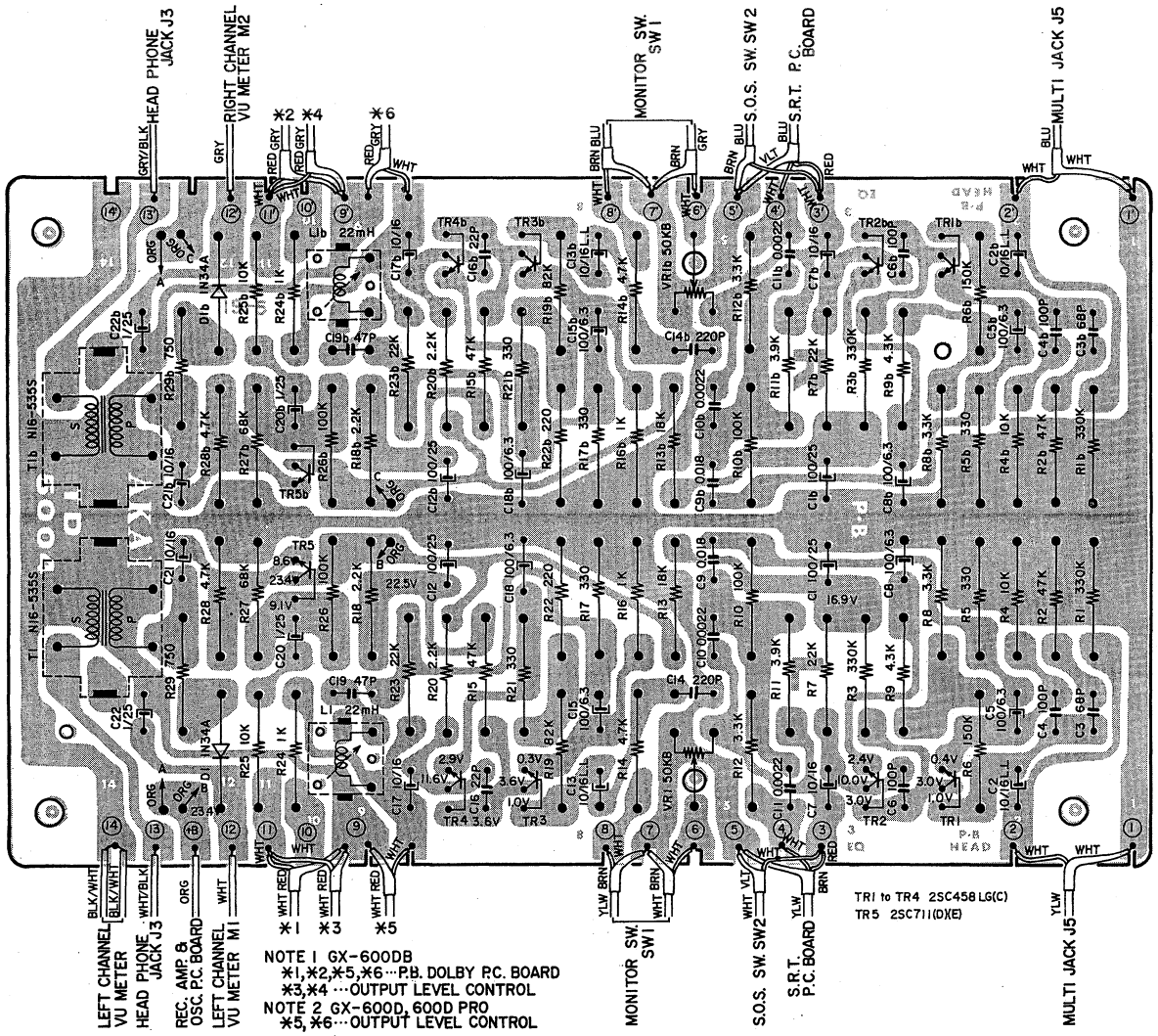


Fig. 25 PB. AMP. P.C. BOARD TD-5004 (Reverse Side)

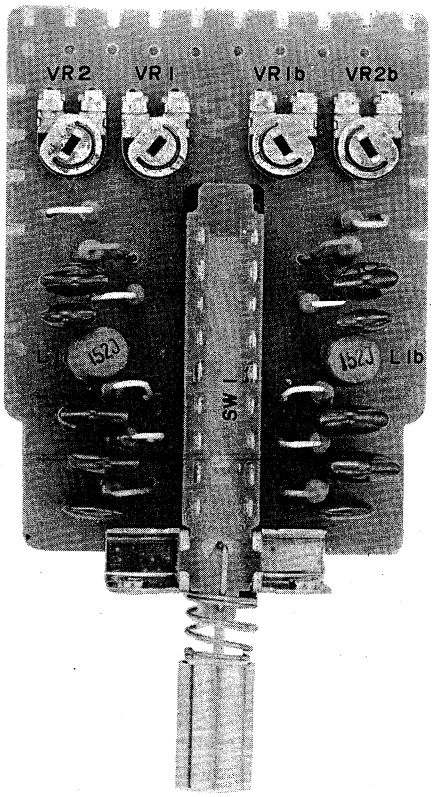


Fig. 26 TAPE SELECTOR P.C. BOARD
TD-5201 (Front Side)

5. FREQUENCY RESPONSE ADJUSTMENT
(Recording Bias Voltage Adjustment)

1) Set Speed Selector to 3-3/4 ips. (9.5 cm/sec.).
2) Set Monitor Switch to TAPE and set output volumes to maximum.
3) Set Tape Selector to LOW NOISE position and load a scotch #211 blank tape.
4) Set tape deck to recording mode and supply a 1,000 Hz sine wave signal to the line input from an audio frequency oscillator and adjust input attenuator to obtain a -20 dBm (-20 VU) line output level.
5) Switch the oscillation frequency of the audio frequency oscillator to 10,000 Hz from the condition outlined in item 5-4)
6) Adjust trimmer condensers TC1 70P (left ch) and TC2 70P (right ch) of Recording Amp. OSC., P.C. Board (Fig. 21) to obtain the same level on both channels at both of the two frequencies mentioned in items 5-4) and 5-5).

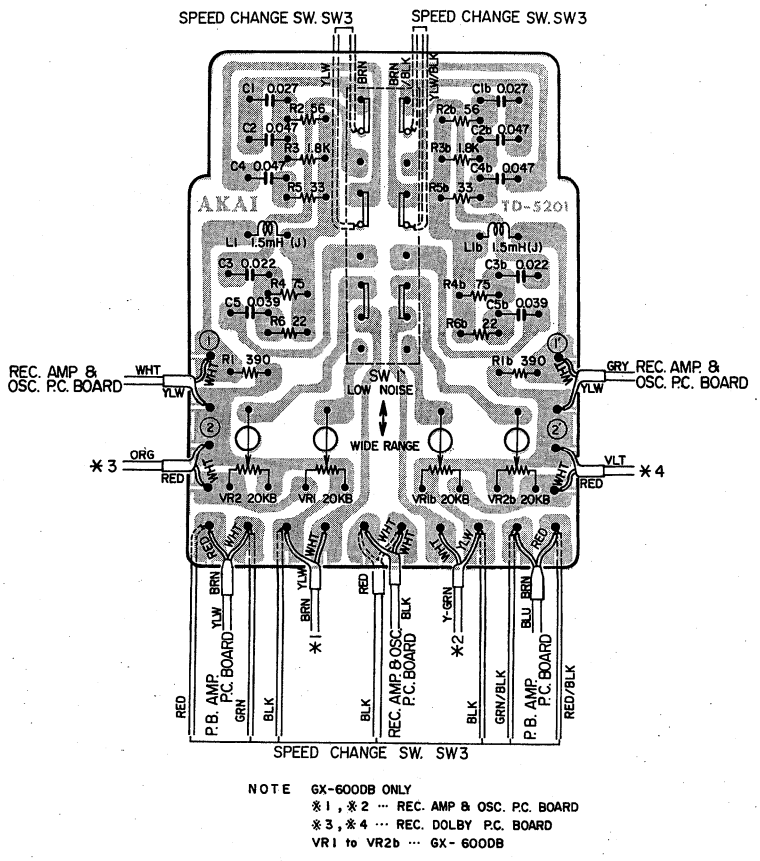


Fig. 27 TAPE SELECTOR P.C. BOARD TD-5201 (Reverse Side)

6. DOLBY N.R. AMP. P.C. BOARD ADJUSTMENT (Model GX-600DB only)

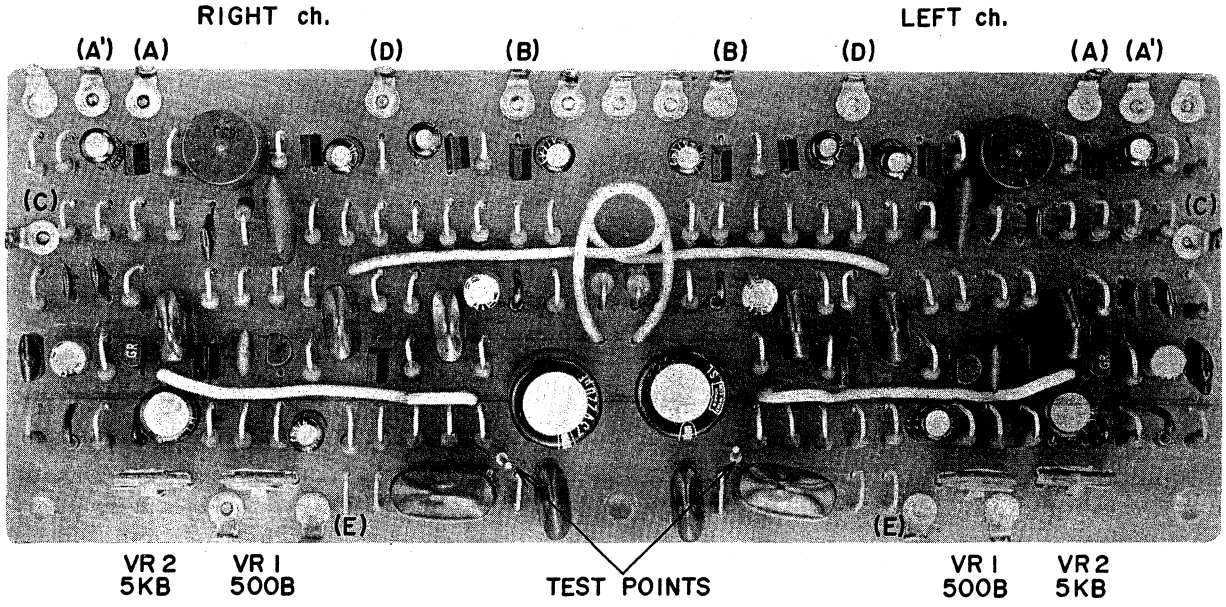


Fig. 28 DOLBY N.R. P.C. BOARD TD-5301 (Front Side)

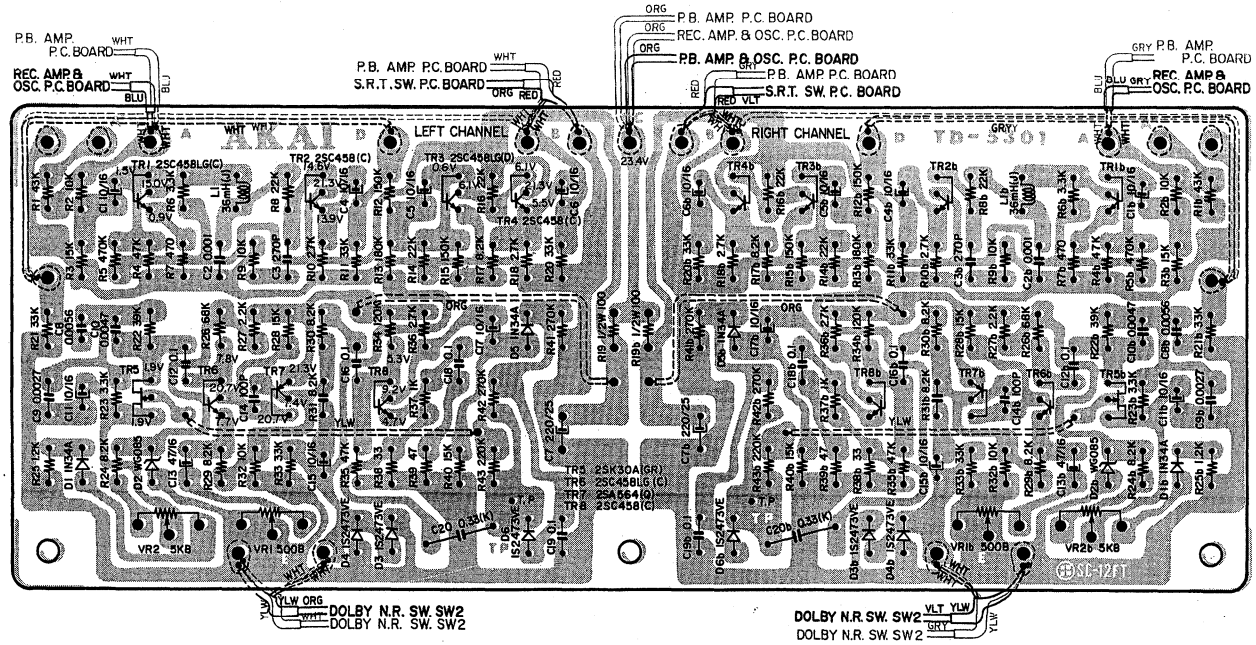


Fig. 29 DOLBY N.R. P.C. BOARD TD-5301 (Reverse Side)

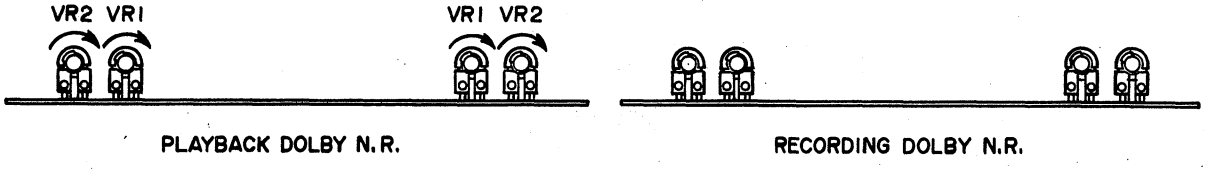


Fig. 30

NOTE: The same P.C. Boards are utilized for Recording Dolby NR and Playback Dolby NR. The Recording Dolby NR Amp. P.C. Board is located on the Recording Amp. OSC., P.C. Board, and the Playback Dolby NR Amp. P.C. Board is located on the Playback Amp. P.C. Board. Adjust left and right channels respectively.

(1) RECORDING DOLBY NR CIRCUIT ADJUSTMENT

Disconnect the wire connected to Dolby circuit input/output terminals (A) and (B). Connect an Audio frequency oscillator to terminal (A) and connect a high sensitivity V.T.V.M. to terminal (B).

1) Turn semi-fixed resistors VR1 500B and VR2 5 kB fully clockwise (Fig. 30).
2) Ground test points (Fig. 28).
3) Set Dolby Switch to OFF position.
4) Supply a 5 kHz, -10 dBm signal which has been verified with a frequency counter from the audio frequency oscillator and confirm that at this time the indication of the high sensitivity V.T.V.M. connected to terminal (B) is 0 dBm.
5) Next, reduce the output of the audio frequency oscillator by -30.5 dB from the condition outlined in item 1-4) (5 kHz -40.5 dB) and at this time confirm that the indication of the high sensitivity V.T.V.M. connected to terminal (B) is -30.5 dB.
6) Set the Dolby Switch to ON position and adjust semi-fixed resistor VR1 500B to obtain a -20.5 dB indication on the high sensitivity V.T.V.M. connected to terminal (B).
7) Next, disconnect ground wire from test points (grounded in item 1-2) and at this time adjust semi-fixed resistor VR2 5 kB to obtain a -22.5 dB indication on the high sensitivity V.T.V.M. connected to terminal (B).

(2) PLAYBACK DOLBY NR CIRCUIT ADJUSTMENT

This adjustment is carried out in essentially the same way as the Recording Dolby Circuit adjustment. Disconnect the wire connected to input/output terminals (A) and (B), connect an audio frequency oscillator to terminal (A), and connect a high sensitivity V.T.V.M. to terminal (B). Turn semi-fixed resistors VR1 500 B and VR2 5 kB fully clockwise, and ground test points.

1) Set Dolby Switch to OFF position and supply a 5 kHz, -10 dBm signal which has been verified with a frequency counter from the Audio frequency oscillator. Confirm that the high sensitivity V.T.V.M. indication at this time is 0 dBm. Next, lower the oscillator output by -22.5 dB and confirm that the high sensitivity V.T.V.M. indication is -22.5 dB.
2) Set Dolby Switch to ON position and at this time adjust semi-fixed resistor VR1 500B to obtain a -32.5 dB high sensitivity V.T.V.M. indication. Next, disconnect ground wire from test points and adjust semi-fixed resistor VR2 5 kB to obtain a -30.5 dB indication.

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VII. OPERATING PRINCIPALS OF DOLBY NR CIRCUIT

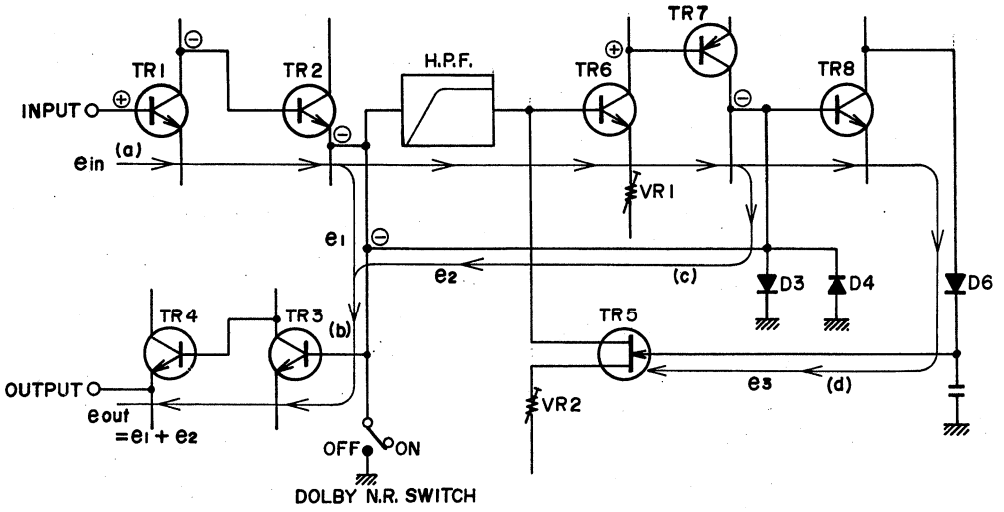


Fig. 31 Recording Dolby NR diagram

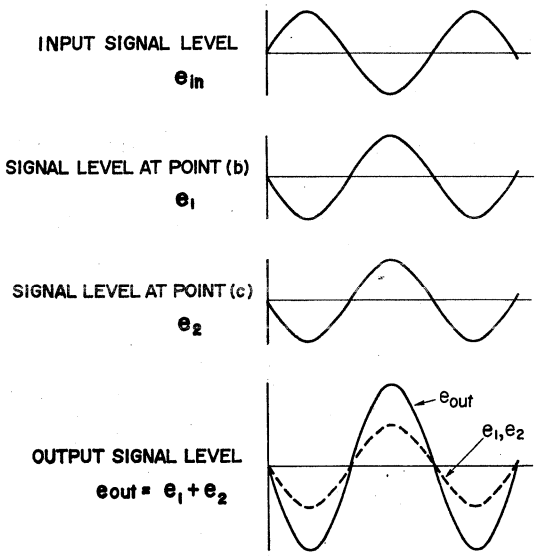


Fig. 32 Level and Phase of each point at individual frequency.

1. RECORDING DOLBY NR (Figs. 31, 32)

In figure 31, the Input Signal e in passes TR1 ~ TR4 and becomes the output signal. The signal from TR2 passes the High Pass Filter (H.P.F.) and is amplified at TR6, TR7. At this time, TR6 signal is controlled by FET (field effect transistor) TR5 gate D.C. bias and the signal from TR7 is varied by means of Diodes D3, D4 characteristics and is emitted as e_2. This output signal e_2 is inphased with TR2 output signal and TR4 output becomes the dolbyized output signal e out.

Accordingly if input signal level e in is small, because FET TR5 becomes an electronic attenuator with a certain impedance value, the output signal e_2 from (C) point is attenuated by H.P.F. and TR5 and becomes e/k. Then it is amplified at TR6, TR7. With A representing this amplification, e_2 becomes as shown in formula (1) below.

$$e_2 = e/k \cdot A \cdot 1 \ldots\ldots (1)$$

Where 1 is the determined attenuated volume by means of Diode D3, D4 characteristics, if

A.K · 1 = m, formula (1) becomes as shown in formula (2) below:

$$e_2 = m_e \ldots\ldots (2)$$

Because e_2 of formula (2) and TR2 output signal e_1 is composited, this output signal e out becomes as shown in formula (3) below:

$$e \text{ out} = e_1 + e_2 = e_1 + m_e \ldots\ldots (3)$$

In formula (3) above, the relation of e_1 and m_e with regards to the Dolby NR System, is the relation between e out and e_1, i.e., the value of e out is 10 dB higher than e_1. For this reason, at a level of -30 dB lower than the Dolby level, the output signal is 10 dB higher than the more than 400 Hz input signal e in.

Also, if the input signal e in level is high, it is amplified at TR6, current modified at diode D5, and the D.C. voltage at (d) point is also large in proportion to input.

Accordingly, if e_3 becomes large, FET TR5 impedance is reduced and (c) point signal level e^2 gradually becomes smaller. Thus at a level higher than the Dolby level, formula (4) below is applicable:

$$E \text{ out} = e_1 + m_e = e \ldots\ldots (4)$$

$$\because e \gg m_e$$

Consequently, the input and output levels display linear characteristics.

NOTE: H.P.F. (high pass filter)
This filter attenuates an under 400 Hz signal at 18 dB octave.

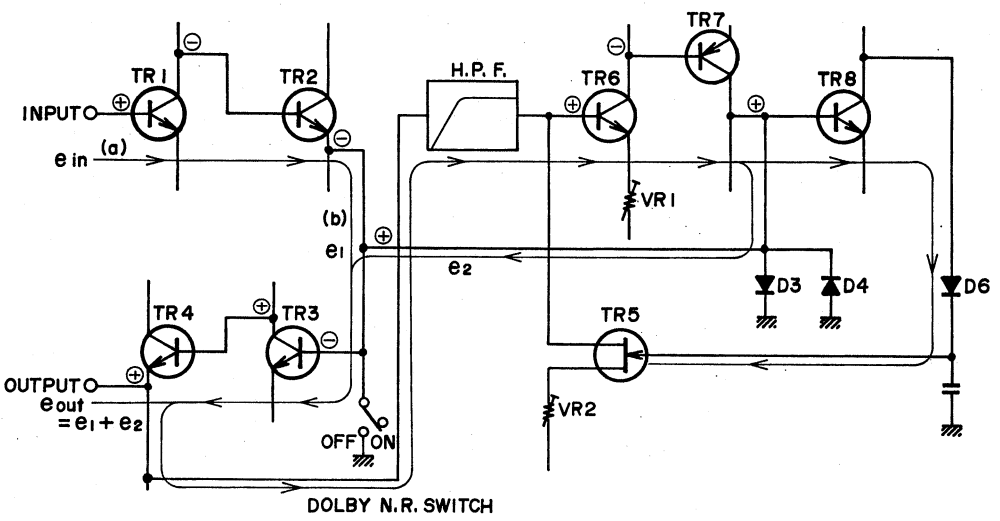


Fig. 33 Playback Dolby NR Diagram

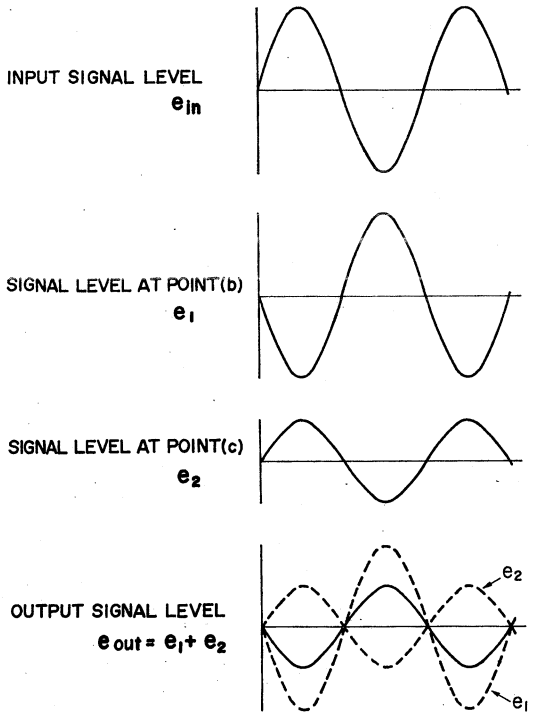


Fig. 34 Level and phase of each point at individual frequency

2. PLAYBACK DOLBY NR (Figs. 33, 34)

In Fig. 33, input signal e in passes TR1 ~ TR4 and becomes the output signal. The signal from TR4 passes H.P.F. and is amplified at TR6, TR7. At this time TR5 signal is controlled by the gate D.C. bias of FET TR5, and TR7 signal is variated by the characteristics of diodes D3, D4 and is emitted as e_2, This output signal e_2 is added as the reverse phase of TR2 output signal and the Dolbylized output signal e out is emitted.

Therefore, the procedure is the same as Recording Dolby NR except that the signal is reverse phased (formula (3))

$$e_o = e + (-e_2) = e + (-m_e)$$

and thus, becomes the exact opposite of Recording Dolby NR.

VIII. DC RESISTANCE OF VARIOUS COILS

The values shown in this chart are average D.C. resistance values.

Designation	Type	D.C. Resistance
CAPSTAN MOTOR	HM2-16MC	Between PNK-RED 130Ω Between PNK-BRN 180Ω Between GRN-GRY 360Ω Between GRN-YLW 370Ω
REEL MOTOR	24XD-TD	Between RED-BLU 72Ω Between YLW-GRN 160Ω
BRAKE SOLENOID	SDC1064 PHT 48V	300Ω
PINCH WHEEL SOLENOID	1660 THT 3	685Ω
QUICK TENSION RELAY	MY-4-0-US-AD4 D.C.24V	650Ω
HEADPHONE OUTPUT TRANSFORMER	N16-535S	Primary 565Ω±15% Secondary 0.95Ω±15%
OSCILLATOR COIL	OT-204	Between 1 ~ 3 0.3Ω Between 4 ~ 6 0.7Ω Between 7 ~ 9 8.2Ω
4 TRACK ERASE HEAD	E4-260	2.0Ω
FULL TRACK ERASE HEAD	E2-100	2.5Ω
4 TRACK RECORDING HEAD	R4-200	8Ω
2 TRACK RECORDING HEAD	R2-100	8Ω
4 TRACK PLAYBACK HEAD	P4-202	268Ω
2 TRACK PLAYBACK HEAD	P2-100	250Ω

Chart 3

IX. TRANSPORT MECHANISM

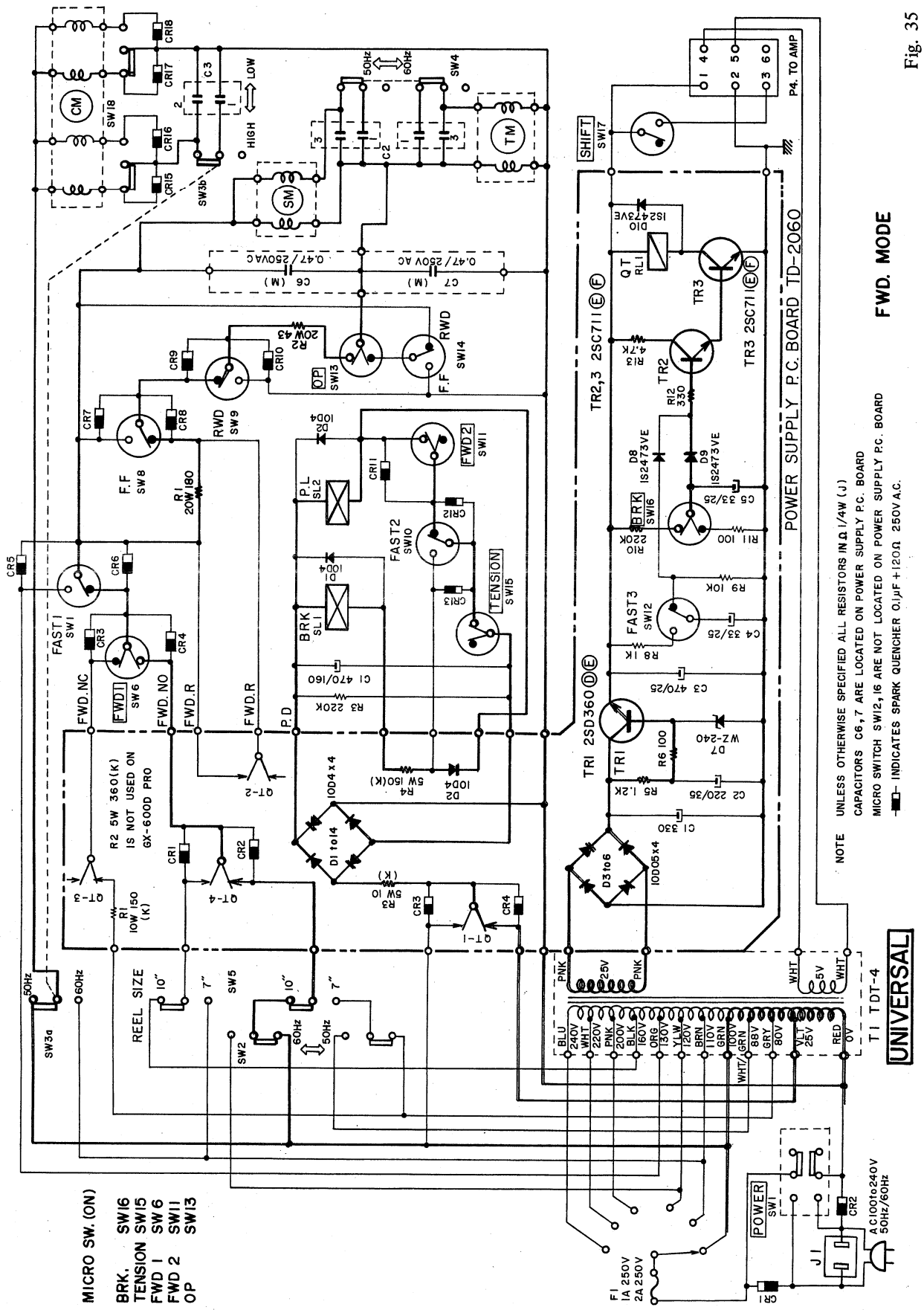
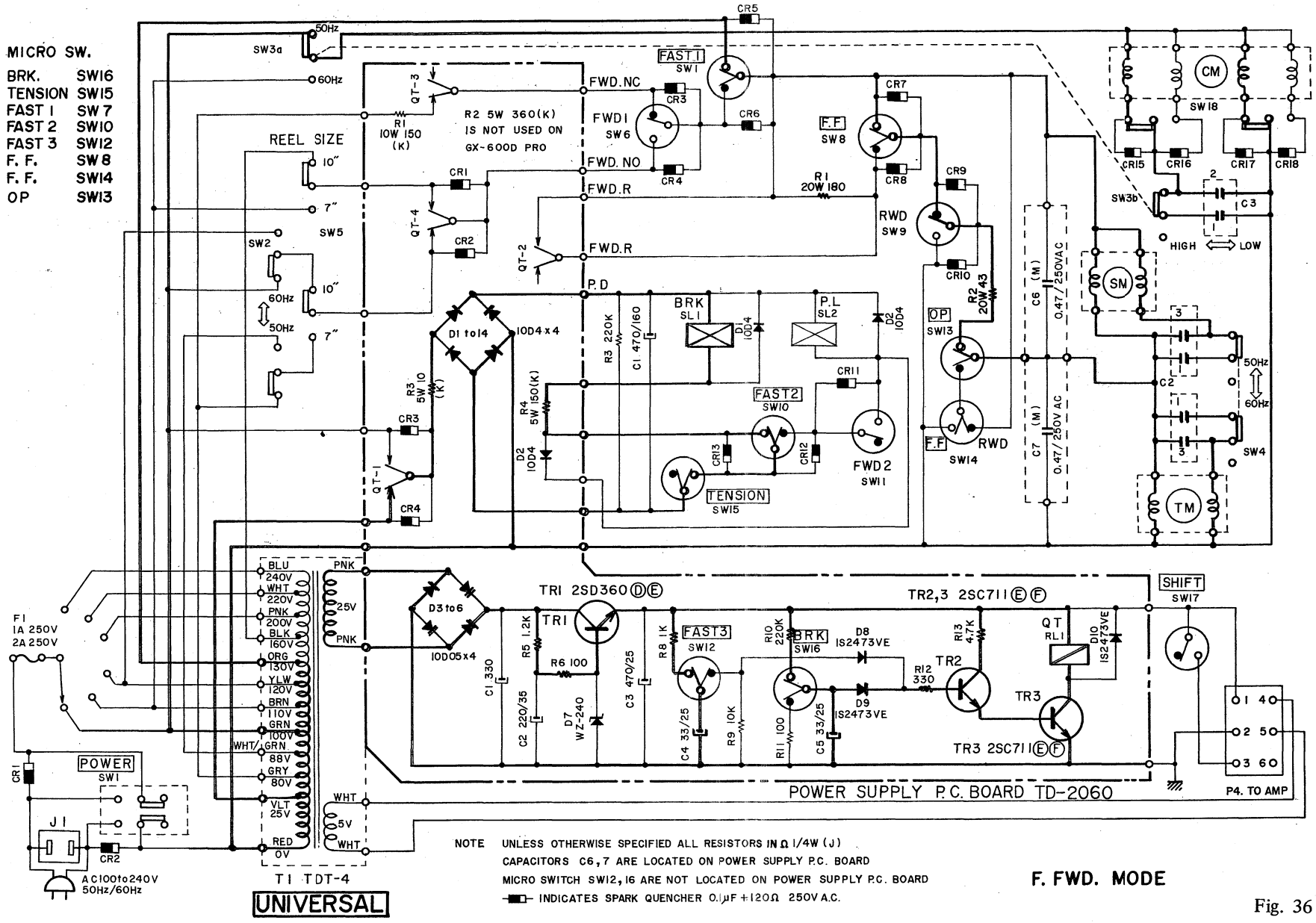
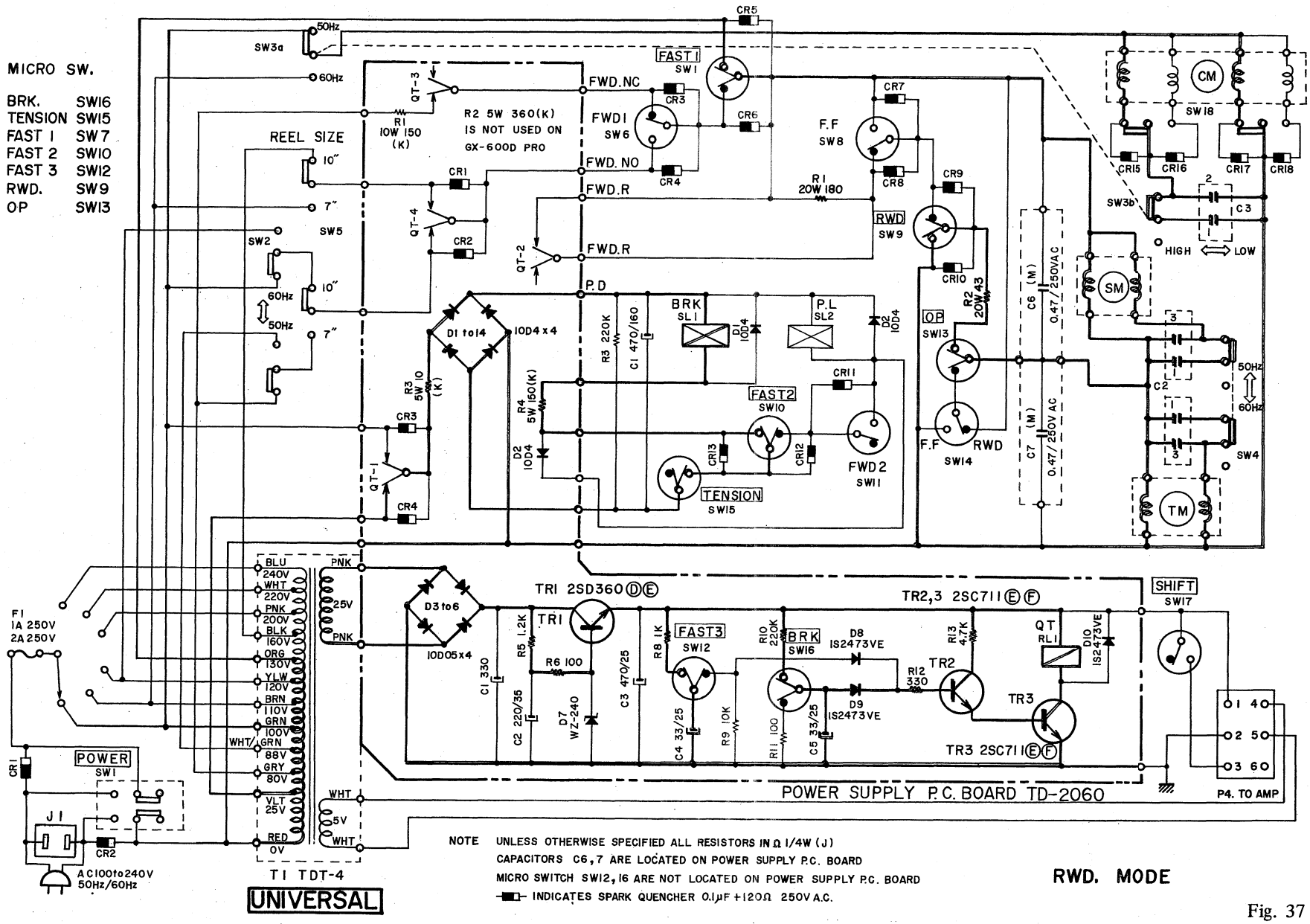


Fig. 35



F. FWD. MODE

Fig. 36



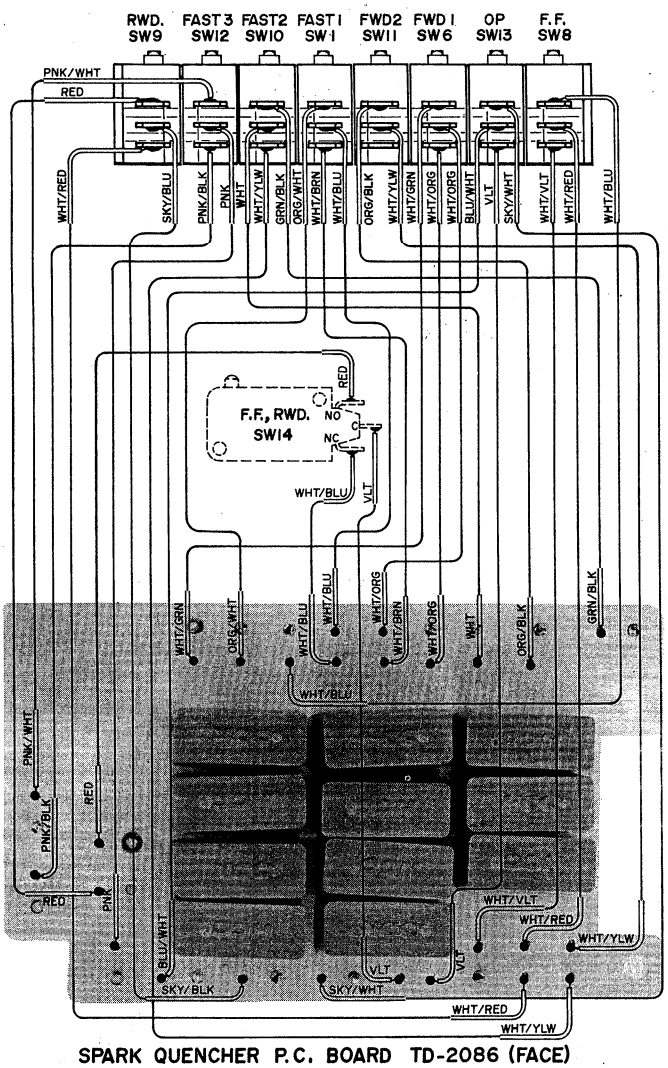
NOTE UNLESS OTHERWISE SPECIFIED ALL RESISTORS IN Ω 1/4W (J)
CAPACITORS C6,7 ARE LOCATED ON POWER SUPPLY P.C. BOARD
MICRO SWITCH SW12, 16 ARE NOT LOCATED ON POWER SUPPLY P.C. BOARD
INDICATES SPARK QUENCHER 0.1μF +120Ω 250V A.C.

RWD. MODE

Fig. 37

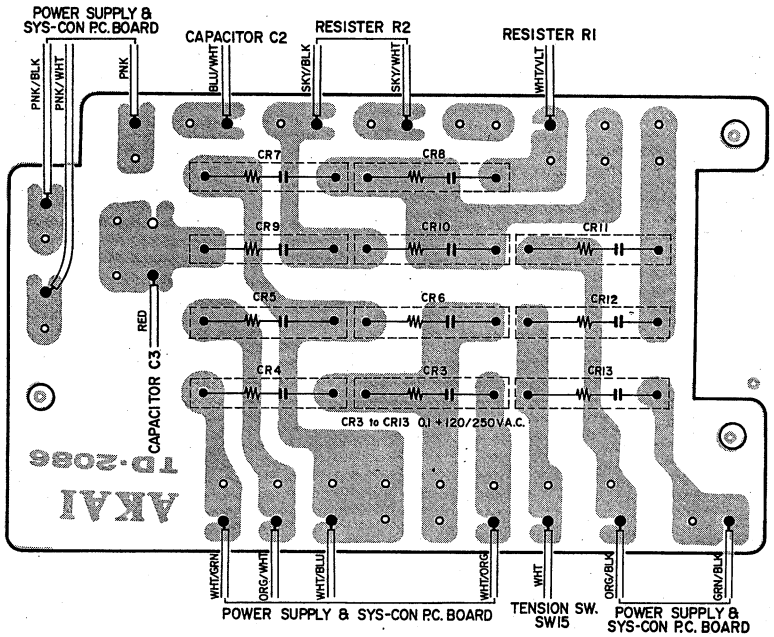
X. COMPOSITE VIEWS OF COMPONENTS

1. SPARK QUENCHER P.C. BOARD (A) TD-2086 (Front Side)

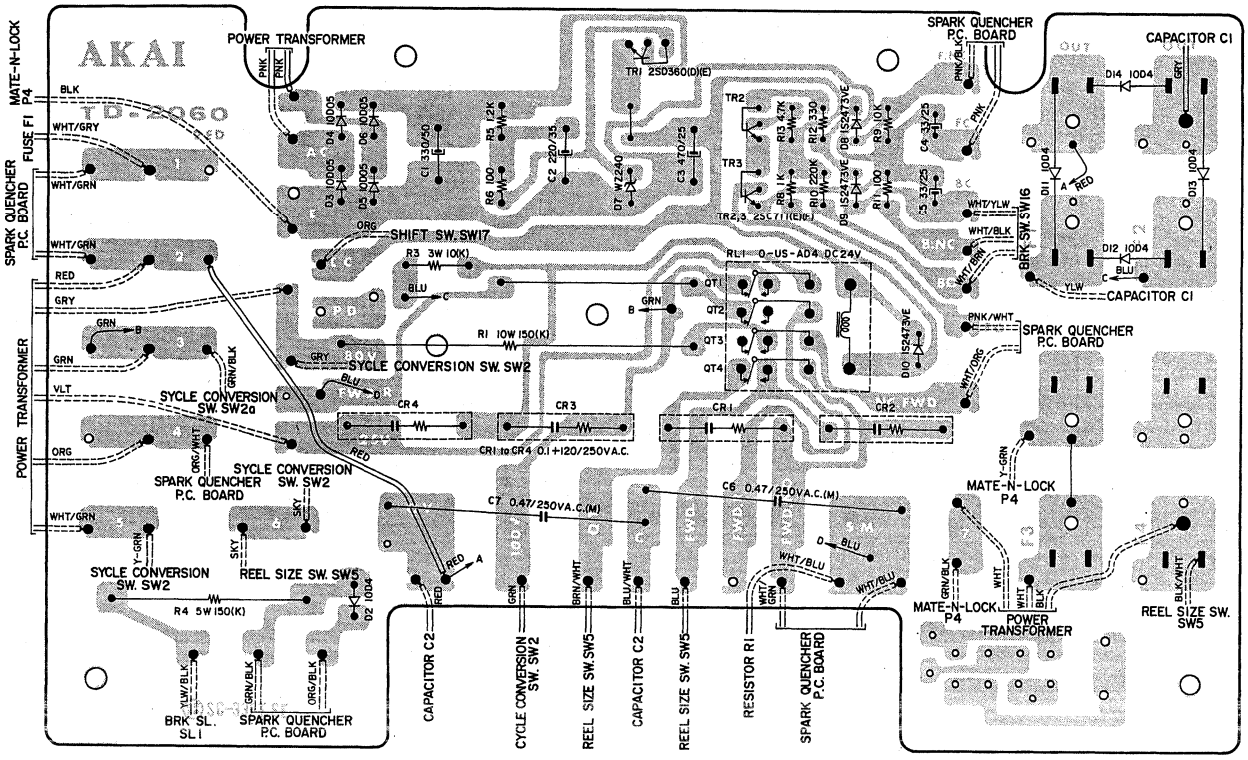


SPARK QUENCHER P.C. BOARD TD-2086 (FACE)

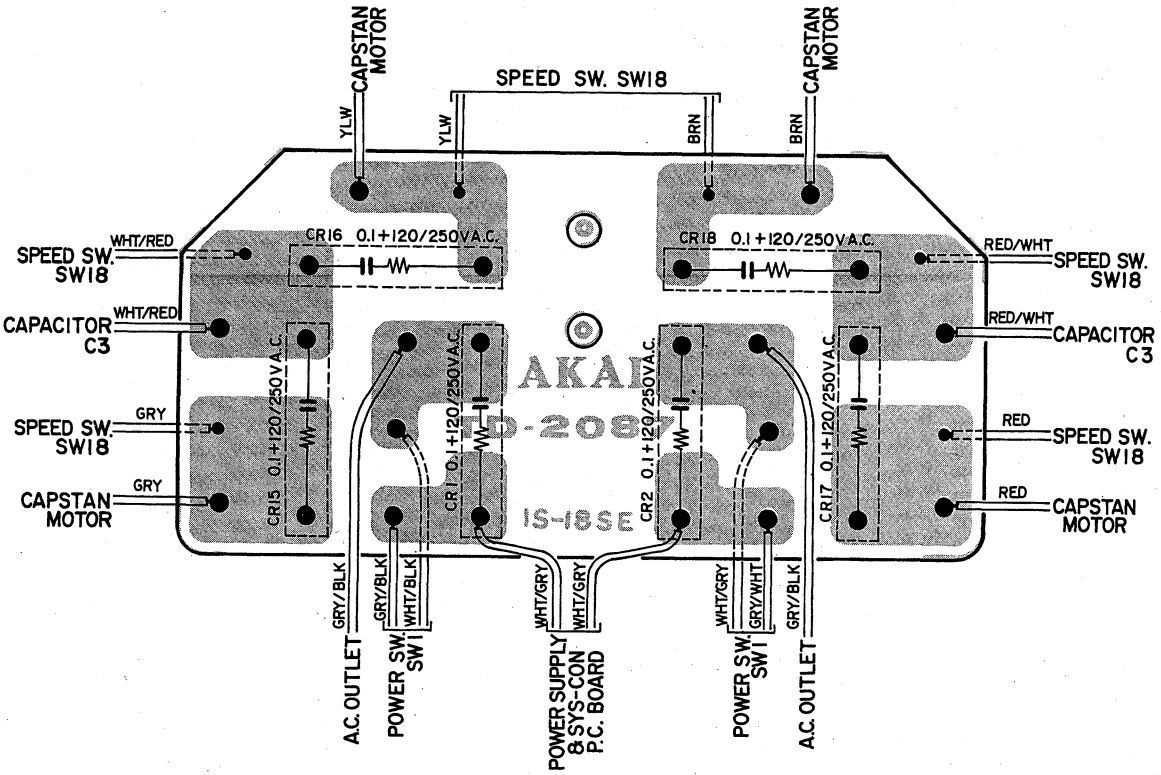
2. SPARK QUENCHER P.C. BOARD (A) TD-2086 (Reverse Side)



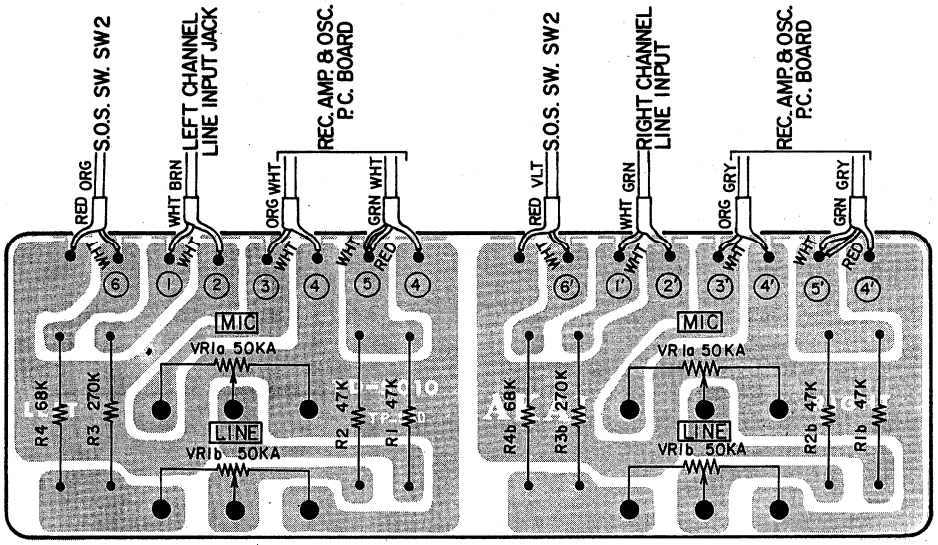
3. POWER SUPPLY & SYS. CON. P.C. BOARD TD-2060



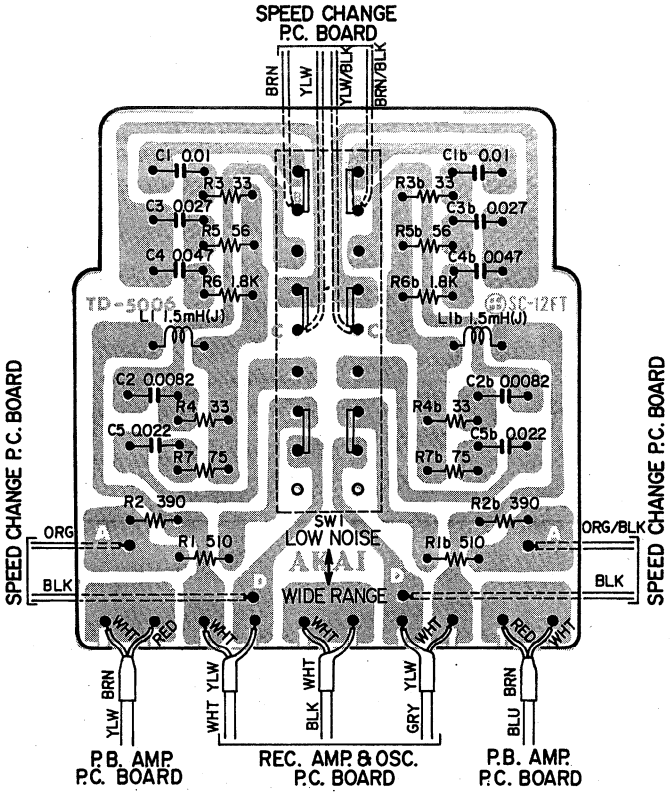
4. SPARK QUENCHER P.C. BOARD (B) TD-2087



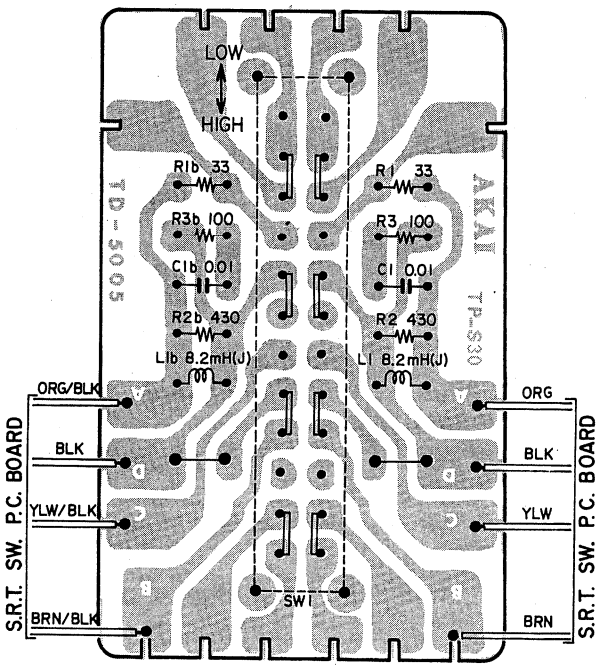
5. VOLUME P.C. BOARD TD-5010



6. SRT SW. P.C. BOARD TD-5006



7. SPEED CHANGE P.C. BOARD TD-5005



SECTION 2

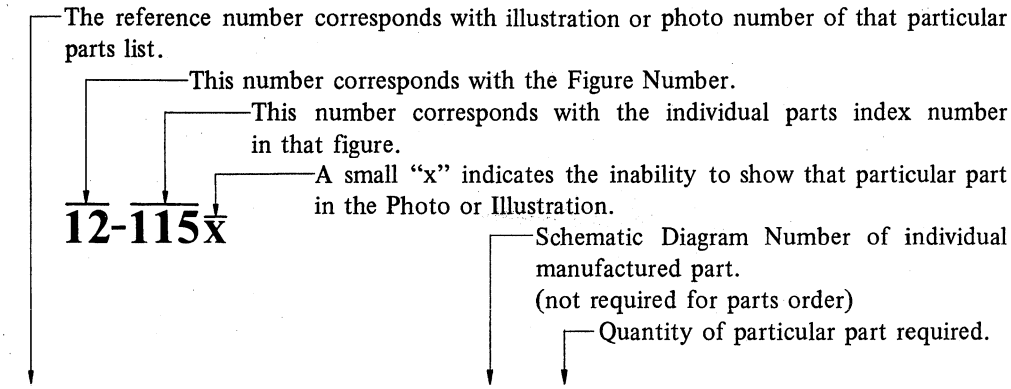
PARTS LIST

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HOW TO USE THIS PARTS LIST

1. This parts list is compiled by various individual blocks based on assembly process.
2. When ordering parts, please describe parts number, serial number, and model number in detail.
3. How to read list.



Ref. No.	Parts No.	Description	Schematic No.	Q'ty
		FLYWHEEL BLOCK #13		
12-115x	800425	Flywheel Block Assy. Comp.	RDG#13	1
12-116	244506	Flywheel Only	RD-233	1
12-117x	244754	Felt, Flywheel	RD-275	1
12-118	251324	Main Metal Case	RD-236	1
12-119	253080	Main Metal	RD-237	1

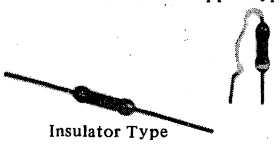
4. The symbol numbers shown on the P.C. Board list can be matched with the Composite Views of components of the Schematic Diagram or Service Manual.
5. The indications of Resistors and Capacitors in the photos of P.C. Board are being eliminated.
6. The shape of the parts and parts name, etc. can be confirmed by comparing them with the parts shown on the Electrical Parts Table of P.C. Board.
7. Both the kind of part and installation position can be determined by the Parts Number. To determine where a parts number is listed, utilize Parts Index at end of Parts List.
   It is necessary first of all to find the Parts Number. This can be accomplished by using the Reference Number listed at right of parts number in the Parts Index. (meaning of ref. no. outlined in Item 3 above).
8. Utilize separate "Price List for Parts" to determine unit price. The most simple method of finding parts Price is to utilize the reference number.

ELECTRICAL PARTS TABLE

Because the indication of resistors and capacitors in the P. C. Board photos are being eliminated, please confirm parts name and shape by comparing them with the parts shown in this table.

1

Solid Resistor

2 Stopper Type

Insulator Type
Carbon Resistor

3

Metal Oxide Film Resistor

4

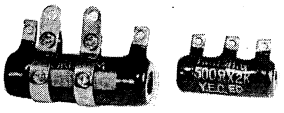
Cement Resistor

5

Wire-Wound Resistor

6

Thermister

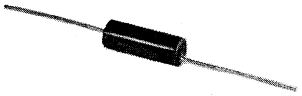
7

Enamel Resistor

1

MP Capacitor (Tubular Type)

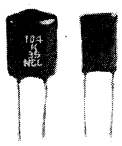
2

Plastic Capacitor

3

Mylar Capacitor

4

VFM (Hi-Q) Capacitor

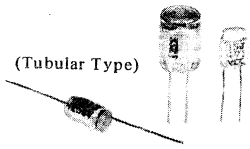
5

Mylar Capacitor

6

Tantalum Capacitor

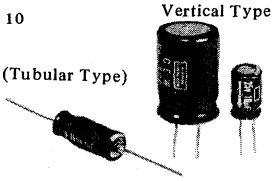
7

Oil Capacitor (Tubular Type)

8 Vertical Type
(Tubular Type)

Styrol Capacitor

9

Electrolytic Capacitor (Tubular Type)

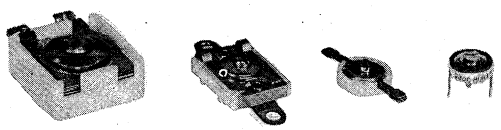
10 Vertical Type
(Tubular Type)

Electrolytic Capacitor

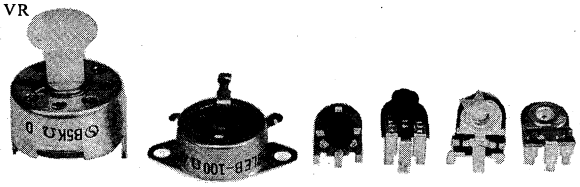
11

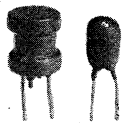
Ceramic Capacitor

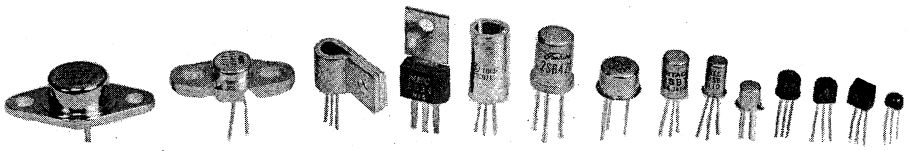
12

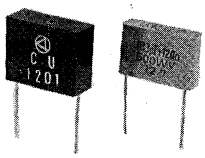
Metalized Mylar (Paper) Capacitor

13

Trimmer Condenser

VR

Semi-Fixed Volume

L

Ferri Inductor

TR

Transistor

CR

Spark Quencher

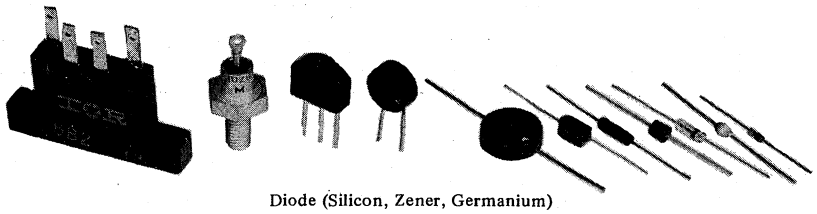
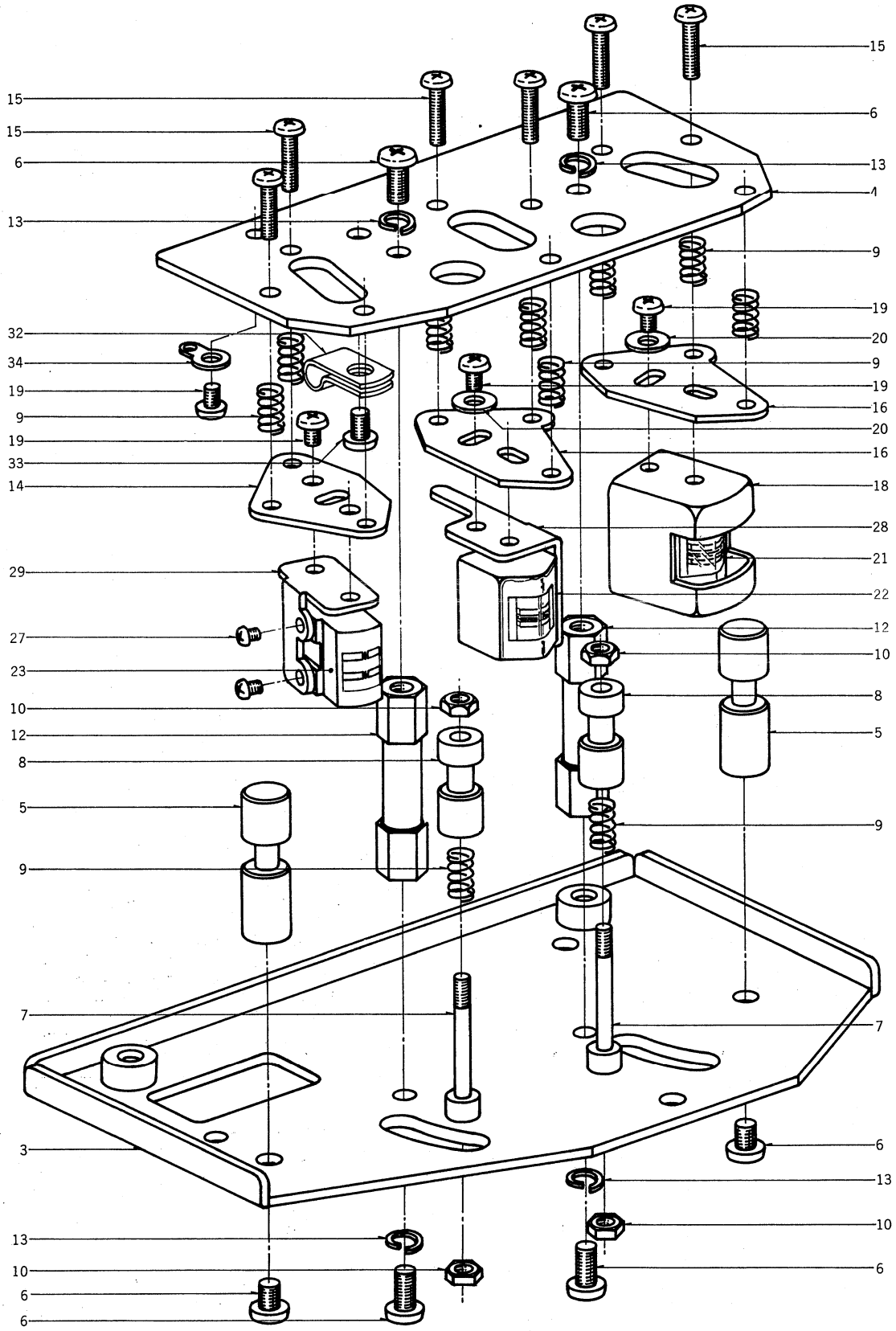
D

Diode (Silicon, Zener, Germanium)

FIG. 1 ILLUSTRATION OF TD HEAD BLOCK



TD HEAD BLOCK

Ref. No.	Parts No.	Description	Schematic No.	Q'ty
1-1x	BH587777	TDHead Block Comp.	TD-1,3	1
1-2x	BH587788	TD Head Block Comp. (PRO)	TD-2	1
1-3	HZ581106	Head Base A, w/prop	TD-0001	1
1-4	HZ581117	Head Base B	TD-0004	1
1-5	HZ803597	Tape Guide A	RD-3	1
1-6	ZS537006	Screw, binding head 4x8		6
1-7	MH578957	Tape Guide Prop	TD-0003	2
1-8	HZ532710	Tape Guide B	TW-0006	2
1-9	ZG466312	Angle Adjust Spring E	BS-0018	11
1-10	ZW273835	Nut M3		4
1-11x	ZW273745	Spring Washer M3		2
1-12	MH529233	Head Base Prop B	ND-0017	2
1-13	ZW273914	Spring Washer M4		4
1-14	HZ532732	CH Retaining Base	TW-0008	1
1-15	ZS562432	Screw, binding head 3x13		9
1-16	HZ532765	PH Retaining Base	TW-0010	2
1-17x	ZG540584	Angle Adjust Spring G (PRO)	TW-0025	3
1-18	HZ532776	Shield Case	TW-0011	1
1-19	ZS396000	Screw, binding head 3x4		7
1-20	ZW413256	Washer (SPC) D3.4x7.8x0.5t		2
1-21	HP536501	P.B. HEAD BLOCK P4-202		1
1-22	HR384513	REC HEAD R4-200		1
1-23	HE563220	ERASE HEAD BLOCK E4-260		1
1-24x	HP552205	P.B. HEAD P2-100 (PRO)		1
1-25x	HR552216	REC. HEAD R2-100 (PRO)		1
1-26x	HE587790	ERASE HEAD E2-100 (PRO)		1
1-27	ZS394525	Screw, binding head 2x3		4
1-28	HA533597	RH Angle	TW-0201	1
1-29	HA533608	EH Angle	TW-0202	1
1-30x	ZS460438	Screw, binding head 2x3		2
1-31x	EA382713	Head Connector P.C. Board	RD-A8	1
1-32	EJ315101	Nylon Clip HP-4N	2-7-38	1
1-33	ZS355511	Screw, binding head 3x6		1
1-34	ZW273881	Earth Lug M4		1

MAIN MOTOR BLOCK

Ref. No.	Parts No.	Description	Schematic No.	Q'ty
2-1x	BM587507	Main Motor Block Comp. HM2-16TD	TD	1
2-2	MZ526421	16 Motor Cover, w/metal	TW-7023	1
2-3	MZ448222	24 Motor Cover, w/metal	24X-781	1
2-4	ZS427037	Screw, pan head 4x50, w/washer		4
2-5	MR540876	Motor Pulley Comp.	MC-7201	1
2-6	ZS203016	Screw, oval countersunk head 3x15		1
2-7	MZ316293	Motor Mt. Plate, MR	MR-717	1
2-8	MH254182	Motor Prop B	24X-731	1
2-9	MH586563	Motor Prop C, w/bush	TD-7005	2
2-10	ZS424056	Screw, pan head 4x10		4
2-11	ZS272395	Motor Prop Retaining Screw, M-7	24X-732	1
2-12	ZS427026	Screw, countersunk head 4x10		2
2-13	SZ529108	Main Motor Fan	ND-7010	1
2-14	ZW270134	'E' Ring 5M	6-1-9	1
2-15x	ZW330412	Adjust. Washer (U) D4x13x0.13t		1
2-16x	ZW330423	Adjust. Washer (U) D4x13x0.25t		1
2-17	ZW330445	Adjust. Washer (U) D4x13x0.8t		1

When ordering parts, please describe Parts Number, Serial Number, and Model Number in detail.

FIG. 2 ILLUSTRATION OF MAIN MOTOR BLOCK

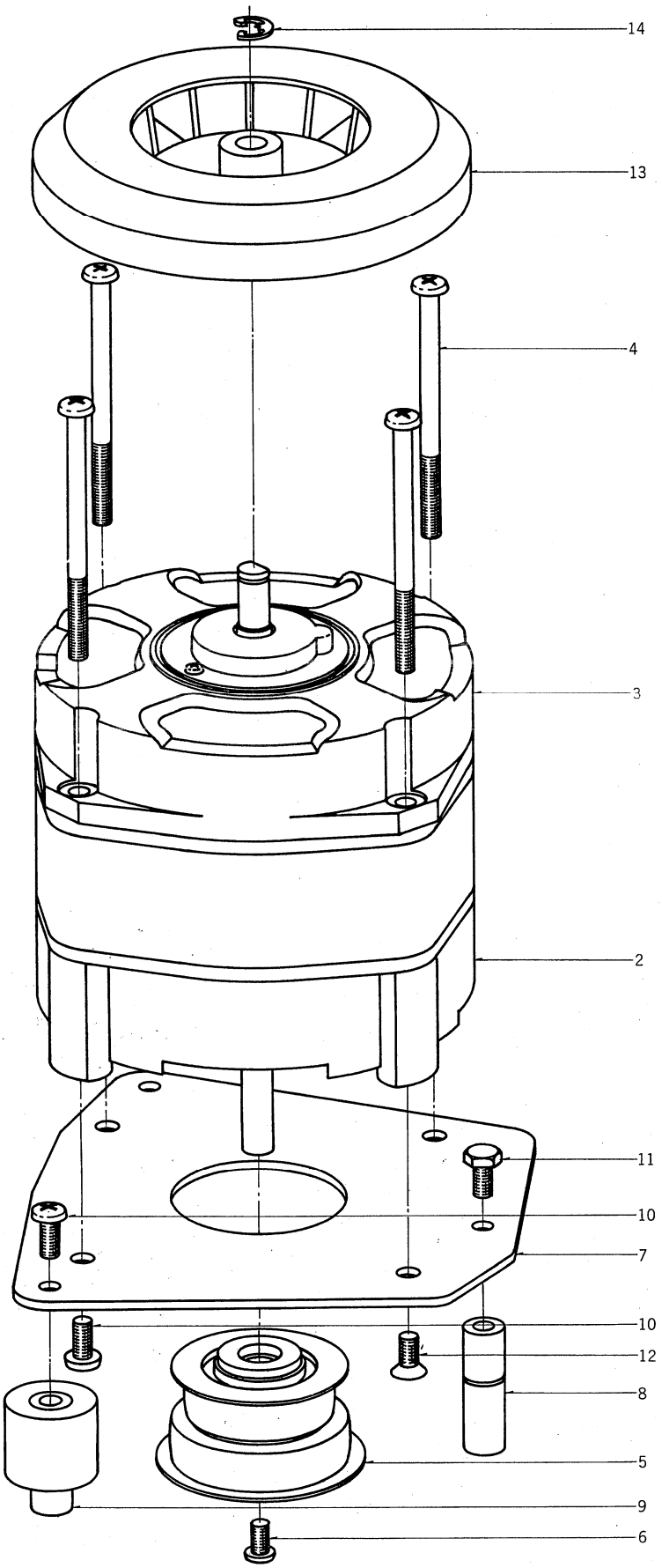
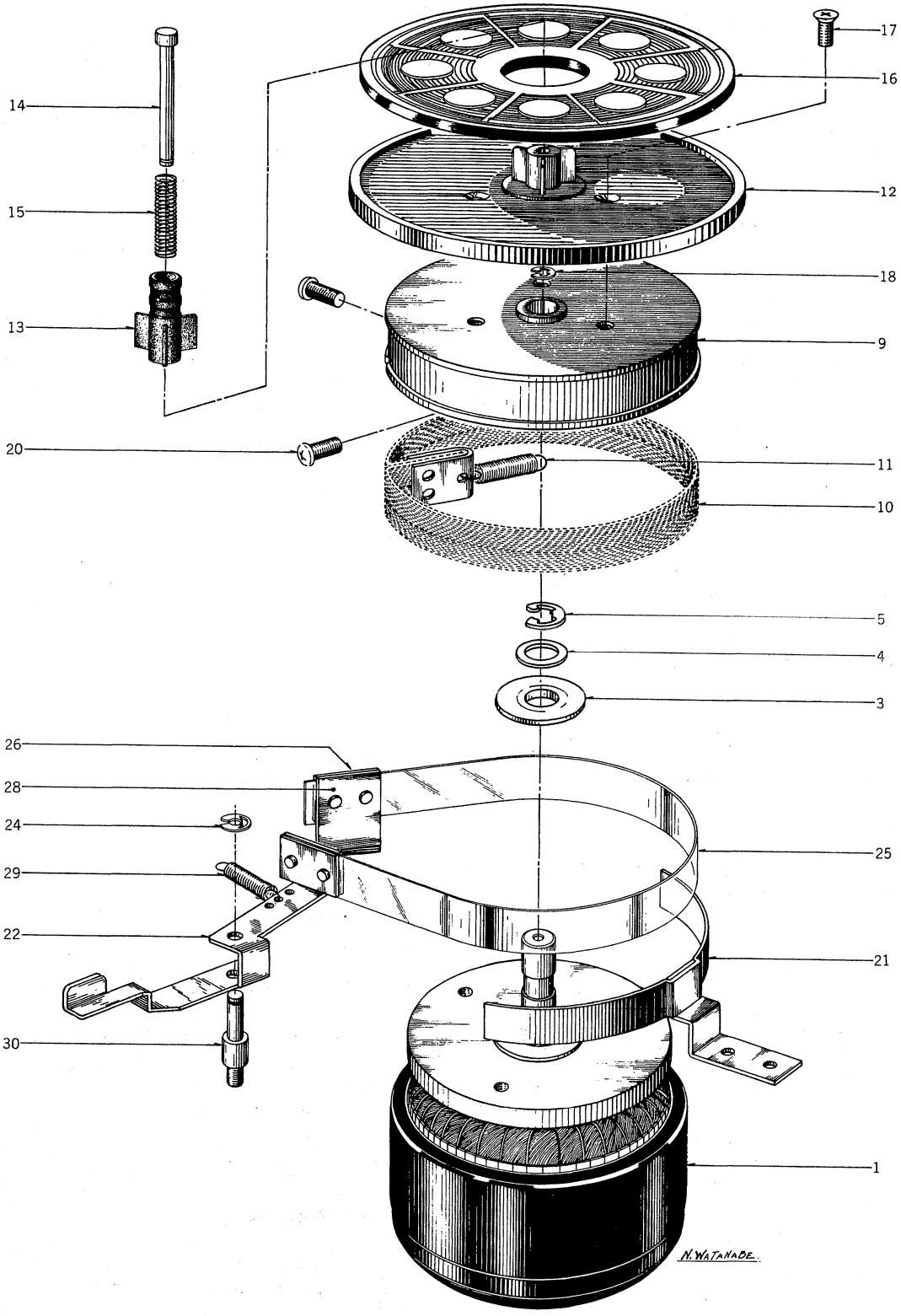


FIG. 3 ILLUSTRATION OF REEL MOTOR/REEL TABLE BLOCK



REEL MOTOR/REEL TABLE BLOCK

Ref. No.	Parts No.	Description	Schematic No.	Q'ty
	REEL MOTOR BLOCK			
3-1	BM587518	Reel Motor Block Comp. 24XO-2	TD	1
3-2x	MV408510	Bearing 608VVMC2ERAV2L		1
3-3	MZ248185	Bearing Retainer	3R-758	1
3-4	ZW260278	Washer (Nylon) D8.1x13x0.5t		1
3-5	ZW270156	'E' Ring 6M	6-1-9	1
	REEL TABLE (R, L) BLOCK			
3-6x	BR587542	Reel Table Block Comp. (Supply)	TD	1
3-7x	BR587553	Reel Table Block Comp. (Take-up)	TD	1
3-8x	MT577473	Brake Drum (L) B	MR-216	1
3-9	MT576538	Brake Drum (R) B	MR-216	1
3-10	MT436860	Brake Cloth Comp.	MR-269	1
3-11	ZG317496	Felt Tension Spring	MR-260	1
3-12	MT534666	Reel Table	TW-2031	1
3-13	MT534677	Reel Clamper	TW-2032	1
3-14	MS342000	Reel Shaft	3R-108	1
3-15	ZG540617	Clamper Spring	TW-2096	1
3-16	MT534688	Reel Table Rubber	TW-2033	1
3-17	ZW413785	Screw, binding head 3x12		3
3-18	ZW270088	'E' Ring 1.9M	6-1-9	1
3-19x	ZW562476	Earth Lug M3		1
3-20	ZS435273	Screw, binding head 4x10		2
	MECH. ASSEMBLY BLOCK			
3-21	MZ581995	Brake Band Guide	TD-1014	2
3-22	ML582041	Brake Lever A (Take-up)	TD-1019	1
3-23x	ML533643	Brake Lever B (Supply)	TW-1030	1
3-24	ZW290283	'U' Ring 2.85M	6-1-1	2
3-25	MT314987	Brake Band	MR-213	2
3-26	MZ314998	Brake Band Retaining Plate	MR-212	4
3-27x	ZS413155	Screw, binding head 3x6		16
3-28	ML582074	Brake Band Support	TD-1023	2
3-29	ZG540090	Brake Lever Spring	TW-1058	2
3-30	MH581984	Brake Lever Post B	TD-1013	1

FLYWHEEL BLOCK

Ref. No.	Parts No.	Description	Schematic No.	Q'ty
4-1x	BF587520	Flywheel Block Comp.	TD-1, 3	1
4-2x	BF587531	Flywheel Block Comp. (PRO)	TD-2	1
4-3	MI296245	Flywheel 24	MH-202	1
4-4	MS581310	Capstan Shaft A	TD-2001	1
4-5x	MS581321	Capstan Shaft B (pro)	TD-2002	1
4-6	ZW437804	Flywheel Thrust AD7.9x13x1t	101024	1
4-7	ZS373577	Set Screw, hexagon Socket 5x6 (Flat/p.)		2
4-8	MZ413976	Main Case B 24 Comp.	1630-205	1
4-9x	MZ586798	Main Case Felt	A0415	1
4-10	MZ446635	Thrust Cap, Main Metal B2	LF-2006	1
4-11	MH244710	Flywheel Fixing Pin	900-250	1
4-12	MZ586438	Main Metal Cap Felt	A0414	1
4-13	SK581332	Main Case Cap	TD-2003	1
	MECH. ASSEMBLY BLOCK			
4-14	ZS416687	Screw, binding head 4x8		5
4-15	MV537862	Steel Ball D4		1
4-16	MZ453767	Thrust Bracket	BS-1022	1
4-17	ZW462205	Washer (Nylon) D7.9x1t (Without hole)		1
4-18	MH581916	Flywheel Prop	TD-1005	2
4-19	MB437703	Flywheel Belt, MCD113x7x1.6	MC-1015	1
4-20	MZ436847	Belt Guide	LF-1012	1
4-21	ZS322728	Screw, binding head 3x5		2
4-22	ZW330412	Adjust. Washer (U) D4x13x0.13t		1
4-23x	ZW330423	Adjust. Washer (U) D4x13x0.25t		1
4-24x	ZW413190	Adjust. Washer (U) D4x13x0.8t		1

When ordering parts, please describe Parts Number, Serial Number, and Model Number in detail.

FIG. 4 ILLUSTRATION OF FLYWHEEL BLOCK

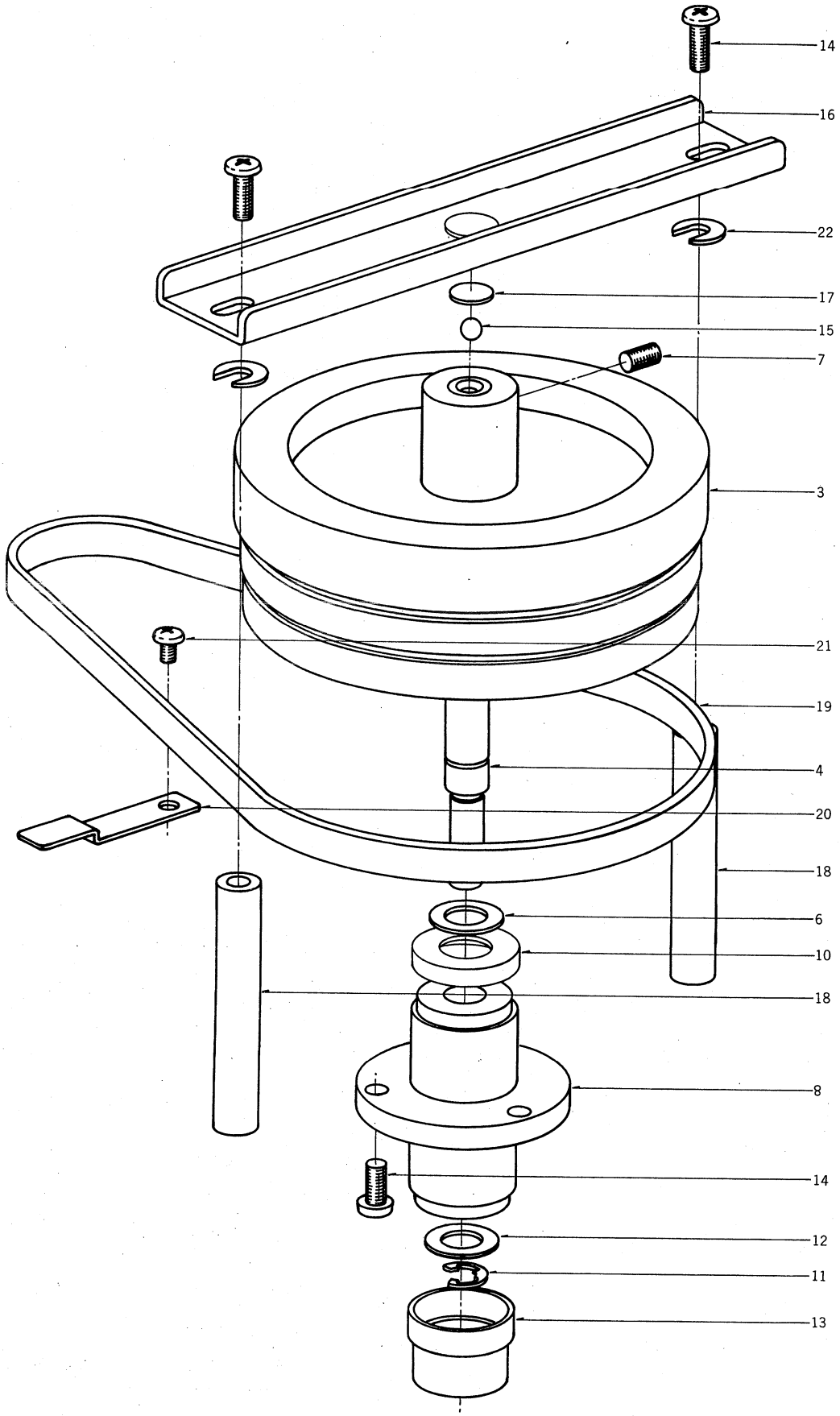
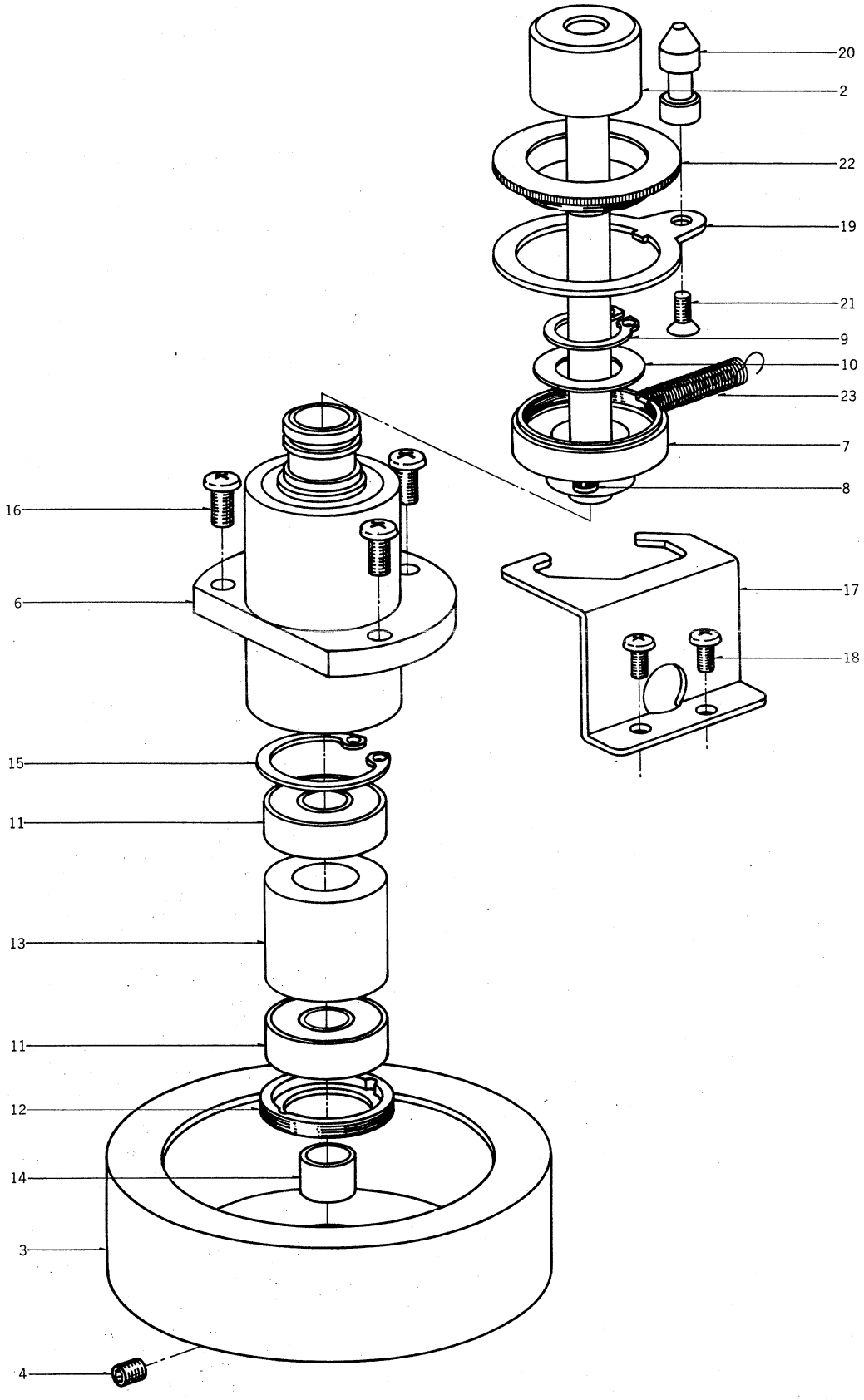


FIG. 5 ILLUSTRATION OF IMPEDANCE ROLLER BLOCK



IMPEDANCE ROLLER BLOCK

Ref. No.	Parts No.	Description	Schematic No.	Q'ty
5-1x	BI587755	Impedance Roller Block Comp.	TD	1
5-2	MS580386	Impedance Roller Shaft, w/roller	TD-2030	1
5-3	MI292678	Z Wheel	RD-245	1
5-4	ZS487912	Set Screw, hexagon Socket 5x6 (cup/p.)		2
5-5x	ZW321592	Washer (sus) D8.1x13x0.3t		1
5-6	BC580792	Impedance Case, w/shaft	TD-2080	1
5-7	MZ580634	Arm Holder	TD-2063	1
5-8	MZ596698	Stopper Pin Tube	TD-2100	1
5-9	ZW573546	'C' Ring (Shaft) STW-13		1
5-10	ZW584043	Thrust Washer	TD-2099	1
5-11	MV248141	Bearing 608VVMC2ERB32L		2
5-12	ZS292667	Z Bearing Screw	3A-215	1
5-13	MZ580836	Bearing Collar B	TD-2088	1
5-14	MZ580667	Bearing Collar A	TD-2066	1
5-15	ZW575684	'C' Ring (Hollow) RTW-22		1
		MECH. ASSEMBLY BLOCK		
5-16	ZS416687	Screw, binding head 4x8		3
5-17	MZ480015	Tension Arm Bracket	TD-1038	1
5-18	ZS413155	Screw, binding head 3x6		2
5-19	ML580004	Impedance Roller Arm	TD-1037	1
5-20	MS580454	Tension Arm Guide	TD-2038	1
5-21	ZS200305	Screw, countersunk head 3x5		1
5-22	SK580151	Arm Cap	TD-1053	1
5-23	ZG582232	Z Arm Spring	TD-1039	1

TENSION ARM BLOCK

Ref. No.	Parts No.	Description	Schematic No.	Q'ty
6-1x	BL587801	Tension Arm Block Comp.	TD	1
6-2	ML580443	Tension Arm Table, w/metal	TD-2037	1
6-3	MS580487	Tension Shaft	TD-2041	1
6-4	ZW580498	Tension Arm Washer	TD-2042	1
6-5	ZW575763	Washer (SPC) D8.1x13x0.5t		2
6-6	ZW260256	Washer (PBP) D8.1x13x0.1t		2
6-7	MH244710	Flywheel Fixing Pin	900-250	1
6-8	MH580588	Damper Prop.	TD-2052	1
6-9x	UM387617	Clutch Felt	CS-2011	1
6-10	MZ580577	Clutch Plate, w/metal A	TD-2051	1
6-11	ML580555	Clutch Lever, w/support	TD-2048	1
6-12	ZW270156	'E' Ring 6M	6-1-9	1
6-13	ZG580511	Clutch Spring	TD-2044	1
6-14	ZW580678	Spring Retaining Washer	TD-2067	2
6-15	ZW273756	Nut M3		2
6-16	ZW575774	Washer D4.5x9.8x0.7t		1
6-17	ZG580533	Cramp Spring	TD-2046	1
6-18	ZW410051	'E' Ring 2.5	6-1-9	1
6-19	ZG580522	Clutch Lever Spring	TD-2045	1
6-20	MZ580500	Switch Cam	TD-2043	1
6-21	ZG580746	Tension Spring	TD-2074	1
6-22	ZW550642	Washer (SPC) D3.1x7.9x0.5t		1
6-23	ZS323728	Screw, binding head 3x5		1
6-24	ML580465	Tension Arm	TD-2039	1
6-25	MS580454	Tension Arm Guide	TD-2038	1
6-26x	MZ810191	Cushion Rubber, RD	RD-278	1
6-27	ZS424124	Screw, countersunk head 3x5		1
		MECH. ASSEMBLY BLOCK		
6-28	ZW413190	Adjust. Washer (U) D4x13x0.8t		1
6-29x	ZW330423	Adjust. Washer (U) D4x13x0.25t		1
6-30x	ZW330412	Adjust. Washer (U) D4x13x0.13t		1
6-31	ZS413155	Screw, binding head 3x6		4
6-32	MH580691	Actuator Prop.	TD-2069	1
6-33	MZ580680	Actuator	TD-2068	1
6-34	ZW290283	'U' Ring 2.85M	6-1-1	1
6-35	ES562465	Micro SW. K-1	25-1-26	1
6-36	ZS417148	Screw, binding head 3x15		2
6-37	MH581905	Prop A	TD-1004	3
6-38	SZ535094	Decorative Washer	TW-2077	1
6-39	ZS575796	Screw, oval countersunk head 3x5		1

FIG. 6 ILLUSTRATION OF TENSION ARM BLOCK

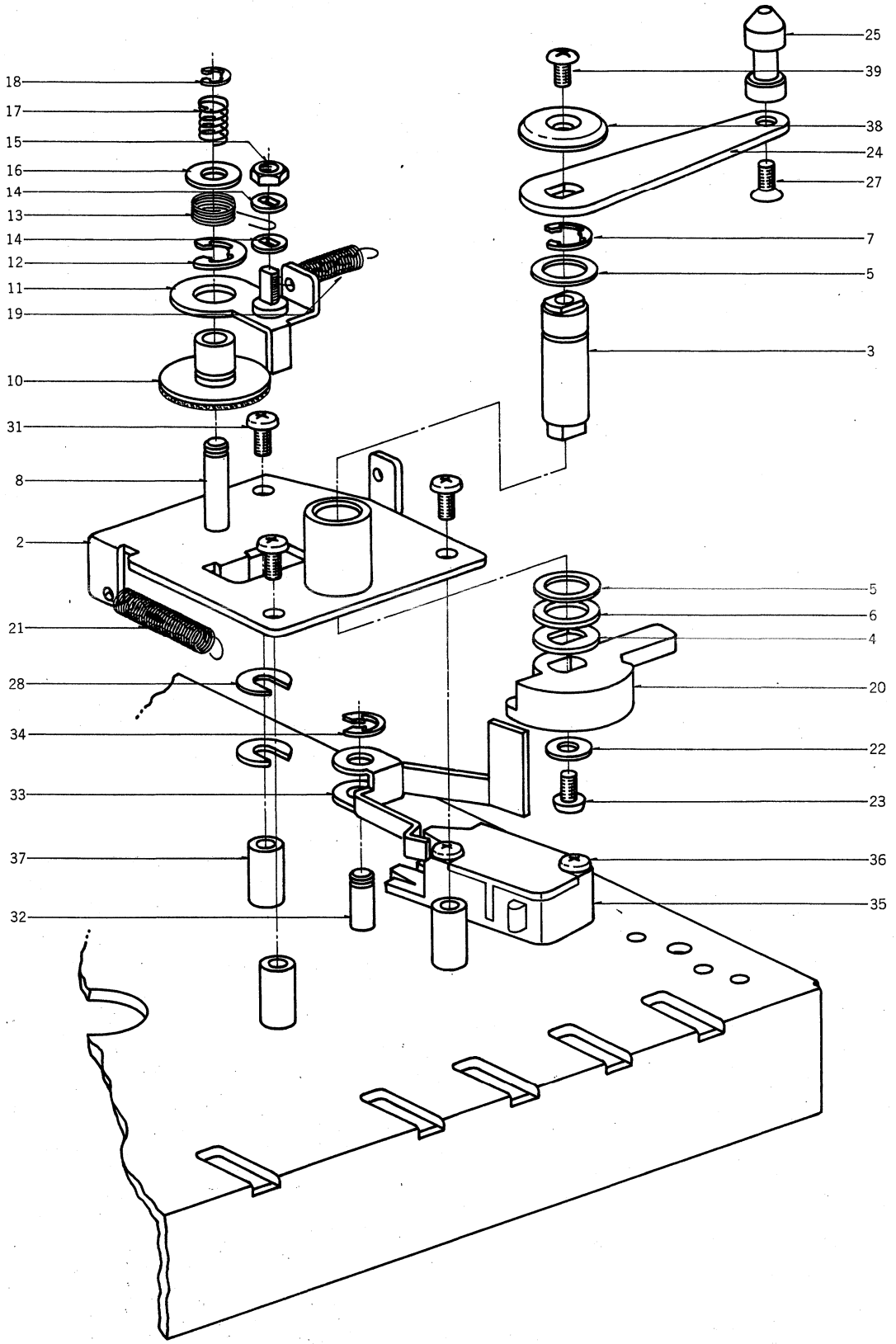
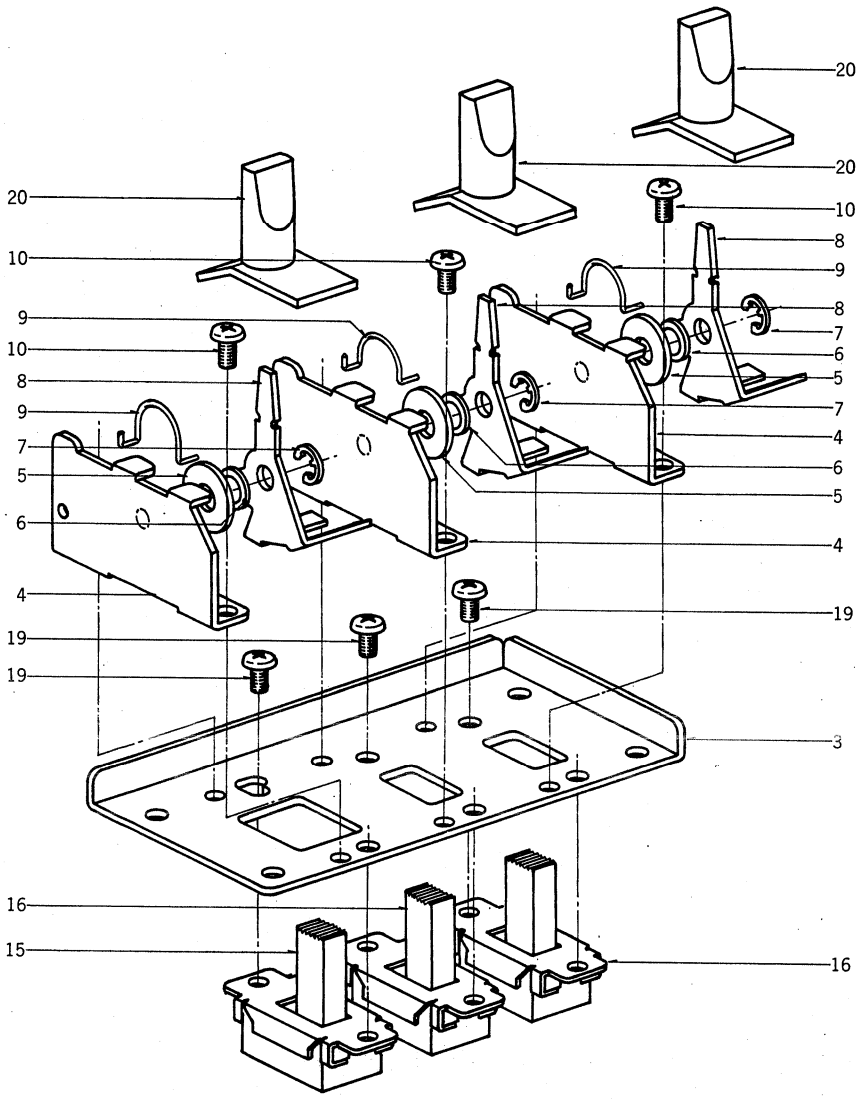
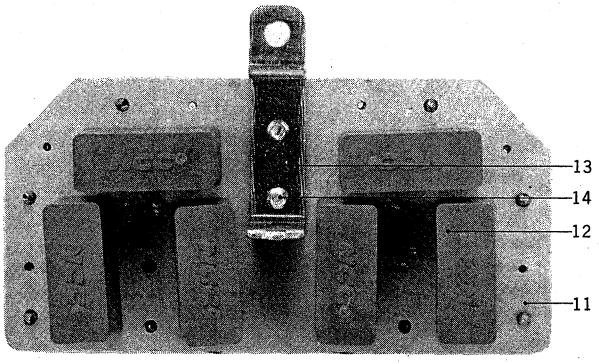


FIG. 7 ILLUSTRATION LEVER SW. BLOCK



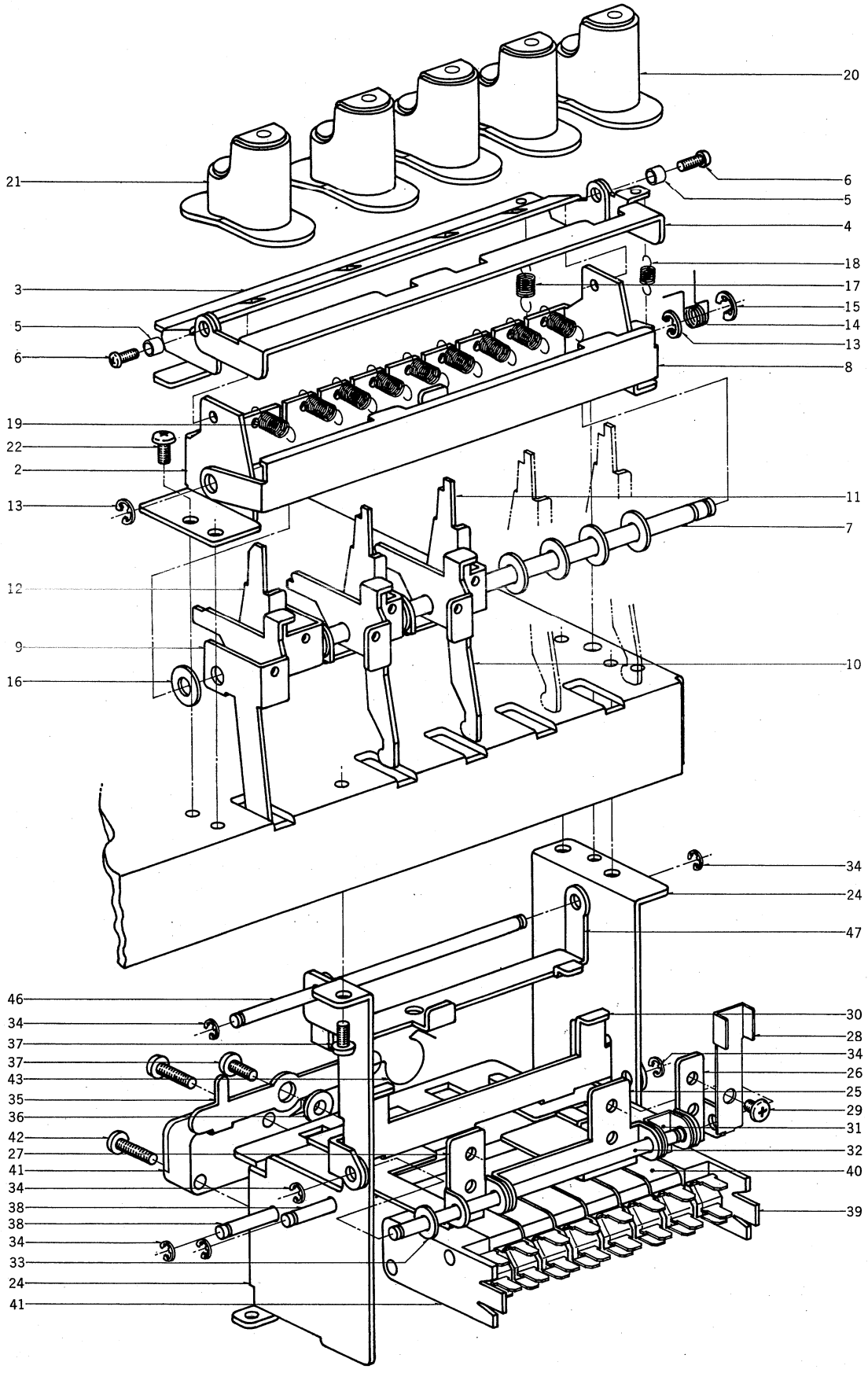


LEVER SW. BLOCK

Ref. No.	Parts No.	Description	Schematic No.	Q'ty
7-1x	BS587733	Lever SW. Block Comp.	TD	1
7-2x	BS587744	Lever SW. Block Comp. (EC)	TD	1
7-3	MZ580410	SW. Plate	TD-2033	1
7-4	MZ580397	Lever SW. Bracket	TD-2031	3
7-5	MZ421097	Washer D4.5x13x1t		3
7-6	ZW589893	Washer D4.1x7x0.4t		3
7-7	ZW270101	'E' Ring 3M	6-1-9	3
7-8	ML580408	SW. Lever	TD-2032	3
7-9	ZG580432	Turn Spring	TD-2036	3
7-10	ZS575752	Tapping Screw #2 3x5 (binding)		6
7-11	EA581782	Spark Quencher P.C. Board B	TD-2087	1
7-12	ER376435	Spark Quencher U/L 0.1μ+120Ω 250 WV	41-1-35	6
7-13	ML580847	P.C. Board Mt. Parts	TD-2089	1
7-14	ZS323728	Screw, binding head 3x5		2
7-15	ES479485	Slide SW. S-1	25-3-66	1
7-16	ES479496	Slide SW. S-2	25-3-67	1
7-17x	MZ580724	Power SW. Cover (EC)	TD-2072	1
7-18x	MZ580858	SW. Lever Cover (EC)	TD-2090	2
7-19	ZS371856	ISO Screw, binding head 3x5		4
7-20	SK581837	Amp Knob 1-B	CP-5018	3

When ordering parts, please describe Parts Number, Serial Number, and Model Number in detail.

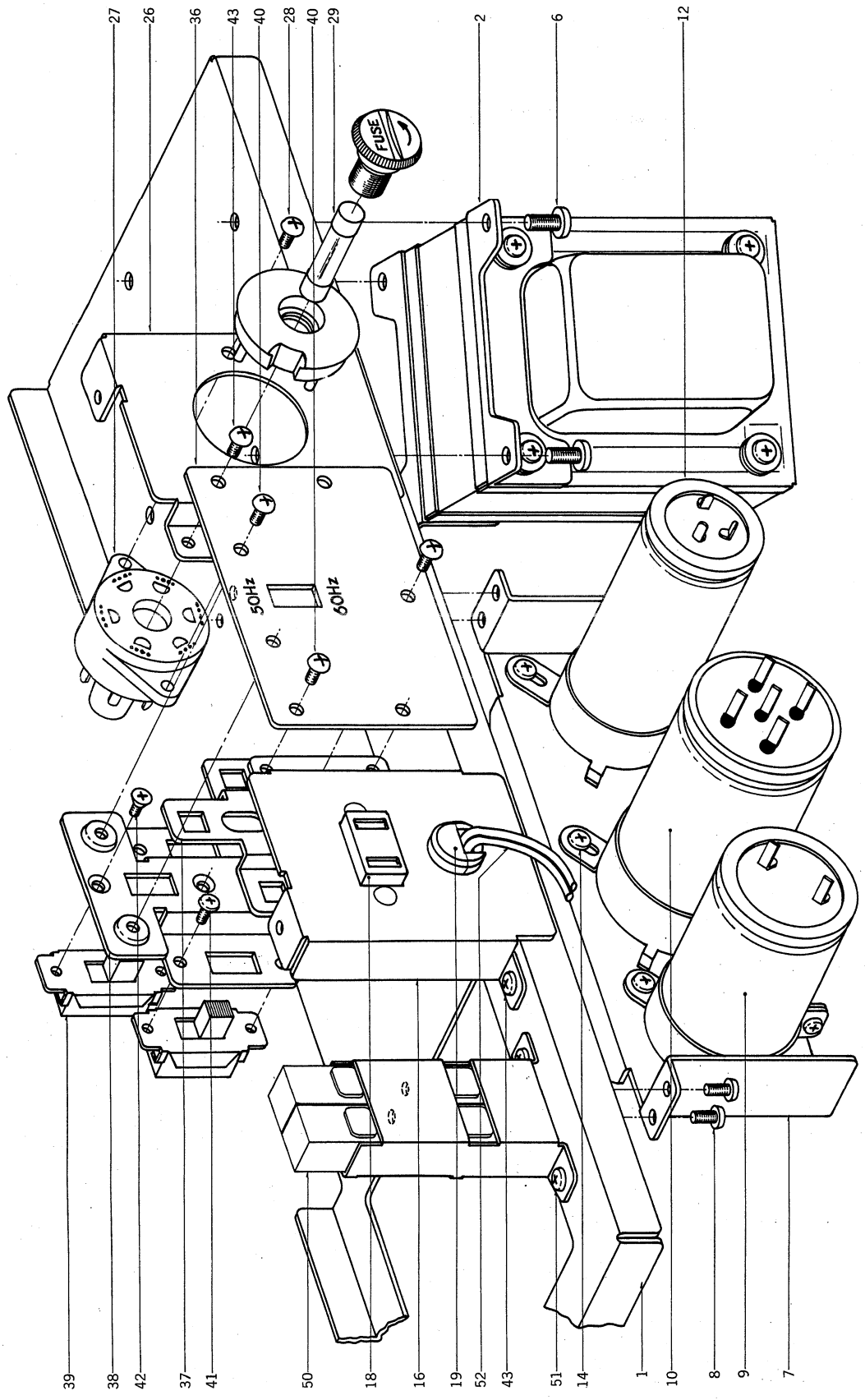
FIG. 8 ILLUSTRATION OF OPERATION BLOCK



OPERATION BLOCK

Ref. No.	Parts No.	Description	Schematic No.	Q'ty
		OPERATION LEVER BLOCK		
8-1x	BL587564	Operation Lever Block Comp.	TD	1
8-2	ML581152	Operation Table	TD-2004	1
8-3	ML581163	Lock Plate A	TD-2005	1
8-4	ML581174	Lock Plate B	TD-2006	1
8-5	MZ580241	Lock Plate Bush	TD-2014	2
8-6	ZS464692	Screw, binding head 2.3x6		2
8-7	MS581343	Button Lever Shaft	TD-2008	1
8-8	ML581185	Lock Plate C	TD-2007	1
8-9	ML581354	Pause Lever	TD-2009	1
8-10	ML581365	Operation Lever A	TD-2010	4
8-11	ML580217	Button Lever A	TD-2011	4
8-12	ML580228	Button Lever B	TD-2012	1
8-13	ZW270101	'E' Ring 3M	6-1-9	2
8-14	ZG580230	Lock Plate C Spring	TD-2013	1
8-15	ZW290283	'U' Ring 2.85M	6-1-1	1
8-16	ZW562757	Washer D4.3x11x0.8t		11
8-17	ZG580252	Lock Plate A Spring	TD-2015	1
8-18	ZG580263	Lock Plate B Spring	TD-2016	1
8-19	ZG580285	Button Lever Spring	TD-2018	10
8-20	SB583244	Operation Button A	TD-6015	4
8-21	SB581578	Operation Button B (Blue)	TD-6015	1
8-22	ZS413155	Screw, binding head 3x6		4
		OPERATION SW. BLOCK		
8-23x	BK587575	Operation SW. Block Comp.	TD	1
8-24	MZ581196	SW. Holder	TD-2019	1
8-25	ML580296	FWD SW. Lever	TD-2020	1
8-26	ML580307	FF SW. Lever	TD-2021	1
8-27	ML580318	RWD SW. Lever	TD-2022	1
8-28	MZ580320	Cushion Plate	TD-2023	3
8-29	ZS481645	Screw, binding head 2.6x3		3
8-30	ML580331	Fast SW. Lever	TD-2024	1
8-31	ML580342	OP SW. Lever	TD-2025	1
8-32	MS580353	Micro SW. Shaft	TD-2026	1
8-33	ZW550642	Washer (SPC) D3.1x7.9x0.5t		7
8-34	ZW270088	'E' Ring 1.9M	6-1-9	8
8-35	ML580364	Seesaw Lever	TD-2027	1
8-36	MZ580375	SW. Bush	TD-2028	1
8-37	ZS413741	Screw, binding head 3x8		4
8-38	MS580353	Micro SW. Shaft	TD-2026	2
8-39	ES562465	Micro SW. K-1	25-1-26	1
8-40	ES573478	Micro SW. K-3	25-1-31	6
8-41	ES573456	Micro SW. K-2	25-1-30	2
8-42	ZS562432	Screw, binding head 3x13		2
8-43	ZG528928	Turn Spring B	ND-2042	1
8-44x	BA587586	Spark Quencher P.C. Board (A) (TD-2086) Comp.	TD	1
8-45x	ZS413155	Screw, binding head 3x6		3
8-46	MS583380	Release Lever Shaft	TD-2094	1
8-47	ML583367	Release Lever B	TD-2092	1

FIG. 9 ILLUSTRATION OF POWER SUPPLY BLOCK



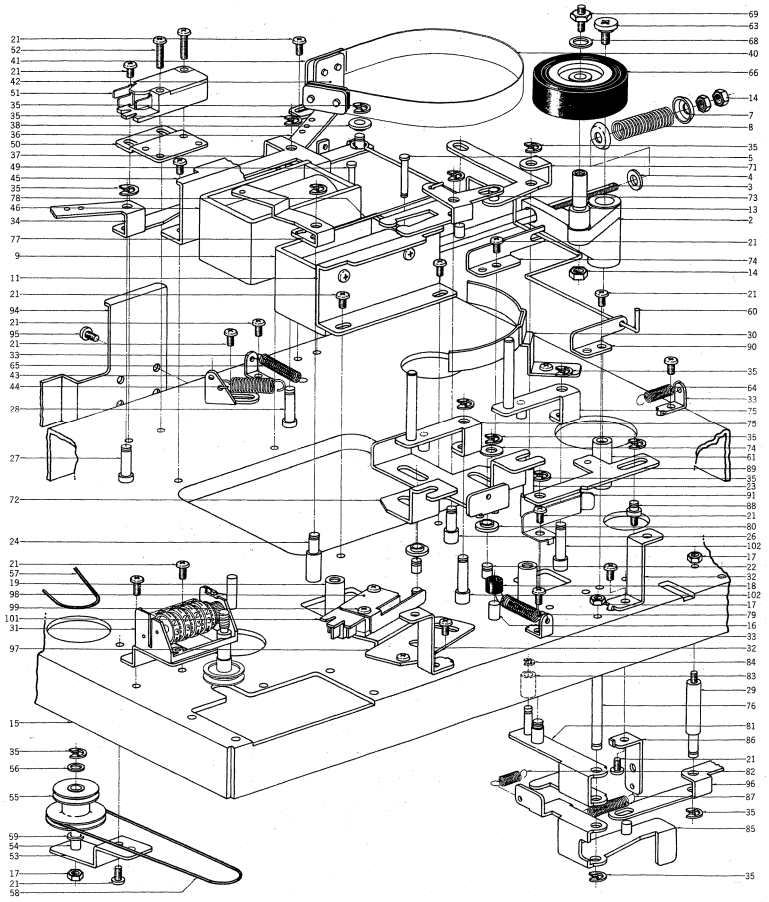
POWER SUPPLY BLOCK

Ref. No.	Parts No.	Description	Schematic No.	Q'ty
9-1	MZ581444	Power Shassis	TD-2053	1
9-2	BT573513	Power Trans. TDT-4	38-4-270	1
9-3x	BT573491	Power Trans. TDT-2 (UL)	38-4-268	1
9-4x	BT573502	Power Trans. TDT-3 (EC)	38-4-269	1
9-5x	BT573480	Power Trans. TDT-1 (JPN)	38-4-267	1
9-6	ZS416687	Screw, binding head 4x8		4
9-7	MZ581242	Capacitor Base	TD-2055	1
9-8	ZS472274	Tapping Screw #2 3x6 (bind)		12
9-9	EC557190	Elect./C. 470μF 160WV (Lug type)	24-10-88	1
9-10	EC520626	MP/C. (3+1)μFx2 250WV AC (Lug type)	24-9-74	1
9-11x	EC536927	MP/C. 3μFx2 250WV AC (Lug type UNI/D.) (UL)	24-9-79	1
9-12	EC442056	MP/C. (2+1)μF 250WV AC (Lug type OP./D.)	24-9-61	1
9-13x	EC536938	MP/C. 2μF 250WV AC (Lug type UNI/D.) (UL)	24-9-78	1
9-14	ZS413155	Screw, binding head 3x6		6
9-15x	ER365016	Carbon/R. RD1/4 220k(J) (Insu. type)	35-9-5	1
9-16	ML581207	AC Table A	TD-2054	1
9-17x	ML581231	AC Table B (EC)	TD-2054	1
9-18	EJ378944	Socket, AC U/L S-1 9122	31-1-47	1
9-19	EZ382263	Strain Relief SR-4K-4	2-7-12	1
9-20x	EZ246936	Strain Relief SR-6W-1 (WG, 3 core)	2-7-8	1
9-21x	ZW273881	Earth Lug M4		1
9-22x	EJ561227	Terminal No. 500/2 (EC)	52-1-18	1
9-23x	MZ546625	Connector Insulator Paper (EC)	ND-1081	1
9-24x	ZS417148	Screw, binding head 3x15		1
9-25x	ZS455207	Tapping Screw #2 3x5 (BR)		1
9-26	ML581613	VS Table	TD-2056	1
9-27	EJ233370	Socket S-18010 (Volt. Selector)	30-2-3	1
9-28	ZS374128	ISO Screw, truss head 3x8		2
9-29	EF563703	Fuse 2A 250V	39-1-50	1
9-30x	EF277413	Fuse ST-2 2A	39-1-26	2
9-31x	EF277424	Fuse ST-4 0.8A	39-1-28	1
9-32x	EF354306	Fuse 1.25AT (T type)		3
9-33x	EF395188	Fuse 630MAT (T type) (CEE)		1
9-34x	EF563703	Fuse 2A 250V	39-1-50	3
9-35x	EF575932	Fuse 0.8A 250V	39-1-50	1
9-36	ML580590	F SW. Base B	TD-2057	1
9-37	MZ580601	F SW. Plate	TD-2058	1
9-38	ML580612	F SW. Base A	TD-2059	1
9-39	ES479485	Slide SW. S-1	25-3-66	3
9-40	ZS355511	Screw, binding head 3x6		3
9-41	ZS379405	ISO Screw, binding head 3x6		4
9-42	ZS440291	ISO Screw, countersunk head 3x6		2
9-43	ZS589511	Tapping Screw #2 3x6 (bind)		4
9-44x	EA581815	Fuse P.C. Board TD (EC, JPN)	TD-1066	1
9-45x	EJ580825	Fuse Holder (EC, JPN)	TD-2083	4
9-46x	EF354306	Fuse 1.25AT (T type)		2
9-47x	EF563703	Fuse 2A 250V	39-1-50	2
9-48x	ZS468358	Screw, truss head 3x5		2
9-49x	HA583198	Fuse Angle TD (EC, JPN)	TD-1067	2
9-50	ER575640	Cement/R. H(20+20)B (43+220+180)K	35-16-54	1
9-51	ZS472274	Tapping Screw #2 3x6 (bind)		2
9-52	EW540112	AC Cord 2.5M (CUL)	26-3-19	1
9-53x	EW559260	Power Cord Type-412 (EC)	26-3-33	1
9-54x	EW524845	AC Cord 2.5M (JPN)	26-3-31	1
9-55x	EW466784	Australia Cord (3 core)	26-3-23	1
9-56x	ES479485	Slide SW. S-1 (Reel Size)	25-3-66	1
9-57x	ES573535	Slide SW. 302BA893-100-1 (Reel Size) (EC)	25-3-99	1
9-58x	ES573456	Micro SW. K-2	25-1-30	1
9-59x	EJ299823	Mate-N-Lock Cap Housing 6P 1-480276-0	52-1-2	1
9-60x	EJ373623	Pin Contact 61116-1	52-1-1	5
9-61x	EJ205975	Cramp Terminal 1-SD	32-1-7	4

MECHANISM ASSEMBLY BLOCK

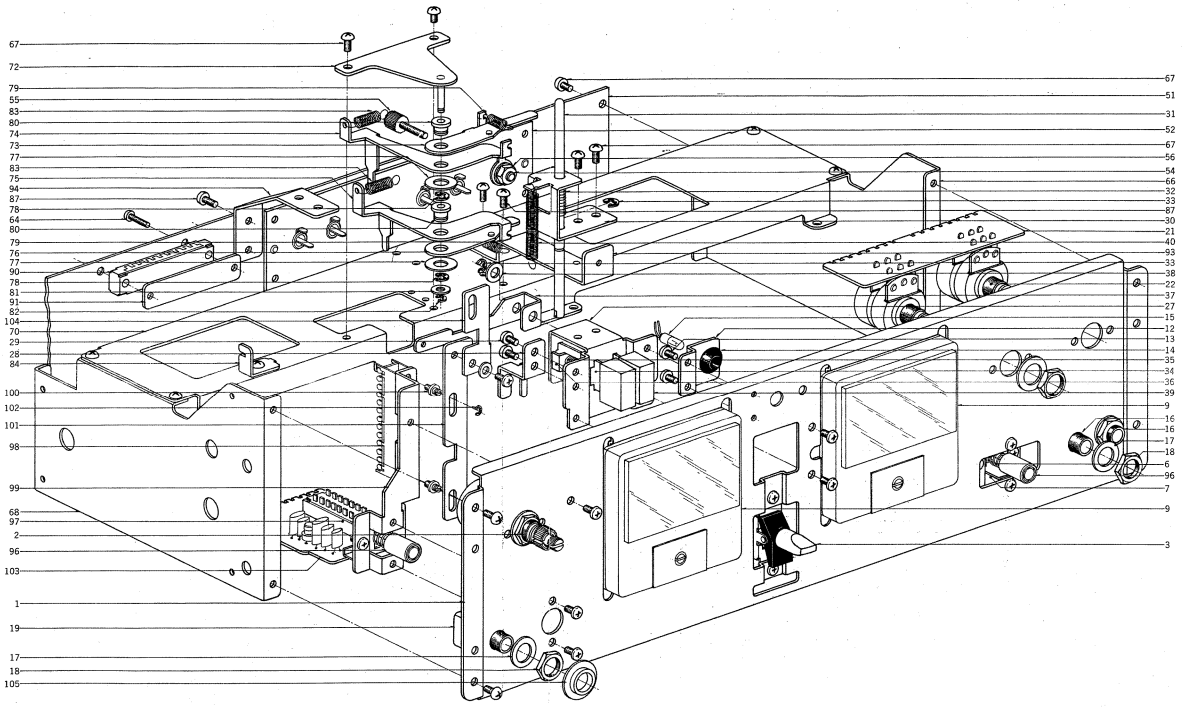
Ref. No.	Parts No.	Description	Schematic No.	Q'ty
		PINCH ROLLER PLUNGER BLOCK		
10-1x	BZ587766	Pinch Roller Plunger Block Comp.	TD	1
10-2	ML396933	Pinch Roller Arm	KD-1030	1
10-3	MZ580781	Pinch Arm Joint, w/pin	TD-2079	1
10-4	ZW345442	Washer (Nylon) D4.2x9x1t		1
10-5	MH533913	Connecting Pin	TW-2010	1
10-6x	ZW270088	'E' Ring 1.9M	6-1-9	4
10-7	MZ802980	Spring Holder	RD-276	2
10-8	ZG428927	Pinch Roller Compression Spring B	KD-1032	1
10-9	EP573658	Plunger Solenoid 1660THT-3	44-1-66	1
10-10x	ED224550	Silicon Diode 10D4	45-2-16	1
10-11	MZ581275	PR Plunger Bracket	TD-1061	1
10-12x	ZS323728	Screw, binding head 3x5		2
10-13	MS582153	Pinch Roller Shaft	TD-1033	1
10-14	ZW416698	Nut M4		1
		MECH. ASSEMBLY BLOCK		
10-15	MZ581466	Mech. Frame	TD-1001	1
10-16	ML581883	Shifter Stopper	TD-1002	2
10-17	ZW273756	Nut M3		12
10-18	MZ810191	Cushion Rubber, RD	RD-278	3
10-19	MH581894	Head Base Prop	TD-1003	3
10-20x	ZS416687	Screw, binding head 4x8		5
10-21	ZS413155	Screw, binding head 3x6		33
10-22	MH581927	Shifter Guide Post	TD-1006	3
10-23	MH581940	Shifter Lever Post A	TD-1008	1
10-24	MH581951	Spring Lever Post	TD-1010	1
10-25x	ZW416698	Nut M4		4
10-26	MH581962	Shifter Lever Post B	TD-1011	1
10-27	MH581973	Brake Lever Post A	TD-1012	1
10-28	MH581984	Brake Lever Post B	TD-1013	1
10-29	MH583345	Release Lever Post	TD-1071	1
10-30	MZ581995	Brake Band Guide, w/base	TD-1014	2
10-31	MC573726	Counter MP490-20, w/base	9-1-33	1
10-32	MZ582028	Head Cover Support	TD-1017	2
10-33	MZ582030	Spring Hanger	TD-1018	3
10-34	ML533643	Brake Lever B	TW-1030	1
10-35	ZW290283	'U' Ring 2.85M	6-1-1	12
10-36	ML582041	Brake Lever A	TD-1019	1
10-37	ML582063	Brake Lever C, w/pin	TD-1021	1
10-38	ZW580173	Guide Washer	TD-1055	1
10-39x	ZW259896	Washer (Lino tape) D5.1x10.3x0.17t		1
10-40	MT314987	Brake Band	MR-213	2
10-41	MZ314998	Brake Band Retaining Plate	MR-212	4
10-42	ML582074	Brake Band Support	TD-1023	2
10-43	MZ314605	Spring Rack, MR	MR-104	2
10-44	ZG540090	Brake Lever Spring	TW-1058	2
10-45	MZ582142	Plunger Bracket	TD-1032	1
10-46	EP574885	Plunger Solenoid SDC-1064PHT 48V 300Ω	44-1-69	1
10-47x	ZS371856	ISO Screw, binding head 3x5		2
10-48x	ED511907	Silicon Diode 1N4002	45-2-51	1
10-49	MH257477	Connecting Pin	RD-211	1
10-50	ML580702	QT SW. Table	TD-2070	1
10-51	ES403727	Micro SW. V-1A106 U/L	25-1-20	1
10-52	ZS413785	Screw, binding head 3x12		2
10-53	ML580127	Middle Pulley Table	TD-1050	1
10-54	MS580116	Middle Pulley Shaft	TD-1049	1
10-55	MR580105	Middle Pulley, w/metal	TD-1048	1
10-56	ZW259738	Washer (Polyslider) D4.1x7x0.25t		1
10-57	MB527556	Counter Belt D93x1.5	ND-1022	1
10-58	MB580138	Counter Belt D73x1.5	TD-1051	1
10-59	ZW259773	Washer (Nylon) D4.1x7x0.5t		1
10-60	ML581130	Reset Spoke	TD-1035	1
10-61	MH581253	Pinch Roller Arm Shaft	TD-1059	1
10-62x	ZW581264	Nut M-5	TD-1060	1
10-63	ZS243516	Screw, pinch roller	XR-140	1
10-64	ZG580770	Pinch Roller Spring	TD-2078	1
10-65	ZG580768	Spoke Spring	TD-2077	1
10-66	MP582164	Pinch Roller D = 42	TD-1034	1
10-67x	MP533744	Pinch Roller D = 36 (PRO)	TW-1040	1
10-68	ZW430402	Washer (Nylon) Roller D6.2x10x0.5t		1
10-69	ZS533766	Pinch Roller Screw	TW-1042	1
10-70	MZ580206	Guide Angle	TD-1058	1
10-71	ML582085	Shifter Lever A, w/pin	TD-1024	1
10-72	MZ581128	Shifter Plate	TD-1028	1
10-73	ML582096	Shifter Lever B	TD-1025	1
10-74	ZW420682	Washer (Nylon) D4.2x9x0.5t		3
10-75	ML582118	Shifter Arm, w/pin	TD-1027	2
10-76	MS580094	Arm Shaft	TD-1047	1
10-77	ML582175	Spring Lever	TD-1036	1
10-78	ML582120	Connecting Bar	TD-1029	1
10-79	ZG582131	Shifter Spring	TD-1030	1
10-80	ZW580173	Guide Washer	TD-1055	3
10-81	ML580026	Shifter Lock Arm A, w/prop	TD-1040	1
10-82	ZG580746	Tension Spring	TD-2074	1
10-83	MZ580061	Shifter Lock Collar	TD-1044	1
10-84	ZW270088	'E' Ring 1.9M	6-1-9	2
10-85	ML580037	Shifter Lock Arm B, w/pin	TD-1041	1
10-86	MZ580162	Pause Spring Hanger	TD-1054	1
10-87	ZG580285	Button Lever Spring	TD-2018	1
10-88	MH580083	Slider Base Post	TD-1046	1
10-89	MZ580072	Slider Base	TD-1045	1
10-90	MS580184	Spoke Guide	TD-1056	1
10-91	ZG583391	Plate Spring	TD-1072	1
10-92x	EJ589331	Nylon Clip SN-10A	2-7-43	1
10-93x	EJ205986	Cramp Terminal 2-SD	32-1-8	10
10-94	MZ527894	Panel Support	ND-1020	1
10-95	ZS325495	Tapping Screw #2 3x6		2
10-96	ML583356	Release Lever A, w/pin	TD-2091	1
10-97	MZ583424	SW Bracket	TD-2098	1
10-98	ZG583413	SW Spring	TD-2097	1
10-99	ZS413785	Screw, binding head 3x12		2
10-100x	MZ581286	Insulator Barrier (1)	TD-1063	1
10-101	ES573456	Micro SW. K-2	25-1-30	1
10-102	MH581938	Shifter Arm Shaft	TD-1007	2

FIG. 10 ILLUSTRATION OF MECHANISM ASSEMBLY BLOCK



AKAI-00181/DRUCK1

FIG. 11 ILLUSTRATION OF AMPLIFIER ASSEMBLY BLOCK



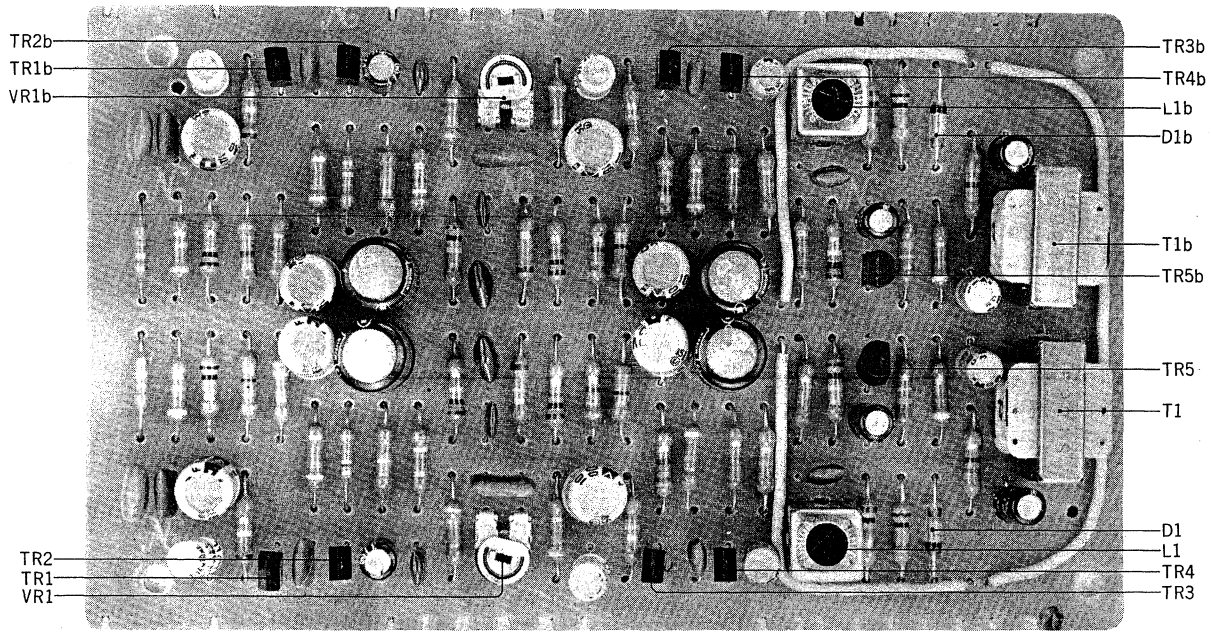
AMPLIFIER ASSEMBLY BLOCK

Ref. No.	Parts No.	Description	Schematic No.	Q'ty
		AMP. FRONT CHASSIS BLOCK		
11-1	EZ581387	Amp. Front Chassis	TD-5001	1
11-2	EV573660	Double/Vol. DJ20A B10kx2	36-3-53	1
11-3	ES565255	Lever SW. 12T-3S040 (Lead type)	25-12-11	1
11-4x	ES565446	Lever SW. S-J6398 (DB)	25-12-12	1
11-5x	ZS371856	ISO Screw, binding head 3x5		4
11-6	ES571094	Push SW. 1FST-2U-378-3	25-5-116	1
11-7	EZ549764	SW. Base B	TW-5306	1
11-8x	ZS323728	Screw, binding head 3x5		2
11-9	EM561756	VU Meter KL-250B-27 (Black)	46-1-79	2
11-10x	EM573748	VU Meter KL-280B-28 (Yellow)	46-1-86	2
11-11x	SE529457	Meter Mask	ND-5043	2
11-12	EZ549797	Lamp Holder	TW-5316	1
11-13	ZS447772	Tapping Screw #2 3x6(BR)		2
11-14	EZ428117	Rubber Bushing	AA-801	1
11-15	EL565468	Pilot Lamp (L/T) 24V 35MA (150M/Mx2)	28-2-24	1
11-16	EJ374016	Mic. Jack 2PMJ1	31-2-23	2
11-17	ZW272722	Toothed Lock Washer M9 D9.3x13x0.5t		3
11-18	ZW554624	E Jack Nut	7-1-56	3
11-19	EJ372892	Mic. Jack 3PMJ1	31-2-24	1
		VOL. P.C. BOARD BLOCK		
11-20x	BA587946	Vol. P.C. Board Block Comp. (TD-5029)	TD	1
11-21	EA581760	Vol. P.C. Board	TD-5010	1
11-22	EV573682	Double/Vol. DJ60R A50kx2	36-3-54	2
11-23x	ER329308	Carbon/R. RD1/4 47k(J) (Insu. type)	35-9-5	4
11-24x	ER565301	Carbon/R. RD1/4 180k(J) (Insu. type)	35-9-5	2
11-25x	ER345756	Carbon/R. RD1/4 68k(J) (Insu. type)	35-9-5	2
		REC. BUTTON BLOCK		
11-26x	BZ587935	Rec. Button Block	TD	1
11-27	EZ528333	Rec. SW. Holder, w/shaft	ND-5002	1
11-28	EZ528208	Safety Guard	ND-5010	1
11-29	ZS447772	Tapping Screw #2 3x6 (BR)		4
11-30	EZ528298	Rod Stand	ND-5008	1
11-31	EZ580915	Rec. Con Rod	TD-5015	1
11-32	ZG580882	Record Spring	TD-5009	1
11-33	ZW270101	'E' Ring 3M	6-1-9	2
11-34	EZ528322	SW. Slider	ND-5004	2
11-35	ZG528311	Coil Spring	ND-5005	2
11-36	EZ528300	Spring Retainer	ND-5006	1
11-37	EZ528467	Stopper	ND-5007	1
11-38	ZW420682	Washer (Nylon) D4.2x9x0.5t		1
11-39	SK528671	Push SW. Knob	ND-5011	2
11-40	ZG520716	RF Spring	3R-150	1
		DOLBY/SOS SW. BLOCK		
11-41x	BS587957	Dolby/Sos. SW. Block Comp. (DB)	TD-3	1
11-42x	ES573693	Push SW. 2FST-6U-561-3	25-5-120	1
11-43x	EZ580972	SW. Base	TD-5020	1
11-44x	SE580983	Lamp Mask	TD-5021	1
11-45x	EZ580994	Lamp Holder	TD-5022	1
11-46x	EZ581005	Lamp Holder Support	TD-5023	1
11-47x	SB581016	Lamp Button A (Green)	TD-5024	1
11-48x	SB581027	Lamp Button B (Orange)	TD-5024	1
11-49x	EL565468	Pilot Lamp (L/T) 24V 35MA (150M/Mx2)	28-2-24	1
11-50x	ZS417137	Screw, binding head 3x4		2

Ref. No.	Parts No.	Description	Schematic No.	Q'ty
		REAR SHASSIS BLOCK		
11-51	EZ529593	Amp. Rear Chassis	ND-5035	1
11-52	EJ581646	Jack Plate (3)	TD-5025	1
11-53x	EJ558246	5P Din Jack	31-1-99	1
11-54	EJ457661	Terminal A	55-5032	1
11-55	EJ457637	Terminal B	55-5033	1
11-56	ZW463410	ISO Nut #3 M5		1
11-57x	ZW463408	Toothed Lock Washer M5		1
11-58x	ZW463397	Earth Lug M5		1
11-59x	ER345712	Carbon/R. RD1/4 22k(J) (Insu. type)	35-9-5	4
11-60x	ER329264	Carbon/R. RD1/4 2.2k(J) (Insu. type)	35-9-5	2
11-61x	ER213647	Carbon/R. RD1/4 10k(J) (Insu. type)	35-9-5	4
11-63x	ZW273756	Nut M3		4
11-64	ZS575910	Screw, binding head 2.3x12		2
11-65x	ZW273688	Nut M2.3		2
		AMP. ASSEMBLY BLOCK		
11-66	EZ528366	Amp. Side Plate (R)	ND-5020	1
11-67	ZS447772	Tapping Screw #2 3x6 (BR)		18
11-68	EZ528377	Amp. Side Plate (L)	ND-5020	1
11-69x	ZS523664	Tapping Screw #2 3x10(BR)		1
11-70	EZ581398	Center Bridge	TD-5002	1
11-71x	EJ328320	Nylon Clip HP-5N	2-7-39	1
11-72	EZ528276	Lever Retaining Plate, w/shaft	ND-5022	1
11-73	ML528851	Sub R Lever A	ND-5025	1
11-74	ML528873	Rec. Lever A	ND-5026	1
11-75	ML528884	Rec. Lever B	ND-5027	1
11-76	ML541484	Sub R Lever C	ND-5053	1
11-77	ZW379361	Washer (Nylon) D6.1x13x0.5t		2
11-78	ZW270123	'E' Ring 4M	6-1-9	2
11-79	ZG528423	Rec. Pull Spring A	ND-5028	2
11-80	ZW544083	Sleeve	ND-5055	2
11-81	ZW317171	Washer (PBP) D3.1x8x0.1t		3
11-82	ZW270088	'E' Ring 1.9M	6-1-9	1
11-83	ZG529683	Rec. Pull Spring B	ND-5029	2
11-84	EZ580893	P.C. Board Holder	TD-5011	4
11-85x	EZ581635	P.C. Board Angle A (Large)	TD-5013	1
11-86x	EZ580904	P.C. Board Angle B (Small)	TD-5014	1
11-87	ZS447772	Tapping Screw #2 3x6 (BR)		17
11-88x	EJ299823	Mate-N-Lock Cap Housing 6P 1-480276-0	52-1-2	1
11-89x	EJ373623	Pin Contact 61116-1	52-1-1	5
11-90	EJ292961	Multi-Jack 10P 500-010-005	31-4-4	1
11-91	EZ530021	Jack Nut Plate	ND-5052	1
11-92x	ZS462947	Screw, pan head 2.3x12		2
11-93	EZ528963	Am p. Supporting Plate A	ND-5040	1
11-94	EZ528952	Amp. Supporting Plate B	ND-5041	1
11-95x	ZS413155	Screw, binding head 3x6		2
11-96	SK531224	Push Button Knob	91-5051	2
11-97	ES573671	Push SW. 1FST-6U-122-3	25-5-119	1
11-98	ES574446	Slide SW. SSBO8223	25-3-101	1
11-99	EZ580871	SW. Mt. Parts	TD-5008	1
11-100	VM422381	Slide Plate Shaft	PX-A206	2
11-101	EZ580860	Speed SW. Lever	TD-5007	1
11-102	ZW357164	'E' Ring 2.3M	6-1-9	2
11-103	BA587913	SRT P.C. Board (B) Block	TD-5201	1
11-104	SZ580735	Speed Change Plate	TD-2073	1
11-105	EZ436217	Collar For Jack	MC-5006	3

When ordering parts, please describe Parts Number, Serial Number, and Model Number in detail.

FIG. 12 PHOTO OF P.B. P.C. BOARD (TD-5004) BLOCK

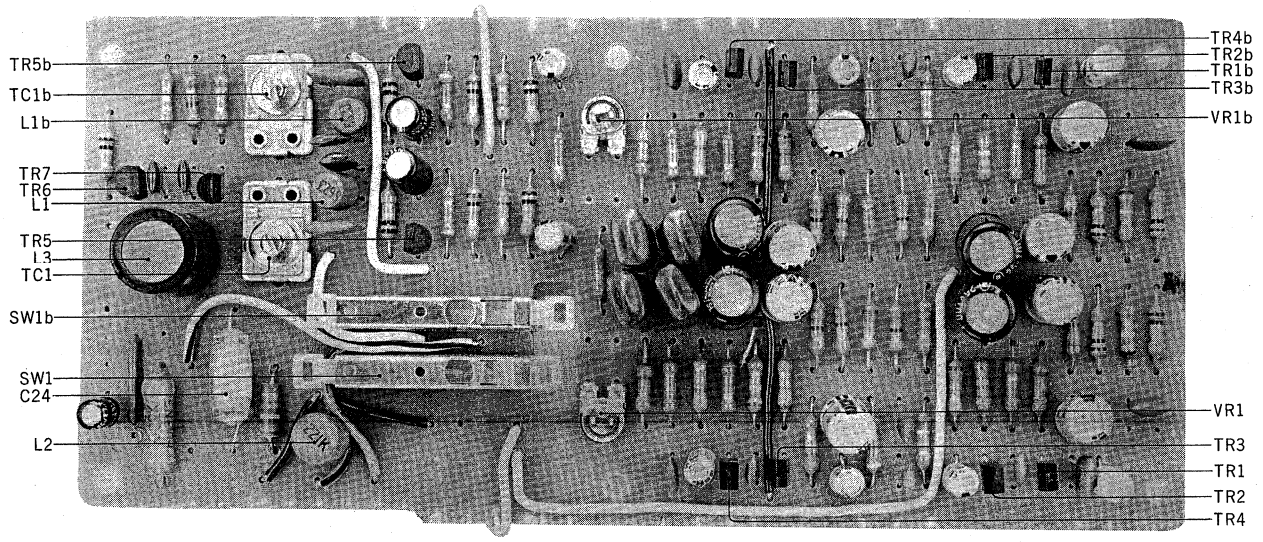


PB. P.C. BOARD (TD-5004) BLOCK

Symbol No.	Parts No.	Description	Q'ty
12-1x	BA587981	PB. P.C. Board Block Comp. (TD-5004)	1
12-TR1to4	ET234854	Transistor 2SC458LG(C)	8
12-TR5	ET453486	Transistor 2SC711(E)(F)	2
12-D1	ED219464	Germanium Diode 1N34A	2
12-VR1	EV464220	Semi-fixed/Vol. V8K4-1 50 kB	2
12-L1	EO346230	Inductor RX 22MH	2
12-T1	BT517274	Headphone Trans. N16-535S	2
		Capacitor, Vertical Type	
12-C1	EC220151	Elect. 100μF 25WV	2
12-C2	EC432810	Elect. 10μF 16WV	2
12-C3	EC467133	VFM 68PF(J) 50WV	2
12-C4	EC290520	VFM 100PF(J) 50WV	2
12-C5	EC336104	Elect. 100μF 6.3WV	2
12-C6	EC290520	VFM 100PF(J) 50WV	2
12-C7	EC320051	Elect. 10μF 16WV	2
12-C8	EC336104	Elect. 100μF 6.3WV	2
12-C9	EC392038	Mylar 0.018μF(J) 50WV	2
12-C10, 11	EC335373	Mylar 0.0022μF(J) 50WV	4
12-C12	EC220151	Elect. 100μF 25WV	2
12-C13	EC432810	Elect. 10μF 16WV NL	2
12-C14	EC329850	VFM 220PF(J) 50WV	2
12-C15	EC336104	Elect. 100μF 6.3WV	2
12-C16	EC399565	VFM 22PF(J) 50WV	2
12-C17	EC320051	Elect. 10μF 16WV	2
12-C18	EC336104	Elect. 100μF 6.3WV	2
12-C19	EC377212	VFM 47PF(J) 50WV	2
12-C20	EC450055	Elect. 1μF 25WV	2
12-C21	EC320051	Elect. 10μF 16WV	2
12-C22	EC450055	Elect. 1μF 25WV	2

Symbol No.	Parts No.	Description	Q'ty
		Resistor, Insulator Type	
12-R1	ER559067	Carbon RD1/4 330k(J)	2
12-R2	ER330063	Carbon RD1/4 47k(J)	2
12-R3	ER559067	Carbon RD1/4 330k(J)	2
12-R4	ER368111	Carbon RD1/4 10k(J)	2
12-R5	ER368076	Carbon RD1/4 330(J)	2
12-R6	ER330041	Carbon RD1/4 150k(J)	2
12-R7	ER368133	Carbon RD1/4 22k(J)	2
12-R8	ER364375	Carbon RD1/4 3.3k(J)	2
12-R9	ER575548	Carbon RD1/4 4.3k(J)	2
12-R10	ER330120	Carbon RD1/4 100k(J)	2
12-R11	ER575537	Carbon RD1/4 3.9k(J)	2
12-R12	ER364375	Carbon RD1/4 3.3k(J)	2
12-R13	ER368122	Carbon RD1/4 18k(J)	2
12-R14	ER337353	Carbon RD1/4 4.7k(J)	2
12-R15	ER330063	Carbon RD1/4 47k(J)	2
12-R16	ER337342	Carbon RD1/4 1k(J)	2
12-R17	ER368076	Carbon RD1/4 330(J)	2
12-R18	ER330052	Carbon RD1/4 2.2k(J)	2
12-R19	ER368177	Carbon RD1/4 82k(J)	2
12-R20	ER330052	Carbon RD1/4 2.2k(J)	2
12-R21	ER368076	Carbon RD1/4 330(J)	2
12-R22	ER575526	Carbon RD1/4 220(J)	2
12-R23	ER368133	Carbon RD1/4 22k(J)	2
12-R24	ER337342	Carbon RD1/4 1k(J)	2
12-R25	ER368111	Carbon RD1/4 10k(J)	2
12-R26	ER330120	Carbon RD1/4 100k(J)	2
12-R27	ER537388	Carbon RD1/4 68k(J)	2
12-R28	ER337353	Carbon RD1/4 4.7k(J)	2
12-R29	ER575550	Carbon RD1/4 750(J)	2

FIG. 13 PHOTO OF REC. & OSC. P.C. BOARD (TD-5003) BLOCK

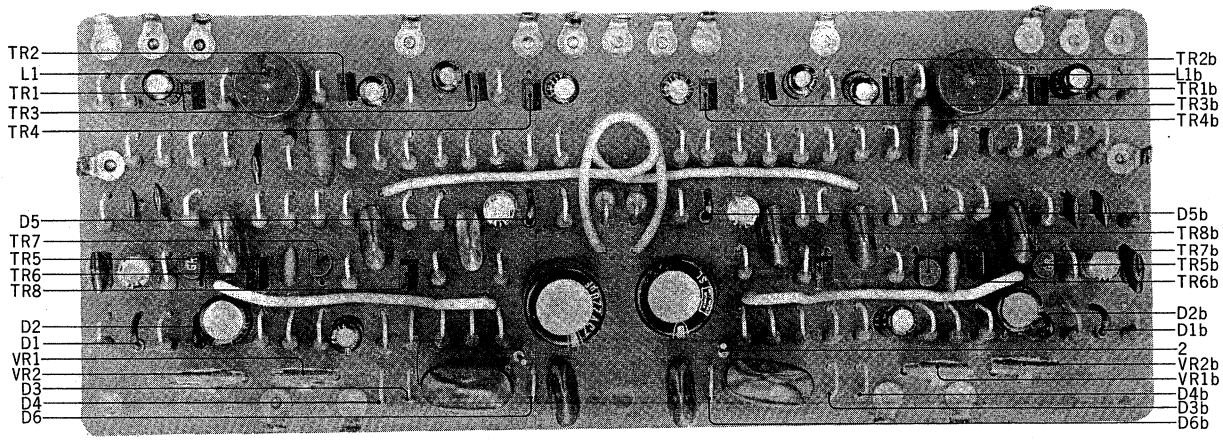


REC. & OSC. P.C. BOARD (TD-5003) BLOCK

Symbol No.	Parts No.	Description	Q'ty
13-1x	BA587968	Rec. & Osc. P.C. Board Comp. (TD-5003)	1
13-2x	BA587970	Rec. & Osc. P.C. Board Comp. (TD-5003) (DB)	1
13-TR1 to 4	ET234854	Transistor 2SC458LG(C)	8
13-TR5	ET453486	Transistor 2SC711(E) (F)	2
13-TR6, 7	ET495415	Transistor 2SC1211(D)	2
13-VR1	EV464207	Semi-fixed/Vol. V8K4-1 5 kB	2
13-TC1	EC398878	Trimmer/C. C-1P-2 70PF	2
13-L1	EO321254	Ferri Inductor FL7H 5.6MH(J)	2
13-L2	EO390622	Ferri Inductor FL9H 220μF(K)	1
13-L3	EO383365	Osc. Coil OT-204	1
13-L4	EO390622	Ferri Inductor FL9H 220μF(K)	1
13-SW1	ES520784	Slide SW. CL-104BO	2
		Capacitor, Vertical Type	
13-C1	EC290520	VFM 100PF(J) 50WV	2
13-C2	EC220151	Elect. 100μF 25WV	2
13-C3	EC432810	Elect. 10μF 16WV NL	2
13-C4	EC290520	VFM 100PF(J) 50WV	2
13-C5	EC336104	Elect. 100μF 6.3WV	2
13-C6, 7	EC399565	VFM 22PF(J) 50WV	4
13-C8	EC320051	Elect. 10μF 16WV	2
13-C9	EC336104	Elect. 100μF 6.3WV	2
13-C10	EC220151	Elect. 100μF 25WV	2
13-C11	EC377212	VFM 47PF(J) 50WV	2
13-C12	EC320051	Elect. 10μF 16WV	2
13-C13	EC336104	Elect. 100μF 6.3WV	2
13-C14	EC399565	VFM 22PF(J) 50WV	2
13-C15	EC290520	VFM 100PF(J) 50WV	2
13-C16	EC336104	Elect. 100μF 6.3WV	2
13-C17	EC320051	Elect. 10μF 16WV	2
13-C18, 19	EC333562	Mylar 0.18μF(K) 50WV	4
13-C20	EC320051	Elect. 10μF 16WV	2
13-C21	EC220994	Elect. 10μF 25WV	2
13-C22	EC380621	Mylar 0.0068μF(J) 50WV	2
13-C23	EC389237	VFM 200PF(J) 50WV	2
13-C24	EC573636	Plastic Film 620PF(J) 500WV	1
13-C25, 26	EC250841	Mylar 0.01μF(J) 50WV	2
13-28	EC450527	Elect. 4.7μF 25WV	1
13-29	EC336115	Elect. 220μF 25WV	1

Symbol No.	Parts No.	Description	Q'ty
		Resistor, Insulator Type	
13-R1	ER368111	Carbon RD1/4 10k(J)	2
13-R2	ER559067	Carbon RD1/4 330k(J)	2
13-R3	ER368111	Carbon RD1/4 10k(J)	2
13-R4	ER558606	Carbon RD1/4 680(J)	2
13-R5	ER330041	Carbon RD1/4 150k(J)	2
13-R6	ER330052	Carbon RD1/4 2.2k(J)	2
13-R7	ER368122	Carbon RD1/4 18k(J)	2
13-R8	ER337397	Carbon RD1/4 2.7k(J)	2
13-R9	ER575616	Carbon RD1/4 1.6k(J)	2
13-R10	ER368122	Carbon RD1/4 18k(J)	2
13-R10	ER368133	Carbon RD1/4 22k(J) (DB)	2
13-R11	ER476313	Carbon RD1/2 220(J)	2
13-R12	ER337353	Carbon RD1/4 4.7k(J)	2
13-R13	ER537366	Carbon RD1/4 120k(J)	2
13-R14	ER575605	Carbon RD1/4 8.2k(J)	2
13-R15	ER558584	Carbon RD1/4 270(J)	2
13-R16	ER368177	Carbon RD1/4 82k(J)	2
13-R18	ER330164	Carbon RD1/4 1.8k(J)	2
13-R19	ER575550	Carbon RD1/4 750(J)	2
13-R20	ER368133	Carbon RD1/4 22k(J)	2
13-R21	ER575594	Carbon RD1/4 36k(J)	2
13-R22	ER558573	Carbon RD1/4 27k(J)	2
13-R23	ER364375	Carbon RD1/4 3.3k(J) (DB)	2
13-R24	ER368098	Carbon RD1/4 1.2k(J) (DB)	2
13-R25	ER330052	Carbon RD1/4 2.2k(J)	2
13-R26	ER558573	Carbon RD1/4 27k(J)	2
13-R27	ER368111	Carbon RD1/4 10k(J)	2
13-R28	ER337342	Carbon RD1/4 1k(J)	2
13-R29	ER337353	Carbon RD1/4 4.7k(J)	2
13-R30	ER368111	Carbon RD1/4 10k(J)	2
13-R31	ER368087	Carbon RD1/4 470(J)	1
13-R32, 33	ER575583	Carbon RD1/4 3.3(J)	2
13-R34	ER368111	Carbon RD1/4 10k(J)	1
13-R35	ER426892	Solid RC1/2 2.4k(J)	1
13-R38	BZ483287	Metal Oxide Film 2W 100(K)	1
13-R39	ER552802	Carbon RD1/2 100(J)	1

FIG. 14 PHOTO OF DOLBY P.C. BOARD (TD-5301) BLOCK



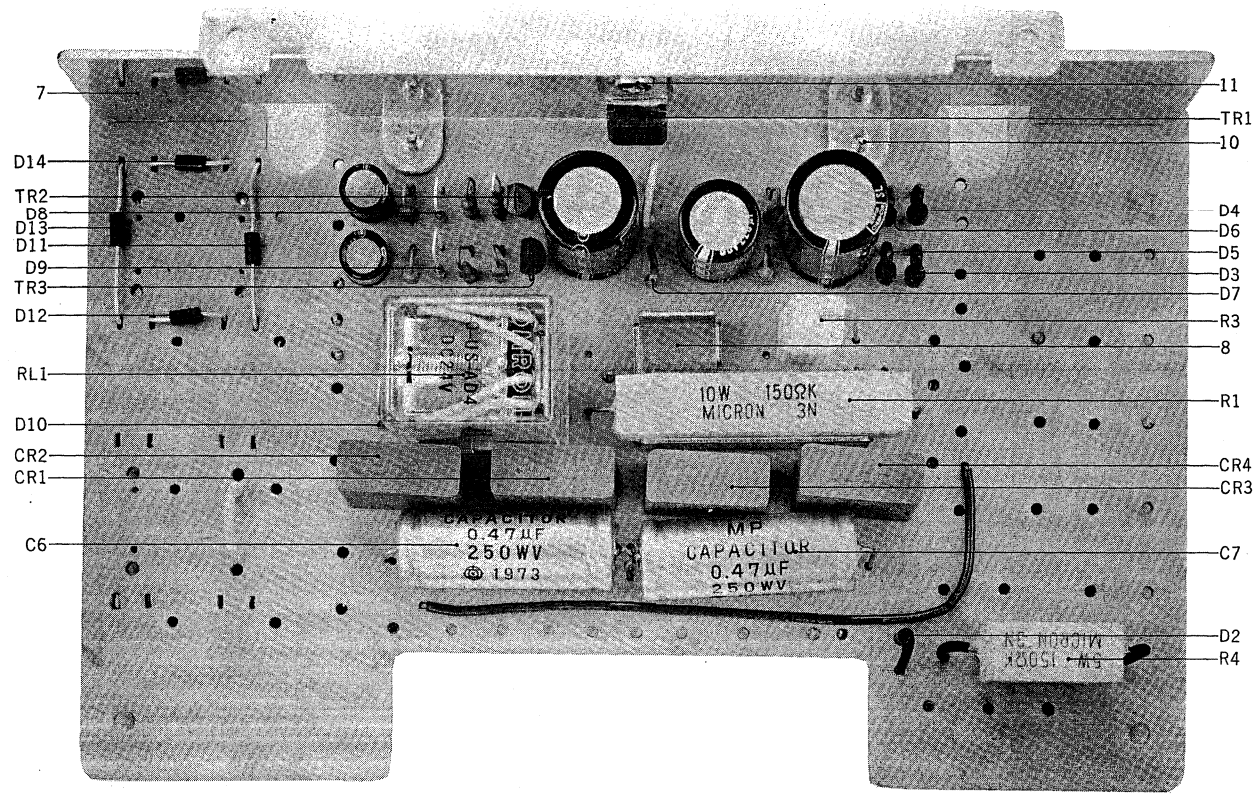
DOLBY P.C. BOARD (TD-5301) BLOCK

Symbol No.	Parts No.	Description	Q'ty
14-1x	BA588003	Dolby P.C. Board Comp. (TD-5301)	1
14-TR1	ET234854	Transistor 2SC458LG(C)	2
14-TR2	ET329218	Transistor 2SC458(C)	2
14-TR3	ET352146	Transistor 2SC458LG(D)	2
14-TR4	ET329218	Transistor 2SC458(C)	2
14-TR5	ET391051	FET 2SK30A(GR)	2
14-TR6	ET234854	Transistor 2SC458LG(C)	2
14-TR7	ET350335	Transistor 2SA564(Q)	2
14-TR8	ET329218	Transistor 2SC458(C)	2
14-D1	ED219464	Germanium Diode 1N34A	2
14-D2	ED491130	Zener Diode WZ-085	2
14-D3, 4	ED560913	Silicon Diode 1S2473 VE	4
14-D5	ED219464	Germanium Diode 1N34A	2
14-D6	ED560913	Silicon Diode 1S2473 VE	2
14-VR1	EV523620	Semi-Fixed/Vol. V8K4-1 500 ΩB	2
14-VR2	EV464207	Semi-Fixed/Vol. V8K4-1 5 kB	2
14-L1	EO496350	Inductor 146LY 36 MH(J)	2
14-2	EJ363126	P.C.Board Terminal	2
		Capacitor, Vertical Type	
14-C1	EC320051	Elect. 10μF 16WV	2
14-C2	EC350875	Mylar 0.001μF(J) 50WV	2
14-C3	EC336194	VFM 270PF(J) 50WV	2
14-C4, 5,6	EC320051	Elect. 10μF 16WV	6
14-C7	EC313121	Elect. 220μF 25WV	2
14-C8	EC329883	Mylar 0.0056μF(J) 50WV	2
14-C9	EC329861	Mylar 0.027μF(J) 50WV	2
14-C10	EC337500	Mylar 0.0047μF(J) 50WV	2
14-C11	EC320051	Elect. 10μF 16WV	2
14-C12	EC379170	Mylar 0.1μF(J) 50WV	2
14-C13	EC320040	Elect. 47μF 16WV	2
14-C14	EC290520	VFM 100PF(J) 50WV	2
14-C15	EC320051	Elect. 10μF 16WV	2
14-C16	EC379170	Mylar 0.1μF(J) 50WV	2
14-C17	EC320051	Elect. 10μF 16WV	2
14-C18,19	EC379170	Mylar 0.1μF(J) 50WV	4
14-C20	EC395504	Mylar 0.33μF(K) 50WV	2

Symbol No.	Parts No.	Description	Q'ty
		Resistor, Stopper Type	
14-R1	ER419556	Carbon RD1/4 43k(J)	2
14-R2	ER336442	Carbon RD1/4 10k(J)	2
14-R3	ER306887	Carbon RD1/4 15k(J)	2
14-R4	ER346601	Carbon RD1/4 47k(J)	2
14-R5	ER429996	Carbon RD1/4 470k(J)	2
14-R6	ER212477	Carbon RD1/4 3.3k(J)	2
14-R7	ER304402	Carbon RD1/4 470(J)	2
14-R8	ER212264	Carbon RD1/4 22k(J)	2
14-R9	ER336442	Carbon RD1/4 10k(J)	2
14-R10	ER343078	Carbon RD1/4 2.7k(J)	2
14-R11	ER349907	Carbon RD1/4 33k(J)	2
14-R12	ER397570	Carbon RD1/4 150k(J)	2
14-R13	ER212174	Carbon RD1/4 180k(J)	2
14-R14	ER212264	Carbon RD1/4 22k(J)	2
14-R15	ER357570	Carbon RD1/4 150k(J)	2
14-R16	ER212264	Carbon RD1/4 22k(J)	2
14-R17	ER349942	Carbon RD1/4 8.2k(J)	2
14-R18	ER343078	Carbon RD1/4 2.7k(J)	2
14-R19	ER458728	Carbon RD1/2 100(J)	2
14-R20,21	ER349907	Carbon RD1/4 33k(J)	4
14-R22	ER357535	Carbon RD1/4 39k(J)	2
14-R23	ER212477	Carbon RD1/4 3.3k(J)	2
14-R24	ER349942	Carbon RD1/4 8.2k(J)	2
14-R25	ER306843	Carbon RD1/4 1.2k(J)	2
14-R26	ER430097	Carbon RD1/4 680k(J)	2
14-R27	ER357456	Carbon RD1/4 2.2k(J)	2
14-R28	ER306887	Carbon RD1/4 15k(J)	2
14-R29to31	ER349942	Carbon RD1/4 8.2k(J)	6
14-R32	ER336442	Carbon RD1/4 10k(J)	2
14-R33	ER349907	Carbon RD1/4 33k(J)	2
14-R34	ER450011	Carbon RD1/4 120k(J)	2
14-R35	ER346601	Carbon RD1/4 47k(J)	2
14-R36	ER343078	Carbon RD1/4 2.7k(J)	2
14-R37	ER211465	Carbon RD1/4 1k(J)	2
14-R38	ER380913	Carbon RD1/4 33(J)	2
14-R39	ER361642	Carbon RD1/4 47(J)	2
14-R40	ER306887	Carbon RD1/4 15k(J)	2
14-R41,42	ER426857	Carbon RD1/4 270k(J)	4
14-R43	ER380711	Carbon RD1/4 220k(J)	2

When ordering parts, please describe Parts Number, Serial Number, and Model Number in detail.

FIG. 15 PHOTO OF POWER SUPPLY P.C. BOARD (TD-2060) BLOCK



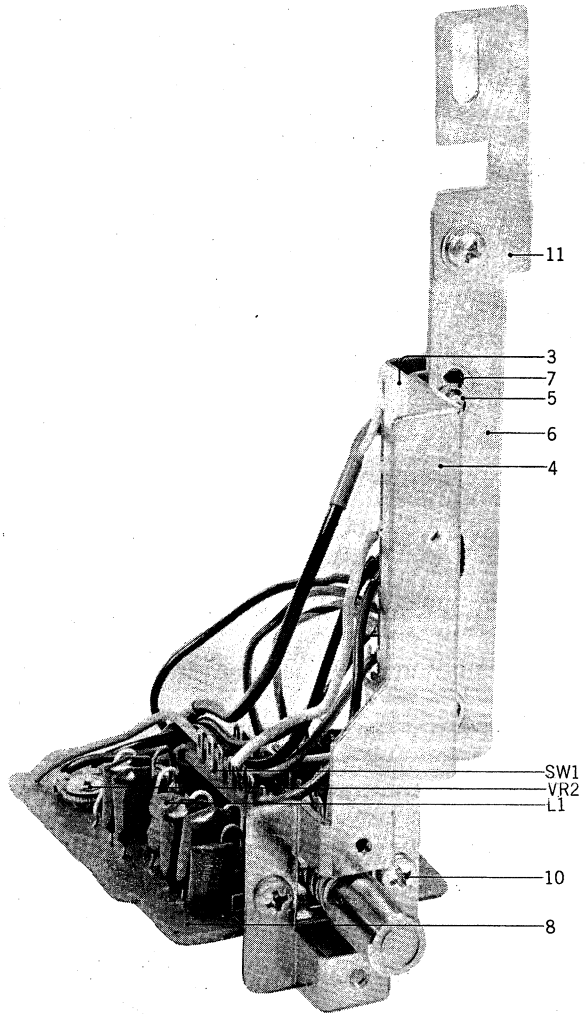
POWER SUPPLY P.C. BOARD (TD-2060) BLOCK

Symbol No.	Parts No.	Description	Q'ty
15-1x	BA587698	Power Supply P.C. Board Comp. (TD-2060)	1
15-2x	BA589847	Power Supply P.C. Board Comp. (TD-2060)(UL)	1
15-3x	BA587711	Power Supply P.C. Board Comp. (TD-2060)(EC,JPN)	1
15-4x	BA587700	Power Supply P.C. Board Comp. (TD-2060) (pro)	1
15-5x	BA589858	Power Supply P.C. Board Comp. (TD-2060) (pro-UL)	1
15-6x	BA587722	Power Supply P.C. Board Comp. (TD-2060) (pro-EC, JPN)	1
15-TR1	ET517375	Transistor 2SD360(D)(E)	1
15-TR2, 3	ET453486	Transistor 2SC711(E)(F)	2
15-D2	ED224550	Silicon Diode 10D4	1
15-D3 to 6	ED494583	Silicon Diode 10D05	4
15-D7	ED511918	Zener Diode WZ-240	1
15-D8 to 10	ED560913	Silicon Diode 1S2473 VE	3
15-D11 to 14	ED224550	Silicon Diode 10D4	4
15-RL1	EP344136	Relay MY4-0-US-AD4 24V	1
15-CR1 to 4	ER376435	Spark Quencher U/L 0.1μ+120Ω 250WV	4
15-7	EZ581624	Heat-sink Plate	1
15-8	EZ580623	Cement/R. Base	1
15-9x	ZS413155	Screw, binding head 3x6	2
15-10	ZS447840	Tapping Screw #2 3x8(BR)	2
15-11	ZS413741	Screw, binding head 3x8	1
15-12x	ZW273756	Nut M3	1
15-13x	EJ580825	Fuse Hodler	14
15-14x	EZ581804	Insulator Barrier 2	1

Symbol No.	Parts No.	Description	Q'ty
		Capacitor, Vertical Type	
15-C1	EC403468	Elect. 330μF 50WV	1
15-C2	EC372148	Elect. 220μF 35WV	1
15-C3	EC331817	Elect. 470μF 25WV	1
15-C4, 5	EC220612	Elect. 33μF 25WV	2
15-C6, 7	EC350987	MP 0.47μF(M) 250VAC(Tub. type)	2
		Resistor, Stopper Type	
15-R1	ER573524	Cement 10W 150(K) (Wire-wound type)	1
15-R3	ER535948	Cement 5W 10(K)	1
15-R4	ER573715	Cement 5W 150(K) (Wire-wound type)	1
15-R5	ER306843	Carbon RD1/4 1.2k(J)	1
15-R6	ER211667	Carbon RD1/4 100(J)	2
15-R8	ER211465	Carbon RD1/4 1k(J)	1
15-R9	ER336442	Carbon RD1/4 10k(J)	1
15-R10	ER380711	Carbon RD1/4 220k(J)	1
15-R11	ER211667	Carbon RD1/4 100(J)	1
15-R12	ER362485	Carbon RD1/4 330k(J)	1
15-R13	ER212883	Carbon RD1/4 4.7k(J)	1

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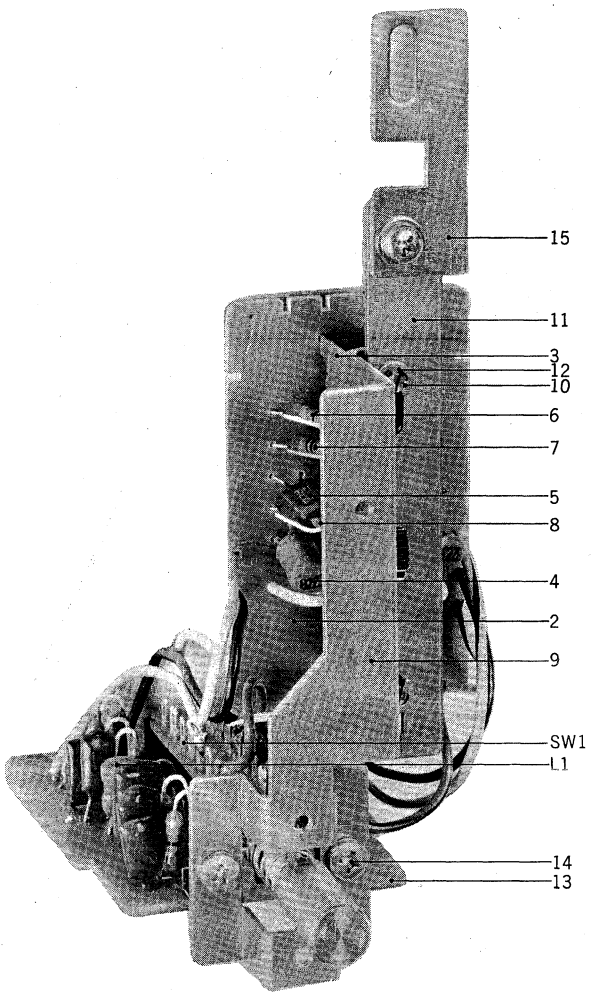
FIG. 16 PHOTO OF SPEED CHANGE/SRT P.C. BLOCK



SPEED CHANGE/SRT P.C. BLOCK

Symbol No.	Parts No.	Description	Q'ty
		SPEED CHANGE SW. P.C. BLOCK	
16-1x	BA587878	Speed Change SW. P.C. Block Comp.	1
16-2x	BA587891	Speed Change SW. P.C. Block Comp. (DB)	1
16-3	ES574446	Slide SW. SSBO8223	1
16-4	EZ580871	SW. Retaining Parts	1
16-5	VM422381	Slide Plate Shaft	2
16-6	EZ580860	Speed SW. Lever	1
16-7	ZW357164	'E' Ring 2.3M	2
16-8	BA587913	SRT P.C. Board B(TD-5201) Comp.	1
16-9x	BA587924	SRT P.C. Board B(TD-5201) Comp. (DB)	1
16-10	ZS371856	ISO Screw, binding head 3x5	2
16-11	SZ580735	Speed Change Plate	1
		SRT P.C. BOARD B (TD-5201) BLOCK	
16-8	BA587913	SRT P.C. Board B (TD-5201) Comp.	1
16-9x	BA587924	SRT P.C. Board B (TD-5201) Comp. (DB)	1
16-SW1	ES573671	Push SW. 1FST-6U-122-3	1
16-VR1, 2	EV522797	Semi-Fixed/Vo. V8K4-1 20kB (DB)	1
16-L1	EO369178	Ferri Inductor FL7H 1.5MH(J)	2
		Capacitor, Vertical Type	
16-C1	EC329861	Mylar 0.027μF(J) 50WV	2
16-C2	EC379214	Mylar 0.047μF(J) 50WV	2
16-C3	EC368335	Mylar 0.022μF(J) 50WV	2
16-C4	EC379214	Mylar 0.047μF(J) 50WV	2
16-C5	EC379192	Mylar 0.039μF(J) 50WV	2
		Resistor, Stopper Type	
16-R1	ER349784	Carbon RD1/4 390(J)	2
16-R2	ER213120	Carbon RD1/4 56(J)	2
16-R3	ER362441	Carbon RD1/4 1.8k(J)	2
16-R4	ER406923	Carbon RD1/4 75(J)	2
16-R5	ER380913	Carbon RD1/4 33(J)	2
16-R6	ER430053	Carbon RD1/4 22(J)	2

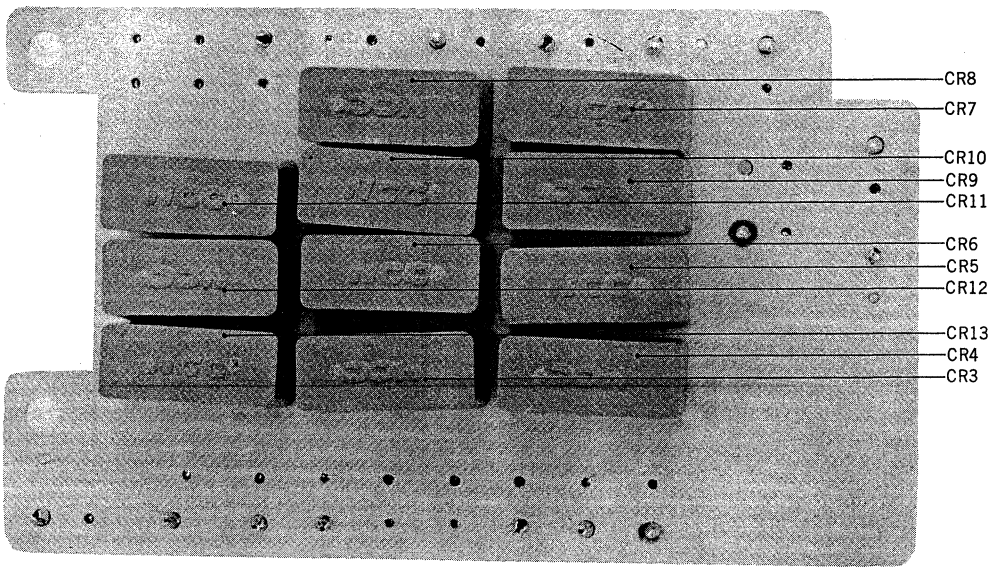
FIG. 17 PHOTO OF SPEED CHANGE/SRT P.C. BLOCK (PRO)



SPEED CHANGE/SRT P.C. BLOCK (PRO)

Symbol No.	Parts No.	Description	Q'ty
		SPEED CHANGE SW. P.C. BLOCK	
17-1x	BA587880	Speed Change SW. P.C. Block Comp. (PRO)	1
17-2	EA581758	Speed Change SW. P.C. Board	1
17-3	ES520672	Slide SW. SL-282B4	1
17-4	EO379923	Ferri Inductor FL7H 8.2 mH(J)	2
17-5	EC250841	Mylar/C. 0.01μF(J) 50WV (Vert. type)	2
17-6	ER380913	Carbon/R. RD1/4 33(J) (Stop. type)	2
17-7	ER211667	Carbon/R. RD1/4 100(J) (Stop. type)	2
17-8	ER350065	Carbon/R. RD1/4 430(J) (Stop. type)	2
17-9	EZ580871	SW. Retaining Parts	1
17-10	VM422381	Slide Plate Shaft	2
17-11	EZ580860	Speed SW. Lever	1
17-12	ZW357164	'E' Ring 2.3M	2
17-13	BA587902	SRT P.C. Board A (TD-5006) Comp. (PRO)	1
17-14	ZS371856	ISO Screw, binding head 3x5	2
17-15	SZ580735	Speed Change Plate	1
		SRT P.C. BOARD A (TD-5006) BLOCK	
17-13	BA587902	SRT P.C. Board A (TD-5006) Comp. (PRO)	1
17-SW1	ES573671	Push SW. 1FST-6U-122-3	1
17-L1	EO369178	Ferri Inductor FL7H 1.5MH(J)	2
		Capacitor, Vertical Type	
17-C1	EC250841	Mylar 0.01μF(J) 50WV	2
17-C2	EC411827	Mylar 0.0082μF(J) 50WV	2
17-C3	EC329861	Mylar 0.027μF(J) 50WV	2
17-C4	EC379214	Mylar 0.047μF(J) 50WV	2
17-C5	EC368335	Mylar 0.022μF(J) 50WV	2
		Resistor, Stopper Type	
17-R1	ER213096	Carbon RD1/4 510(J)	2
17-R2	ER349784	Carbon RD1/4 390(J)	2
17-R3, 4	ER380913	Carbon RD1/4 33(J)	4
17-R5	ER213120	Carbon RD1/4 56(J)	2
17-R6	ER362441	Carbon RD1/4 1.8k(J)	2
17-R7	ER406923	Carbon RD1/4 75(J)	2

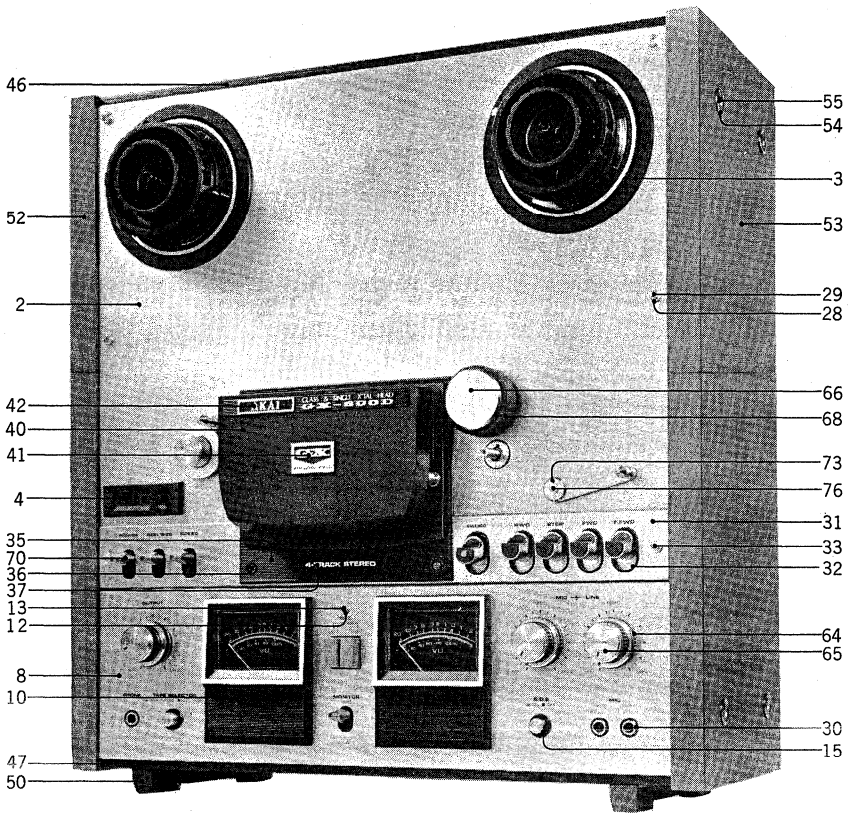
FIG. 18 PHOTO OF SPARK QUENCHER P.C. BOARD (A) (TD-2086) BLOCK

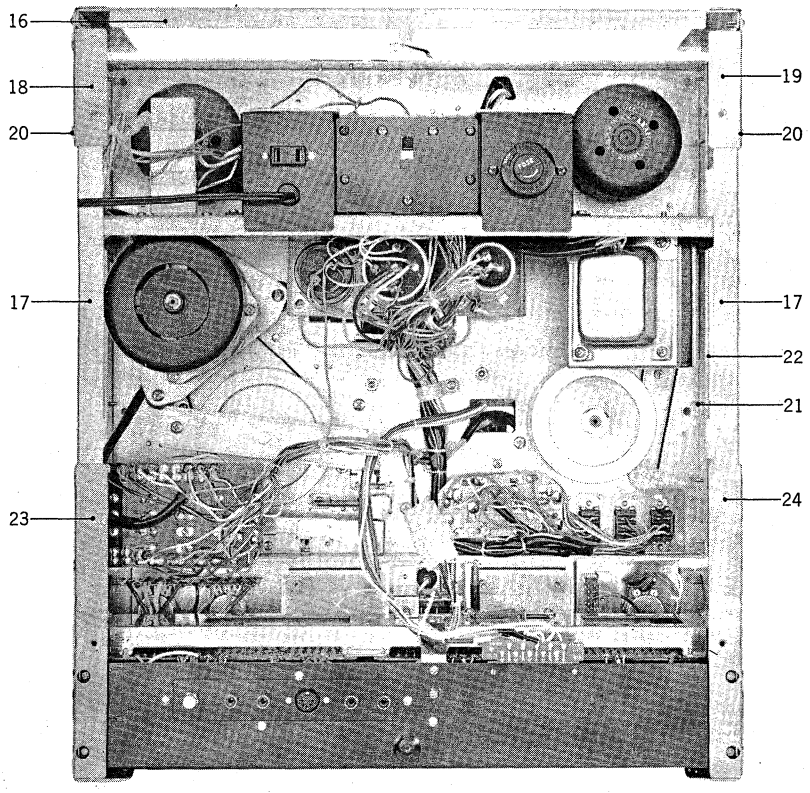


SPARK QUENCHER P.C. BOARD (A) (TD-2086) BLOCK

Symbol No.	Parts No.	Description	Q'ty
18-1x	BA587586	Spark Quencher P.C. Board (A) Comp. (TD-2086)	1
18-CR3to13	ER376435	Spark Quencher U/L 0.1μ+120Ω 250WV	11

FIG. 19 PHOTO OF FINAL ASSEMBLY BLOCK





FINAL ASSEMBLY BLOCK

Ref. No.	Parts No.	Description	Schematic No.	Q'ty
		MECH. PANEL BLOCK		
19-1x	BZ587373	Mech. Panel Block Comp.	TD	1
19-2	SP581455	Mech. Panel	TD-6001	1
19-3	SE581602	Reel Table Escutcheon 2	TD-6021	2
19-4	SE528906	Counter Escutcheon	ND-6008	1
19-5x	ZW575730	Speed Nut (P Type) 3M	6-3-6	8
		AMP. PANEL BLOCK		
19-6x	BZ587384	Amp. Panel Block Comp.	TD-1, 2	1
19-7x	BZ587395	Amp. Panel Block Comp. (DB)	TD-3	1
19-8	SP581422	Amp. Panel A	TD-6004	1
19-9x	SP581512	Amp. Panel B (DB)	TD-6004	1
19-10	SZ473815	VU Meter Cover	KH-6020	2
19-11x	ZS355500	Screw, binding head 2.6x5		6
19-12	SZ457806	Lens Holder	55-5013	1
19-13	EL569878	Lamp Lense A-2 (Red)	55-5011	1
19-14x	ZW405865	Washer (Nylon) D5.2x10.3x0.5t		1
19-15	SE569744	Knob Escutcheon	TD-6017	2
		FINAL ASSEMBLY BLOCK		
19-16	SZ529920	Reinforcement Angle A	ND-6003	1
19-17	SZ529086	Reinforcement Angle B	ND-6004	2
19-18	SZ581534	Mech. Side Plate A (Right)	TD-6006	1
19-19	SZ581545	Mech. Side Plate B (Left)	TD-6006	1
19-20	ZS419736	Screw, binding head 4x6		8
19-21	ZS447840	Tapping Screw #2 3x8 (BR)		12
19-22	SZ581040	Panel Support	TD-6012	2
19-23	MZ529931	Mech. Side Plate C (Right)	ND-6002	1
19-24	MZ529942	Mech. Side Plate D (Left)	ND-6002	1
19-25x	SZ581218	Amp. Panel Support A (Right)	TD-6018	1
19-26x	SZ581220	Amp. Panel Support B (Left)	TD-6018	1
19-27x	ZS447772	Tapping Screw #2 3x6 (BR)		6
19-28	ZW408418	Panel Washer	KD-6029	6
19-29	ZS203084	Screw, oval countersunk head 3x8		4
19-30	EZ436217	Collar For Jack	MC-5006	3
19-31	SP581433	Control Panel	TD-6005	1
19-32	SE581038	Operation Button Escutcheon	TD-6007	5
19-33	ZS408690	Screw, oval countersunk head 3x10		2
19-34x	ZS200687	Tapping Screw #2 3x6 (Round)		2
19-35	SC581400	Head Cover Base	TD-6002	1
19-36	ZW421740	Screw, pan head 3x8 (Black)		2
19-37	SM581084	Name Plate (4TR)	TD-6024	1
19-38x	SM581073	Name Plate (2TR)	TD-6023	1
19-39x	SM495977	Name Plate (DB)	KD-A6207	1
19-40	SC581411	Head Cover	TD-6003	1
19-41	SM382285	GX Symbol Plate	RD-A633	1
19-42	SM581062	Name Plate GX-600D	TD-6022	1
19-43x	SM583323	Name Plate (DB)	TD-6031	1
19-44x	ZW527670	Head Cover Retaining Ring	ND-6018	2
19-45x	SZ529874	Head Cover Prop	ND-6014	2
19-46	SP528748	Upper Plate	ND-6022	1
19-47	SP528750	Lower Plate	ND-6022	1
19-48x	SZ483737	Panel Washer B (Black)	KD-6029	4
19-49x	ZS482815	Screw, oval countersunk head 3x8 (Black)		4
19-50	SZ549516	ND Square Foot	ND-6041	2
19-51x	ZS413245	Screw, pan head 4x15		4
19-52	SP527692	Side Plate A (Right)	ND-6021	1
19-53	SP527703	Side Plate B (Left)	ND-6021	1
19-54	ZW548010	Spot Facing Washer	MU-6028	8
19-55	ZS561295	Screw, binding head 4x25		8
19-56x	SP581670	Rear Plate U	ND-6023	1
19-57x	SP581657	Rear Plate A (UL)	ND-6023	1
19-58x	SP581668	Rear Plate E (EC)	ND-6023	1
19-59x	SP581501	Rear Plate J (JPN)	ND-6023	1
19-60x	SA377190	Rubber Foot, LM	LM-404	4
19-61x	ZW419646	Washer (SPC) D4.5x9.8x0.5t		4
19-62x	ZS536444	Screw, binding head 4x18		4
19-63x	ZS498273	Tapping Screw #2 3x8, w/washer		2
19-64	SK549843	Double Knob A, w/rubber ring	TW-6304	3
19-65	SK549876	Double Knob B, w/rubber ring	TW-6307	3
19-66	SK581051	Pinch Roller Cap	TD-6013	1
19-67x	SK534374	Pinch Roller Cap (PRO)	TW-6019	1
19-68	MP582164	Pinch Roller D=42	TD-1034	1
19-69x	MP533744	Pinch Roller TW D=36 (PRO)	TW-1040	1
19-70	SK581837	Amp. Knob 1-B	CP-5018	3
19-71x	EF563681	Fuse 1A 250V	39-1-50	1
19-72x	SZ580735	Speed Change Plate	TD-2073	1
19-73	ZW535094	Decorative Washer	TW-2077	1
19-74x	ZW575785	Washer (Nylon) D6.5x10.3x0.5t		1
19-75x	ZW260010	Washer (PBP) D6.1x10x0.1t		2
19-76	ZS575796	Screw, oval countersunk head 3x5		1
19-77x	SZ581141	Protector Plate (JPN)	TD-1062	1
19-78x	ZS355511	Screw, binding head 3x6		2
19-79x	EF563703	Fuse 2A 250V	39-1-50	1

When ordering parts, please describe Parts Number, Serial Number, and Model Number in detail.

INDEX

Parts No.	Ref. No. & Symbol No.	Parts No.	Ref. No. & Symbol No.	Parts No.	Ref. No. & Symbol No.	Parts No.	Ref. No. & Symbol No.	Parts No.	Ref. No. & Symbol No.
BA587586	8-44x	EC320051	14-C4,5,6	EF563703	9-34x	ER336442	14-R32	ER537366	13-R13
BA587586	18-1x	EC320051	14-C11	EF563703	9-47x	ER336442	15-R9	ER537388	12-R27
BA587698	15-1x	EC320051	14-C15	EF563703	19-79x	ER337342	12-R16	ER552802	13-R39
BA587700	15-4x	EC320051	14-C17	EF575932	9-35x	ER337342	12-R24	ER558573	13-R22
BA587711	15-3x	EC329850	12-C14	EJ205975	9-61x	ER337342	13-R28	ER558573	13-R26
BA587722	15-6x	EC329861	14-C9	EJ205986	10-93x	ER337353	12-R14	ER558584	13-R15
BA587878	16-1x	EC329861	16-C1	EJ233370	9-27	ER337353	12-R28	ER558606	13-R4
BA587880	17-1x	EC329861	17-C3	EJ292961	11-90	ER337353	13-R12	ER559067	12-R1
BA587891	16-2x	EC329883	14-C8	EJ299823	9-59x	ER337353	13-R29	ER559067	12-R3
BA587902	17-13	EC331817	15-C3	EJ299823	11-88x	ER337397	13-R8	ER559067	13-R2
BA587902	17-13	EC333562	13-C18,19	EJ315101	1-32	ER343078	14-R10	ER565301	11-24x
BA587913	11-103	EC335373	12-C10,11	EJ328320	11-71x	ER343078	14-R18	ER573524	15-R1
BA587913	16-8	EC336104	12-C5	EJ363126	4-2	ER343078	14-R36	ER573715	15-R4
BA587913	16-8	EC336104	12-C8	EJ372892	11-19	ER345712	11-59x	ER575526	12-R22
BA587924	16-9x	EC336104	12-C15	EJ373623	9-60x	ER345756	11-25x	ER575537	12-R11
BA587924	16-9x	EC336104	12-C18	EJ373623	11-89x	ER346601	14-R4	ER575548	12-R9
BA587946	11-20x	EC336104	13-C5	EJ374016	11-16	ER346601	14-R35	ER575550	12-R29
BA587968	13-1x	EC336104	13-C9	EJ379844	9-18	ER349784	16-R1	ER575550	13-R19
BA587970	13-2x	EC336104	13-C13	EJ457637	11-55	ER349784	17-R2	ER575583	13-R32,33
BA587981	12-1x	EC336104	13-C16	EJ457661	11-54	ER349907	14-R11	ER575594	13-R21
BA588003	14-1x	EC336115	13-29	EJ558246	11-53x	ER349907	14-R20,21	ER575605	13-R14
BA589847	15-2x	EC336194	14-C3	EJ561227	9-22x	ER349907	14-R33	ER575616	13-R9
BA589858	15-5x	EC337500	14-C10	EJ580825	9-45x	ER349942	14-R17	ER575640	9-50
BC580792	5-6	EC350875	14-C2	EJ580825	15-13x	ER349942	14-R24	ES403727	10-51
BF587520	4-1x	EC350987	15-C6,7	EJ581646	11-52	ER349942	14-R29to31	ES479485	7-15
BF587531	4-2x	EC368335	16-C3	EJ589331	10-92x	ER350065	17-8	ES479485	9-39
BH587777	1-1x	EC368335	17-C5	EL565468	11-15	ER357456	14-R27	ES479485	9-56x
BH587788	1-2x	EC372148	15-C2	EL565468	11-49x	ER357535	14-R22	ES479496	7-16
BI587755	5-1x	EC377212	12-C19	EL569878	19-13	ER357570	14-R15	ES520672	17-3
BK587575	8-23x	EC377212	13-C11	EM561756	11-9	ER361642	14-R39	ES520784	13-SW1
BL587564	8-1x	EC379170	14-C12	EM573748	11-10x	ER362441	16-R3	ES562465	6-35
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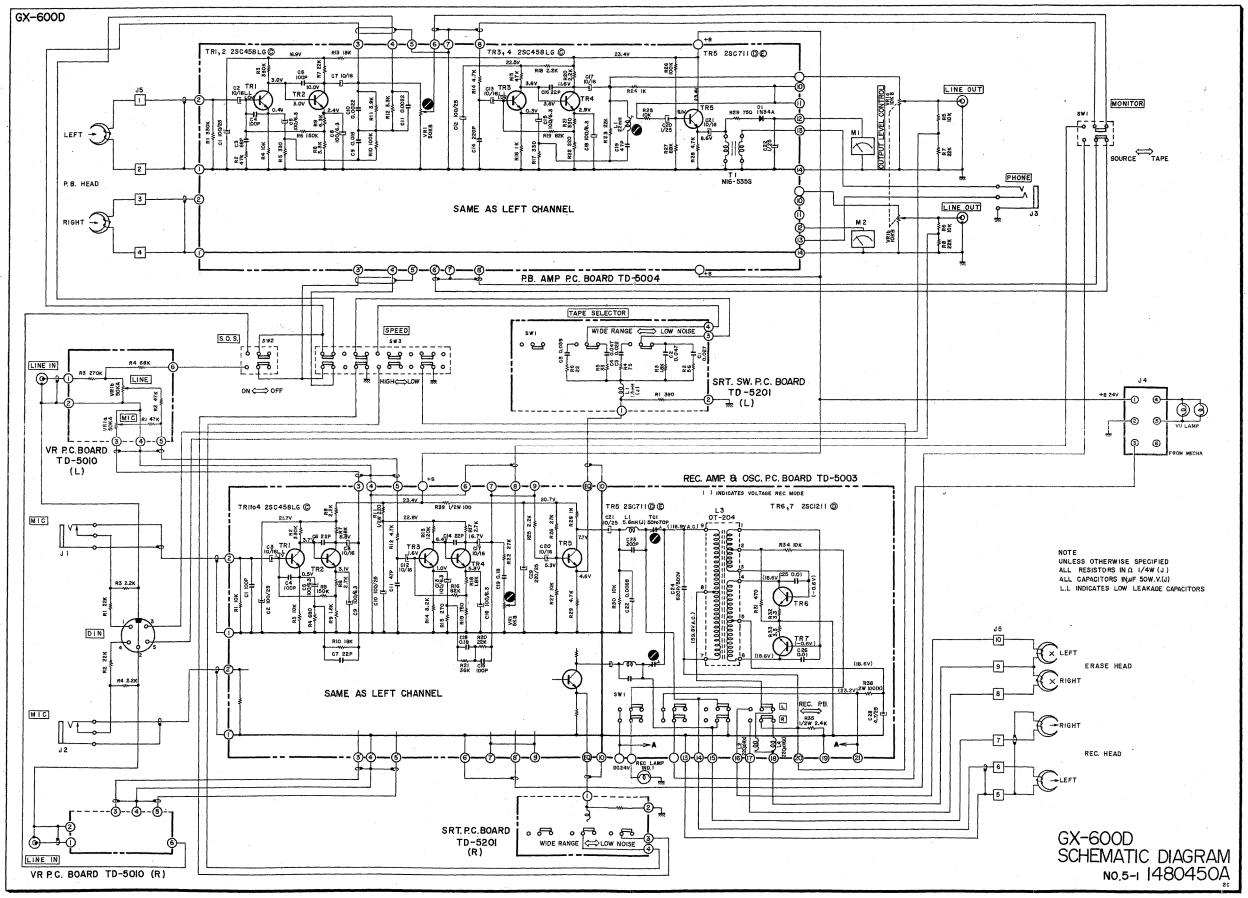
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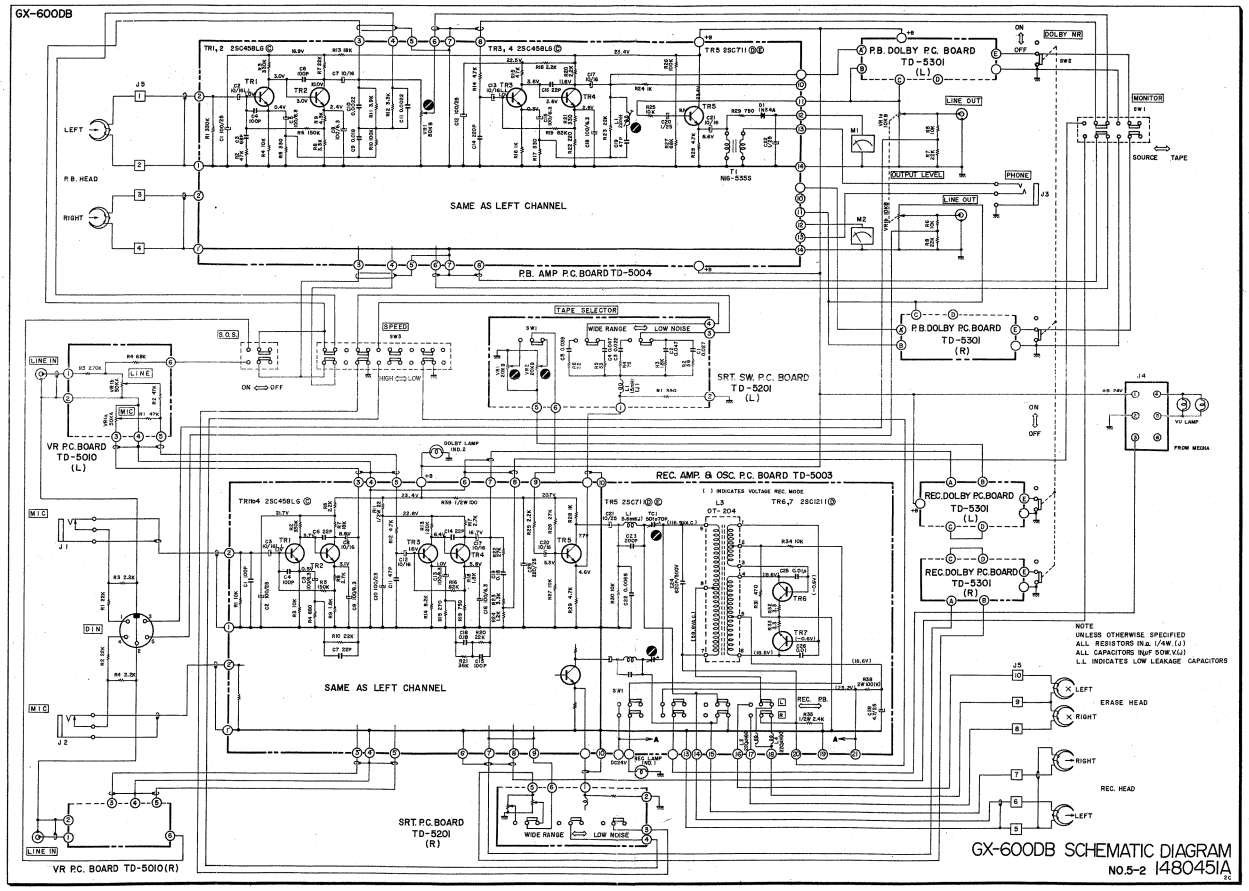
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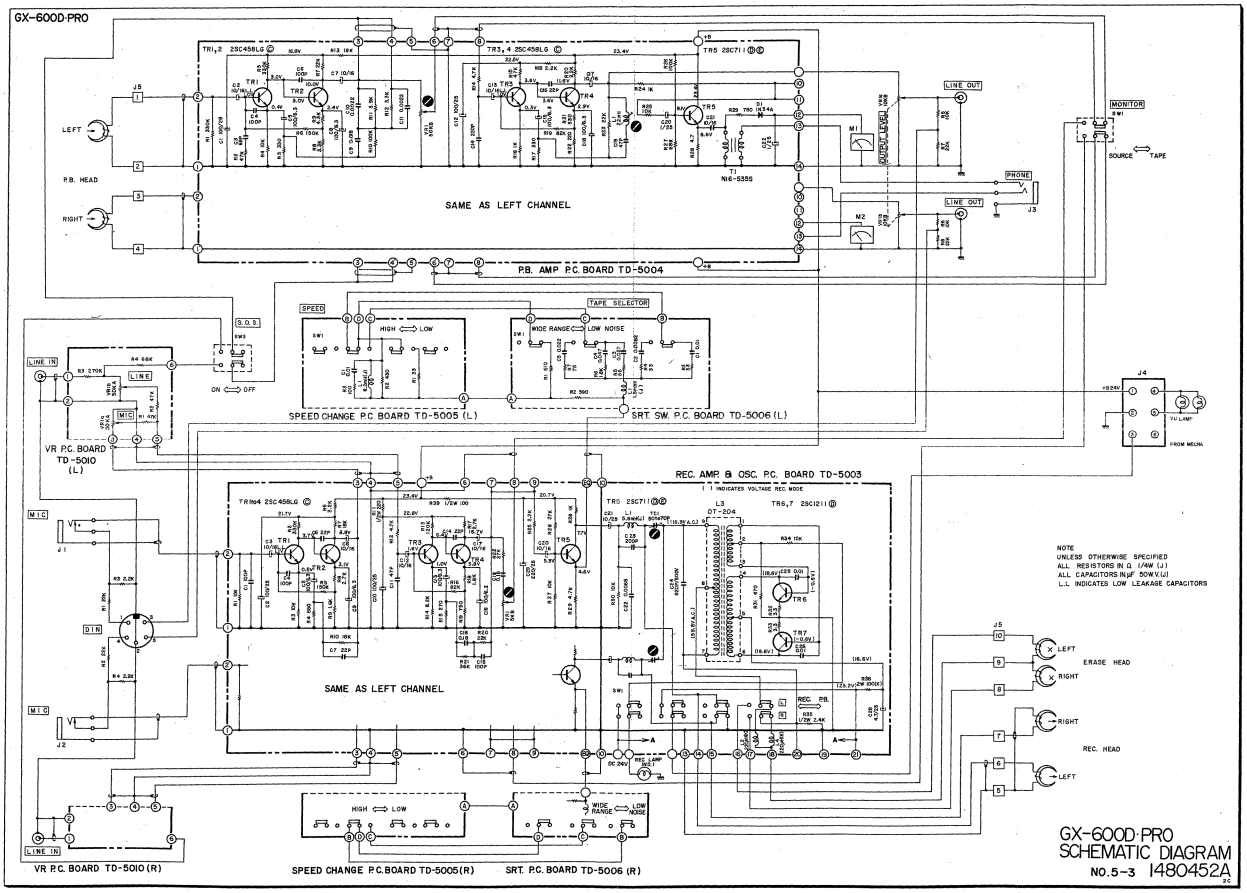
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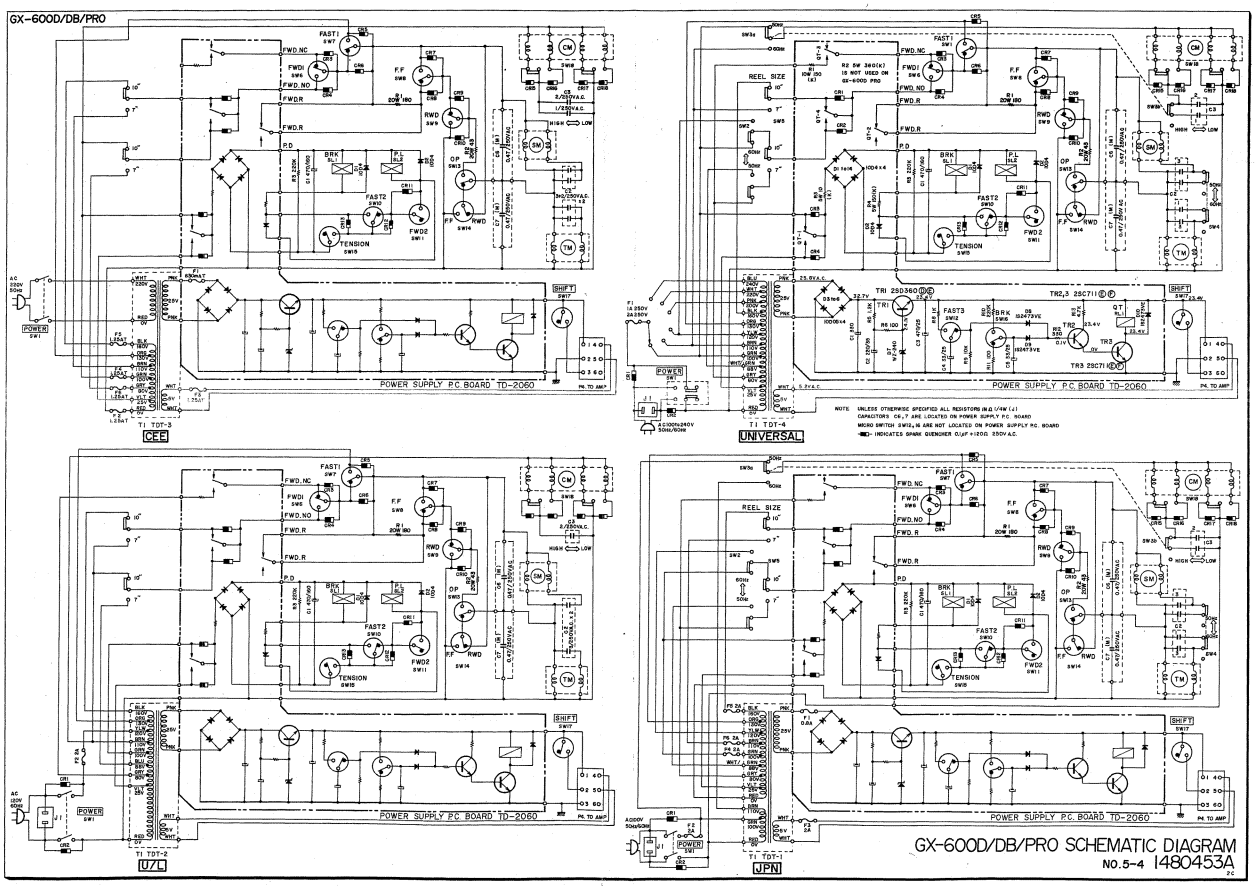
AKAI-00181/DRUCK3



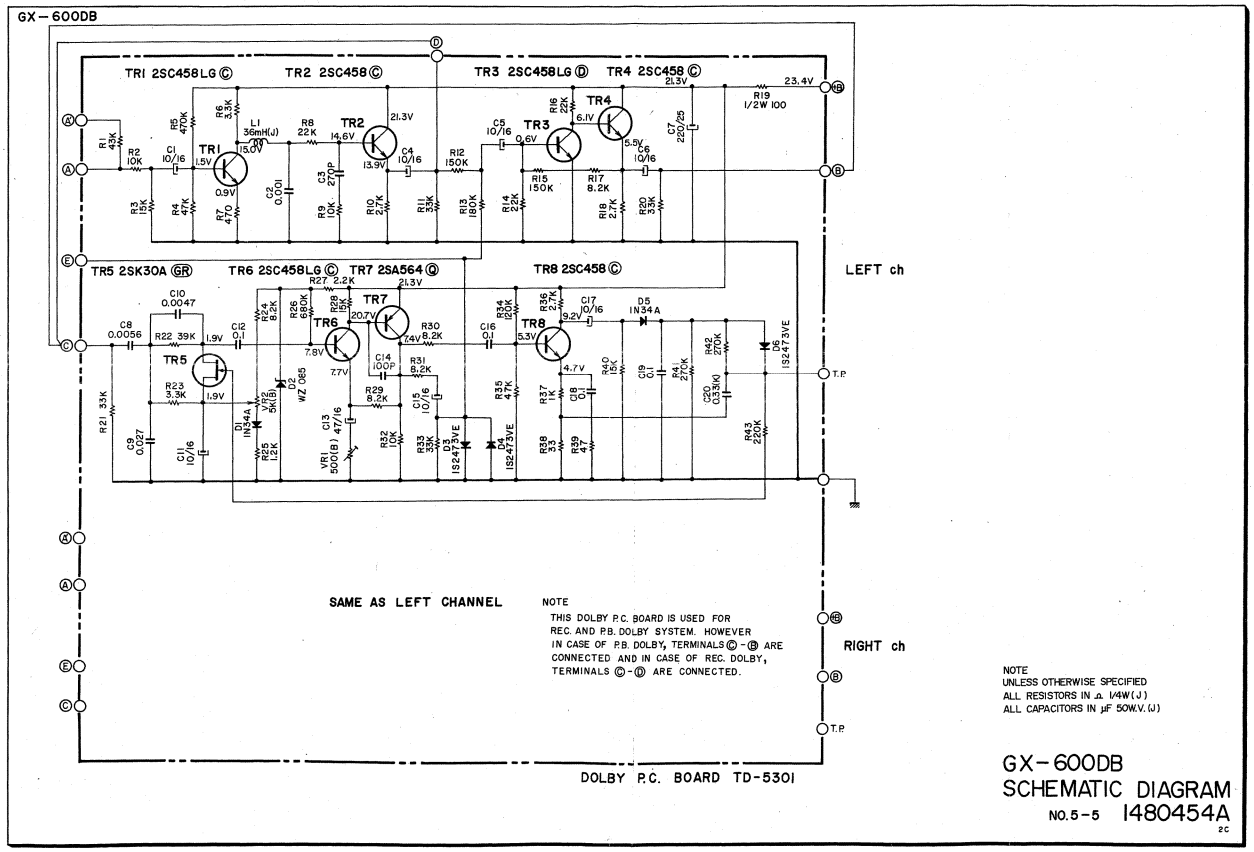
AKAI-00181/DRUCK4



AKAI-00181/DRUCK5



AKAI-00181/DRUCK6



AKAI-00181/DRUCK7