



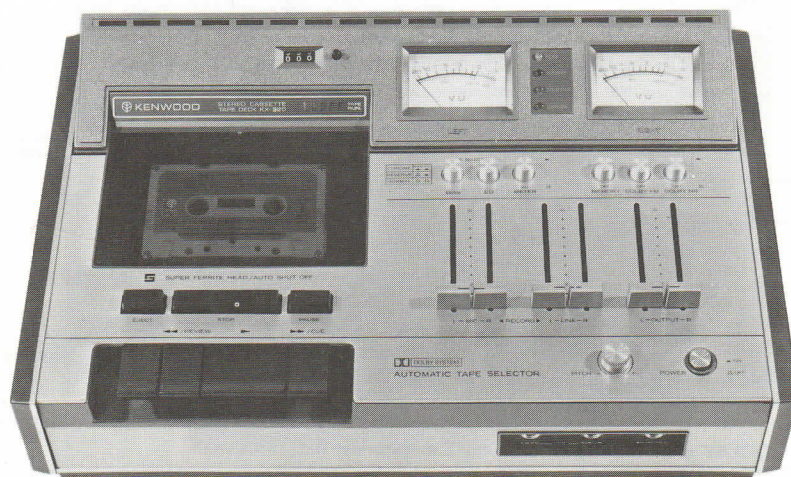
KENWOOD
HI/FI STEREO COMPONENTS

SERVICE MANUAL

KX-920

CAUTION:

The KX-920 Service Manual describes the modified parts of the model KX-720. For example, when repairing or adjusting except the pitch control or the VU-peak meter, refer to the KX-720 manual.

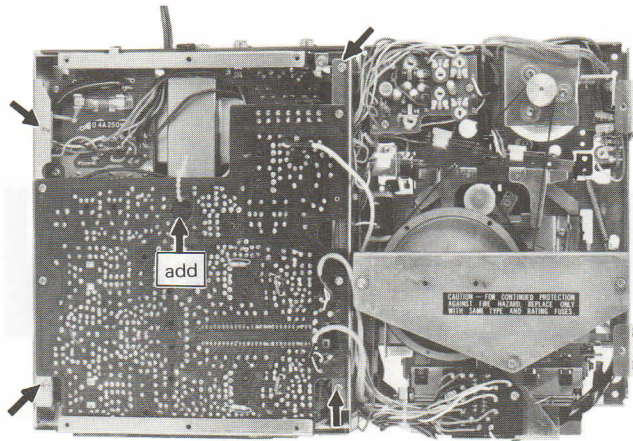


STEREO CASSETTE TAPE DECK

CAUTION

For DISASSEMBLY on page 6 in KX-720 Service Manual, correct "the 4 red screws" to "the 5 red screws" in the sentence of ②.

- ② When adjustment of the PC board take off 5 red screws.



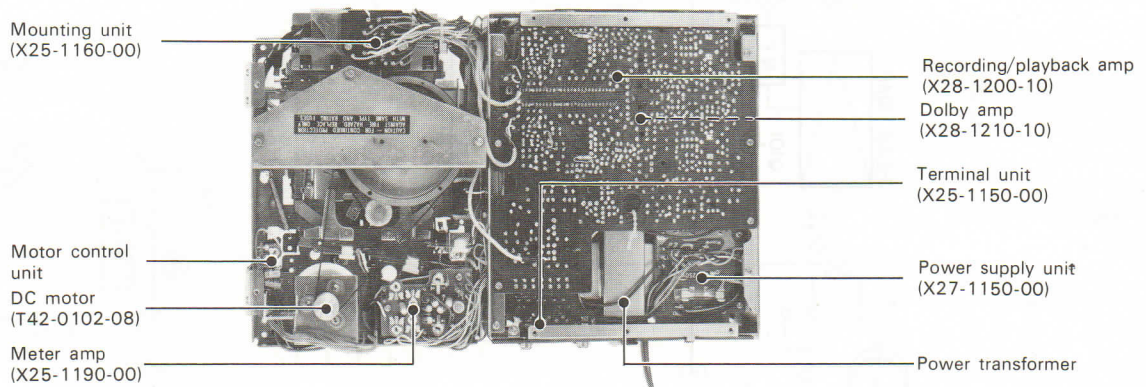
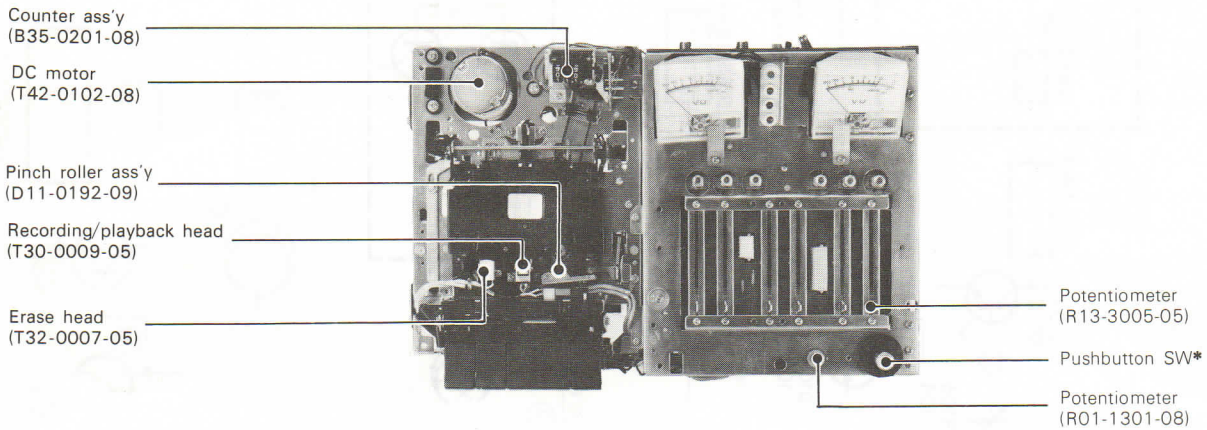
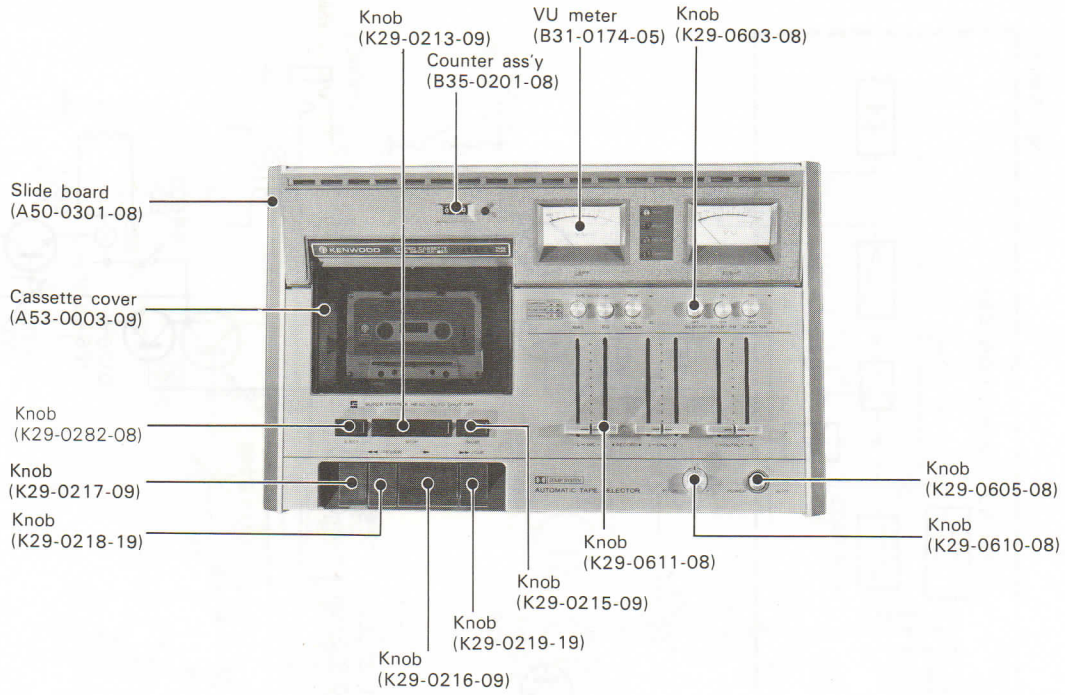
Note:

The products are subject to modification in components and circuits in different countries and regions. This is because each product must be used under the best condition. This manual provides information of modification based on the standard in the U.S., for the convenience of ordering associated components and parts.

U.S.A.	K
Canada	P
PX	U
Australia	X
Europe	W
England	T
Scandinavia	L
South Africa	S
General Export	M

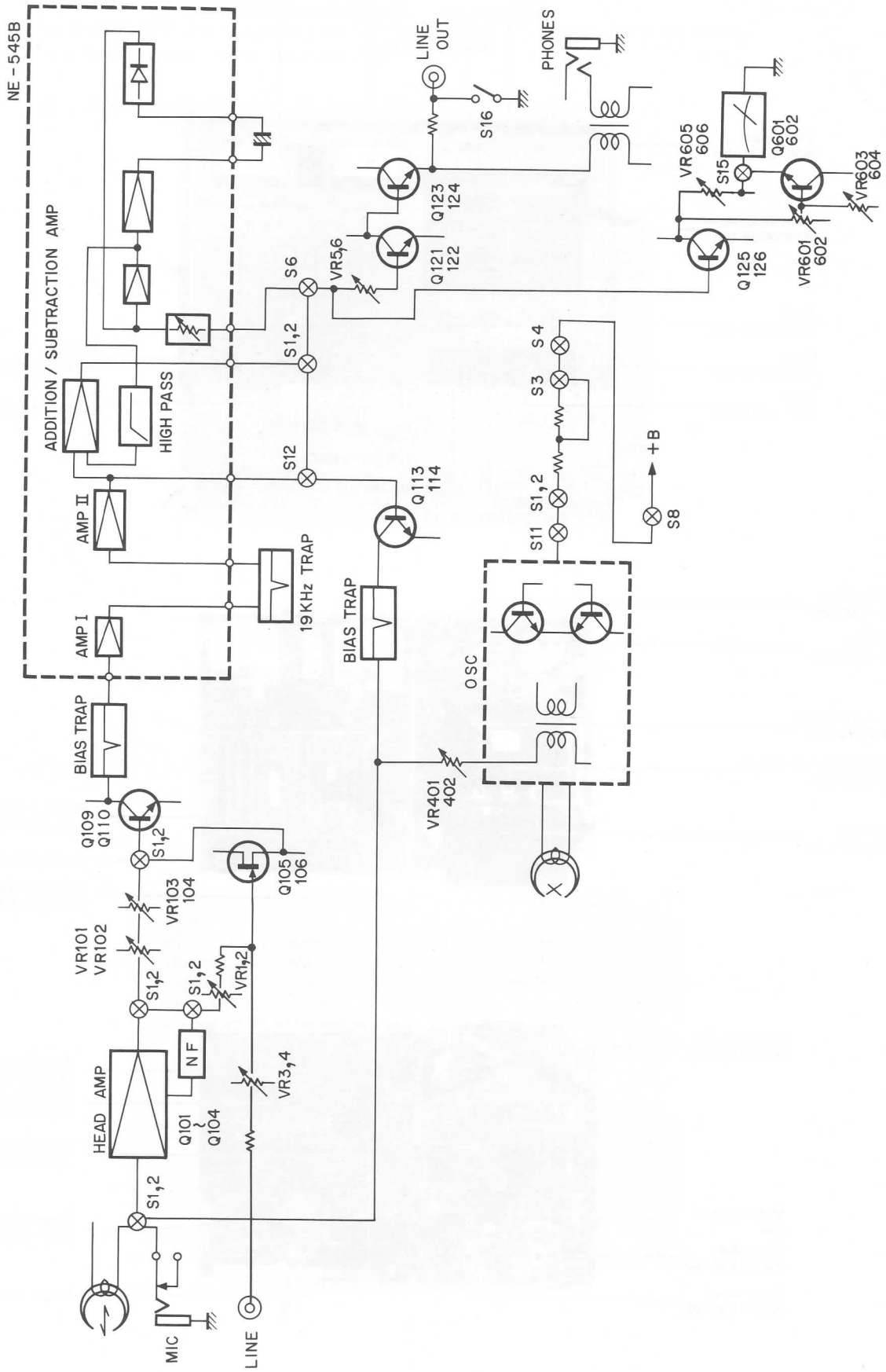
DOLBY is a Trade Mark of Dolby Laboratories, Inc.

EXTERNAL AND INTERNAL VIEW

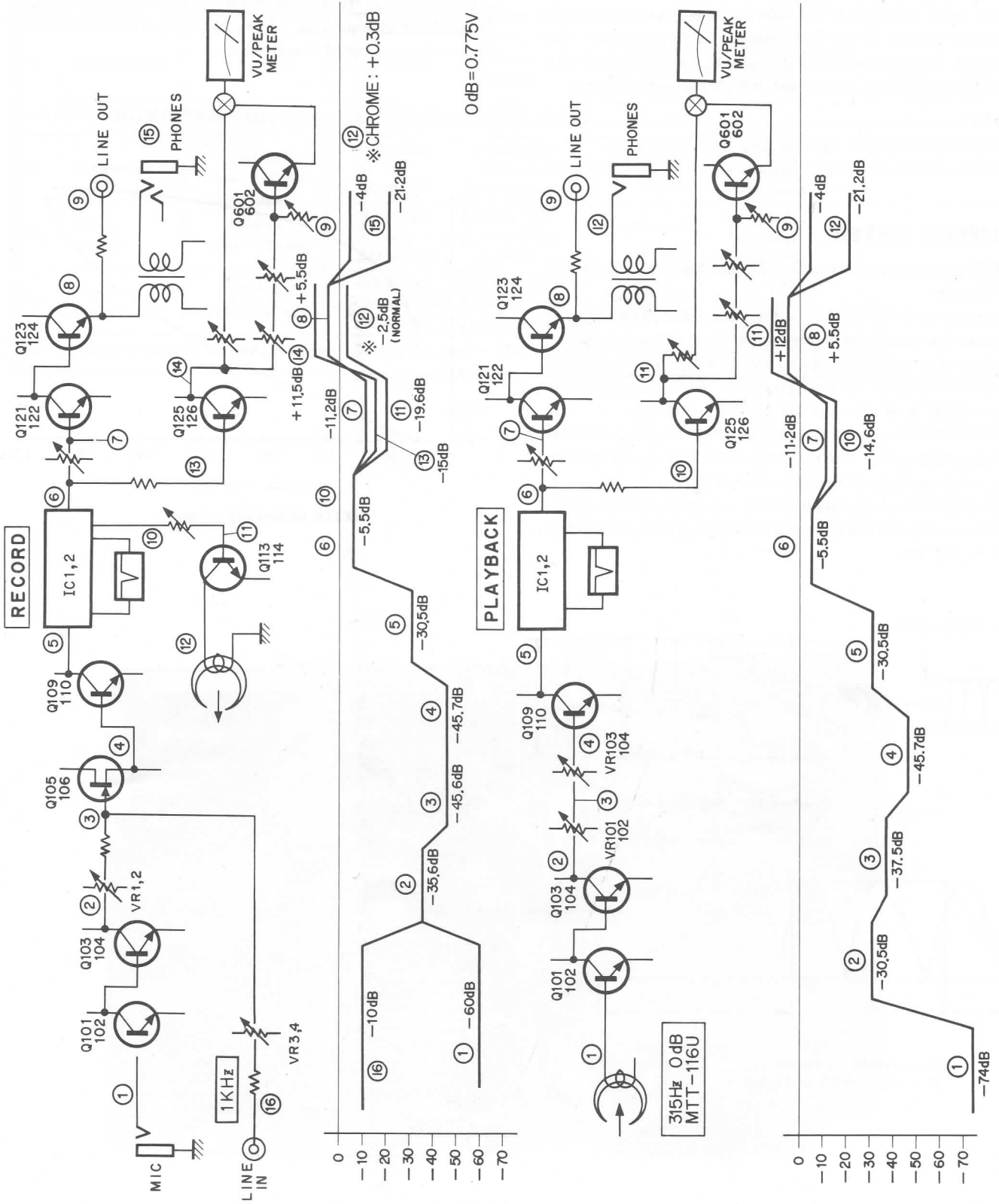


* Refer to Destinations' Parts List.

BLOCK DIAGRAM



LEVEL DIAGRAM



CIRCUIT DESCRIPTIONS

PITCH CONTROL

Operation of the pitch control varies the tape speed within $\pm 3\%$, which corresponds to a variable pitch range of about a semitone. When playing musical instruments along with music tape, the pitch of the tape can therefore be precisely matched to that of the instrumental accompaniment. For example, the pitch control allows you to match the pitch of a tape to a piano, an instrument that is not readily tuned.

NOTE:

The pitch control can operate only during playback.

VU/PEAK METER

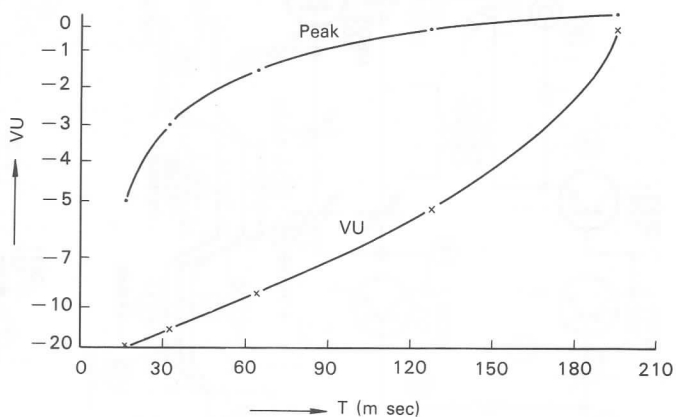
The VU-meter previously used indicated the total volume and signal level.

In contrast with the VU-meter, the Peak-meter is designed to indicate the maximum signal value, so that the precise indication of a rapidly increasing signal, which was not traced with the VU-meter, is now possible. When recording, the input signal level can now be correctly checked.

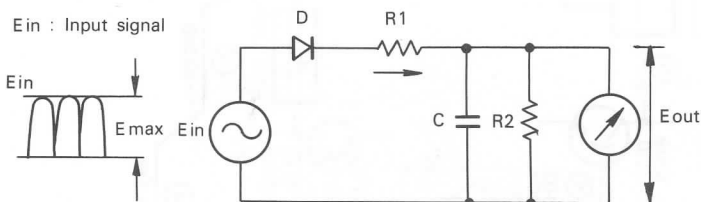
The Peak-meter is required to be very high response in order to follow fast swing. The rise time of the Peak-meter is 10 m sec., whereas that of the VU-meter is 300 m sec.

Fast movement of the meter pointer would be very difficult to follow visually and therefore the fall time has been delayed by 1.5 ~ 2.0 sec.

When the input signal E_{in} is supplied to the Peak-meter circuit, the signal passes through $R1$ and charges C . $R1$ is small value and therefore the meter swings rapidly. When the input signal is not supplied, the changed current of C flows through $R2$ and therefore the fall time $T_f = C \cdot R2$. T_f has been designed as 1.5 ~ 2.0 secs, which makes the Peak-meter indication lower slowly.

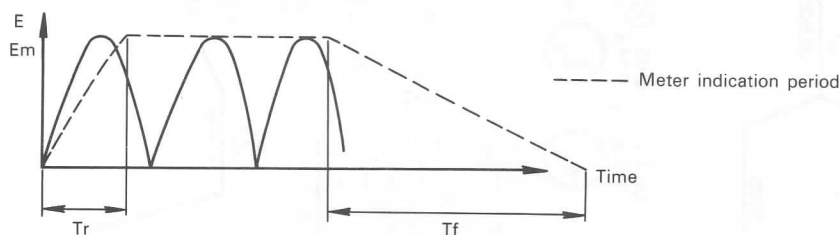


[METER RESPONSE CURVE]



Rise time T_r is determined by $CR1$.

Fall time T_f is determined by $CR2$.



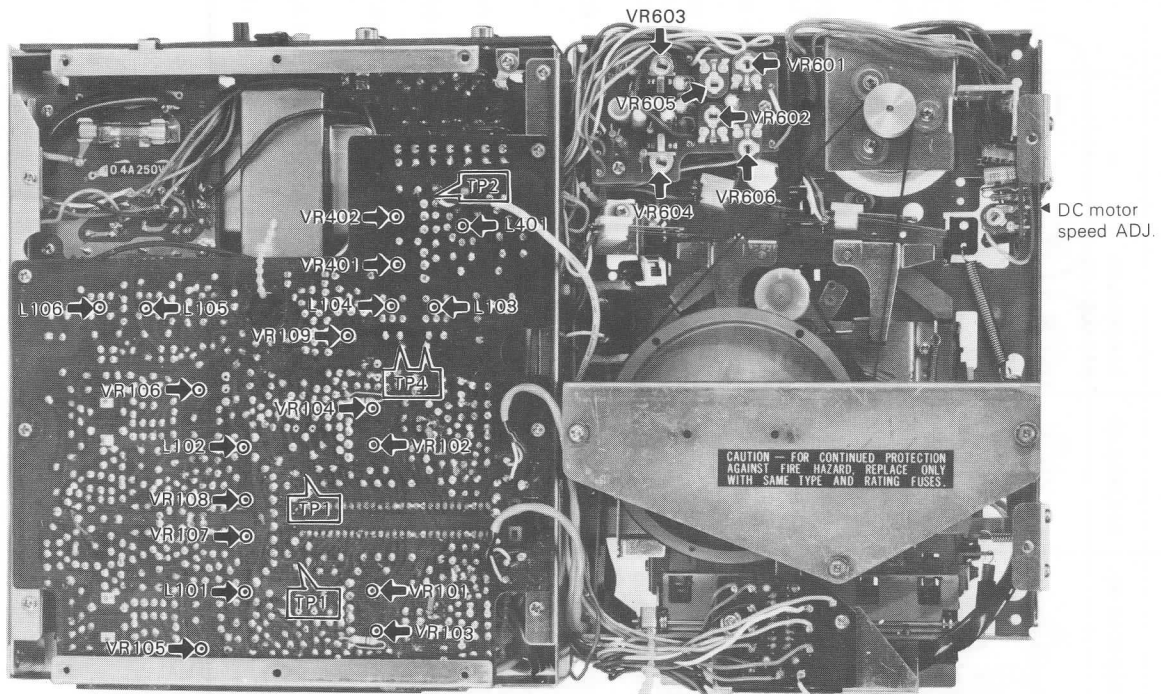
T_r Approx. 10 m sec.

T_f Approx. 1.5 ~ 2.0 sec.

ADJUSTMENTS

Refer to the KX-720 ADJUSTMENTS, which is not described in this manual.

NO.	ALIGNMENT	INPUT SIGNAL	CHECK POINTS	DECK SETTING	ADJUSTING POINTS	ADJUSTING METHOD	REMARKS
TAPE SPEED Note: In this adjustment, pitch control knob should be in mechanical center position.							
1.	TAPE SPEED	MTT-111	LINE-OUT	Standard Playback	PC trimmer potentiometer of DC motor	Frequency counter indicates 3000 Hz	See note.
RECORDING SYSTEM [Use TDK: SKC-90 (T93-0003-05) TAPE]							
8a	VU METER	LINE-IN 1 kHz, -10 dBs	LINE-OUT and VU METER	Pause: ON Meter: VU standard recording	VR605 (L) 606 (R)	VU meter indicates OVU meter	
8b	PEAK METER	LINE-IN 1 kHz, -10 dBs	LINE-OUT and VU METER	Pause: ON Meter: PEAK standard recording	VR601 (L) 602 (R)	VU meter indicates OVU meter	
8c	PEAK METER	LINE-IN 1 kHz, -20 dBs	LINE-OUT and VU METER	Pause: ON Meter: PEAK standard recording	VR603 (L) 604 (R)	VU meter indicates -10 VU	
8d	Repeat the step 8a when adjusting value (OVU) is not given in this step, readjust the whole adjustment of PEAK/VU meter.						



DESTINATIONS' PARTS LIST

☆: New parts

Ref. No.	U.S.A. (K)	Canada (P)	PX (U)	Australia (X)	Europe (E)	England (T)	South Africa (S)	General Export (M)	Description
—	B46-0056-00	B46-0055-00	B46-0050-00 B46-0051-00	—	—	—	—	—	Warranty card Warranty card
—	B50-1528-00	B50-1528-00	B50-1528-00 B59-0018-00	B50-1528-00	B50-1528-00	B50-1527-00	B50-1528-00	B50-1528-00	Instruction manual ☆ KENWOOD service stations' list
C5	C91-0025-05	C91-0025-05	C91-0301-08	C91-0301-08	C91-0301-08	C91-0301-08	C91-0301-08	C91-0301-08	Spark killer
C6	—	—	C91-0301-08	C91-0301-08	C91-0301-08	C91-0301-08	C91-0301-08	C91-0301-08	Spark killer
C135, 136	CQ92M1H104K	CQ92M1H104K	CQ92M1H104K	CQ92M1H104K	CQ92M1H104K	—	CQ92M1H104K	CQ92M1H104K	Mylar 0.1μF ±10% Mylar 0.047μF ±10%
—	—	—	—	—	—	—	—	—	Power connector
136	E30-1302-05	E30-1302-05	E30-1305-08	E30-1310-08	E30-1308-08	E30-0101-05	E30-0101-05	E30-0101-05	Power cord
F1	F05-4013-09	F05-4013-09	F05-4012-09	F05-4012-09	F06-1021-05	F06-1021-05	F06-1021-05	F05-4012-09	Fuse (1AT)
F1	—	—	—	—	—	—	—	—	Fuse (0.4A)
F2	—	—	—	—	F05-5015-05	F05-5015-05	—	—	Fuse (0.5AT)
F3	—	—	—	—	F06-1021-05	F06-1021-05	—	—	Fuse (1AT)
—	H01-2230-08	H01-2231-08	H01-2232-08	H01-2230-08	H01-2230-08	H01-2233-08	H01-2230-08	H01-2230-08	Carton case ☆
—	—	—	—	—	J01-0020-05	J01-0020-05	—	—	Fuse holder × 4
—	J19-1202-04	J19-1202-04	—	J19-0437-09	—	—	—	—	Cord stopper
135	J41-0034-05	J41-0034-05	—	J41-0024-15	—	—	—	—	Power cord stopper
120	L01-6011-18	L01-6011-18	L01-6044-18	L01-6044-18	L01-6044-18	L01-6044-18	L01-6044-18	L01-6044-18	Power transformer
R1,2	PD14BY2E152J	PD14BY2E152J	PD14BY2E152J	PD14BY2E152J	PD14BY2E152J	—	PD14BY2E152J	PD14BY2E152J	Carbon 1.5kΩ ±5% 1/4W
—	—	—	—	—	—	PD14BY2E153J	—	—	Carbon 15kΩ ±5% 1/4W
R153, 154	PD14CY2E271J	PD14CY2E271J	PD14CY2E271J	PD14CY2E271J	PD14CY2E271J	—	PD14CY2E271J	PD14CY2E271J	Carbon 270Ω ±5% 1/4W
—	—	—	—	—	—	PD14CY2E471J	—	—	Carbon 470Ω ±5% 1/4W
S14 (121)	S40-2073-05	S40-2073-05	S40-2075-05	S40-2075-05	S40-2075-05	S40-2075-05	S40-2075-05	S40-2075-05	Pushbutton switch (power)
S18	—	—	S31-1311-05	S31-1311-05	S31-1311-05	S31-1311-05	S31-1311-05	S31-1311-05	Slide switch (power voltage selector)

PARTS LIST/PC BOARD

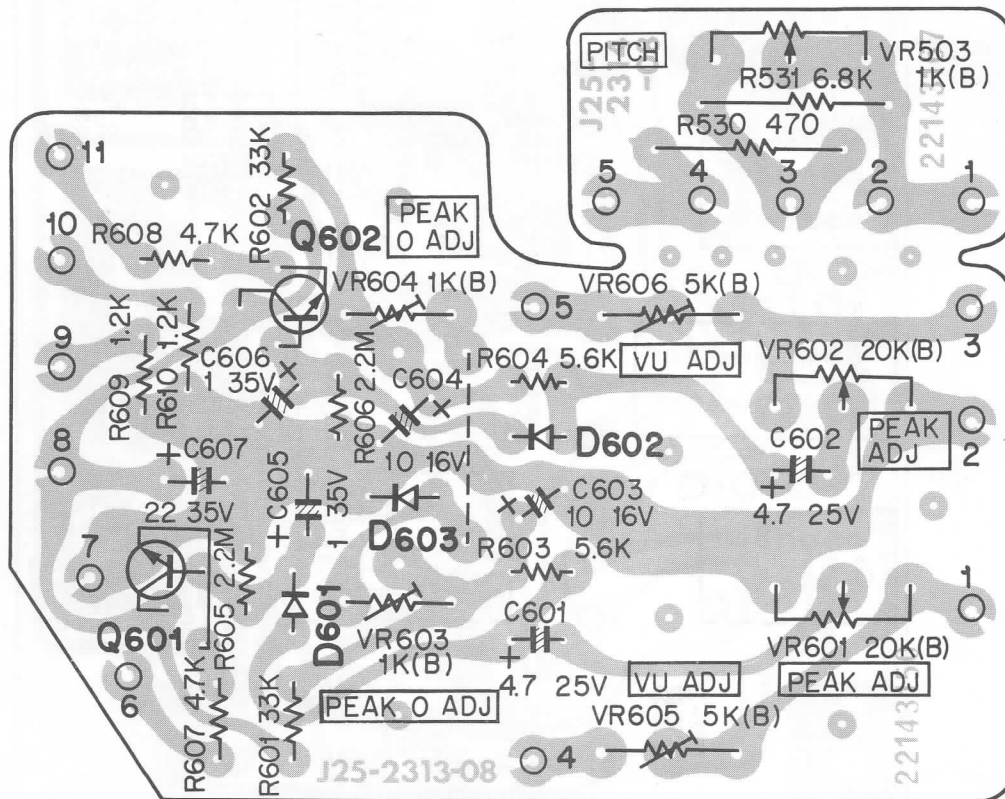
KX-920

METER AMP (X25-1190-00)

Ref. No.	Parts No.	Description	Re- marks
CAPACITOR			
C1~3	CC45SL1H102K	Ceramic 0.001 μ F \pm 10%	
RESISTOR			
R1,2	Destinations' list		
R3,4	PD14BY2E184J	Carbon 180k Ω \pm 5% 1/4W	
R5,6	PD14BY2E333J	Carbon 33k Ω \pm 5% 1/4W	
R530	PD14CY2E471J	Carbon 470 Ω \pm 5% 1/4W	
R531	PD14CY2E682J	Carbon 6.8k Ω \pm 5% 1/4W	
SEMICONDUCTOR			
D104	V11-0304-05	LED TLR-104	
IC3	V30-0212-05	IC DN-835	
POTENTIOMETER			
VR1~4	R13-3005-05	Potentiometer 20k Ω (A)	
VR503	R01-1301-08	Potentiometer 1k Ω (B) pitch	
MISCELLANEOUS			
-	E30-0004-05	Audio Cord	
-	W01-0049-05	Cleaning stick	

Ref. No.	Parts No.	Description	Re- marks
CAPACITOR			
C601,602	CE04W1E4R7	Electrolytic 4.7 μ F 25WV	
C603,604	CE04W1C100	Electrolytic 10 μ F 16WV	
C605,606	CS15E1V010M	Tantalum 1 μ F 35WV	
C607	CE04W1V220	Electrolytic 22 μ F 35WV	
RESISTOR			
R601,602	PD14CY2E333J	Carbon 33k Ω \pm 5% 1/4W	
R603,604	PD14CY2E562J	Carbon 5.6k Ω \pm 5% 1/4W	
R605,606	PD14CY2E225J	Carbon 2.2M Ω \pm 5% 1/4W	
R607,608	PD14CY2E472J	Carbon 4.7k Ω \pm 5% 1/4W	
R609,610	PD14CY2E122J	Carbon 1.2k Ω \pm 5% 1/4W	
SEMICONDUCTOR			
Q601,602	V03-0079-05	Transistor 2SC828(S) or (T)	
D601~603	V11-0076-05	Diode 1S1555	
POTENTIOMETER			
VR601,602	R12-3016-05	PC trimmer 20k Ω (B) (PEAK ADJ.)	
VR603,604	R12-1001-05	PC trimmer 1k Ω (B) (PEAK O ADJ.)	
VR605,606	R12-2014-05	PC trimmer 5k Ω (B) (VU ADJ.)	

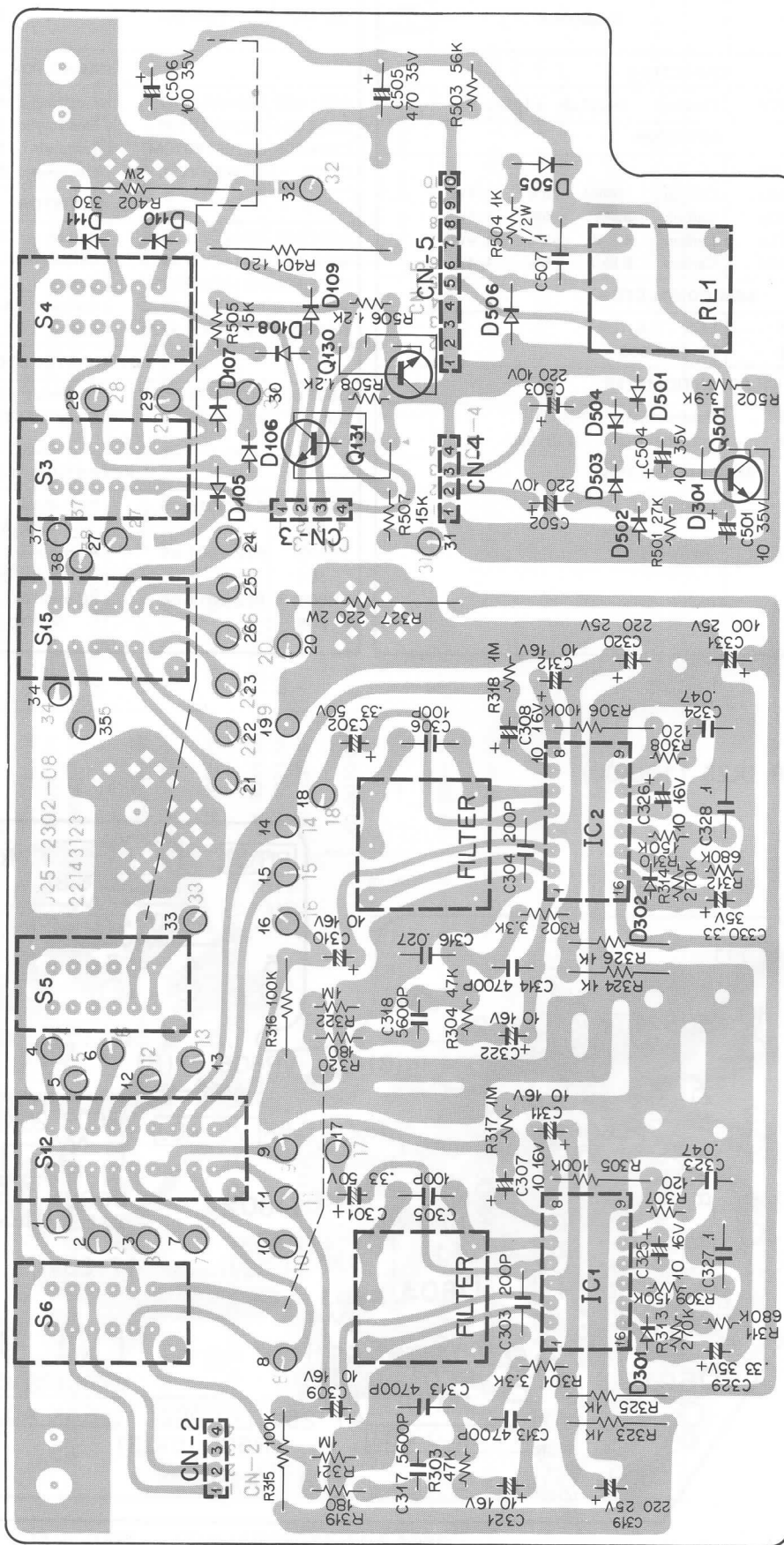
▼ METER AMP (X25-1190-00)



Q601, 602: 2SC828(S) or (T), D601 ~ 603: 1S1555

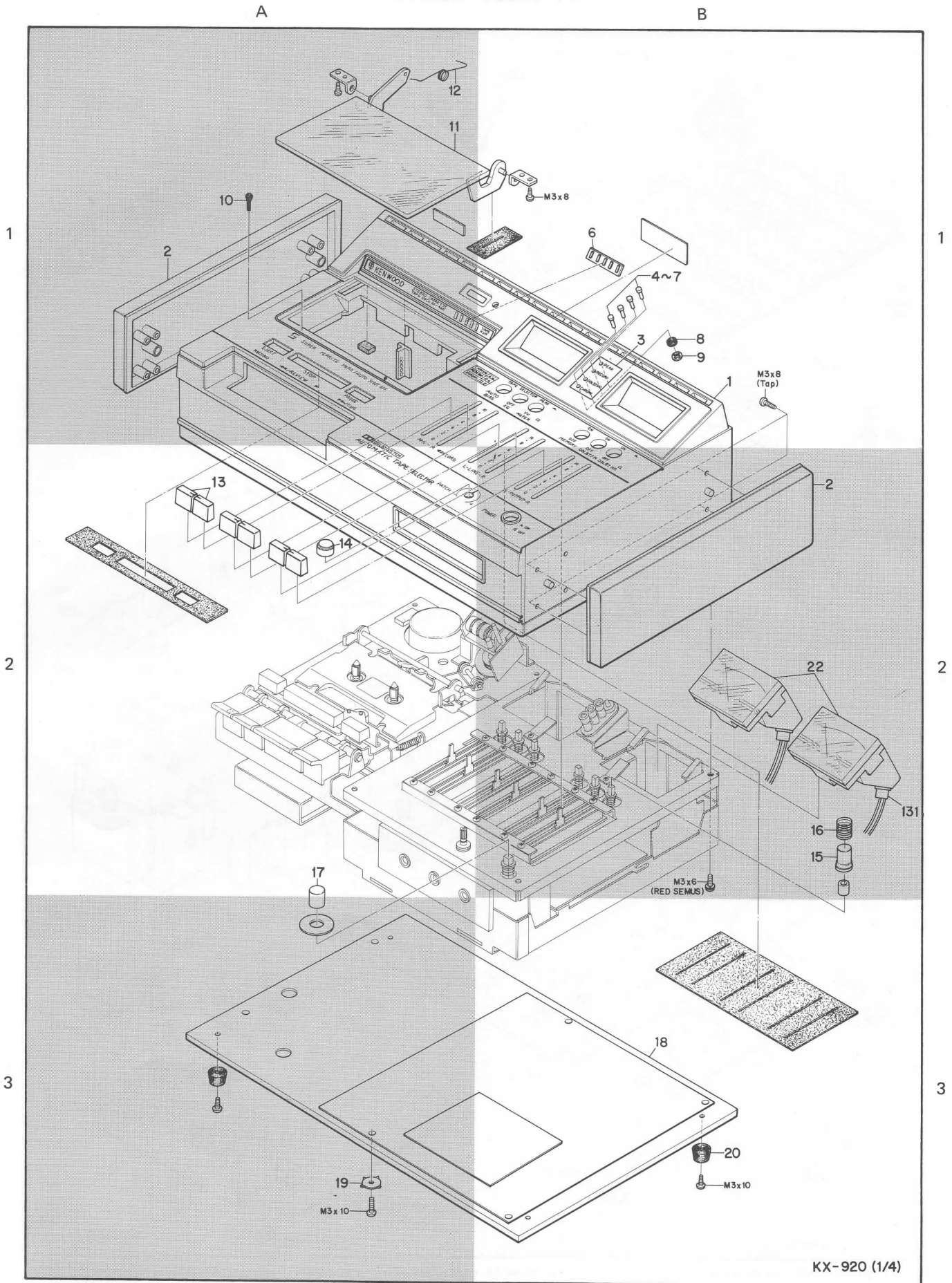
PC BOARD

The X28-1200-00 Record/Playback Unit is a modification of the X28-1200-10 and the X28-1210-00 Dolby Unit is a modification of the X28-1210-10. Both these modified units are also used in the model KX-720 and KX-920.



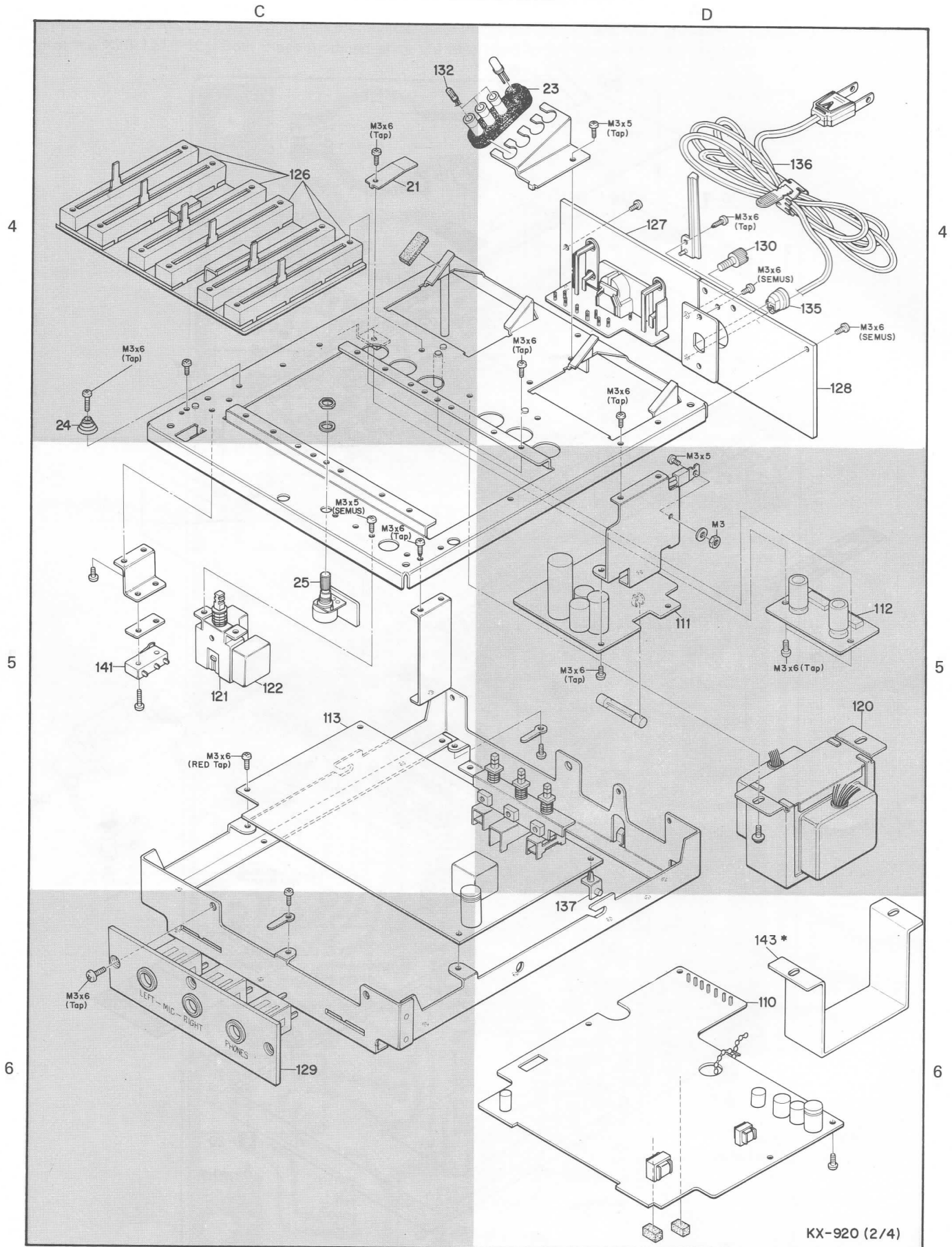
IC1, 2: NE545B, Q130, 131: 2SC1317(R), Q501: 2SC828(S) or (T), D301, 302: 1N60
 D106 ~ 111: 1S1555(V), D505: 1DZ-61, D506: SIR-60

EXPLODED VIEW (1)



KX-920 (1/4)

EXPLODED VIEW (2)



KX-920 (2/4)

* As each power transformer numbered with L01-6011-18 or L01-6044-18 is not provided with shield cover. Then you should order shield plate (F10-1002-08) when you order the power transformer.

EXPLODED VIEW (3)

E

F

7

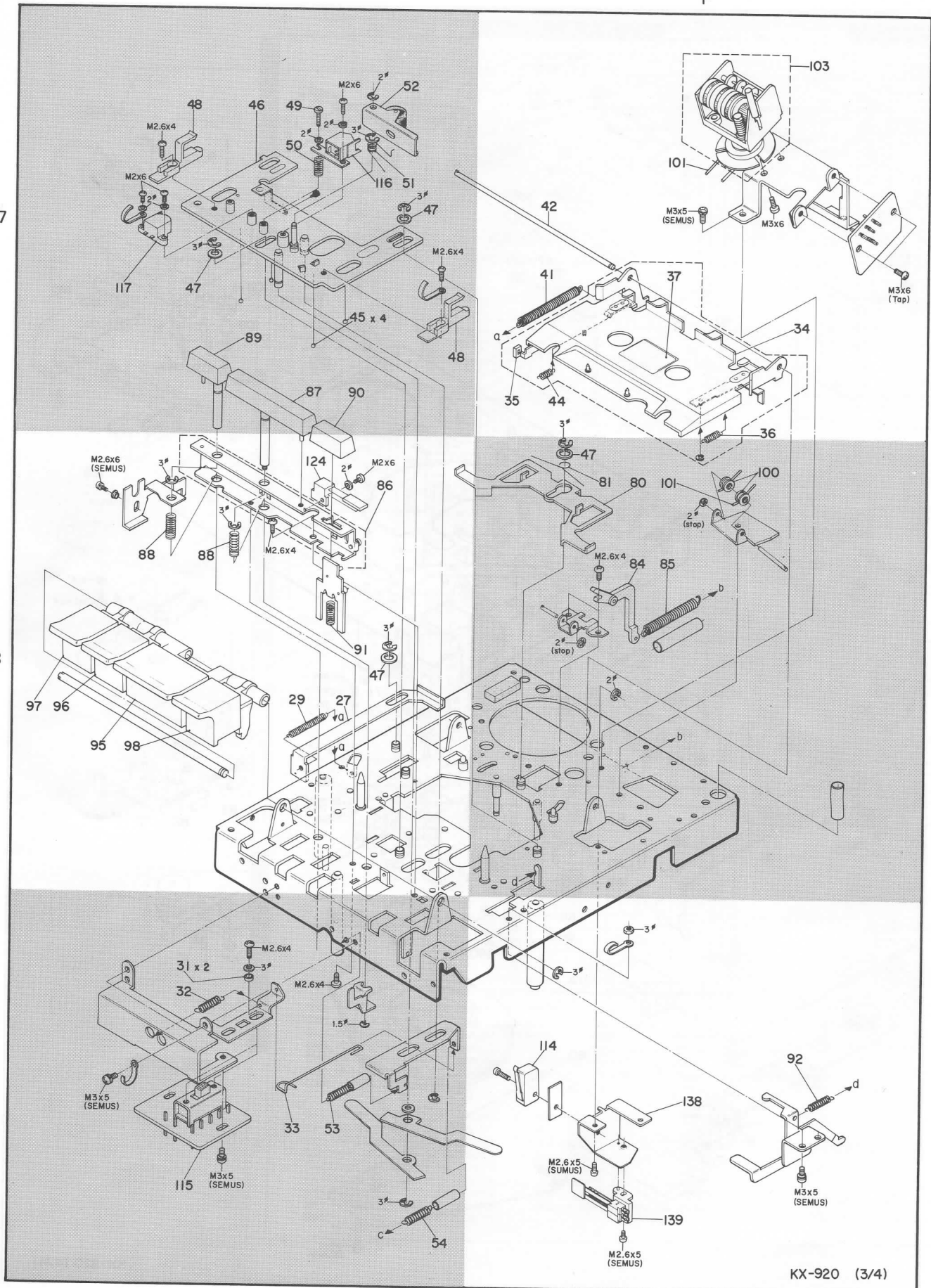
7

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8

9

9



KX-920 (3/4)

EXPLODED VIEW (4)

G

H

10

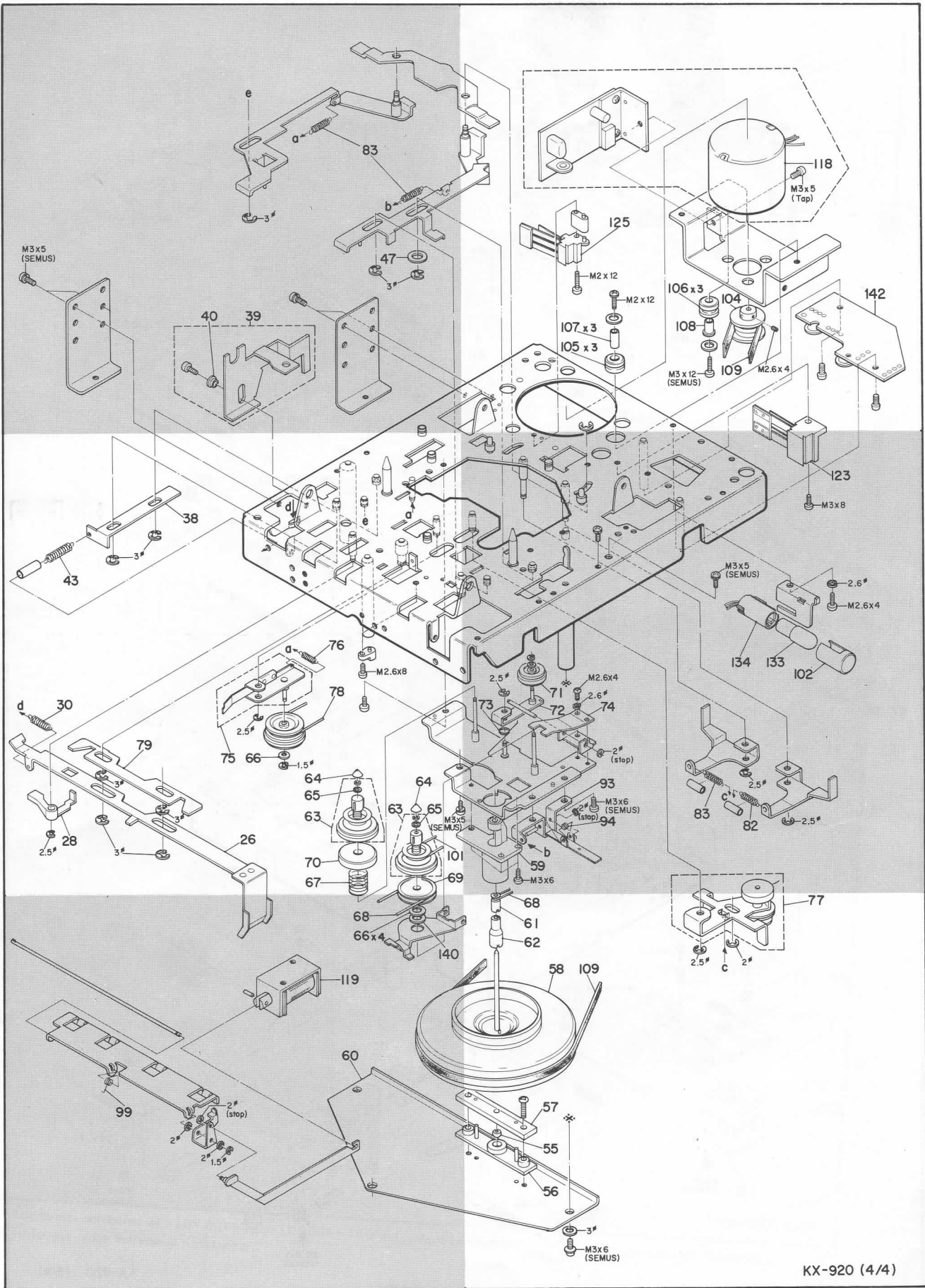
10

11

11

12

12



EXPLODED VIEW PARTS LIST

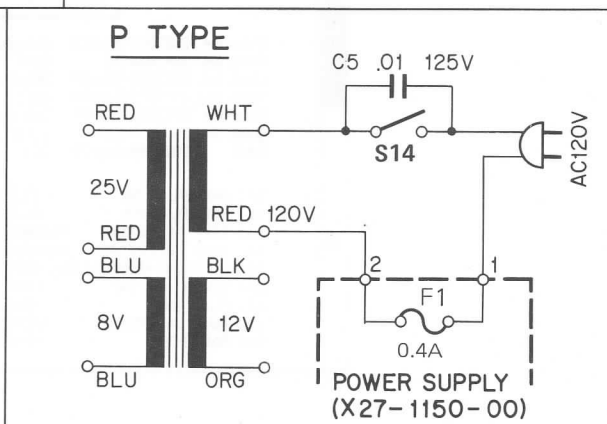
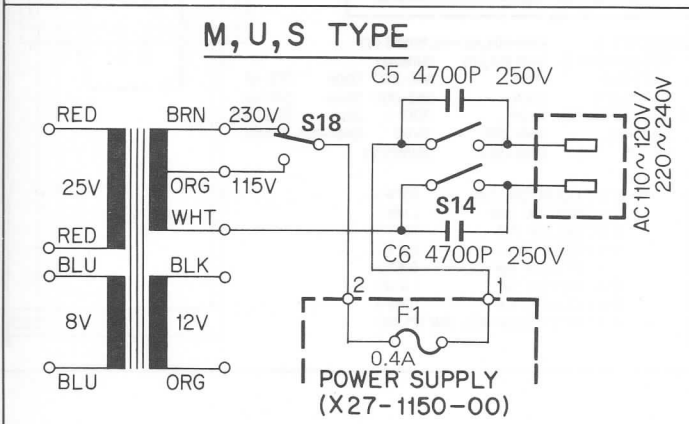
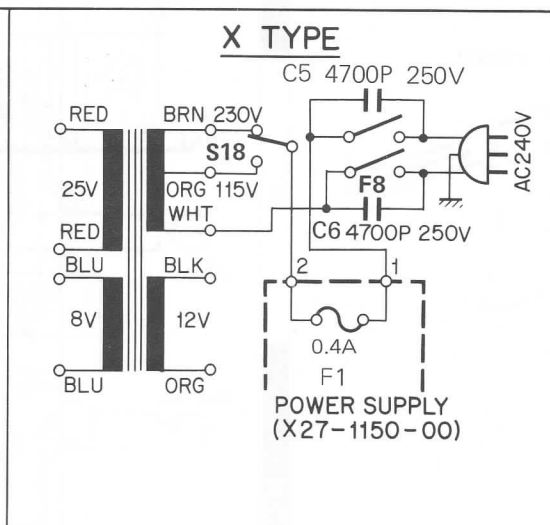
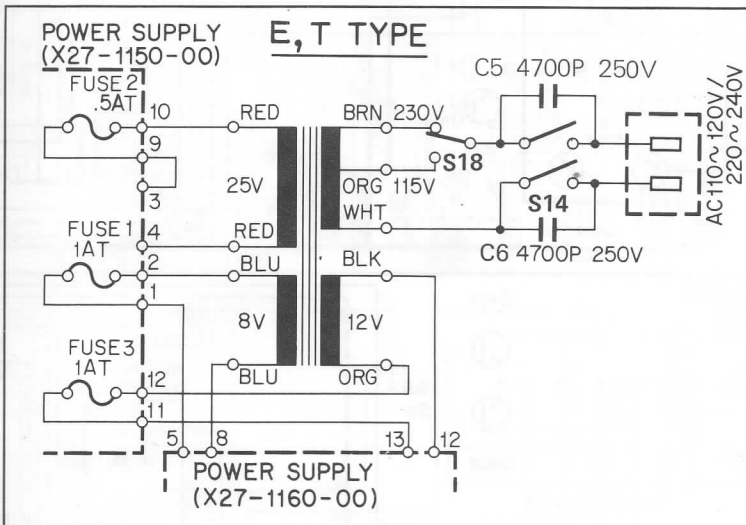
☆: New parts, ★: Destinations' parts list (p8)

Fig No	Parts No	Description	Re-marks
1	A02-0305-08	☆ Cabinet ass'y	
2	A50-0301-08	Side board	
3	B42-1301-18	Lamp sticker	
4	B08-5202-08	Green acryl	
5	B08-2016-09	Red acryl	
6	B08-3011-09	Orange acryl	
7	B08-9008-09	Transparent acryl	
8	N19-0211-09	Special washer	
9	N29-0029-09	E washer	
10	G10-0007-09	Cushion	
11	A53-0003-09	Cassette cover	
12	G01-0269-19	Tension spring	
13	K29-0611-08	☆ Knob (volume)	
14	K29-0610-08	☆ Knob (pitch control)	
15	K29-0603-08	Knob (pushbutton)	
16	G01-0602-08	Compression spring	
17	K29-0605-08	Knob (POWER)	
18	A40-0503-18	Bottom board ass'y	
19	N19-0502-08	Special washer	
20	J02-0071-09	Rubber leg	
21	G02-0302-08	Meter stopper	
22	B31-0174-05	VU meter	
23	G13-0401-08	Rubber lamp cover	
24	G01-0278-09	Conical spring	
25	R01-1301-08	☆ Potentiometer (pitch control)	
26	D10-0401-08	Switch lever ass'y	
27	D10-0144-09	Recording lever	
28	D10-0143-19	Push lever	
29	G01-0256-09	Tension spring	
30	G01-0280-09	Tension spring	
31	J31-0118-09	Spacer	
32	G01-0261-09	Tension spring	
33	G01-0320-09	Tension spring	
34	B03-0401-08	Cassette plate ass'y	
35	G13-0079-09	Rubber tire	
36	G01-0260-09	Tension spring	
37	B03-0055-04	Dress board	
38	D10-0403-08	Eject operation board	
39	D10-0402-08	Eject lever	
40	D10-0404-08	Eject guide shaft	
41	G01-0257-09	Tension spring	
42	D21-0365-09	Cassette shaft	
43	G01-0254-09	Tension spring	
44	G01-0279-09	Tension spring	
45	D90-0013-04	Steel ball	
46	D39-0060-08	Head bracket ass'y	
47	N19-0212-09	Special washer	
48	J90-0064-09	Cassette guide	
49	N09-0173-09	Special screw	
50	G01-0264-19	Compression spring	
51	G01-0271-09	Torsion spring	
52	D11-0192-09	Pinch roller ass'y	
53	G01-0259-19	Tension spring	
54	G01-0601-08	Tension spring	
55	D23-0126-09	Bearing metal	
56	J19-0431-09	Bearing holder	
57	J19-0432-09	Bearing holder	
58	D01-0026-19	Flywheel ass'y	
59	D23-0127-09	Bearing ass'y	
60	J09-0102-09	Flywheel bearing holder	
12H	D15-0134-39	Flywheel pulley	
12H	J31-0148-09	Spacer	
12H	D03-0005-09	Reel disk ass'y	
11G, 12G	B09-0007-09	Cap	
11G, 12G	N19-0215-09	Special washer	
11G, 12G	N19-0213-09	Special washer	
11G, 12G	G01-0265-09	Compression spring	
12G, 12H	D16-0044-09	Take-up belt	
11G, 12G	D15-0135-09	Take-up pulley	
11G	D15-0136-19	Supply pulley	
11H	D14-0054-09	REW idler ass'y	
11H	D11-0193-09	REW arm ass'y	
11H	G01-0272-09	Torsion spring	
11H	G02-0059-09	Leaf spring	
11G	D11-0194-09	FR arm ass'y	
11G	G01-0253-09	Tension spring	
12H	D11-0197-09	FW arm ass'y	
11G	D16-0045-09	Belt	
11G	D10-0151-09	FR operation plate	
11G	D10-0152-19	Brake	
8F	G01-0273-19	Torsion spring	
11H	G01-0251-09	Tension spring	
11G, 11H	G01-0252-09	Tension spring	
11G, 11H	D11-0196-09	Push arm	
8F	G01-0262-19	Tension spring	
8F	J20-0291-09	Knob ass'y mounting plate ass'y	
8E	K29-0213-09	Knob (STOP)	
7E	G01-0266-09	Compression spring	
8E	K29-0282-08	Knob (EJECT)	
7E	K29-0215-09	Knob (PAUSE)	
8E	G01-0267-09	Compression spring	
9F	G01-0255-09	Tension spring	
11H	J21-1309-09	Pause mounting hardware	
11H	G01-0275-09	Torsion spring	
8E	K29-0216-09	Knob (PLAY)	
8E	K29-0218-19	Knob (REW)	
8E	K29-0217-09	Knob (REC)	
8E	K29-0219-19	Knob (FF)	
11G, 7F, 8F	D16-0043-09	Counter belt	
11H	F07-0359-09	Lamp cover ass'y	
7F	B35-0201-08	Counter ass'y	
10H	D15-0137-09	Motor pulley	
10H	G13-0081-09	Cushion (black)	
10H	G13-0218-18	Cushion (grey)	
10H	J31-0119-09	Spacer	
10H	N19-0503-08	Special washer	
10H, 12H	D16-0046-09	Drive belt	
6D	X28-1200-10	☆ Recording/playback amplifier	
5D	X27-1150-00	Power supply (1)	
5D	X27-1160-00	Power supply (2)	
5C	X28-1210-10	☆ Dolby amplifier	
9F	S50-1301-08	Micro switch	
9E	X25-1160-00	Muting switch	
7E	T30-0009-05	Recording/playback head	
7E	T32-0007-05	Erase head	
10H	T42-0102-08	☆ DC motor	
12G	T94-0012-09	Solenoid	
5D	*	Power transformer	

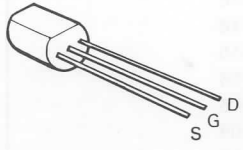
EXPLODED VIEW PARTS LIST / REVISED CIRCUIT

Fig. No.	Parts No.	Description	Re- marks
121	★	Pushbutton switch (POWER)	5C
122	★	Spark killer	5C
123	S46-2012-09	Leaf switch (S7, PLAY)	11H
124	S46-1005-09	Leaf switch (S9, PAUSE)	8E
125	S46-3001-09	Leaf switch (S13, REW)	10H
126	R13-3005-05	Slide potentiometer 20kΩ (A)	4C
127	E13-0451-08	Pin jack	4D
128	J25-2306-08	Terminal board	4D
129	E11-0055-15	Phone jack	6C
130	N08-0002-04	GND terminal	4D
131	B30-0090-09	Pilot lamp (meter)	2B
132	B30-0701-08	Pilot lamp (TAPE SELECTOR)	4C
133	B30-0096-09	Pilot lamp (TAPE RUN)	11H
134	E15-0054-09	Pilot lamp bracket	11H
135	J41-0034-05	Power cord bushing	4D
136	★	Power cord	4D
137	J29-0301-08	Amp stopper	6D
138	J21-2202-08	Switch mounting hardware	9F
139	S46-2302-08	Leaf switch (S16 CUE)	9F
140	N19-0221-09	Special washer	12G
141	S50-1301-08	Micro switch (pitch control)	5C
142	X25-1190-00	Meter amp unit	10H
143	F10-1002-08	Shield band	6D

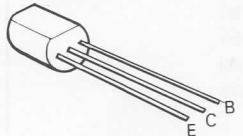
Fig. No.	Parts No.
M2 × 6	N30-2006-16
M2 × 12	N30-2012-16
M2.6 × 4	N30-2604-16
M2.6 × 8	N30-2608-16
M3 × 8	N30-3008-16
M3 × 10	N30-3010-16
M3 × 12	N30-3012-16
M3 × 5 (Tap)	N84-3005-16
M3 × 6 (Tap)	N84-3006-16
M3 × 6 (RED Tap)	N09-0504-08
M3 × 8 (Tap)	N84-3008-16
M3 × 5 (SEMUS)	N09-0174-09
M3 × 6 (SEMUS)	N09-0175-09
M3 × 6 (RED SEMUS)	N09-0505-08
1.5φ	N24-3015-60
2φ	N24-3020-60
2.5φ	N24-3025-60
3φ	N24-3030-60
2φ (Stop)	N29-0040-09



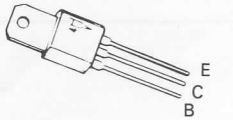
2SK30A



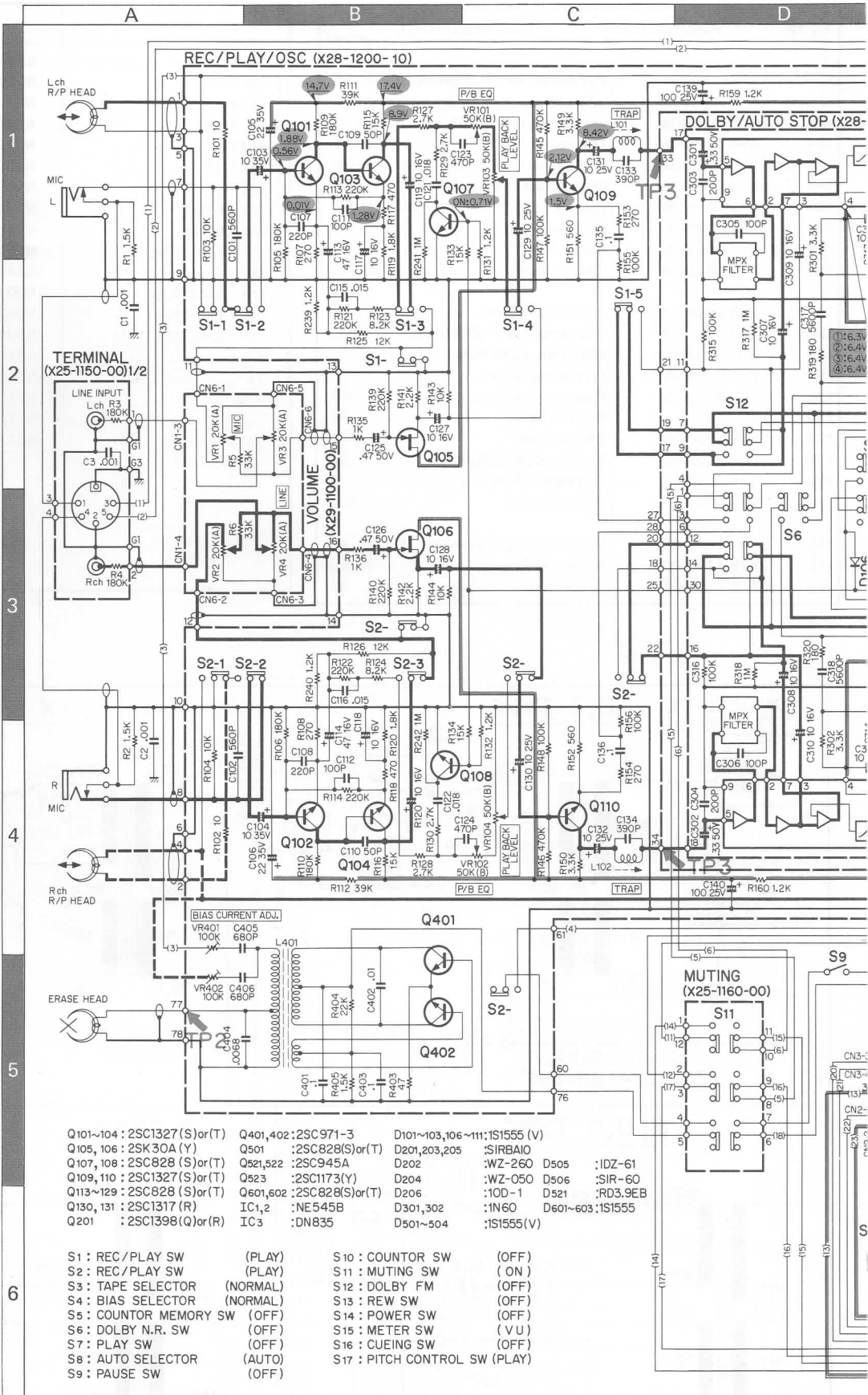
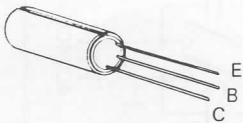
2SC828
2SC1317
2SC1327



2SC1398



2SC971

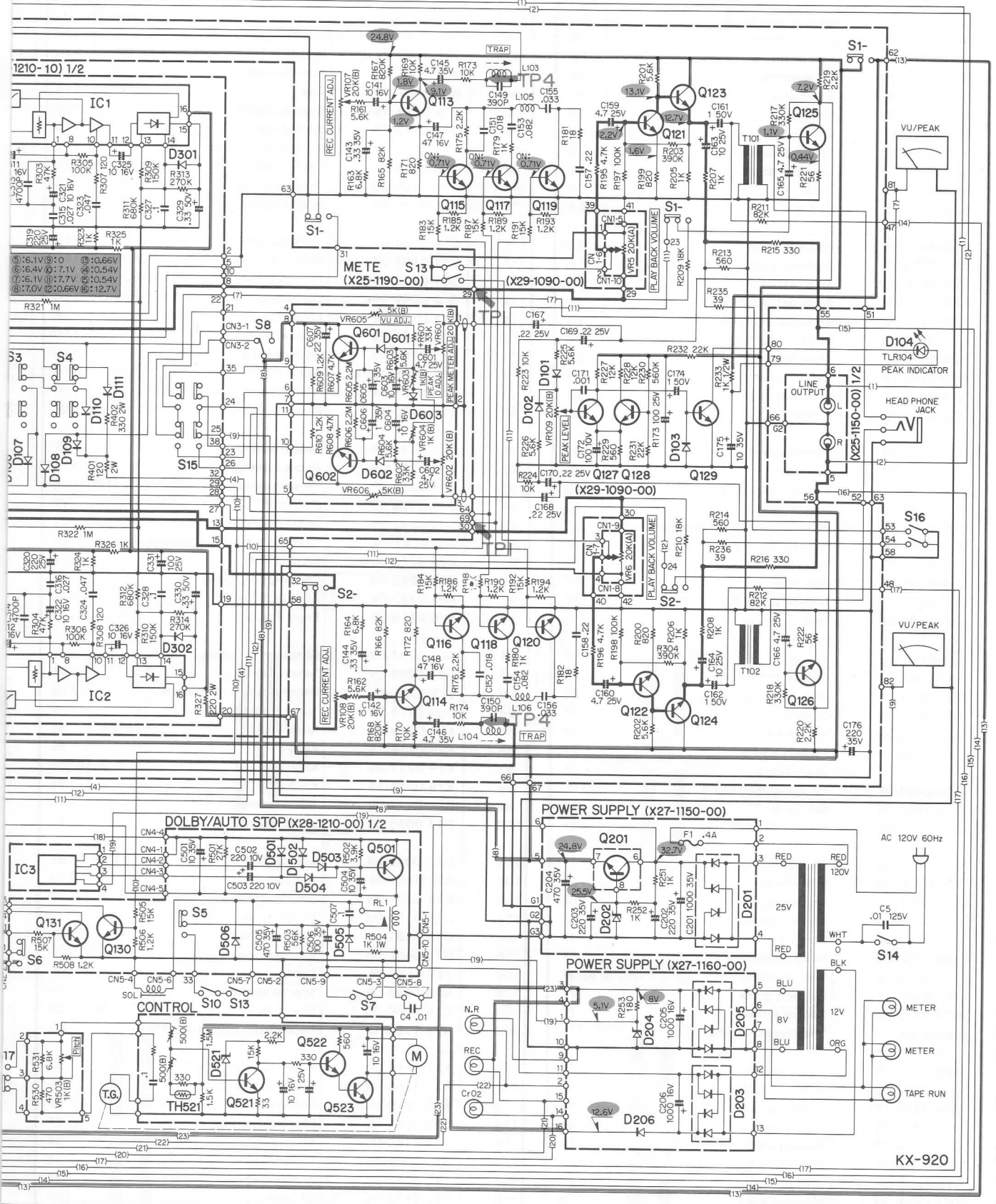


Q101~104 : 2SC1327(S)or(T)	Q401,402: 2SC971-3	D101~103,106~111: 1S1555 (V)
Q105, 106 : 2SK30A (Y)	Q501 : 2SC828(S)or(T)	D201,203,205 : SIRBA10
Q107, 108 : 2SC828 (S)or(T)	Q521,522 : 2SC945A	D202 : WZ-260
Q109, 110 : 2SC1327(S)or(T)	Q523 : 2SC1173(Y)	D204 : WZ-050
Q113~129 : 2SC828 (S)or(T)	Q601,602 : 2SC828(S)or(T)	D206 : 10D-1
Q130, 131 : 2SC1317 (R)	IC _{1,2} : NE545B	D301,302 : 1N60
Q201 : 2SC1398(Q)or(R)	IC ₃ : DN835	D501~504 : 1S1555 (V)
		D505 : 1DZ-61
		D506 : SIR-60
		D521 : RD3.9EB

S1 : REC/PLAY SW (PLAY)	S10 : COUNTER SW (OFF)
S2 : REC/PLAY SW (PLAY)	S11 : MUTING SW (ON)
S3 : TAPE SELECTOR (NORMAL)	S12 : DOLBY FM (OFF)
S4 : BIAS SELECTOR (NORMAL)	S13 : REW SW (OFF)
S5 : COUNTER MEMORY SW (OFF)	S14 : POWER SW (OFF)
S6 : DOLBY N.R. SW (OFF)	S15 : METER SW (V U)
S7 : PLAY SW (OFF)	S16 : CUEING SW (OFF)
S8 : AUTO SELECTOR (AUTO)	S17 : PITCH CONTROL SW (PLAY)
S9 : PAUSE SW (OFF)	

ATIC DIAGRAM

E F G H I



SPECIFICATIONS

CASSETTE DECK

Type: Stereo Cassette Deck with Dolby System
Track System: 4-Track 2-Channel Stereo/Mono Recording/Playback
Usable Tape: Cassette Tape: C-30, C-60, C-90 and C-120
Heads: Recording/Playback: Super Ferrite Head (SFH)
 Erase: Ferrite Head
Motor: Electronically-Controlled DC Motor
Tape Speed: 4.75 cm/sec (1-7/8 ips)
Wow and Flutter: Less than 0.08% (WRMS)
 $\pm 0.14\%$ (DIN)
Fast Winding Time: Less than 82 seconds for C-60 tape
Frequency Response: Normal: 30 ~ 14,000 Hz (40 ~ 13,000 Hz ± 3 dB)
 Reserve: 30 ~ 16,000 Hz (40 ~ 14,000 Hz ± 3 dB)
 Chrome: 30 ~ 16,000 Hz (40 ~ 14,000 Hz ± 3 dB)

	JIS		DIN Weighted	
	Dolby OFF	Dolby ON	Dolby OFF	Dolby ON
Signal to Noise Ratio:				
Normal:	52 dB	60 dB	48 dB	56 dB
Reserve:	54 dB	62 dB	50 dB	58 dB
Chrome:	54 dB	62 dB	50 dB	58 dB
Recording Bias:	85 kHz AC			
Erasing Method:	AC type			
Inputs:	Microphones X2: 0.24 mV (−70 dBm)/10 k Ω			
(Input Sensitivity/Impedance)	Low impedance (600 Ω) for microphone			
	Line	X2: 77.5 mV (−20 dBm)/340 k Ω		
	DIN	0.45 mV (−65 dBm)/1.3k Ω (6k Ω : W, L type)		
Outputs	Line	X2: 490 mV (−4 dBm)/100 k Ω		
(Output level/Load Impedance)	Headphones	X1: 55 mV (−23 dBm) for 8 or 16 Ω Headphones		
	DIN	490 mV (−4 dBm)/100 k Ω		
Distortion:	Normal:	1.4% at 1 kHz OVU		
	Reserve:	2.8% at 1 kHz OVU		
	Chrome:	1.6% at 1 kHz OVU		
Power Requirements:	AC 120V, 60 Hz..... USA and CANADA			
	AC 110 ~ 120/220 ~ 240V, 50/60 Hz Others			
Power Consumption:	17 watts			
Dimensions:	W	408 mm (16-1/16")		
	D	252 mm (9-15/16")		
	H	124 mm (4-7/8")		
Weight:	5.5 kg (12.1 lbs.)			
Built in Features:	Dolby System, Dolby FM, Auto Tape Selector, Tape Selector (Bias/Equalizer), Auto Shut-off Mechanism in All modes, Cue/Review system, Memory Rewind, Playback Pitch Control ($\pm 3\%$) MIC/Line mixing, 3 Digit Tape Counter, Large size illuminated PEAK/VU meter, Peak Indicator, Tape Running Indicator, Recording Indicator, Dolby N.R. Indicator, Chrome Tape Indicator, Microphone Jacks, Headphones Jack, DIN-Connector.			
Supplied Accessories	Audio 2P cord	2		
	Head cleaning set.....	1		
Reference Tape:	Normal:	TDK SDC-90		
	Reserve:	BASF Ferro-chrome C-60		
	Chrome:	TDK SAC-60		

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