



STEREO TAPE DECK

MODEL **GX-370D**

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SECTION 1

SERVICE MANUAL

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I. SPECIFICATIONS

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

TRACK SYSTEM	4 track 2-channel stereo/monaural system	
REEL CAPACITY	Up to 7" reel	
TAPE SPEED	7-1/2 and 3-3/4 ips $\pm 0.5\%$	
WOW AND FLUTTER	Less than 0.07% (*0.1%) RMS at 7-1/2 ips Less than 0.1% (*0.15%) RMS at 3-3/4 ips	
FREQUENCY RESPONSE	30 to 26,000 Hz (*30 to 24,000 Hz) ± 3 dB at 7-1/2 ips (AKAI S.R.T. Tape) 30 to 24,000 Hz (*30 to 22,000 Hz) ± 3 dB at 7-1/2 ips (Regular Tape) 30 to 22,000 Hz (*30 to 19,000 Hz) ± 3 dB at 3-3/4 ips (AKAI S.R.T. Tape) 30 to 19,000 Hz (*30 to 18,000 Hz) ± 3 dB at 3-3/4 ips (Regular Tape)	
SIGNAL TO NOISE RATIO	Better than 50 dB (*48 dB)	
DISTORTION	Less than 1.5% (*2%) at 7-1/2 ips 1,000 Hz "0" VU recording Less than 3% at 3-3/4 ips 1,000 Hz "0" VU recording	
CROSS TALK	Better than 70 dB (Monaural) Better than 45 dB (Stereo)	
ERASE RATIO	Better than 70 dB	
BIAS FREQUENCY	103 kHz ± 5 kHz	
BIAS LEAK	Less than -20 VU	
HIGH FREQUENCY DEVIATION (between left and right channel)	Within 3 dB, using a 8,000 Hz 3-3/4 ips recorded tape at 7-1/2 ips	
INPUTS	Mic input Line input Din input	0.7 mV Impedance: 10 k Ω 70 mV Impedance: 150 k Ω 7 mV (low) and 70 mV (high)
OUTPUTS	Line output Din output	1.228V (4 ± 1.5 dB) Impedance: 100 Ω , using a 250 Hz "0" VU recorded tape 0.4V
RECORDING CAPACITY	60 min. stereo recording, using a 1,200 ft. tape at 7-1/2 ips	
FAST FORWARD & REWIND TIME	68/83 sec., using a 1,200 ft. tape at 60/50 Hz	
MOTORS	Capstan Motor Reel Motor	2-speed servo control outer rotor motor Type: SCM2-24 Revolutions: 520 r.p.m. at 7-1/2 ips 260 r.p.m. at 3-3/4 ips Two 6-pole eddy current outer rotor motors Type: 24X0-II Revolutions: 930 r.p.m. at 50 Hz 1120 r.p.m. at 60 Hz
HEADS		
Combination Recording & Erase Head	Type: RE4-1 Gap: 4 μ $\pm 15\%$, 0.2x2 mm Impedance: 1,800 Ω at 100 kHz 210 Ω $\pm 15\%$ at 100 kHz	
Playback Head	Type: P4-200 Gap: 1.75 μ $\pm 15\%$ Impedance: 3 ± 1 k Ω at 1 kHz	
TRANSISTORS	2... 2SA564(R) 8... 2SC458LG(B)(C) 4... 2SC871(F) 6... 2SC968(3) 1... 2SC1013 3... TSC9000-1(B)(C)	4... 2SC454(C) 16... 2SC711(D)(E) 17... 2SC945(Q)(R)(S) 2... 2SC971(2)(3)(red) 2... 2SD234(Y)
DIODES	27... 1N34A 3... 10D4 1... 10DC-1(red)	17... 10D1 2... 10DC-1(black)
IC	2... LD-3141	
THERMISTORS	1... 1N359A	
VARISTOR	1... TH201	
POWER SUPPLY	100 to 240V AC, 50/60 Hz	
POWER CONSUMPTION	130 W	
INSULATION RESISTANCE	More than 50 M Ω	
INSULATION DURABILITY	1,000V AC for more than 1 min. duration	
DIMENSIONS	445 (W) \times 503 (H) \times 252 (D) mm (18.2 \times 20.5 \times 10.3")	
WEIGHT	25.5 kg (56 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-370D. 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

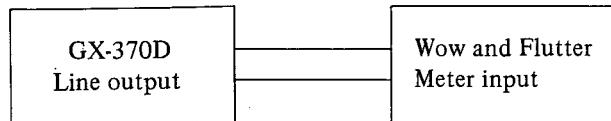


Fig. 2

Method A

As shown in Fig. 2, connect the Line Output of Model GX-370D 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 twice that of Method A.)

3. FREQUENCY RESPONSE

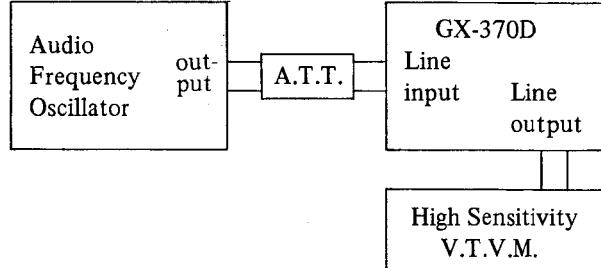


Fig. 3

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-370D from an Audio Frequency Oscillator through an Attenuator.
- 2) Set recorder to recording mode and turn recording level control volume and line output level control volume to maximum. Adjust attenuator to obtain a +4 dB V.T.V.M. reading.
- 3) Under conditions described in 2) above, readjust attenuator so that the Line Output is -16 dB, and record 30 to 24,000 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

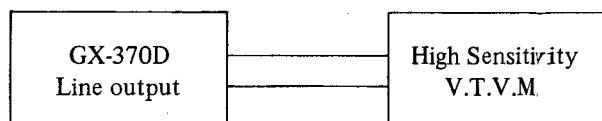


Fig. 4

As shown in Fig. 4, connect a High Sensitivity V.T.V.M. to the Line output of Model GX-370D. Playback a 250 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

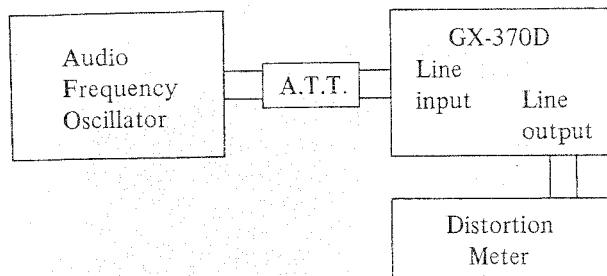


Fig. 5

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. Measure the noise level of the tape recorder without the tape. Connect the Audio Frequency Oscillator directly to the distortion meter for measurement of the distortion factor of the oscillator. The required distortion factor can be obtained from the results of the above measurement by the following formula:

$$d_0 = d - d_1 - d_2$$

where, d_0 — Required distortion factor
 d — Overall distortion factor
 d_1 — Noise level
 d_2 — Distortion factor of the oscillator

NOTE: 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 Tracks No. 3 and 1 (reversed condition of tape) through the B.P.F. (band pass filter sensitivity... 1:1) and obtain a ratio between the two from the following formula:

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

where, C — Desired cross talk ratio (dB)

E_0 — 1,000 Hz signal output level

E_2 — 1,000 Hz cross talk level

E_1 — Non-input signal recorded level



Fig. 7

7. ERASE RATIO

As shown in Fig. 4, connect a High Sensitivity V.T.V.M. to the Line Output of Model GX-370D. Playback a virgin tape and take a V.T.V.M. reading of the output level. Next, record a 1,000 Hz sine wave signal at +3 dB, then playback this recorded signal and take a V.T.V.M. reading of the output level. Next, using this pre-recorded tape, record under a non-input condition and take a reading of the noise output level of the erased signal and obtain a ratio between the two from the following formula:

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

where, Er — Desired erase ratio (dB)

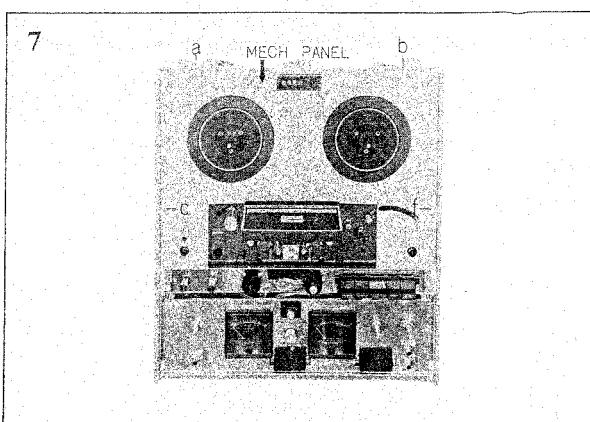
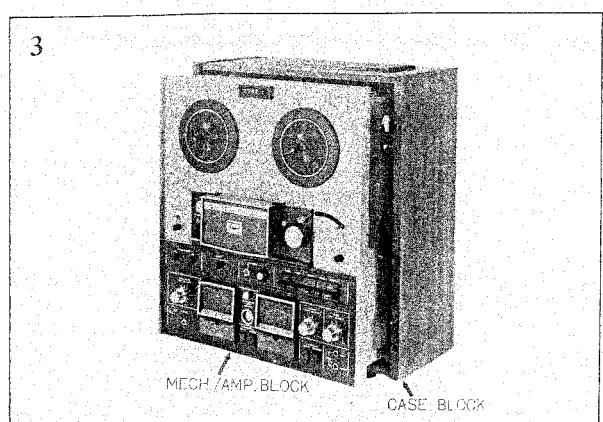
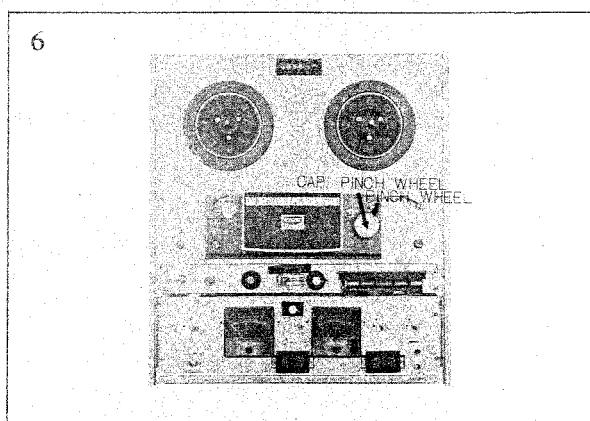
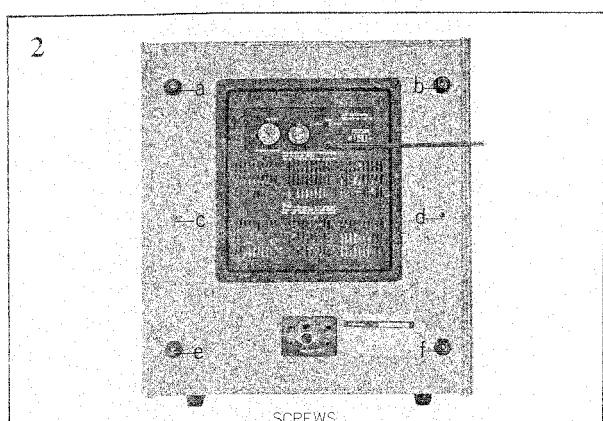
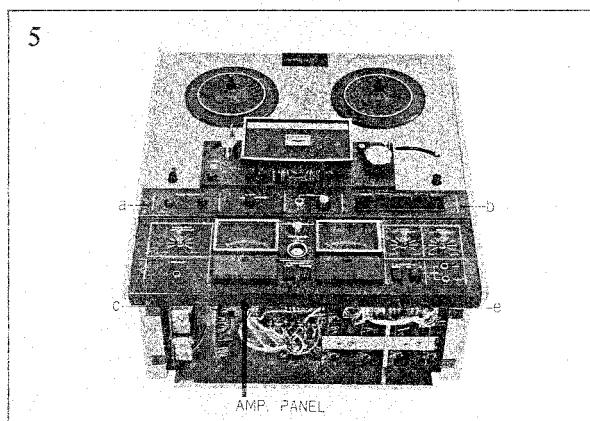
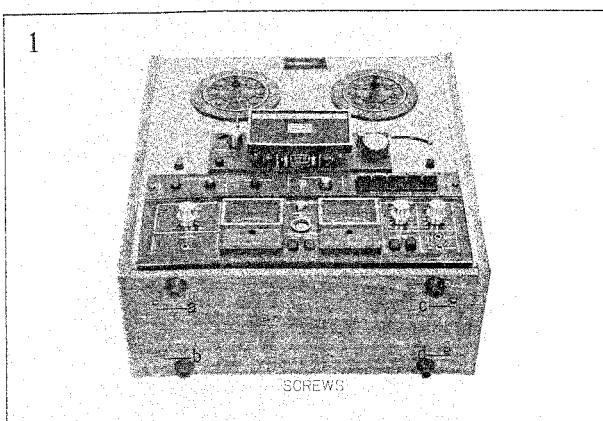
E_0 — 1,000 Hz signal output level

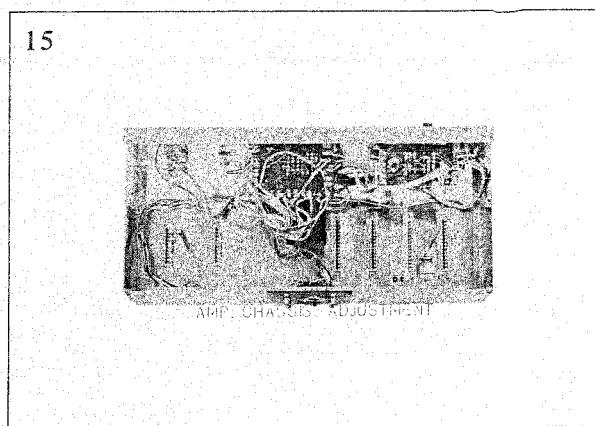
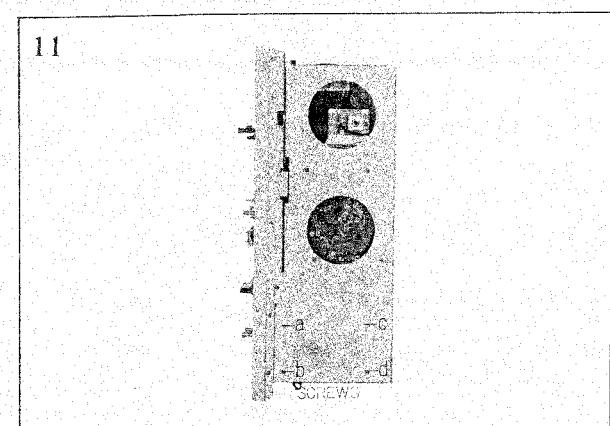
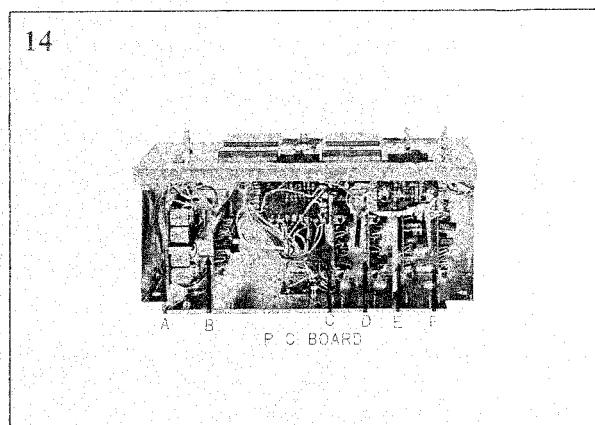
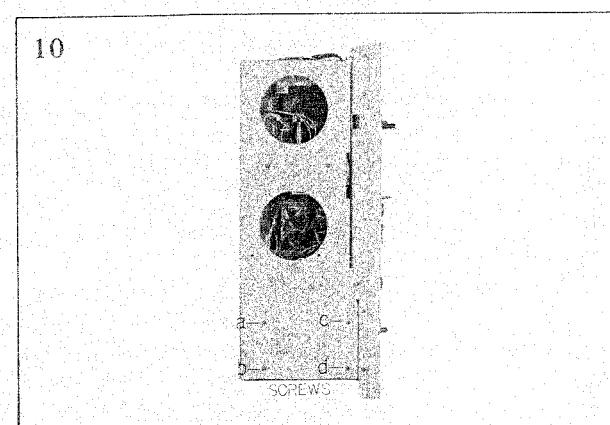
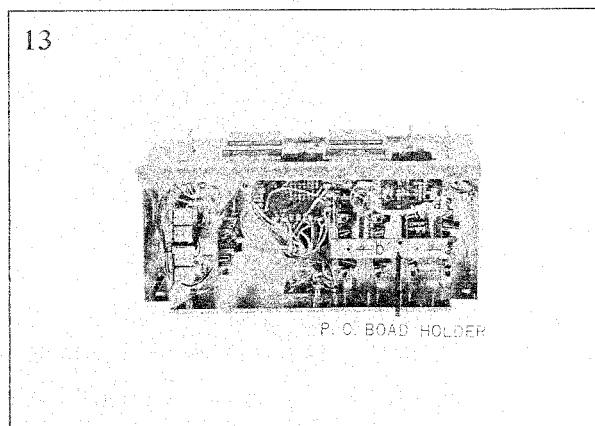
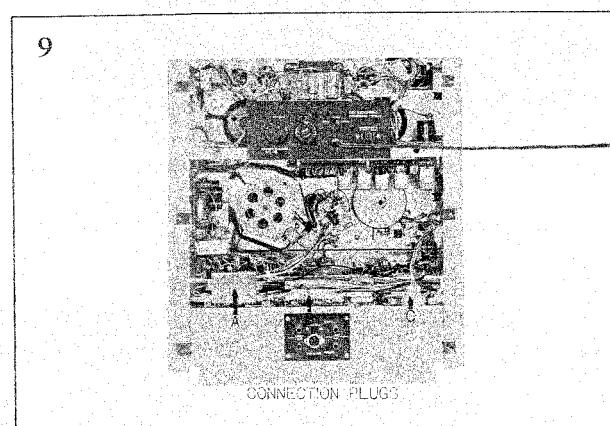
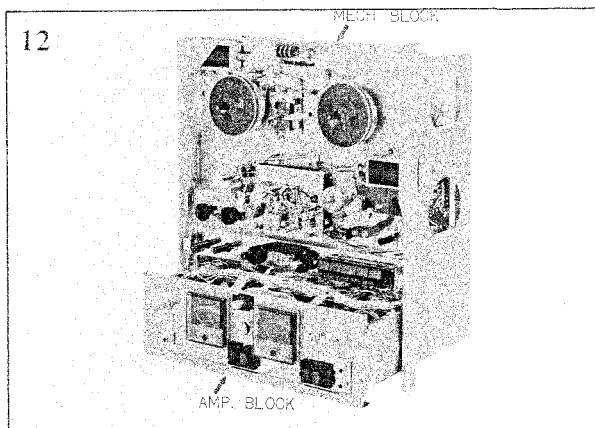
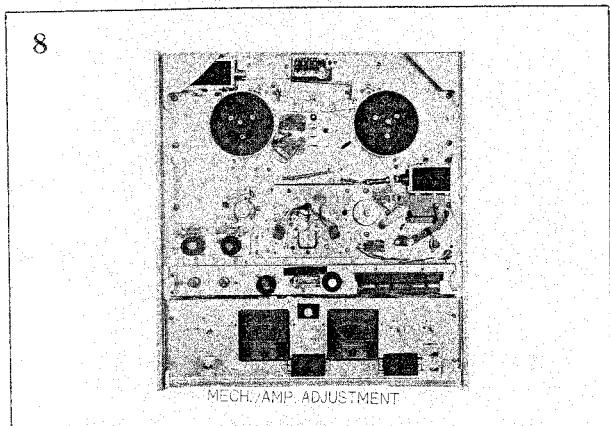
E_2 — Non-input signal recorded level

E_1 — Virgin tape noise output level

III. DISMANTLING OF UNIT

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





IV. MECHANISM ADJUSTMENTS

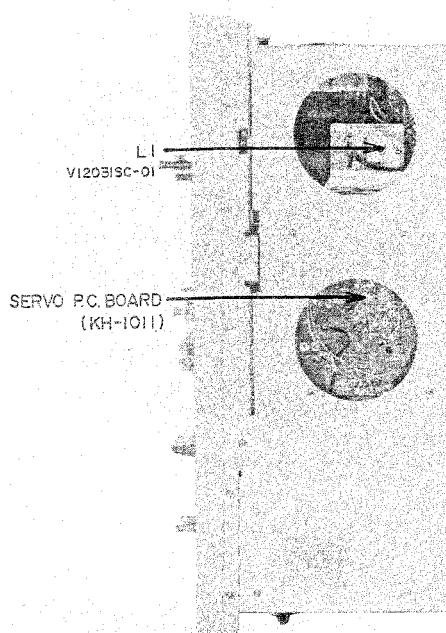


Fig. 8

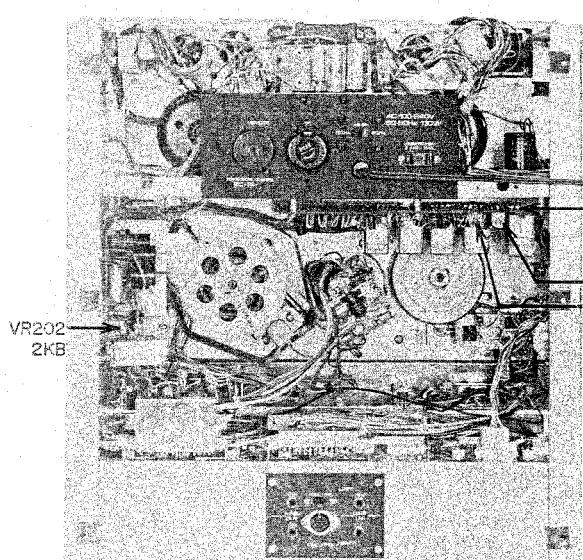


Fig. 9

1. TAPE SPEED ADJUSTMENT (SERVO MOTOR CIRCUIT ADJUSTMENT)

- 1) Connect a Frequency Counter to the Line Output.
- 2) Set the Tape Speed Selector to 3-3/4 ips and playback a 1,000 Hz pre-recorded tape.
- 3) Adjust the core of Coil L1 (V12031SC-01) shown in Fig. 8 to obtain a Frequency Counter indication of 500 Hz $\pm 1\%$.
- 4) When the 3-3/4 ips tape speed adjustment is completed, set the Tape Speed Selector to 7-1/2 ips and adjust Servo P.C. Board (KH-1011) semi-fixed resistor VR-202 (2k B) shown in Fig. 9 to obtain a Frequency Counter indication of 1,000 Hz $+1/-0.5\%$.

NOTE: When making tape speed adjustment, it is necessary to make the low speed (3-3/4 ips) adjustment first.

2. DIRECT FUNCTION TIME CONSTANT ADJUSTMENT (See Fig. 9)

- 1) FWD \leftrightarrow REV Time Constant
Adjust System Control P.C. Board (KH-1009) semi-fixed resistor VR-1 (30k B) so that the time constant to and from FWD and REV mode is about 3 seconds.
- 2) F-FWD or RWD to FWD or REV Time Constant
Adjust System Control P.C. Board (KH-1009) semi-fixed resistor VR-2 (10k B) so that the time constant from F-FWD or RWD to FWD or REV mode is about 1.5 seconds.

NOTE: In making the adjustments outlined in Items (1) and (2) above, when the machine is switched from the various modes to FWD or REV, it is important that proper capstan motor revolutions be attained by the time the pinch wheel contacts the capstan.

3. BRAKE TENSION ADJUSTMENT

Use a 60 mm diameter tape wound on a 5" reel and measure the brake tension with a tension gauge. (See Fig. 10) Ideal tape tension is 350 grams.

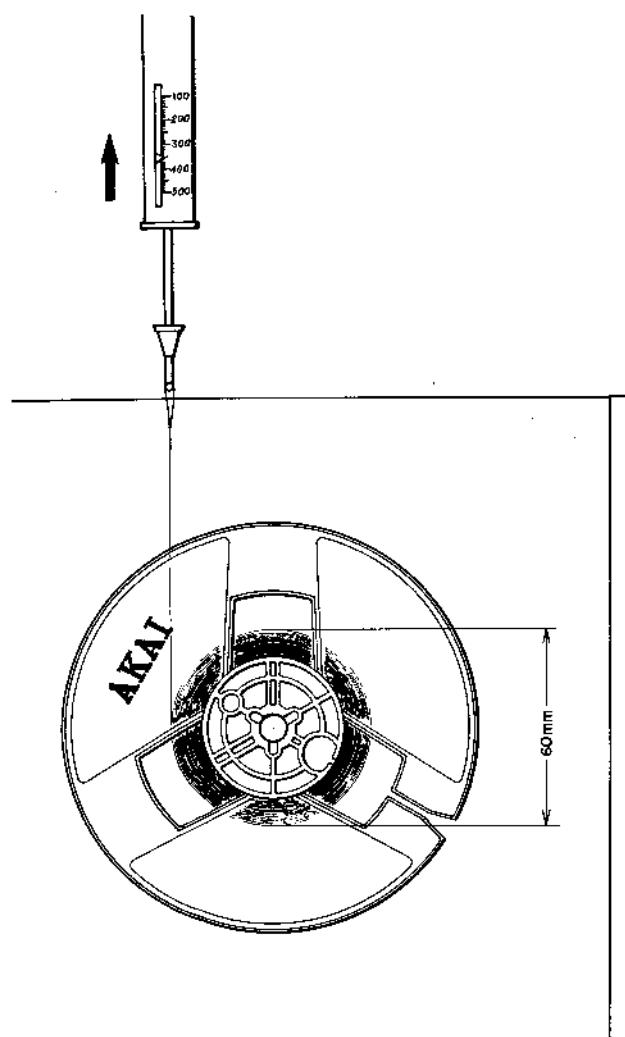


Fig. 10

Brake tension adjustment can be made as follows:

- 1) Adjust position of suspended springs (d) (d').
- 2) Loosen screws (a) (b) as well as (a') (b') and adjust the vertical (upper/lower) position of spring suspension metal (c) (c').
- 3) Loosen screws (e) (f) as well as (e') (f') and adjust the horizontal (left/right) position of brake band suspension metal (g) (g').

Adjust as described above until proper brake tension is attained. (Refer to Fig. 11)

NOTE: In making brake tension adjustment, when the machine is set to other than stop mode, confirm that the brake band definitely does not touch the cloth tape on the brake drum.

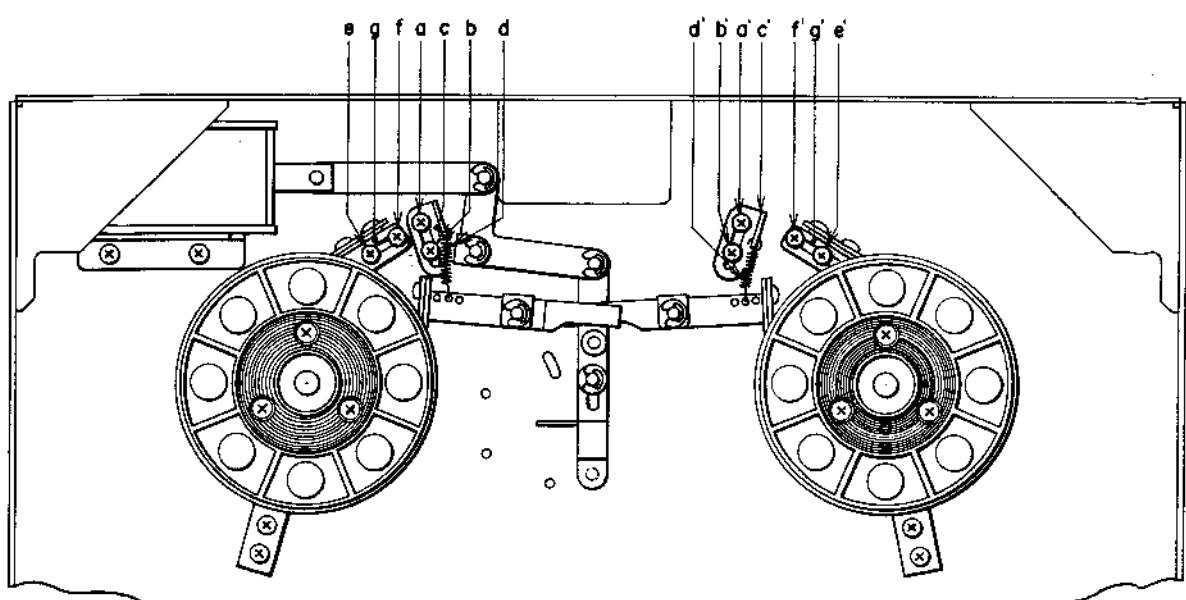
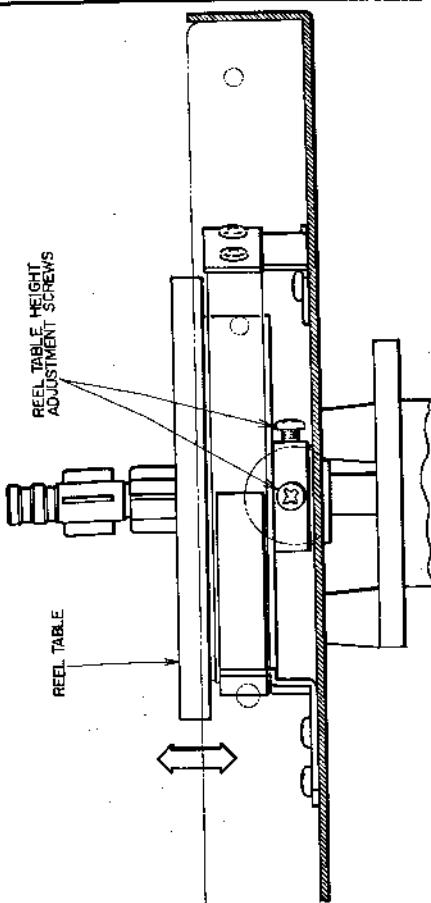


Fig. 11



4. REEL HEIGHT ADJUSTMENT

Loosen the reel table height adjustment screws shown in Fig. 12 and adjust by moving the reel table in the direction of arrow and positioning so that the tape winds in the center of the reel.

5. PINCH WHEEL PRESSURE MEASUREMENT AND ADJUSTMENT

Use a tension gauge and measure the pinch wheel pressure as shown in Fig. 13. Read the value on the tension gauge as soon as the pinch wheel separates from the tape and tape travel stops. Ideal pinch wheel pressure is 1.5 kg. Pinch wheel pressure can be increased or decreased by adjusting screws (a) (b) shown in Fig. 13.

Fig. 12

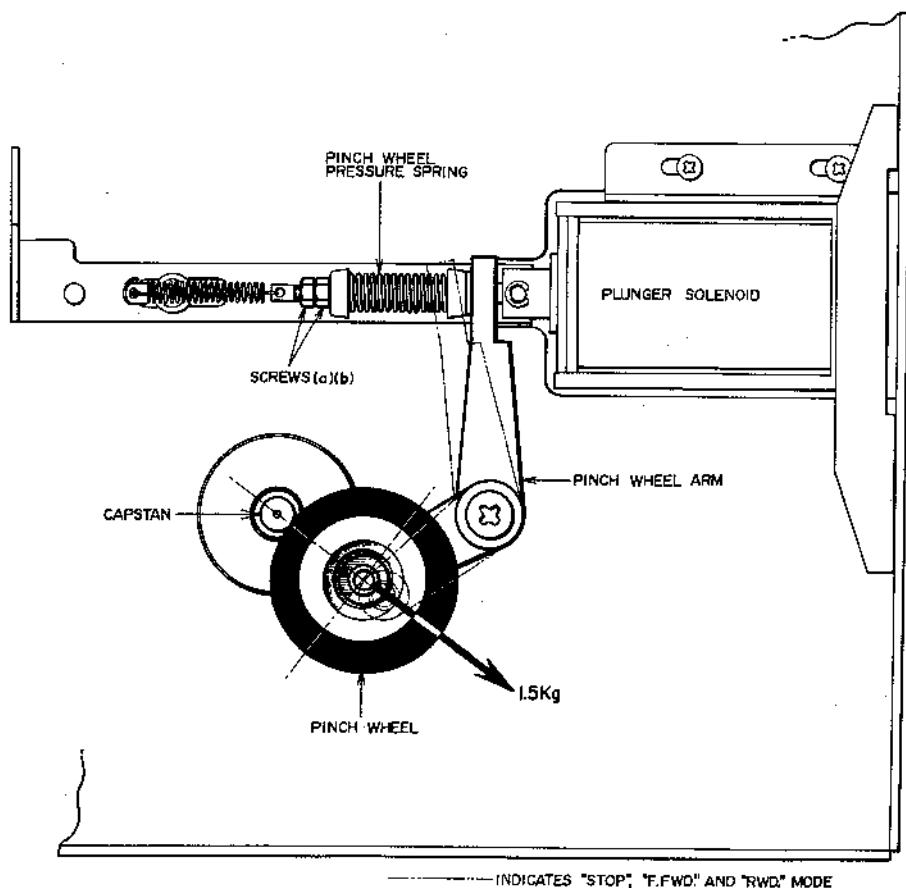


Fig. 13

V. HEAD ADJUSTMENTS

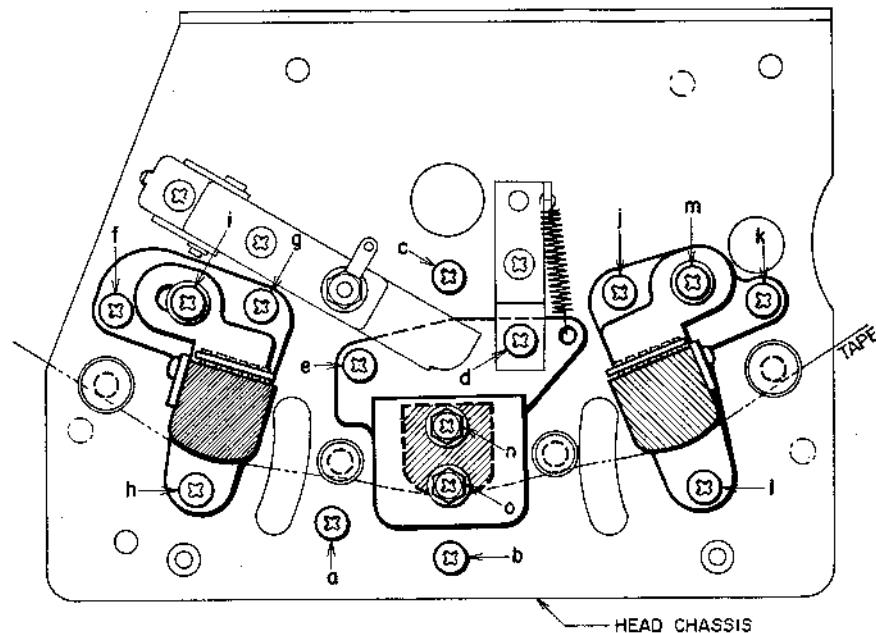


Fig. 14

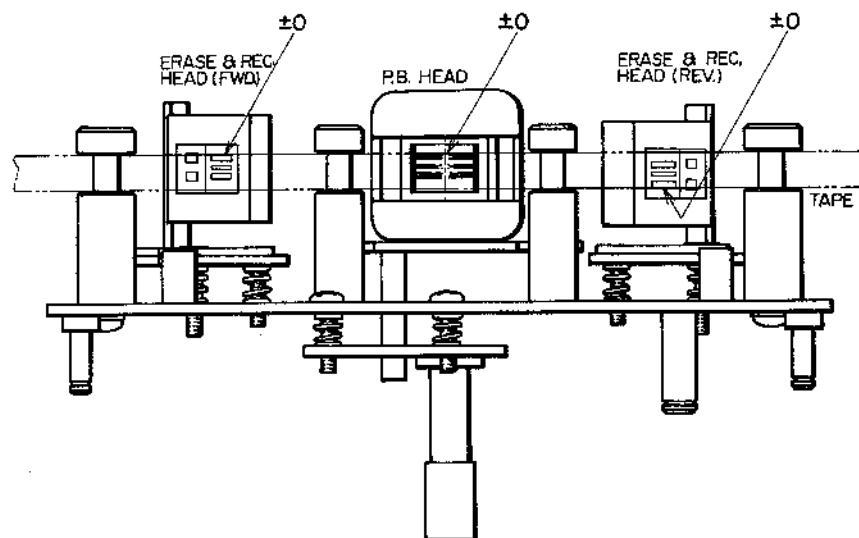


Fig. 15

1. HEAD HEIGHT ADJUSTMENT

(See Figs. 14 & 15)

1) Playback Head

- a) For FWD playback mode head height adjustment, during FWD playback, turn head height control screw (d) to left and right until the upper edge of the tape as it passes the head is aligned with the upper edge of channel 1 head core.
- b) For REV playback mode head height adjustment, during REV playback, turn head height control screw (e) to left and right until the lower edge of the tape as it passes the head is aligned with the lower edge of channel 1 head core.

2) Recording and Erase Heads

- a) For FWD recording and erase head height adjustment, at FWD playback mode, adjust head height control screws (f) (g) and (h) by turning to left and right until the upper edge of the tape as it passes the head is aligned with the upper edge of channel 1 recording head core.
- b) For REV recording and erase head height adjustment, at REV playback mode, adjust head height control screws (j) (k) and (l) by turning to left and right until the lower edge of the tape is aligned with the lower edge of channel 1 recording head core.
- 3) When making the various head height adjustments, confirm that the tape and head core surface is at a right angle with the head chassis during tape travel.

2. HEAD AZIMUTH ALIGNMENT ADJUSTMENT (See Figs. 14 & 15)

1) Playback Head

- a) Connect a High Sensitivity V.T.V.M. to the line output and playback a test tape (Ampex Alignment Tape, 8,000 Hz at 3-3/4 ips) at 7-1/2 ips.
- b) At FWD playback mode, turn adjustment screws (a) and (b) to left and right until the line output level of both channels is maximum.
- c) When Item (b) adjustment is completed, loosen screws (n) and (o) and move the head gap side of the playback head to the left and right. When the tension increases on the supply reel side and the line output level of both channels do not fluctuate, fix screws (n) and (o) to maintain this condition.
- d) At REV playback mode, make the same adjustment as outlined above to attain maximum line output of both channels.

2) Recording and Erase Heads

- a) Connect an Audio Frequency Oscillator to the line input and connect a High Sensitivity V.T.V.M. to the line output and load a blank tape.
- b) Set the Monitor Switch to TAPE position and record a 16,000 Hz signal at -10 dB recording level.
- c) At FWD recording mode, adjust Azimuth Alignment screw (f) so that the line output level of both channels is maximum and does not fluctuate.
- d) After completing Item (c) adjustment, loosen screw (i) and move the head gap side of the recording head to left and right. When the tension increases on the supply reel side and the line output level of both channels do not fluctuate, fix screw (i) to maintain this condition.
- e) At REV recording mode, make the same adjustment as outlined above by adjusting screws (k) and (m) to attain maximum line output of both channels without fluctuation.

3. To obtain the best results make adjustments outlined in Paragraphs 1 and 2 above two or three times. Also new blank tape should be used.

VI. AMPLIFIER ADJUSTMENTS

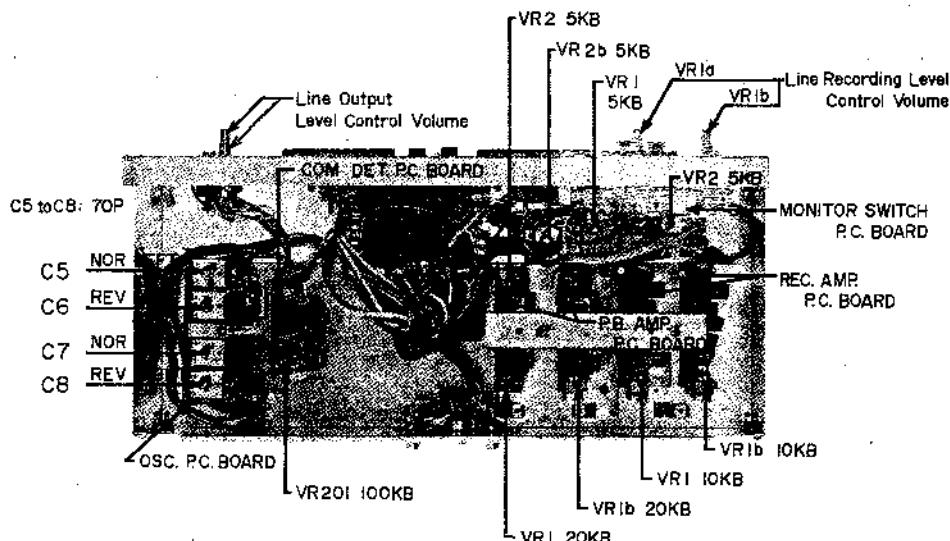


Fig. 16

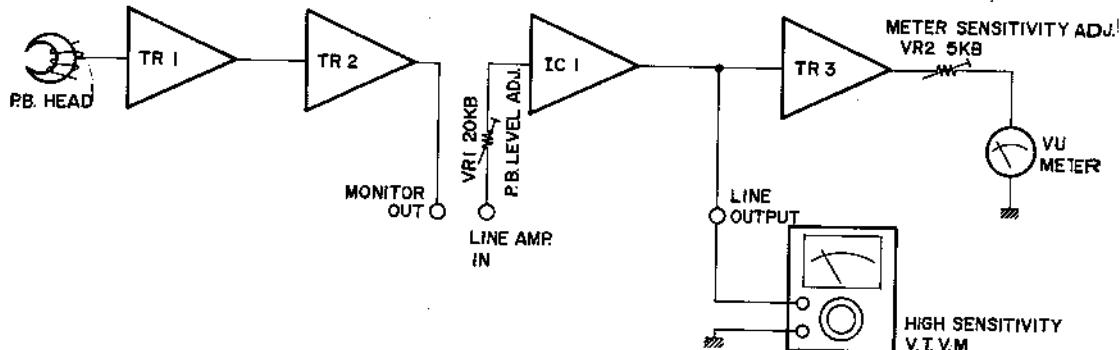


Fig. 17 P.B. AMP. BLOCK DIAGRAM

1. PLAYBACK LEVEL ADJUSTMENT

(See Fig. 16)

- 1) Connect a High Sensitivity V.T.V.M. to the line output.
- 2) Set Tape Speed Selector to 7-1/2 ips.
- 3) Depress both LEFT and RIGHT Track Selector Switches.
- 4) Set Monitor Switch to TAPE position and Line Output Level Controls to maximum.
- 5) Playback a 250 Hz, 7-1/2 ips pre-recorded tape.
- 6) With P.B. Amp. P.C. Board (KH-5014) semi-fixed resistors VR-1 and VR-1b (20k B), set the line output level of both channels to 4 ± 1.5 dB.

2. VU METER SENSITIVITY ADJUSTMENT

(See Fig. 16)

Adjust P.B. Amp. P.C. Board (KH-5014) semi-fixed resistors VR-2 and VR-2b (5k B) to obtain a VU meter indication of "0" VU on both channels.

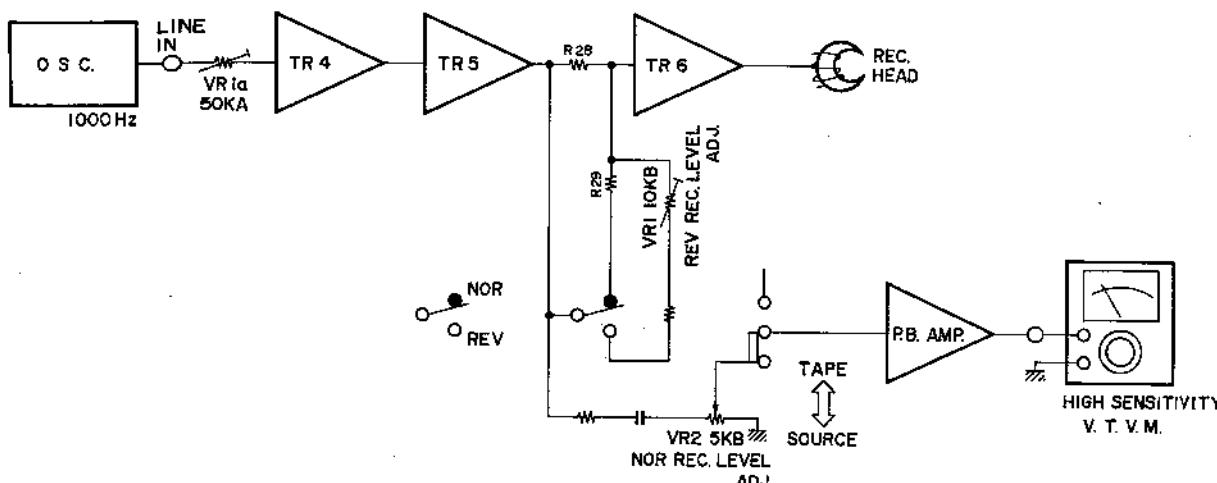


Fig. 18 REC. AMP. BLOCK DIAGRAM

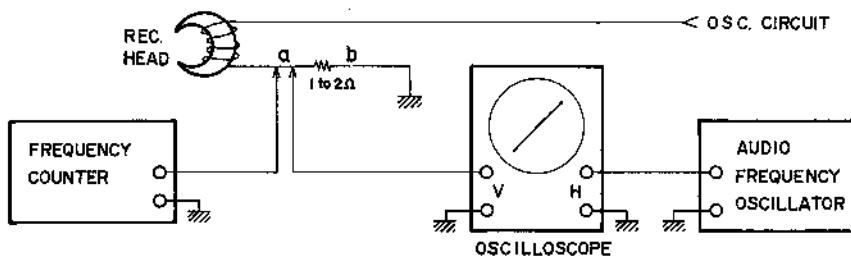


Fig. 19

3. RECORDING LEVEL ADJUSTMENT

(See Fig. 16)

- 1) Connect an Audio Frequency Oscillator to the line input and connect a High Sensitivity V.T.V.M. to the line output.
- 2) Set Tape Speed Selector to 7-1/2 ips.
- 3) Depress both LEFT and RIGHT Track Selector Switches.
- 4) Load an AKAI 100L (Fuji S-100) blank tape. Set the Monitor Switch to TAPE position and the Line Output Level Controls to maximum.
- 5) Set recorder to FWD recording mode and supply a 1,000 Hz sine wave signal to the line input from the Audio Frequency Oscillator. Adjust line recording level volume controls VR-1a and VR-1b (20k B) to obtain a line output level of 4 dB (0 VU) on both channels.
- 6) Set Monitor Switch to SOURCE position and adjust Monitor Switch P.C. Board (KH-5012) semi-fixed resistors VR-1 and VR-2 (5k B) to obtain a 4 dB line output level on both channels.
- 7) When the FWD recording level adjustment is completed, set the recorder to REV recording mode and set the Monitor Switch to TAPE position.
- 8) Adjust Rec. Amp P.C. Board (KH-5013) semi-fixed resistors VR-1 and VR-1b (10k B) to obtain a line output level of 4 dB on both channels.

4. RECORDING BIAS FREQUENCY MEASURING METHOD AND ADJUSTMENT

Method I

- 1) Install a 1 to 2Ω resistor in series with the recording head and connect these terminals (a)(b) to the vertical input of an oscilloscope. (See Fig. 19)
- 2) Supply a sine wave signal to the horizontal input of the Oscilloscope from an Audio Frequency Oscillator. Set recorder to the REC mode.
- 3) Vary the frequency of the Audio Frequency Oscillator until the oscilloscope waveform displays a circular or linear pattern.
- 4) If the audio frequency oscillator indication is 103 ± 5 kHz, the recording bias frequency is correct.

Method II

- 1) Connect a Frequency Counter to points (a) and (b) as shown in Fig. 19. Set recorder to the REC mode, and take a frequency counter reading at this time.
- 2) If the Frequency Counter indication is 103 ± 5 kHz, the recording bias frequency is correct.

Adjustment

The recording bias frequency can be adjusted by changing the value of OSC. circuit condenser C-4 (4500P/500).

TAPE SPEED 3-3/4 ips

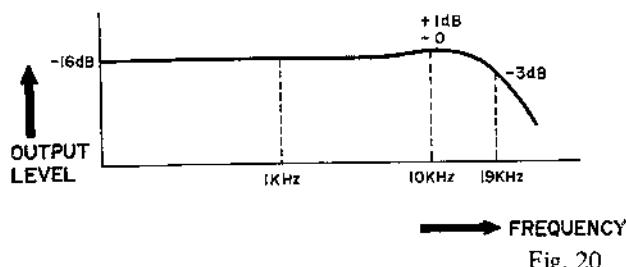


Fig. 20

5. RECORDING BIAS VOLTAGE ADJUSTMENT (Frequency Response Adjustment)

- 1) Refer to section regarding Frequency Response Measuring Method (Fig. 3 of this manual)
- 2) Adjust OSC. P.C. Board semi-fixed capacitors C-5 to C-8 (7OP) so that a 10 kHz signal output level is within +1/-0 dB in relation to 1,000 Hz. (See Figs. 16 & 17)
- 3) The bias voltage after the frequency response adjustment has been made is about 5V AC.

NOTE: The frequency response will vary depending upon the tape being used.

6. ERASE VOLTAGE

There is no way to adjust the erase voltage, but correct value is about 23V AC.

7. COMPUTE-O-MATIC RECORDING LEVEL SENSITIVITY ADJUSTMENT

- 1) Connect an Audio Frequency Oscillator to the left microphone input and connect a High Sensitivity V.T.V.M. to the left line output.
- 2) Supply a 1,000 Hz sine wave from the audio frequency oscillator.
- 3) Set the Monitor Switch to SOURCE position and depress both the LEFT and RIGHT Track Selector Switches.
- 4) Adjust COM-DET (Compute-O-Matic Detector) P.C. Board (RD-A514) semi-fixed resistor VR-201 (100k B) to obtain a 4 dB V.T.V.M. indication when the Compute-O-Matic Button is depressed.

VII. TRANSPORT MECHANISM

1. TRANSISTOR, RELAY, AND PLUNGER SOLENOID OPERATION CHART

(Refer to Schematic Diagram 1 through 6)

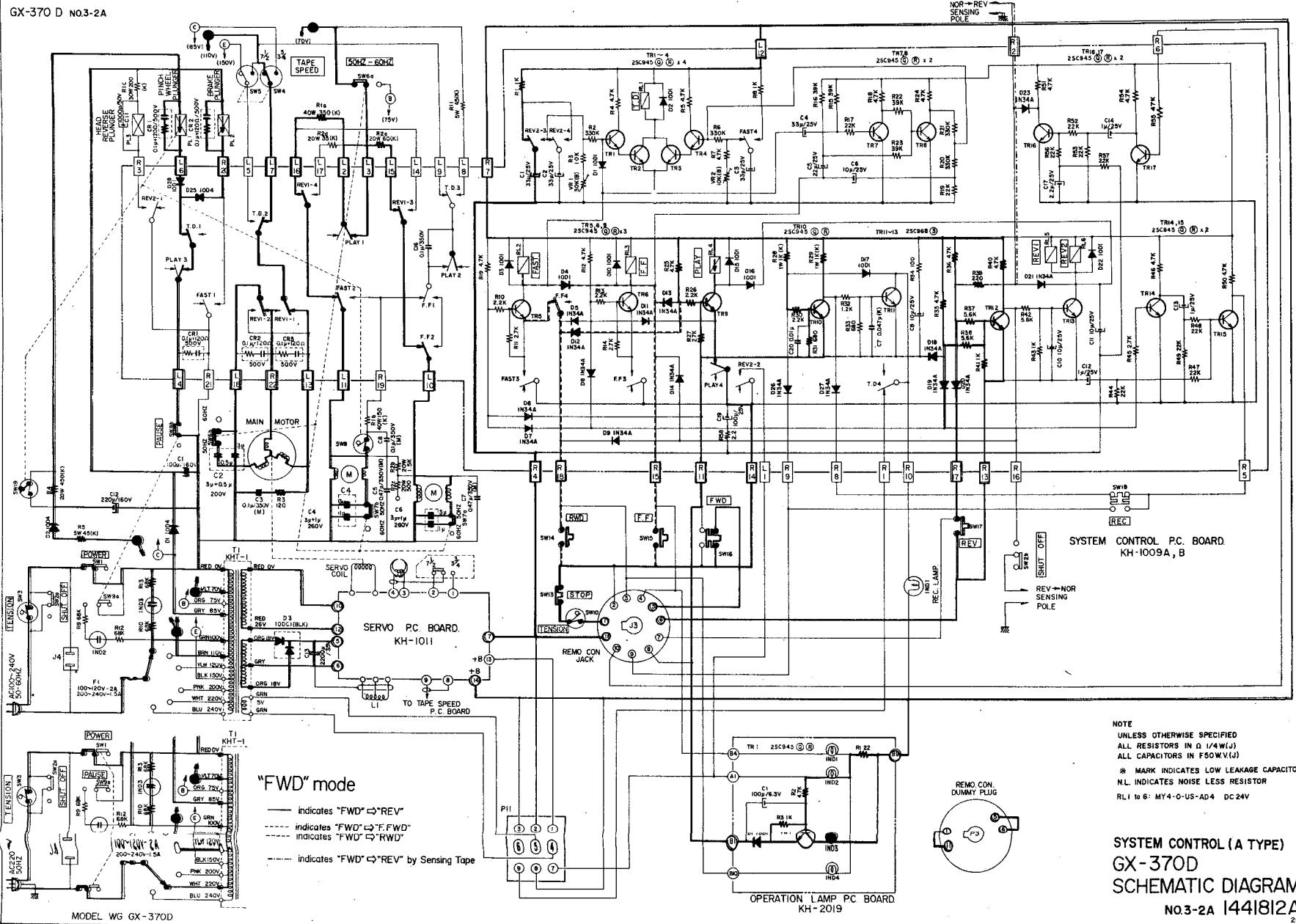
	FUNCTION	RWD	REV	STOP	FWD	F.FWD	FWD REC	REV REC
TRANSISTORS	TR1							
	TR2							
	TR3							
	TR4							
	TR5	○				○		
	TR6					○		
	TR7	○	○	○	○	○	○	○
	TR8	○	○	○	○	○	○	○
	TR9		○		○		○	○
	TR10	○	○	○	○	○		
	TR11						○	○
	TR12	○		○	○	○	○	○
	TR13		○					○
	TR14	○	○	○	○	○	○	○
	TR15						△	△
	TR16							
	TR17							
RELAYS	T.D RL1							
	FAST RL2	○				○		
	F.F RL3					○		
	PLAY RL4		○		○		○	○
	REV 1 RLS		○					○
	REV 2 RL6		○					○
PLUNGER SOLENOIDS	PINCH WHEEL PL1		○		○		○	○
	BRAKE PL2	○	○		○	○	○	○
	HEAD REV PL3		○					○

○ mark indicates "engaged"

△ mark indicates "momentarily engaged" when the REC, FWD or REV button is depressed

Chart 1

GX-370 D NO.3-2A



"FWD" mode

- indicates "FWD" ⇔ "REV"
 - - - indicates "FWD" ⇔ "F.FWD"
 - - - indicates "FWD" ⇔ "RWD"
 - - - indicates "FWD" ⇔ "REV" by Sensing Tap

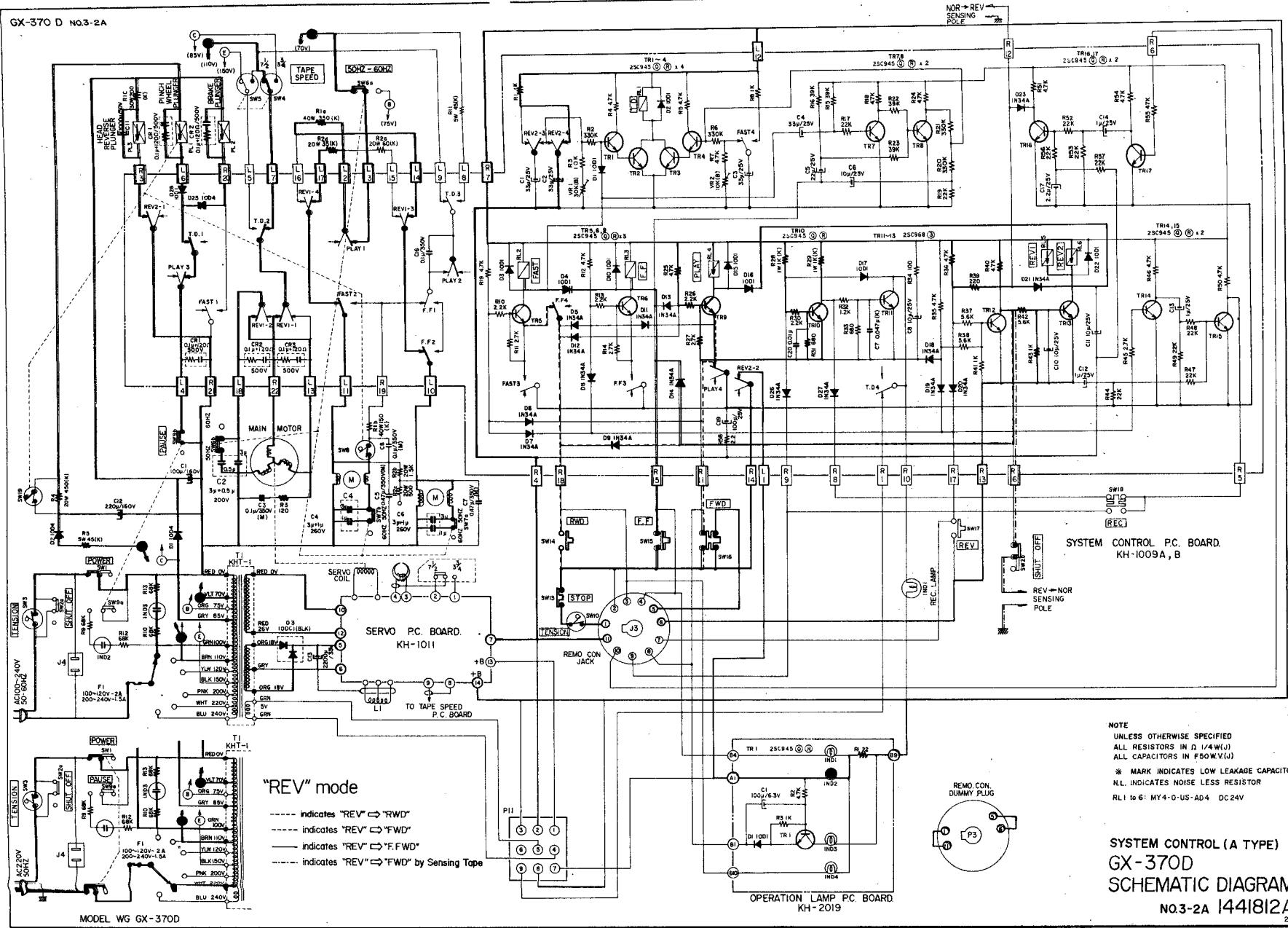
MODEL WG GX-370D

OPERATION LAMP PC BOAR
KH-2019

**SYSTEM CONTROL (A TYPE)
GX-370D
SCHEMATIC DIAGRAM
NO.3-2A 1441812A**

NOTE
UNLESS OTHERWISE SPECIFIED
ALL RESISTORS IN Ω 1/4W(μ)
ALL CAPACITORS IN F 50V.W.(μ)
*** MARK INDICATES LOW LEAKAGE CAPACITOR**
NL INDICATES NOISE LESS RESISTOR
RL1 to 6: MY4-0-US-AD4 DC 24V

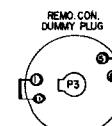
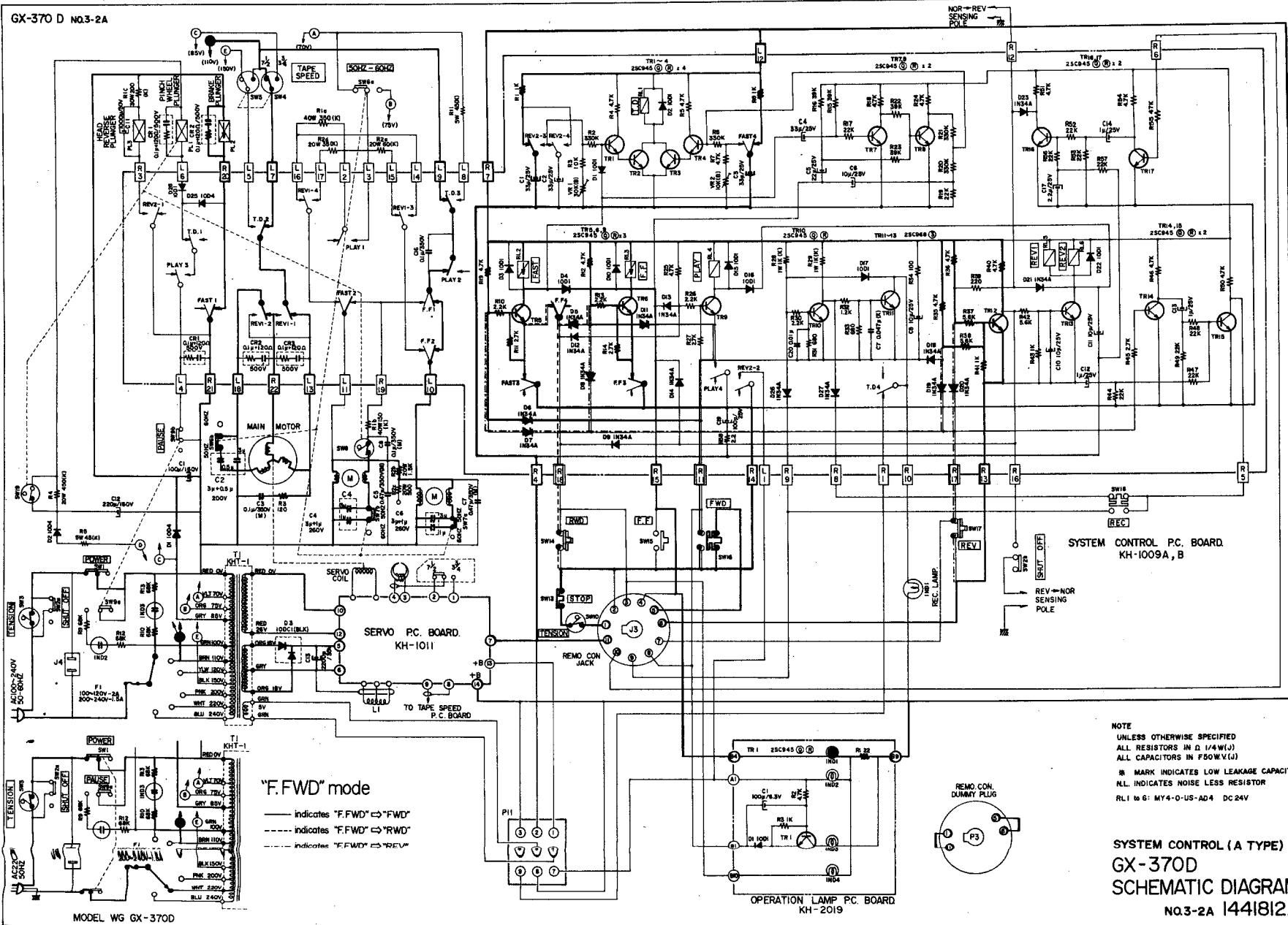
GX-370 D NO.3-2A



NOTE
 UNLESS OTHERWISE SPECIFIED
 ALL RESISTORS IN Ω 1/4W(W)
 ALL CAPACITORS IN F80W(V.U)
 * MARK INDICATES LOW LEAKAGE CAPACITOR
 N.L. INDICATES NOISE LESS RESISTOR
 R11 to 6: MY4-0-US-AD4 DC 24V

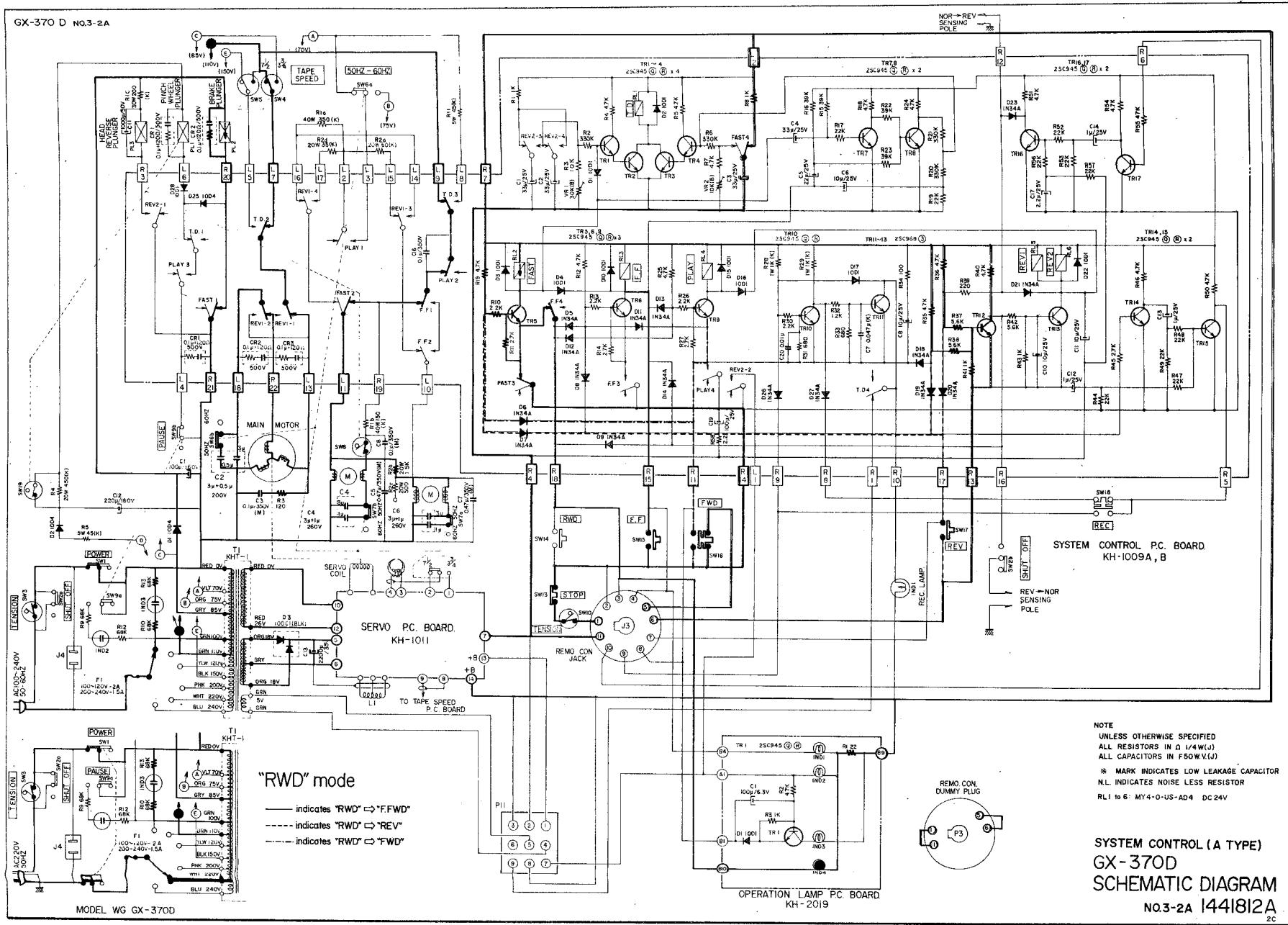
**SYSTEM CONTROL (A TYPE)
GX-370D
SCHEMATIC DIAGRAM**

GX-370 D NO.3-2A



OPERATION LAMP P.C. BOARD
KH-2019

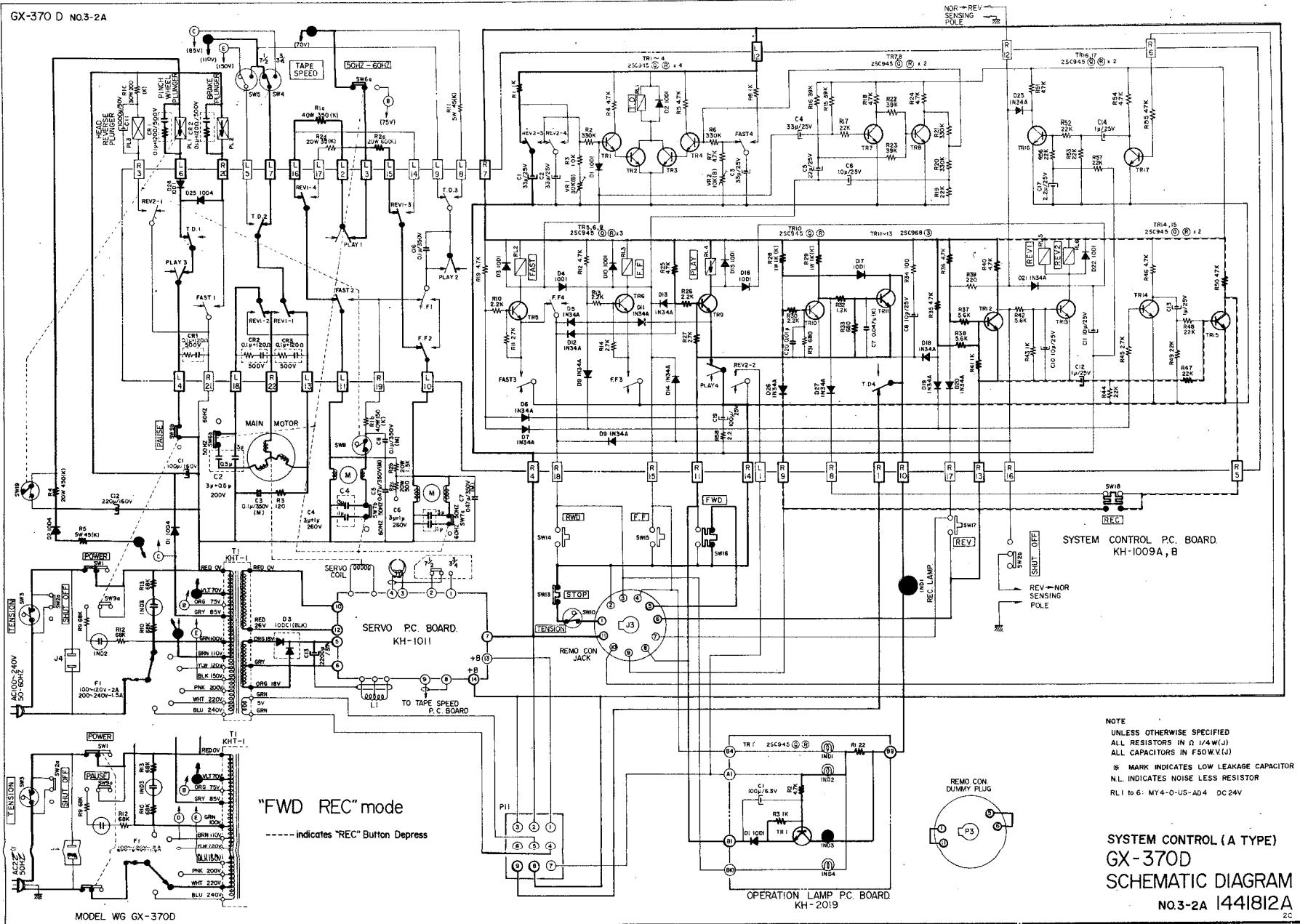
MODEL WG GX-370D



NOTE
UNLESS OTHERWISE SPECIFIED
ALL RESISTORS IN 1/4W (J)
ALL CAPACITORS IN F50V (J)
* MARK INDICATES LOW LEAKAGE CAPACITOR
NL INDICATES NOISE LESS RESISTOR
RL1 to 6: MY4-O-US-AD4 DC 24V

**SYSTEM CONTROL (A TYPE)
GX-370D
SCHEMATIC DIAGRAM
NO.3-2A I4418I2A**

GX-370 D NO.3-2A



"FWD REC" mode
----- indicates "REC" Button Depressed

MODEL WG GX-370D

SYSTEM CONTROL (A TYPE)
GX-370D
SCHEMATIC DIAGRAM
NO.3-2A 1441812A

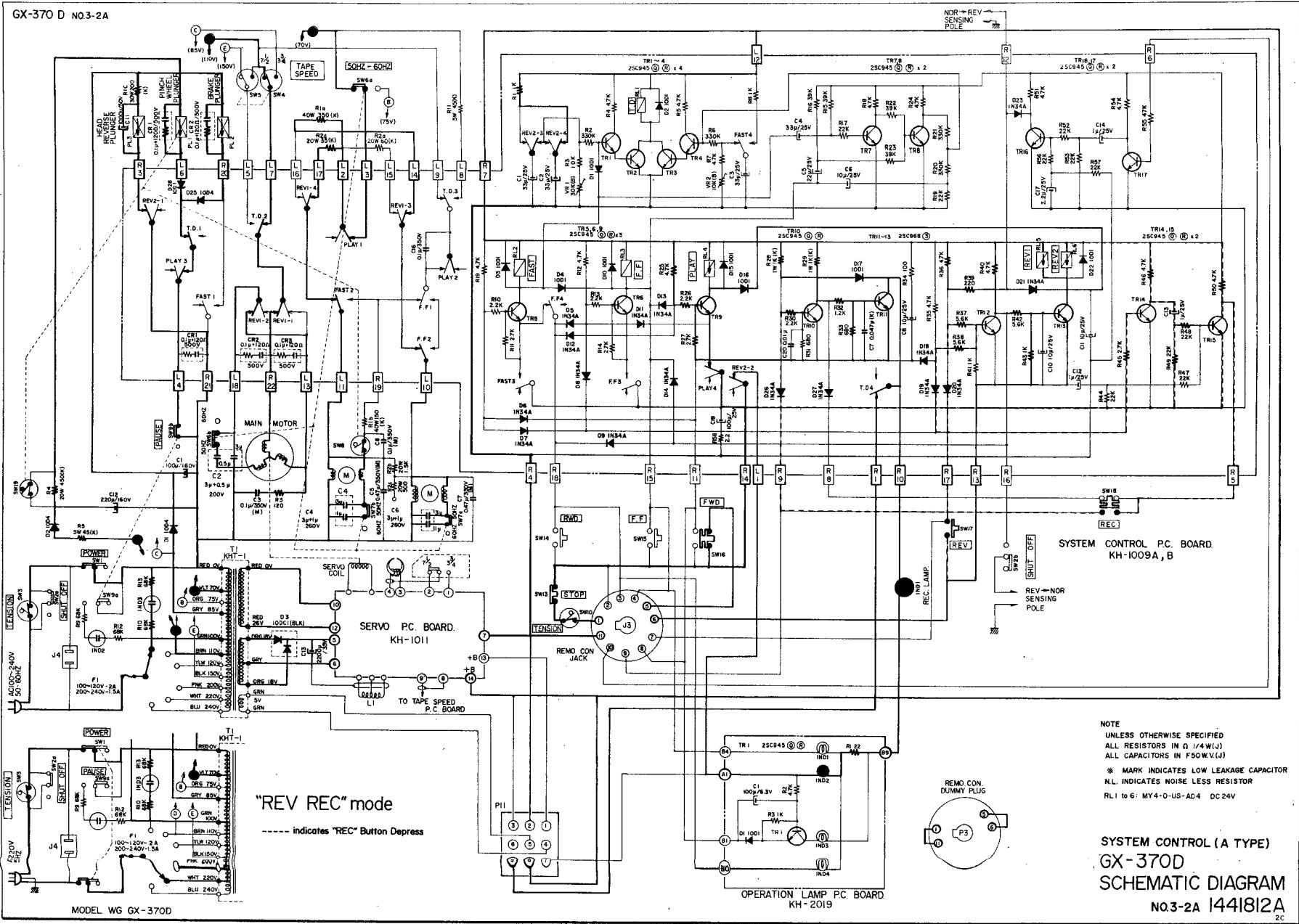
NO.3-2A 1441812A

2C

NOTE
UNLESS OTHERWISE SPECIFIED
ALL RESISTORS IN Ω 1/4W(U)
ALL CAPACITORS IN F50W.V.(J)

* MARK INDICATES LOW LEAKAGE CAPACITOR
NL INDICATES NOISE LESS RESISTOR

RL1 to G: MY-4-O-US-AD4 DC 24V

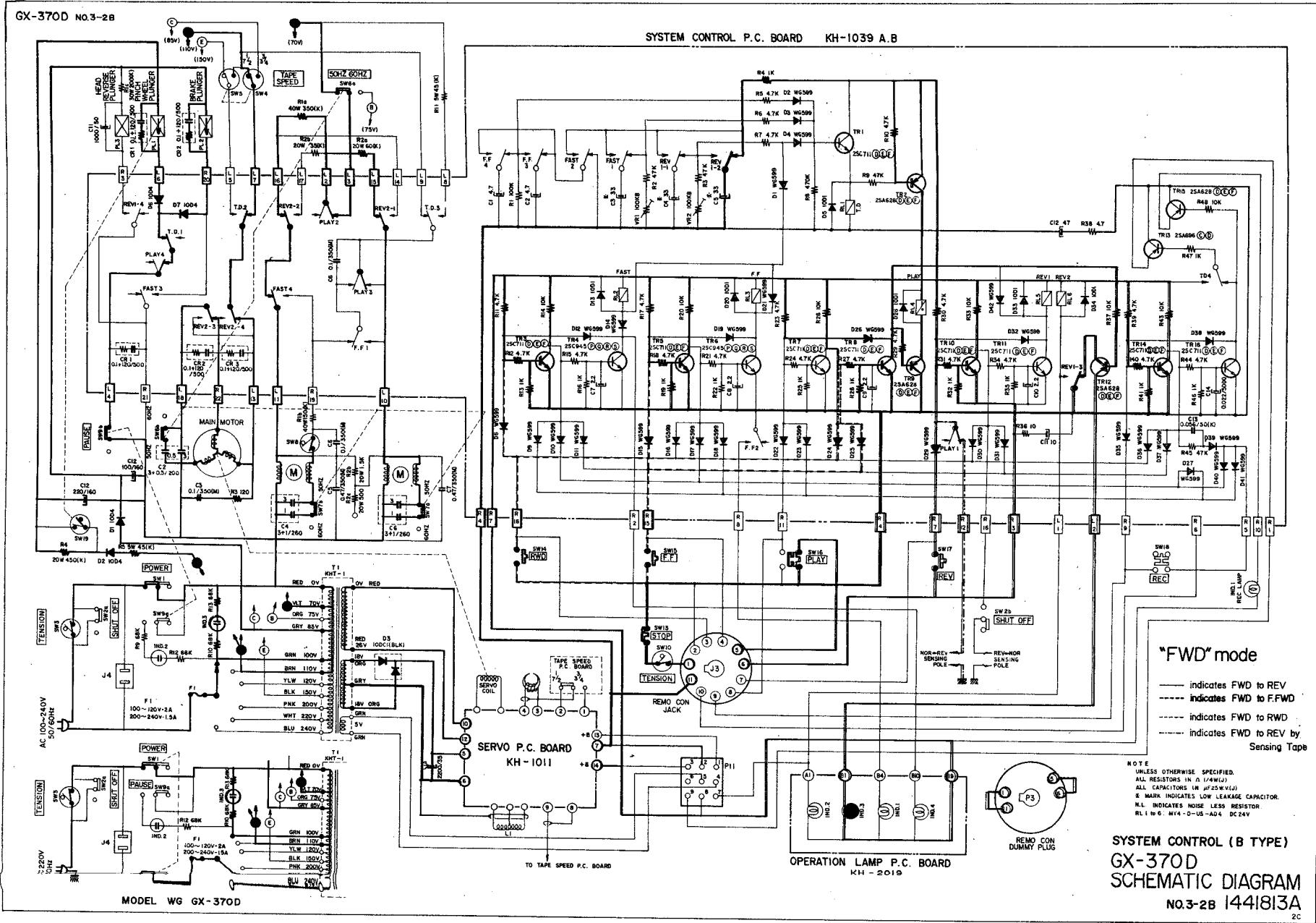


(Refer to Schematic Diagram 7 through 12)

FUNCTION		RWD	REV	STOP	FWD	F.FWD	FWD REC	REV REC
TRANSISTORS	TR1							
	TR2		○		○		○	○
	TR3		○	○	○	○	○	○
	TR4	○						
	TR5	○	○	○	○		○	○
	TR6					○		
	TR7	○		○		○		
	TR8		○		○		○	○
	TR9		○		○		○	○
	TR10	○		○	○	○	○	
	TR11		○					○
	TR12				○		○	
	TR13						○	○
	TR14	○	○	○	○	○		
	TR15						○	○
	TR16						○	○
PLUNGER SOLENOIDS	T.D RL1							
	FAST RL2	○				○		
	F.F RL3					○		
	PLAY RL4		○		○		○	○
	REV1 RL5		○					○
	REV2 RL6		○					○
	PINCH WHEEL PL1		○		○		○	○
	BRAKE PL2	○	○		○	○	○	○
	HEAD REV PL3		○					○

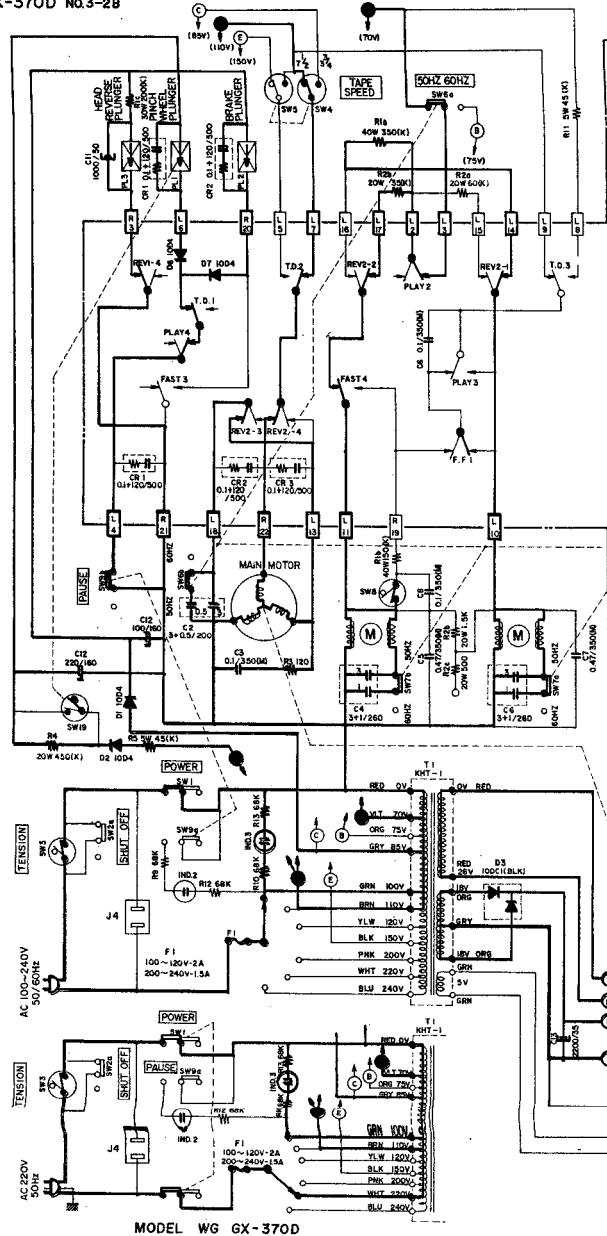
○ mark indicates "engaged"

Chart 2

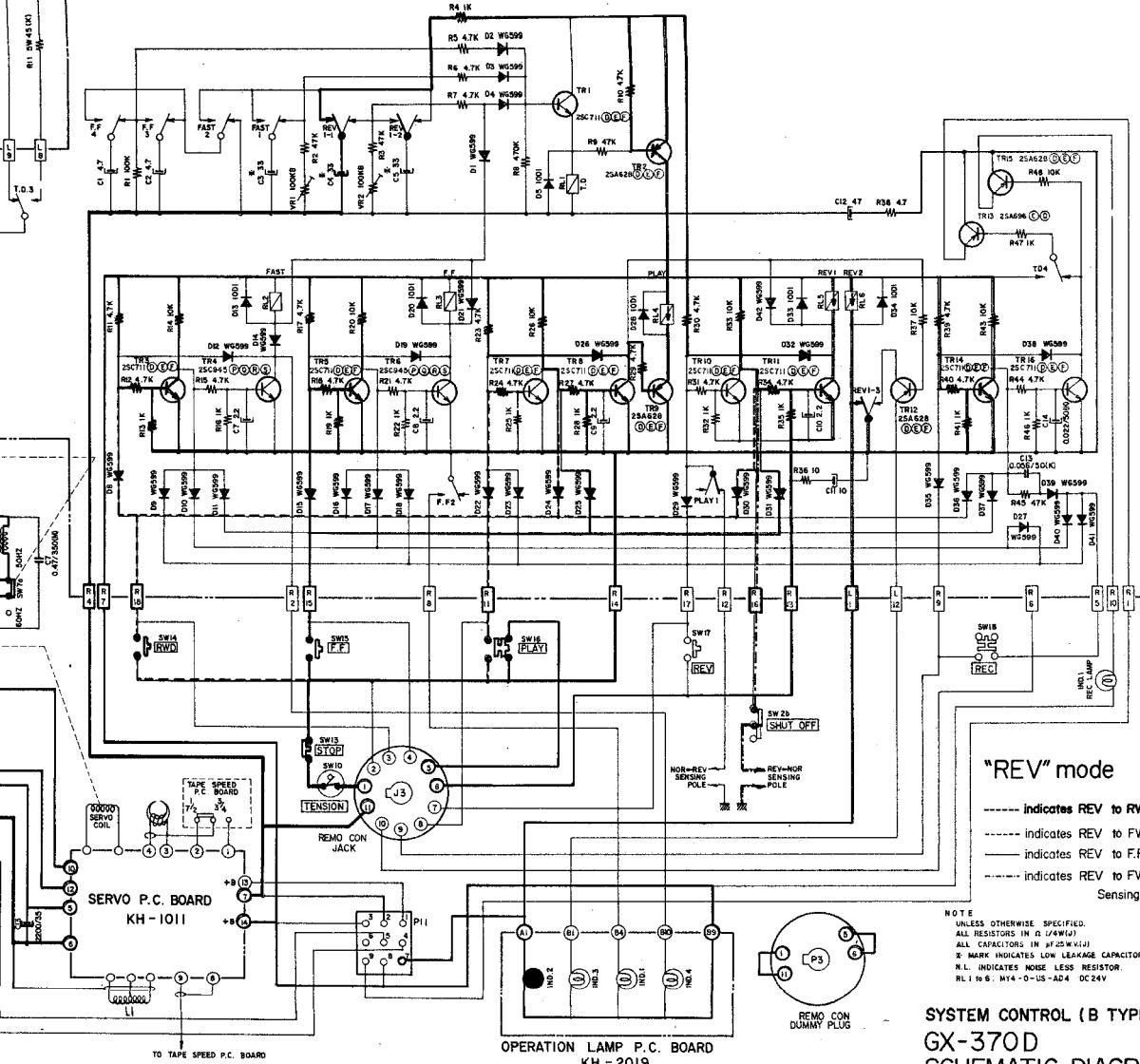


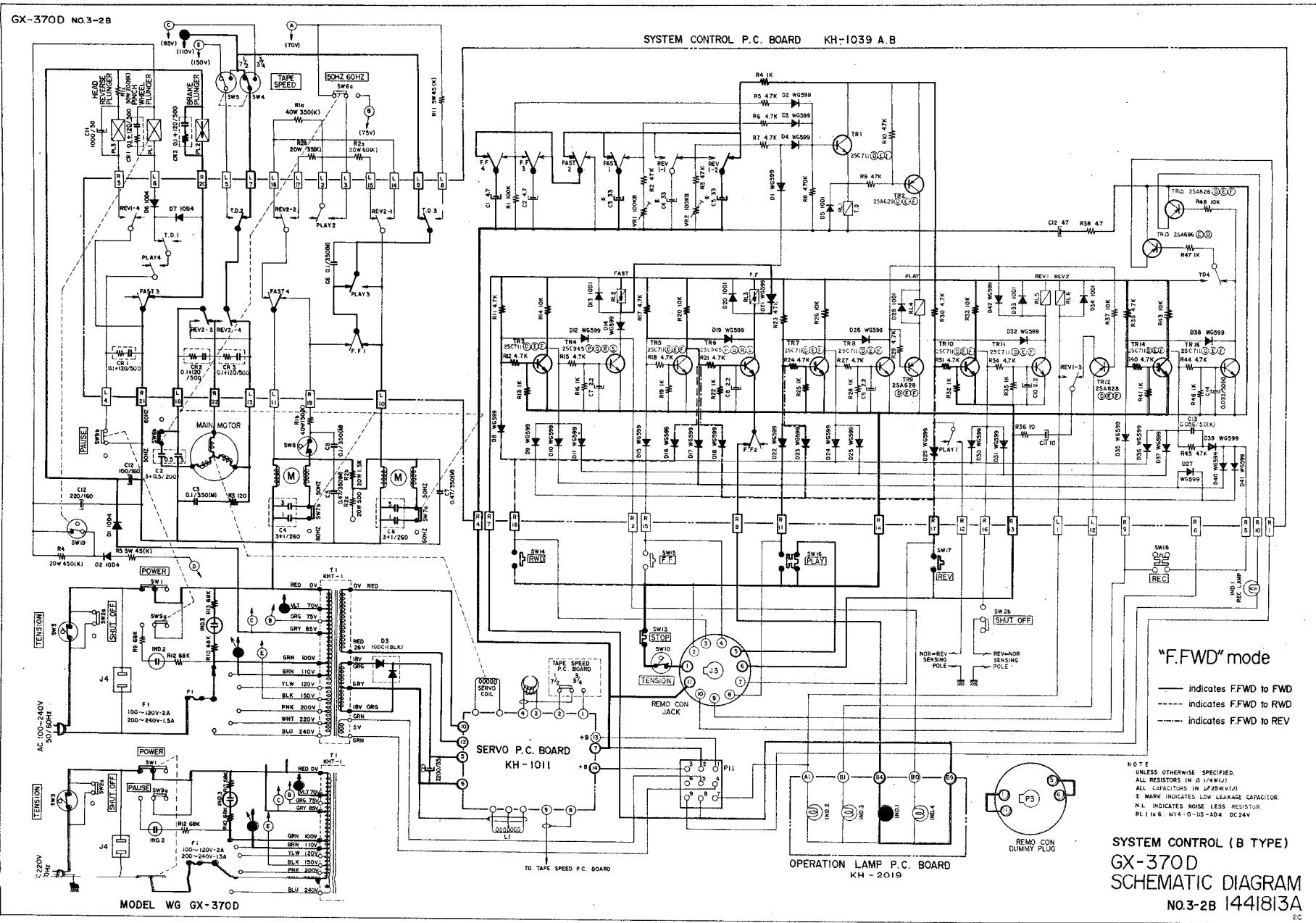
SYSTEM CONTROL (B TYPE)
GX-370D
SCHEMATIC DIAGRAM
NO.3-2B 1441813A

GX-370D NO.3-2B



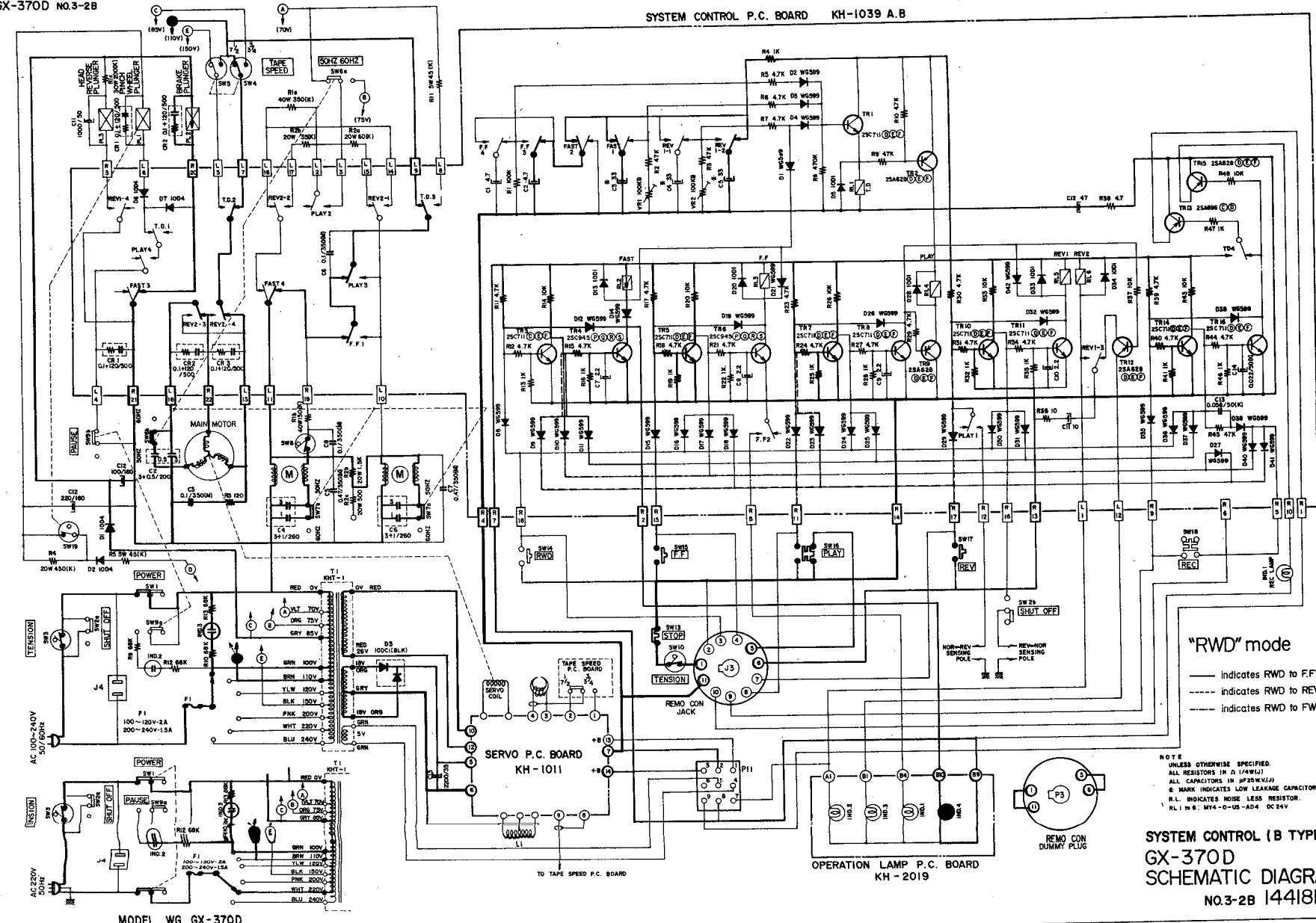
SYSTEM CONTROL P.C. BOARD KH-1039 A/B

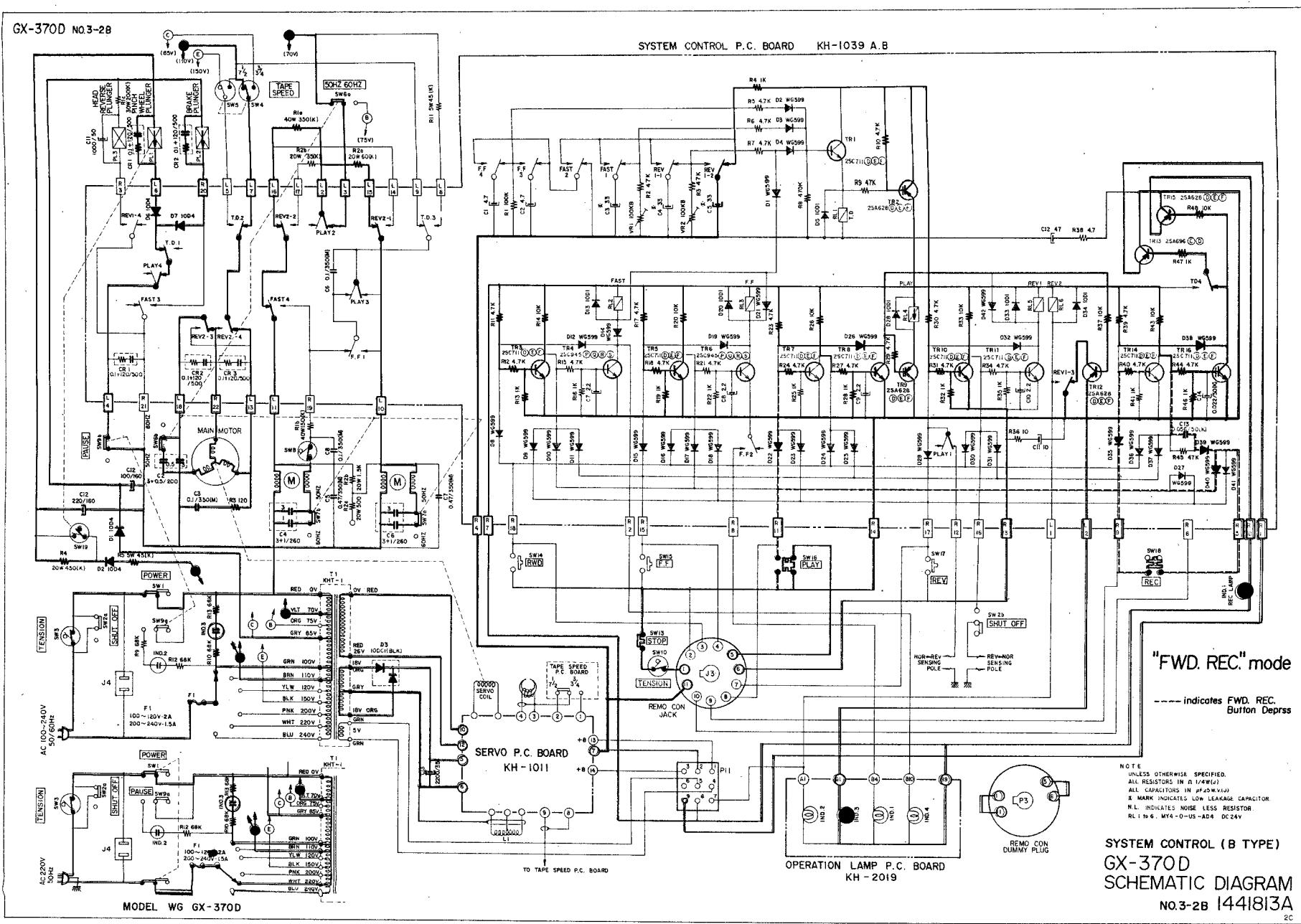
SYSTEM CONTROL (B TYPE)
GX-370D
SCHEMATIC DIAGRAM
NO.3-2B 1441813A

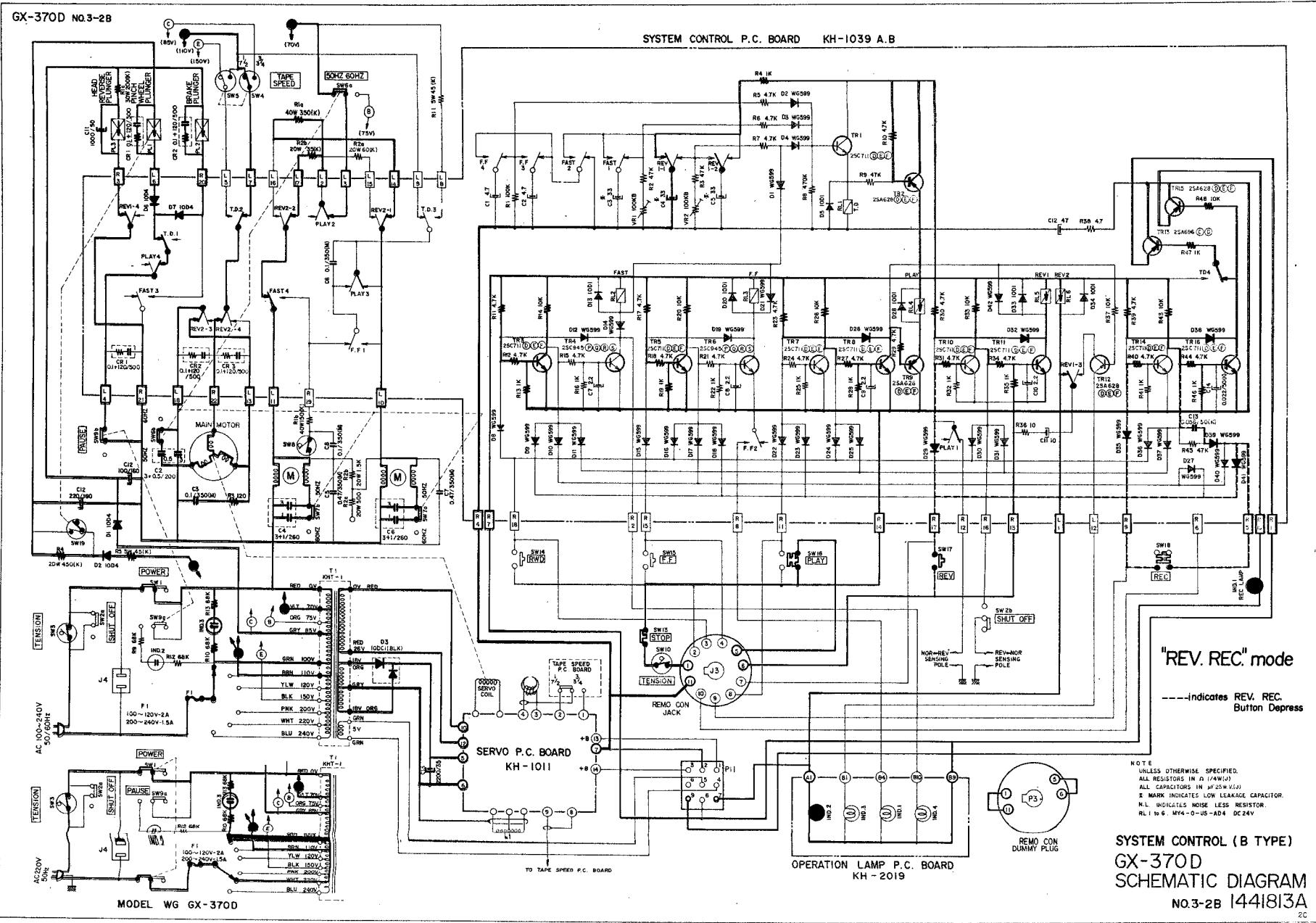


GX-370D NO.3-2B

SYSTEM CONTROL P.C. BOARD KH-1039 A.B







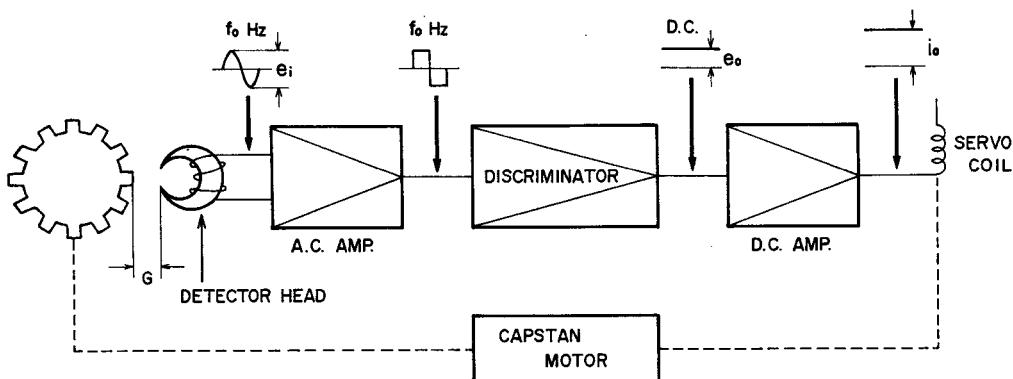
2. VOLTAGE SUPPLY TO TORQUE MOTOR AND TENSION AT VARIOUS MODES

MODE \ TORQUE MOTOR	Left Side	Right Side
FWD	29V (35V) 50g	55V (62V) 170g
REV	61V (67V) 210g	29V (35V) 50g
F.FWD	10V (10V) 15g	118V (118V) 600g
RWD	118V (118V) 600g	10V (10V) 15g

() indicates Voltage at 60 Hz.

Chart 3

VIII. SERVO MOTOR OPERATING PRINCIPLES



G (Gap): Adjust to obtain a detector head terminal voltage of 3 ± 0.5 mV at 7-1/2 ips.

Fig. 21

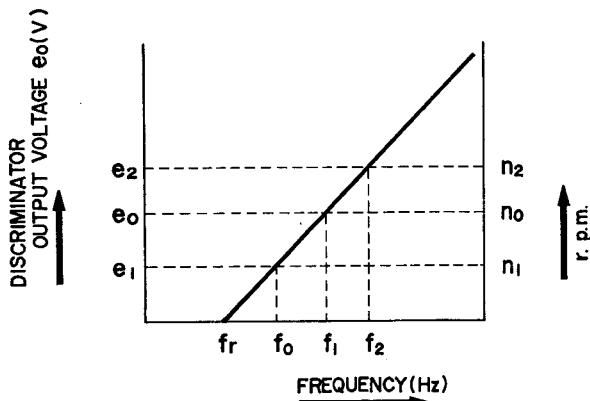


Fig. 22

1. The detector head core is comprised of a permanent magnet, and the gear installed on the motor, by means of the capstan motor revolutions, changes the magnetic flux of the detector head core. Accordingly, the detector head coil works in the same way and generates AC Voltage (becomes the detector signal described below). When this detector signal voltage (e_i) becomes detector signal frequency (f_0), this adjusts the capstan motor revolutions proportionately. (See Figs. 21 & 22)
2. When the detector signal voltage generated from the detector head is about 3 mV (at 7-1/2 ips), because the level is low, the perpendicular (up and down) waveform is amplified by the AC Amplifier until the waveform is clipped. (See Fig. 21)

3. Discriminator Coil L-1 (V12031SC-01) and C-210 (0.051/50) at 7-1/2 ips (and C-211 (0.27/100) at 3-3/4 ips) constitute the resonance circuit, and this resonance frequency becomes f_r . Because the detector signal frequency generated at the detector coil differs according to capstan motor revolutions, the capacity of the discriminator resonance condenser changes, and the resonance frequency changes at the different tape speeds of 7-1/2 and 3-3/4 ips.

4. When the discriminator input frequency and the resonance frequency f_r are simultaneous, the DC signal to be supplied to the next stage DC Amplifier is not generated. Consequently, when the capstan motor rotates at normal speed, a higher than resonance frequency f_r , detector signal. Signal frequency f_0 is established.

5. As shown in Chart 4, when electric current is not flowing to the capstan motor servo coil, the capstan motor revolutions are far faster than normal revolutions. Consequently, in order to maintain normal revolutions, an electro-magnetic field is generated at the servo coil by means of collector current flowing to TR-209 (2SD234), and this serves as an electro-magnetic brake. This electro-magnetic brake and the load torque balances the capstan motor torque and normal revolutions are maintained.

TAPE SPEED	Capstan motor supply voltage	Capstan motor supply voltage at FWD or REV starting time	Voltage and frequency generated at the detector coil	Controlled capstan motor speed	Uncontrolled capstan motor speed
7-1/2 ips	110V	150V	3 mV \pm 0.5 mV / 1040 Hz	520 r.p.m.	1420 r.p.m.
3-3/4 ips	85V	110V	1.5 mV \pm 0.25 mV / 520 Hz	260 r.p.m.	1380 r.p.m.

Chart 4

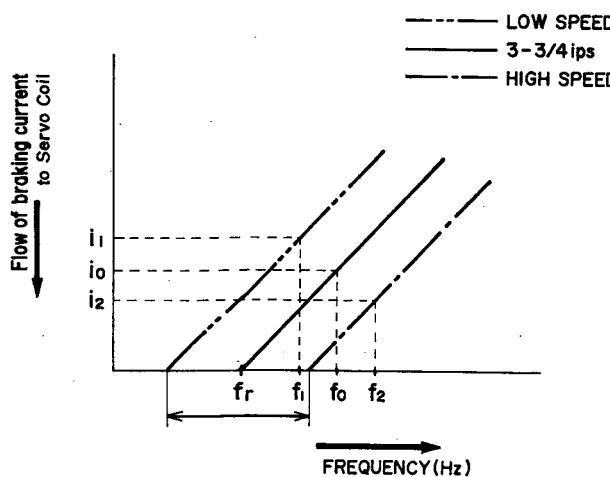


Fig. 23

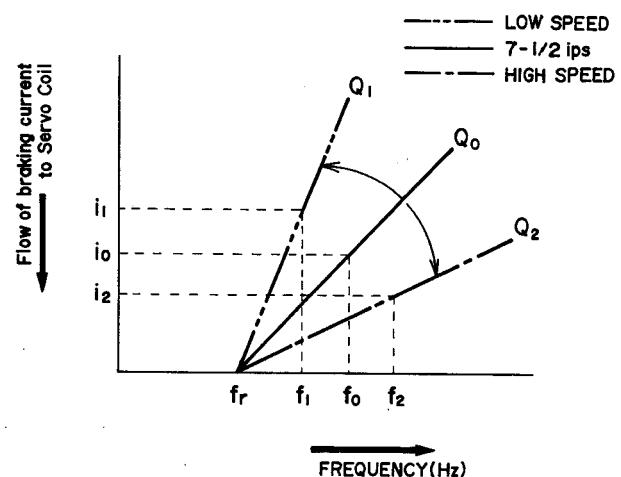


Fig. 24

6. In case of the capstan motor revolutions having reached the speed of n_2 , the detector signal produced at the detector coil surpasses f_o and advances toward the higher f_2 frequency. (See Figs. 23 & 24). Accordingly, the flow of current to the servo coil increases, and because the electro-magnetic braking supplied to the capstan motor is increased, the capstan motor revolutions become slower, and normal revolutions are regained.
7. In case of the capstan motor revolutions having slowed to n_1 , the detector signal produced at the detector coil drops to lower than f_o and descends toward the low f_1 frequency (See Figs. 23 & 24). Accordingly, the flow of current to the servo coil decreases, and because the electro-magnetic braking supplied to the capstan motor is decreased, the capstan motor revolutions speed up and normal revolutions are regained.

8. To obtain the proper number of revolutions, adjustment of the flow of brake current to the servo coil is necessary.

1) At 3-3/4 ips tape speed

As shown in Fig. 23, resonance frequency f_r (between the arrow mark) is changed by adjusting the dust core of discriminator coil L-1 (V1203 1SC-01). Accordingly, f_o is also changed between f_1 and f_2 , and the flow of braking current (i_o) to the servo coil is also changed between i_1 and i_2 . Consequently, correct tape speed can be attained by using a tape speed measuring tape and a Frequency Counter and adjusting the dust core of coil L-1.

2) At 7-1/2 ips tape speed

As shown in Fig. 24, Q_0 of the resonance circuit (within the arrow mark with f_r as center frequency), is changed by adjusting discriminator semi-fixed resistor VR-202 (2k B). Therefore, f_o is also changed between f_1 and f_2 and, the flow of current (i_o) to the servo coil is also changed between i_1 and i_2 . Consequently, correct tape speed can be attained by using a tape speed measuring tape and a Frequency Counter and adjusting semi-fixed resistor VR-202.

IX. DIFFERENTIATION OF SYSTEM CONTROL SCHEMATIC DIAGRAM & P. C. BOARD

1. Because the System Control Schematic Diagram and the P.C. Board are differentiated by serial number, the following (Chart 5) is provided for reference.

Serial Number	Schematic Diagram No.	P.C. Board
# 70301-0001 to # 70809-2000	No. 3-3A	KH-1009A, B
from # 71011-0001	No. 3-3B	KH-1039A, B

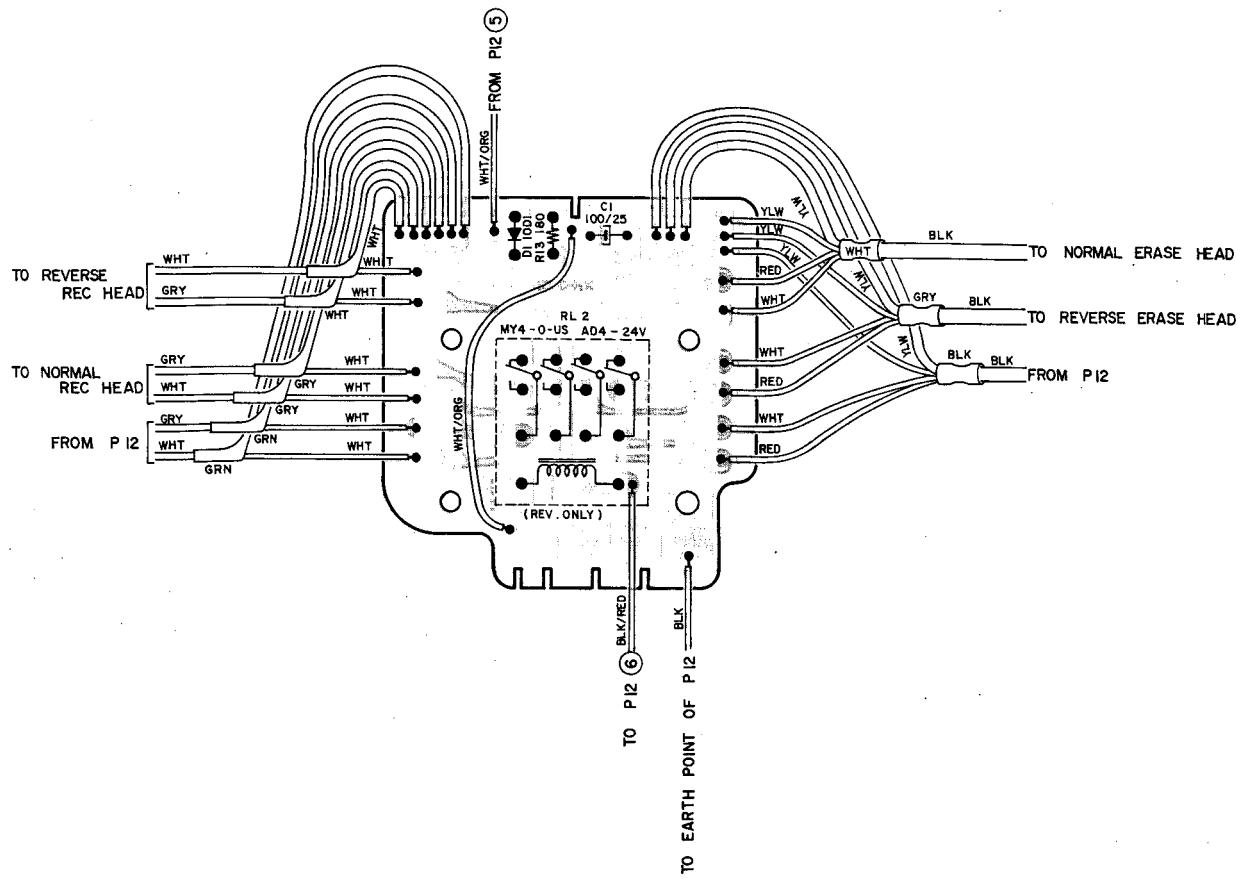
Chart 5

Accordingly, because System Control P.C. Board KH-1009A, B and KH-1039A, B are not interchangeable, when placing your order, be sure to state the System Control P.C. Board number.

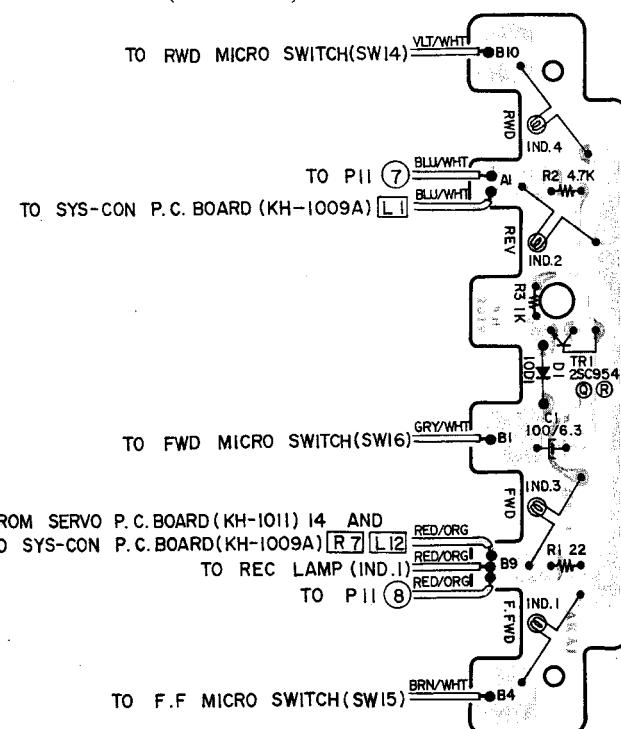
2. When using a KH-1039A, B in a machine employing System Control P.C. Board KH-1009A, B, the following changes are also necessary.
 - 1) Remove the lead wires connected to operation switches SW-14 (RWD), SW-15 (F.FWD), and SW-16 (FWD) from terminals (B1) (B4) and (B10) of the Operation Lamp P.C. Board.
 - 2) Remove the multi-socket terminal [L12] lead wire connected to the System Control P.C. Board, and connect terminals [L12] and (B1).
 - 3) Remove the multi-socket terminal [R8] lead wire connected to the System Control P.C. Board, and connect terminals [R8] and (B4).
 - 4) Remove the multi-socket terminal [R2] lead wire and connect terminals [R2] and (B10).
 - 5) Disconnect the various inner components (resistor, capacitor, diode, and transistor) of the Operation Lamp P.C. Board and directly connect Lamps IND-1 through IND-4.

X. COMPOSITE VIEWS OF COMPONENTS

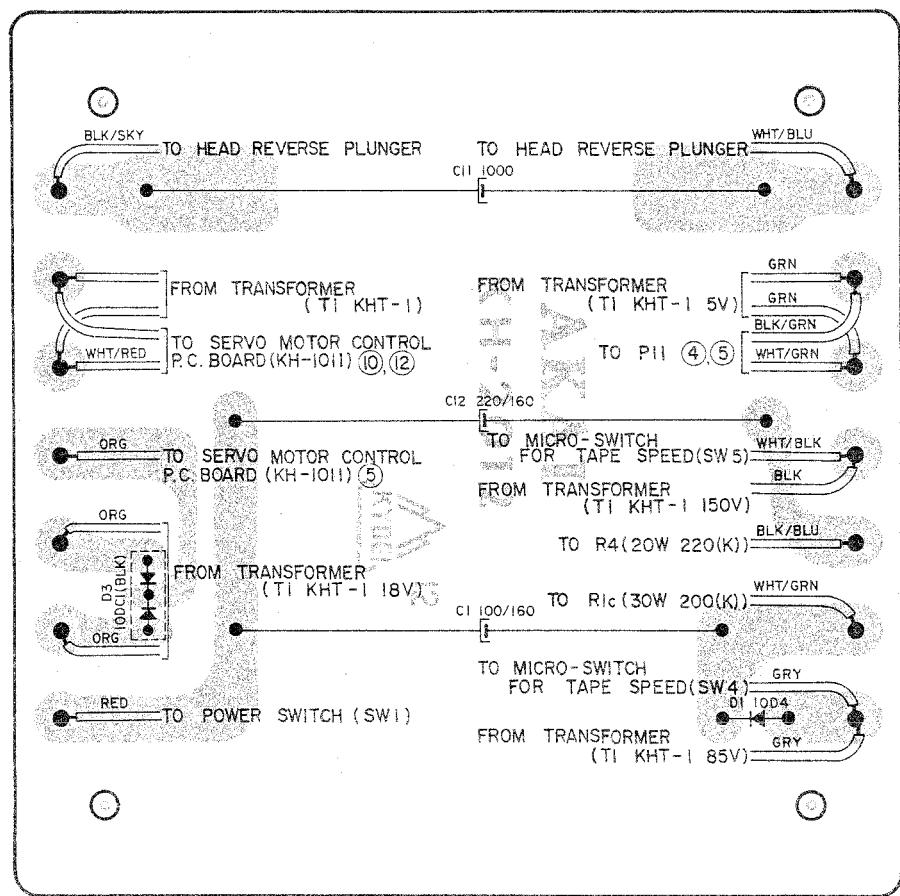
HEAD RELAY P.C. BOARD (KH-0029)



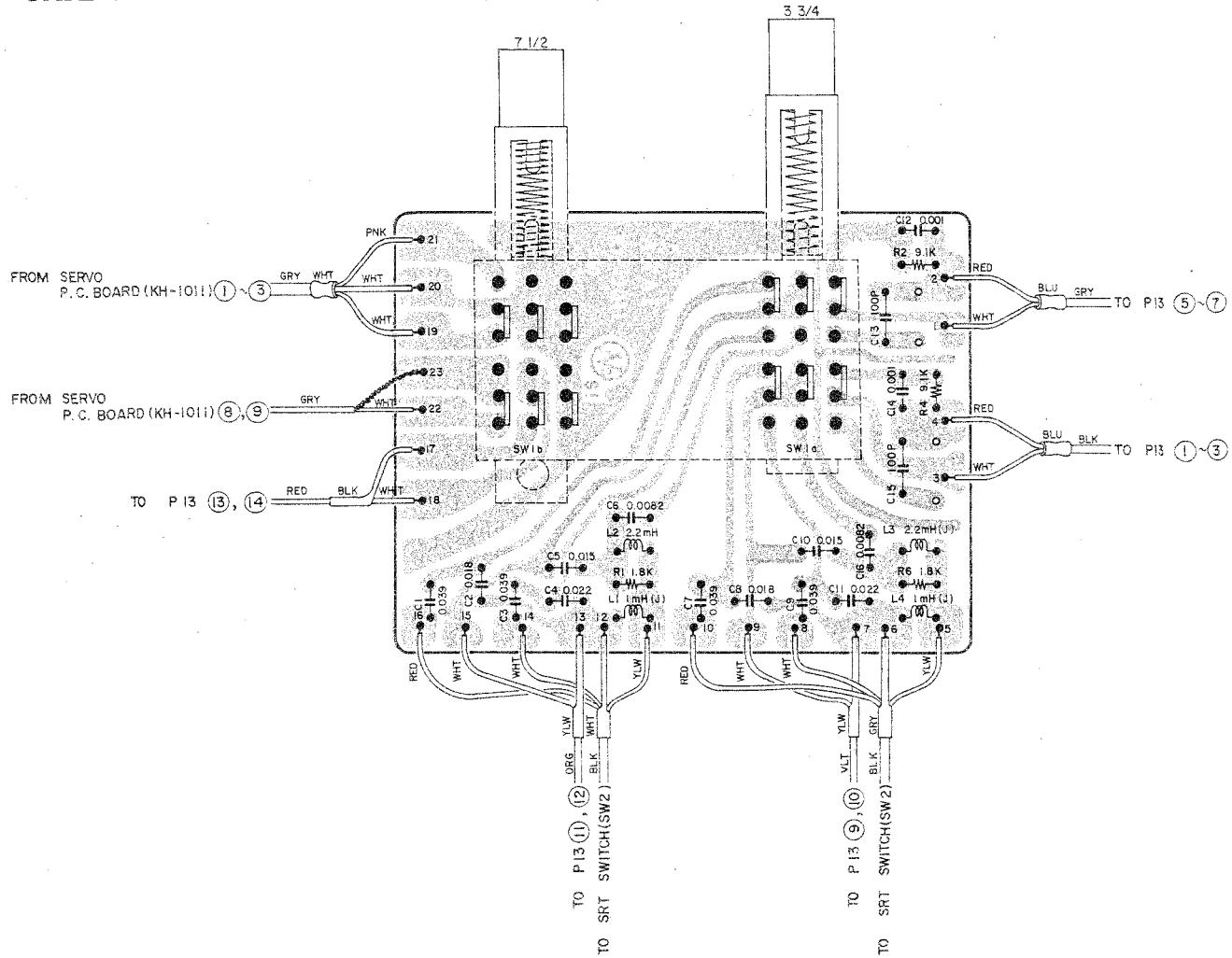
OPERATION LAMP P.C. BOARD (KH-2019)



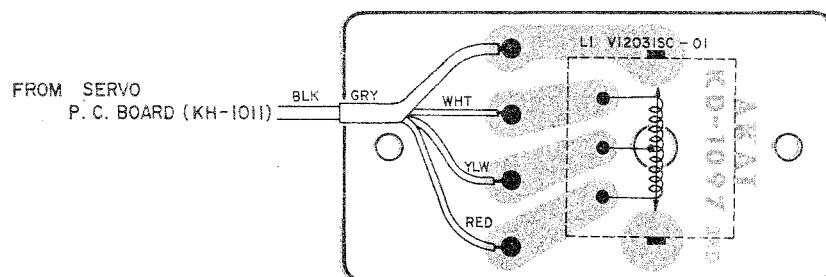
CAPACITOR P.C. BOARD (KH-2012)



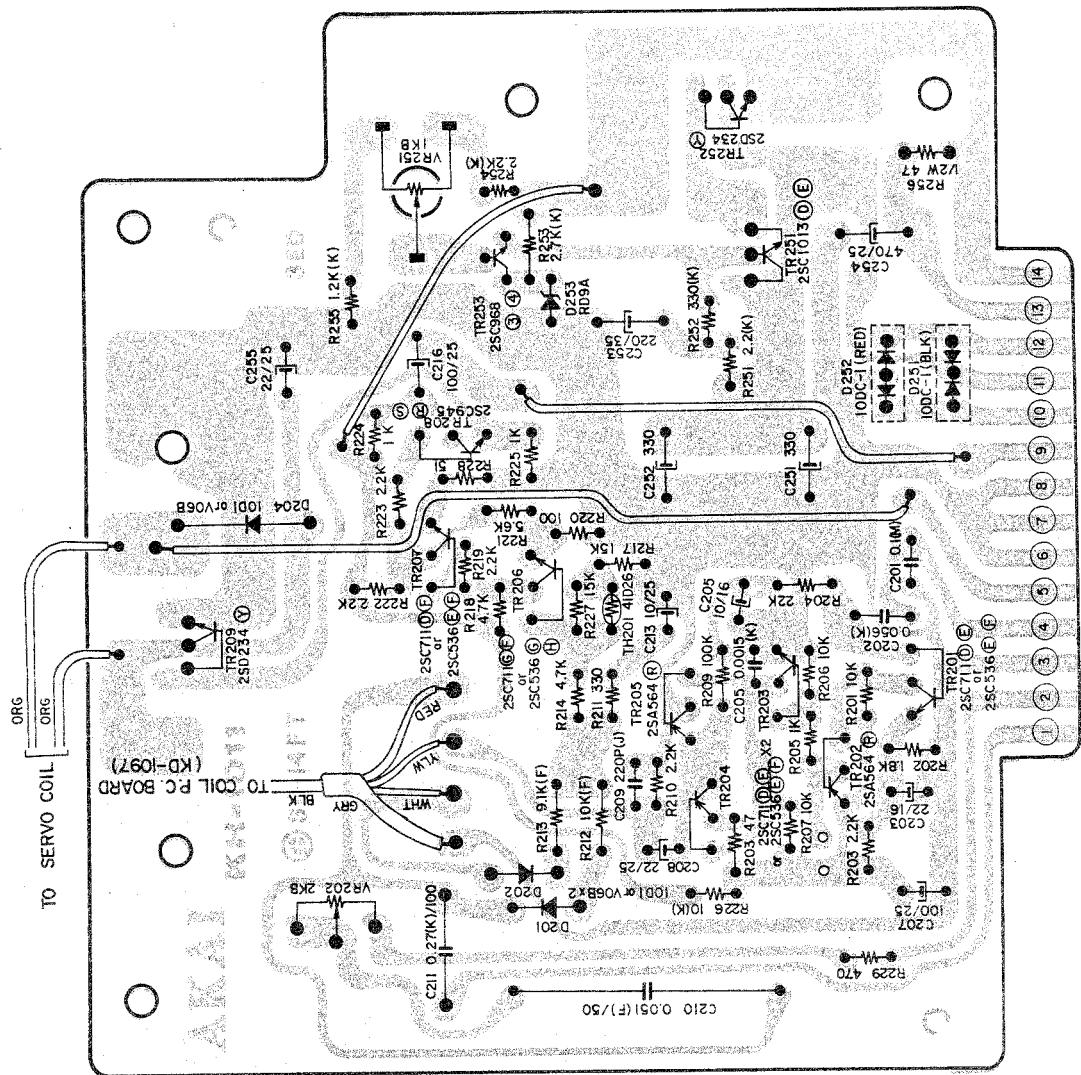
TAPE SPEED SWITCH P.C. BOARD (KH-2011)



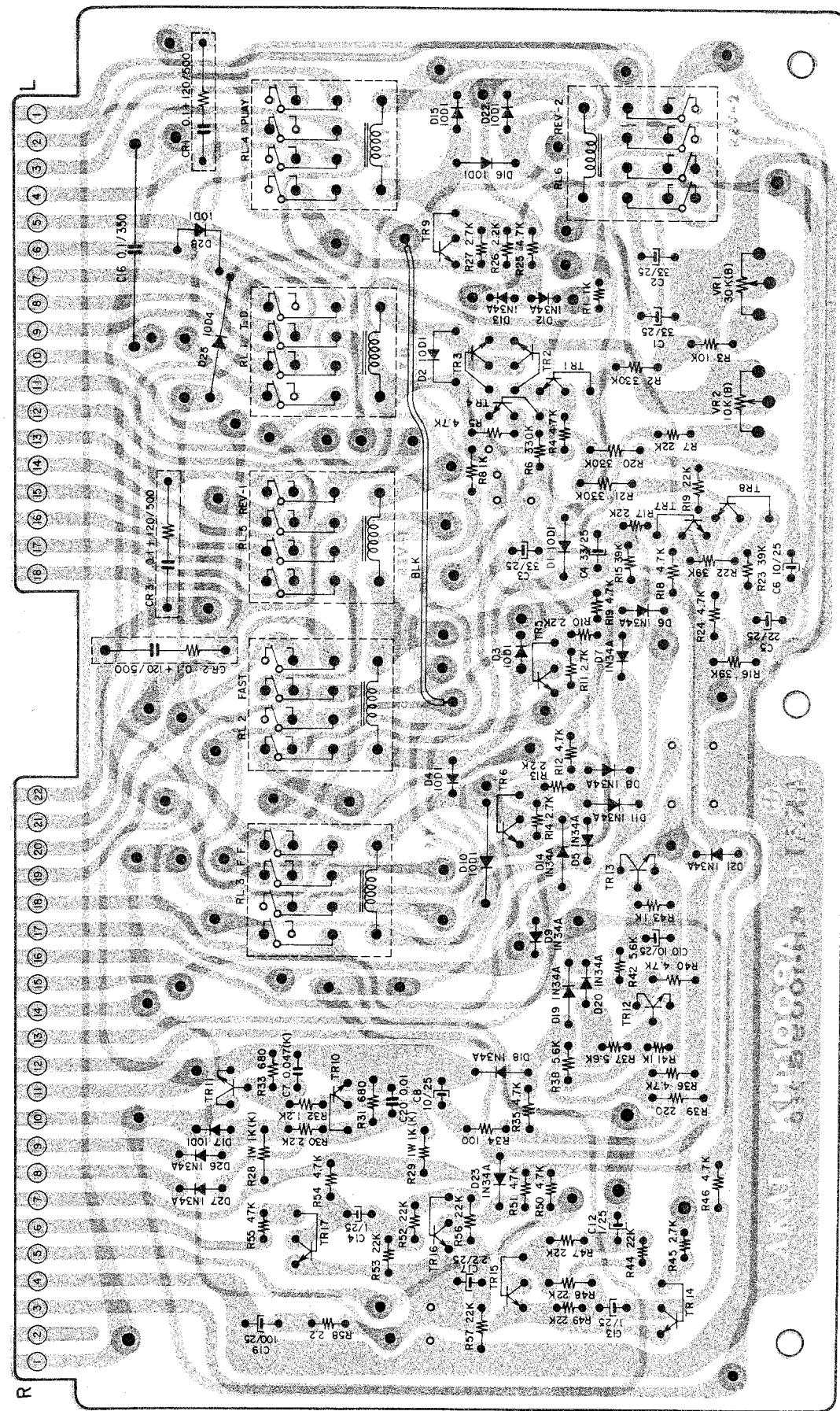
COIL P.C. BOARD (KD-1097 2ED)



SERVO P.C. BOARD (KH-1011)



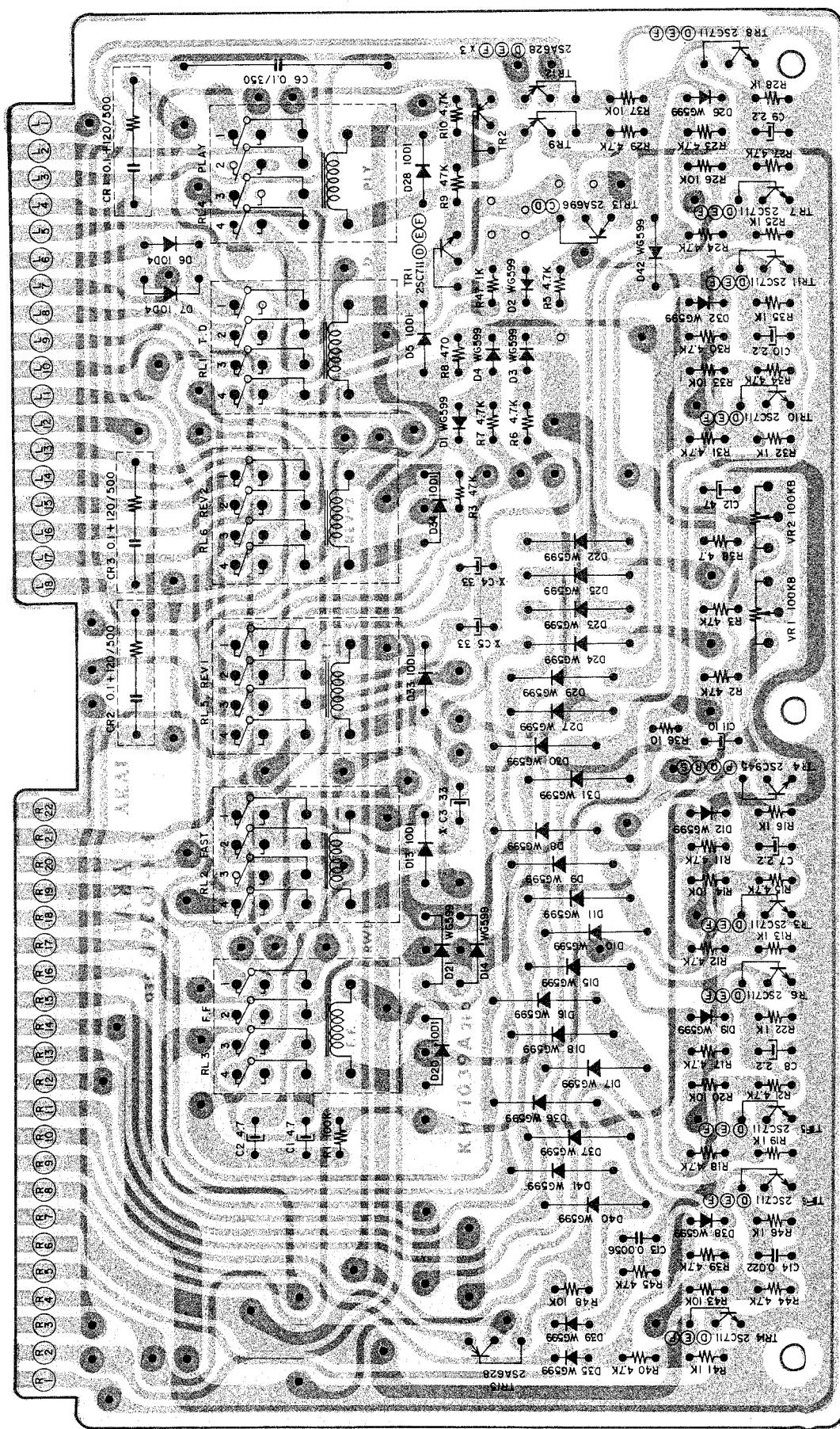
SYSTEM CONTROL P.C. BOARD (KH-1009)



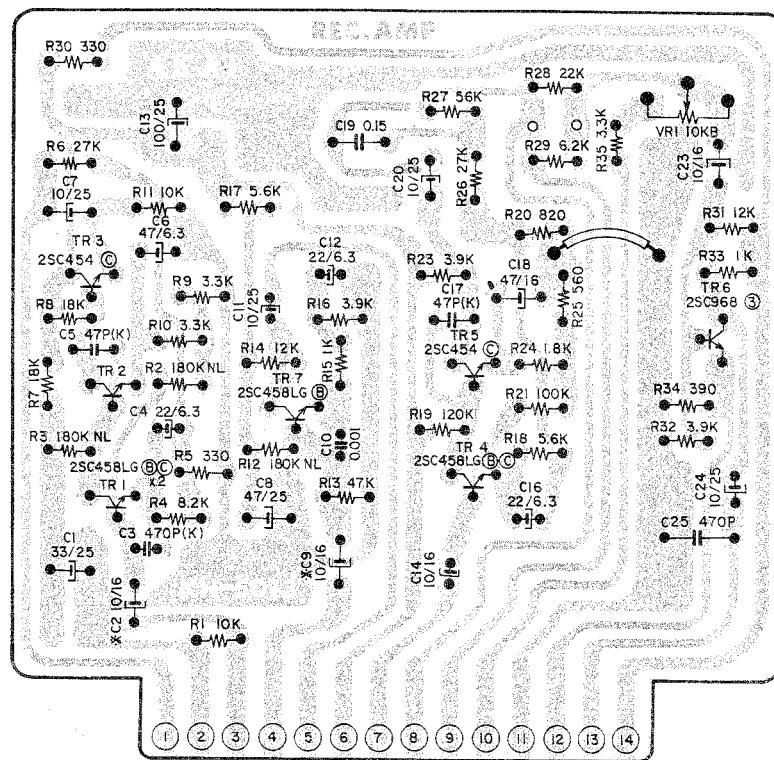
TR11 to 13 2SC968 ③

RL1 106 : MY4-0-US-AD4 DC24V

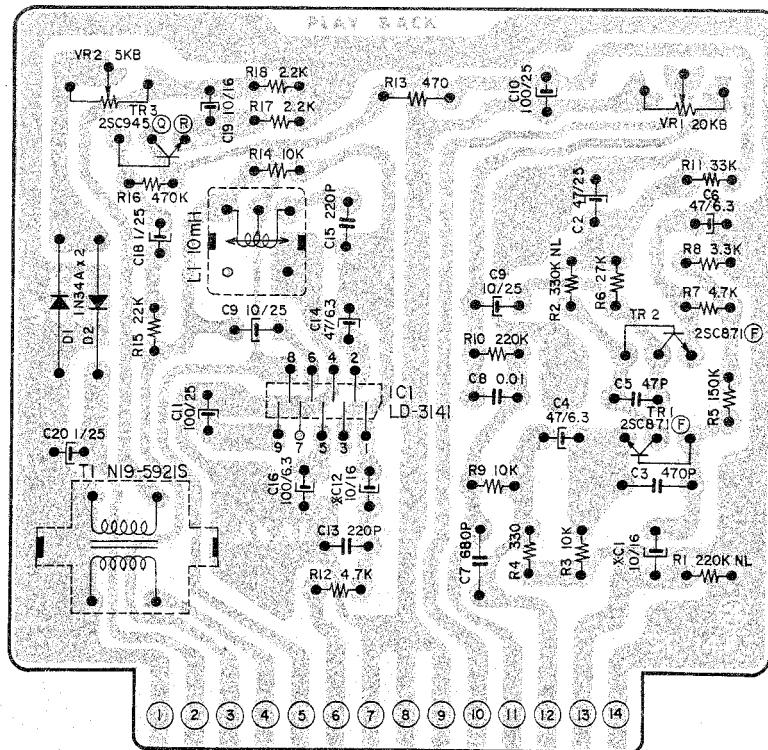
SYSTEM CONTROL P.C. BOARD (KH-1039)



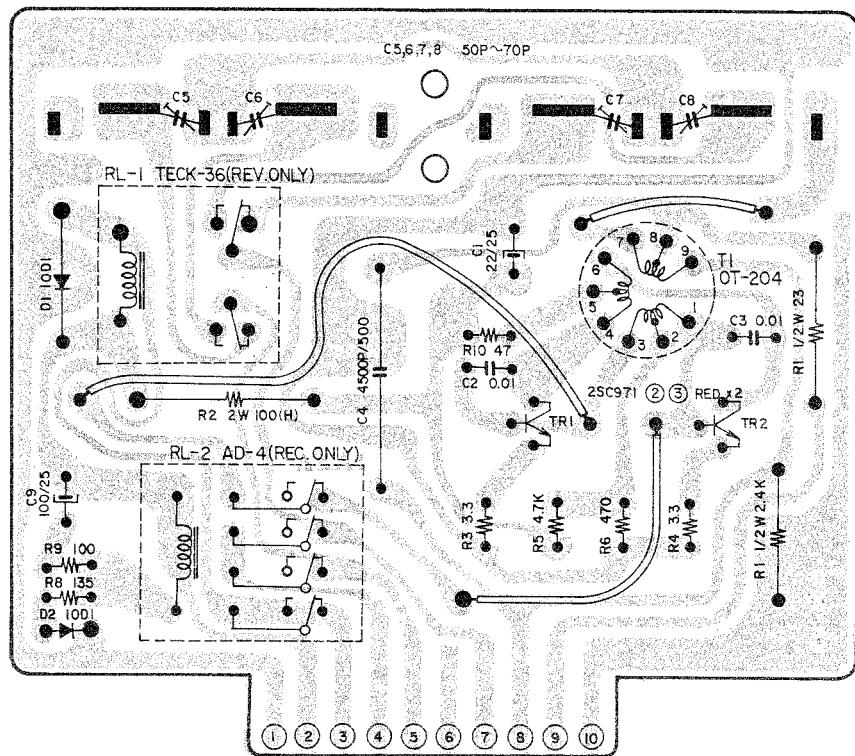
REC. AMP. P.C. BOARD (KH-5013)



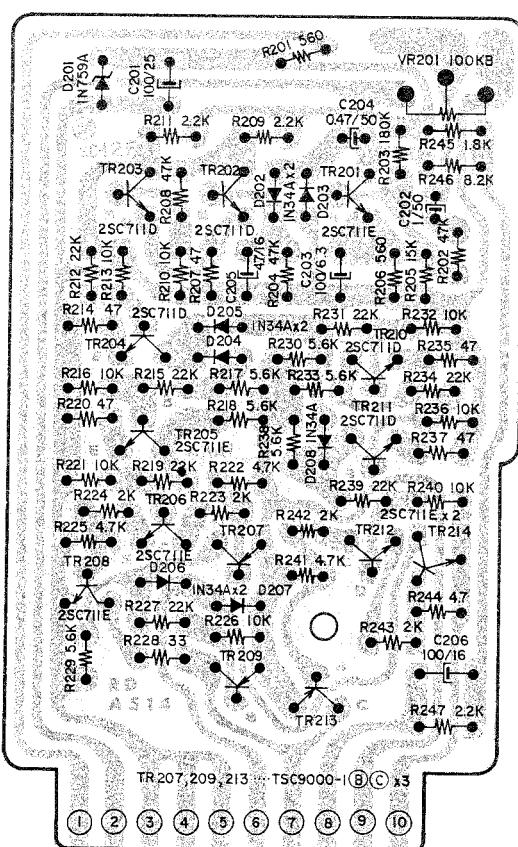
P.B. AMP P.C. BOARD (KH-5014)



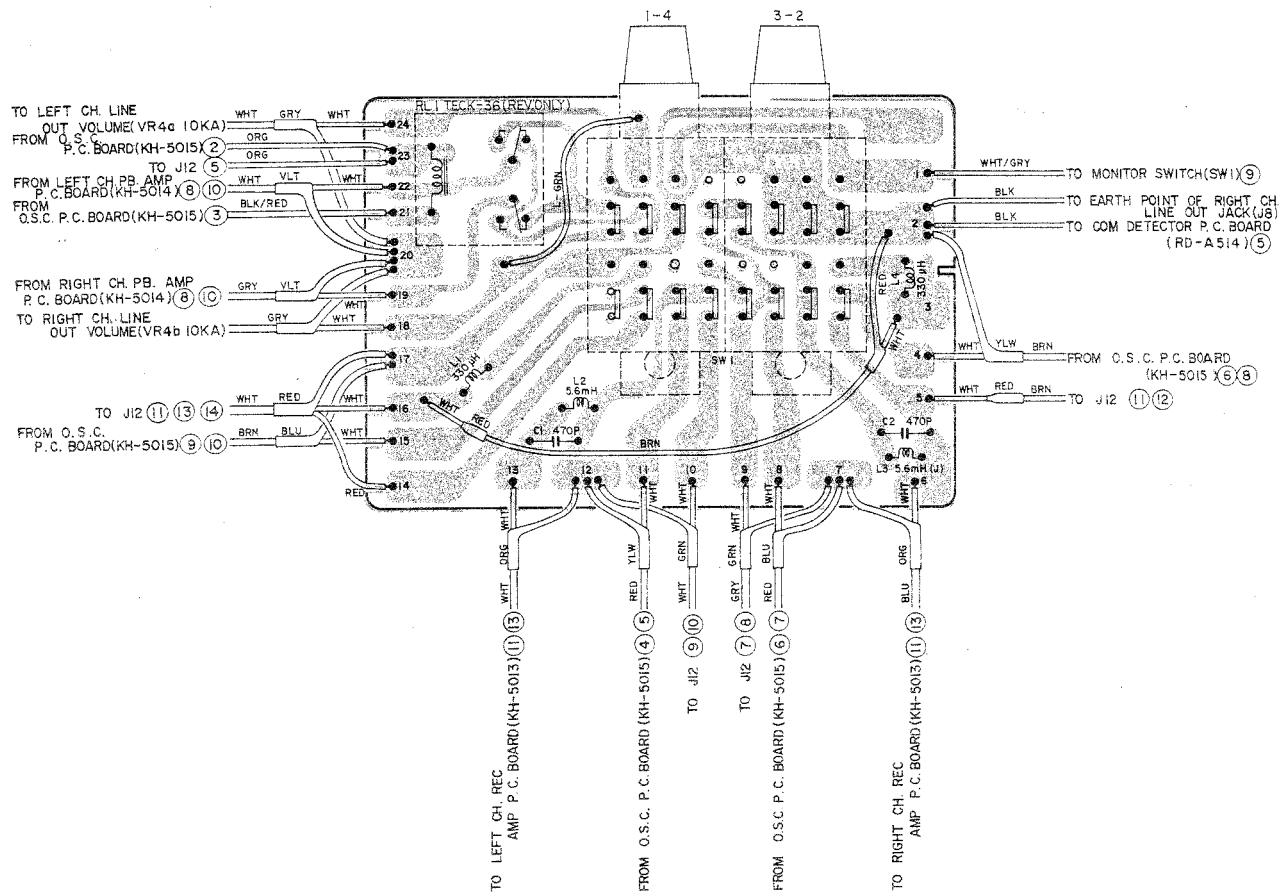
OSC. P.C.



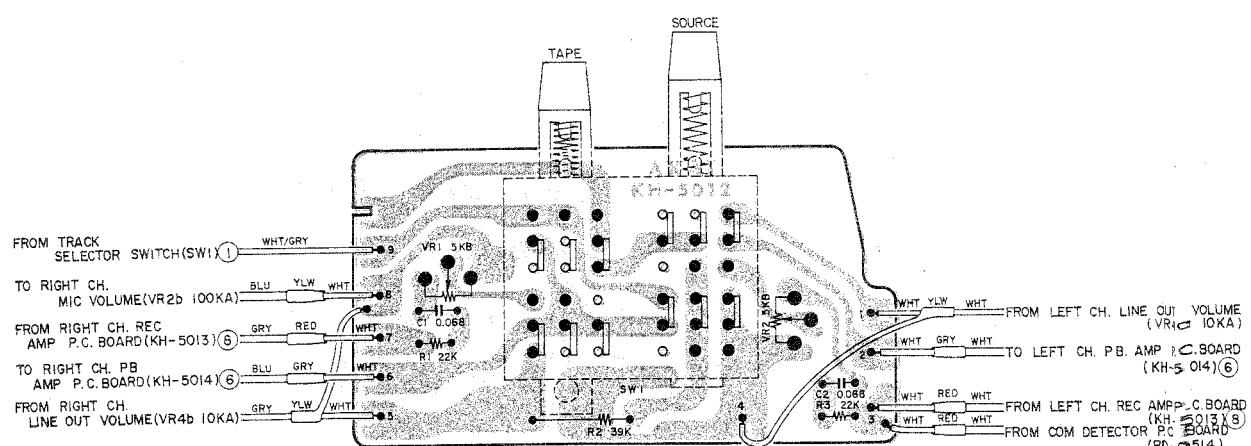
COM DETECTOR P.C. BOARD (RD-A514)



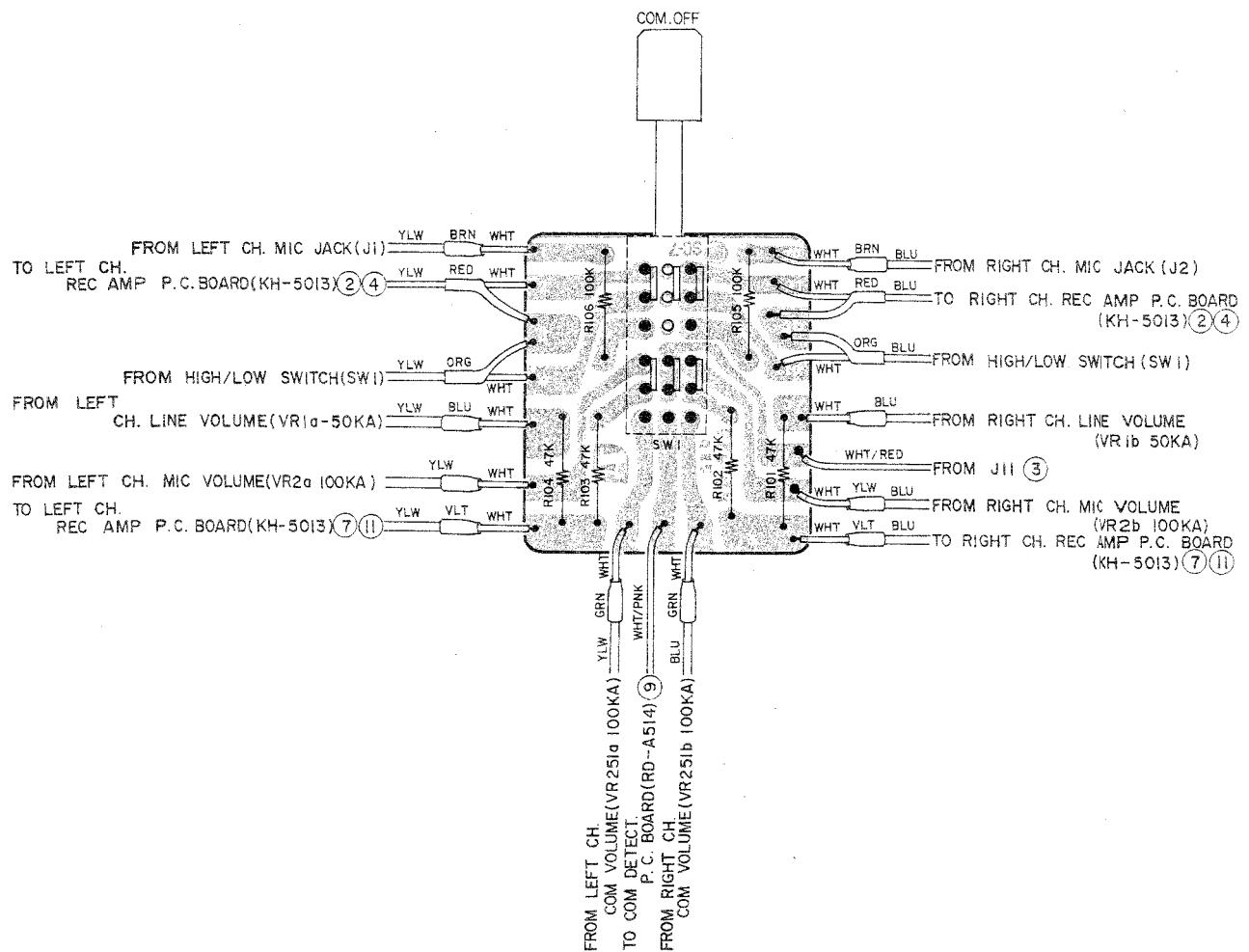
TRACK SELECTOR P.C. BOARD (KH-5011)



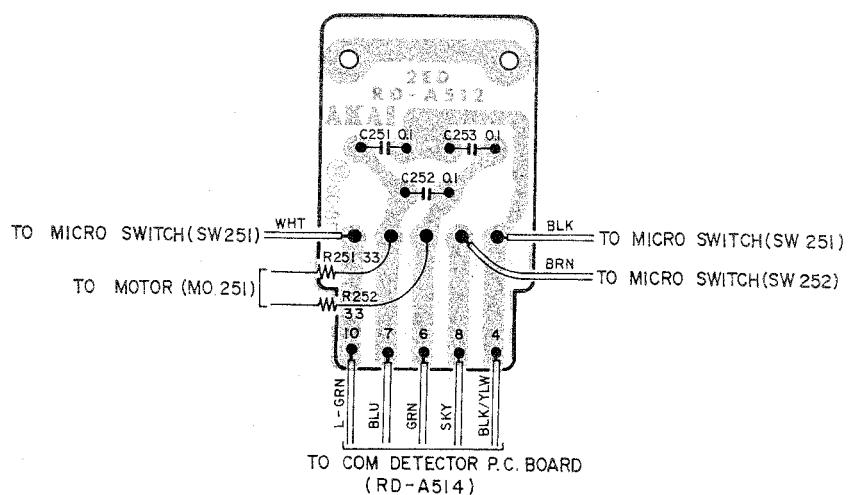
MONITOR SWITCH P.C. BOARD (KH-5012)



COM SWITCH P.C. BOARD (RD-525 2ED)



TERMINAL P.C. BOARD (RD-A512 2ED)



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

The reference number corresponds with illustration or photo number of that particular parts list.

This number corresponds with the Figure Number.
This number corresponds with the individual parts index number in that figure.

A small "x" indicates the inability to show that particular part in the Photo or Illustration.

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 List 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 LIST TABLE

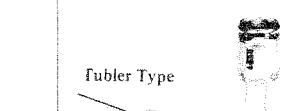
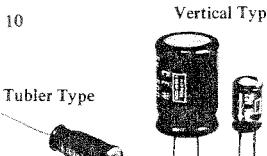
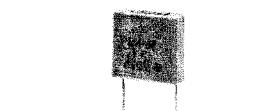
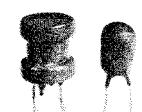
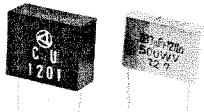
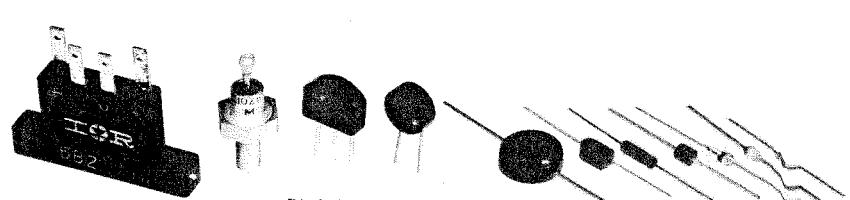
ELECTRICAL PARTS LIST TABLE Because the indication of resistors and capacitors in the P.C. Board photos are being eliminated, please confirm parts name and shape by comparing them with the parts shown in this table.			
1	2	3	
			
Solid Resistor	Stopper Type Carbon Resistor	Insulator Type Carbon Resistor	Metal Oxide Film Resistor
4	5	6	7
			
Cement Resistor	Wire-Wound Resistor	Thermistor	Enamel Resistor
1	2	3	4
			
MP Capacitor (Tubler Type)	Plastic Capacitor	Mylar Capacitor	VFM (Hi-Q) Capacitor
5	6	7	8
			
Mylar Capacitor	Tantalum Capacitor	Oil Capacitor (Tubler Type)	Vertical Type Styrol Capacitor
9	10	11	12
			
Electrolytic Capacitor (Tubler Type)	Vertical Type Electrolytic Capacitor	Ceramic Capacitor	Metallized Mylar (Paper) Capacitor
13	VR		
			
Trimer Condenser	Semi-Fixed Volume		
L	TR		
			
Ferri Inductor	Transistor		
CR	D		
		Diode (Silicon, Zener, Germanium)	
Spark Quencher		Diode (Silicon, Zener, Germanium)	

FIG. 1 (A) ILLUSTRATION OF KH HEAD BLOCK

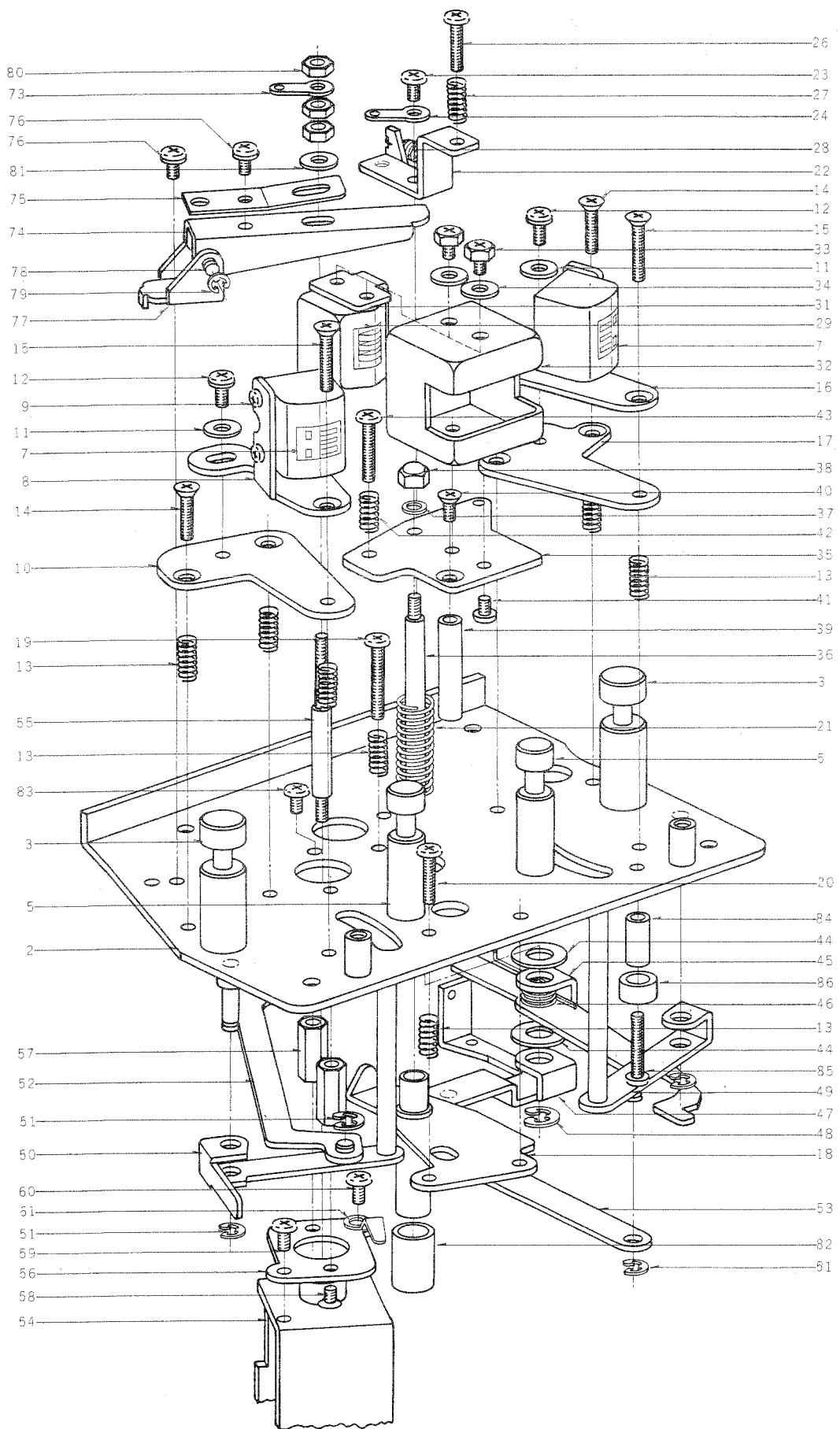
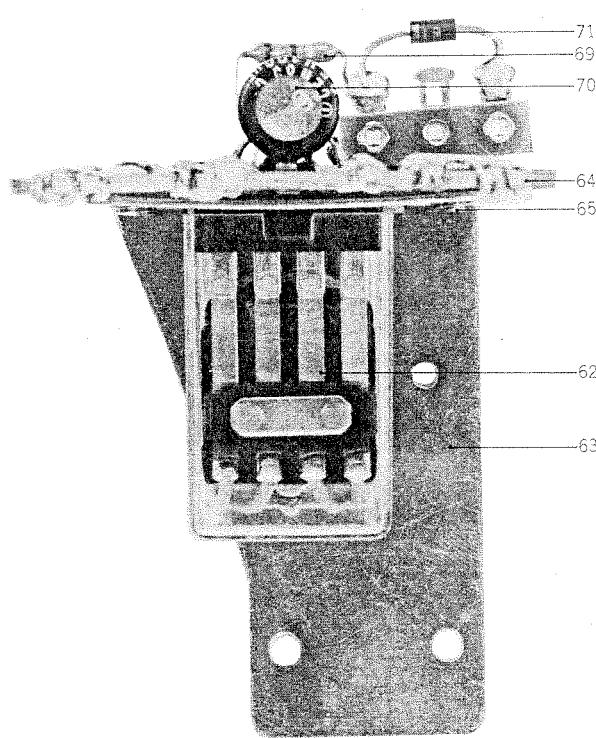


FIG. 1 (B) PHOTO OF KH HEAD BLOCK



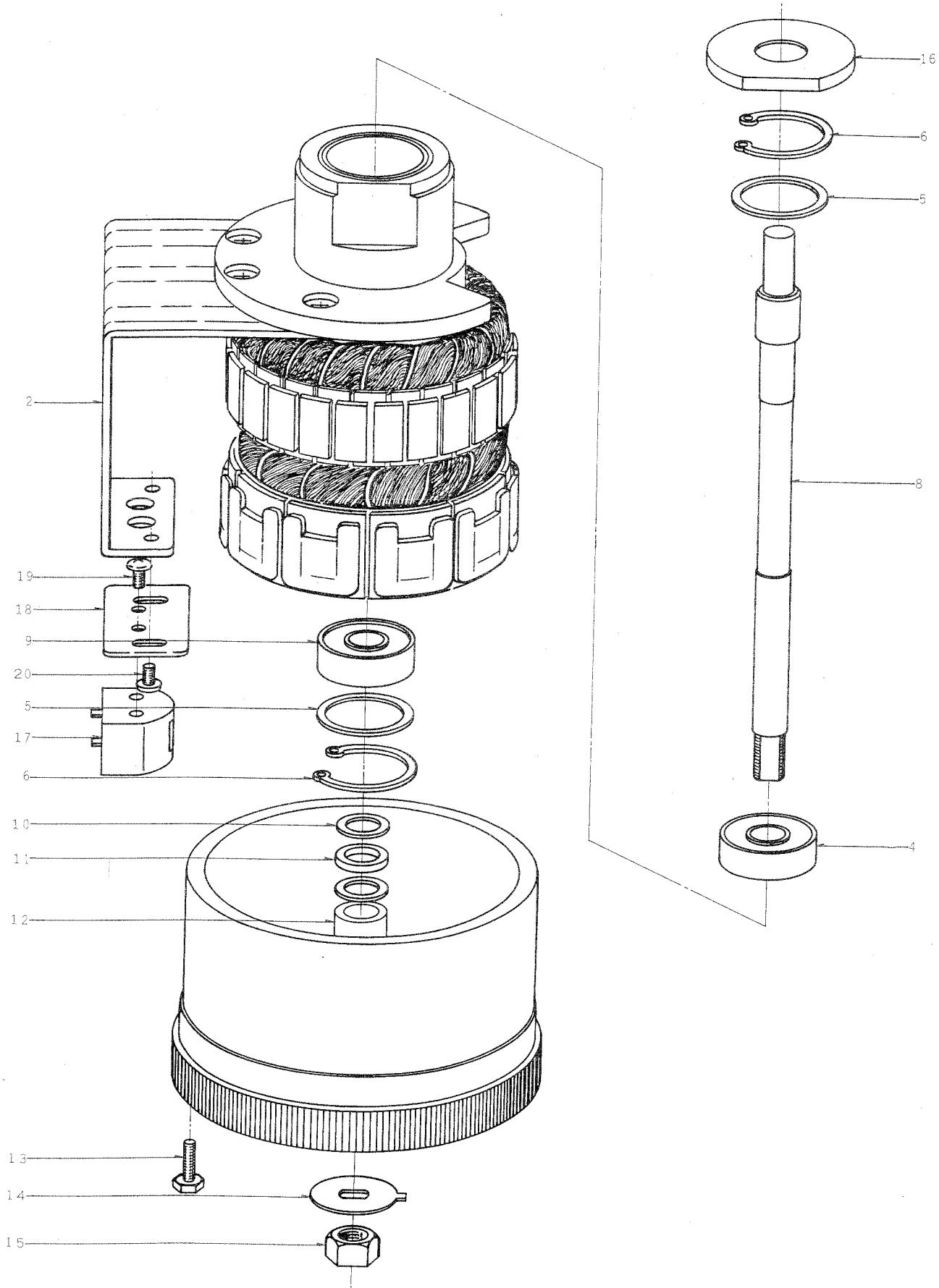
KH HEAD BLOCK

Ref. No.	Parts No.	Description	Schematic No.	Q'ty
1-1x	BH482310	KH Head Block Comp.	KH	1
1-2	HZ473084	Head Chassis, w/pin	KH-0001	1
1-3	HZ473332	Tape Guide B	KH-0027	2
1-4x	ZW434250	Screw, pan head 4x8, w/washer		2
1-5	HZ482714	Tape Guide C	KH-0052	2
1-6x	ZW414033	Screw, countersunk head 3x8		2
1-7	HR482321	REC./ERASE HEAD RE4-1		2
1-8	HZ473152	Combo Head Angle B	KH-0008	1
1-9	ZW477876	Screw, pan head 2x3		6
1-10	HZ473343	Combo Head Base B	KH-0033	1
1-11	ZW413256	Washer (SPC) D3.4x7.8x0.5t		2
1-12	ZW413728	Screw, binding head 3x6, w/washer		2
1-13	ZG303300	Angle Adjust Spring B	RD-55	9
1-14	ZW419793	Screw, countersunk head 3x12		4
1-15	ZW482736	Screw, countersunk head 3x15		2
1-16	HZ473141	Combo Head Angle A	KH-0007	1
1-17	HZ473163	Combo Head Base A	KH-0009	1
1-18	HZ473185	PH Head Chassis B, w/metal	KH-0011	1
1-19	ZW439514	Screw, binding head 3x18		1
1-20	ZW413785	Screw, binding head 3x12		2
1-21	ZG473218	Reverse Spring	KH-0014	1
1-22	HZ473174	Head Height Adjust Table	KH-0010	1
1-23	ZW413155	Screw, binding head 3x6		1
1-24	ZW273778	M3 Earth Lug		2
1-25x	ZW273802	M3 Toothed Lock Washer		1
1-26	ZW413785	Screw, binding head 3x12		1
1-27	ZG303300	Angle Adjust Spring B	RD-55	1
1-28	ZG810055	PH Hold-down Pull Spring	RD-52	1
1-29	HP384524	P.B. HEAD P4-200		1
1-30x	EA463206	P.C. Board, Terminal A	RD-A36	2
1-31	HZ473130	PH Head Angle	KH-0006	1
1-32	HZ382667	Triple-shield	RD-A3	1
1-33	ZW375963	Hexagon Bolt 3x4		2
1-34	ZW413256	Washer (SPC) D3.4x7.8x0.5t		2

Ref. No.	Parts No.	Description	Schematic No.	Q'ty
1-35	HZ473128	PH Head Chassis A	KH-0005	1
1-36	MH473207	UD Shaft	KH-0013	1
1-37	ZW259648	Washer (PBP)D3x5x0.1t		1
1-38	ZW482758	M3 Cap Nut		1
1-39	HZ809976	PH Hold-down Guide	RD-14	1
1-40	ZW432685	Screw, countersunk head 3x6 D=5		1
1-41	ZW413223	Screw, binding head 3x5, w/washer		2
1-42	ZG303300	Angle Adjust Spring B	RD-55	1
1-43	ZW417148	Screw, binding head 3x15		1
1-44	ZW260188	Washer (Nylon)D6.2x13x0.5t		2
1-45	HZ473231	Stopper	KH-0017	1
1-46	ZG473321	Stopper Spring	KH-0026	1
1-47	HL473242	Shifter Lever 1, w/pin	KH-0018	1
1-48	ZW270134	'E' Ring 5M	6-1-9	1
1-49	HL473253	Shifter Lever 2, w/pin	KH-0019	1
1-50	HL473264	Shifter Lever 3, w/pin	KH-0020	1
1-51	ZW270101	'E' Ring 3M	6-1-9	6
1-52	HZ473297	Shifter Joint A	KH-0023	1
1-53	HZ473308	Shifter Joint B	KH-0024	1
1-54	EP804813	Plunger Solenoid M-10B-34V	44-1-16	1
1-55	HZ473365	Plunger Joint	KH-0031	1
1-56	HZ473354	Plunger Base	KH-0015	1
1-57	HZ321344	Plunger Retaining Prop	RD-7	2
1-58	ZW432685	Screw, countersunk head 3x6 D=5		2
1-59	ZW413728	Screw, binding head 3x6, w/washer		1
1-60	ZW413155	Screw, binding head 3x6		1
1-61	HZ321366	Retaining Plate	3A-72	1
1-62	EP344136	Relay MY4-0-US-AD4-24V	47-1-8	1
1-63	HZ473220	Relay Mt. Parts	KH-0016	1
1-64	EA473376	Head Relay P.C. Board	KH-0029	1
1-65	ZW461935	Screw, round head 2.6x4		4
1-66x	ZW317801	M2.6 Toothed Lock Washer		1
1-67x	EA222096	Connector P.C. Board	RD-140	1
1-68x	EZ328320	Nylon Clip HP-5N		1
1-69	ER361563	Carbon/R. RD1/4 180(J) (Stop. type)	35-10-1	1
1-70	EC220151	Elect./C. 100 μ F 25WV (Vert. type)	24-12-81	1
1-71	ED224526	Silicon Diode 10D1	45-2-11	1
1-72x	HZ488092	P.C. Board Shield (for connector)	KH-0055	2
1-73	ZW273778	M3 Earth Lug		1
1-74	HL809998	PH Hold-down Lever	RD-24	1
1-75	ZG246857	Pull Lever Spring	RD-25	1
1-76	ZW413223	Screw, binding head 3x5, w/washer		2
1-77	HL473387	PH Hold-down Lever Support	KH-0032	1
1-78	ZW257477	Connecting Pin	RD-211	1
1-79	ZW270088	'E' Ring 1.9M	6-1-9	1
1-80	ZW273756	M3 Nut		5
1-81	ZW413256	Washer (SPC)D3.4x7.8x0.5t		1
1-82	HZ321434	Dust-proof Cap B	RD-54	1
1-83	ZW417025	Screw, binding head 3x8, w/washer		2
1-84	HZ434272	Shifter Stopper Collar	KD-A0010	1
1-85	ZW417148	Screw, binding head 3x15		1
1-86	MZ428343	KD Stopper Rubber	KD-1088	1

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

FIG. 2 ILLUSTRATION OF MAIN MOTOR BLOCK (SCM-24)

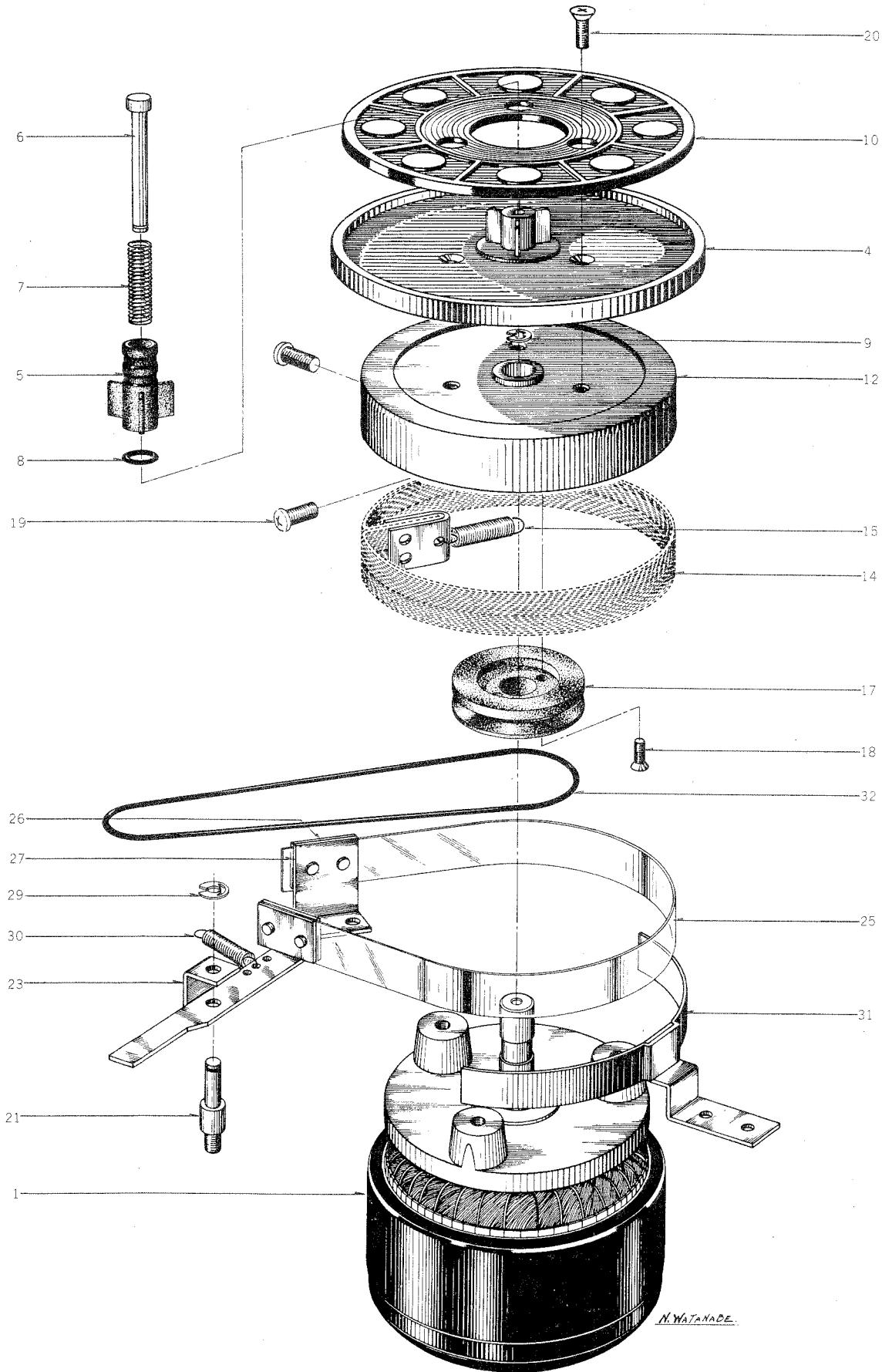


MAIN MOTOR BLOCK (SCM-24)

Ref. No.	Parts No.	Description	Schematic No.	Q'ty
2-1x	BM482286	Main Motor Block (SCM-24)	Comp.	1
2-2	MZ405437	Detector Head Mt. Base	KD-7029	1
2-3x	ZW419747	Screw, countersunk head 4x6		4
2-4	MV408510	Bearing 608VVC2E-AV2-L	100707	1
2-5	ZW398125	Adjust Washer A	KD-7019	2
2-6	ZW206021	'C' Ring (hollow) D22	6-1-2	2
2-7x	ZW391476	Set Screw, hexagon socket 4x4(cup)		1
2-8	MS473657	Motor Shaft	KH-7001	1
2-9	MV248130	Bearing 608VVC2E-B32	100707	1
2-10	ZW321592	Washer (SUS)D8.1x13x0.3t		2
2-11	ZW356883	Washer (Hycar)D8.3x11.8x0.5t		3
2-12	ZW424203	Spacer	KD-7057	1
2-13	ZW403525	Hexagon Bolt 3x10		4
2-14	ZW398158	Servo Motor Anti Loosening Washer	KD-7022	1
2-15	ZW403536	M7 Nut P=0.5		1
2-16	MZ398182	Cap	KD-7026	1
2-17	HK398452	DETECTOR HEAD	KH,KD,KF	1
2-18	MZ400421	Detector Head Plate	KD-3008	1
2-19	ZW201475	Screw, pan head 2x3		2
2-20	ZW413155	Screw, binding head 3x6		2

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

FIG. 3 ILLUSTRATION OF REEL MOTOR/REEL TABLE BLOCK



REEL MOTOR/REEL TABLE BLOCK

Ref.	Parts No.	Description	Schematic No.	Q'ty
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REEL MOTOR BLOCK

3-1	BM314741	Reel Motor Block (24XO-2)	Comp.	KD, MR, MS, MC 2
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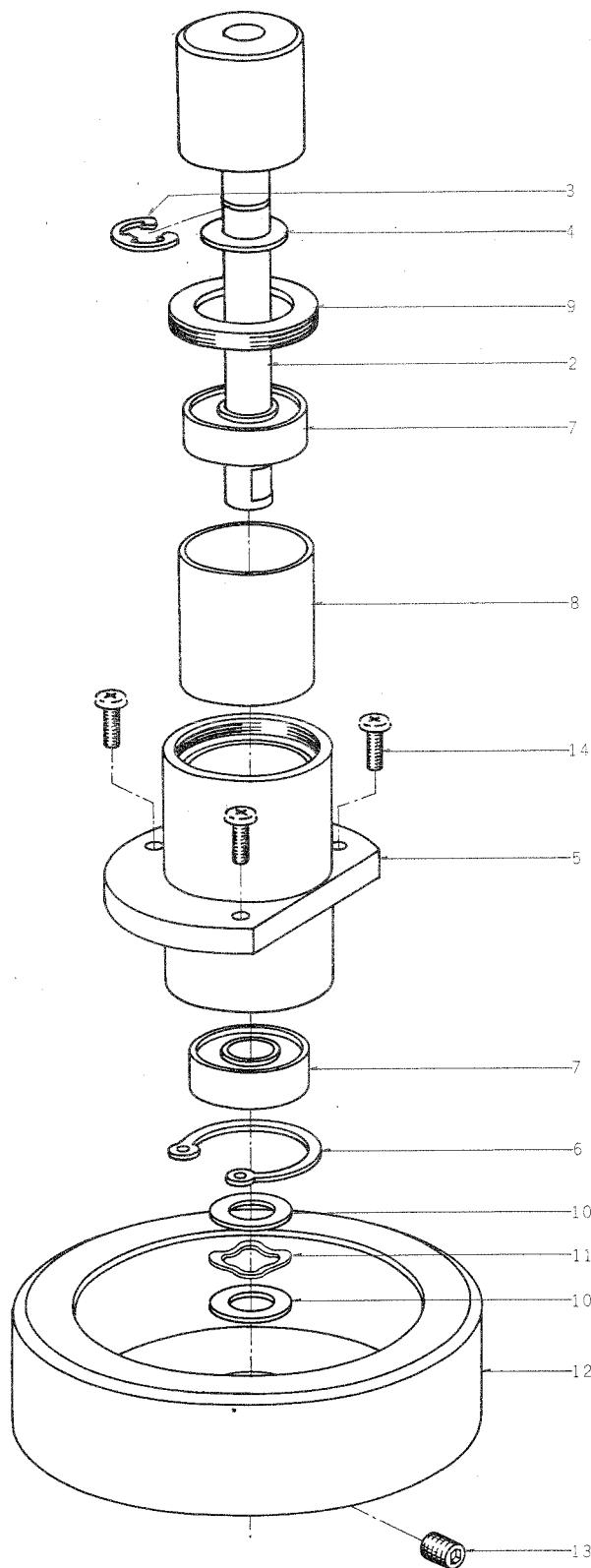
REEL TABLE BLOCK

3-2x	BR482400	Supply Reel Table Comp.	KH, MR, MC 1
3-3x	BR482411	Take-up Reel Table Comp.	KH, MR, MC 1
3-4	MT488147	RD Reel Table Disk-B	RD-272 2
3-5	MT255420	Reel Retainer	3R-102 2
3-6	MS342000	Reel Shaft	3R-108 2
3-7	ZG255633	Reel Spring	3R-109 2
3-8	MT297663	3R 'O' Ring 2.9x1.65M	3R-139 2
3-9	ZW270088	'E' Ring 1.9M	6-1-9 2
3-10	MT473422	Reel Table Rubber (KH)	KH-2042 2
3-11x	MT473444	Brake Drum (left) (Supply)	KH-2031 1
3-12	MT473433	Brake Drum (right) (Take-up)	KH-2031 1
3-13x	ZW273778	M3 Earth Lug	2
3-14	MT436860	Brake Cloth Comp.	MR-269 2
3-15	ZG317496	Felt Tension Spring	MR-260 2
3-16x	ZW425981	Screw, binding head 3x3	2
3-17	MR317507	Counter Pulley (Take-up)	MR-217 1
3-18	ZW365973	Screw, countersunk head 2.3x12	2
3-19	ZW424056	Screw, pan head 4x10	4
3-20	ZW403222	Screw, countersunk head 3x10	6

3-21	MZ317373	Brake Lever Prop	MR-102 2
3-22x	ZW413188	M4 Nut	2
3-23	ML314976	Brake Lever A (Take-up)	MR-210 1
3-24x	ML396810	Brake Lever B (Supply)	KD-1038 1
3-25	MB314987	Brake Band	MR-213 2
3-26	MZ314998	Brake Band Retaining Plate	MR-212 4
3-27	MZ315000	Brake Band Support	MR-214 2
3-28x	ZW323728	Screw, binding head 2x5	8
3-29	ZW290283	'U' Ring 2.85M	6-1-1 2
3-30	ZG315011	Brake Lever Spring	MR-116 2
3-31	MZ317406	Brake Band Guide, w/base	MR-120 2
3-32	MB303535	Counter Belt D91x1.6	3A-617 1

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

FIG. 4 ILLUSTRATION OF IMPEDANCE ROLLER BLOCK

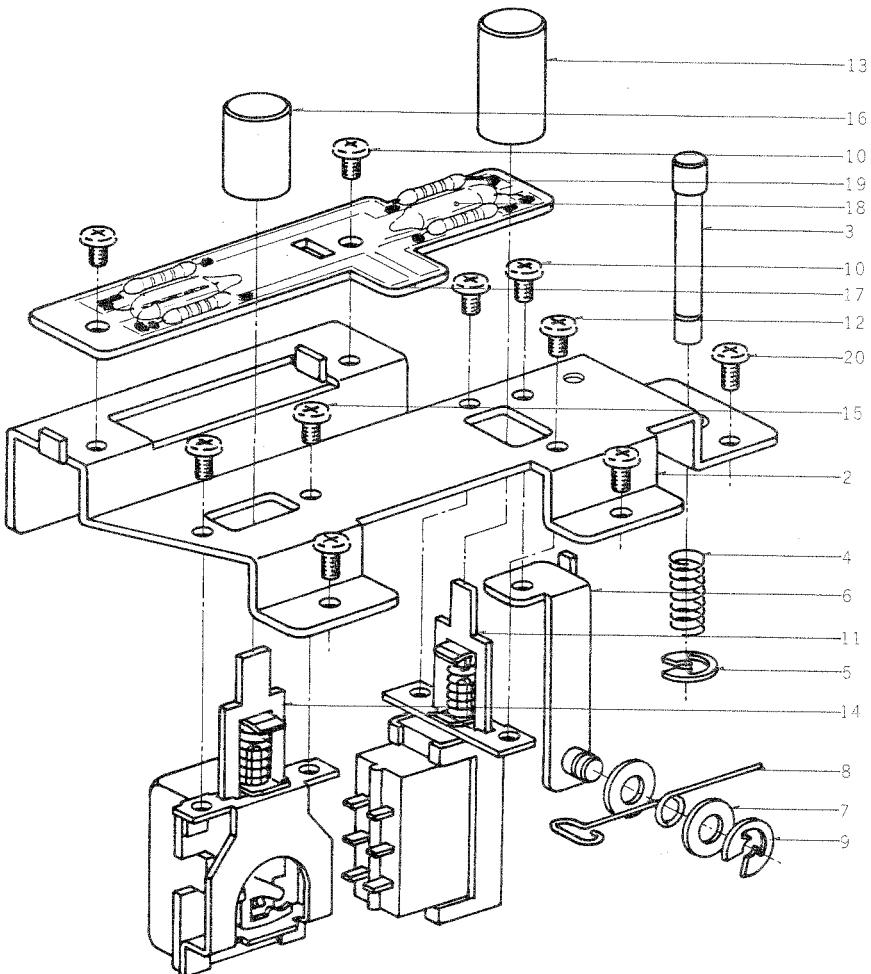


IMPEDANCE ROLLER BLOCK

Ref. No.	Parts No.	Description	Schematic N.	Q'ty
4-1x	BL482422	Impedance Roller Block Comp.	KH	1
4-2	MS473916	Impedance Roller Arm Shaft, w/roller	KH-Ø 36	1
4-3	ZW334653	'E' Ring 7M	6-1-	1
4-4	ZW321592	Washer (SUS)D8.1x13x0.3t		1
4-5	BC473927	Impedance Case	KH-Ø 32	1
4-6	ZW206021	'C' Ring (hollow) D22	6-1-	1
4-7	MV248141	Bearing 608VVC2E-B32-L		2
4-8	MZ473938	Bearing Collar	KH-Ø 33	1
4-9	ZW292667	Z Bearing Screw	3A-15	1
4-10	ZW260256	Washer (PBP)D8.1x13x0.1t		2
4-11	ZG300431	8M/M Oil-pressure Spring WW-8	6-2-	1
4-12	MZ292678	Z Wheel	RD-15	1
4-13	ZW487912	Set Screw, hexagon socket 5x6(cup)		2
4-14	ZW413201	Screw, pan head 4x8		3

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

FIG. 5 ILLUSTRATION OF POWER & PAUSE SWITCH BLOCK



POWER & PAUSE SWITCH BLOCK

Ref. No.	Parts No.	Description	Schematic No.	Q'ty	Ref. No.	Parts No.	Description	Schematic No.	Q'ty
5-1x	BS482308	Power & Pause Switch Comp.	KH	1	5-12	ZW444273	Iso Screw, binding head 3x4		2
5-2	MZ474006	Power & Pause Switch Table, w/metal	KH-2050	1	5-13	SB474118	Push Button 3	KH-1023	1
5-3	MS473962	Pause Lock Shaft	KH-2005	1	5-14	ES468426	Push Switch UEH-12BFN	25-3-58	1
5-4	ZG473973	Pause Spring	KH-2006	1	5-15	ZW371856	Iso Screw, binding head 3x5		2
5-5	ZW482635	'U' Ring 2.85M	6-1-1	1	5-16	SK482646	Knob B-1	MC-5011	1
5-6	MZ473995	Spring Mt. Plate, w/pin	KH-2049	1	5-17	EA487991	Neon Lamp P.C. Board	KH-1031	1
5-7	ZW420682	Washer (Nylon)D4.2x9x0.5t		2	5-18	EL236125	Neon Lamp NE-68	28-3-3	2
5-8	ZG472770	Pause Spring B	KH-2009	1	5-19	ER345756	Carbon/R. RD1/4 68k(J)		
5-9	ZW290283	'U' Ring 2.85M	6-1-1	1			(Insu. type)	35-9-5	4
5-10	ZW417137	Screw, binding head 3x4		3	5-20	ZW323728	Screw, binding head 3x5		3
5-11	ES482938	Push Switch JH-3	25-5-61	1					

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

FIG. 6 (A) ILLUSTRATION OF OPERATION BLOCK

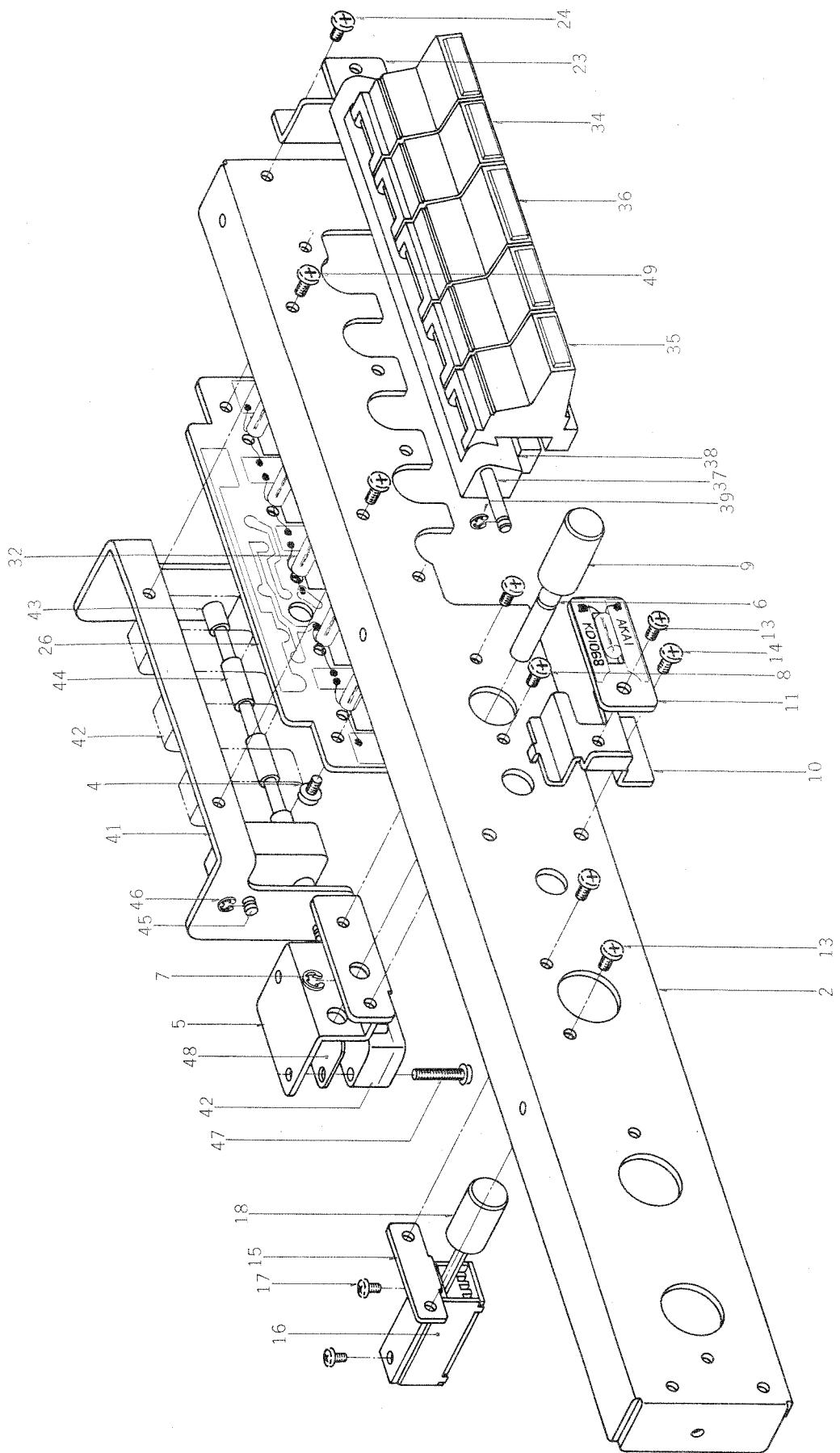
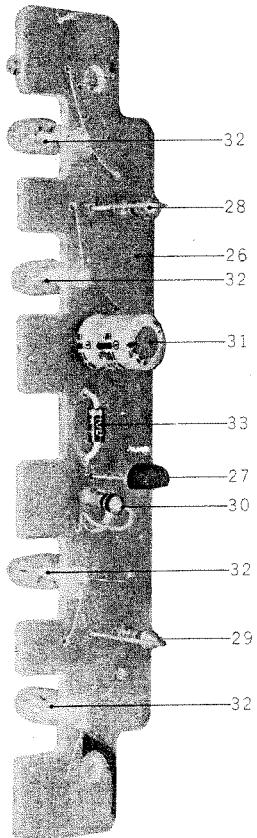


FIG. 6 (B) PHOTO OF OPERATION BLOCK



OPERATION BLOCK

Ref. No.	Parts No.	Description	Schematic No.	Q'ty
6-1x	BZ482376	Operation Block Comp.	KH	1
6-2	BZ472656	Operation Frame	KH-2016	1
6-3x	BA482398	Operation Lamp P.C. Board Comp. (KH-2019)		1
6-4	ZW323728	Screw, binding head 3x5		2
6-5	EZ397956	Rec. Button Bracket	KD-5015	1
6-6	MZ472667	Rec. Push Rod	KH-2028	1
6-7	ZW270101	'E' Ring 3M	6-1-9	1
6-8	ZW323728	Screw, binding head 3x5		2
6-9	SK472678	Rec. Knob	KH-2027	1
6-10	MZ472680	Rec. Lamp Mt. Plate	KH-2040	1
6-11	EA396898	Neon Lamp P.C. Board	KD-1068	1
6-12x	EL390576	Pilot Lamp RM6-24V-50MA	28-2-6	1
6-13	ZW323728	Screw, binding head 3x5		3
6-14	ZW472274	Tapping Screw #2 3x6		1
6-15	MZ472691	SRT Switch Mt. Part	KH-2024	1
6-16	ES482861	Push Switch UEG-63A	25-5-63	1
6-17	ZW442585	Screw, binding head 2.6x4		2
6-18	SK482850	Knob B-1	KF-2019	1
6-19x	BA482387	Tape Speed Switch P.C. Board Comp. (KH-2011)		1
6-20x	ZW371856	Iso Screw, binding head 3x5		2
6-21x	SB474052	Push Button 1	KH-1022	2
6-22x	ZW259413	Washer (ALP) D2.7x4.9x1t	BT-112	1
6-23	MZ472792	Amp. Panel Retaining Metal	KH-2029	2
6-24	ZW472274	Tapping Screw #2 3x6		4
6-25x	BA482398	Operation Lamp P.C. Board Comp. (KH-2019)		1
6-26	EA472724	Operation Lamp P.C. Board (KH-2019)	KH-2019	1
6-27	ET398711	Transistor 2SC945(Q)(R)	45-1-85	1
6-28	ER430053	Carbon/R. RD1/4 22(J) (Stop. type)	35-10-1	1
6-29	ER212883	Carbon/R. RD1/4 4.7k(J) (Stop. type)	35-10-1	1
6-30	ER211465	Carbon/R. RD1/4 1k(J)	35-10-1	1
6-31	EC220364	Elect./C. 100 μ F 6.3WV (Vert. type)	24-12-9	1
6-32	EL390576	Pilot Lamp RM6-24V-50MA	28-2-6	4
6-33	ED224526	Silicon Diode 10D1	45-2-11	1
6-34	SB867205	Operation Button A, w/bush A(blue)	KH-2022	2
6-35	SB867565	Operation Button A, w/bush B(orange)	KH-2022	2
6-36	SB472768	Operation Button B	KH-2021	1
6-37	MS438243	Button Shaft	KF-2009	1
6-38	MZ472781	Lamp Cover	KH-2018	1
6-39	ZW270088	'E' Ring 1.9M	6-1-9	2
6-40x	ZW323728	Screw, binding head 3x5		2
6-41	MZ474513	Operation Switch Base	KH-2017	1
6-42	ES250075	Micro Switch V-1A10 U/L	25-1-8	7
6-43	MZ397337	Switch Spacer A	KD-2005	2
6-44	MZ472836	Operation Button Collar	KH-2023	2
6-45	MS250165	Micro Switch Shaft B	R.D-122B	2
6-46	ZW270088	'E' Ring 1.9M	6-1-9	4
6-47	ZW417148	Screw, binding head 3x15		2
6-48	ZG466154	Switch Spring	KD-A2-012	1
6-49	ZW323728	Screw, binding head 3x5		2

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

FIG. 7 (A) ILLUSTRATION OF POWER SUPPLY BLOCK

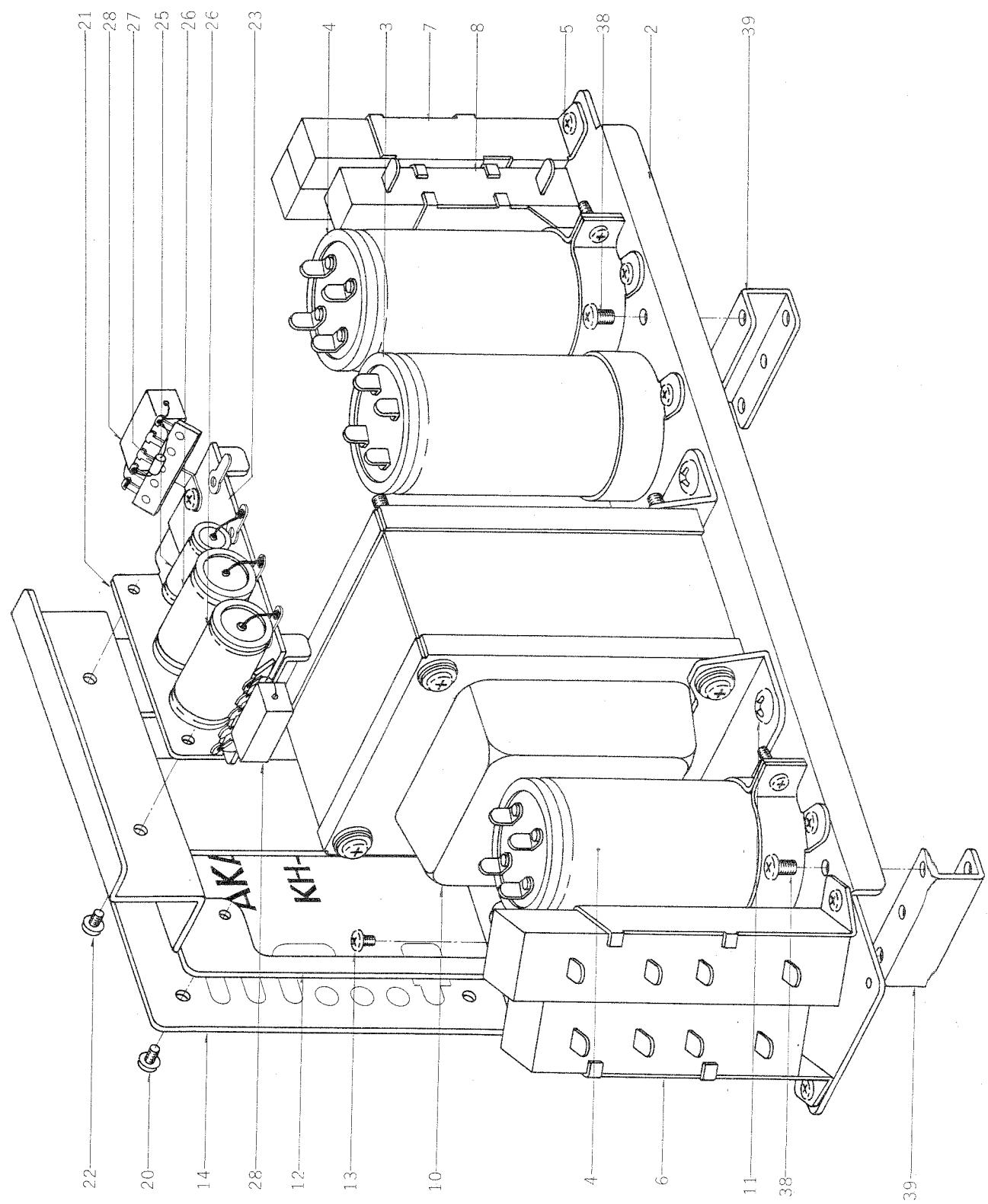
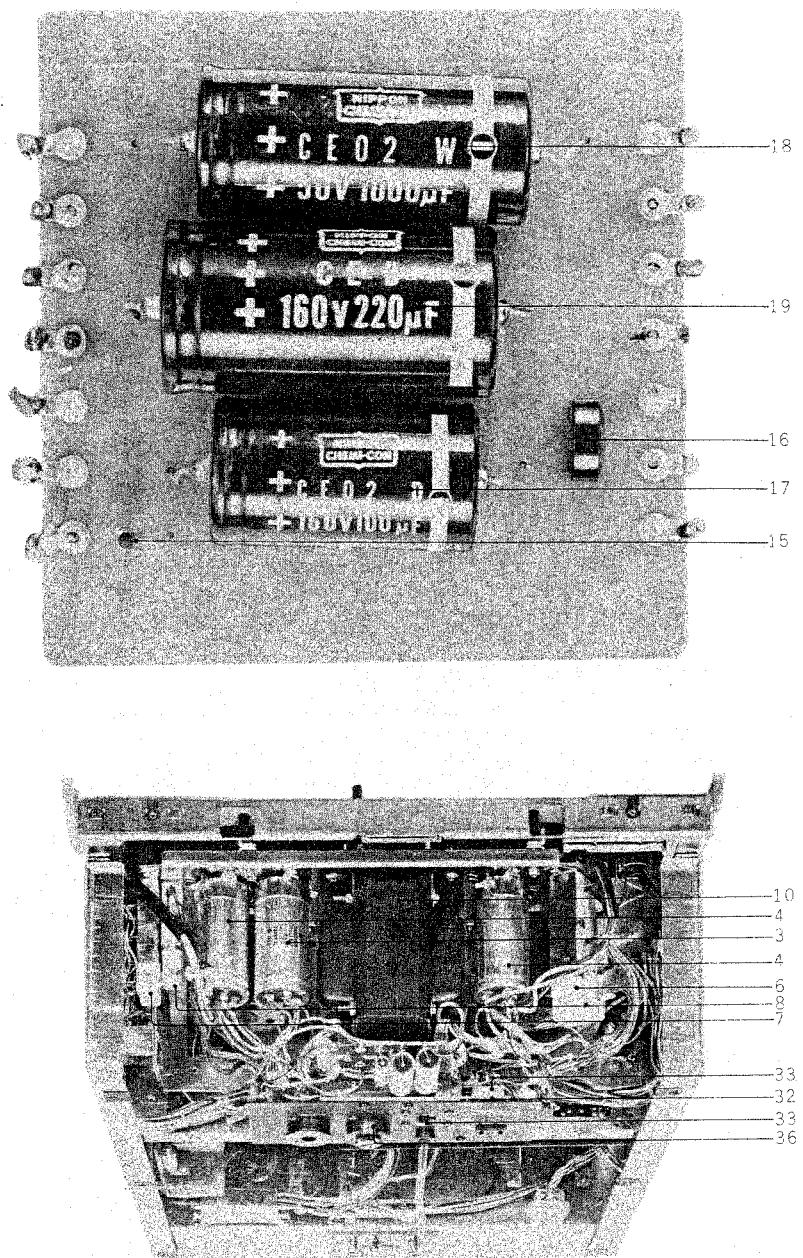


FIG. 7 (B,C) PHOTO OF POWER SUPPLY BLOCK

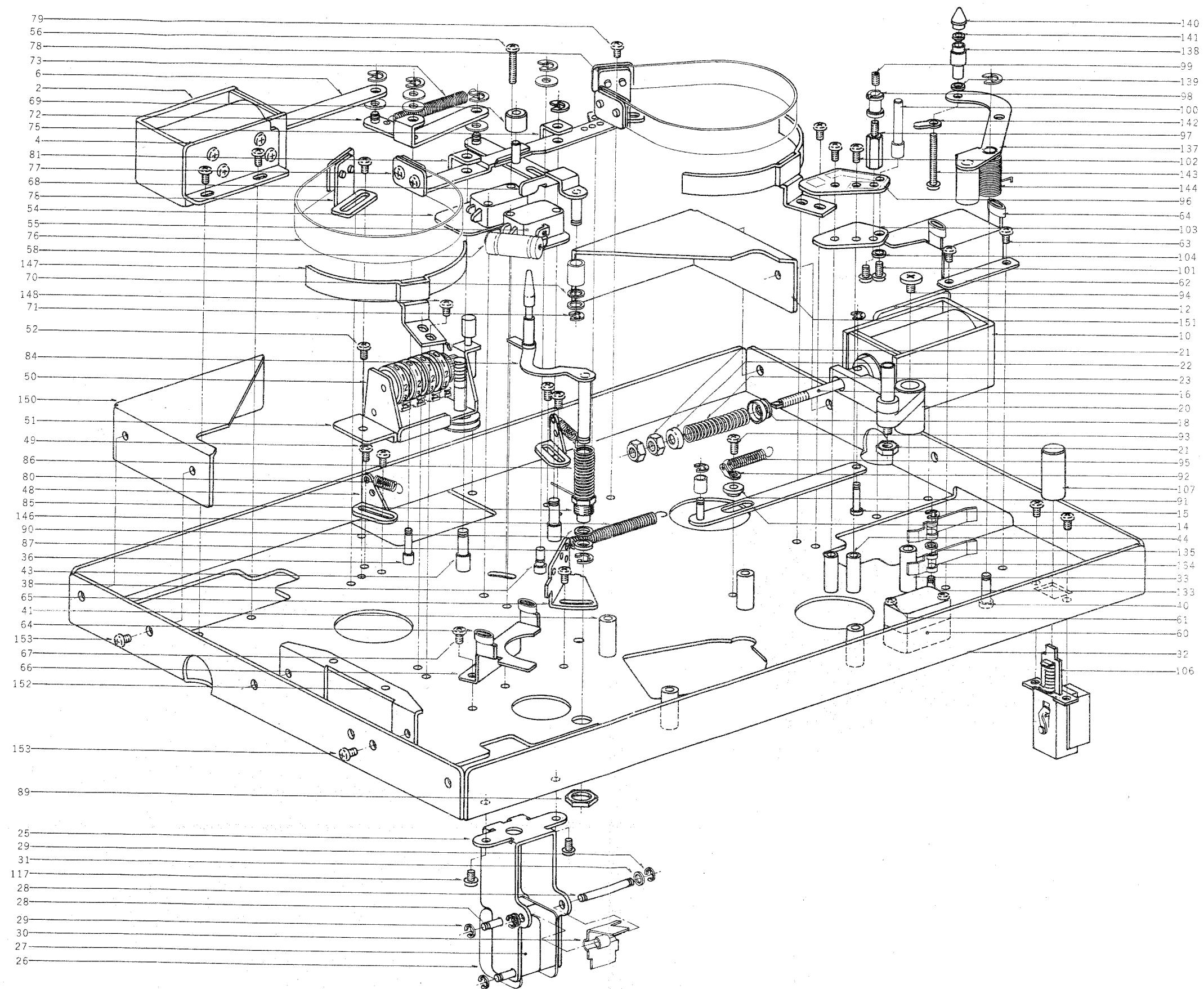


POWER SUPPLY BLOCK

Ref. No.	Parts No.	Description	Schematic No.	Q'ty
7-1x	BP482343	Power Supply Block Comp.	KH-KD,KF,KG	1
7-2	UM488924	Trans. Table	KH-2052	1
7-3	EC434081	MP/C. 3+0.5 μF 200WV (Lug type Uni/D.)	24-9-58	1
7-4	EC398632	MP/C. 3+1 μF 260WV (Lug type Uni/D.)	24-9-52	2
7-5	ZW472274	Tapping Screw #2 3x6		11
7-6	ER426690	Cement/R. H(40+30) H2B (350+150x200+500)	35-16-25	1
7-7	ER493097	Cement/R. H(20+20) H1B (60+35x1.5k+500)k	35-16-35	1
7-8	ER339805	Cement/R. H20B 450(K) (wire-wound type), w/belt	35-16-16	1
7-9x	ER472296	Cement/R. H20B 220(K)	35-16-16	1
7-10	BT472702	Power Trans. KHT-1	38-4-153	1
7-11	ZW468112	Tapping Screw #2 4x8(truss)		4
7-12	MZ465772	Trans. Table D	KD-A2008	1
7-13	ZW490228	Tapping Screw #2 3x8		2
7-14	BA482578	Capacitor P.C. Board (KH-2012) Comp.	KH-2051	1
7-15	ED224550	Silicon Diode 10D4	45-2-16	1
7-16	ED329130	Silicon Diode 10DC-1(black)	45-2-27	1
7-17	EC316091	Elect./C. 100 μF 160WV (Tub. type)	24-14-14	1
7-18	EC365692	Elect./C. 1000 μF 50WV (Tub. type)	24-13-15	1
7-19	EC346746	Elect./C. 220 μF 160WV (Tub. type)	24-14-8	1
7-20	ZW490228	Tapping Screw #2 3x8		4
7-21	EZ397282	Capacitor Retaining Base	KD-2027	1
7-22	ZW323728	Screw, binding head 3x5		4
7-23	EZ398946	Terminal Plate SP-0501 B type 4P	33-4-9	1
7-24x	ER430143	Carbon/R. RD1/4 120(J) (Insu. type)	35-9-5	1
7-25	EC273464	MP/C. 0.1 μF(M) 350WVDC (Tub. type)	24-9-4	1
7-26	EC341842	MP/C. 0.47 μF(M) 300WVAC (Tub. type)	24-9-35	2
7-27	EJ255115	Lug Plate VB2L2 33-4-3	2	2
7-28	ER466986	Cement/R. SSW 45(K) (Wire-wound type)	35-16-3	2
7-29x	ED224550	Silicon Diode 10D4	45-2-16	1
7-30x	EZ328320	Nylon Clip HP-5N		2
7-31x	ZW462194	Tapping Screw #2 3x8(pan), w/washer		2
7-32	EZ397304	Frequency Change Switch Plate A	KD-2043	1
7-33	ES375478	Slide Switch ESD-279DU	25-3-23	2
7-34x	ZW371856	Iso Screw, binding head 3x5		2
7-35x	ZW440291	Iso Screw, countersunk head 3x6		2
7-36	EJ233370	Power Plug Socket S-18010	40-2-3	1
7-37x	EF277413	Fuse ST-2 2A	39-1-26	1
7-38	ZW417150	Screw, pan head 4x6		4
7-39	MZ397170	Trans. Base C	KD-1065	2

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

FIG. 8 (A) (B) ILLUSTRATION OF MECHANISM ASSEMBLY BLOCK



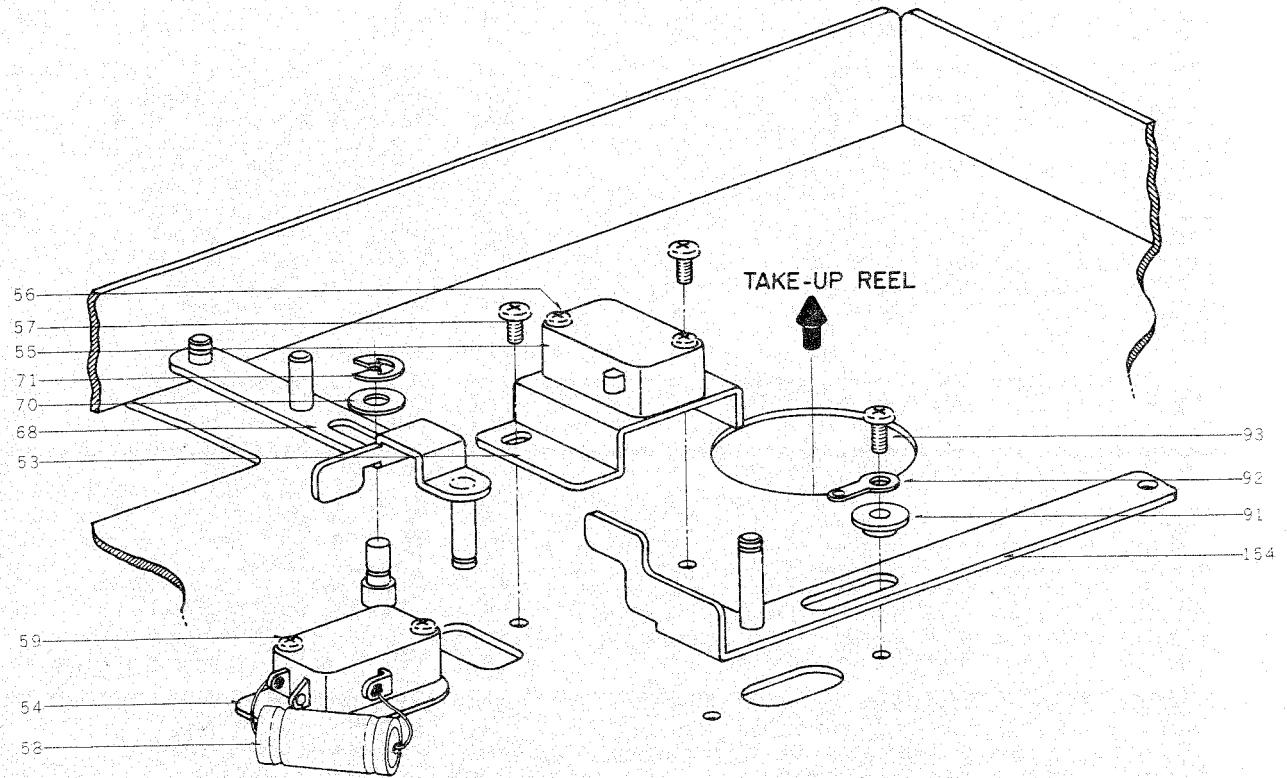
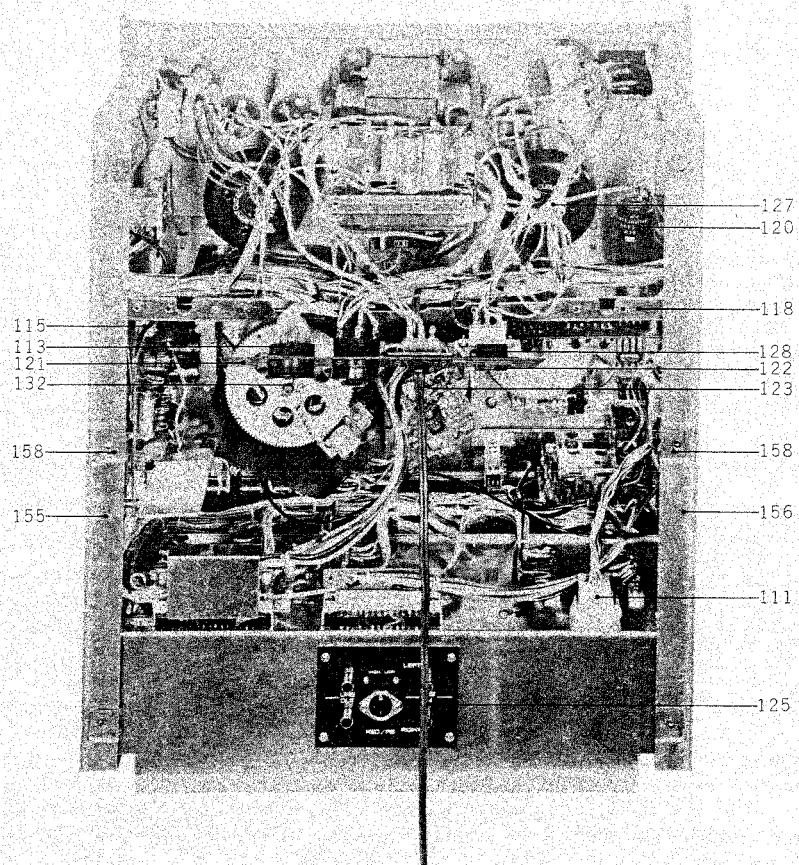


FIG. 8 (C) PHOTO OF MECHANISM ASSEMBLY BLOCK



MECHANISM ASSEMBLY BLOCK

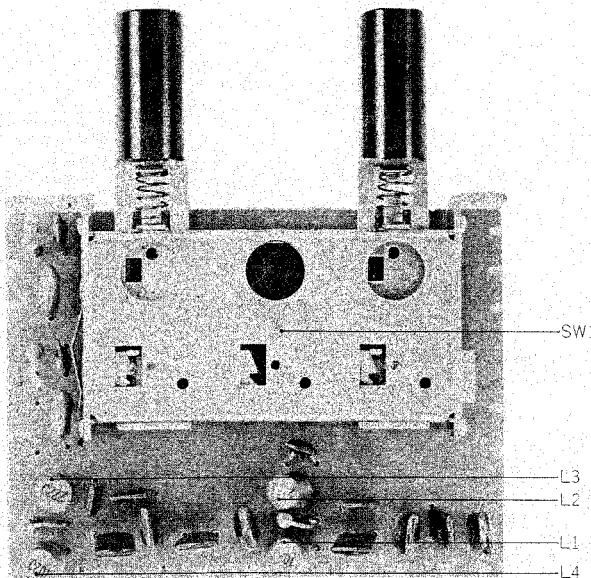
Ref. No.	Parts No.	Description	Schematic No.	Q'ty	Ref. No.	Parts No.	Description	Schematic No.	Q'ty
BRAKE PLUNGER BLOCK									
8-1x	BZ398338	Brake Plunger Block Comp.	KH,KD,KF	1	8-60	ES250064	Micro Switch V-1A44 U/L	25-1-7	2
8-2	EP398610	Plunger Solenoid			8-61	ZW414066	Screw, binding head 3x25		2
		SDC-10-M-C-100V	44-1-36	1	8-62	MZ472904	Shut-off Arm Stopper	KH-1006	1
8-3x	ER376424	Spark Quencher U/JL			8-63	ZW417137	Screw, binding head 3x4		4
		0.1μ+120 500WV	41-1-36	1	8-64	MZ499634	Stopper Rubber (KH)	KH-1037	4
8-4	MZ396911	Plunger Bracket	KD-1028	1	8-65	MZ434237	KD Spring Hanger	KD-A1007	1
8-5x	ZW201835	Screw, binding head 3x5		4	8-66	MZ486450	Roller Arm Stopper	KH-1033	1
8-6	MZ396977	Brake Plunger Joint	KD-1039	1	8-67	ZW323728	Screw, binding head 3x5		2
8-7x	ZW257477	Connecting Pin	RD-211	1	8-68	MZ396832	Brake Slide, w/pin	KD-1044	1
8-8x	ZW270088	'E' Ring 1.9M		6-1-9	8-69	MZ397181	Lever Cushion	KD-1069	1
				1	8-70	ZW482545	Washer (Polyslider) D4.1x10x0.13t		5
PINCH ROLLER PLUNGER BLOCK									
8-9x	BZ482297	Pinch Roller Plunger Block			8-71	ZW270101	'E' Ring 3M	6-1-9	1
		Comp. KH,KD,K'	1		8-72	ML396742	Brake Lever, w/pin	KD-D41	1
8-10	EP441990	Plunger 1660THT Solenoid	44-1-45	1	8-73	ZG465478	Brake Lever Spring	KD-1092	1
8-11x	ER376424	Spark Quencher U/L			8-74x	ZW290283	'U' Ring 2.85M	6-1	4
		0.1μ+120 500WV	41-1-36	1	8-75	ML314976	Brake Lever A (Take-up)	MR-210	1
8-12	MZ396911	Plunger Bracket	KD-1028	1	8-76	MB314987	Brake Band	MR-213	2
8-13x	ZW323728	Screw, binding head 3x5		3	8-77	MZ314998	Brake Band Retaining Plate	MR-212	4
8-14	MZ396966	Plunger Joint, w/pin	KD-1033	1	8-78	MZ315000	Brake Band Support	MR-214	2
8-15	ZW257477	Connecting Pin	RD-211	1	8-79	ZW323728	Screw, binding head 3x5		8
8-16	MZ396944	Pinch Roller Arm Joint	RD-1031	1	8-80	ZG315011	Brake Lever Spring	MR-16	2
8-17x	ZW270088	'E' Ring 1.9M		6-1-9	8-81	ML396810	Brake Lever B (Supply)	KD-D38	1
8-18	ZW345442	Washer (Nylon)D4.2x9x1t		1	8-82x	MZ467111	Servo Motor Shield	KD-A1010	2
8-19x	ZW270101	'E' Ring 3M		6-1-9	8-83x	EJ254970	Lug Plate KP1L1	33-33	1
8-20	MZ396933	Pinch Roller Arm, w/shaft	KD-1030	1	8-84	ML472950	Impedance Roller Arm, w/guide	KH-018	1
8-21	ZW273960	M4 Nut			8-85	MZ473005	Arm Shaft Metal	KH-015	1
8-22	MZ802980	Spring Holder	RD-276	2	8-86	ZG472994	Tension Spring	KH-017	1
8-23	ZG428927	Pinch Roller Spring B	KD-1032	1	8-87	ZW472983	Z Roller Washer	KH-043	1
					8-88x	ZW270101	'E' Ring 3M	6-1-9	1
					8-89	ZW273363	M9 Hexagon Nut	RD-54	1
SPEED CHANGE SWITCH BLOCK									
8-24x	BS482354	Speed Change Switch Block			8-91	ZW397157	Graduated Washer	KD-D36	1
		Comp. KH,KF	1		8-92	ZW273778	M3 Earth Lug		1
8-25	MZ473455	Speed Change Switch Stand	KH-2010	1	8-93	ZW413155	Screw, binding head 3x6		1
8-26	MZ402377	Micro Insulator D	KD-2050	2	8-94	ZW243516	Screw, Pinch Roller	KR-B30	1
8-27	ES250064	Micro Switch V-1A44 U/L	25-1-7	2	8-95	ZG208091	Impedance Arm Spring	RD-S9	1
8-28	MS438254	Micro Switch Shaft	KF-2023	3	8-96	EA473016	Sensing P.C. Board	KH-013	1
8-29	ZW270088	'E' Ring 1.9M		6-1-9	8-97	MH473027	Tape Guide Prop	KH-028	1
8-30	ML397383	Speed Change Switch Lever	KD-2016	1	8-98	MZ473038	Sensing Guide B	KH-014	1
8-31	ZW425733	Washer (ALP)D3.1x8x1t	KD-2016	2	8-99	ZW433001	Set Screw, hexagon socket 3x5(cup)		1
					8-100	MZ473040	Sensing Pole	KH-015	1
					8-101	ZW413741	Screw, binding head 3x8		1
					8-102	ZW413155	Screw, binding head 3x6		2
8-32	MZ472814	Mech. Frame	KD-1001	1	8-103	MZ486448	Print Reinforcement Board	KH-W32	1
8-33	MS397001	Pinch Roller Arm Shaft	KD-1002	1	8-104	MZ397214	Insulator Liner A	KD-E31	1
8-34x	ZW274026	M5 Spring Washer		1	8-105x	MB303535	Counter Belt D91x1.6	3A-67	1
8-35x	ZW413278	M5 Nut		1	8-106	ES482938	Push Switch JH-3	25-54	1
8-36	MS397012	Brake Lever Shaft	KD-1003	1	8-107	SB474041	Push Button 2	KH-W23	1
8-37x	ZW413188	M4 Nut		4	8-108x	ZW444273	Iso Screw, binding head 3x4		2
8-38	MS465480	Brake Lever Shaft B	KD-1093	1	8-109x	EJ310871	18P Multi-Jack J-2 3250-018-001	31-4-1	1
8-39x	ZW273756	M3 Nut		1			3250-022-001S	31-4-3	1
8-40	MS397023	Tension Arm Shaft	KD-1004	1	8-110x	EJ347670	22P Multi-Jack-3		
8-41	HZ397034	Head Base Prop	KD-1005	4	8-111	EJ450573	9P Mate-N-Lock Cap Housing 1-480277-0	52-1	1
8-42x	ZW416687	Screw, binding head 4x8		4	8-112x	HZ243191	Pin Contact 60511-1	52-1	7
8-43	MZ317373	Brake Lever Prop	MR-102	2	8-113	EJ222748	Sub Magnale Socket #311SG	31-1-9	1
8-44	MH487888	Sensing Table Prop B	KH-1034	2	8-114x	MZ302400	Remote Control Socket Mt. Plate	RX-15	1
8-45x	ZW413741	Screw, binding head 3x8		8			1-480277-0	52-1	
8-46x	MZ397045	Sys. Con. Connector Prop	KD-1006	4	8-115	EJ368785	14P Multi-Jack 3250-014-001	31-4-4	1
8-47x	ZW273778	M3 Earth Lug		1	8-116x	MH487890	Servo P.C. Board Prop	KH-053	2
8-48	MZ397080	Spring Hanger	KD-1010	2	8-117	ZW417137	Screw, binding head 3x4		2
8-49	ZW323728	Screw, binding head 3x5		4	8-118	EZ397135	Center Frame	KD-153	1
8-50	MC399521	Counter M-470D	9-1-14	1	8-119x	EZ397743	P.C. Board Prop	KD-244	3
8-51	MZ397078	Counter Base	KD-1009	1	8-120	EC348704	Elect./C. 2200 μF 35WV (Lug type)	24-105-3	1
8-52	ZW323728	Screw, binding head 3x5		2	8-121	MZ472858	Connector Plate	KH-244	1
8-53	MZ512133	Micro Switch Table	KH-2059	1	8-122	EJ378944	U/L AC Socket S-1 9122	31-1-7	1
8-54	MZ2500413	Micro Insulator C	RC-127	2	8-123	EZ382263	Strain Relief SR-4K-4	2-7-1	1
8-55	ES250064	Micro Switch V-1A44 U/L	25-1-7	2	8-124x	EZ246936	Strain Relief SR-6W-1 (3 core)	2-7-8	1
8-56	ZW439514	Screw, binding head 3x18		2	8-125	EZ374894	U/L AC Cord 3M	26-3-3	1
8-57	ZW323728	Screw, binding head 3x5		2					
8-58	EC273464	MP/C. 0.1 μF(M) 350WVDC		1					
		(Tub. type)	24-9-4	1					
8-59	ZW422965	Screw, pan head 3x15		2					

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

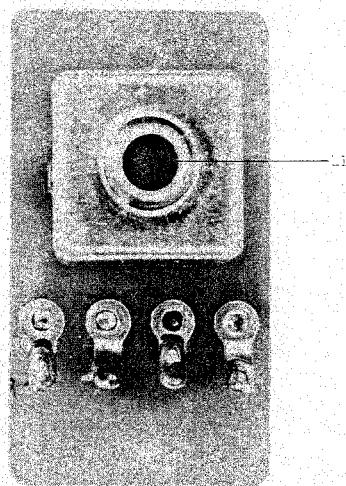
Ref. No.	Parts No.	Description	Schematic No.	Q'ty
8-126x	EZ315448	Australia Cord	26-3-11	1
8-127	EJ205975	Cramp Terminal 1-SD	32-1-7	9
8-128	EZ397124	Cycle Change Switch Plate B	KD-1055	1
8-129x	ZW201150	Screw, truss head 3x6(black)		6
8-130x	ZW374128	Iso Screw, truss head 3x8 (black)		2
8-131x	ZW447761	Tapping Screw #2 3x6(BR) (black)		4
8-132	EJ326430	11P Short Plug A	42-1-25	1
8-133	MS408497	Switch Lever Shaft	KD-1080	1
8-134	ML409083	Micro Switch Lever	KD-1081	2
8-135	ZW259683	Washer (Nylon)D3x5x1t		1
8-136x	ZW270088	'E' Ring 1.9M	6-1-9	1
8-137	ML492906	Shut-off Lever B, w/metal	KD-1052	1
8-138	MZ473073	Sensing Collar	KH-1030	1
8-139	ZW492063	Insulator Washer	KH-2056	1
8-140	MZ473051	Sensing Top	KH-1028	1
8-141	HZ317632	Insulator Collar A	MR-36	1
8-142	ZW273633	M2.3 Earth Lug		1
8-143	ZW484828	Screw, binding head 2.3x25		1
8-144	ZG409015	Tension Arm Spring C	KD-1079	1
8-145x	ZW290283	'U' Ring 2.85M	6-1-1	1
8-146	ZG407575	Shifter Lever Spring	KD-1078	1
8-147	MZ317406	Brake Band Guide, w/base	MR-120	2
8-148	ZW323728	Screw, binding head 3x5		4
8-149x	MP424023	Pinch Roller (KD)	KD-1084	1
8-150	SZ397517	Corner Angle A (left)	KD-6003A	1
8-151	SZ397528	Corner Angle B (right)	KD-6003B	1
8-152	SZ473725	Mech. Panel Reinforcement Plate	KH-1004	2
8-153	ZW413741	Screw, binding head 3x8		8
8-154	MZ514653	Plunger Joint B, w/pin	KH-2060	1
8-155	SZ473681	Side Chassis A, w/angle (right)	KH-6010A	1
8-156	SZ473692	Side Chassis B, w/angle (left)	KH-6010B	1
8-157x	ZW290248	U type Speed Nut M4 #1 (small)	6-3-1	6
8-158	ZW290250	U type Speed Nut M4 #1 (large)	6-3-2	10
8-159x	ZW200610	Tapping Screw 4x12(truss)		6

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

**FIG. 9 PHOTO OF TAPE SPEED SWITCH
P.C. BOARD (KH-2011)**



**FIG. 10 PHOTO OF
COIL P.C. BOARD (KD-1097)**



**TAPE SPEED SWITCH
P.C. BOARD (KH-2011) BLOCK**

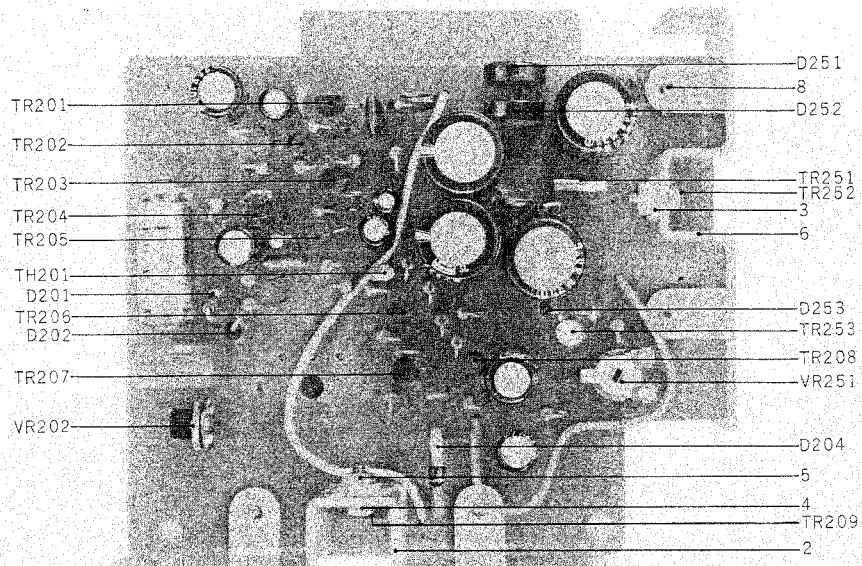
Symbol No.	Parts No.	Description	Q'ty
9-1x	BA482387	Tape Speed Switch P.C. Board Comp. (KH-2011)	1
9-L1	EO243977	Ferri Inductor FL7H 1MH(J)	1
9-L2, 3	EO458932	Ferri Inductor FL7H 2.2MH(J)	2
9-L4	EO243977	Ferri Inductor FL7H 1MH(J)	1
9-SW1	ES472645	Push Switch SPM025N	1
Capacitor, Vertical Type			
9-C1	EC379157	Mylar 0.033μF(J) 50WV	1
9-C2	EC389485	Mylar 0.018μF(J) 50WV	1
9-C3	EC379157	Mylar 0.033μF(J) 50WV	1
9-C4	EC368335	Mylar 0.022μF(J) 50WV	1
9-C5	EC250975	Mylar 0.015μF(J) 50WV	1
9-C6	EC411827	Mylar 0.0082μF(J) 50WV	1
9-C7	EC379157	Mylar 0.033μF(J) 50WV	1
9-C8	EC389485	Mylar 0.018μF(J) 50WV	1
9-C9	EC379192	Mylar 0.039μF(J) 50WV	1
9-C10	EC250975	Mylar 0.015μF(J) 50WV	1
9-C11	EC368335	Mylar 0.022μF(J) 50WV	1
9-C12	EC350875	Mylar 0.001μF(J) 50WV	1
9-C13	EC329848	Hi-Q 100PF(J) 50WV	1
9-C14	EC350875	Mylar 0.001μF(J) 50WV	1
9-C15	EC329848	Hi-Q 100PF(J) 50WV	1
9-C16	EC411827	Mylar 0.0082μF(J) 50WV	1
Resistor, Stopper Type			
9-R1	ER362441	Carbon RD1/4 1.8k(J)	1
9-R2	ER399060	Carbon RD1/4 9.1k(J)	1
9-R4	ER399060	Carbon RD1/4 9.1k(J)	1
9-R6	ER362441	Carbon RD1/4 1.8k(J)	1

COIL P.C. BOARD (KD-1097) BLOCK

Symbol No.	Parts No.	Description	Q'ty
10-1x	BA495808	Coil P.C. Board Comp. (KD-1097)	1
10-L1	EO403446	Variable Coil VI2031 SC-01	1
10-2x	EZ495843	Coil Retaining Angle	1
10-3x	ZW413155	Screw, binding head 3x6	2

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

FIG. 11 PHOTO OF SERVO P.C. BOARD (KH-1011)

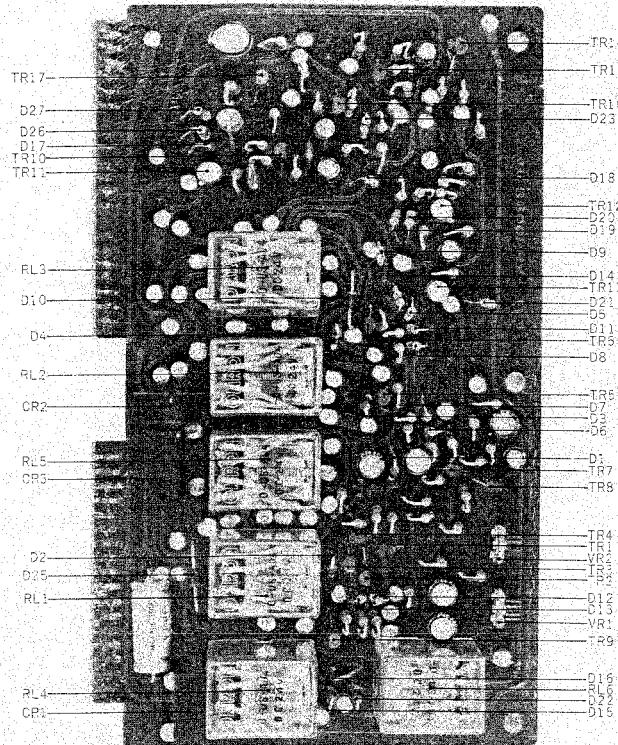


SERVO P.C. BOARD (KH-1011) BLOCK

Symbol No.	Parts No.	Description	Q'ty	Symbol No.	Parts No.	Description	Q'ty
11-1x	BA482332	Servo P.C. Board Comp. (KH-1011)	1	11-C210	EC424080	Styrol 0.051 μ F(F) 50WV (Tab. type)	1
11-TR201	ET379462	Transistor 2SC711(D)(E)	1	11-C211	EC438524	Mylar 0.27 μ F(H) 100WV	1
11-TR202	ET356984	Transistor 2SA564(R)	1	11-C213	EC220994	Elect. 10 μ F 25WV	1
11-TR203, 4	ET379462	Transistor 2SC711(D)(E)	2	11-C215	EC368280	Solid Aluminum 33 μ F 6.3WV	1
11-TR205	ET356984	Transistor 2SA564(R)	1	11-C216	EC220151	Elect. 100 μ F 25WV	1
11-TR206	ET398777	Transistor 2SC711(G)(F)	1	11-C251, 2	EC403468	Elect. 330 μ F 50WV	2
11-TR207	ET379462	Transistor 2SC711(D)(E)	1	11-C253	EC372148	Elect. 220 μ F 35WV	1
11-TR208	ET399936	Transistor 2SC945(R)(S)	1	11-C254	EC331817	Elect. 470 μ F 25WV	1
11-TR209	ET403042	Transistor 2SD234(Y)	1	11-C255	EC350684	Elect. 22 μ F 25WV	1
11-TR251	ET408971	Transistor 2SC1013	1	11-C257	EC450281	Elect. 0.47 μ F 50WV	1
11-TR252	ET403042	Transistor 2SD234(Y)	1			Resistor, Stopper Type	
11-TR253	ET391138	Transistor 2SC968(3)(4)	1		ER336442	Carbon RD1/4 10k(J)	1
11-D201, 2	ED224526	Silicon Diode 10D1	2		ER362441	Carbon RD1/4 1.8k(J)	1
11-D204	ED224526	Silicon Diode 10D1	1		ER357456	Carbon RD1/4 2.2k(J)	1
11-D251	ED329130	Silicon Diode 10DC-1(black)	1		ER212264	Carbon RD1/4 22k(J)	1
11-D252	ED329128	Silicon Diode 10DC-1(red)	1		ER336442	Carbon RD1/4 10k(J)	3
11-D253	ED384096	Zener Diode RD-9A	1		ER361642	Carbon RD1/4 4.7k(J)	1
11-TH201	ED321390	Thermister 41D26	1		ER211757	Carbon RD1/4 100k(J)	1
11-VR202	EV498060	Semi-fixed Volume V10K8-1-5 2k B(4US)	1		ER357456	Carbon RD1/4 2.2k(J)	1
11-VR251	EV484863	Semi-fixed Volume V10K8-4-2 1k B	1		ER212681	Carbon RD1/4 330(J)	1
					ER403187	Carbon RD1/4 10k(F)(P type)	1
11-2	EZ407586	Heat-sink Plate B	1	11-R213	ER403097	Carbon RD1/4P 9.1k(J) (P type)	1
11-3	ZW392940	Insulator Washer 1 G-473025-1	2				
11-4	ZW421806	Screw, pan head 3x8	2	11-R214	ER212883	Carbon RD1/4 4.7k(J)	1
11-5	ZW273756	M3 Nut	4	11-R217	ER306887	Carbon RD1/4 15k(J)	1
11-6	EZ474017	Heat-sink Plate	1	11-R218	ER212883	Carbon RD1/4 4.7k(J)	1
11-7x	ZW413155	Screw, binding head 3x6	2	11-R219	ER357456	Carbon RD1/4 2.2k(J)	1
11-8	ZW413741	Screw, binding head 3x8	2	11-R220	ER211667	Carbon RD1/4 100(J)	1
11-9x	ZW273802	M3 Toothed Lock Washer	1	11-R221	ER213030	Carbon RD1/4 5.6k(J)	1
11-10x	EZ473400	Servo P.C. Board Collar	2	11-R222, 3	ER357456	Carbon RD1/4 2.2k(J)	2
11-11x	ZW413155	Screw, binding head 3x6	2	11-R224, 5	ER211465	Carbon RD1/4 1k(J)	2
		Capacitor, Vertical Type		11-R226	ER304290	Carbon RD1/4 10(J)	1
11-C201	EC398957	Mylar 0.1 μ F(M) 50WV	1	11-R227	ER306887	Carbon RD1/4 15k(J)	1
11-C202	EC251190	Mylar 0.056 μ F(K) 50WV	1	11-R228	ER424078	Carbon RD1/4 51(J)	1
11-C203	EC331705	Elect. 22 μ F 16WV	1	11-R229	ER304402	Carbon RD1/4 470(J)	1
11-C204	EC379787	Mylar 0.0039 μ F(J) 50WV	1	11-R251	ER357456	Carbon RD1/4 2.2k(J)	1
11-C205	EC320051	Elect. 10 μ F 16WV	1	11-R252	ER212681	Carbon RD1/4 330(J)	1
11-C206	EC250661	Mylar 0.0015 μ F(K) 50WV	1	11-R253	ER343078	Carbon RD1/4 2.7k(J)	1
11-C207	EC220151	Elect. 100 μ F 25WV	1	11-R254	ER357456	Carbon RD1/4 2.2k(J)	1
11-C208	EC350684	Elect. 22 μ F 25WV	1	11-R255	ER306843	Carbon RD1/4 1.2k(J)	1
11-C209	EC329850	VFM 220PF(J) 50WV	1	11-R256	ER447682	Solid RC1/2.47(J)	1
				11-R257	ER347038	Carbon RD1/4 270(J)	1

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

FIG. 12 (A) PHOTO OF
SYS. CON. P.C. BOARD (KH-1009)

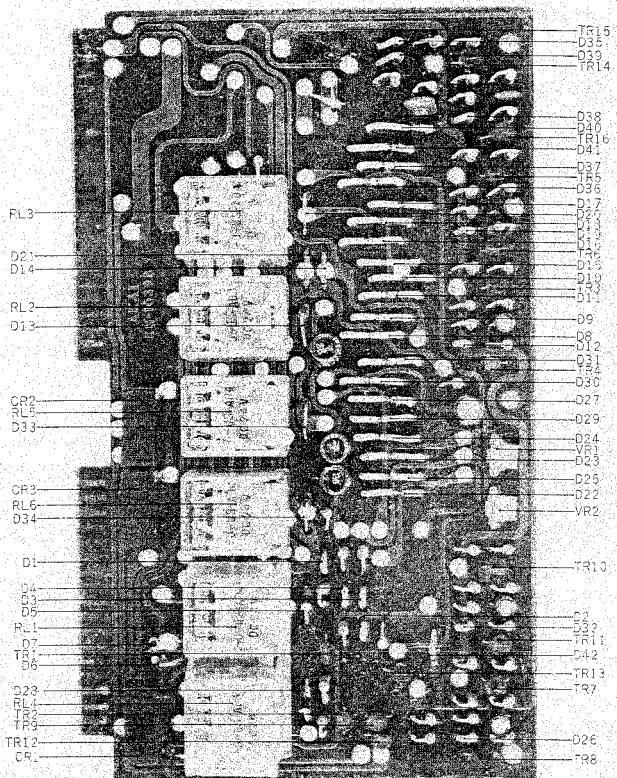


SYS. CON. P.C. BOARD (KH-1009) BLOCK

Symbol No.	Parts No.	Description	Q'ty	12-R17	ER212264	Carbon RD1/4 22k(J)
12-1x	BA482365	Sys. Con. P.C. Board Comp. (KH-1009)	1	12-R18	ER212883	Carbon RD1/4 4.7k(J)
				12-R19	ER212264	Carbon RD1/4 22k(J)
				12-R20, 1	ER362485	Carbon RD1/4 330k(J)
12-TR1 to 10	ET398711	Transistor 2SC945(Q)(R)	10	12-R22, 3	ER357535	Carbon RD1/4 39k(J)
12-TR11 to 13	ET338894	Transistor 2SC968(3)	3	12-R24, 5	ER212883	Carbon RD1/4 4.7k(J)
12-TR14 to 17	ET398711	Transistor 2SC945(Q)(R)	4	12-R26	ER357456	Carbon RD1/4 2.2k(J)
12-D1 to 4	ED224526	Silicon Diode 10D1	4	12-R27	ER343078	Carbon RD1/4 2.7k(J)
12-D5 to 9	ED219464	Germanium Diode 1N34A	5	12-R28, 9	ER391623	Metal Oxide Film 1W 1k(K)
12-D10	ED224526	Silicon Diode 10D1	1	12-R30	ER357456	Carbon RD1/4 2.2k(J)
12-D11 to 14	ED219464	Germanium Diode 1N34A	4	12-R31	ER213300	Carbon RD1/4 680(J)
12-D15 to 17	ED224526	Silicon Diode 10D1	3	12-R32	ER306843	Carbon RD1/4 1.2k(J)
12-D18 to 21	ED219464	Germanium Diode 1N34A	4	12-R33	ER213300	Carbon RD1/4 680(J)
12-D22	ED224526	Silicon Diode 10D1	1	12-R34	ER211667	Carbon RD1/4 100(J)
12-D23	ED219464	Germanium Diode 1N34A	1	12-R35, 6	ER212883	Carbon RD1/4 4.7k(J)
12-D25	ED224550	Silicon Diode 10D4	1	12-R37, 8	ER213030	Carbon RD1/4 5.6k(J)
12-D26, 7	ED219464	Germanium Diode 1N34A	2	12-R39	ER357412	Carbon RD1/4 220(J)
12-RL1 to 6	EP344136	Relay MY4-0-US-AD4-24V	6	12-R40	ER212883	Carbon RD1/4 4.7k(J)
12-CR1 to 3	ER376424	Spark Quencher U/L 0.1μ+120 500WV	3	12-R41	ER211465	Carbon RD1/4 1k(J)
				12-R42	ER213030	Carbon RD1/4 5.6k(J)
12-VR1	EV426936	Semi-fixed Volume V10K-5 30k B	1	12-R43	ER211465	Carbon RD1/4 1k(J)
				12-R44	ER212264	Carbon RD1/4 22k(J)
12-VR2	EV221826	Semi-fixed Volume V10K-5 10k B	1	12-R45	ER343078	Carbon RD1/4 2.7k(J)
				12-R46	ER212883	Carbon RD1/4 4.7k(J)
				12-R47, 8, 9	ER212264	Carbon RD1/4 22k(J)
				12-R50, 1	ER212883	Carbon RD1/4 4.7k(J)
				12-R52, 3	ER212264	Carbon RD1/4 22k(J)
				12-R54	ER212883	Carbon RD1/4 4.7k(J)
				12-R55	ER346601	Carbon RD1/4 47k(J)
				12-R56, 7	ER212264	Carbon RD1/4 22k(J)
				12-R58	ER493110	Carbon RD1/4 2.2k(J)

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

FIG. 12 (B) PHOTO OF
SYS. CON. P.C. BOARD (KH-1039)

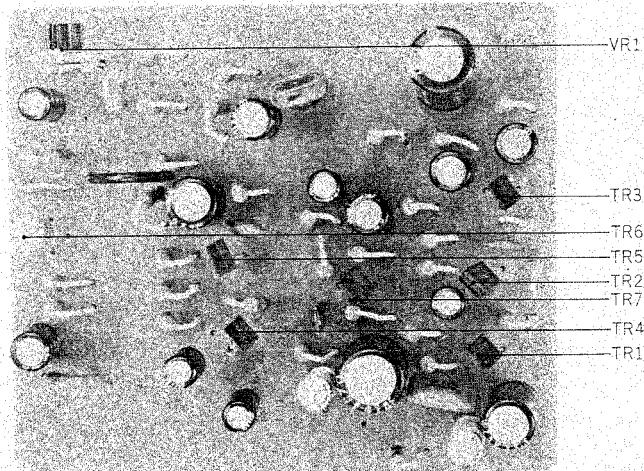


SYS. CON. P.C. BOARD (KH-1039) BLOCK

Symbol No.	Parts No.	Description	Q'ty	12-R2, 3	12-R4	12-R5, 6, 7	ER320207	Carbon RD1/4 4.7K (J)	1
12-2x	BA515520	Sys. Con. P.C. Board (KH-1039)	1	12-R8	ER429996	Carbon RD1/4 4.7K (J)	1		
12-TR1	ET515722	Transistor 2SC711 (D)(E)(F)	1	12-R9	ER346601	Carbon RD1/4 4.7K (J)	1		
12-TR2	ET515700	Transistor 2SA628 (D)(E)(F)	1	12-R10 to 12	ER212883	Carbon RD1/4 4.7K (J)	3		
12-TR3	ET515722	Transistor 2SC711 (D)(E)(F)	1	12-R13	ER211465	Carbon RD1/4 1k (J)	1		
12-TR4	ET515733	Transistor 2SC945 (P)(Q)(R)(S)	1	12-R14	ER336442	Carbon RD1/4 10k (J)	1		
12-TR5	ET515722	Transistor 2SC711 (D)(E)(F)	1	12-R15	ER212883	Carbon RD1/4 4.7K (J)	1		
12-TR6	ET515733	Transistor 2SC945 (P)(Q)(R)(S)	1	12-R16	ER211465	Carbon RD1/4 1k (J)	1		
12-TR7, 8	ET515722	Transistor 2SC711 (D)(E)(F)	2	12-R17, 8	ER212883	Carbon RD1/4 4.7K (J)	2		
12-TR9	ET515700	Transistor 2SA628 (D)(E)(F)	1	12-R19	ER211465	Carbon RD1/4 1k (J)	1		
12-TR10, 1	ET515722	Transistor 2SC711 (D)(E)(F)	2	12-R20	ER336442	Carbon RD1/4 10k (J)	1		
12-TR12	ET515700	Transistor 2SA628 (D)(E)(F)	1	12-R21	ER212883	Carbon RD1/4 4.7K (J)	1		
12-TR13	ET515880	Transistor 2SA696 (C)(D)	1	12-R22	ER211465	Carbon RD1/4 1k (J)	1		
12-TR14	ET515722	Transistor 2SC711 (D)(E)(F)	1	12-R23, 4	ER212883	Carbon RD1/4 4.7K (J)	2		
12-TR15	ET515700	Transistor 2SA628 (D)(E)(F)	1	12-R25	ER211465	Carbon RD1/4 1k (J)	1		
12-TR16	ET515722	Transistor 2SC711 (D)(E)(F)	1	12-R26	ER336442	Carbon RD1/4 10k (J)	1		
12-D1 to 4	ED514721	Silicon Diode WG-599	4	12-R27	ER212883	Carbon RD1/4 4.7K (J)	1		
12-D5	ED224526	Silicon Diode 10D1	1	12-R28	ER211465	Carbon RD1/4 1k (J)	1		
12-D6, 7	ED224550	Silicon Diode 10D4	2	12-R29 to 31	ER212883	Carbon RD1/4 4.7K (J)	3		
12-D8 to 12	ED514721	Silicon Diode WG-599	5	12-R32	ER211465	Carbon RD1/4 1k (J)	1		
12-D13	ED224526	Silicon Diode 10D1	1	12-R33	ER336442	Carbon RD1/4 10k (J)	1		
12-D14 to 19	ED514721	Silicon Diode WG-599	6	12-R34	ER212883	Carbon RD1/4 4.7K (J)	1		
12-D20	ED224526	Silicon Diode 10D1	1	12-R35	ER211465	Carbon RD1/4 1k (J)	1		
12-D21 to 27	ED514721	Silicon Diode WG-599	7	12-R36	ER304290	Carbon RD1/4 10 (J)	1		
12-D28	ED224526	Silicon Diode 10D1	1	12-R37	ER336442	Carbon RD1/4 10k (J)	1		
12-D29 to 32	ED514721	Silicon Diode WG-599	4	12-R38	ER399723	Carbon RD1/4 4.7 (J)	1		
12-D33, 34	ED224526	Silicon Diode 10D1	2	12-R39, 40	ER212883	Carbon RD1/4 4.7K (J)	2		
12-D35 to 42	ED514721	Silicon Diode WG-599	8	12-R41	ER211464	Carbon RD1/4 1k (J)	1		
12-RL1 to 6	EP344136	Relay MY4-O-US-AD4-24V	6	12-R43	ER336442	Carbon RD1/4 10k (J)	1		
12-CR1 to 3	ER376424	Spark Quencher 0.1μ+120		12-R44	ER212883	Carbon RD1/4 4.7K (J)	1		
		500WV	3	12-R45	ER346601	Carbon RD1/4 4.7K (J)	1		
12-VR1, 2	EV513562	Semi-fixed Volume V10K8-1.5		12-R46, 7	ER211465	Carbon RD1/4 1k (J)	2		
		100k B4US	2	12-R48	ER336442	Carbon RD1/4 10k (J)	1		

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

FIG. 13 PHOTO OF REC. AMP. P.C. BOARD (KH-5013)

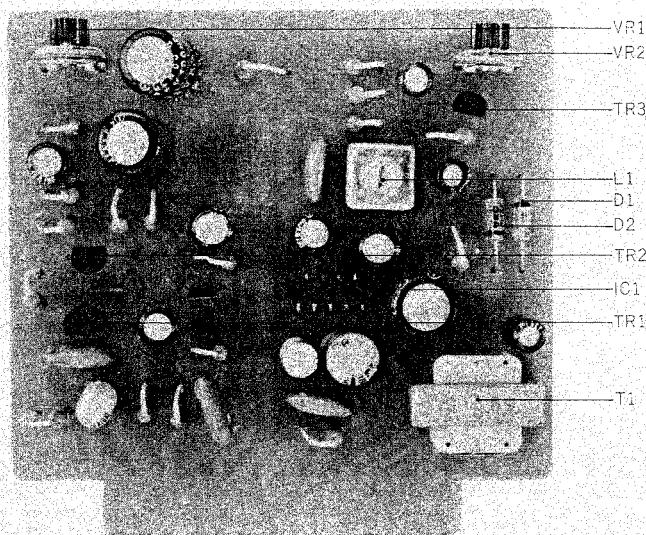


REC. AMP. P.C. BOARD (KH-5013) BLOCK

Symbol No.	Parts No.	Description	Q'ty	Symbol No.	Parts No.	Description	Q'ty
13-1x	BA482490	Rec. Amp. P.C. Board Comp. (KH-5013)	1	13-R1	ER336442	Resistor, Stopper Type	
13-TR1, 2	ET234843	Transistor 2SC458LG(B)(C)	2	13-R2, 3	ER383758	Carbon RD1/4 10k(J)	1
13-TR3	ET329242	Transistor 2SC454(C)	1	13-R4	ER349942	Carbon RD1/4 180k(J)(noiseless)	2
13-TR4	ET234843	Transistor 2SC458LG(B)(C)	1	13-R5	ER212681	Carbon RD1/4 8.2k(J)	1
13-TR5	ET329242	Transistor 2SC454(C)	1	13-R6	ER342933	Carbon RD1/4 330(J)	1
13-TR6	ET338894	Transistor 2SC968(3)	1	13-R7, 8	ER346994	Carbon RD1/4 27k(J)	1
13-TR7	ET234832	Transistor 2SC458LG(B)	1	13-R9, 10	ER212477	Carbon RD1/4 18k(J)	2
13-VR1	EV221826	Semi-fixed Volume Vi0K-5 10k B	1	13-R11	ER336442	Carbon RD1/4 3.3k(J)	2
		Capacitor, Vertical Type		13-R12	ER383758	Carbon RD1/4 10k(J)	1
13-C1	EC220612	Elect. 33μF 25WV	1	13-R13	ER346601	Carbon RD1/4 180k(J) (noiseless)	1
13-C2	EC432810	Elect. 10μF 16WV(noiseless)	1	13-R14	ER211858	Carbon RD1/4 47k(J)	1
13-C3	EC290586	VFM 470PF(K) 50WV	1	13-R15	ER211465	Carbon RD1/4 12k(J)	1
13-C4	EC220465	Elect. 22μF 6.3WV	1	13-R16	ER352045	Carbon RD1/4 1k(J)	1
13-C5	EC487394	VFM 47PF(K) 50WV	1	13-R17, 8	ER213030	Carbon RD1/4 3.9k(J)	2
13-C6	EC329771	Elect. 47μF 6.3WV	1	13-R19	ER450011	Carbon RD1/4 5.6k(J)	1
13-C7	EC350684	Elect. 22μF 25WV	1	13-R20	ER213467	Carbon RD1/4 120k(J)	1
13-C8	EC220678	Elect. 47μF 25WV	1	13-R21	ER211757	Carbon RD1/4 820(J)	1
13-C9	EC432810	Elect. 10μF 16WV(noiseless)	1	13-R22	ER211757	Carbon RD1/4 100k(J)	1
13-C10	EC250604	Mylar 0.001μF(K) 50WV	1	13-R23	ER352045	Carbon RD1/4 1.8k(J)	1
13-C11	EC220994	Elect. 10μF 25WV	1	13-R24	ER362441	Carbon RD1/4 560(J)	1
13-C12	EC220465	Elect. 22μF 6.3WV	1	13-R25	ER363644	Carbon RD1/4 27k(J)	1
13-C13	EC220151	Elect. 100μF 25WV	1	13-R26	ER212681	Carbon RD1/4 56k(J)	1
13-C14	EC320051	Elect. 10μF 16WV	1	13-R27	ER211858	Carbon RD1/4 22k(J)	1
13-C16	EC220465	Elect. 22μF 16WV	1	13-R28	ER342933	Carbon RD1/4 1.2k(J)	1
13-C17	EC487394	VFM 47PF(K) 50WV	1	13-R29	ER352045	Carbon RD1/4 6.2k(J)	1
13-C18	EC320040	Elect. 47μF 16WV	1	13-R30	ER211465	Carbon RD1/4 3.9k(J)	1
13-C19	EC302253	Mylar 0.15μF(K) 50WV	1	13-R31	ER212681	Carbon RD1/4 1k(J)	1
13-C20	EC220994	Elect. 10μF 25WV	1	13-R32	ER349784	Carbon RD1/4 390(J)	1
13-C23	EC320051	Elect. 10μF 16WV	1	13-R33	ER212477	Carbon RD1/4 3.3k(J)	1
13-C24	EC220994	Elect. 10μF 25WV	1	13-R34	ER212477	Carbon RD1/4 390(J)	1
13-C25	EC423562	VFM 470PF(J) 50WV	1	13-R35	ER349784	Carbon RD1/4 3.3k(J)	1

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

FIG. 14 PHOTO OF P.B. AMP. P.C. BOARD (KH-5014)

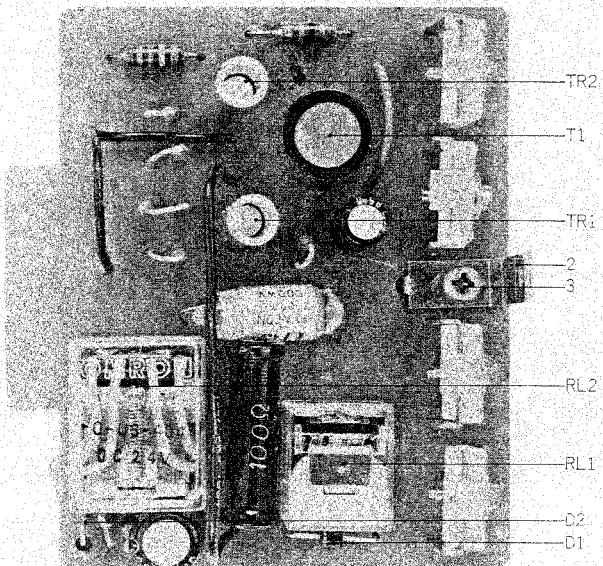


P.B. AMP. P.C. BOARD (KH-5014) BLOCK

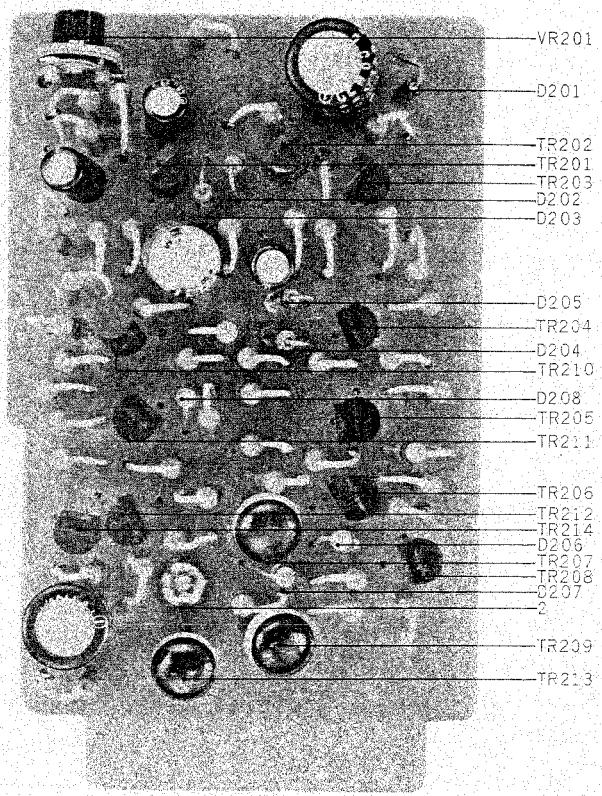
Symbol No.	Parts No.	Description	Q'ty	Symbol No.	Parts No.	Description	Q'ty
14-1X	BA482501	P.B. Amp. P.C. Board Comp. (KH-5014)	1	14-C15	EC290564	VFM 220PF(K) 50WV	1
14-IC1	EI412413	Line Amp. I.C. LD-3141	1	14-C16	EC220364	Elect. 100μF 6.3WV	1
14-TR1, 2	ET399868	Transistor 2SC871(F)	2	14-C17	EC220994	Elect. 10μF 25WV	1
14-TR3	ET398711	Transistor 2SC945(Q)(R)	1	14-C18	EC450055	Elect. 1μF 25WV	1
14-D1, 2	ED219464	Germanium Diode 1N34A	2	14-C19	EC320051	Elect. 10μF 16WV	1
14-T1	BT247768	Head Phone Trans. N19-5921S	1	14-C20	EC450055	Elect. 1μF 25WV	1
14-L1	EO262484	DM Coil 10MH	1			Resistor, Stopper Type	
14-VR1	EV221850	Semi-fixed Volume V10K-5 20k B	1	14-R1, 2	ER427083	Carbon RD1/4 330k(J)(noiseless)	2
14-VR2	EV398812	Semi-fixed Volume V10K-5 5k B	1	14-R3	ER336442	Carbon RD1/4 10k(J)	1
		Capacitor, Vertical Type		14-R4	ER212681	Carbon RD1/4 330(J)	1
14-C1	EC432810	Elect. 10μF 16WV(noiseless)	1	14-R5	ER357570	Carbon RD1/4 150k(J)	1
14-C2	EC220678	Elect. 47μF 25WV	1	14-R6	ER342933	Carbon RD1/4 27k(J)	1
14-C3	EC290586	VFM 470PF(K) 50WV	1	14-R7	ER212883	Carbon RD1/4 4.7k(J)	1
14-C4	EC329771	Elect. 47μF 6.3WV	1	14-R8	ER212477	Carbon RD1/4 3.3k(J)	1
14-C5	EC377212	VFM 47PF(J) 50WV	1	14-R9	ER336442	Carbon RD1/4 10k(J)	1
14-C6	EC329771	Elect. 47μF 6.3WV	1	14-R10	ER380711	Carbon RD1/4 220k(J)	1
14-C7	EC429851	VFM 680PF(J) 50WV	1	14-R11	ER349907	Carbon RD1/4 33k(J)	1
14-C8	EC250841	Mylar 0.01μF(J) 50WV	1	14-R12	ER212883	Carbon RD1/4 4.7k(J)	1
14-C9	EC220994	Elect. 10μF 25WV	1	14-R13	ER304402	Carbon RD1/4 470(J)	1
14-C10, 1	EC220151	Elect. 100μF 25WV	2	14-R14	ER336442	Carbon RD1/4 10k(J)	1
14-C12	EC432810	Elect. 10μF 16WV(noiseless)	1	14-R15	ER212264	Carbon RD1/4 22k(J)	1
14-C13	EC290564	VFM 220PF(K) 50WV	1	14-R16	ER429996	Carbon RD1/4 470k(J)	1
14-C14	EC329771	Elect. 47μF 6.3WV	1	14-R17, 8	ER357456	Carbon RD1/4 2.2k(J)	2

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

**FIG. 15 PHOTO OF
OSC. P.C. BOARD (KH-5015)**



**FIG. 16 PHOTO OF COM DETECTOR
P.C. BOARD (RD-A514)**



OSC. P.C. BOARD (KH-5015) BLOCK

Symbol No.	Parts No.	Description	Q'ty
15-1x	BA482512	OSC. P.C. Board Comp. (KH-5015)	1
15-TR1, 2	ET304255	Transistor 2SC971(2)(3)(red)	2
15-T1	EO383365	OSC. Coil OT-204	1
15-D1, 2	ED224526	Silicon Diode 10D1	2
15-RL1	EP383321	Relay TECK-36 DC22V 1000	1
15-RL2	EP344136	Relay MY4-O-US-AD4-24V	1
15-2	EZ425226	P.C. Board Retaining Metal	1
15-3	ZW413155	Screw, binding head 3x6	1
15-4x	ZW273756	M3 Nut	1
Capacitor, Vertical Type			
15-C1	EC350684	Elect. 22 μ F 25WV	1
15-C2, 3	EC250841	Mylar 0.01 μ F(J) 50WV	2
15-C4	EC442080	Plastic Film 4500PF(J) 500WV	1
15-C5 to 8	EC425250	Trimmer A-1P3-3 70PF	4
15-C9	EC220151	Elect. 100 μ F 25WV	1
Resistor, Stopper Type			
15-R1	ER426892	Solid RC1/2W 2.4k(J)	1
15-R2	ER251684	Wire-wound 2WL 100(K) (L type)	1
15-R3, 4	ER315944	Carbon RD1/4 3.3(J)	2
15-R5	ER212883	Carbon RD1/4 4.7k(J)	1
15-R6	ER304402	Carbon RD1/4 470(J)	1
15-R7	ER455848	Solid RC1/2W 27(J)	1
15-R8	ER347038	Carbon RD1/4 270(J)	1
15-R9	ER211667	Carbon RD1/4 100(J)	1
15-R10	ER361642	Carbon RD1/4 47(J)	1

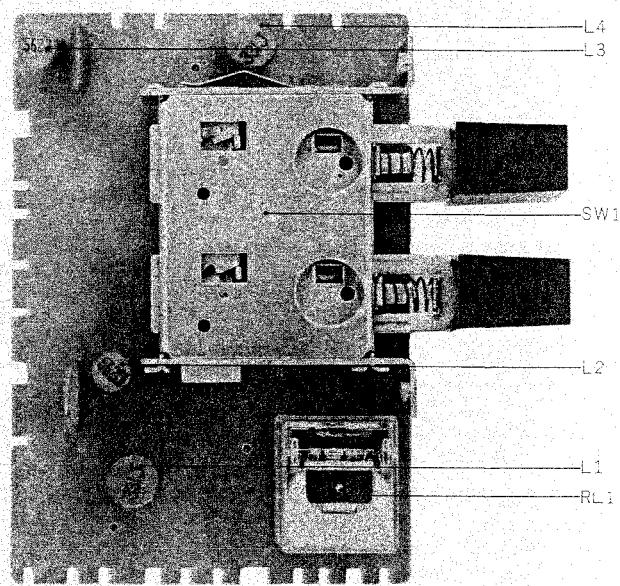
COM DETECTOR

Symbol No.	Parts No.	Description	Q'ty
16-1x	BA482523	COM Detector P.C. Board Comp. (RD-A514)	1
16-TR201	ET380834	Transistor 2SC711(E)	1
16-TR202, 3, 4	ET371935	Transistor 2SC711(D)	3
16-TR205, 6	ET380834	Transistor 2SC711(E)	2
16-TR207	ET383466	Transistor CDC9000-1(B)	1
16-TR208	ET380834	Transistor 2SC711(E)	1
16-TR209	ET383466	Transistor CDC9000-1(B)	1
16-TR210, 1	ET371935	Transistor 2SC711(D)	2
16-TR212	ET380834	Transistor 2SC711(E)	1
16-TR213	ET383466	Transistor CDC9000-1(B)	1
16-TR214	ET380834	Transistor 2SC711(E)	1
16-D201	ED321243	Zener Diode 1N759A	1
16-D202 to 8	ED219464	Germanium Diode 1N34A	7
16-VR201	EV221837	Semi-fixed Volume V10K-5	1
			100k B
16-2	ZW201971	Screw, binding head 3x12	1
16-3x	EZ348647	Micro Switch Collar C	1
16-4x	EZ473477	COM P.C. Board Mt. Part	1
16-5x	ZW273756	M3 Nut	1
Capacitor, Vertical Type			
16-C201	EC220151	Elect. 100 μ F 25WV	1
16-C202	EC313108	Elect. 1 μ F 50WV	1
16-C203	EC220364	Elect. 100 μ F 6.3WV	1
16-C204	EC450281	Elect. 0.47 μ F 50WV	1

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

Symbol No.	Parts No.	Description	Q'ty
16-C205	EC350706	Elect. 4.7μF 16WV	1
16-C206	EC220127	Elect. 100μF 16WV	1
Resistor, Stopper Type			
16-R201	ER363644	Carbon RD1/4 560(J)	1
16-R202	ER346601	Carbon RD1/4 47k(J)	1
16-R203	ER212174	Carbon RD1/4 180k(J)	1
16-R204	ER346601	Carbon RD1/4 47k(J)	1
16-R205	ER306887	Carbon RD1/4 15k(J)	1
16-R206	ER363644	Carbon RD1/4 560(J)	1
16-R207	ER361642	Carbon RD1/4 47(J)	1
16-R208	ER346601	Carbon RD1/4 47k(J)	1
16-R209	ER357456	Carbon RD1/4 2.2k(J)	1
16-R210	ER336442	Carbon RD1/4 10k(J)	1
16-R211	ER357456	Carbon RD1/4 2.2k(J)	1
16-R212	ER212264	Carbon RD1/4 22k(J)	1
16-R213	ER336442	Carbon RD1/4 10k(J)	1
16-R214	ER361642	Carbon RD1/4 47(J)	1
16-R215	ER212264	Carbon RD1/4 22k(J)	1
16-R216	ER336442	Carbon RD1/4 10k(J)	1
16-R217, 8	ER213030	Carbon RD1/4 5.6k(J)	2
16-R219	ER212264	Carbon RD1/4 22k(J)	1
16-R220	ER361642	Carbon RD1/4 47(J)	1
16-R221	ER336442	Carbon RD1/4 10k(J)	1
16-R222	ER212883	Carbon RD1/4 4.7k(J)	1
16-R223, 4	ER371946	Carbon RD1/4 2k(J)	2
16-R225	ER212883	Carbon RD1/4 4.7k(J)	1
16-R226	ER336442	Carbon RD1/4 10k(J)	1
16-R227	ER212264	Carbon RD1/4 22k(J)	1
16-R228	ER380913	Carbon RD1/4 33(J)	1
16-R229, 30	ER213030	Carbon RD1/4 5.6k(J)	2
16-R231	ER212264	Carbon RD1/4 22k(J)	1
16-R232	ER336442	Carbon RD1/4 10k(J)	1
16-R233	ER213030	Carbon RD1/4 5.6k(J)	1
16-R234	ER212264	Carbon RD1/4 22k(J)	1
16-R235	ER361642	Carbon RD1/4 47(J)	1
16-R236	ER336442	Carbon RD1/4 10k(J)	1
16-R237	ER361642	Carbon RD1/4 47(J)	1
16-R238	ER213030	Carbon RD1/4 5.6k(J)	1
16-R239	ER212264	Carbon RD1/4 22k(J)	1
16-R240	ER336442	Carbon RD1/4 10k(J)	1
16-R241	ER212883	Carbon RD1/4 4.7k(J)	1
16-R242, 3	ER371946	Carbon RD1/4 2k(J)	2
16-R244	ER212883	Carbon RD1/4 4.7k(J)	1
16-R245	ER362441	Carbon RD1/4 1.8k(J)	1
16-R246	ER349942	Carbon RD1/4 8.2k(J)	1
16-R247	ER357456	Carbon RD1/4 2.2k(J)	1

FIG. 17 PHOTO OF TRACK SELECTOR
P.C. BOARD (KH-5011)

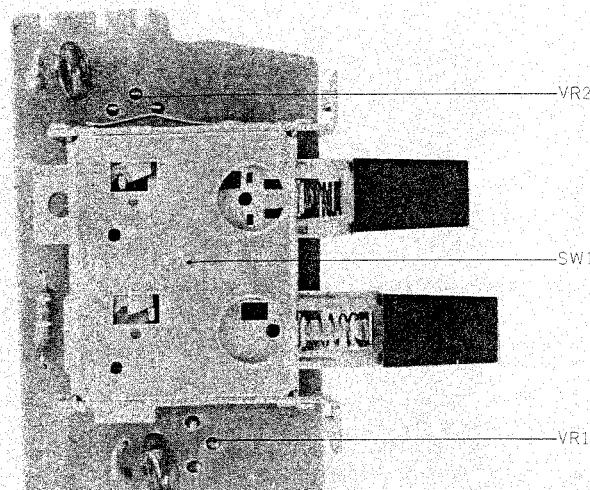


TRACK SELECTOR
P.C. BOARD (KH-5011) BLOCK

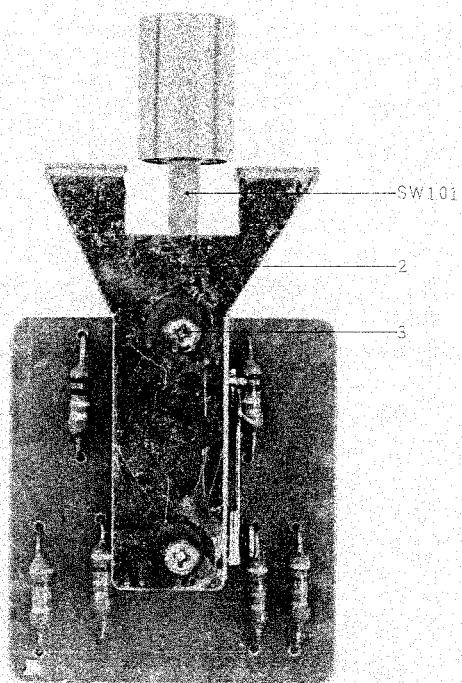
Symbol No.	Parts No.	Description	Q'ty
17-1X	BA482477	Track Selector P.C. Board Cor. p. (KH-5011)	1
17-D1	ED224526	Silicon Diode 10D1	1
17-L1	EO495527	Ferri Inductor FL9H 330μH()	1
17-L2, 3	EO424888	Ferri Inductor FL5H 5.6MH()	2
17-L4	EO495527	Ferri Inductor FL9H 330μH()	1
17-RL1	EP383321	Relay TECK-36 DC22V 1000	1
17-SW1	ES411805	Push Switch UM21620C	1
17-C1, 2	EC337487	Hi-Q Capacitor 470PF(J) 50WV	2

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

**FIG. 18 PHOTO OF MONITOR SWITCH
P.C. BOARD (KH-5012)**



**FIG. 19 PHOTO OF COM SWITCH
P.C. BOARD (RD-525)**



**MONITOR SWITCH
P.C. BOARD (KH-5012) BLOCK**

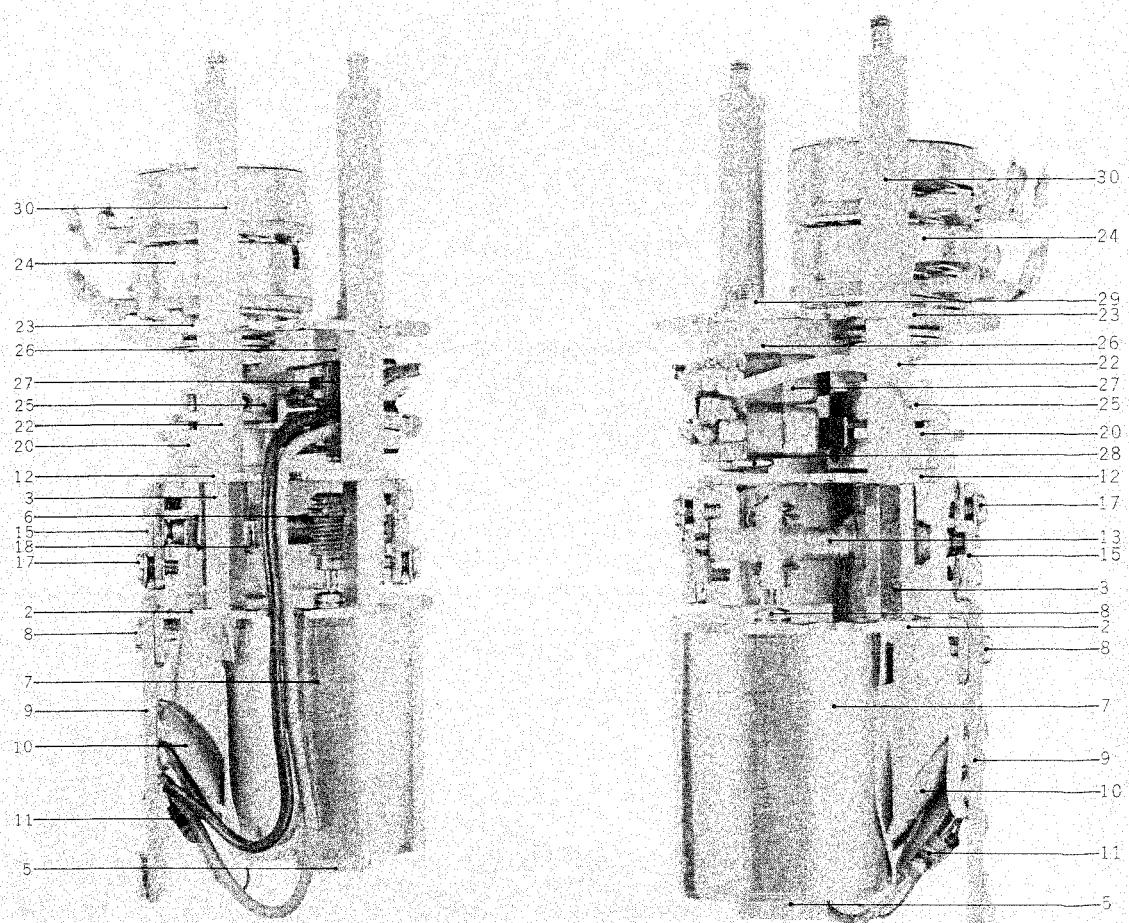
Symbol No.	Parts No.	Description	Q'ty
18-1x	BA482488	Monitor Switch P.C. Board Comp. (KH-5012)	1
18-VR1, 2	EV482962	Semi-fixed Volume V-10K5-2-4 5k B, w/knob	2
18-SW1	ES245103	Push Switch UM21220J	1
18-C1, 2	EC389496	Mylar 0.068μF(J) 50WV (Vert. type)	2
Resistor, Stopper Type			
18-R1	ER212264	Carbon RD1/4 22k(J)	1
18-R2	ER364994	Carbon RD1/4 39k(J) (Insu. type)	1
18-R3	ER212264	Carbon RD1/4 22k(J)	1

COM SWITCH P.C. BOARD (RD-525) BLOCK

Symbol No.	Parts No.	Description	Q'ty
19-1x	BA482455	COM Switch P.C. Board Comp. (RD-525)	1
19-SW1	ES482872	Push Switch UEG62BP, without knob	1
19-2	EZ472490	COM Switch Mt. Part	1
19-3	ZW202331	Screw, round head 2.6x4	2
19-R101 to 104	ER329308	Resistor, Insulator Type Carbon RD1/4 47k(J)	4
19-R105, 6	ER213715	Carbon RD1/4 100k(J)	2

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

FIG. 20 PHOTO OF COM MECHANISM BLOCK

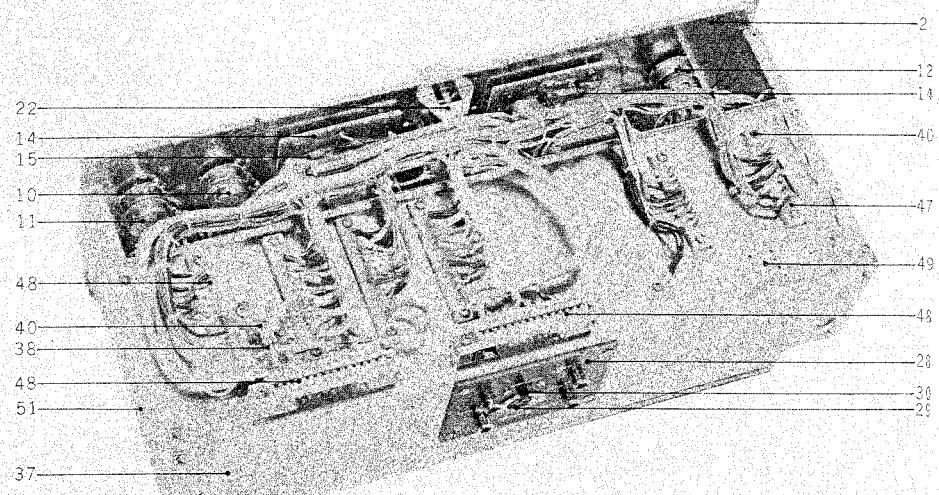
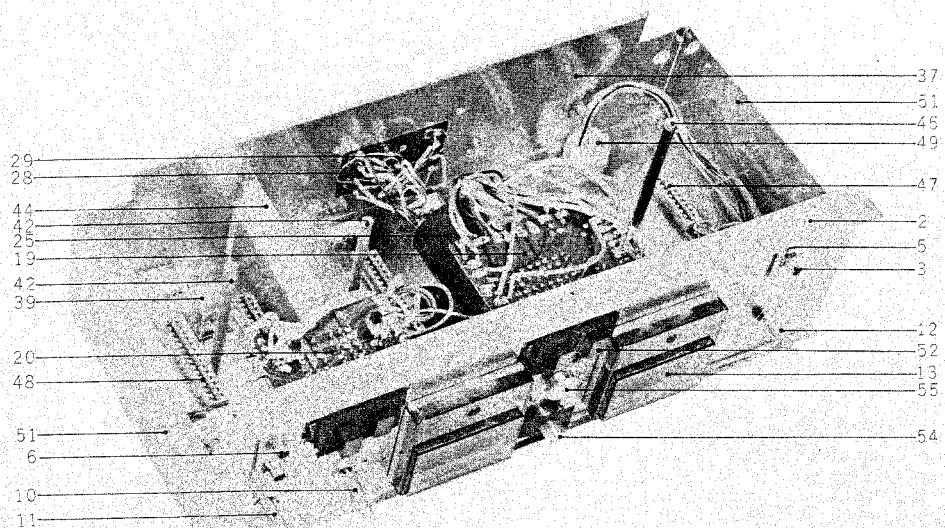


COM MECHANISM BLOCK

Ref. No.	Parts No.	Description	Schematic No.	Q'ty	Ref. No.	Parts No.	Description	Schematic No.	Q'ty
20-1x	BM482466	COM Mechanism Block Comp.	KH-RDG	1	20-16x	ZW269785	M2.3 Toothed Lock Washer		6
20-2	EZ262181	COM Motor Frame	RD-591	1	20-17	ZW201914	Screw, binding head 2.3x5		4
20-3	EZ262091	COM Prop C	RD-590	3	20-18	MS252887	Main Gear Shaft, w/gear	RD-585	1
20-4x	ZW200362	Screw, countersunk head 3x5 D=5		3	20-19x	ZW383332	Washer (PBP)D3.1x5x0.1t		2
20-5	BM250514	Micro Motor FM-36K 108700	53-1-1	1	20-20	EZ383130	Clutch A, w/pin	RD-A509	1
20-6	EZ262023	COM Worm-Gear B	RD-597	1	20-21x	ZW313470	Set Screw 3x6.5(cup)		2
20-7	EZ262067	COM Shield	RD-593	1	20-22	EZ262080	COM Prop B	RD-578	3
20-8	ZW201914	Screw, binding head 2.3x5		4	20-23	EZ262102	COM Switch Base	RD-577	1
20-9	EA383128	Terminal P.C. Board	RD-A512	1	20-24	EV326160	Dual-axial 2-throw/Vol. V24L5G(SP) N12.5R-100KK!	3-6-1-5	1
20-10	EC228745	Ceramic/C. YZ 0.1μF(Z) 50WV	24-5-30	3	20-25	EZ383141	Clutch B	RD-A510	1
20-11	ER230185	Solid/R. RC1/4W 33(K)	35-5-1	2	20-26	ZW383152	Switch Insulator Washer	RD-A511	1
20-12	EZ2218147	Gear Frame	RD-582	1	20-27	ES250020	Micro Switch S-1AL	2-5-1-9	2
20-13	MS222693	Sub Gear Shaft, w/gear	RD-584	1	20-28	ZW383343	Screw, binding head 2.3x22		2
20-14x	ZW259334	Washer (Polyslider) D2.05x3.5x0.25t		2	20-29	ZW273690	M2.3 Nut		2
20-15	EZ228857	Center Plate	RD-583	2	20-30	MH473488	COM Mt. Prop	KH-5005	3
					20-31x	EZ262056	COM Rubber Shield	RD-595	1

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

FIG. 21 PHOTO OF AMP. ASSEMBLY BLOCK



AMP. ASSEMBLY BLOCK

Ref. No.	Parts No.	Description	Schematic No.	Q'ty
AMP. FRAME BLOCK				
21-1x	BZ482444	Amp. Frame Block Comp.	KH	1
21-2	EZ472577	Amp. Chassis A	KH-5001	1
21-3	EJ442078	Mic. Jack 3PMJ4	31-2-36	1
21-4x	ZW482927	Washer (SPC)D9.2x14x0.5t		1
21-5	ZW375153	E Jack Nut		3
21-6	EJ433844	Mic. Jack 2PMJ4	31-2-35	2
21-7x	EZ225180	Nylon Collar, Jack	LD-520	2
21-8x	ZW492884	Washer (Fiber)D9.2x14x0.5t		2
21-9x	ER213647	Carbon/R. RD1/4 10k(J) (Insu. type)	35-9-5	2
21-10	EV472588	Dual-axial Double/Vol. D24N 50k Ax2 (Line)	36-3-38	1
21-11	EV472590	Dual-axial Double/Vol. D24N 100k Ax2 (Mic)	36-3-39	1
21-12	EV403661	Double/Vol. (Frictional) DJ20A 10k Ax2 (Line out)	36-3-27	1
21-13	EM472612	VU Meter KL-250B-13	46-1-56	2
21-14	EA472601	Meter P.C. Board	KH-5007	2
21-15	EL295312	No. 2 Lamp 8V 0.2A	28-2-8	4
21-16x	ZG317968	Angle Spring	MR-14	6
21-17x	ZW424495	Washer (SPC)D3.1x8x1t		2
21-18x	ZW348107	M3 Iso Nut		6
21-19	BA482477	Track Selector P.C. Board Comp. (KH-5011)		1
21-20	BA482488	Monitor Switch P.C. Board Comp. (KH-5012)		1
21-21x	ZW371856	Iso Screw, binding head 3x5		2
21-22	BA482455	COM Switch P.C. Board Comp. (RD-525)		1
21-23x	ZW323728	Screw, binding head 3x5		2
21-24x	SZ510197	COM Insulator Plate	KH-5029	1
21-25	BM482466	COM Mechanism Block Comp. KH, RDG		1
21-26x	ZW273756	M3 Nut		3

JACK PLATE BLOCK

21-27x	BZ482534	Jack Plate Block Comp.	KH	1
21-28	EJ452046	RDG Line Jack Plate	31-5-43	1
21-29	EJ378990	5P Din-Jack S-I 8123	31-1-1	1
21-30	ES379045	6P Slide Switch SJ-0282	25-3-36	1
21-31x	ZW410231	Screw, pan head 2.6x5		2
21-32x	ZW273778	M3 Earth Lug		1
21-33x	ER324685	Carbon/R. RD1/4 33k(J) (Insu. type)	35-9-5	2
21-34x	ER213873	Carbon/R. RD1/4 150k(J) (Insu. type)	35-9-5	2
21-35x	ER345712	Carbon/R. RD1/4 22k(J) (Insu. type)	35-9-5	2
21-36x	ER213647	Carbon/R. RD1/4 10k(J) (Insu. type)	35-9-5	2

AMP. ASSEMBLY BLOCK

21-37	UM472522	Amp. Chassis B	KH-5002	1
21-38	EA472533	Rec. Relay P.C. Board	KH-5009	1
21-39	EP383321	Relay TECK-36 DC22V 1000	47-2-20	1
21-40	ZW447772	Tapping Screw 3x6(BR)		23
21-41x	ZW273778	M3 Earth Lug		4
21-42	MH472544	P.C. Board Retaining Prop	KH-5008	2
21-43x	ZW417150	Screw, pan head 4x6		2
21-44	EZ472555	Rec. Amp. Shield	KH-5017	1
21-45	MH472566	OSC. Retaining Prop	KH-5022	1
21-46x	ZW413155	Screw, binding head 3x6		1
21-47	EJ482793	10P Multi-Jack 3250-010-001	31-4-21	2
21-48	EJ368785	14P Multi-Jack 3250-014-001	31-4-14	6
21-49	EJ300508	9P Mate-N-Lock Plug Housing 1-480274-0	52-1-7	1
21-50x	EJ373634	Socket Contact 61115-1	52-1-1	7
21-51	EZ473771	Side Frame	KH-5003	2
21-52	SK474107	Push Knob	KH-5020	4
21-53x	EZ473782	Card Retainer A	KH-5018	1
21-54	SK436252	Knob B	KF-2019	1
21-55	SK493018	COM Knob	KH-5028	1

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

FIG. 22 PHOTO OF FINAL ASSEMBLY BLOCK



FINAL ASSEMBLY BLOCK

Ref. No.	Parts No.	Description	Schematic No.	Q'ty	Ref. No.	Parts No.	Description	Schematic No.	Q'ty					
MECH. PANEL BLOCK														
22-1x	BZ482264	Mech. Panel Block Comp.	KH	1	22-34x	SZ382230	Ventilator (upper)	RD-A 404	1					
22-2	SP473556	Mech. Panel	KH-6001	1	22-35x	ZW439661	Screw, truss head 3x14 (without groove)	4						
22-3	SE486088	Counter Escutcheon B	KD-6008	1	22-36x	ZW273756	M3 Nut	4						
22-4	SZ473567	Reel Protector	KH-6003	2	22-37x	SZ382241	Ventilator Retaining Plate	RD-A 405	1					
22-5x	ZW417137	Screw, binding head 3x4		12	22-38x	ZW200610	Tapping Screw #1 4x12(truss)	1						
22-6	SC473578	Head Cover Base	KH-6004	1	22-39	SZ377190	LM Rubber Foot	LM-404	4					
22-7	SM473591	Pause Name Plate	KH-6009	1	22-40x	ZW419646	Washer (SPC)D4.5x9.8x0.5t	4						
22-8	SZ409320	Illumination Escutcheon (orange)	61-5023	1	22-41x	ZW403571	Wood Screw, round head 4.5x20	4						
22-9x	SZ473580	Head Cover Rotation Base	KH-6005	1	FINAL ASSEMBLY BLOCK									
22-10x	ZW413741	Screw, binding head 3x8		2	22-42	SP473703	Sash A (right)	KH-6023A	1					
22-11x	SZ492030	Ball Case	KH-6034	1	22-43	SP473714	Sash B (left)	KH-6023B	1					
22-12x	MV269965	Steel Ball D4		1	22-44x	ZW200384	Screw, countersunk head 3x6	2						
22-13x	ZG249107	Ball Retaining Spring	RD-632	1	22-45	ZW408418	Panel Washer	KD-6029	2					
22-14x	ZW383883	Set Screw 5x4(flat)		1	22-46	ZW203084	Screw, oval countersunk head 3x8	2						
22-15	EZ426780	Illumination Escutcheon (red)	61-5023	1	22-47x	ZW201150	Screw, truss head 3x6 (black)	2						
22-16	SC473602	Head Cover	KH-6008	1	22-48	SZ483737	Panel Washer B (black)	KD-6029	2					
22-17	SM473613	Head Cover Plate	KH-6024	1	22-49	ZW482815	Screw, oval countersunk head 3x8	2						
22-18x	MS473624	Head Cover Shaft	KH-6007	1	22-50x	ZW259806	Washer (SPC)D4.5x12.8x1t	6						
22-19x	SZ473635	Rolling Sleeve	KH-6006	1	22-51x	ZW487833	Tapping Screw #1 4x50(truss)	4						
22-20x	ZW434160	Set Screw, hexagon socket 3x3(cup)		2	22-52x	SZ377190	LM Rubber Foot	LM-404	4					
22-21x	ZW482657	Set Screw, hexagon socket 4x3(cup)		1	22-53x	ZW419646	Washer (SPC)D4.5x9.8x0.5t	4						
22-22x	SZ487877	Stopper Rubber	KH-6033	2	22-54x	ZW434283	Tapping Screw #1 4x30(truss)	4						
22-23x	SZ473646	Stopper Rubber	KH-1020	2	22-55x	ZW200621	Tapping Screw #1 4x25(truss)	2						
AMP. PANEL BLOCK														
22-24x	BZ482253	Amp. Panel Block Comp.	KH	1	22-56	SK425158	Pinch Roller Cap	MS-1020	1					
22-25	SP473804	Amp. Panel	KH-6018	1	22-57	MP424023	Pinch Roller (KD)	KD-1084	1					
22-26	SC473815	VU Meter Cover	KH-6020	2	22-58	SK474063	Volume Knob B	KH-1011	3					
22-27x	ZW487866	Screw, round head 2.6x6		6	22-59x	ZW487844	Set Screw, hexagon socket 3x7(cup)	3						
22-28	EZ397890	Rec. Button Escutcheon	KD-5003	1	22-60	SK474074	Volume Knob A	KH-1012	3					
22-29	SZ492941	COM Guide	KH-6036	1	22-61x	ZW433001	Set Screw, hexagon socket 3x5(cup)	3						
22-30	SZ436151	Lamp Escutcheon (red)	DF-6025	1	22-62x	EZ436217	Collar, Jack	MC-1006	3					
CASE BLOCK														
22-31	BC482242	Case Block Comp.	KH	1	22-63x	SZ473501	Ventilator Panel (back)	KH-1025	1					
22-32x	SZ439694	Case Corner Angle	KD-6031	2	22-64x	ZW324448	Tapping Screw #1 3x10(truss)	4						
22-33x	ZW447963	Tapping Screw #1 3x10(truss)		8	22-65x	EF444183	Fuse 1.5A 250V	39-1-1	1					
					22-66x	EF277413	Fuse ST-2 2A	39-1-2	1					
					22-67x	EF338387	Fuse ST-2 1.5A	39-1-3	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.
BA482332	11-1x	EC220994	13-C20	EC432810	14-C12	EO243977	9-L1	ER212883	12-R10 to 12
BA482365	12-1x	EC220994	13-C24	EC434081	7-3	EO243977	9-L4	ER212883	12-R12
BA482387	6-19x	EC220994	14-C9	EC438524	11-C211	EO262484	14-L1	ER212883	12-R15
BA482387	9-1x	EC220994	14-C17	EC442080	15-C4	EO383365	15-T1	ER212883	12-R17,8
BA482398	6-3x	EC228745	20-10	EC450055	12-C12,3,4	EO403446	10-L1	ER212883	12-R21
BA482398	6-25x	EC250604	13-C10	EC450055	14-C18	EO424888	17-L2,3	ER212883	12-R23,4
BA482455	19-1x	EC250661	11-C206	EC450055	14-C20	EO458932	9-L2,3	ER212883	12-R18
BA482455	21-22	EC250841	14-C8	EC450281	16-C204	EO495527	17-L1	ER212883	12-R27
BA482477	17-1x	EC250841	15-C2, 3	EC450281	11-C257	EO495527	17-L4	ER212883	12-R24,5
BA482477	21-19	EC250885	12-C20	EC450527	12-C1,2	EP344136	1-62	ER212883	12-R29 to 31
BA482488	18-1x	EC250975	9-C5	EC456041	12-C3 to 5	EP344136	12-RL1 to 6	ER212883	12-R34
BA482488	21-20	EC250975	9-C10	EC487394	13-C5	EP344136	12-RL1 to 6	ER212883	12-R35,6
BA482490	13-1x	EC251087	12-C14	EC487394	13-C17	EP344136	15-RL2	ER212883	12-R39,40
BA482501	14-1x	EC251190	11-C202	ED219464	12-D5 to 9	EP383321	15-RL1	ER212883	12-R40
BA482512	15-1x	EC251190	12-C13	ED219464	12-D11 to 14	EP383321	17-RL1	ER212883	12-R44
BA482523	16-1x	EC273464	7-25	ED219464	12-D18 to 21	EP383321	21-39	ER212883	12-R46
BA482578	7-14	EC273464	8-58	ED219464	12-D23	EP398610	8-2	ER212883	12-R50,1
BA495808	10-1x	EC273464	12-C6	ED219464	12-D26,7	EP441990	8-10	ER212883	12-R54
BA515520	12-2x	EC273464	12-C16	ED219464	14-D1,2	EP804813	1-54	ER212883	14-R7
BC473927	4-5	EC290564	14-C13	ED219464	16-D202 to 8	ER211465	6-30	ER212883	14-R12
BC482242	22-31	EC290564	14-C15	ED224526	1-71	ER211465	11-R224,5	ER212883	15-R5
BH482310	1-1x	EC290586	13-C3	ED224526	6-33	ER211465	12-R1	ER212883	16-R222
BL482422	4-1x	EC290586	14-C3	ED224526	11-D201,2	ER211465	12-R4	ER212883	16-R225
BM250514	20-5	EC302253	13-C19	ED224526	11-D204	ER211465	12-R8	ER212883	16-R241
BM314741	3-1	EC308711	12-C7	ED224526	12-D1 to 4	ER211465	12-R13	ER212883	16-R244
BM482286	2-1x	EC313108	16-C202	ED224526	12-D5	ER211465	12-R16	ER213030	11-R221
BM482466	20-1x	EC316091	7-17	ED224526	12-D10	ER211465	12-R19	ER213030	12-R37,8
BM482466	21-25	EC320040	13-C18	ED224526	12-D13	ER211465	12-R22	ER213030	12-R42
BP482343	7-1x	EC320051	11-C205	ED224526	12-D15 to 17	ER211465	12-R25	ER213030	13-R17,8
BR482400	3-2x	EC320051	13-C14	ED224526	12-D20	ER211465	12-R28	ER213030	16-R217,8
BR482411	3-3x	EC320051	13-C23	ED224526	12-D22	ER211465	12-R32	ER213030	16-R229,30
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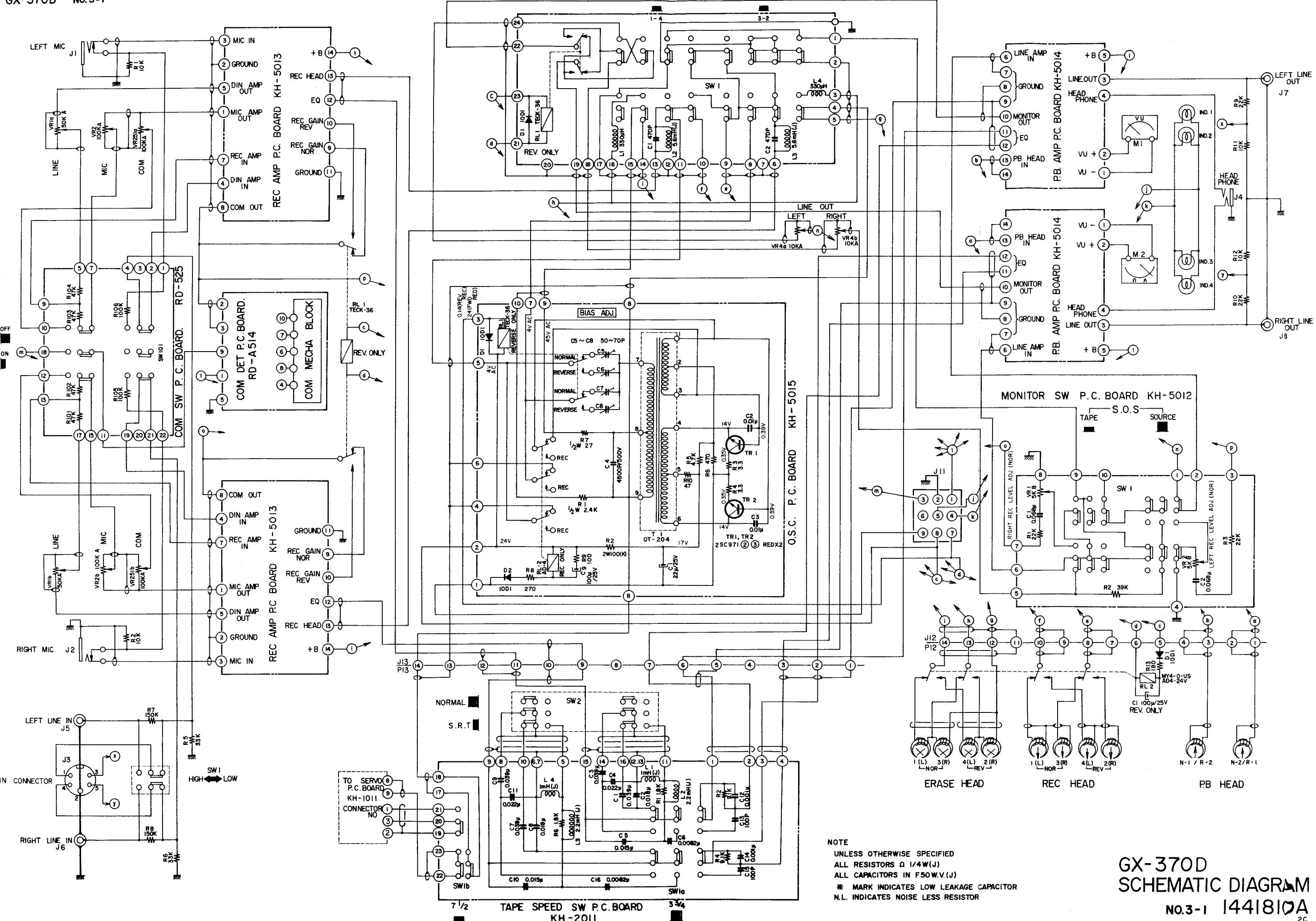
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ZW257477 8-15	ZW371856 7-34x	ZW439514 8-56							
ZW259334 20-14x	ZW371856 21-21x	ZW439661 22-35x							
ZW259413 6-22x	ZW374128 8-130x	ZW440291 7-35x							
ZW259648 1-37	ZW375963 1-33	ZW442585 6-17							
ZW259683 8-135	ZW383152 20-26	ZW444273 5-12							
ZW259806 22-50x	ZW383332 20-19x	ZW444273 8-108x							
ZW260188 1-44	ZW383343 20-28	ZW447772 21-40							
ZW260256 4-10	ZW383883 22-14x	ZW447761 8-131x							
ZW269785 20-16x	ZW391476 2-7x	ZW447963 22-33x							
ZW270088 1-79	ZW392940 11-3	ZW461935 1-65							
ZW270088 3-9	ZW397157 8-91	ZW462194 7-31x							
ZW270088 6-39	ZW398125 2-5	ZW468112 7-11							
ZW270088 6-46	ZW398158 2-14	ZW472274 6-14							
ZW270088 8-8x	ZW403222 3-20	ZW472274 6-24							
ZW270088 8-17x	ZW403525 2-13	ZW472274 7-5							
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ZW270088 8-136x	ZW403571 22-41x	ZW477876 1-9							
ZW270101 1-51	ZW408418 22-45	ZW482545 8-70							
ZW270101 6-7	ZW410231 21-31x	ZW482635 5-5							
ZW270101 8-19x	ZW413155 1-23	ZW482657 22-21x							
ZW270101 8-71	ZW413155 1-60	ZW482736 1-15							
ZW270101 8-88x	ZW413155 2-20	ZW482758 1-38							
ZW270134 1-48	ZW413155 8-93	ZW482815 22-49							
ZW273363 8-89	ZW413155 8-102	ZW482927 21-4x							
ZW273633 8-142	ZW413155 10-3x	ZW484828 8-143							
ZW273690 20-29	ZW413155 11-7x	ZW487833 22-51x							
ZW273756 1-80	ZW413155 11-11x	ZW487844 22-59x							
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ZW273756 11-5	ZW413155 21-46x	ZW487912 4-13							
ZW273756 15-4x	ZW413188 3-22x	ZW490228 7-13							
ZW273756 16-5x	ZW413188 8-37x	ZW490228 7-20							

SECTION 3

SCHEMATIC DIAGRAM

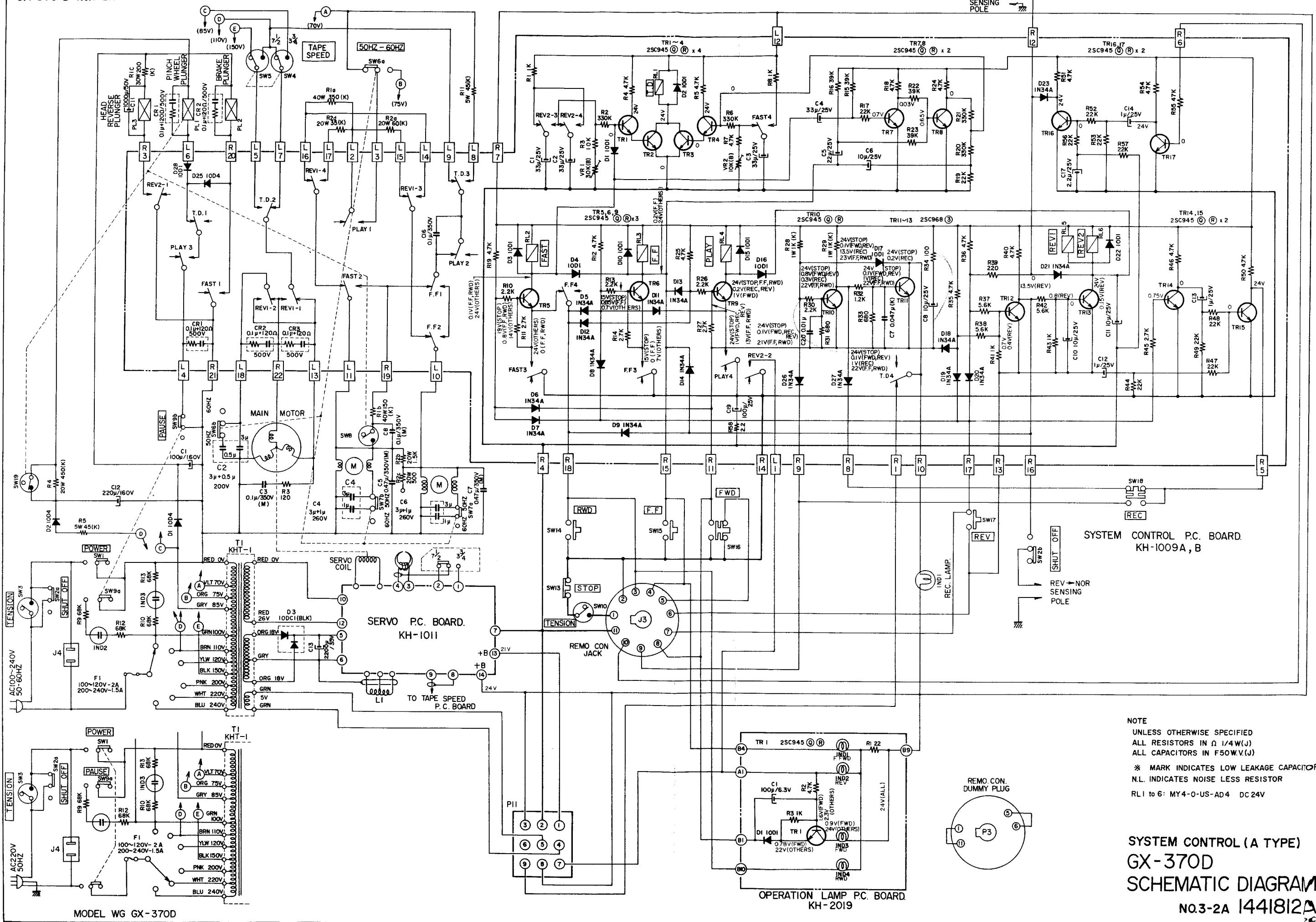
GX-370D SCHEMATIC DIAGRAM

TRACK SELECTOR P. C. BOARD KH - 5



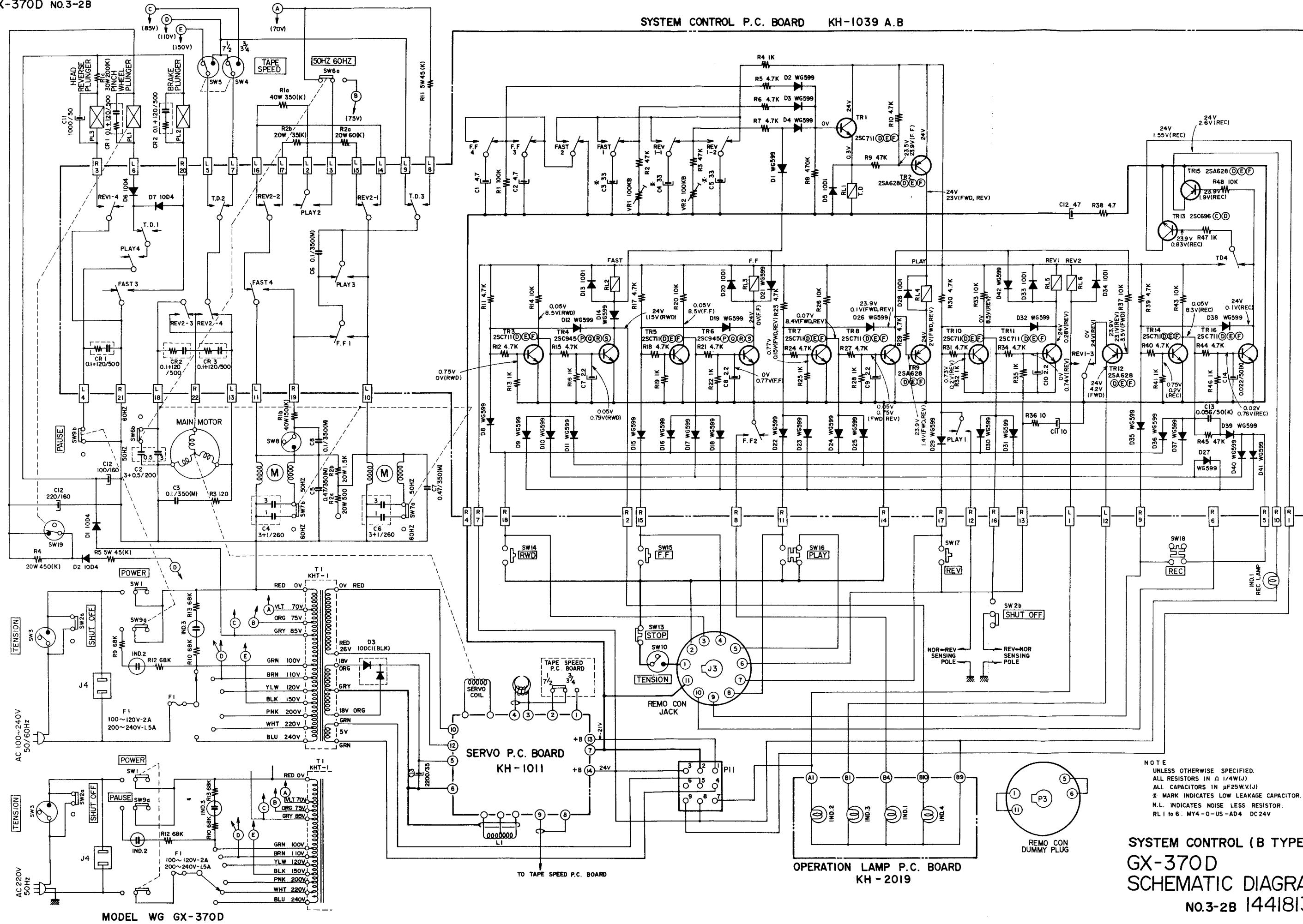
NOTE
UNLESS OTHERWISE SPECIFIED
ALL RESISTORS Ω 1/4W(J)
ALL CAPACITORS IN F50W.V.(J)
* MARK INDICATES LOW LEAKAGE CAPACITOR
N.L. INDICATES NOISE LESS RESISTOR

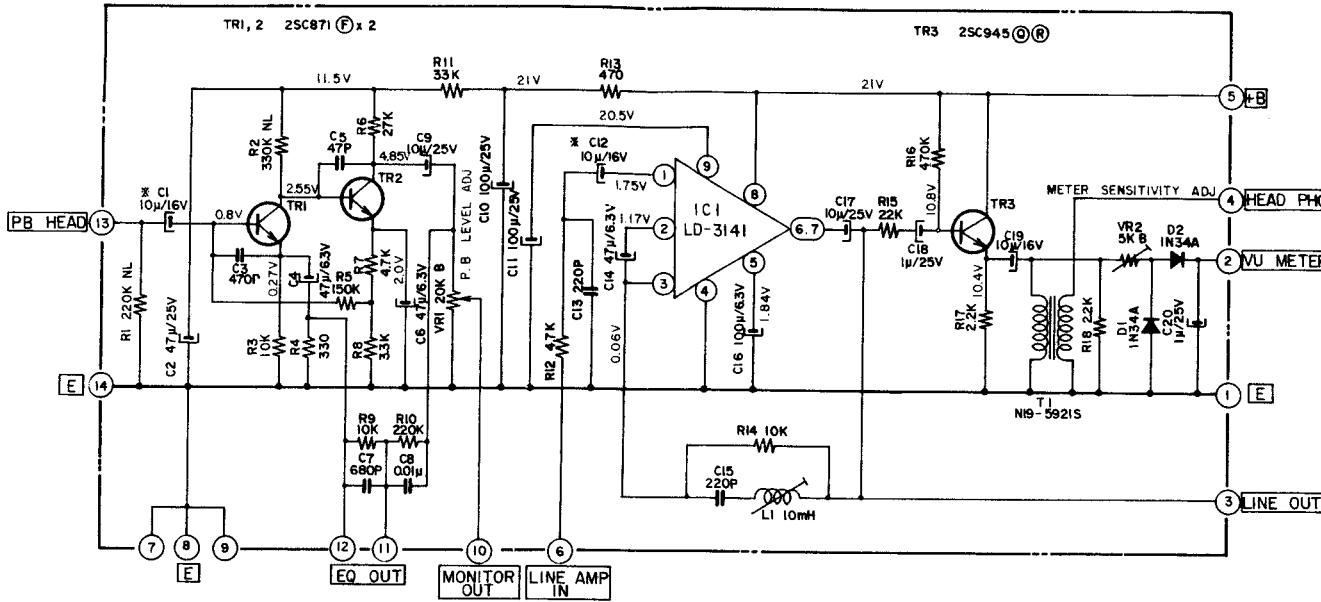
**GX-370D
SCHEMATIC DIAGRAM
NO.3-1 1441810A**



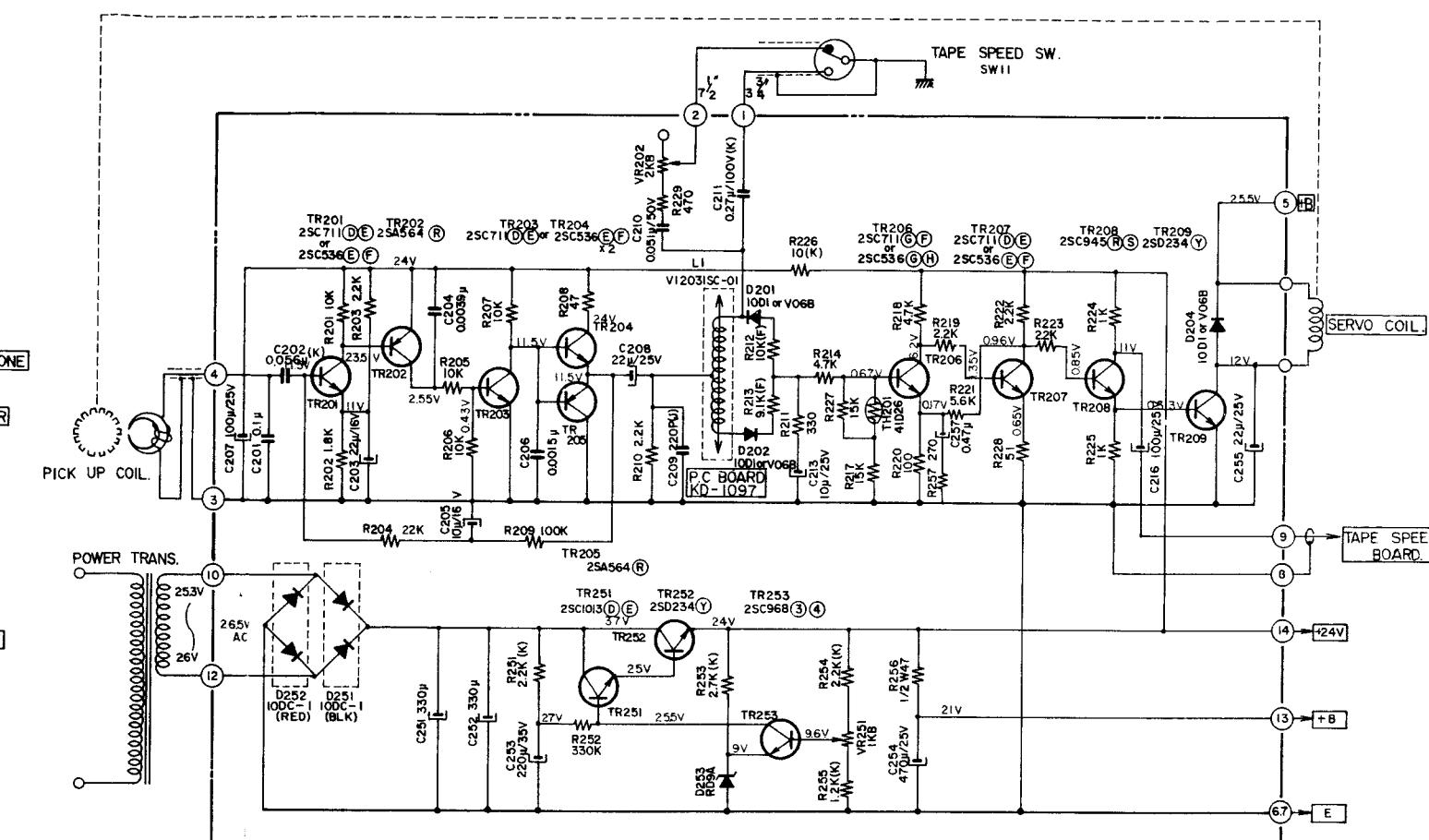
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SYSTEM CONTROL P.C. BOARD KH-1039 A.B

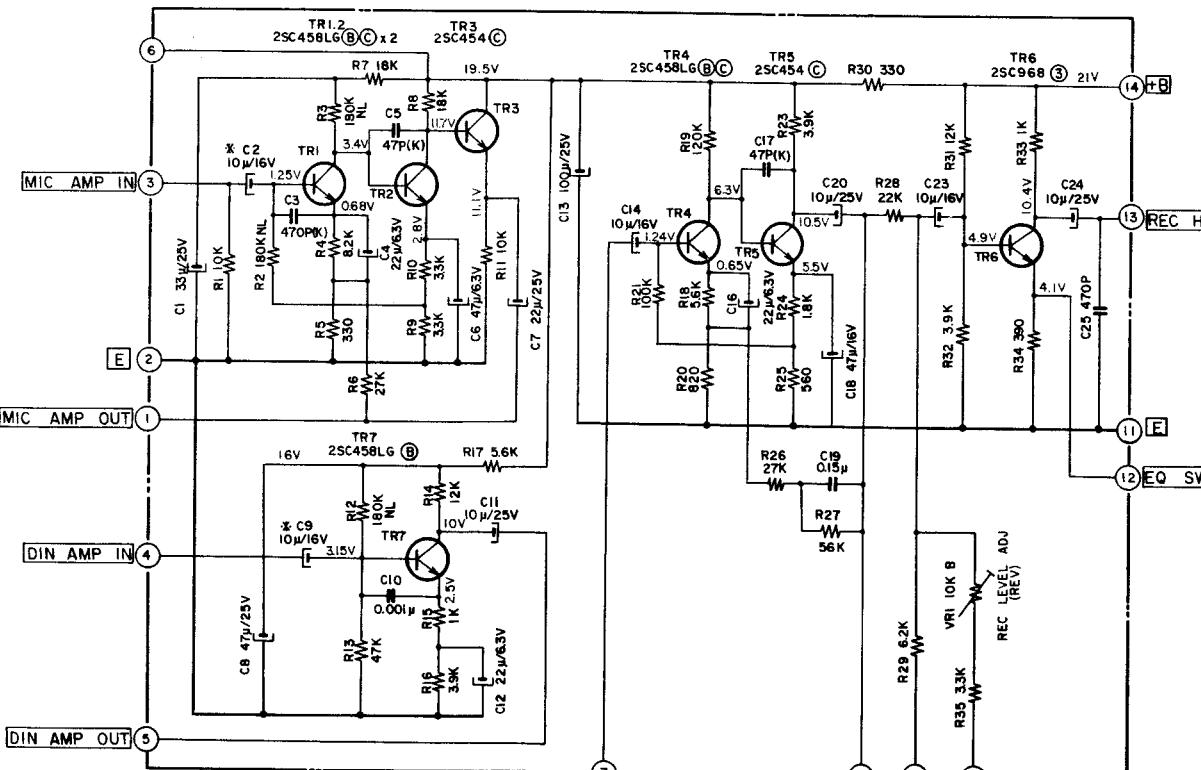




P. B. AMP P. C. BORAD KH-5014

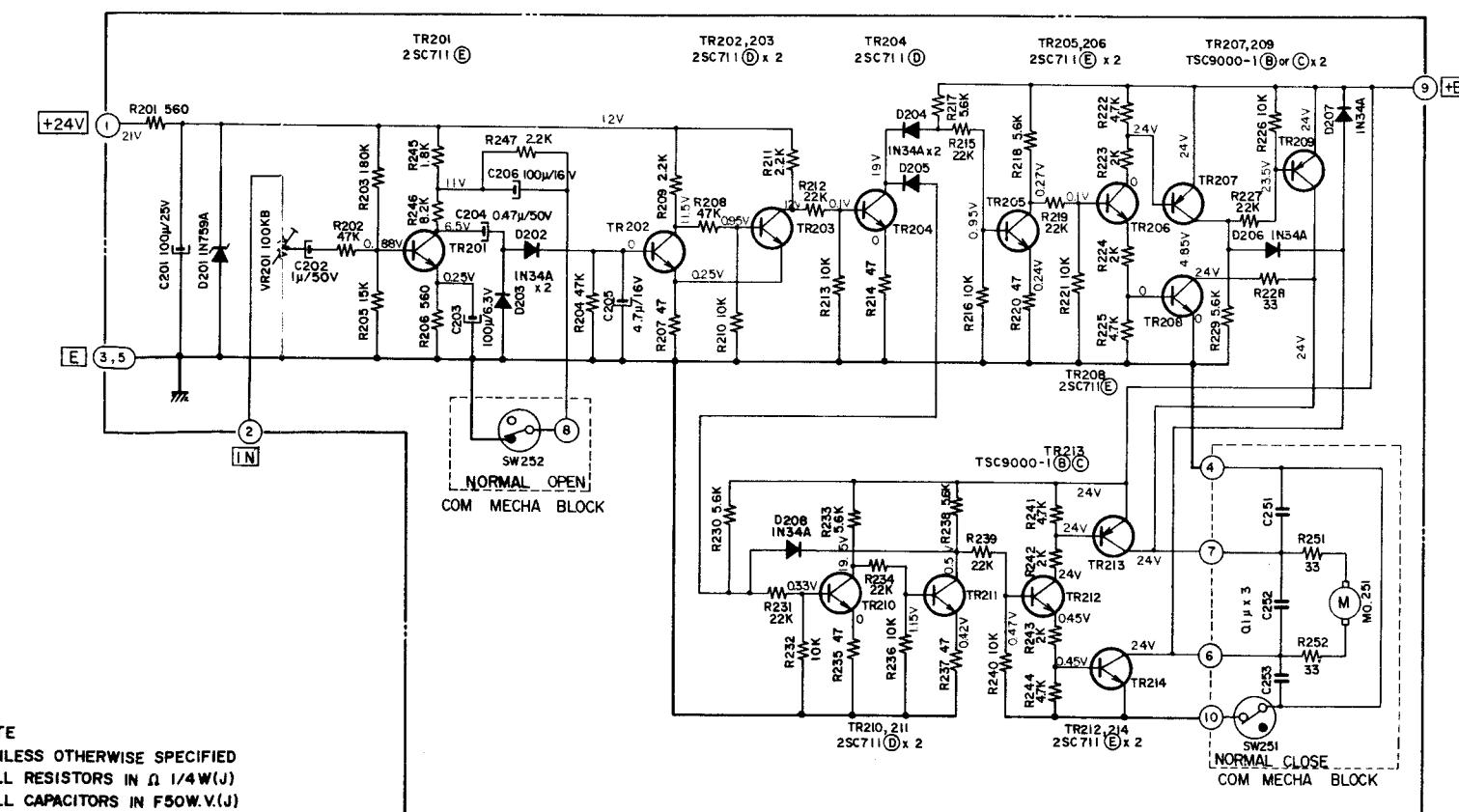


SERVO P. C. BOARD KH-101



REC AMP P.C. BOARD KH-5

NOTE
UNLESS OTHERWISE SPECIFIED
ALL RESISTORS IN Ω 1/4W(J)
ALL CAPACITORS IN F50W.V.(J)
* MARK INDICATES LOW LEAKAGE CAPACITANCE
N.L. INDICATES NOISE LESS RESISTOR



COM DET P. C. BOARD RD-A5I

**GX-370D
SCHEMATIC DIAGRAM
NO.3-3 144181 IA**