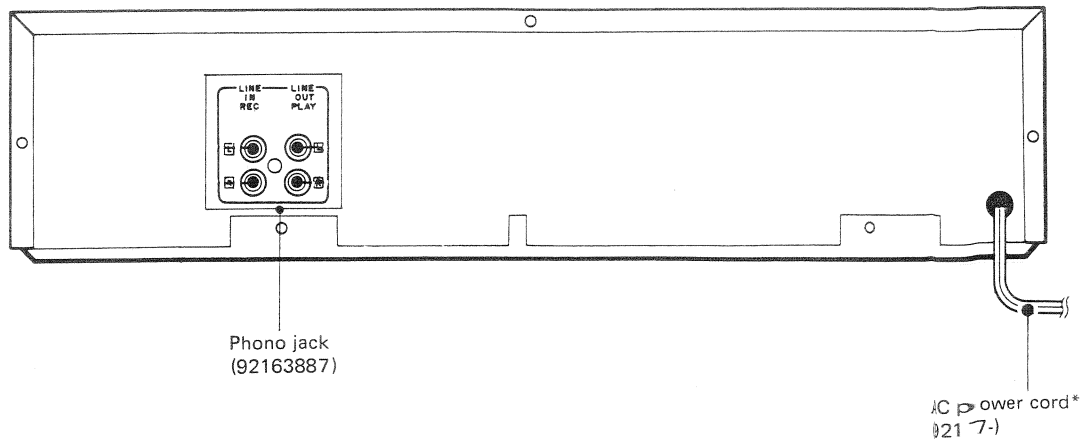
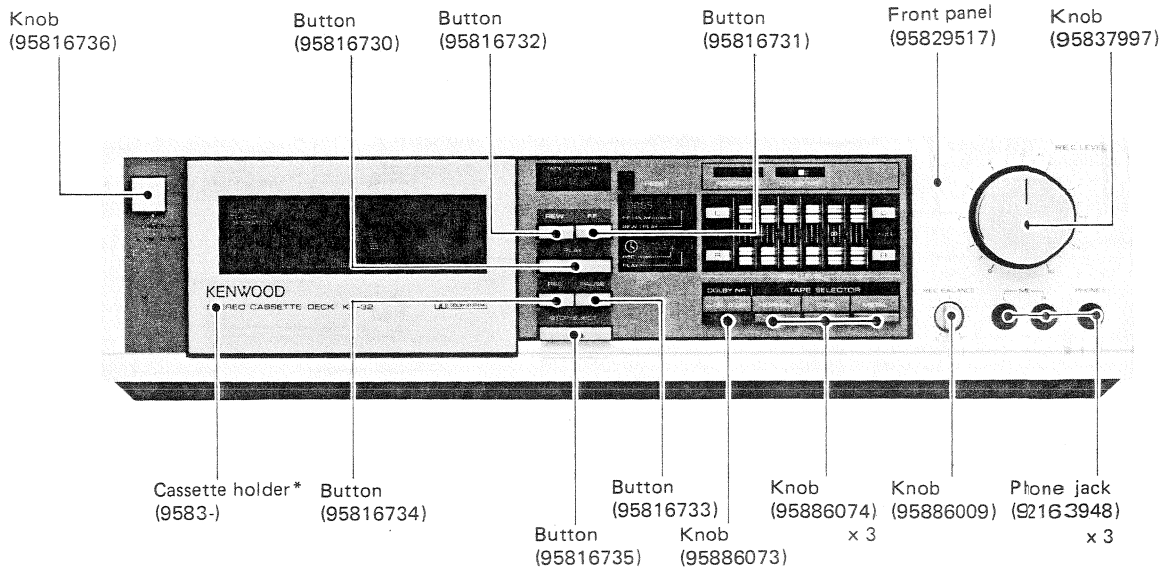


KX-32 KX-32B

KENWOOD

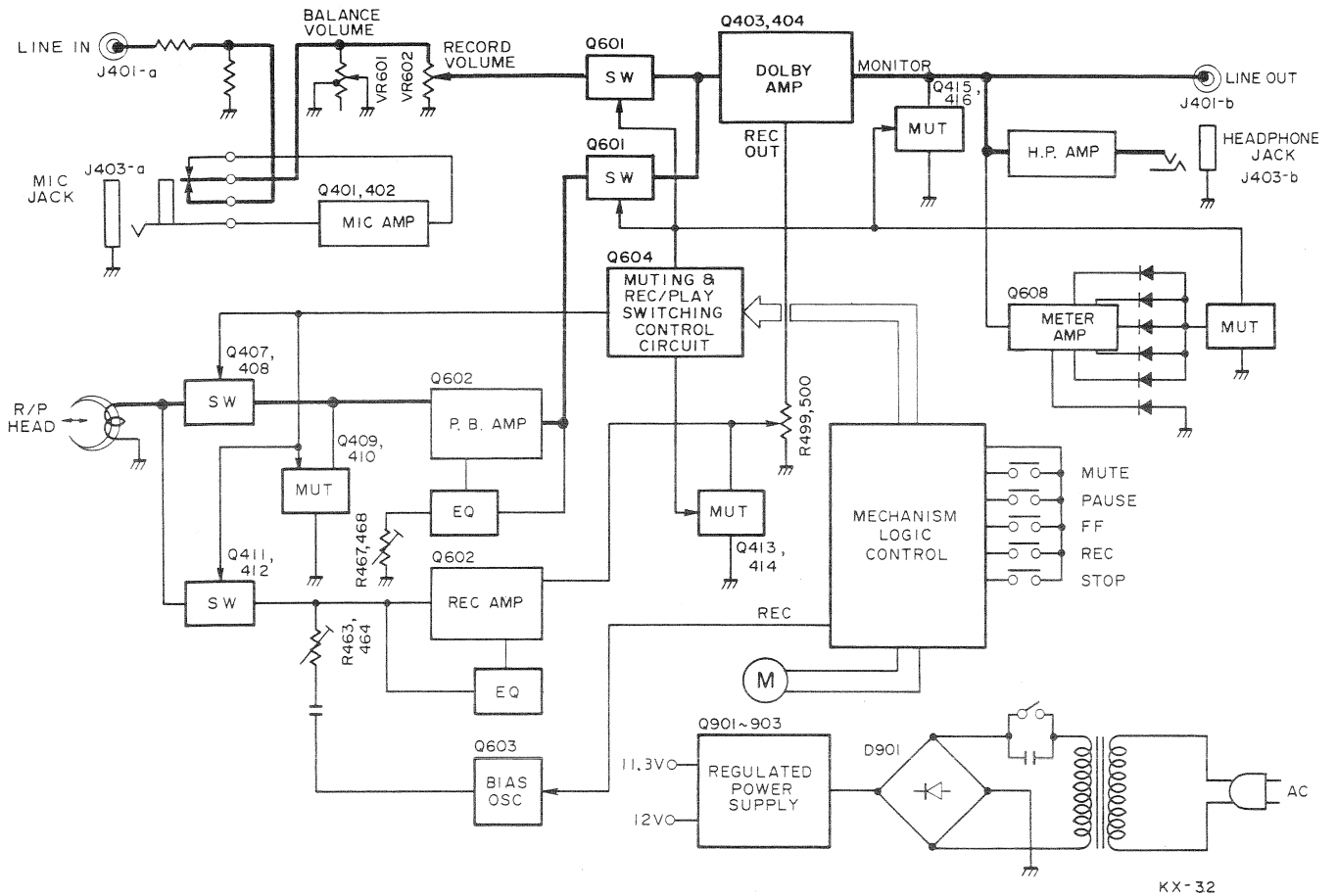
STEREO CASSETTE DECK

SERVICE MANUAL



* Refer to Parts List on Page 16.
Photo is KX-32.

BLOCK DIAGRAM/DESCRIPTION OF MECHANISM OPERATION



1. OPERATION OF EACH SECTION

1-1 Starting the play

If PLAY button (48) is pressed, PLAY lever (76) is turned in the direction of (A) by the cam of PLAY slider (62) until the sliding boss at the end of PLAY lever (76) is meshed with cam gear (81). As the result, the cut-off gear of cam gear

(81) is meshed with the flywheel gear and the cam gear is rotated. Since PLAY lever (76) is linked with switch slider (83) switch slider (83) slides in the direction of arrow (B) to press the leaf switch, and the current flows.

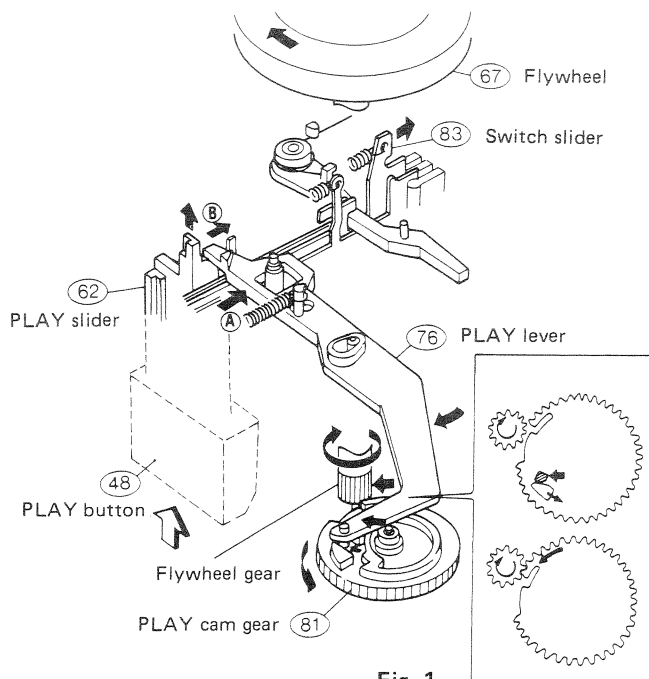


Fig. 1

DESCRIPTION OF MECHANISM OPERATION

1-2

If PLAY cam gear ⑧① starts, PLAY drive lever ⑪ is moved by the cam in the direction of arrow ① and the head slider ②⑤ and pinch lever ③③ which are linked with PLAY drive lever ⑪ are moved in the direction of arrow ②.

lever ⑫② moves in the direction of arrow ③ along the cam above head slider ②⑤, and winder gear ⑪⑧ is meshed with winder reel stand ⑬⑥.

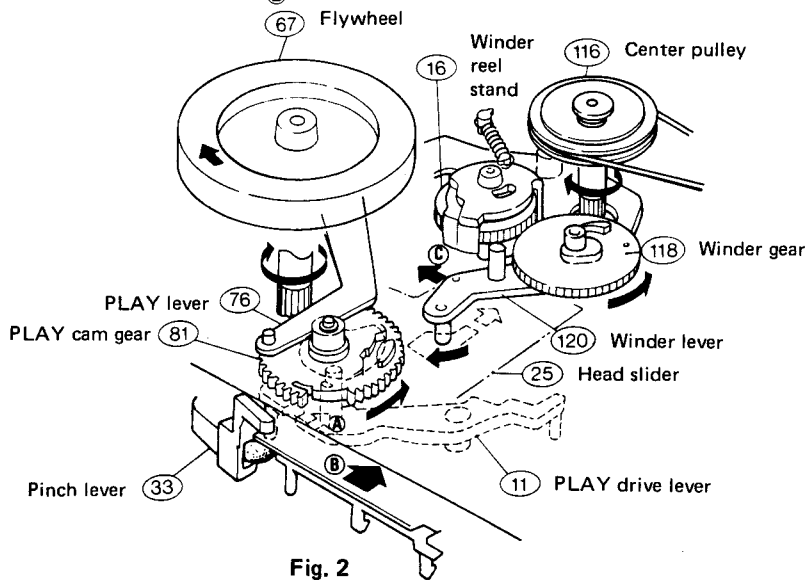


Fig. 2

1-3

PLAY cam gear ⑧① rotates about one turn and stops when its stopper contacts the sliding boss of PLAY lever ⑦⑥.

PLAY drive lever ⑪ always a rotary force to cam gear ⑧① in the direction of arrow ①.

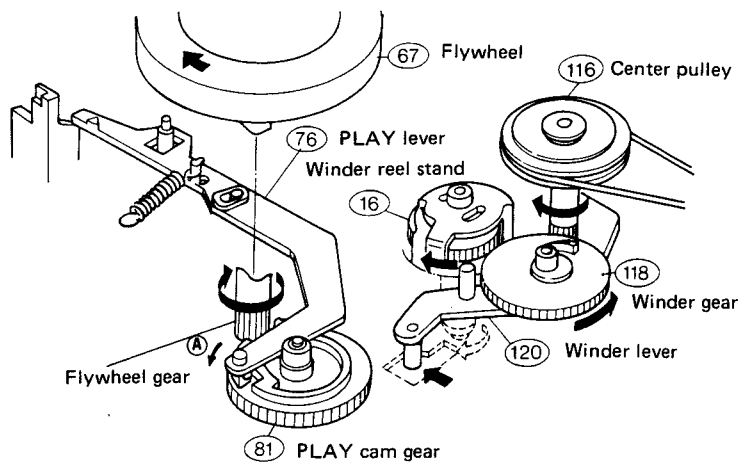


Fig. 3

DESCRIPTION OF MECHANISM OPERATION

1-4 Stopping

If STOP button 50 is pressed, STOP slider 59 moves lock slider 85 in the direction of arrow A to release PLAY slider 62, then PLAY slider 62 returns in the direction of arrow B. Since PLAY lever 76 also returns in the direction of arrow C, its sliding boss returns in the direction of arrow D, and the lock of cam gear 81 is released. When PLAY lever 76 returns,

switch slider 83 also returns in the direction of arrow E to turn off the power. If the cam gear is released, it returns to the original position, PLAY drive lever 11 returns, and head slider 25 and pinch lever assembly 33 lower. As the head slider moves, winder gear 11 is separated from the reel stand (Fig. 2).

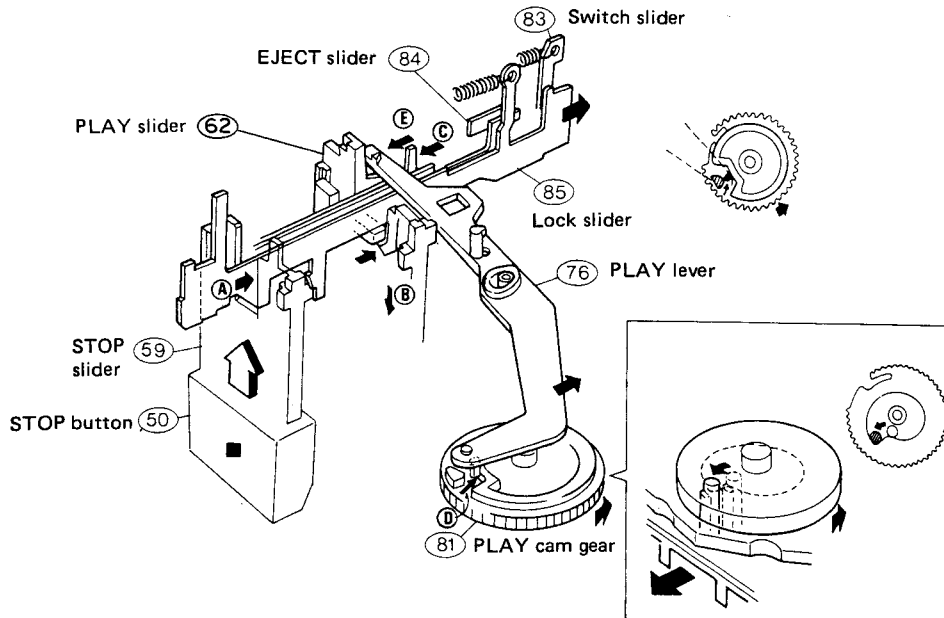


Fig. 4

1-5 FF initial operation

If FF button 52 is pressed, FF slider 61 moves REW slider 106 in the direction of arrow A. REW drive slider 8 which is linked with REW slider 106 through the pin is moved in the direction of B. High-speed lever 75 is operated by the projection of FF

slider 61 and the sliding boss at the end of high-speed lever rotates high-speed cam gear 96 to mesh it with the flywheel gear to rotate it. After cam gear 96 rotates about one turn, it is stopped by the sliding boss of high-speed lever 75 at the stopper.

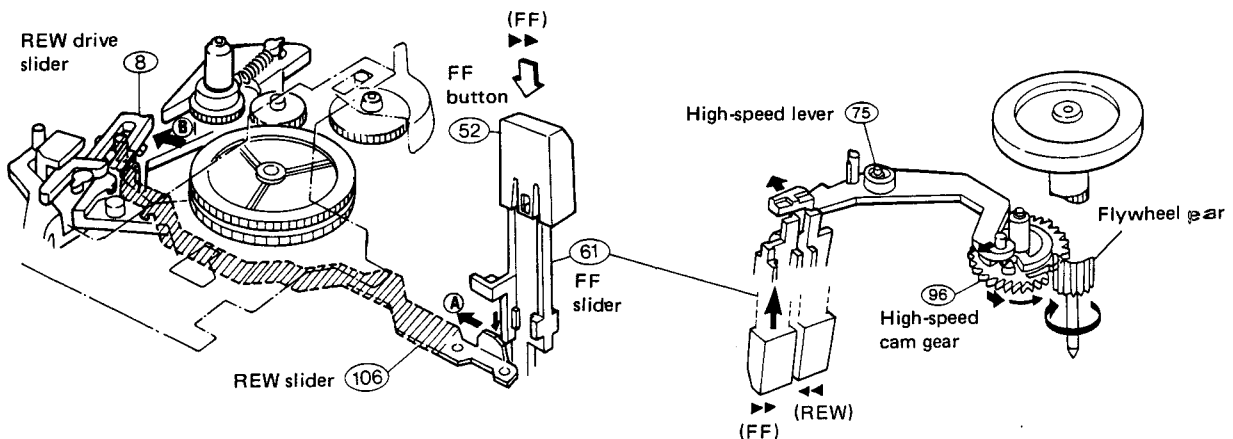


Fig. 5

DESCRIPTION OF MECHANISM OPERATION

1-6 FF operation

As high-speed cam gear ⑨⑥ rotates, high-speed drive lever ⑦ is moved in the direction of arrow A and REW drive slider ⑧ is moved in the direction of arrow B. As the result, high-speed drive lever ⑦ moves and stopper ⑩ of

high-speed gear lever ⑤ is separated, and high-speed gear lever ⑤ moves in the direction of arrow C. Then, FF gear ③ meshes with high-speed cam gear ⑨⑥ and winder ⑩⑥, and FF operation is started.

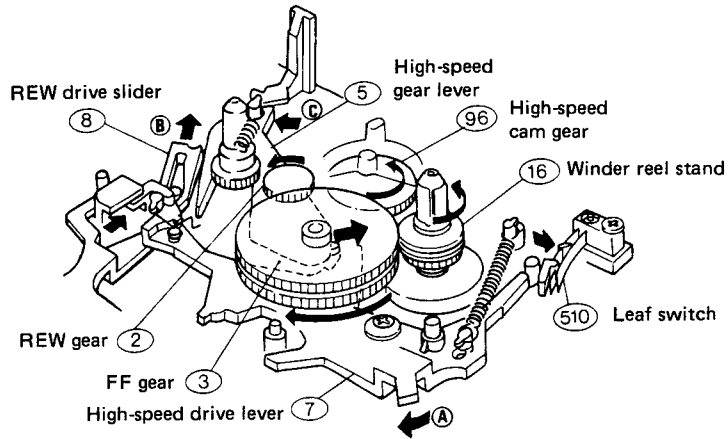


Fig. 6

1-7 REW initial operation

If REW button ⑤① is pressed, REW operation slider ⑥① moves REW slider ⑩⑥ in the direction of arrow A, and REW drive slider ⑧ is moved in the direction of arrow B. High-speed lever ⑦⑤ is moved by the projection of REW operation

slider ⑥①, and high-speed cam gear ⑨⑥ is rotated by the sliding boss at the end of high-speed lever ⑦⑤ and cam gear ⑨⑥ is meshed with the flywheel gear to be rotated (in the same operation as FF).

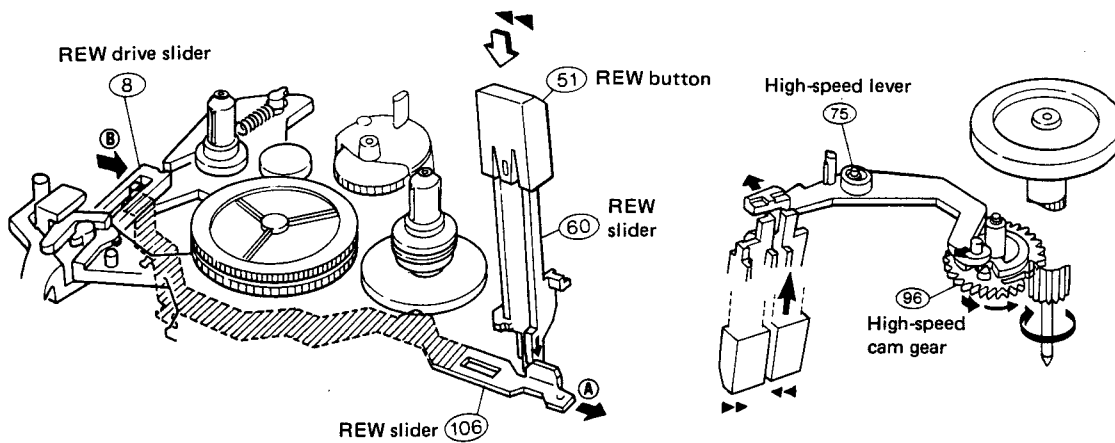


Fig. 7

DESCRIPTION OF MECHANISM OPERATION

1-8 REW operation

Similarly to FF operation, high-speed drive lever ⑦ is moved by the rotation of high-speed cam gear ⑨⑥, and REW drive slider ⑧ is linked with high-speed gear lever ⑤ and moved in the direction of arrow A. As the result, high-speed gear lever ⑤ is moved in the direction of arrow B, and the high-speed gear, REW gear ②, FF gear ③, and the gear of supply reel stand are meshed together and REW operation is started.

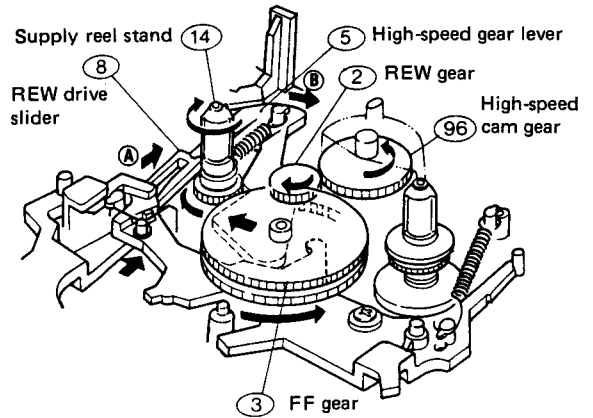


Fig. 8

1-9 CUE operation

If FF button is pressed during PLAY operation, high-speed drive lever ⑦ is moved to press pinch lever assembly ③③ as in FF operation. As the pinch roller is separated from the capstan shaft, winder lever ⑩ is moved to disengage the winder gear on the winder lever from the winder reel stand, and head slider ⑳ is pressed down. After high-speed drive lever ⑦ is moved, FF operation is started.

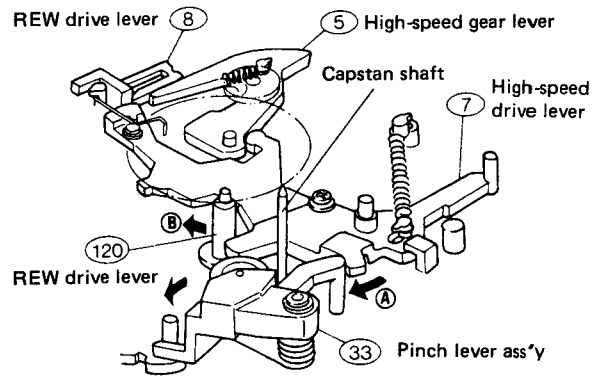


Fig. 9

1-10 REVIEW operation

If REW button is pressed during PLAY operation, pinch lever assembly ③③ is separated from winder lever ⑩ as in CUE operation and REW operation is started.

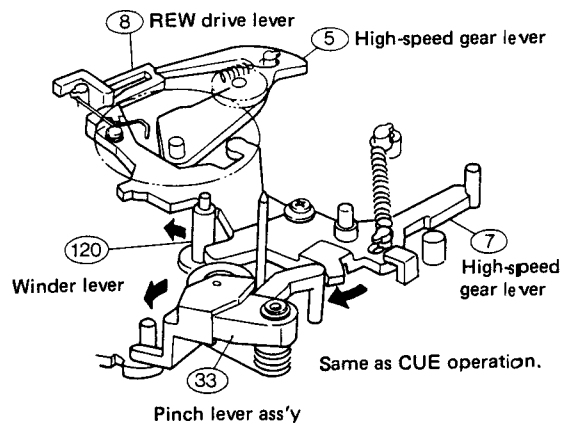


Fig. 10

DESCRIPTION OF MECHANISM OPERATION

1-11 PAUSE operation on flywheel side

If PAUSE button 53 is pressed, the cam at A of PAUSE slider 63 slides PAUSE lever 77. The sliding boss at the end of PAUSE lever 80 rotates PAUSE cam gear 80 until it is meshed with flywheel gear, and cam gear 80 is rotated in

the direction of B. Cam gear 80 stops after about one turn at the stopper.

PAUSE lever always apply a force to rotate the gear in the direction of arrow B.

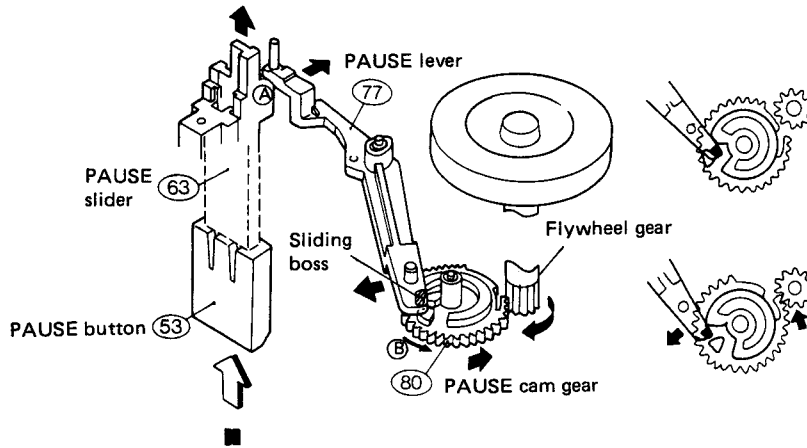


Fig. 11

1-12 PAUSE operation on head side

If PAUSE cam gear 80 rotates, the boss of PAUSE drive lever 46 moves along the cam surface, and PAUSE drive lever 46 moves in the direction of arrow A. PAUSE drive lever moves pinch lever 33 in the direction of arrow B and winder lever 120 in the direction of arrow C. As the result, the winder gear on winder lever 120 is separated from the reel stand and the pinch roller is separated from the capstan shaft.

1-13 PAUSE lock release on flywheel side

If PAUSE slider 63 is released in the direction of arrow A, PAUSE lever 77 returns in the direction of arrow B, and the sliding boss at its end is released from the stopper of PAUSE cam gear 80 and returned to the groove.

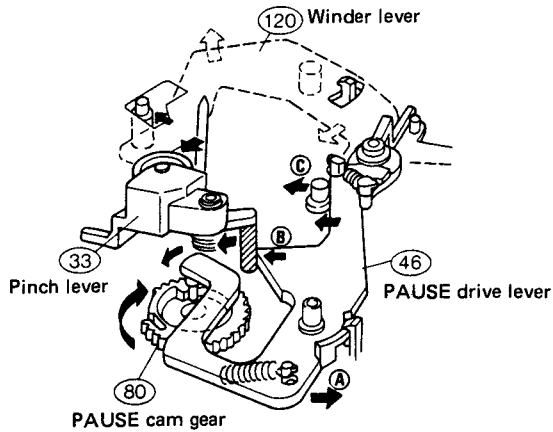


Fig. 12

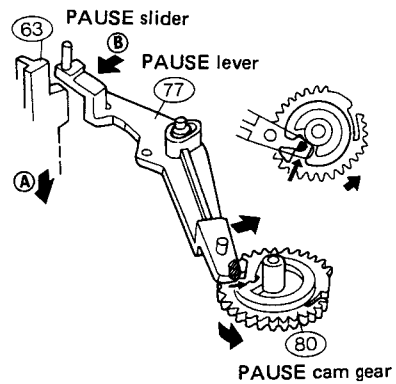


Fig. 13

DESCRIPTION OF MECHANISM OPERATION

1-14 PAUSE lock release on head side

If PAUSE lever ⑦ is released, PAUSE cam gear ⑧⑩ is rotated in the direction of arrow ① and the boss of PAUSE drive lever ④⑥ is moved in the direction of arrow ②, and PAUSE operation is released.

1-15 ASO-(1)

When each operation button is pressed, the operation lever linked with the cam of each operation slider moves slider ③③, and ASO lever ⑦① linked with the switch slider moves to release ASO detector lever ⑩⑩.

While winder reel stand ⑩⑥ is rotating, the friction lever in the winder reel stand works as a clutch. That is, a force to rotate the friction lever in the same direction as the reel stand is applied, and ASO detector lever ⑩⑩ is pressed in the direction of arrow ①, and the sliding boss of ASO detector lever ⑩⑩ slides along the eccentric cam of winder gear ⑩⑧ to swing ASO detector lever ⑩⑩ in the direction of arrow ②.

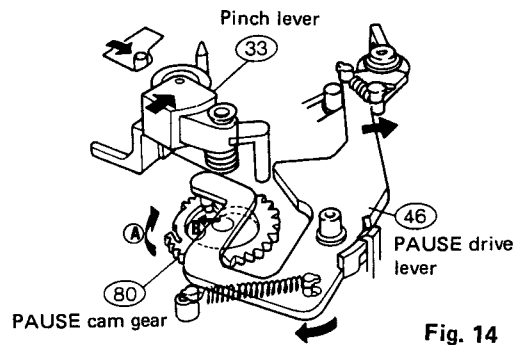


Fig. 14

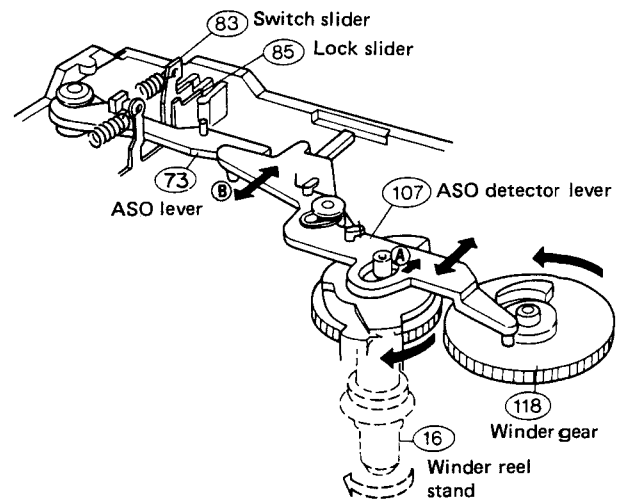


Fig. 15

1-16 ASO-(2)

If winder reel stand ⑩⑥ stops, the friction lever is set free, and ASO detector lever ⑩⑩ is also set free. Therefore, the boss which is sliding on the cam surface of winder gear ⑩⑧ stops on the most eccentric point of the cam then moves up to the projection of the gear. At this time, ASO detector

lever ⑩⑩ moves ASO lever ⑦③, which moves lock slider ⑧⑤ in the direction of arrow ③ to release the lock.

As lock plate ⑧⑤ moves, the operation slider is returned and each operation is stopped. When the operation lever is returned switch slider ⑧③ is returned to turn off the power (Fig. 15).

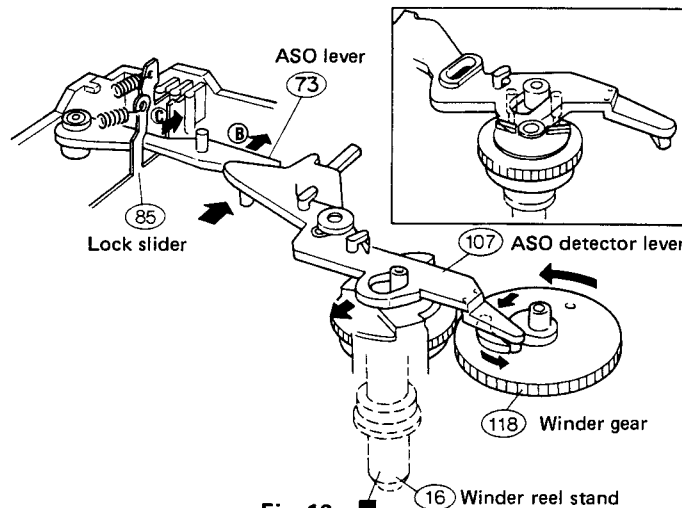


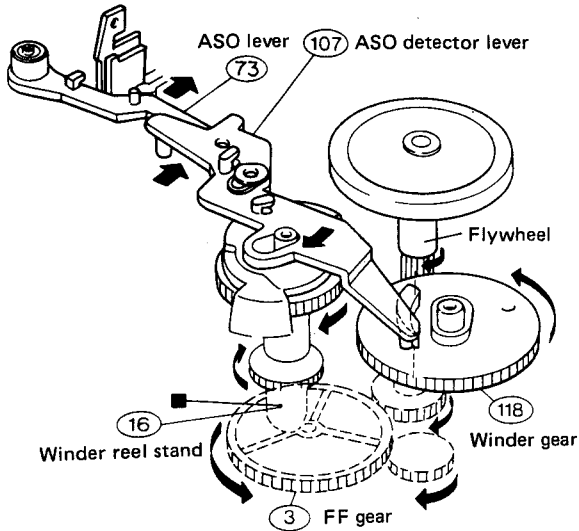
Fig. 16

DESCRIPTION OF MECHANISM OPERATION

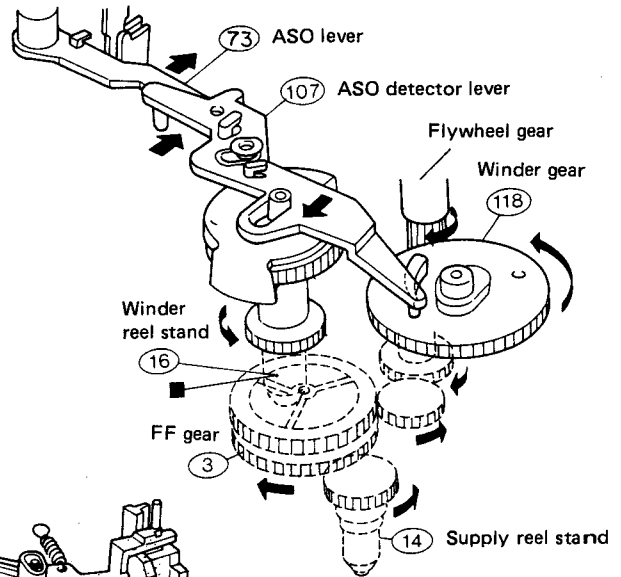
1-17 ASO from FF/REW operation

Same as PLAY operation. If PAUSE operation is started, ASO PAUSE lever ④④ is rotated as PAUSE drive lever ④⑥ is rotated, and the arm of ASO PAUSE lever ④④ is linked

with the boss of ASO detector lever ⑩⑦ and continuously pressed in the direction of the eccentric cam of the winder gear to hold ASO.



(FF) Fig. 17



(REW) Fig. 18

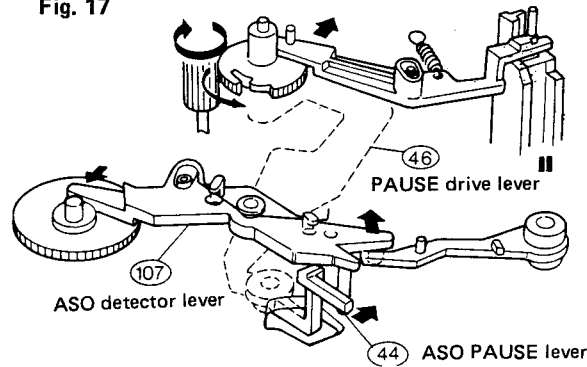


Fig. 19

1-18 EJECT operation

If EJECT button ⑤① is pressed, EJECT slider ⑧④ is moved in the direction of arrow A and holder lock lever ④② is moved in the direction of arrow B.

During STOP operation, since switch slider ⑧③ is also moved

in the direction of arrow C, STOP slider ⑤⑨ is not put on cam D of EJECT slider ⑧④, and therefore holder lock lever ④② does not move (since the double action is set).

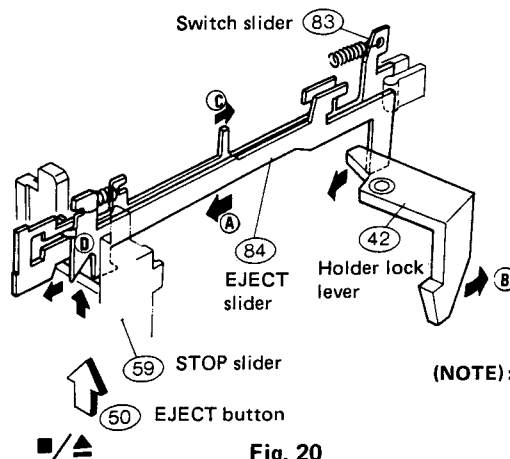


Fig. 20

(NOTE): Same part names in the drawings may be different from those in the parts list, when ordering parts, refer to the parts list on pages 19, 20.

ADJUSTMENT

NO.	ITEM	INPUT SETTINGS	OUTPUT SETTINGS	CASSETTE TAPE DECK SETTINGS	ALIGNMENT POINTS	ALIGN FOR	FIG.
CASSETTE DECK SECTION TAPE : NORMAL, DOLBY : OFF, INPUT : LINE							
I REC/PLAY HEAD							
[1]	DEMAGNETIZATION	—	—	POWER : OFF Remove the cassette door	REC/PLAY head	Demagnetize the REC/PLAY head with a head demagnetizer.	
[2]	CLEANING	—	—	PLAY	REC/PLAY head erase head, capstan, pinch roller	Clean the REC/PLAY head erase head, capstan and pinch roller using a cotton swab slightly damped with alcohol.	
[3]	AZIMUTH	MTT-256 10 kHz, -20 dBs	(A)	PLAY	Azimuth adjustment screw	Adjust the azimuth adjustment screw so that the output voltage is maximized in both forward and reverse direction.	
DC MOTOR							
(i)	TAPE SPEED	MTT-111 MTT-111D	(B)	PLAY	Trimming potentiometer in the DC motor	Adjust the tape speed so that a 3 kHz signal is produced at the center of the tape.	
II PC BOARD							
(1)	PLAYBACK LEVEL	MTT-256 315 Hz, 0 dBs	(A)	PLAY	R467 (L) R468 (R)	Output level : -6.5 dBs	
(2)	BIAS OSCILLATOR	—	—	REC/PAUSE METAL position Connect the frequency counter to TP-TRAP	Z601	Counter's reading is 83kHz.	(a)
(3)	BIAS CURRENT	(C) 1 kHz, -40 dBs 10 kHz, -40 dBs	(A)	Adjust REC and BALANCE so that the REC monitor output becomes -27 dBs at 1 kHz, then record and reproduce signal of 1 kHz and 10 kHz in alternation.	R463 (L) R464 (R)	Record 1 kHz and 10 kHz in alternation and adjust the variable resistors which control the bias current so that the same playback level is obtained.	
(4)	RECORD LEVEL	(C) 1 kHz, -20 dBs	(A)	Record and reproduce a 1 kHz signal under the condition set in (3).	R499 (L) R500 (R)	Adjust the variable resistors so that a playback level of -7 dBs is obtained.	

REGLAGE

N°	ITEM	REGLAGE DE L'ENTREE	REGLAGE DE LA SORTIE	REGLAGE DU MAGNETOPHONE A CASSETTE	POINTS DE L'ALIGNEMENT	ALIGNER POUR	FIG.
SECTION DU MAGNETOPHONE TYPE DE BANDE : NORMAL, DOLBY : OFF, ENTREE : LINE							
I TETE D'ENREGISTREMENT/LECTURE							
[1]	DEMAGNETISATION	-	-	POWER : OFF Eloigner la porte.	Tête D'ENREGISTREMENT/LECTURE	Demagnétiser la tête D'ENREGISTREMENT/LECTURE avec un démagnétiseur de tête.	
[2]	NETTOYAGE	-	-	PLAY	Tête D'ENREGISTREMENT/LECTURE tête d'effacement, cabestan, galet-presseur.	Nettoyer la tête D'ENREGISTREMENT/LECTURE la tête d'effacement, le cabestan et le galet-presseur avec un coton-tige légèrement imbibé d'alcool.	
[3]	AZIMUT	MTT-256 10 kHz, -20 dBs	(A)	PLAY	Vis d'azimut	Ajuster la vis de réglage de l'azimut de façon que la tension de sortie soit maximale à la fois en avant et en arrière, de la bande d'essai.	
MOTEUR CC							
(i)	VITESSE DE DEFILEMENT	MTT-111 MTT-111D	(B)	PLAY	Résistance ajustable du moteur CC	Régler la vitesse de bande de façon qu'un signal de 3 kHz soit produit au centre de la bande.	
II PLAQUE IMPRIMEE							
(1)	NIVEAU DE LECTURE	MTT-256 315 Hz, 0 dBs	(A)	PLAY	R467 (G) R468 (D)	Niveau de sortie : -6,5 dBs	
(2)	OSCILLATEUR DE POLARISATION	-	-	REC/PAUSE METAL position Connector le fréquencemètre sur TP-TRAP	Z601	La lecture au fréquencemètre est de 83kHz.	(a)
(3)	COURANT DE POLARISATION	(C) 1 kHz, -40 dBs 10 kHz, -40 dBs	(A)	Régler REC et BALANCE de façon que la sortie de moniteur REC soit de -27 dBs à 1 kHz, puis enregistrer et reproduire des signaux de 1 kHz et 10 kHz en alternance.	R463 (G) R464 (D)	Enregistrer un signal de 1 kHz et 10 kHz en alternance et ajuster les résistances variables qui commandent le courant de polarité de façon à obtenir le même niveau de lecture.	
(4)	NIVEAU D'ENREGISTREMENT	(C) 1 kHz, -20 dBs	(A)	Enregistrer et reproduire un signal de 1 kHz dans les conditions précisées en (3).	R499 (G) R500 (D)	Ajuster les résistances variables de façon à obtenir un niveau de lecture de -7 dBs.	

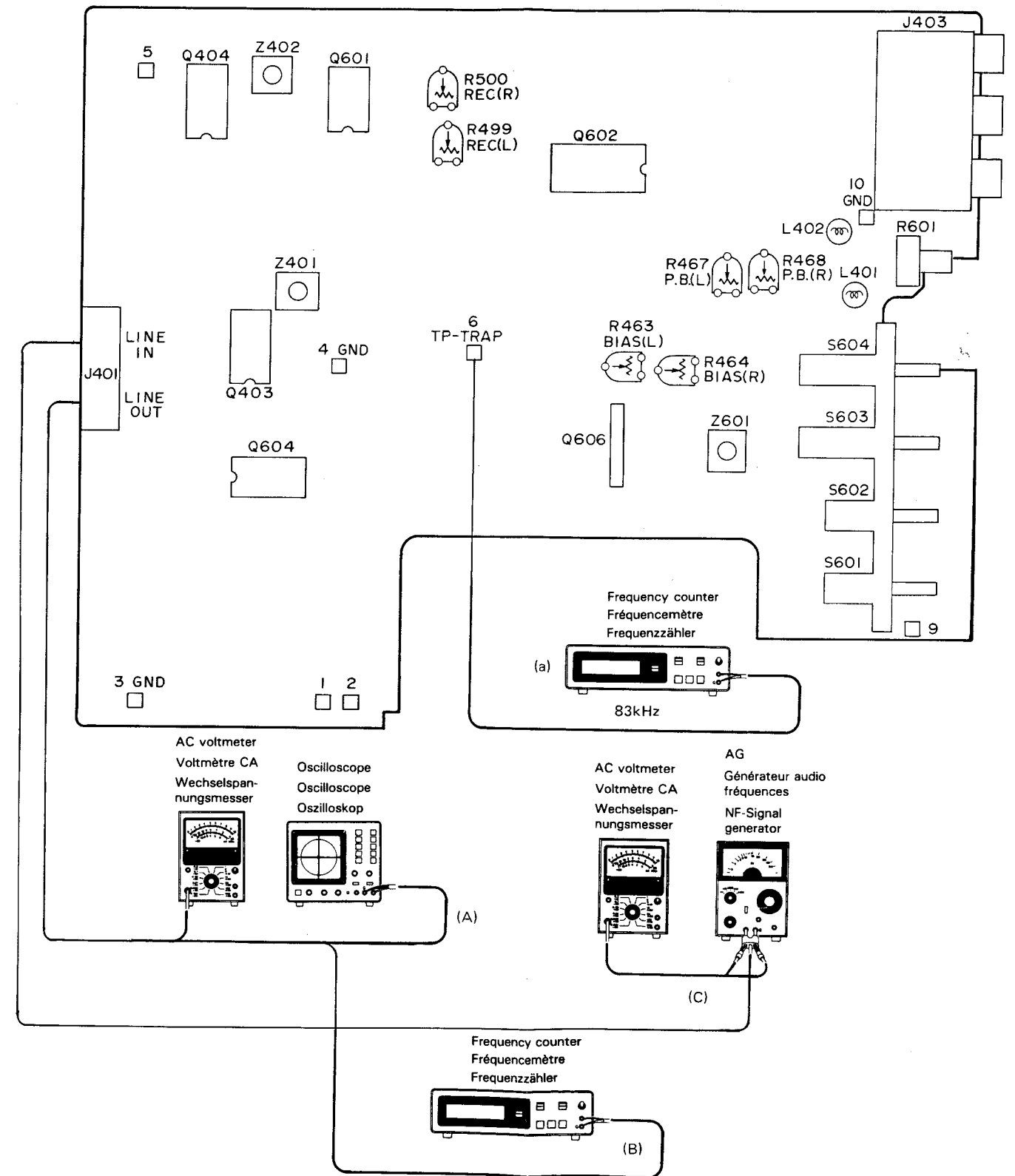
ABGLEICH

NR.	GEGENSTAND	EINGANGS-EINSTELLUNG	AUSGANGS-EINSTELLUNG	KASSETTENGÄRÄT-EINSTELLUNG	ABGLEICHE-PUNKTE	ABGLEICHEN FÜR	ABB.
CASSETTEN-DECK-ABTEILUNG TAPE BANDSORTEN : NORMAL, DOLBY : OFF, EINGANG : LINE							
I AUFNAHME/WIEDERGABE-KOPF							
[1]	ENTMAGNETISIERUNG	-	-	POWER : OFF Den Kassettenfach deckel oben herausziehen.	AUFNAHME/WIEDERGABE-Kopf	Entmagnetisierung von dem AUFNAHME/WIEDERGABE-Kopf mit einem Tonkopf Entmagnetisierungsdrossel.	
[2]	REINIGUNG	-	-	PLAY	AUFNAHME/WIEDERGABE-Kopf Löschkopf, Tonwelle, Andruckrolle	AUFNAHME/WIEDERGABE-Kopf, Löschkopf, Tonwelle und Andruckrolle mit einem leicht mit Alkohol befeuchteten Wattebausch reinigen.	
[3]	AZIMUTH-EINSTELLUNG	MTT-256 10 kHz, -20 dBs	(A)	PLAY	Azimuth-Einstellschraube	Die Azimut-Justierschraube so einstellen, daß die maximale Ausgangsspannung in Vorwärts-Reverserichtung erzielt.	
GLEICHSTROMMOTOR							
(i)	BANDGESCHWINDIGKEIT	MTT-111 MTT-111D	(B)	PLAY	Trimmer potentiometer am Gleichstrommotor	Die Bandgeschwindigkeit so justieren, daß ein 3 kHz Signal auf der Mitte des Bands erzeugt wird.	
II GEDRUCKTE SCHALTPLATTE							
(1)	WIEDERGABE-PEGEL	MTT-256 315 Hz, 0 dBs	(A)	PLAY	R467 (L) R468 (R)	Ausgangspegel : -6.5 dBs	
(2)	LÖSCHGENERATOR	-	-	Aufnahme/Pause Metall position Den Frequenzzähler an TP-TRAP anschließen.	Z601	Die Zähleranzeige ist 83kHz.	(a)
(3)	LEERLAUFSTROM	(C) 1 kHz, -40 dBs 10 kHz, -40 dBs	(A)	REC und BALANCE so justieren, daß der REC-Monitorausgang -27 dBs bei 1 kHz wird, und danach abwechselnd Signale von 1 kHz und 10 kHz aufnehmen und wiedergeben.	R463 (L) R464 (R)	Signale von 1 kHz und 10 kHz abwechselnd aufnehmen und die Regelwiderstände, die den Vormagnetisierungsstrom regeln, so justieren, daß der gleiche Wiedergabepegel erzielt wird.	
(4)	AUFNAHMEPEGEL	(C) 1 kHz, -20 dBs	(A)	Ein 1 kHz Signal unter den in Punkt (3) beschriebenen Bedingungen aufnehmen und reproduzieren.	R499 (L) R500 (R)	Die Regelwiderstände so justieren, daß ein wiedergabepegel von -7 dBs erzielt wird.	

ABGLEICH

ADJUSTMENT/REGLAGE/ABGLEICH

NR.	GEGENSTAND	EINGANGS-EINSTELLUNG	AUSGANGS-EINSTELLUNG	KASSETTENGERÄT-EINSTELLUNG	ABGLEICHE-PUNKTE	ABGLEICHEN FÜR	ABB.
CASSETTEN-DECK-ABTEILUNG TAPE BANDSORTEN : NORMAL, DOLBY : OFF, EINGANG : LINE							
I AUFNAHME/WIEDERGABE-KOPF							
[1]	ENTMAGNETISIERUNG	-	-	POWER : OFF Den Kassettenfach deckel oben herausziehen.	AUFNAHME/WIEDERGABE-Kopf	Entmagnetisierung von dem AUFNAHME/WIEDERGABE-Kopf mit einem Tonkopf Entmagnetisierungsdrossel.	
[2]	REINIGUNG	-	-	PLAY	AUFNAHME/WIEDERGABE-Kopf Löschkopf, Tonwelle, Andruckrolle	AUFNAHME/WIEDERGABE-Kopf, Löschkopf, Tonwelle und Andruckrolle mit einem leicht mit Alkohol befeuchteten Wattebausch reinigen.	
[3]	AZIMUTH-EINSTELLUNG	MTT-256 10 kHz, -20 dBs	(A)	PLAY	Azimuth-Einstellschraube	Die Azimut-Justierschraube so einstellen, daß die maximale Ausgangsspannung in Vorwärts-Reverserichtung erzielt wird.	
GLEICHSTROMMOTOR							
(i)	BANDGESCHWINDIGKEIT	MTT-111 MTT-111D	(B)	PLAY	Trimmer potentiometer am Gleichstrommotor	Die Bandgeschwindigkeit so justieren, daß ein 3 kHz Signal auf der Mitte des Bands erzeugt wird.	
II GEDRUCKTE SCHALTPLATTE							
(1)	WIEDERGABE-PEGEL	MTT-256 315 Hz, 0 dBs	(A)	PLAY	R467 (L) R468 (R)	Ausgangspegel : -6.5 dBs	
(2)	LÖSCHGENERATOR	-	-	Aufnahme/Pause Metall position Den Frequenzzähler an TP-TRAP anschließen.	Z601	Die Zähleranzeige ist 83kHz.	(a)
(3)	LEERLAUFSTROM	(C) 1 kHz, -40 dBs 10 kHz, -40 dBs	(A)	REC und BALANCE so justieren, daß der REC-Monitorausgang -27 dBs bei 1 kHz wird, und danach abwechselnd Signale von 1 kHz und 10 kHz aufnehmen und wiedergeben.	R463 (L) R464 (R)	Signale von 1 kHz und 10 kHz abwechselnd aufnehmen und die Regelwiderstände, die den Vormagnetisierungsstrom regeln, so justieren, daß der gleiche Wiedergabepegel erzielt wird.	
(4)	AUFNAHMEPEGEL	(C) 1 kHz, -20 dBs	(A)	Ein 1 kHz Signal unter den in Punkt (3) beschriebenen Bedingungen aufnehmen und reproduzieren.	R499 (L) R500 (R)	Die Regelwiderstände so justieren, daß ein wiedergabepegel von -7 dBs erzielt wird.	



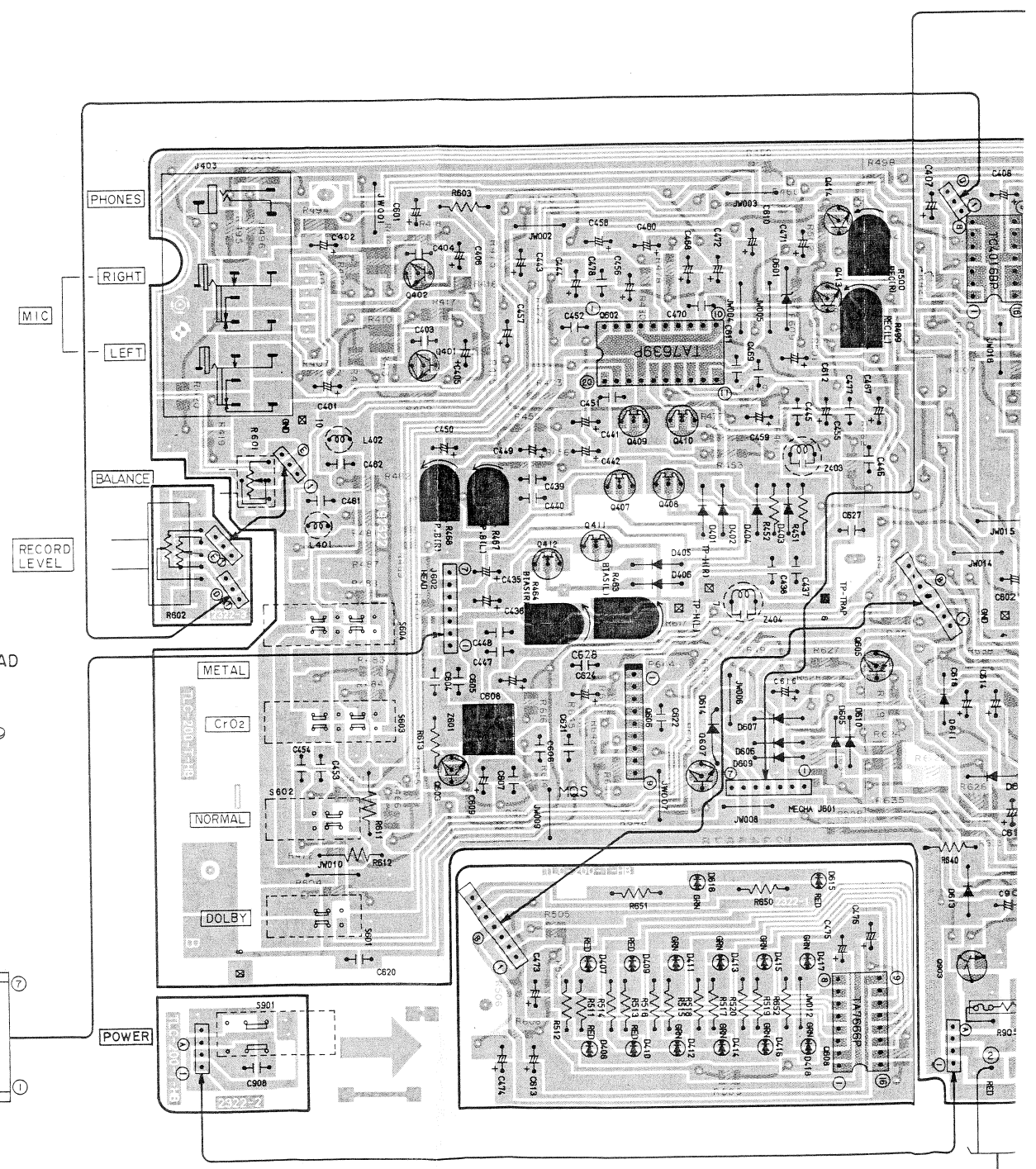
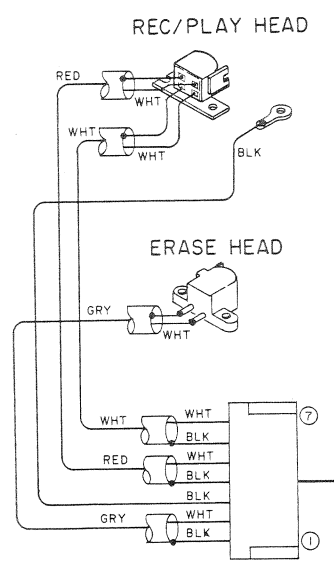
PC BOARD

Pin	Voltage
E	0V
C	5.5V
B	0.6V
E	0V
C	5.5V
B	0.6V
1	11.3V
2	5.7V
3	0V
4	5.5V
5	5.7V
6	5.7V
7	REC : 0V OTHERS : 3.0V
8	5.6V
9	5.6V
10	5.7V
11	DOLBY ON : 5.1V OTHERS : 10.5V
12	5.8V
13	5.9V
14	5.7V
15	6.0V
16	9.4V
1	11.3V
2	5.7V
3	0V
4	5.5V
5	5.7V
6	5.7V
7	REC : 0V OTHERS : 3.0V
8	5.6V
9	5.6V
10	5.7V
11	DOLBY ON : 5.1V OTHERS : 10.5V
12	5.8V
13	5.9V
14	5.7V
15	6.0V
16	9.4V
G	-
D	5.5V
S	5.5V
G	-
D	5.5V
S	5.5V
G	REC : 6.0V OTHERS : 0V
D	-
S	-

Pin	Voltage
G	REC : 6.0V OTHERS : 0V
D	-
S	-
G	-
D	5.5V
S	5.5V
B	REC : 0V OTHERS : 6.4V
C	5.5V
E	5.5V
B	REC : 0V OTHERS : 6.4V
C	5.5V
E	5.5V
1	4.8V
2	5.6V
3	5.8V
4	11.3V
5	5.6V
6	5.8V
7	5.9V
8	5.6V
9	6.2V
10	11.3V
11	0V
12	6.2V
13	5.6V
14	5.9V
15	5.8V
16	5.6V
17	5.7V
18	5.8V
19	5.6V
20	4.8V
B	PLAY : 0V N : 0.4V C : 0.3V M : 0V
C	PLAY : 12.0V N : 5.1V C : 7.0V M : 12.0V
E	PLAY : 0V N : 0.2V C : 0.2V M : 0.3V
1	REC : 7.2V PLAY : 7.8V OTHERS : 0V
2	REC : 0.6V PLAY : 1.9V OTHERS : 0V

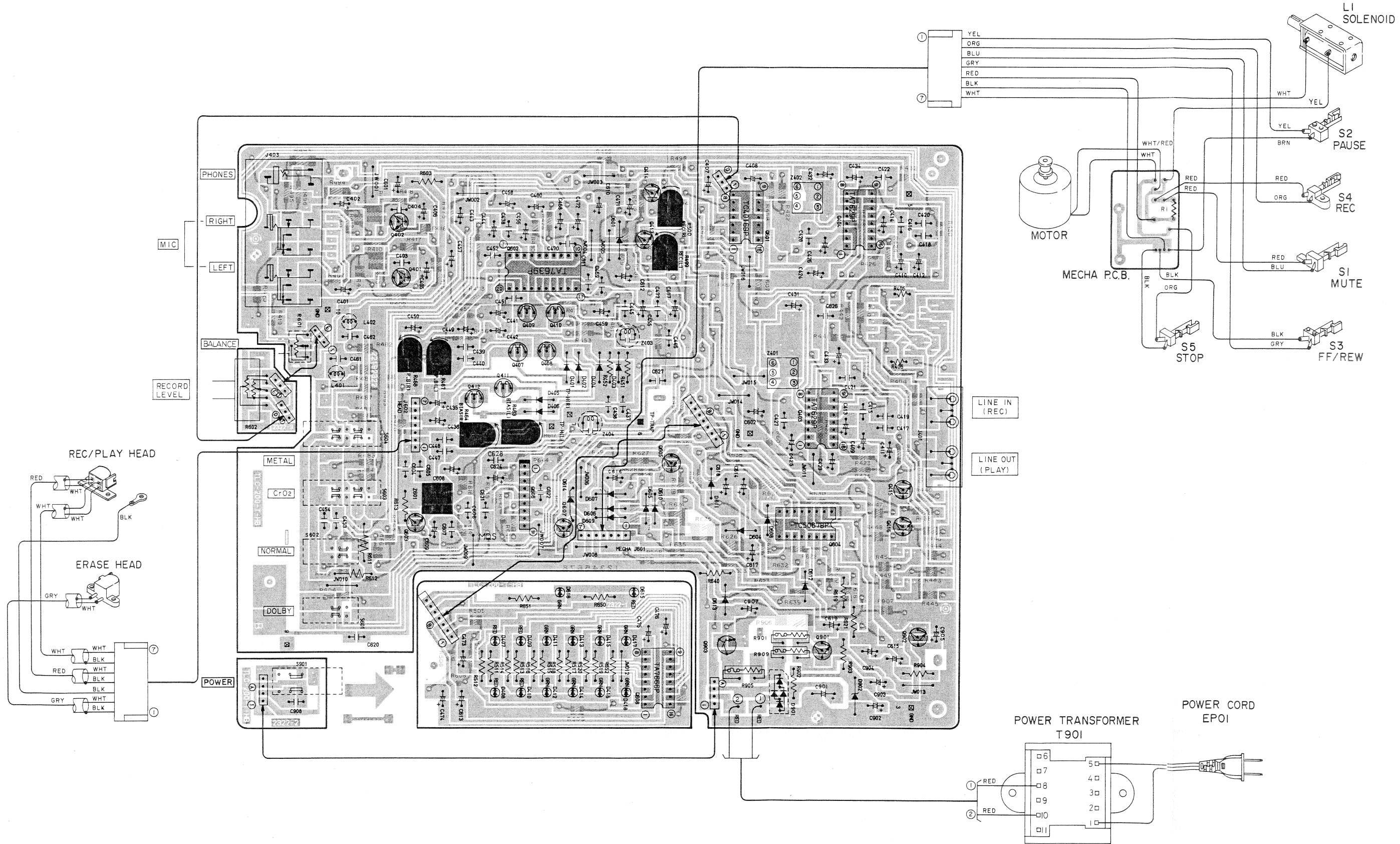
Pin	Voltage
3	FF/REW (CUE, REVIEW) : 0.4V REC : 5V OTHERS : 4V
4	0V
5	REC : 0V OTHERS : 8.7V
6	REC : 9.2V OTHERS : 0V
7	REC : 7.8V OTHERS : 0V
8	0V
9	REC : 0V OTHERS : 12.0V
10	REC : 0V OTHERS : 12.0V
12	12.0V
13	REC/PLAY : 0V OTHERS : 11.5V
14	PLAY : 0V OTHERS : 12.0V
15	REC/PLAY : 0V OTHERS : 11.5V
16	12.0V
B	PLAY, REC, PLAY-P, REC-P : 10.7V CUE, REVIEW : 10.2V OTHERS : 0V
C	CUE, REVIEW : 11.0V OTHERS : 0V
E	PLAY, REC, PLAY-P, REC-P : 11.0V OTHERS : 0V
1	CUE, REVIEW : 6.6V OTHERS : 0V
2	CUE, REVIEW : 1.3V OTHERS : 0V
3	CUE, REVIEW : 0.7V OTHERS : 0V
4	0.7V
5	0V
6	1.2V
7	CUE, REVIEW → PLAY : 1.1V OTHERS : 0V
8	CUE, REVIEW → PLAY : 0V OTHERS : 0V
9	12.0V
1	1.4V
2	1.4V
3	OFF : 9.9V ON : 0.6V

Pin	Voltage
4	OFF : 9.9V ON : 0.6V
5	OFF : 9.9V ON : 0.6V
6	OFF : 9.9V ON : 0.6V
7	OFF : 9.9V ON : 0.6V
8	0V
9	11.3V
10	OFF : 9.9V ON : 0.6V
11	OFF : 9.9V ON : 0.6V
12	OFF : 9.9V ON : 0.6V
13	OFF : 9.9V ON : 0.6V
14	OFF : 9.9V ON : 0.6V
15	1.4V
16	1.4V
B	12.7V
E	11.3V
B	12.0V
C	18.0V
E	11.3V
B	12.0V
C	18V
E	11.5V



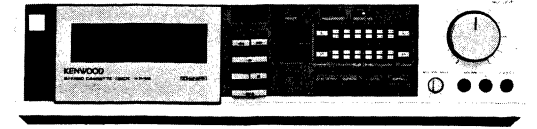
KX-32/B KX-32/B

PC BOARD



PRINTED RESISTOR

Refer to the schematic diagram for the values of resistors and capacitors. The PC board drawing is viewing from the side easy to check.

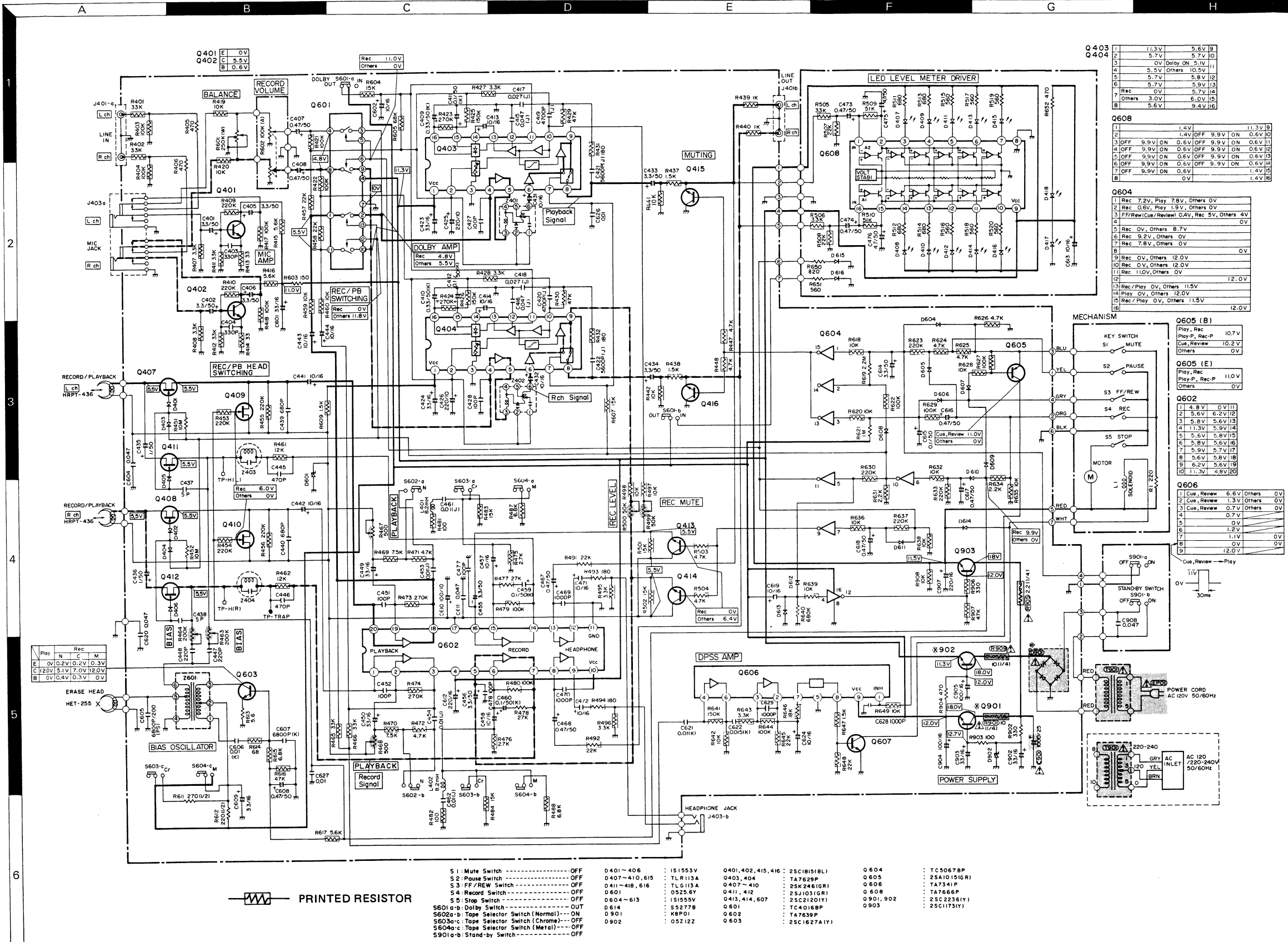


SPECIFICATIONS

Type	Stereo cassette deck with Dolby B NR system and direct program search system
Track System	4-track, 2-channel stereo/mono recording/playback
Recording System	AC bias system (Bias frequency: 85 kHz)
Erasing System	AC system
Tape Speed	4.76 cm/sec (1-7/8 ips)
Heads	Record and playback head x 1 (Hard permalloy head) Erase head x 1 (Double gap ferrite head)
Motor	Electronically controlled DC motor
Fast Winding Time	Approx. 100 seconds with C-60 tape
Frequency Response:	20 Hz to 15,000 Hz (30 Hz to 14,000 Hz ± 3 dB)
Normal Tape	20 Hz to 16,000 Hz (30 Hz to 15,000 Hz ± 3 dB)
CrO ₂ Tape	20 Hz to 16,000 Hz (30 Hz to 15,000 Hz ± 3 dB)
Metal Tape	20 Hz to 16,000 Hz (30 Hz to 15,000 Hz ± 3 dB)
Signal-to-Noise Ratio:	64 dB (Metal tape)
Dolby NR ON	56 dB (Metal tape)
Dolby NR OFF	56 dB (Metal tape)
Harmonic Distortion	Less than 0.9% (at 1 kHz, 0 VU with Normal tape)
Wow and Flutter	0.055% (W R M S)
Input Sensitivity/Impedance:	70 mV/50 kohms
LINE x 2	0.5 mV/33 kohms
Microphones x 2	70 mV/50 kohms
Output Level/Load Impedance:	360 mV (0 VU)/2.7 kohms
LINE x 2	0.1 mV/8 ohms
Headphones x 1	Normal: KENWOOD ND/ND-X60, TDK AD/AD-X60 AC 120V/220-240V (Switchable), 50/60 Hz Other countries
Power Requirements	11 watts (U.S.A. and Canada) 14 watts (Others)
Power Consumption	14 watts (U.S.A. and Canada) 14 watts (Others)
Dimensions	W: 420 mm (16-1/2") H: 112 mm (4-13/32") D: 278 mm (10-15/16")
Weight	3.5 kg (7.7 lb)
Supplied Accessories	Audio connection cable x 2 Head cleaning set x 1
Reference Tapes	Normal: KENWOOD ND/ND-X60, TDK AD/AD-X60 CrO ₂ : KENWOOD CD-60, TDK SA-60 Metal: KENWOOD MD-60, TDK MA-R-60

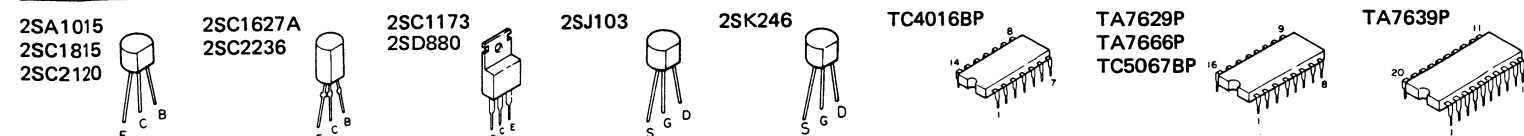
Kenwood follows a policy of continuous advancements in development. For this reason specifications may be changed without notice. DOLBY and the double-D symbol are trademarks of Dolby Laboratories Licensing Corporation. Noise reduction circuit made under license from Dolby Laboratories Licensing Corporation. Kenwood poursuit une politique de progrès constants en ce qui concerne le développement. Pour cette raison, les spécifications sont sujettes à modifications sans préavis. La marque DOLBY et le double "D" sont des marques déposées des Dolby Laboratories. Le système de réduction du bruit de fond est fabriqué sous licence des Dolby Laboratories. Kenwood strebt ständige Verbesserungen in der Entwicklung an. Daher bleiben Änderungen der technischen Daten jederzeit vorbehalten. DOLBY und Doppel-D-Symbol sind eingetragene Warenzeichen der Dolby Laboratories. Dolby-Rauschunterdrückung mit Lizenz der Dolby Laboratories gefertigt.

- DC voltages are as measured with a high impedance voltmeter with a cassette loaded at playback mode. Values may vary slightly due to variations between individual instruments or/and units. Bias circuit DC voltages are as measured while in the record mode.
- Les tensions c.c. doivent être mesurées avec un voltmètre à haute impédance, une cassette étant insérée en mode de lecture. Les valeurs peuvent différer légèrement du fait des variations inhérentes aux appareils et aux instruments de mesure individuelles. Les tensions c.c. du circuit de polarité doivent être mesurées. l'appareil étant en mode d'enregistrement.
- Die angegebenen Gleichspannungswerte wurden bei eingesetzter Cassette in der Wiedergabe mit einem hochohmigen Voltmeter gemessen. Dabei schwanken die Meßwerte aufgrund von Unterschieden zwischen einzelnen Instrumenten oder Geräten u.U. geringfügig. Die angegebenen Gleichspannungswerte der Vormagnetisierungsschaltung wurden in der Aufnahme-Betriebsart gemessen.



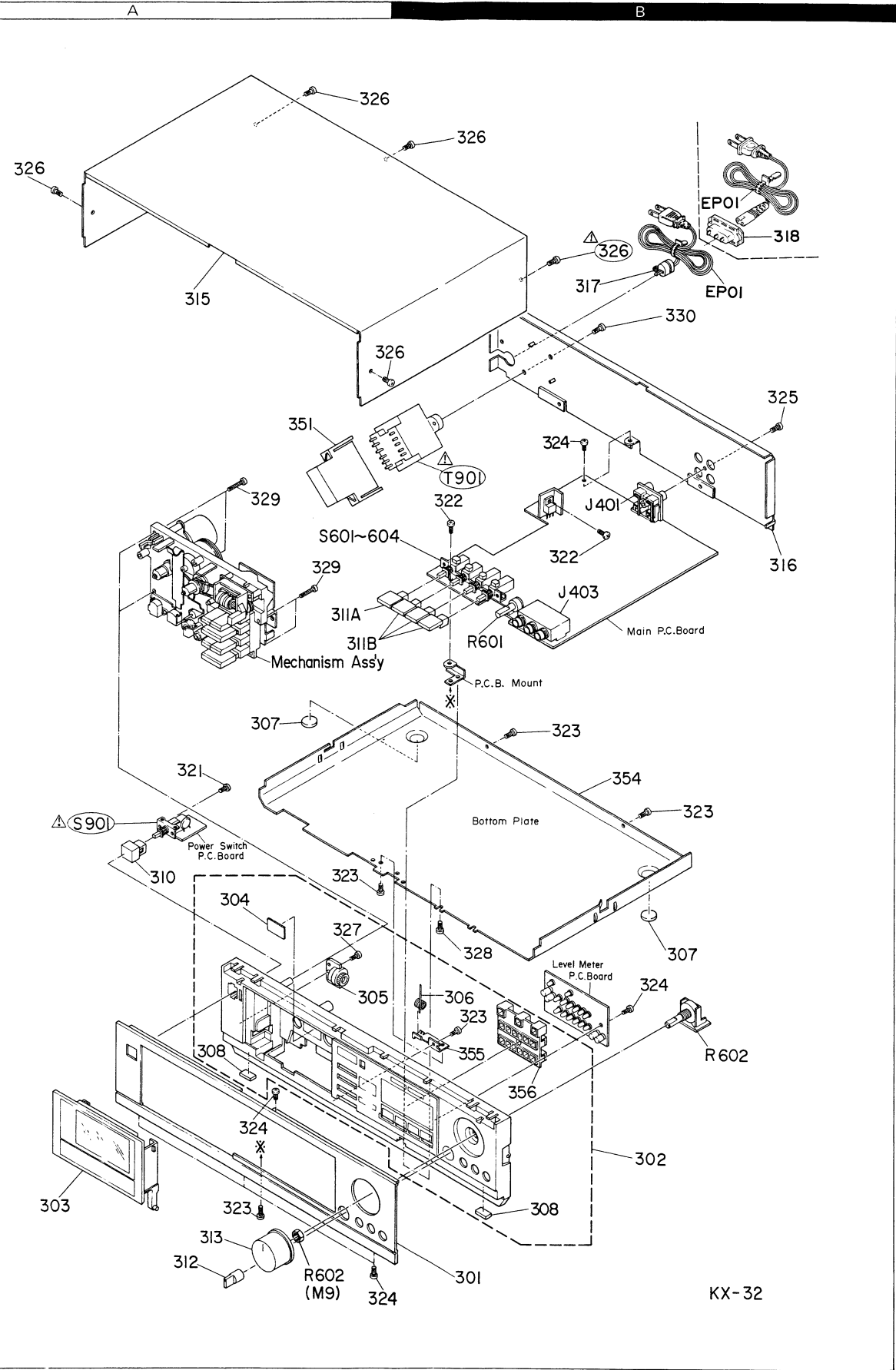
PRINTED RESISTOR

S 1 Mute Switch	OFF	401 ~ 406	1S1553V	Q401, 402, 415, 416	2SC1815(BL)	Q 604	TC5067BP
S 2 Pause Switch	OFF	407 ~ 410, 615	TLR113A	Q403, 404	TA7629P	Q 605	2SA1015(GR)
S 3 FF/REW Switch	OFF	411 ~ 418, 616	TLG113A	Q407 ~ 410	2SK246(GR)	Q 606	TA7541P
S 4 Record Switch	OFF	601	Q325-4Y	Q411, 412	2S1031(GR)	Q 608	TA7666P
S 5 Stop Switch	OFF	604 ~ 613	1S1555V	Q413, 414, 607	2SC2120(Y)	Q901, 902	2SC2236(Y)
S601 a-b: Dolby Switch	OUT	614	S5277B	601	TC4016BP	Q903	2SC1173(Y)
S602 a-b: Tape Selector Switch (Normal)	DN	901	K8P01	Q602	TA7639P		
S603 a-c: Tape Selector Switch (Chrome)	OFF	D902	05212Z	Q603	2SC1627A(Y)		
S604 a-c: Tape Selector Switch (Metal)	OFF						
S901 a-b: Stand-by Switch	OFF						

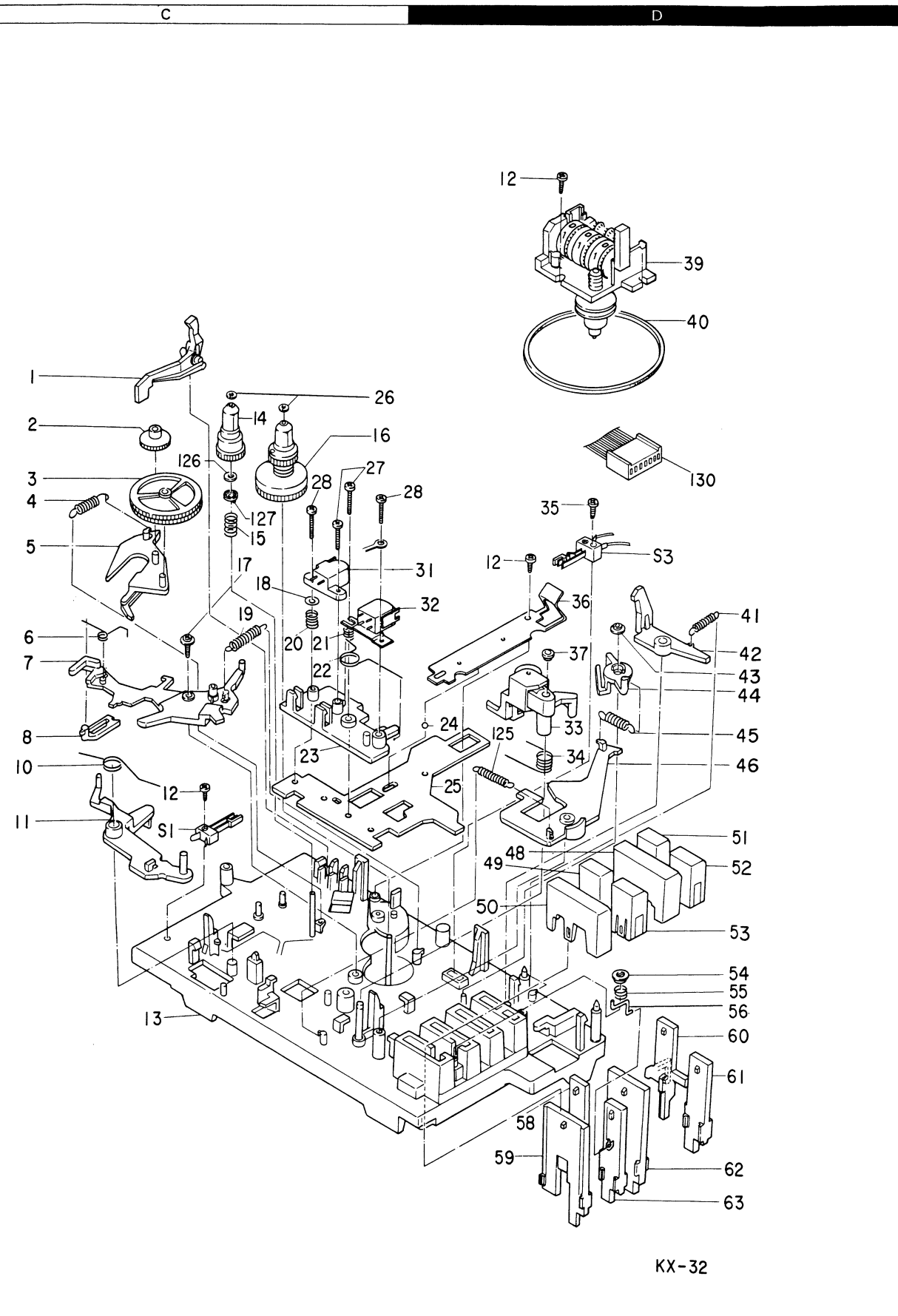


CAUTION: For continued safety, replace safety critical components only with manufacturer's recommended parts (refer to parts list). Δ Indicates safety critical components. To reduce the risk of electric shock, leakage-current or resistance measurements shall be carried out (exposed parts are acceptably insulated from the supply circuit) before the appliance is returned to the customer.

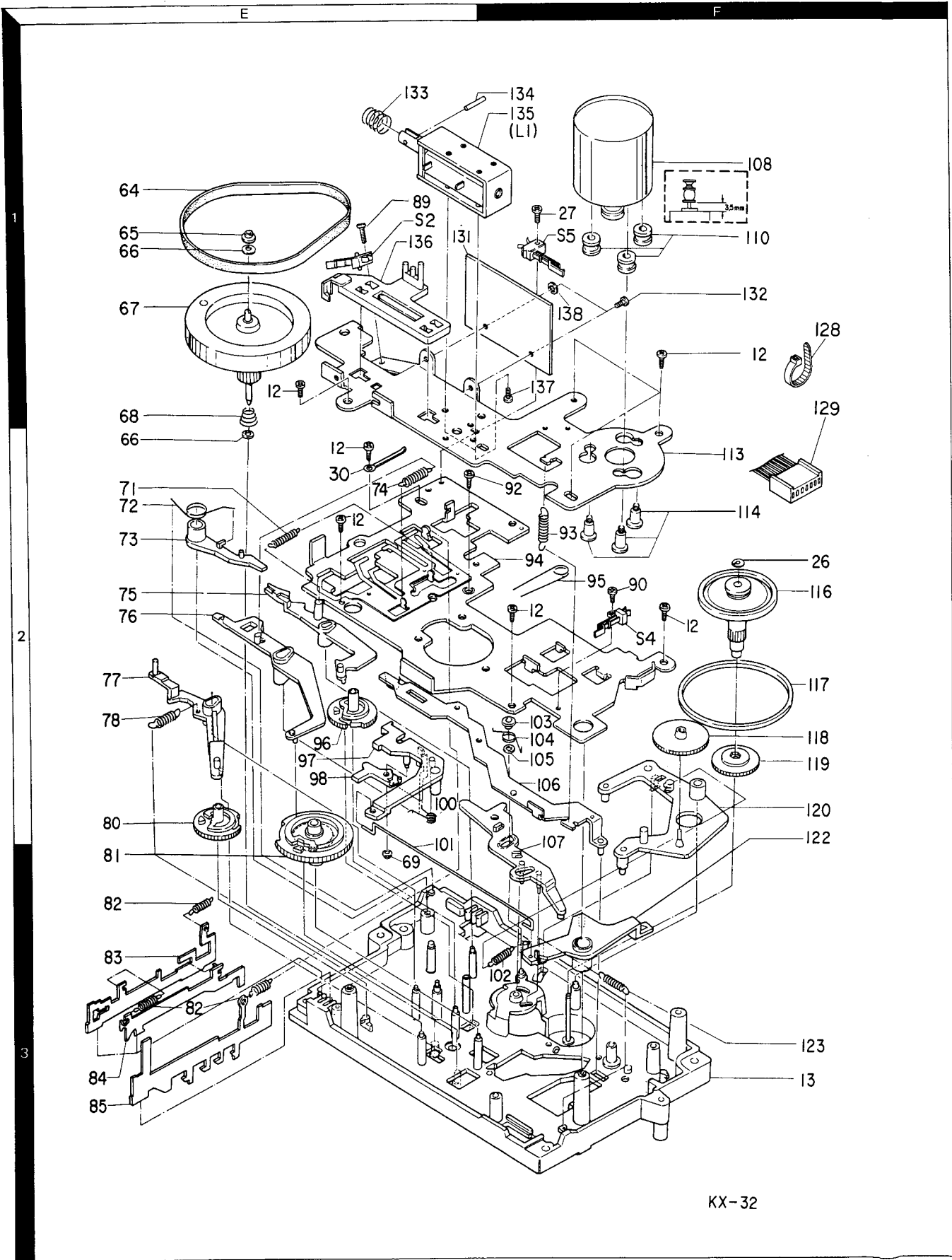
EXPLODED VIEW



EXPLODED VIEW (MECHANISM) (1)



EXPLODED VIEW (MECHANISM) (2)



KX-32

PARTS LIST

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Ref. No. 参照番号	Address 位置	New Parts 新	Parts No. 部品番号	Description 部品名 / 規格	Desti- nation 仕向	Re- marks 備考
KX-32						
301	3B	*	95829517	FRONT PANEL		
301	3B	*	95829541	FRONT PANEL (KX-32B)		
302	3B	*	95839307	SUB PANEL	PUEE	
302	3B	*	95839307	SUB PANEL	TXM	
302	3B	*	95839320	SUB PANEL	K	
303	3A	*	95832796	CASSETTE HOLDER	T	
303	3A	*	95832803	CASSETTE HOLDER	KPUUE	
303	3A	*	95832803	CASSETTE HOLDER	EXM	
303	3A	*	95832848	CASSETTE HOLDER (KX-32B)	KPUUE	
303	3A	*	95832848	CASSETTE HOLDER (KX-32B)	XEM	
303	3A	*	95832849	CASSETTE HOLDER (KX-32B)	T	
304	3A	*	95808372	REFLECTOR		
305	3A	*	95881493	DAMPER ASSY		
306	3B	*	95775234	EJECT SPRING		
307	2A, 3B	*	95762432	FOOT		
308	3A, 3B	*	92758390	CUSHION (FOOT)		
310	2A	*	95816736	KNØB ASSY (POWER)		
311A	2A	*	95886073	KNØB (DOLBY)		
311B	2A	*	95886074	KNØB (PUSH)X3		
311B	2A	*	95886121	KNØB (PUSH)X4 (KX-32B)		
312	3A	*	95886009	KNØB (BALANCE)		
312	3A	*	95886124	KNØB (BALANCE) (KX-32B)		
313	3A	*	95837997	KNØB (REC)		
313	3A	*	95886139	KNØB (REC) (KX-32B)		
315	1A	*	95864241	TØP CØVER		
315	1A	*	95864328	TØP CØVER (KX-32B)		
317	1B	*	95845528	CØRD BUSHING	KP	
△ 318	1B	*	92169037	AC INLET	UUEET	
△ 318	1B	*	92169037	AC INLET	XM	
321	2A	*	92707461	SCREW (2.6X8) BID		
322	2B	*	92707066	SCREW (3X6) BID		
323	2A, 2B	*	92707842	SCREW (3X8) BID		
324	3A, 3B	*	92707826	SCREW (3X10) BID		
325	1B	*	92707165	SCREW (3X10) BID		
326	1A, 1B	*	92707886	SCREW (3X10) BID		
327	3A	*	92707802	SCREW (3X12) BID		
328	3B	*	92707835	SCREW (3X16) BID		
329	1A, 2A	*	92707843	SCREW (3X16) BID		
330	1B	*	92708046	SCREW (4X12) BID		
351	1A	*	95854502	TRANS CØVER		
355	3B	*	95864160	CASSETTE HØLDER MØUNT HARDWARE		
356	3B	*	95832784	METER CASE (R)		
-			92957597	WARRANTY CARD	K	
-			92957598	WARRANTY CARD	P	
-			92957599	WARRANTY CARD	UUE	
-			92957600	WARRANTY CARD	UUE	
-			92957601	WARRANTY CARD	X	
-			92957602	WARRANTY CARD	T	
-			92957603	WARRANTY CARD	E	
-	2A	*	95709015	MECHANISM ASSY		
AC01		*	92904094	INSTRUCTION MANUAL (E)	KPUUE	
AC01		*	92904094	INSTRUCTION MANUAL (E)	XM	
AC01		*	92904095	INSTRUCTION MANUAL (F)	PEXM	

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ACD1		*	92904096	INSTRUCTION MANUAL (G)	E T M	
ACD1		*	92904097	INSTRUCTION MANUAL (E)		
ACD1		*	92904098	INSTRUCTION MANUAL (SP)		
ACD2		*	92164775	AUDIO CORD		
ACD3		*	92990756	HEAD CLEANER		
△ EPO1		*	92176644	AC POWER CORD	K P E X UEUM T	
△ EPO1		*	92176649	AC POWER CORD		
△ EPO1		*	92176662	AC POWER CORD		
△ EPO1		*	92176680	AC POWER CORD		
△ EPO1		*	92176682	AC POWER CORD		
PK01		*	92921100	ITEM CARTON BOX	T KPUUE EXM T KPUUE	
PK01		*	92921101	ITEM CARTON BOX		
PK01		*	92921101	ITEM CARTON BOX		
PK01		*	92921250	ITEM CARTON BOX (KX-32B)		
PK01		*	92921251	ITEM CARTON BOX (KX-32B)		
PK01		*	92921251	ITEM CARTON BOX (KX-32B)	EXM	
PK02		*	92933519	POLYSTYRENE FIXTURE (L)		
PK03		*	92933520	POLYSTYRENE FIXTURE (R)	KP	
PK04		*	92941302	POLY BAG (POWER CORD)		
PK05		*	92941312	POLY BAG		
△ PK06		*	92941323	POLY BAG	K P UEET XM	
△ T901	2B	*	92224155	POWER TRANSFORMER		
△ T901	2B	*	92224156	POWER TRANSFORMER		
△ T901	2B	*	92224258	POWER TRANSFORMER		
△ T901	2B	*	92224258	POWER TRANSFORMER		
ELECTRIC PARTS						
C401,402			CE04W1H3R3M	ELECTRO	3.3UF	50WV
C403,404			CK45B1H331K	CERAMIC	330PF	K
C405,406			CE04W1H3R3M	ELECTRO	3.3UF	50WV
C407,408			CE04W1HR47M	ELECTRO	0.47UF	50WV
C409,410			CE04W1HR33K	ELECTRO	0.33UF	50WV
C411,412			CE04W1HR10K	ELECTRO	0.10UF	50WV
C413,414			CE04W1C100M	ELECTRO	10UF	16WV
C415,416			CQ92M1H473J	MYLAR	0.047UF	J
C417,418			CQ92M1H273J	MYLAR	0.027UF	J
C419,420			CQ92M1H472J	MYLAR	4700PF	J
C421,422			CQ92M1H562J	MYLAR	5600PF	J
C423,424			CE04W1C330M	ELECTRO	33UF	16WV
C425,426			CE04W1A221M	ELECTRO	220UF	10WV
C427,428			CC45SL1H101K	CERAMIC	100PF	K
C431,432			CE04W1C100M	ELECTRO	10UF	16WV
C433,434			CE04W1H3R3M	ELECTRO	3.3UF	50WV
C435,436			CE04W1H1R0M	ELECTRO	1.0UF	50WV
C437,438			CC45SL1H5R0D	CERAMIC	5.0PF	D
C439,440			CK45B1H681K	CERAMIC	680PF	K
C441-444			CE04W1C100M	ELECTRO	10UF	16WV
C445,446			CK45B1H471K	CERAMIC	470PF	K
C447,448			CK45B1H221K	CERAMIC	220PF	K
C449,450			CE04W1C330M	ELECTRO	33UF	16WV
C451,452			CC45SL1H101K	CERAMIC	100PF	K
C453,454			CQ92M1H103J	MYLAR	0.010UF	J
C455,456			CE04W1H3R3M	ELECTRO	3.3UF	50WV
C457,458			CE04W1C100M	ELECTRO	10UF	16WV
C459,460			CE04W1HR10K	ELECTRO	0.10UF	50WV
C461,462			CQ92M1H103J	MYLAR	0.010UF	J

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C467,468 C469,470 C471,472 C473,474 C475,476			CE04W1HR47M CK45B1H102K CE04W1C100M CE04W1HR47M CE04W1H4R7M	ELECTRØ 0.47UF 50WV CERAMIC 0.001UF K ELECTRØ 10UF 16WV ELECTRØ 0.47UF 50WV ELECTRØ 4.7UF 50WV		
C477,478 C601 C602 C604 C605			CC45SL1H101K CE04W1C330M CE04W1C100M CK45F1H473Z CQ09S2D682J	CERAMIC 100PF K ELECTRØ 33UF 16WV ELECTRØ 10UF 16WV CERAMIC 0.047UF Z POLYSTY 6800PF J		
C606 C607 C608 C609 C610			CQ92M1H103K CQ92M1H682K CE04W1HR47M CE04W1C330M CE04W1A101M	MYLAR 0.01UF K MYLAR 0.0068UF K ELECTRØ 0.47UF 50WV ELECTRØ 33UF 16WV ELECTRØ 100UF 10WV		
C611 C612 C613 C614 C615			CK45F1H473Z CE04W1C221M CE04W1C100M CE04W1H3R3M CE04W1HR10K	CERAMIC 0.047UF Z ELECTRØ 220UF 16WV ELECTRØ 10UF 16WV ELECTRØ 3.3UF 50WV ELECTRØ 0.10UF 50WV		
C616-618 C619 C620 C621 C622			CE04W1HR47M CE04W1C100M CK45F1H473Z CQ92M1H103K CQ92M1H153K	ELECTRØ 0.47UF 50WV ELECTRØ 10UF 16WV CERAMIC 0.047UF Z MYLAR 0.01UF K MYLAR 0.015UF K		
C624 C626,627 C628,629			CE04W1C100M CK45F1H103Z CK45B1H102K	ELECTRØ 10UF 16WV CERAMIC 0.01UF Z CERAMIC 0.001UF K		
C901 C902,903			CE04W1E102M CE04W1C330M	ELECTRØ 1000UF 25WV ELECTRØ 33UF 16WV		
C904,905 C907 C908			CE04W1C101M CE04W1C221M CK45F1H473Z	ELECTRØ 100UF 16WV ELECTRØ 220UF 16WV CERAMIC 0.047UF Z		
J401 J403	2B 2B		92163887 92163948	PHONE JACK PHONE JACK		
L401,402 Z401,402 Z403,404 Z601			92232278 92153278 92153229 92235231	COIL FILTER COIL OSCILLATING COIL		
R463,464 R467,468 R499,500 R601 R602	2B 3B		92658719 92658715 92658718 92620054 92651588	TRIM PØT. 200K BIAS TRIM PØT. 500 PLAYBACK LEVEL TRIM PØT. 50K REC LEVEL POTENTIØMETER 250K REC BALANCE POTENTIØMETER 100K REC LEVEL		
R611 R612			RD14BY2H271J RD14BY2H221J	RD 270 J 1/2W RD 220 J 1/2W		
R901 R905 R909			92500278 92500272 92500278	FUSE RESIST 10 J 1/4W FUSE RESIST 2.2 J 1/4W FUSE RESIST 10 J 1/4W		
S601-604 S901	2B 2A		92196286 92196058	PUSH SWITCH PUSH SWITCH POWER		
D401-406 D407-410			1S1553V TLR113A	DIØDE LED		

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D411-418 D601 D604-613 D614 D615			TLG113A 05Z5.6Y 1S1555V S5277B TLR113A	LED ZENER DIODE DIODE DIODE LED		
D616			TLG113A	LED		
△ △ △ D901 D901 D901 D902			KBP01 KBP01 KBP01-E 05Z12Z	DIODE DIODE DIODE ZENER DIODE	KPUUE XM T	
Q401,402 Q403,404 Q407-410 Q411,412 Q413,414			2SC1815(BL) TA7629P 2SK246(GR) 2SJ103(GR) 2SC2120(Y)	TRANSISTOR IC FET FET TRANSISTOR		
Q415,416 Q601 Q602 Q603 Q604			2SC1815(BL) TC4016BP TA7639P 2SC1627A(Y) TC5067BP	TRANSISTOR IC IC TRANSISTOR IC		
Q605 Q608 Q901 Q901,902 Q902			2SA1015(GR) TA7666P 2SC2236(Y) 2SD880(Y) 2SD880(Y)	TRANSISTOR IC TRANSISTOR TRANSISTOR TRANSISTOR	KP UUEET KP	
Q903			2SC1173(Y)	TRANSISTOR		
MECHANISM						
1	1C	*	95782511	LEVER (REC)		
2	1C	*	95759280	GEAR (REW)		
3	2C	*	95756279	GEAR (FF)		
4	2C	*	95776432	SPRING		
5	2C	*	95782509	LEVER (HI-SPEED)		
6	2C	*	95778013	SPRING (REW)		
7	2C	*	95782507	LEVER (HI-SPEED)		
8	2C	*	95783266	SLIDER (REW)		
10	2C	*	95778008	SPRING (PLAY LEVER)		
11	2C	*	95782505	LEVER (PLAY DRIVE)		
12	2C,2D	*	92707301	SCREW (2.6X8) BID		
13	3C,3F	*	95791505	MAIN CHASSIS ASSY		
14	1C	*	95754402	SUPPLY REEL (DRAM)		
15	2C	*	95777177	SPRING		
16	1C	*	95712409	REEL PLATE ASSY (TAKE-UP)		
17	2C	*	92707825	SCREW (2.6X6) TPAN		
18	2C	*	92703281	WASHER (2.6)		
19	2C	*	95776431	SPRING		
20	2C	*	95772579	SPRING (ERASE)		
21	2C	*	95777056	SPRING (AZIMUTH)		
22	2C	*	95778007	SPRING (HEAD SLIDER)		
23	2C	*	95783265	HEAD MOUNT		
24	2D	*	95757129	STEEL BALL (2)		
25	2D	*	95741922	HEAD SLIDER		
26	1C,2F	*	95766050	WASHER		
27	1C,1F	*	92707322	SCREW (2X10) DTBID		
28	2C	*	92707669	SCREW (2X12) DTBID		
30	2E	*	92184188	WIRE HOLDER (BLK)		
31	2D	*	92218255	ERASE HEAD (HET-255)		

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PARTS LIST

* New Parts
Parts without Parts No. are not supplied.
Les articles non mentionnés dans le Parts No. ne sont pas fournis.
Teile ohne Parts No. werden nicht geliefert.

Ref. No. 参照番号	Address 位置	New Parts	Parts No. 部品番号	Description 部品名/規格	Desti- nation 仕向	Re- marks 備考
32	2D	*	92217436	RECORD HEAD (HRPT-436)		
33	2D	*	95717516	PINTCH ROLLER		
34	2D	*	95778006	SPRING		
35	2D	*	92707303	SCREW (2.6X10) BID		
36	2D	*	95779240	SPRING (HOLDER)		
37	2D	*	95783260	BUSH		
39	1D	*	95873267	COUNTER		
40	1D	*	95755529	BELT (COUNTER)		
41	2D	*	95776436	SPRING		
42	2D	*	95782512	LEVER (LOCK HOLDER)		
43	2D	*	95783195	BUSH		
44	2D	*	95782510	LEVER (AS0 PAUSE)		
45	2D	*	95776418	SPRING		
46	2D	*	95782506	LEVER (PAUSE DRIVE)		
48	2D	*	95816730	BUTTON (PLAY)		
49	2D	*	95816734	BUTTON (REC)		
50	3D	*	95816735	BUTTON (STOP)		
51	2D	*	95816732	BUTTON (REW)		
52	2D	*	95816731	BUTTON (FF)		
53	3D	*	95816733	BUTTON (PAUSE)		
54	3D	*	95783279	BUSH		
55	3D	*	95777097	SPRING		
56	3D	*	95775231	WIRE (PAUSE LOCK)		
58	3D	*	95783271	SPRING (REC)		
59	3D	*	95783272	SPRING (STOP)		
60	3D	*	95783269	SPRING (REW)		
61	3D	*	95783268	SLIDER (FF)		
62	3D	*	95783267	SLIDER (PLAY)		
63	3D	*	95783270	SLIDER (PAUSE)		
64	1E	*	95755527	BELT (DRIVE)		
65	1E	*	95725340	BEARING		
66	1E	*	95766089	WASHER		
67	1E	*	95717517	FLYWHEEL ASSY		
68	1E	*	95777108	SPRING (FLYWHEEL)		
69	3E	*	95783199	WASHER		
71	2E	*	95776564	SPRING		
72	2E	*	95778012	SPRING (AS0 LEVER)		
73	2E	*	95782521	AS0 LEVER		
74	2E	*	95776437	SPRING		
75	2E	*	95782514	LEVER (FF)		
76	2E	*	95782513	LEVER (PLAY)		
77	2E	*	95782515	LEVER (PAUSE)		
78	2E	*	95776420	SPRING		
80	2E	*	95756282	CAM GEAR (PAUSE)		
81	3E	*	95756281	CAM GEAR (PLAY)		
82	3E	*	95776417	SPRING		
83	3E	*	95741924	SWITCH SLIDER		
84	3E	*	95741925	EJECT SLIDER		
85	3E	*	95741923	LOCK SLIDER		
89	1E	*	95707169	SCREW (2.6X10) BID		
90	2F	*	92707426	SCREW (2X5) DTBID		
92	2E	*	92707299	SCREW (2X8) BID		
93	2F	*	95776445	SPRING		
94	2F	*	95734472	SUB PLATE ASSY		
95	2F	*	95778014	SPRING (REW)		

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Ref. No. 参照番号	Address 位置	New Parts 新	Parts No. 部品番号	Description 部品名/規格	Desti- nation 仕向	Re- marks 備考
96	2E	*	95756283	CAM GEAR (FF)		
97	2E	*	95782516	LEVER (STOP)		
98	2E	*	95782522	LEVER (PLAY, STOP)		
100	2E	*	95778015	SPRING		
101	3E	*	95775232	WIRE (LOCK)		
102	3E	*	95776419	SPRING		
103	2F	*	95783226	BUSH		
104	2F	*	95778011	SPRING (DETECT)		
105	2F	*	95766073	WASHER (ASB)		
106	2F	*	95717518	SLIDER ASSY (REW)		
107	3F	*	95782520	LEVER (ASB DET.)		
108	1F	*	95791637	MOTOR ASSY		
110	1F	*	95761238	CUSHION ASSY		
113	2F	*	95736981	MOTOR MOUNT HARDWARE		
114	2F	*	92707429	SCREW (2.6X1.8X4.9)		
116	2F	*	95713559	INTERMEDIATE PULLEY		
117	2F	*	95755528	BELT (INTERMEDIATE PULLEY)		
118	2F	*	95756284	GEAR (REW)		
119	2F	*	95756285	GEAR (HI-SPEED)		
120	2F	*	95782519	LEVER (REW)		
122	2F	*	95782517	LEVER (REC BIAS)		
123	3F	*	95776561	SPRING		
125	2D	*	95776431	SPRING		
126	1C	*	95764597	WASHER		
127	2C	*	95754441	SPACER (BACK TENSION)		
128	1F	*	92184221	WIRE BAND		
129	1F	*	98702494	6P SOCKET ASSY		
130	1D	*	98702495	7P SOCKET ASSY		
131	1E	*	92192381	PC BOARD		
132	1F	*	92707366	SCREW (2.6X6) DIBID		
133	1F	*	95777276	SPRING (SOLENOID)		
134	1F	*	92707183	SPRING PIN		
135	1F	*	92147258	SOLENOID COIL		
136	1E	*	95783293	SEARCH SLIDER		
137	1F	*	92701389	SCREW (2.6X3) BID		
138	1F	*	74020026	WASHER (2.6)		

SPECIFICATIONS

Type	Stereo cassette deck with Dolby B NR system and direct program search system
Track System	4-track, 2-channel stereo/mono, recording/playback
Recording System	AC bias system (Bias frequency: 85 kHz)
Erasing System	AC system
Tape Speed	4.76 cm/sec (1-7/8 ips)
Heads	Record and playback head x 1 (Hard permalloy head) Erase head x 1 (Double gap ferrite head)
Motor	Electronically controlled DC motor
Fast Winding Time	Approx. 100 seconds with C-60 tape
Frequency Response:	
Normal Tape	20 Hz to 15,000 Hz (30 Hz to 14,000 Hz, ± 3 dB)
CrO ₂ Tape	20 Hz to 16,000 Hz (30 Hz to 15,000 Hz, ± 3 dB)
Metal Tape	20 Hz to 16,000 Hz (30 Hz to 15,000 Hz, ± 3 dB)
Signal-to-Noise Ratio:	
Dolby NR ON	64 dB (Metal tape)
Dolby NR OFF	56 dB (Metal tape)
Harmonic Distortion	Less than 0.9% (at 1 kHz, 0 VU with Normal tape)
Wow and Flutter	0.055% (W.R.M.S.)
Input Sensitivity/Impedance:	
LINE x 2	70 mV/50 kohms
Microphones x 2	0.5 mV/3.3 kohms
Output Level/Load Impedance:	
LINE x 2	360 mV (0 VU)/2.7 kohms
Headphones x 1	0.1 mW/8 ohms
Power Requirements	AC 120V, 60 Hz: U.S.A. and Canada models AC 120V/220-240V (Switchable), 50/60 Hz: Other countries
Power Consumption	11 watts (U.S.A. and Canada) 14 watts (Others)
Dimensions	W: 420 mm (16-17/32") H: 112 mm (4-13/32") D: 278 mm (10-15/16")
Weight	3.5 kg (7.7 lb)
Supplied Accessories	Audio connection cable x 2 Head cleaning set x 1
Reference Tapes	Normal: KENWOOD ND/ND-X60, TDK AD/AD-X60 CrO ₂ : KENWOOD CD-60, TDK SA-60 Metal: KENWOOD MD-60, TDK MA-R-60

Note:
 We follow a policy of continuous advancements in development. For this reason specifications may be changed without notice.
 Noise reduction manufactured under license from Dolby Laboratories Licensing Corporation.
 "Dolby" and the double-D symbol are trade marks of Dolby Laboratories Licensing Corporation.

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