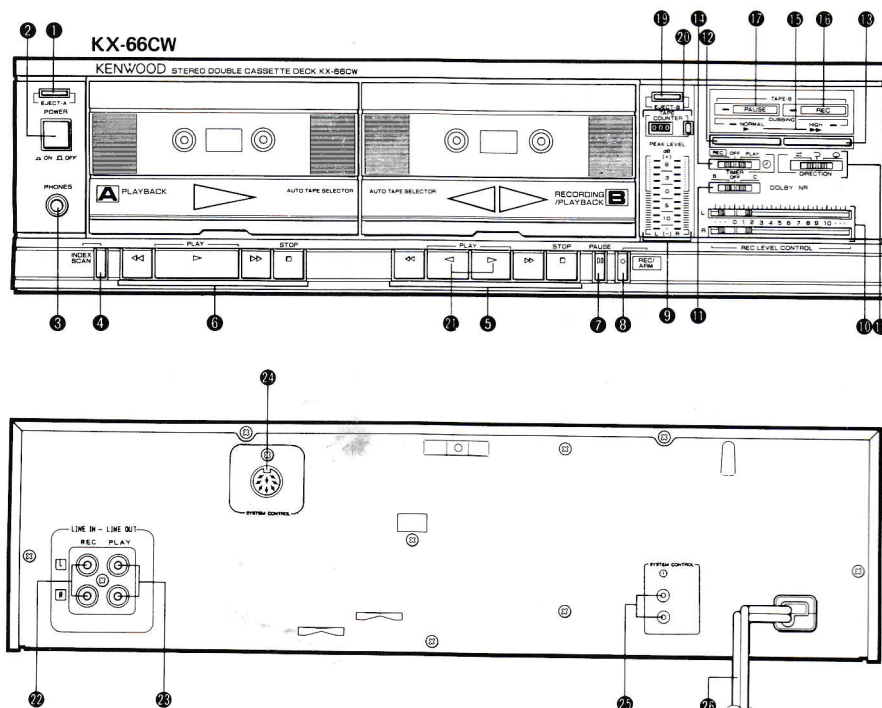


* Refer to parts list on page 38.

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CONTROLS, INDICATORS AND CONNECTORS



1 A deck EJECT button

Pressing this button opens the A deck cassette holder.

2 POWER switch

Use this switch to turn the power on and off.

3 PHONE JACK

Plug stereo headphones into this jack to monitor recordings or tape playback.

4 INDEX SCAN key (only A deck)

This key is for A deck only.

Press this key to select the desired turn. When this key is pressed, the beginning of each tune is played back for about 10 seconds.

5 B deck operation keys

• Rewind key (<<)

Press to rewind tape. Tape will move from the right reel to the left reel at high speed. When this key is pressed during playback, tunes are skipped in the reverse direc-

tion each time the key is pressed. When this key is pressed together with the forward play key (>), the tape is rewound and the tape is played back from the first tune of side A.

• Fast forward key (>>)

Press to rapidly advance the tape. Tape will move from the left reel to the right reel at high speed. When this key is pressed during playback, tunes are skipped in the forward direction each time the key is pressed.

When this key is pressed together with the reverse play key (<), the tape is rewound and the tape is played back from the first tune of side B.

• Reverse play key (<)

Press to play tape in the reverse direction (side B). When this key is pressed more than twice, the current tune is played back repeatedly (16 times). To release the current tune being played back repeatedly, press the stop key (□).

When the reverse play key (<) is pressed with tapes loaded in both A and B decks, the unit enters relay play back mode.

CONTROLS, INDICATORS AND CONNECTORS

● Forward play key (▷)

Press to play the tape in the forward direction (side A). When this key is pressed more than twice, the current tune is played back repeatedly (16 times). To release the current tune being played back repeatedly, press the stop key (□).

When the forward play key (▷) is pressed with tapes loaded in both decks, the unit enters relay playback mode.

● Stop key (□)

Press to stop tape travel. This will also release the previous mode of operation.

⑥ A deck operation key (One way for A deck)

- Rewind key (◀◀)
- Fast forward key (▷▷)
- Forward play key (▷)
- Stop key (□)

⑦ Pause key (⏸)

When this key is pressed during playback, recording, dubbing or high-speed dubbing, the unit temporarily stops.

To release playback pause mode, press the play key.

To release rec pause mode, press the REC/ARM key.

⑧ REC/ARM key

Press this key to start recording. The REC indicator lights. The recording mode can only be entered from the stop mode.

⑨ PEAK LEVEL meter

Indicate the peak values of the input levels for recording or the output levels for playback.

⑩ REC LEVEL CONTROL knobs

Adjust the right and left recording levels, with these knobs. Left and right channels can be adjusted separately.

⑪ DOLBY NR switch

To record or play back a tape with Dolby NR, set the switch to B or C.

⑫ Normal-speed dubbing key

When this key is pressed, the normal dubbing indicator lights and dubbing from Deck A to Deck B starts.

⑬ High-speed dubbing key

When this key is pressed, the high-speed dubbing indicator lights and high-speed dubbing from Deck A to Deck B starts.

⑭ TIMER stand-by switch

This switch is used along with an audio timer when an unattended recording or timer-playback is performed. Set this switch to the REC position for unattended recording, to the PLAY position for timer-playback and to the OFF position when the timer is not used. For timer operation, B deck has the priority.

⑮ Dubbing indicators

NORMAL — Lights when the normal speed dubbing key is pressed.

HIGH — Lights when the high speed dubbing key is pressed.

⑯ REC indicator

This indicator lights during recording or dubbing.

⑰ PAUSE indicator

This indicator lights when the pause key (⏸) is pressed.

⑱ DIRECTION switch

Normal mode (↔) — In this position, one side playback or recording is possible. When the end of tape is reached, the operation mode is released and the tape stops.

When the tape reaches its end in playback mode, the tape loaded on the other deck is played back.

Reverse mode (↷) — In this position, both sides can be played back or recorded. In this mode, recording and playback do not automatically change from side B to side A.

When the tape reaches its end in playback mode, the tape loaded on the other deck is played back.

Endless mode (∞) — In this position, tape is played back repeatedly. DPSS, index scan are carried out twice (2 sides).

In endless mode (∞), relay playback is not possible.

⑲ B deck EJECT/B button

Pressing this button opens the B deck cassette holder.

⑳ TAPE COUNTER and reset button

The TAPE COUNTER provides a means of locating passages on the tape. When starting a recording, set the counter 000 by depressing the reset button.

㉑ B deck FORWARD/REVERSE indicator

Shows the direction of tape travel.

㉒ REC/LINE IN jacks

Connect to the Tape Rec jacks of your amplifier using the audio cables (supplied).

㉓ PLAY/LINE OUT jacks

Connect to the Tape Play jacks of your amplifier using the audio cables (supplied).

㉔ Jack ④ (Synchro for the receiver unit)

㉕ Jack ① (Synchro for the system component)

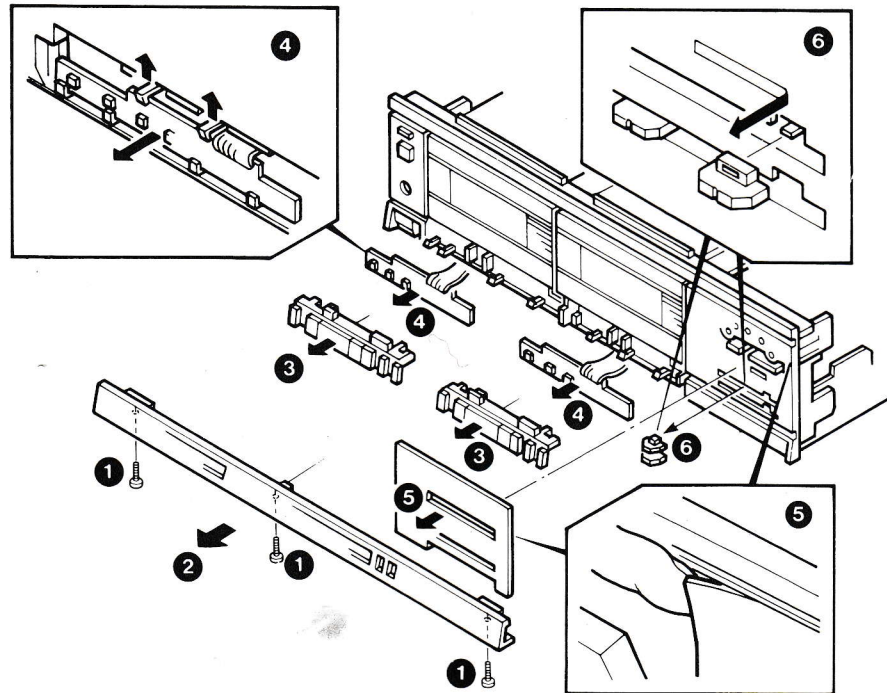
㉖ Power cord

Plug in to a convenient AC outlet.

DISASSEMBLY FOR REPAIR

1. Remove the three screws retaining the dressing plate from the bottom of the front panel (❶) and remove the dressing plate (❷).
2. Remove each control knob located on the lower side of the cassette holder (❸).

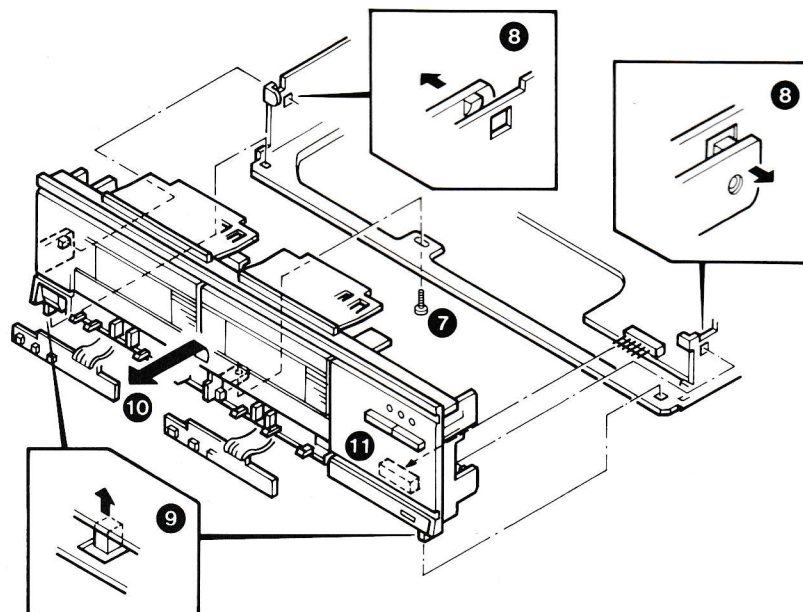
3. Remove the dressing plate mounted on the right side of the set as shown in the figure (❺).
4. Remove the knobs as shown in the figure (❻).



5. Remove the screw retaining the chassis to the front panel section (❷).
6. Remove the lugs on both ends retaining the chassis to the front panel (❸). Then slightly lift up the front panel and remove the lugs located on the bottom of the front panel (❹). Pull out the whole of the front panel section in the

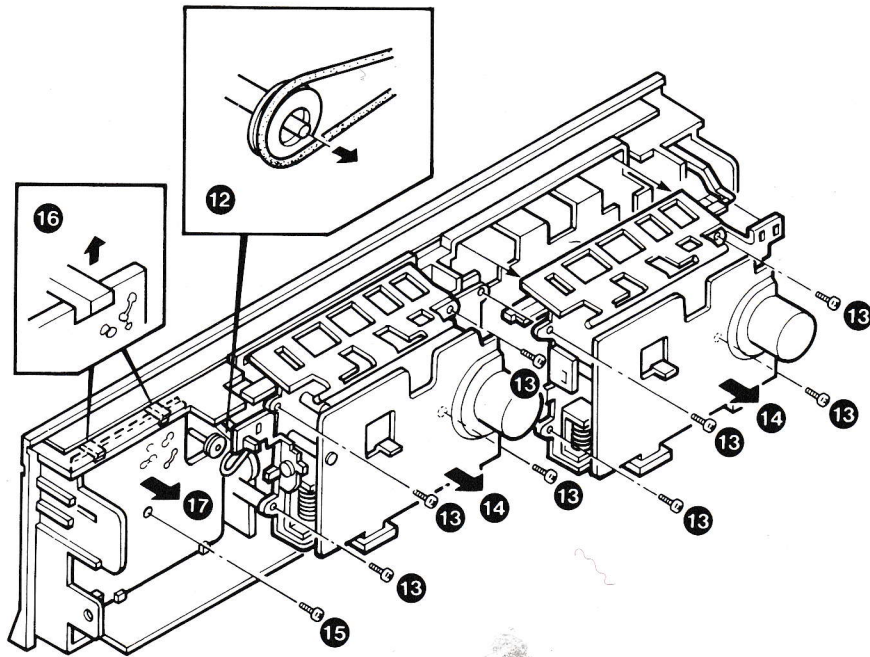
direction of the arrow (❿).

At this time, the switch unit connected to the main unit by the connectors will also be removed (⓫). When reassembling the front panel section, perform it taking care of these connectors.



DISASSEMBLY FOR REPAIR

7. Remove the rubber belt of for the tape counter (12).
8. Remove the eight screws and the metal fitting retaining the A and B mechanisms (13).
9. Pull out the both mechanisms in the direction of the arrow (14).
10. Remove the lugs retaining the switch unit (15), and remove the switch unit (16).



CIRCUIT DESCRIPTION

DESCRIPTION OF COMPONENTS

Recording/Playback Unit (X28-1820-11)

Components	Application/Functions	Operation/Conditions/Interchangeability
Q1	Head switch	OFF during high speed. ON with other speeds.
Q2	Head switch	OFF during high speed. ON with other speeds.
Q3	Head switch	ON during playback. OFF in other modes.
Q4	Head switch	ON during playback. OFF in other modes.
Q5	Head switch	ON during playback. OFF in other modes.
Q6	Head switch	ON during playback. OFF in other modes.
Q7	Head switch	ON during recording. OFF in other modes.
Q8	Head switch	ON during recording. OFF in other modes.
Q9	Line Mute	OFF during playback, recording and rec-pause. ON in other modes.
Q10	Line Mute	OFF during playback, recording and rec-pause. ON in other modes.
Q11	Buffer AMP	Impedance matching.
Q12	Buffer AMP	Impedance matching.
Q13	70 μ /120 μ switch	ON during deck A playback with mechanism A set for 70 μ s. OFF in other cases.
Q14	70 μ /120 μ switch	ON during deck B playback with mechanism B set for 70 μ s. OFF in other cases.
Q15	PB EQ Mute	OFF during playback.
Q16	PB EQ Mute	OFF during playback.
Q17	Dolby R/P switch	OFF during Dolby playback. OFF in other modes.
Q18	Dolby R/P switch	ON during Dolby playback. OFF in other modes.
Q19	Power supply for Dolby	ON during Dolby playback. OFF in other modes.
Q20	Dolby OFF/ON (Dubbing)	ON during dubbing. OFF in other modes.
Q21	Dolby OFF/ON (Dubbing)	ON during dubbing. OFF in other modes.
Q22	A/B switch	OFF during deck A playback or dubbing. ON in other modes.
Q23	A/B switch	ON during deck A playback or dubbing. OFF in other modes.
Q24	Speed switch	OFF during high speed. ON with other speeds.
Q25	Speed switch	ON during high speed. OFF with other speeds.
Q26	R/P switch	ON during playback. OFF in other modes.
Q27	R/P switch	OFF during playback. ON in other modes.
Q28	R/P switch	OFF during playback. ON in other modes.
Q29	R/P switch	OFF during playback. ON in other modes.
Q30	Bias OSC	
Q31	Tape switch	ON with metal tape. OFF with other tapes.
Q32	Tape switch	ON with CrO ₂ tape. OFF with other tapes.
Q33	Bias ON/OFF	ON during recording. OFF in other modes.
Q34	Tape selection	ON with metal tape. OFF with other tapes.
Q35	Rec mute driver	OFF during recording. ON in other modes.
Q36	Line mute driver	OFF during recording, playback and rec-pause. ON in other modes.
Q37	DPSS sensitivity switch	OFF during recording, playback and rec-pause. ON in other modes.
Q38	DPSS AMP	
Q39	DPSS AMP	

CIRCUIT DESCRIPTION

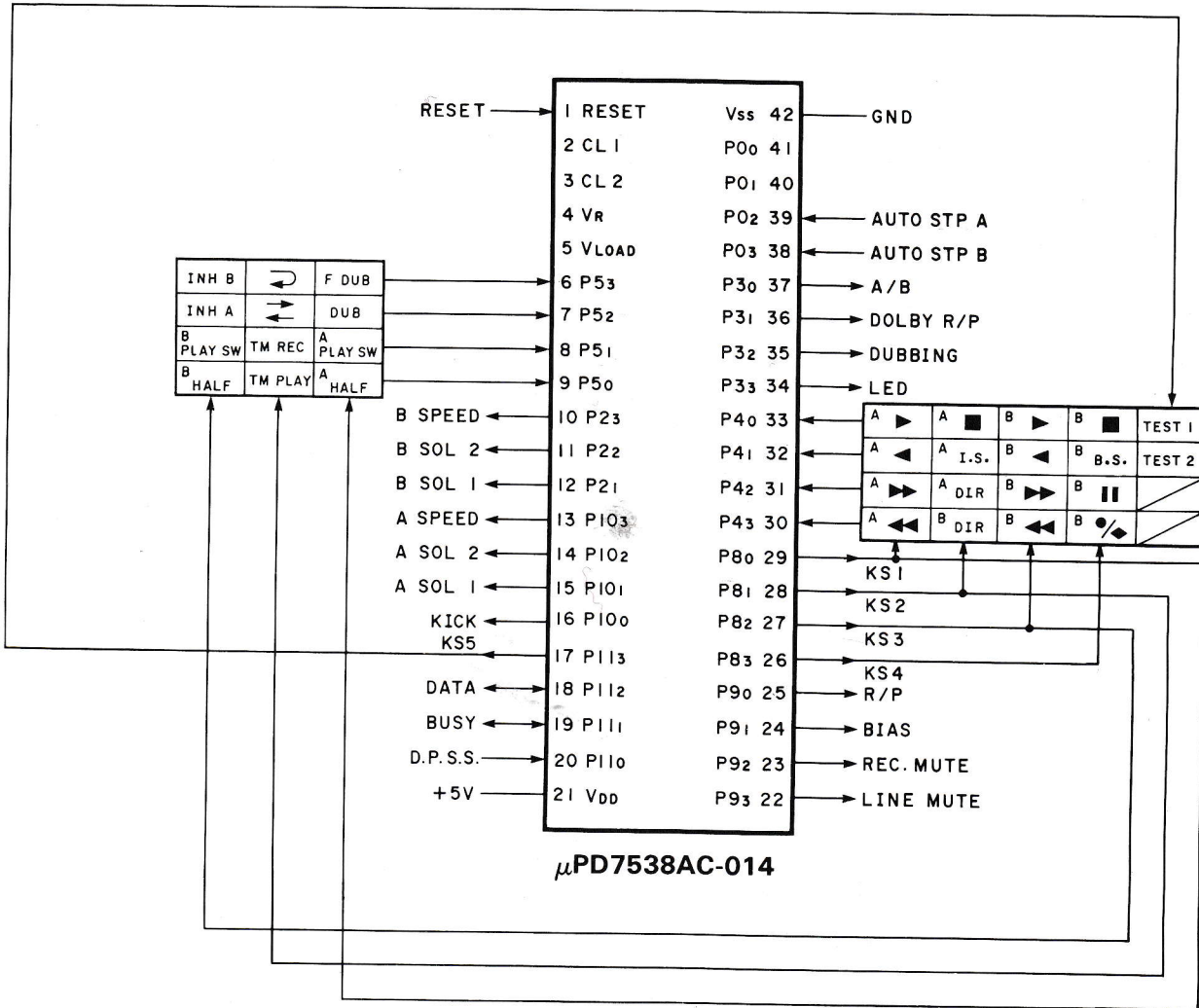
Components	Application/Functions	Operation/Conditions/Interchangeability
Q40	DPSS switch	ON when program is present. OFF when program is absent.
Q41	LED driver	
Q42	LED driver	
Q43	LED driver	
Q44	Reset	
Q45	Reset	
Q46	Deck B motor speed switch	ON during high speed. ON with other speeds.
Q47	Solenoid drive	Drives SOL 2 of deck B mechanism.
Q48	Solenoid drive	Drives SOL 1 of deck B mechanism.
Q49	Deck A motor speed switch	ON during high speed. ON with other speeds.
Q50	Solenoid drive	Drives SOL 2 of deck A mechanism.
Q51	Solenoid drive	Drives SOL 1 of deck A mechanism.
Q52	Kick driver	ON when plunger is kicked.
Q53	Kick driver	ON when plunger is kicked.
Q54	Direction switch	ON with reverse direction. OFF with other direction.
Q55	Direction switch	ON with reverse direction. OFF with other direction.
Q56	LED driver	
Q57	LED driver	
Q58	Deck B motor speed switch	ON during high speed.
Q59	Deck A motor speed switch	ON during high speed.

Recording Amplifier Unit (X87-1140-01)

Components	Application/Functions	Operation/Conditions/Interchangeability
Q1, 2	Signal muting	When pin 5 of CN2 becomes "H", Q1 and Q2 turn ON so that muting is applied to the input signals from pin 1 of CN1 and pin 9 of CN2.
IC1, 2	Equalizer selection	Those pins 1-7 of IC1 (IC2) to which pins 6 and 7 of CN1 and pins 1-4 of CN2 are connected are controlled to turn ON/OFF each equalizer device. When each input pin becomes "H", the output side (pins 10-16 of each IC) conducts with GND (pin 8) to determine the NF constant of IC3.
IC3	Recording equalizer amplifier	It operates on single power supply and is used with the input voltage pulled up to 1/2 VB. Its NF constant is determined by IC1 : IC2, thus providing the recording equalizer characteristics.

CIRCUIT DESCRIPTION

Port Layout (μ PD7538AC-014)



CIRCUIT DESCRIPTION

Port Distribution Table

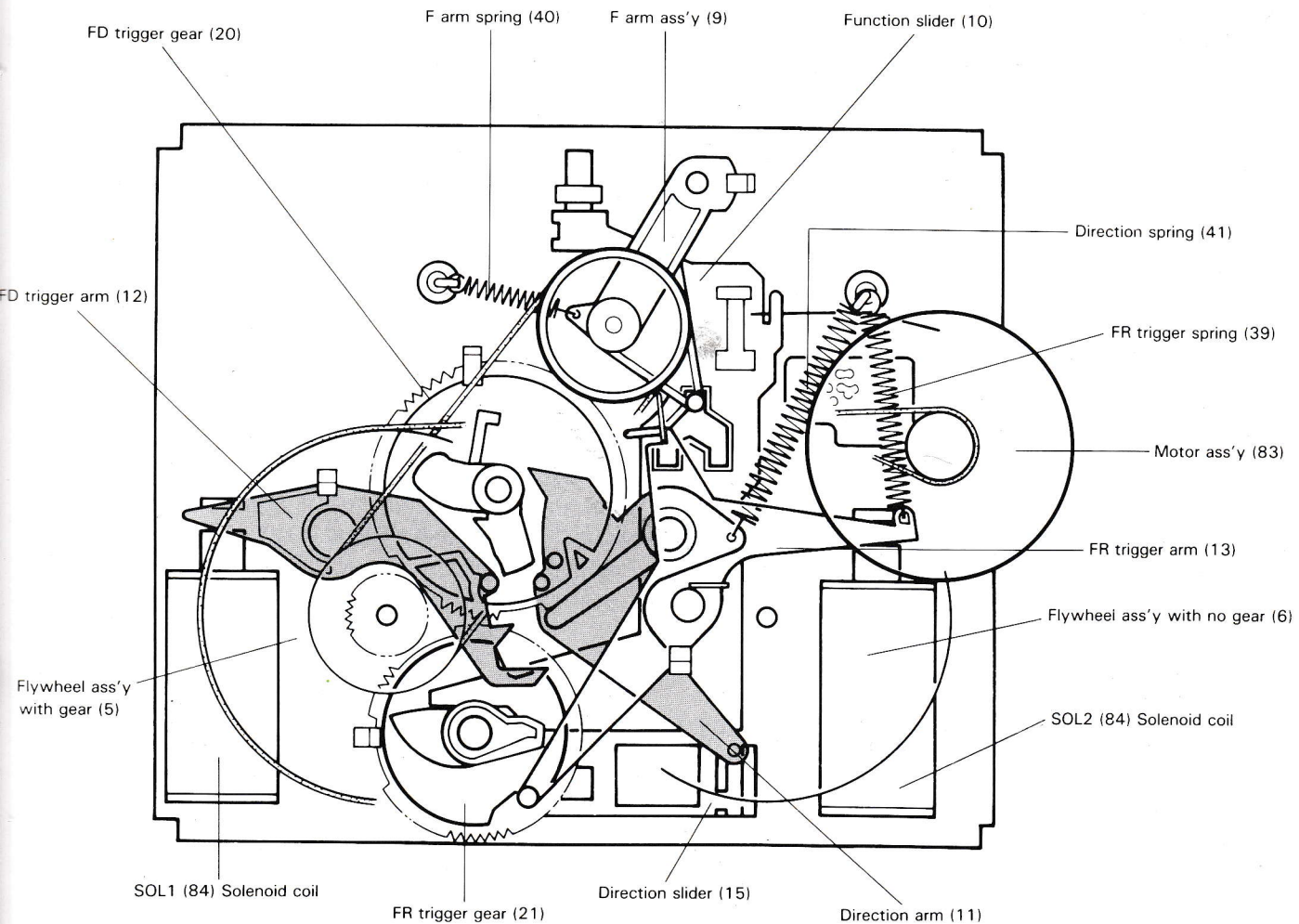
Port	Pin No.	I/O Mode	Active Mode	Function	
P0	2	39	I	H	A mechanism rotation detection sensor input
	3	38	I	H	B mechanism rotation detection sensor input
P2	1	12	O	H	B mechanism SOLENOID 1 drive output
	2	11	O	H	B mechanism SOLENOID 2 drive output
	3	10	O	H	B mechanism HIGH SPEED output
P3	0	37	O	H	Playback equalizer A/B selection output
	1	36	O	H	DOLBY R/P selection signal output
	2	35	O	H	DUBBING HIGH signal output
	3	34	O	H	LED segment drive signal
P4	0	33	I	H	KEY RETURN signal input 1
	1	32	I	H	KEY RETURN signal input 2
	2	31	I	H	KEY RETURN signal input 3
	3	30	I	H	KEY RETURN signal input 4
P5	0	9	I	H	KEY RETURN signal input 5
	1	8	I	H	KEY RETURN signal input 6
	2	7	I	H	KEY RETURN signal input 7
	3	6	I	H	KEY RETURN signal input 8
P8	0	29	O	H	KEY SCAN signal 1, F. DUB LED DRIVE
	1	28	O	H	KEY SCAN signal 2, DUB LED DRIVE
	2	27	O	H	KEY SCAN signal 3, REC LED DRIVE
	3	26	O	H	KEY SCAN signal 4, PAUSE LED DRIVE
P9	0	25	O	H	R/P selection signal output
	1	24	O	H	BIAS control signal output
	2	23	O	H	REC MUTE signal output
	3	22	O	H	LINE MUTE signal output
P10	0	16	O	H	Mechanism SOLENOID KICK output
	1	15	O	H	B mechanism SOLENOID 1 drive output
	2	14	O	H	B mechanism SOLENOID 2 drive output
	3	13	O	H	B mechanism HIGH SPEED output
P11	0	20	I	H	DPSS blank detection signal input
	1	19	I/O	H	System control serial input/output BUSY
	2	18	I/O	H	System control serial input/output DATA
	3	17	O	H	KEY SCAN signal 5

MECHANISM DESCRIPTION

This mechanism is an improvement of the mechanism (X92-1070-00) used in X-7WS, KX-949W and KX-95W. A figure () in a following drawing denotes a reference

number in the parts list.

Drawings are rear perspective view, unless otherwise specified.



Parts layout

Driving Power	: More than 100g·cm
Take up Torque	: 30 ~ 75g·cm
FF. REW Torque	: 75 ~ 140g·cm
Back Tension Torqu	: 2 ~ 4g·cm

MECHANISM DESCRIPTION

1. OUTLINE

- Rotation transmission** : Rotation is transmitted from the motor as indicated by the arrow (➔) in Fig. 1.
- FD trigger gear** : For PLAY and direction reversion. Drives the sub chassis and the direction arm.
- FD trigger arm** : For PLAY and direction reversion. Driven by the solenoid 1 to control the FD trigger gear.
- FR trigger gear** : For FF and REW. Drives the function slider.

- FR trigger arm** : For FF and REW. Driven by the solenoid 2 to control the FR trigger gear.
- Direction arm** : For direction reversion. Drives the direction slider.
- Direction slider** : For direction reversion. Controls the head, pinch roller and switch.
- Function slider** : For FF and REW. Controls the F arm ass'y.

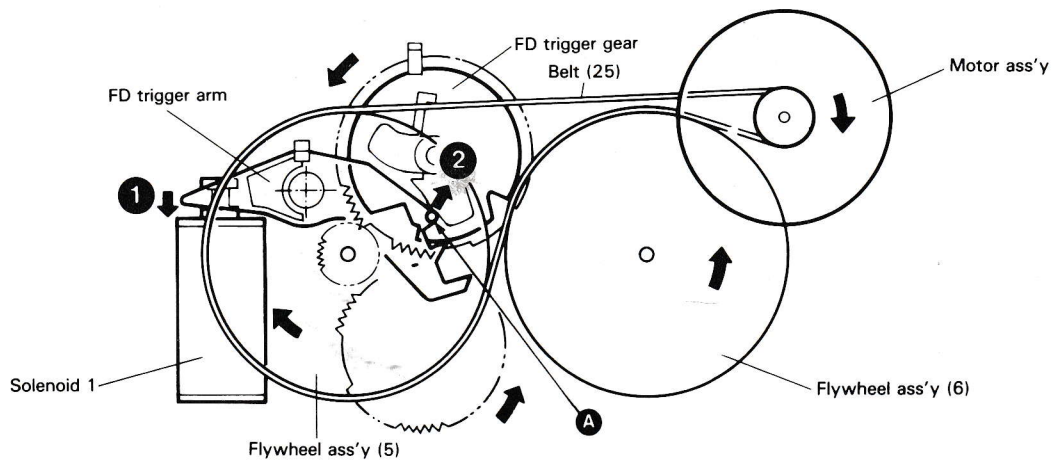


Fig. 1 Transmission of rotation

2. OPERATION IN EACH MODE

2-1 Forward play (FWD PLAY) operation (Figs. 1 and 2)

When the PLAY key is pressed, the PLAY signal is transmitted from the microprocessor. Thus, the solenoid 1 is attracted and released once to pull the FD trigger arm.

The FD trigger arm rotates in the direction of arrow ② (Fig. 1) and the boss ④ is disengaged from the protrusion of the FD trigger gear so that the FD trigger gear is engaged with the flywheel gear and rotated in the direction of the arrow (Fig. 2). Then, the cam (A) located at the rear of the FD trigger gear

pushes upwards the tongue of the sub chassis (802) to lift the head. At the same time, the cams on the rear of the FD trigger gear controls the direction arm to move the direction slider in the FWD direction (arrow ①) to select the FWD side record/erase head and pinch roller (arrows ②, ③, ④ and ⑤) (Fig. 2).

During this time, the solenoid 1 is attracted and released again.

MECHANISM DESCRIPTION

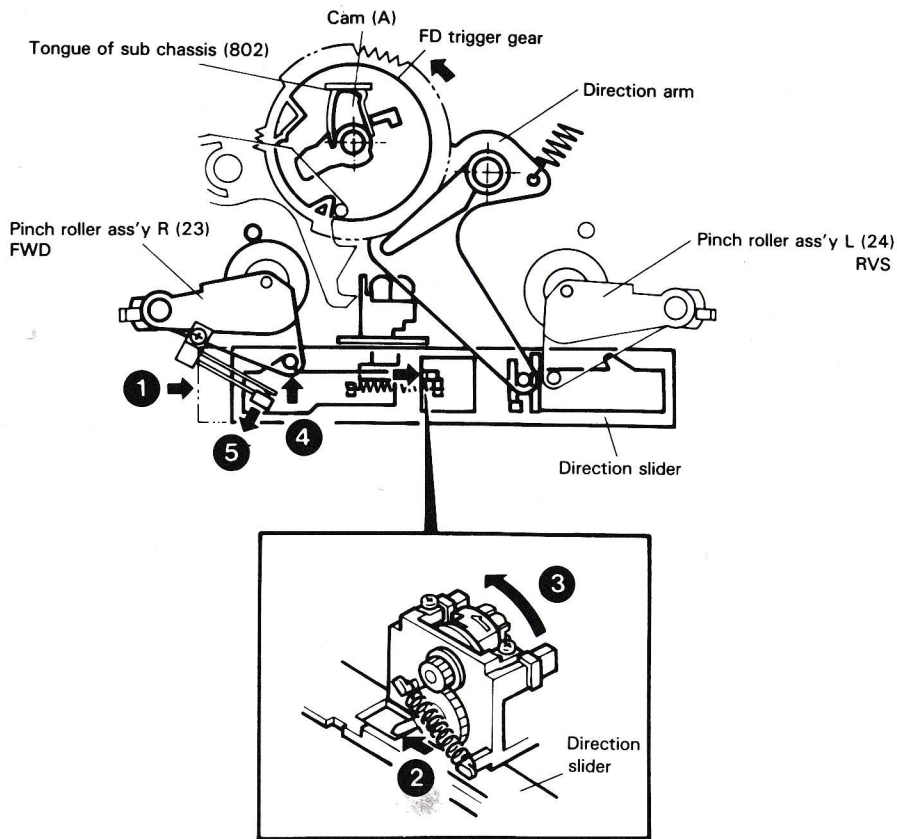


Fig. 2 Status of forward play

2-2 Reverse play (RVS PLAY) operation (Fig. 3)

By the RVS PLAY signal, the solenoid 1 is attracted to rotate the FD trigger arm. Thereby, the stopper of the FD trigger gear is released from the FD trigger arm and starts rotating. The solenoid 1 is kept as it is for a certain time (about 1/2 rotation of the gear), after which it is released.

By the cam on the rear of the gear, the direction arm rotates to move the direction slider in the RVS direction (arrow 1) (Fig. 3). As the head (sub chassis) rises, the pin of the pinch roller (L) is put into the concave section B of the direction slider so that the pinch roller (L) presses against its corresponding capstan only in the RVS side.

Then, the head rotates in the direction of arrow 2, the reverse mode switch is turned ON due to the motion of the section indicated by arrow 3 so that the reverse play mode is entered.

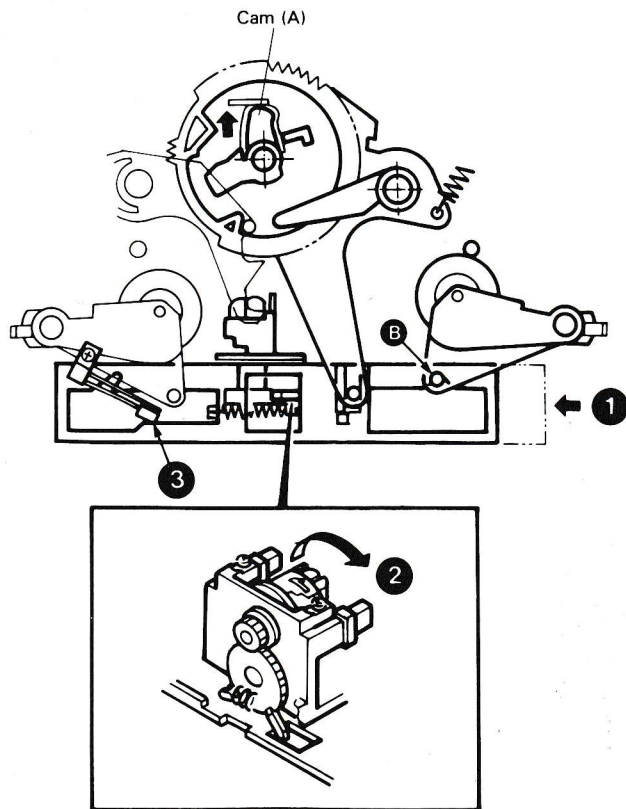


Fig. 3 Status of reverse play

MECHANISM DESCRIPTION

2-3 FF operation (Figs. 4 and 5)

In the FF operation, the solenoid 2 is attracted twice, after which it is held ①. When the solenoid 2 comes to the ON position, attracted, the FR trigger arm rotates in the direction of arrow ② so that the FR trigger gear rotates in the direction of arrow ③ (Fig. 4).

The FR trigger gear starts rotation due to engagement with

the flywheel gear and the function slider is pushed upwards in the direction of arrow ④ by the cam (B) located on the rear. The F arm ass'y is always pulled in the direction of arrow ⑤ by the F arm spring (40). At this time, as the solenoid 2 is in the OFF position, the pin (a) of the F arm ass'y enters into the groove F of the function slider in a natural manner. (Fig. 4)

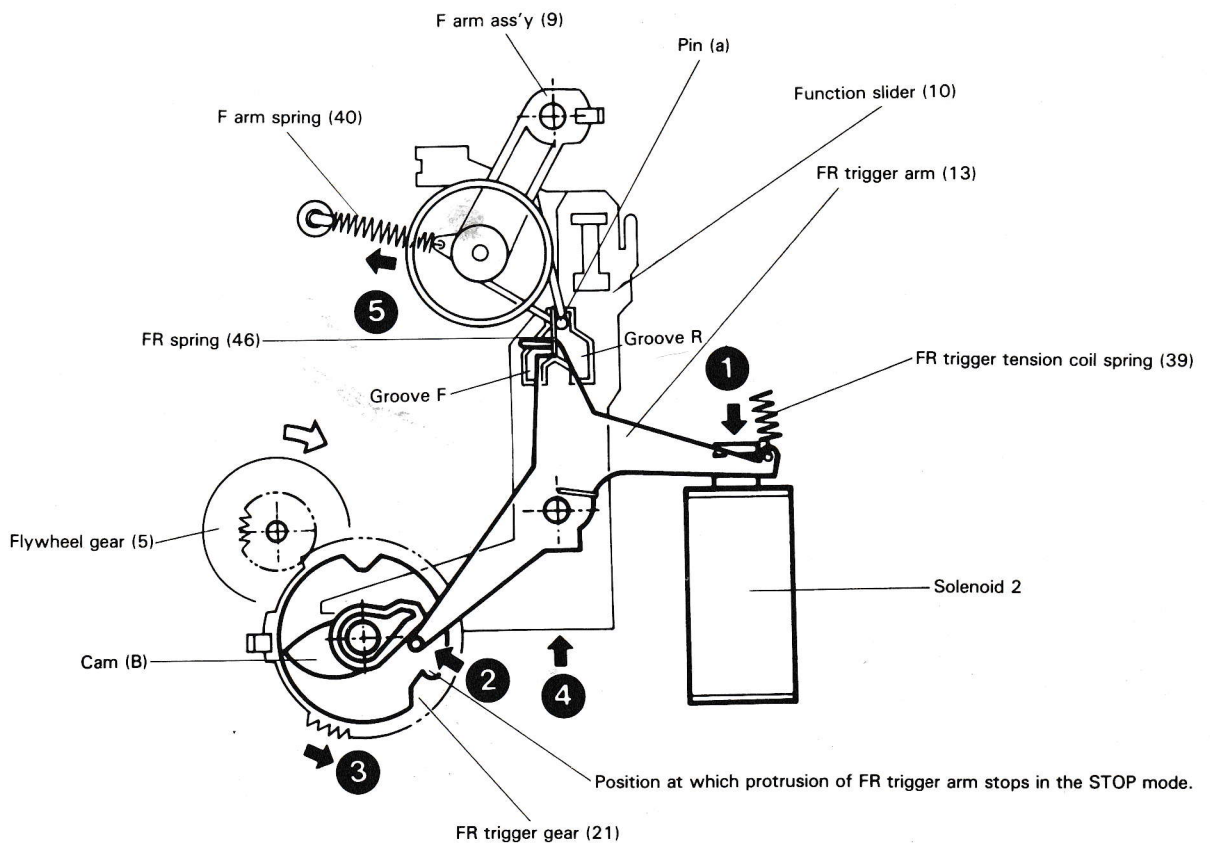


Fig. 4 When FR trigger gear starts rotating

MECHANISM DESCRIPTION

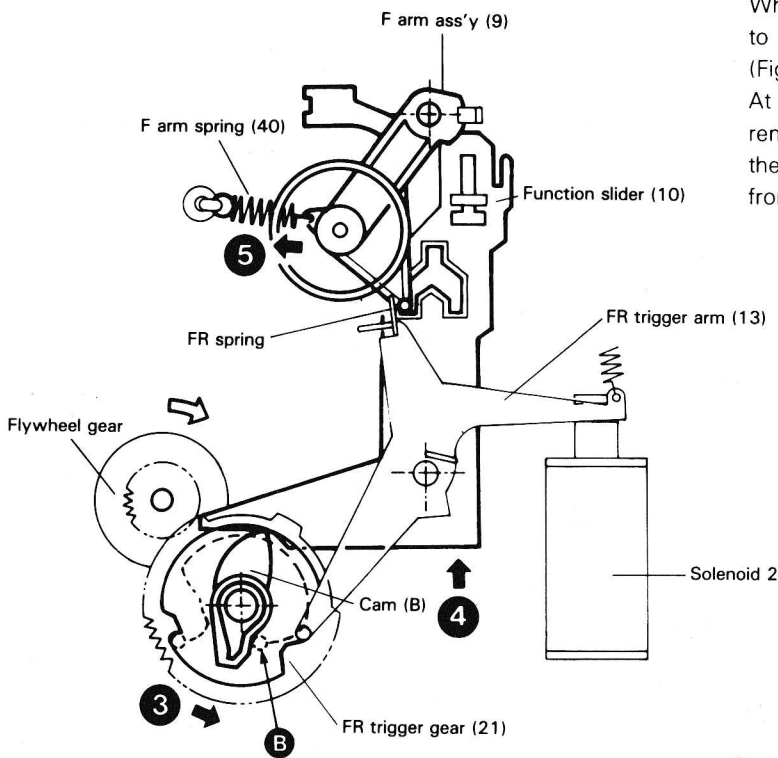


Fig. 5 Right before solenoid 2 is held

When the pin (a) is put into the groove, the solenoid 2 comes to the ON position again and is held in this position as it is. (Fig. 5)

At this time, the FR spring attached to the FR trigger arm remains bent. The FR trigger gear is held by the touching of the FR trigger arm pin against the section **B** of the cam in the front, in which state the FF mode is entered.

2-4 Rewind (REW) operation (Fig. 6)

In the rewind operation, the solenoid 2 is attracted once and held. Thus, the FR trigger arm is moved to the direction of arrow **2**. By the FR spring, the F arm ass'y moves to the direction of arrow **5** and the pin (a) is put into the groove R of the function slider. When the FR trigger gear is held by the pin of the FR trigger arm, the rewind mode is entered.

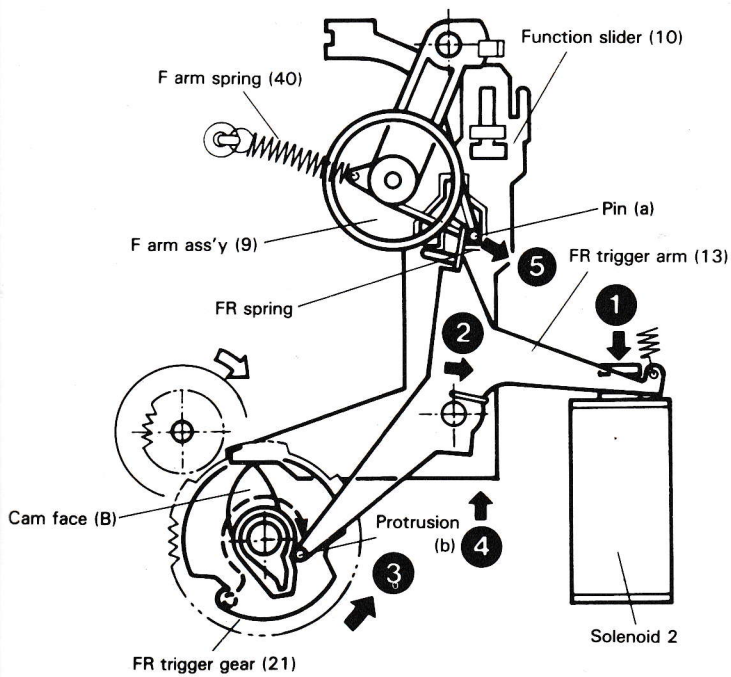


Fig. 6 Rewind mode

MECHANISM DESCRIPTION

2-5 DPSS (Direct Program Search System) operation, and cue/review (REV) operation

In the DPSS operation, on the attracting timing of the solenoids 1 and 2, the head is put away from the tape and also the pinch roller is released from the capstan. The solenoid 1 is attracted twice, after which it is held.

The FD trigger gear is locked by the cam (B) and the FD trigger arm pin at the position at which it rotates slightly more than in the normal forward or reverse play.

In this position, the sub chassis lowers slightly than in the PLAY position, in which state the head and the pinch roller are put away in the direction of arrow ③.

Then the solenoid 2 is attracted. Thus, the tape is wound at high speed by the FF or REW operation and the interval between tunes is searched for.

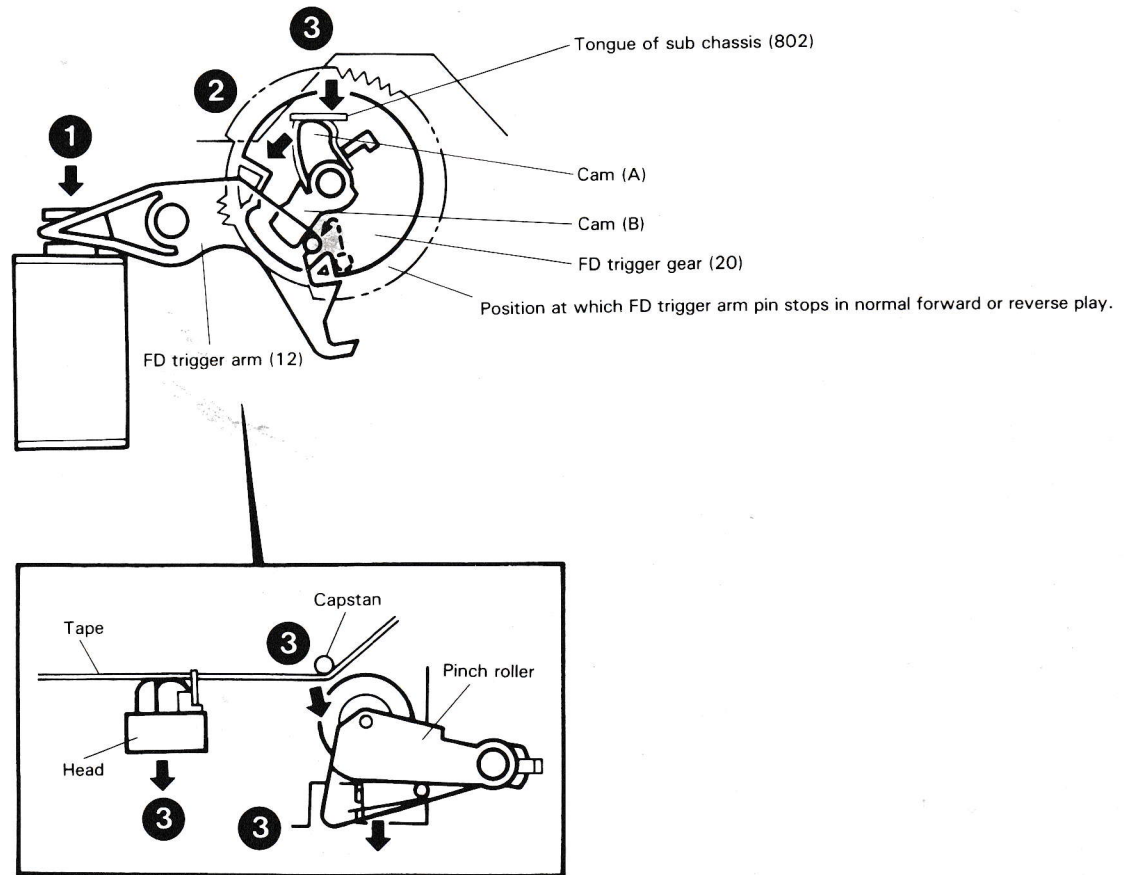
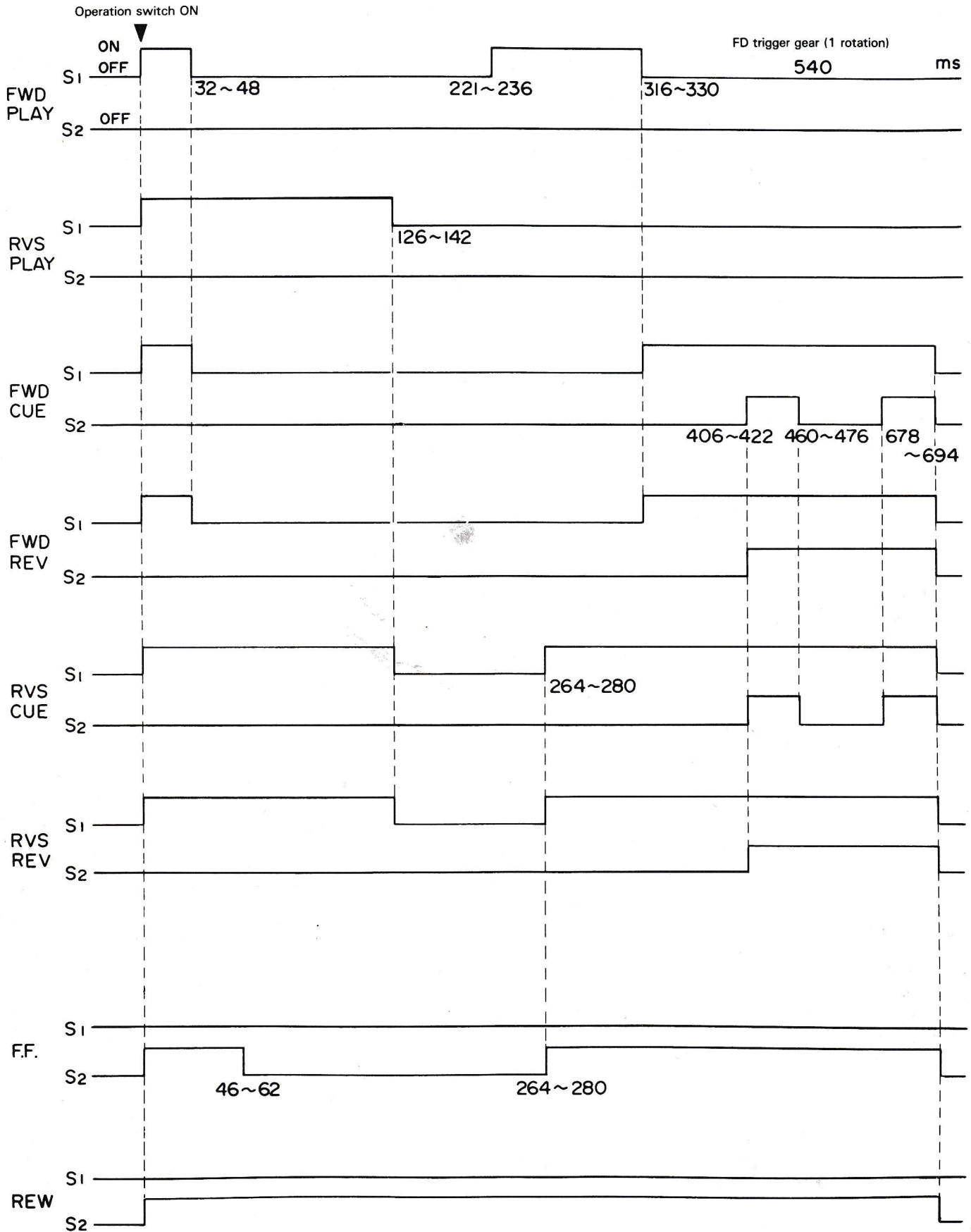


Fig. 7 DPSS operation

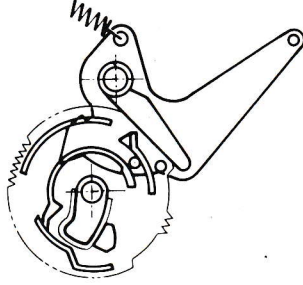
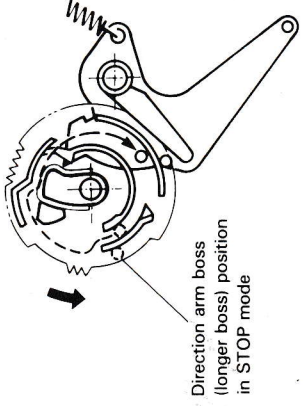
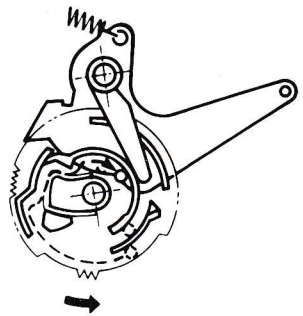
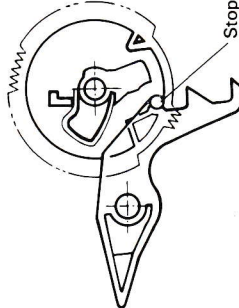
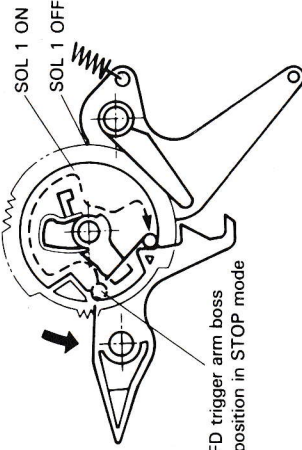
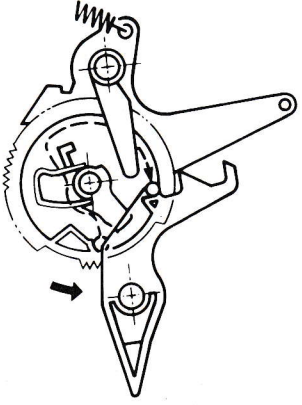
MECHANISM DESCRIPTION

3. Solenoid timing chart



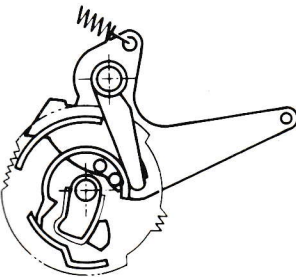
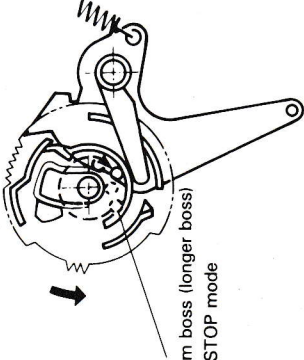
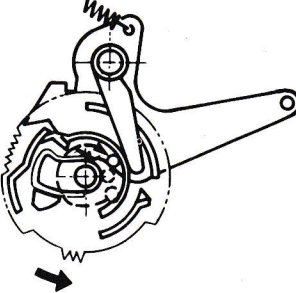
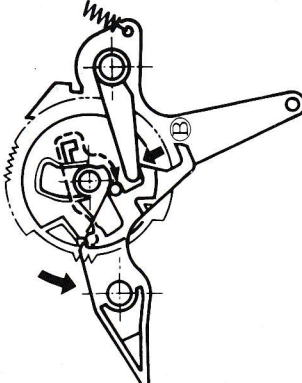
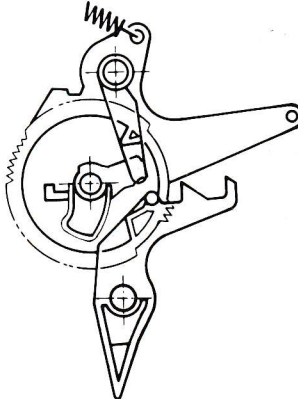
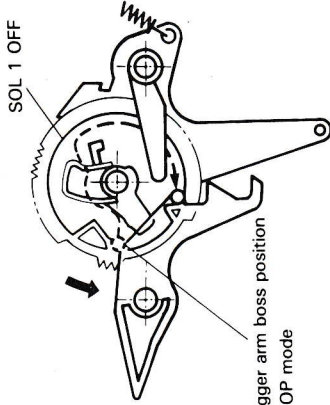
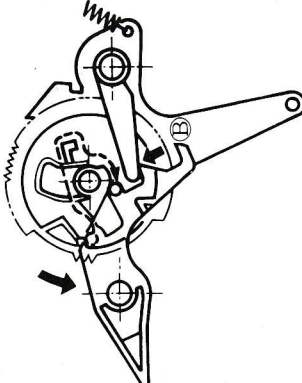
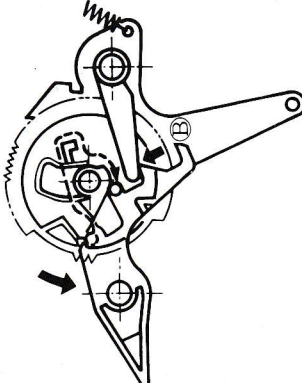
MECHANISM DESCRIPTION

Description of FD Trigger Gear, FD Trigger Arm and FR Trigger Arm Position During Operation (1)

Mode Description	FWD STOP Mode	FWD STOP -- FWD PLAY	Path from FWD STOP -- REV PLAY
Relationship of positions of cam surfaces and direction arm projection when the FD trigger is seen through the rear of the mechanism.		 <p>Direction arm boss (longer boss) position in STOP mode</p>	 <p>Direction arm projection changes from the outer to the inner REV direction cam surface when SOL 1 is drawn out.</p>
Relationship of positions of projections and FD trigger arm when the FD trigger is seen from the rear of the mechanism.	 <p>Stop position</p>	 <p>SOL 1 ON SOL 1 OFF</p> <p>FD trigger arm boss position in STOP mode</p> <p>Figure showing when SOL 1 is drawn out, the FD trigger arm projection moves from the stop position in the STOP mode, the rotation of the flywheel in the direction of the arrow is transmitted to the FD trigger gear, the FD trigger gear rotates approximately one full turn and is fixed at the other FD trigger gear projection position.</p>	 <p>The FD trigger arm projection path moves from the STOP to the PLAY position and is fixed here.</p>

MECHANISM DESCRIPTION

Description of FD Trigger Gear, FD Trigger Arm and FR Trigger Arm Position During Operation (2)

Description	Mode	RVS STOP Mode	RVS STOP -- RVS PLAY	RVS STOP -- RVS PLAY
<p>Relationship of positions of cam surfaces and direction arm projection when the FD trigger is seen through the rear of the mechanism.</p>	 <p>Unlike the FWD mode, the direction arm projection is positioned at the FD trigger gear inner cam surface.</p>	 <p>Direction arm boss (longer boss) position in STOP mode</p> <p>The direction arm projection is held along the FD trigger gear inner cam surface.</p>	 <p>Direction arm held in RVS position by FD trigger arm.</p>	 <p>When switching from the RVS STOP to the RVS PLAY mode, the hook inside the FD trigger arm pushes the direction arm in the direction of arrow B and holds it there. So the projection of the direction arm moves the path of the RVS operation.</p>
<p>Relationship of positions and projections of FD trigger arm when the FD trigger is seen from the rear of the mechanism.</p>	 <p>FD trigger arm projection fixed at the STOP position.</p>	 <p>SOL 1 OFF</p> <p>FD trigger arm boss position in STOP mode</p> <p>FD trigger arm fixed at the PLAY position. The broken line shows the FD trigger arm projection path.</p>	 <p>When switching from the RVS STOP to the RVS PLAY mode, the hook inside the FD trigger arm pushes the direction arm in the direction of arrow B and holds it there. So the projection of the direction arm moves the path of the RVS operation.</p>	 <p>When switching from the RVS STOP to the RVS PLAY mode, the hook inside the FD trigger arm pushes the direction arm in the direction of arrow B and holds it there. So the projection of the direction arm moves the path of the RVS operation.</p>

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				0dBs=0.775V	
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-114 10kHz, -10dB	(B)	PLAY	Azimuth adjustment screw	Maximum output.	
II PC BOARD (X28-1820-XX)							
<i>	TAPE SPEED (HI SPEED)	MTT-111 3kHz	(B)	Connect a jumper between GND and TP1(TP2). PLAY	(X28-1820-XX) DECK A: VR6 DECK B: VR4	Adjust the tape speed so that a 6kHz signal is produced at the center of the tape.	(a)
<ii>	TAPE SPEED (NORMAL)	MTT-111 3kHz	(B)	PLAY	(X28-1820-XX) DECK A: VR7 DECK B: VR5	Adjust the tape speed so that a 3kHz signal is produced at the center of the tape.	(b)
III PC BOARD (X28-1820-XX, X87-1100-04, X87-1140-01)							
<1>	PLAYBACK LEVEL	(a) MTT-150 400Hz	(B)	PLAY	(X87-1100-04) DECK A: VR1 (L) VR2 (R) DECK B: VR3 (L) VR4 (R)	Output level: -6.0dBs	(c)
		(b) MTT-256 315Hz				Output level: -9.0dBs	
		(c) MTT-256U 315Hz				Output level: -5.0dBs	
<2>	BIAS CURRENT	(A) 1kHz, -30dBs 10kHz, -30dBs	(B)	Adjust VR3 so that the REC monitor output becomes -29dBs at 1kHz, then record and reproduce signal of 1kHz and 10kHz in alternation.	(X28-1820-XX) VR1 (L) VR2 (R)	Record 1kHz and 10kHz in alternation and adjust the variable resistors which control the bias current so that the same playback level is obtained.	(d)
<3>	RECORD LEVEL	(A) 1kHz, -10dBs	(B)	Record and reproduce a 1kHz signal under the conditions set in <2>.	(X87-1140-01) VR2 (L) VR1 (R)	Adjust the variable resistors so that a playback level of -9dBs is obtained.	(e)

REGLAGES

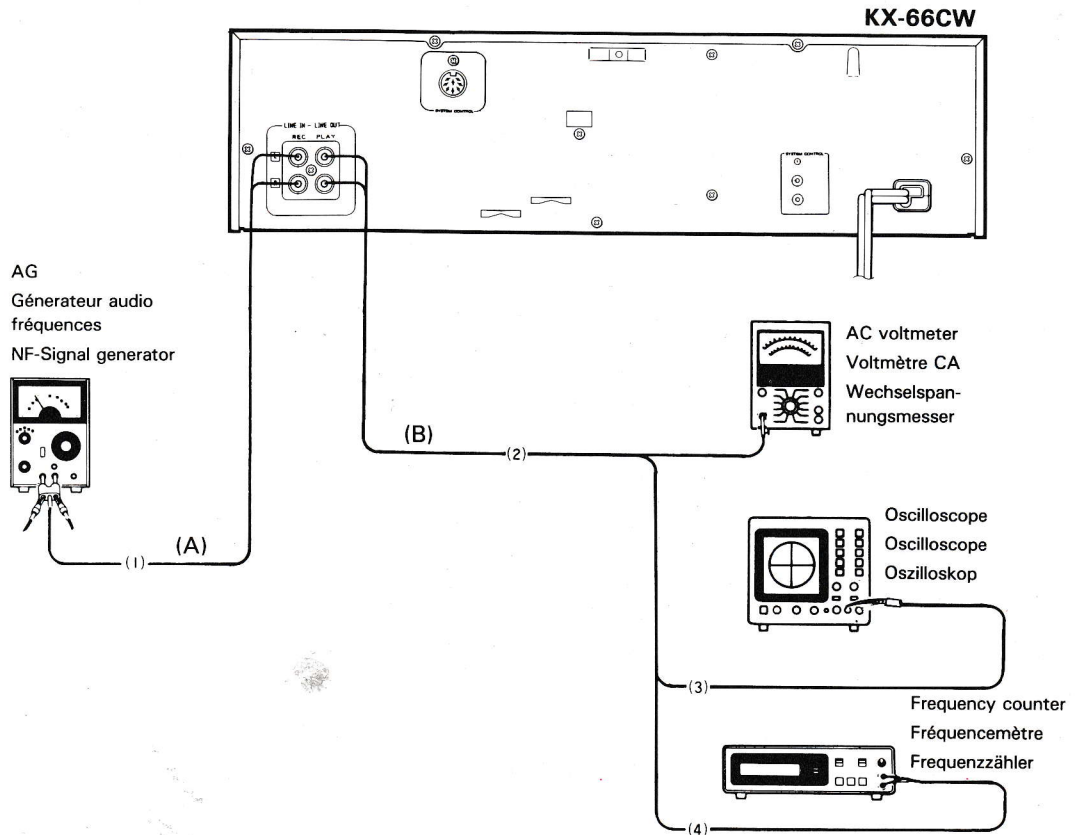
N°	ITEM	REGLAGE DE L'ENTREE	REGLAGE DE LA SORTIE	REGLAGE DU MAGNETO -PHONE A CASSETTE	POINTS DE L'ALIGNEMENT	ALIGNER POUR	FIG.
SECTION DU MAGNETOPHONE		TAPE: NORMAL, DOLBY: OFF, ENTREE: LINE				0dBs = 0,775V	
I TETE D'ENREGISTREMENT/LECTURE							
[1]	DEMAGNETISATION	-	-	POWER: OFF Eloigner la porte.	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, galetpresseur.	Nettoyer la tête D'ENREGISTREMENT/LECTURE la tête d'effacement, le cabestan et le galetpresseur avec un coton-tige légèrement imbibé d'alcool.	
[3]	AZIMUT	MTT-114 10kHz. -10dB	(B)	PLAY	Vis d'azimut	Sortie maximer.	
II PLAQUE IMPRIMEE (X28-1820-XX)							
< i >	VITESSE DE DEFILEMENT (HI SPEED)	MTT-111 3kHz	(B)	Connecter un cablage entre les GND et TP1(TP2). PLAY	(X28-1820-XX) DECK A: VR6 DECK B: VR4	Régler la vitesse de bande de façon qu'un signal de 6kHz soit produit au centre de la bande.	(a)
< ii >	VITESSE DE DEFILEMENT (NORMAL)	MTT-111 3kHz	(B)	PLAY	(X28-1820-XX) DECK A: VR7 DECK B: VR5	Régler la vitesse de bande de façon qu'un signal de 3kHz soit produit au centre de la bande.	(b)
III PLAQUE IMPRIMEE (X28-1820-XX, X87-1100-04, X87-1140-01)							
< 1 >	NIVEAU DE LECTURE	(a) MTT-150 400Hz (b) MTT-256 315Hz (c) MTT-256U 315Hz	(B)	PLAY	(X87-1100-04) DECK A: VR1 (G) VR2 (D) DECK B: VR3 (G) VR4 (D)	Niveau de sortie: -6,0dBs Niveau de sortie: -9,0dBs Niveau de sortie: -5,0dBs	(c)
< 2 >	COURANT DE POLARISATION	(A) 1kHz. -30dBs 10kHz. -30dBs	(B)	Régler VR3 de façon que la sortie de moniteur REC soit de -29dBs à 1kHz, puis en registrer et reproduire des signaux de 1kHz et 10kHz en alternance.	(X28-1820-XX) VR1 (G) VR2 (D)	Enregistrer un signal de 1kHz et 10kHz en alternance et ajuster les résistances variables qui commandent le courant de polarité de façon à obtenir le même niveau de lecture.	(d)
< 3 >	NIVEAU D'ENREGISTREMENT	(A) 1kHz. -10dBs	(B)	Enregistrer et reproduire un signal de 1kHz dans les conditions précisées en <2>.	(X87-1140-01) VR2 (G) VR1 (D)	Ajuster les résistances variables de façon à obtenir un niveau de lecture de -9dBs.	(e)

ABGLEICH

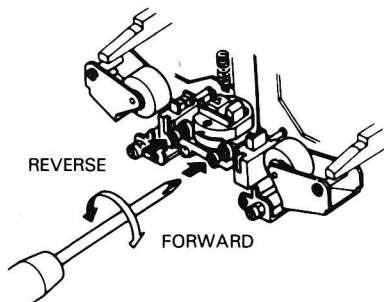
NR.	GEGENSTAND	EINGANGS-EINSTELLUNG	AUSGANGS-EINSTELLUNG	KASSETTENGÄRÄT-EINSTELLUNG	ABGLEICH PUNKTE	ABGLEICHEN FÜR	ABB.
CASSETTEN-DECK ABTEILUNG TAPE: NORMAL, DOLBY: OFF, EINGANG: LINE							0dBs = 0,775V
I AUFNAHME/WIEDERGABE KOPF							
[1]	ENTMAGNETISIERUNG	-	-	POWER: OFF Den Kassettenfach deckel 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 befeuch- teten Wattebausch reinigen.	
[3]	AZIMUT-EINSTELLUNG	MTT-114 10kHz, -10dB	(B)	PLAY	Azimit- Einstellschraube	Maximal Ausgang.	
II GEDRUCKTE SCHALTPLATTE (X28-1820-XX)							
< i >	BANDGESCHWINDIGKEIT (HI SPEED)	MTT-111 3kHz	(B)	Einen Schaltdraht zwischen GND und TP1(TP2) anschließen. PLAY	(X28-1820-XX) DECK A: VR6 DECK B: VR4	Die Bandgeschwindigkeit so justieren, daß ein 6kHz Signal auf der Mitte des Bands erzeugt wird.	(a)
< ii >	BANDGESCHWINDIGKEIT (NORMAL)	MTT-111 3kHz	(B)	PLAY	(X28-1820-XX) DECK A: VR7 DECK B: VR5	Die Bandgeschwindigkeit so justieren, daß ein 3kHz Signal auf der Mitte des Bands erzeugt wird.	(b)
III GEDRUCKTE SCHALTPLATTE (X28-1820-XX, X87-1100-04, X87-1140-01)							
< 1 >	WIEDERGABE-PEGEL	(a) MTT-150 400kHz (b) MTT-256 315kHz (c) MTT-256U 315kHz	(B)	PLAY	(X87-1100-04) DECK A: VR1 (L) VR2 (R) DECK B: VR3 (L) VR4 (R)	Ausgangspegel: -6,0dBs Ausgangspegel: -9,0dBs Ausgangspegel: -5,0dBs	(c)
< 2 >	LEERLAUFSTROM	(A) 1kHz, -30dBs 10kHz, -30dBs	(B)	VR3 so justieren, daß der REC Monitorausgang -29dBs bei 1kHz wird, und danach abwechselnd Signale von 1kHz und 10kHz aufnehmen und wiedergeben.	(X28-1820-XX) VR1 (L) VR2 (R)	Signale von 1kHz und 10kHz abwechselnd aufnehmen und die Regelwiderstände, die den Vormagnetisierungsstrom regeln, so justieren, daß der gleiche Wiedergabepegel erzielt wird.	(d)
< 3 >	AUFNAHMEPEGEL	(A) 1kHz, -10dBs	(B)	Ein 1kHz Signal unter den in Punkt <2> beschriebenen Bedingungen aufnehmen und reproduzieren.	(X87-1140-01) VR2 (L) VR1 (R)	Die Regelwiderstände so justieren, daß ein wiedergabepegel von -9dBs erzielt wird.	(e)

ADJUSTMENT/REGLAGES/ABGLEICH

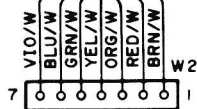
SYSTEM CONNECTIONS



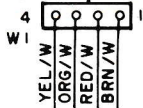
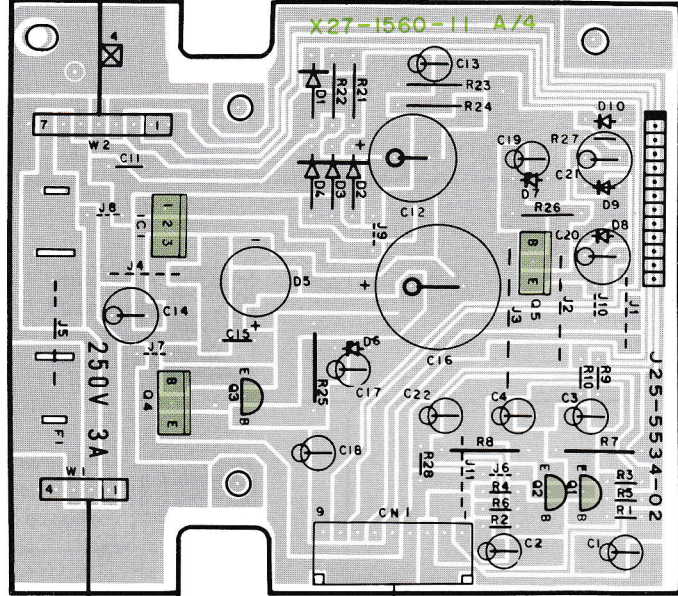
AZIMUTH ADJUSTMENT SCREW



AC 120V
60Hz



**POWER SUPPLY UNIT
(X27-1560-**)**



BLK

BLK

P.T.

X27 C/4

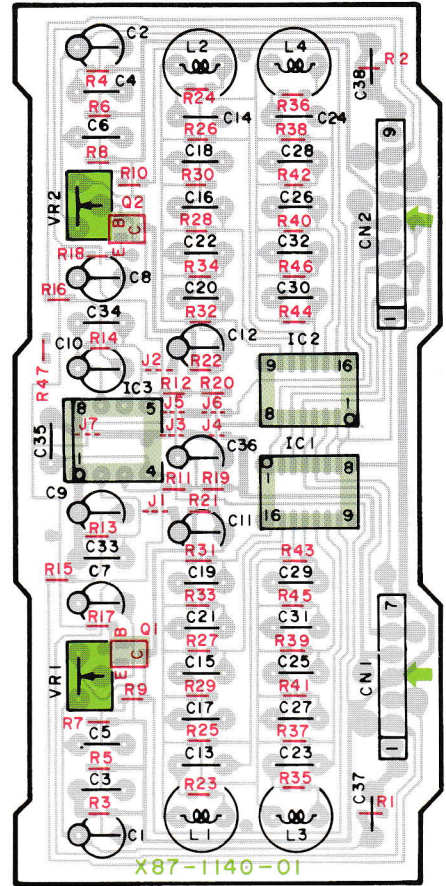
X27 B/4



POWER

SYSTEM CONTROL

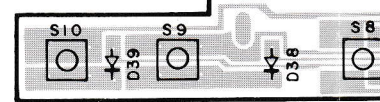
**RECORDING AMPLIFIER UNIT
(X87-1140-01)**



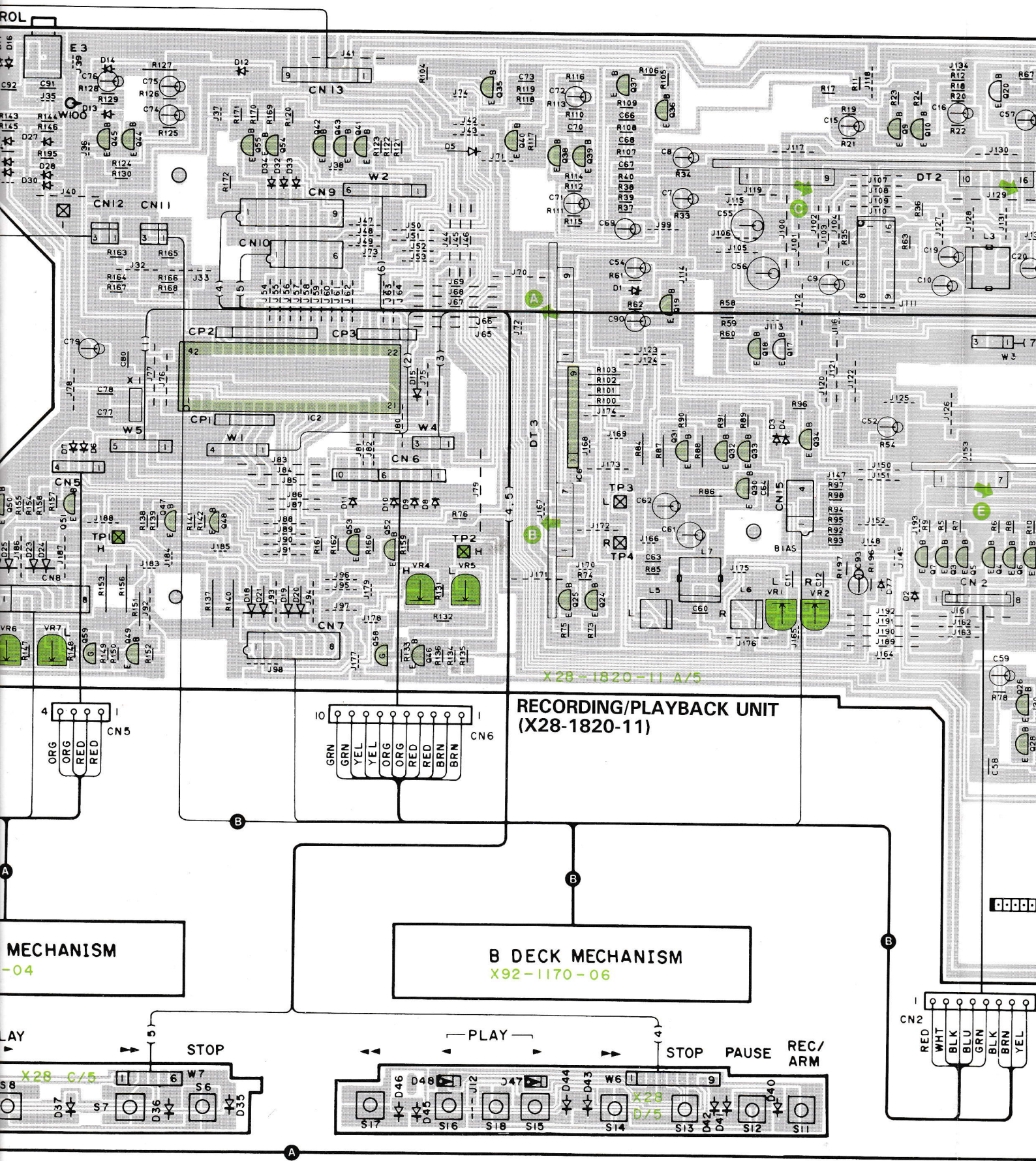
**A DECK M
X92-1170-0**

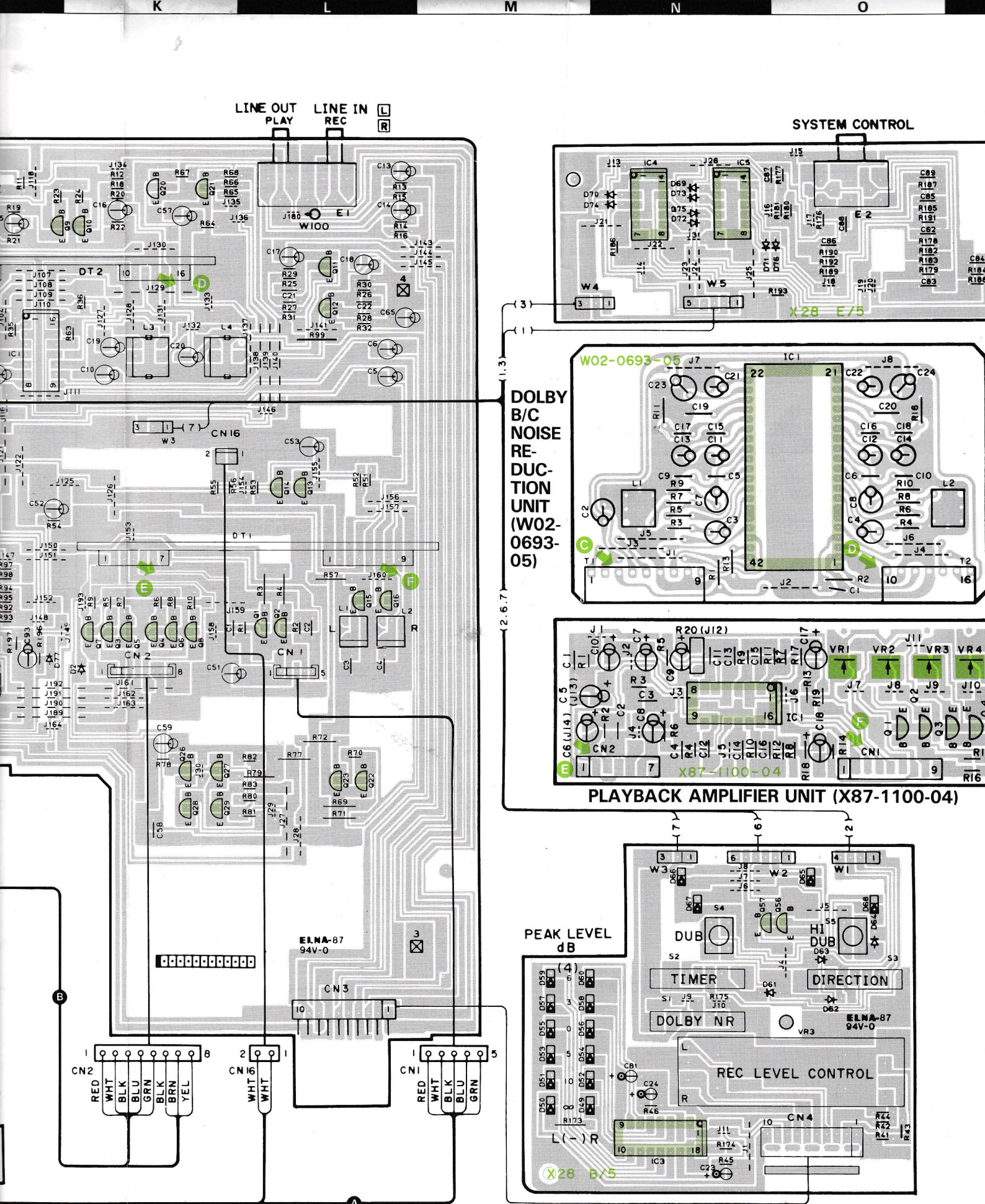
INDEX
SCAN

PLAY



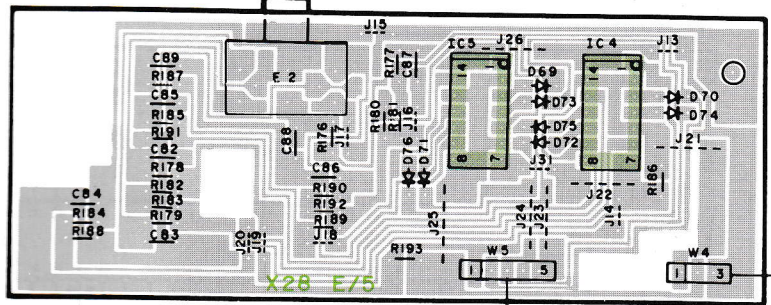
P.C. BOARD (Component side view)



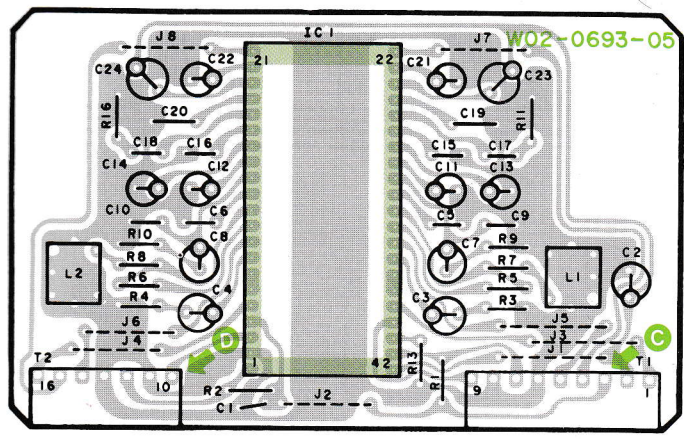


KX-66CW (K)
Refer to the schematic diagram for the values of resistors and capacitors.

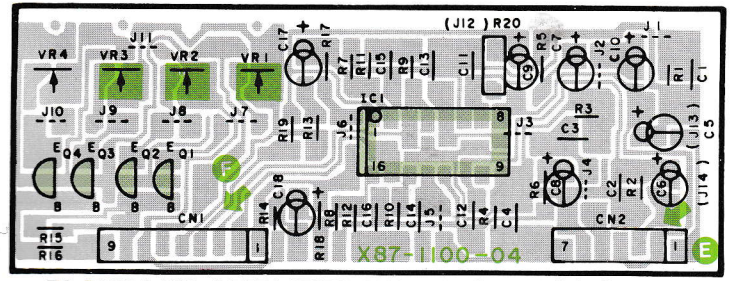
SYSTEM CONTROL



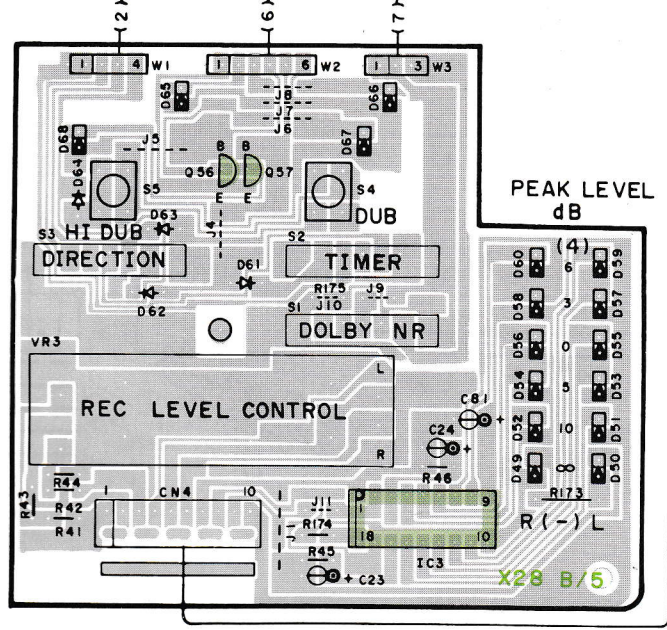
X28 E/5



DOLBY B/C NOISE REDUCTION UNIT (W02-0693-05)



PLAYBACK AMPLIFIER UNIT (X87-1100-04)

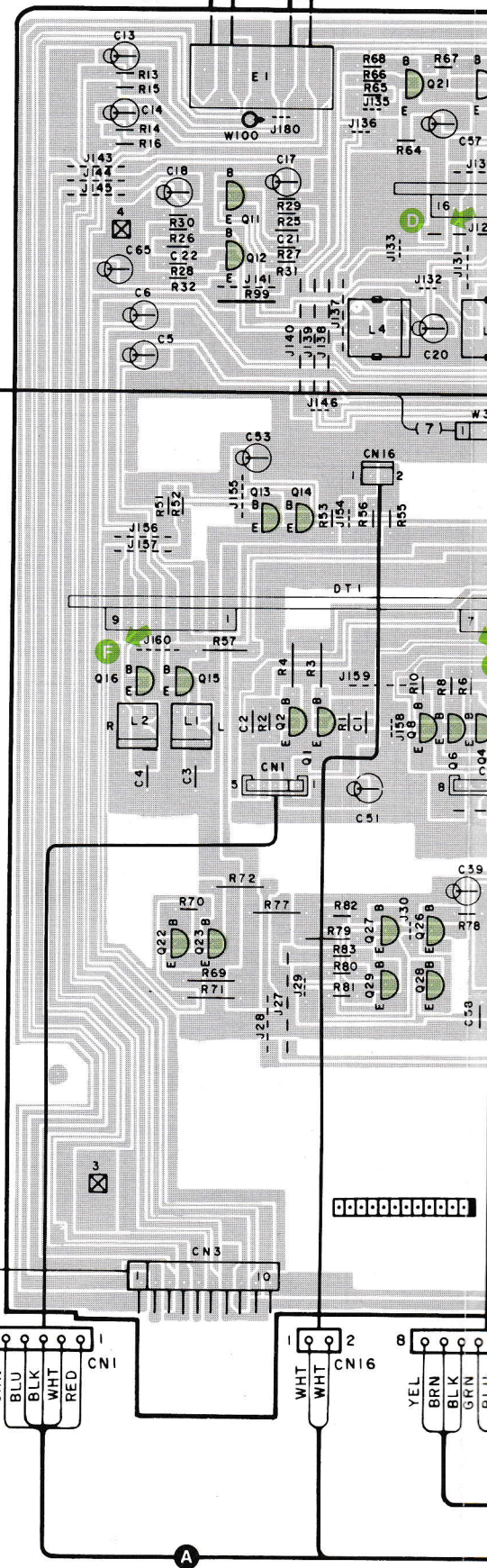


PEAK LEVEL DUB

REC LEVEL CONTROL

X28 B/5

LINE IN REC PLAY LINE OUT



1.3 2.6.7

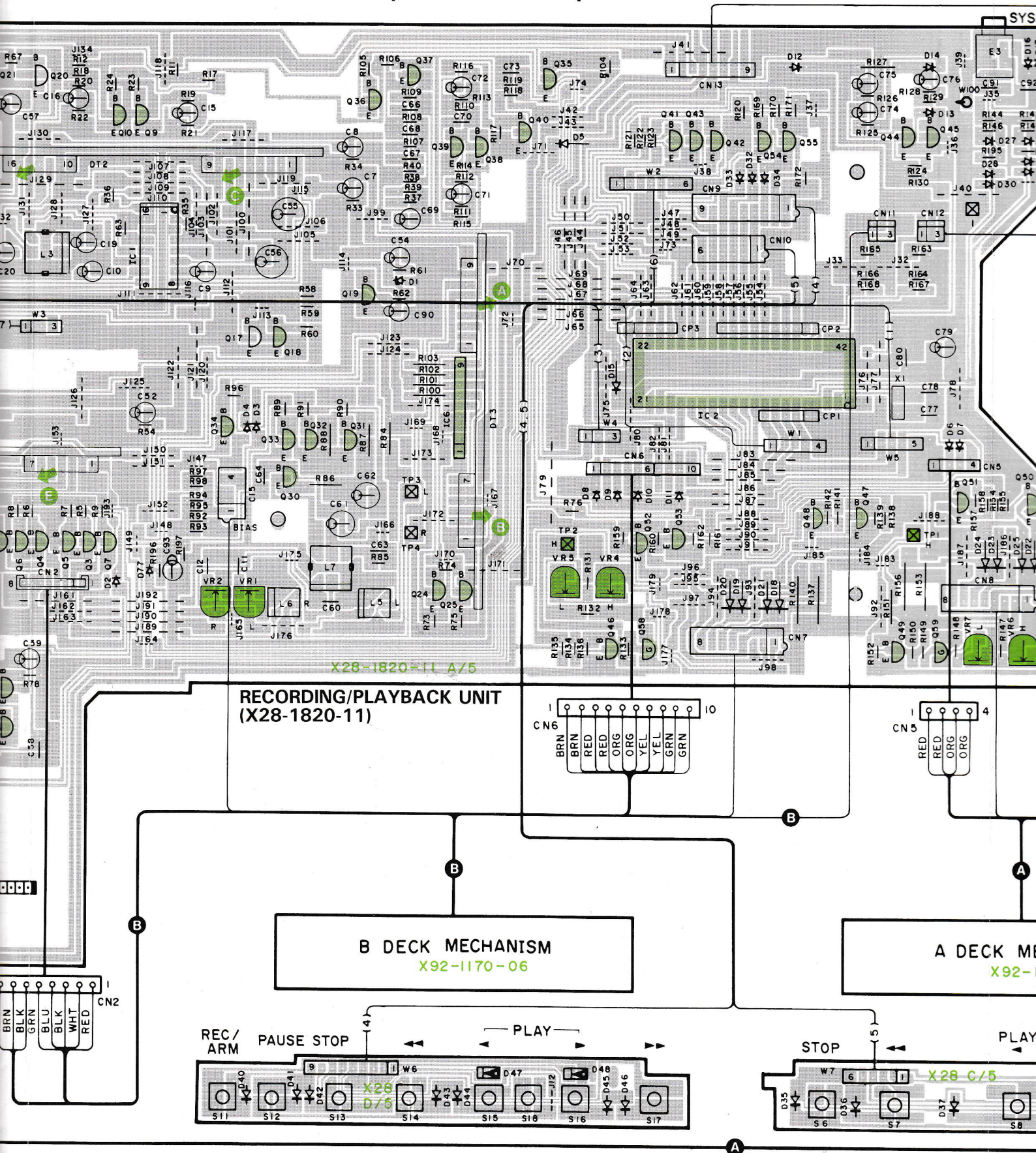
GRN BLU BLK WHT RED

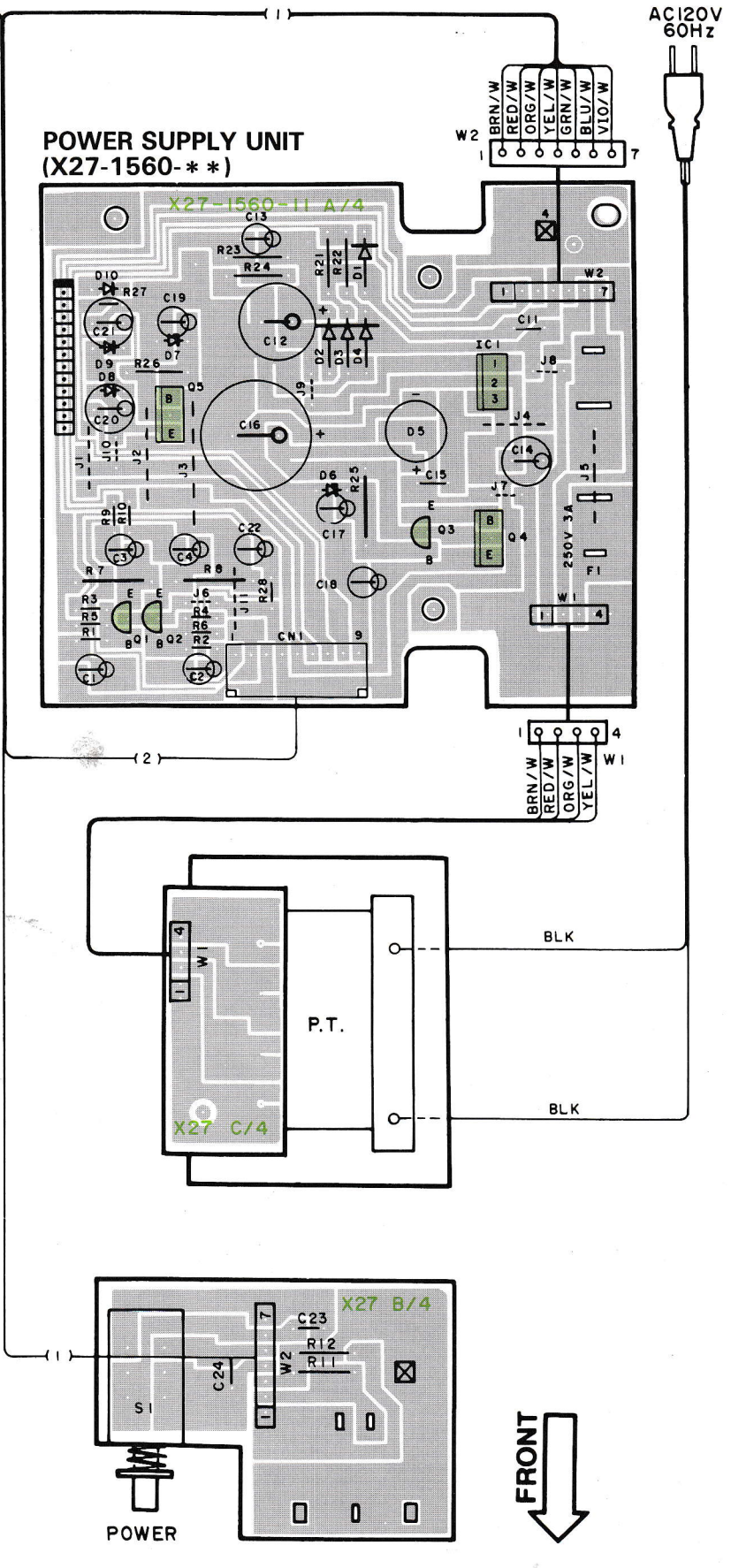
WHT WHT

YEL BRN BLK GRN BLU

1 2 3 4 5 6 7

P.C. BOARD (Foil side view)





KX-66CW (K)

Refer to the schematic diagram for the values of resistors and capacitors.

VOLTAGE TABLES

X28-1820-11

Q11,12

E	3.8V
C	6.7V
B	4.4V

Q19

E	—
C	18V
B	—

Q35,36

E	5V
C	—
B	—

Q38

E	0.6V
C	1.2V
B	—

Q39

E	0.6V
C	3.3V
B	1.2V

Q40

E	5.4V
C	0V
B	5.4V

Q52

E	16V
C	—
B	—

IC4,5

7	0V
14	6V

IC6

1	0V
2	0V
3	4.7V
4	4.7V
5	0V
6	0V
7	0V
8	8.2V
9	0V

IC2

4,5,40~42	0V
21	6V

IC3

1	0V	10	2.7V
2	—	11	11.3V
3	0V	12	12.8V
4	12.8V	13	11.3V
5	12.8V	14	12.8V
6	11.0V	15	12.8V
7	12.8V	16	—
8	11.0V	17	0V
9	14.4V	18	2.1V

X87-1140-01

Q1,2

E	0V
C	0V
B	0V

IC3

1	9V
2	9V
3	9V
4	0V
5	9V
6	9V
7	9V
8	18V

X27-1560-11, -22

Q1

E	11.85V
C	17.9V
B	12.45V

Q2

E	—
C	17.9V
B	—

Q3

E	—
C	19.5V
B	16.1V

Q4

E	14.76V
C	19.5V
B	16.1V

Q5

E	6.05V
C	14.76V
B	6.63V

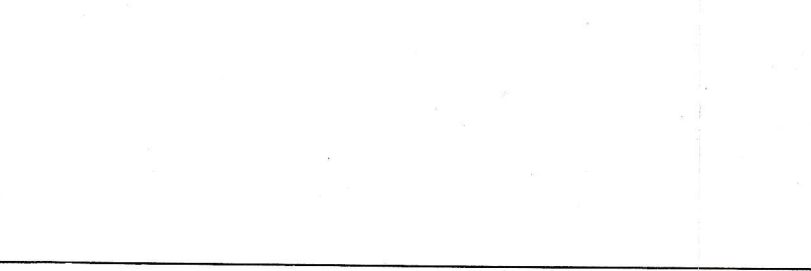
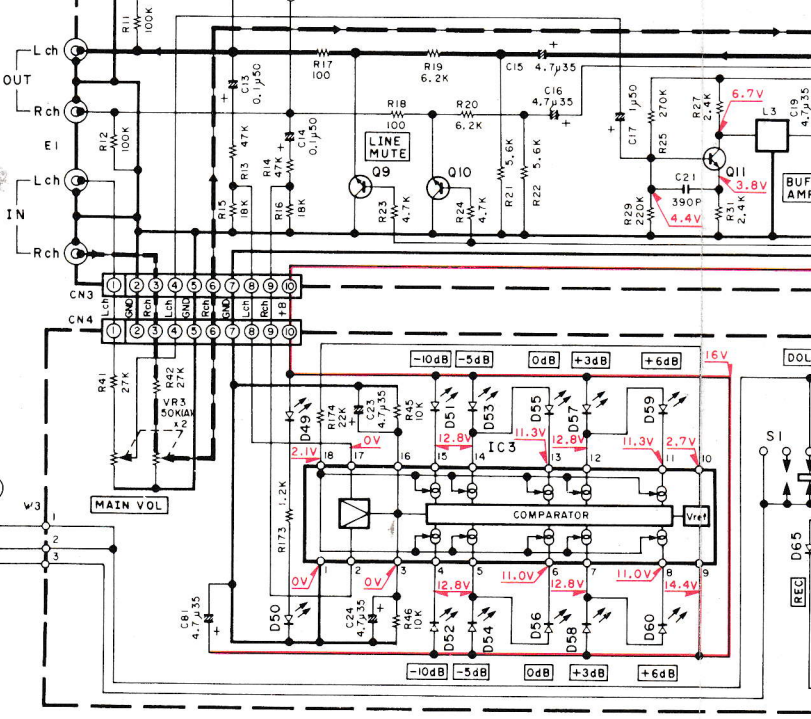
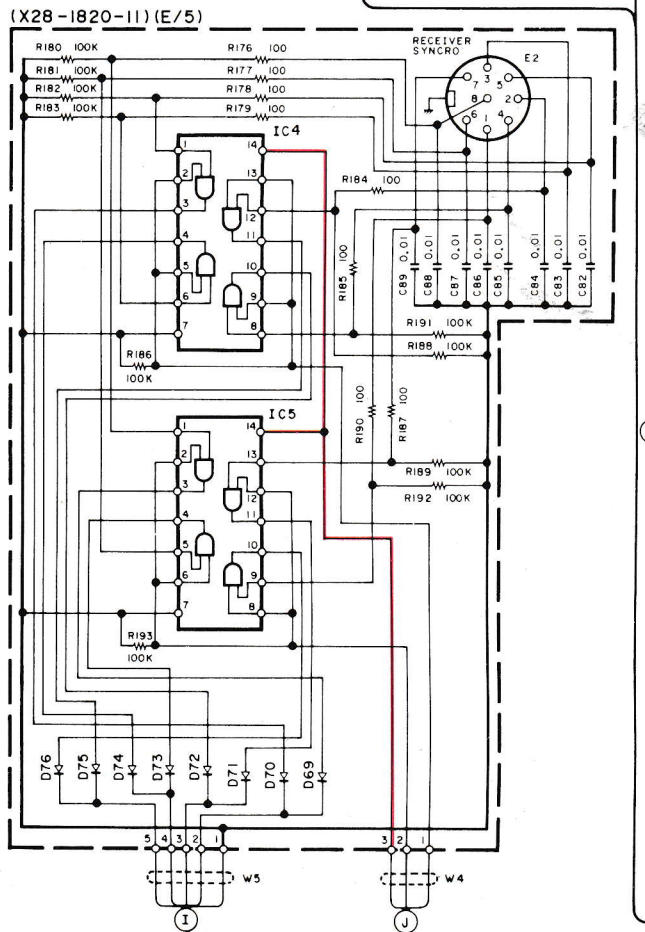
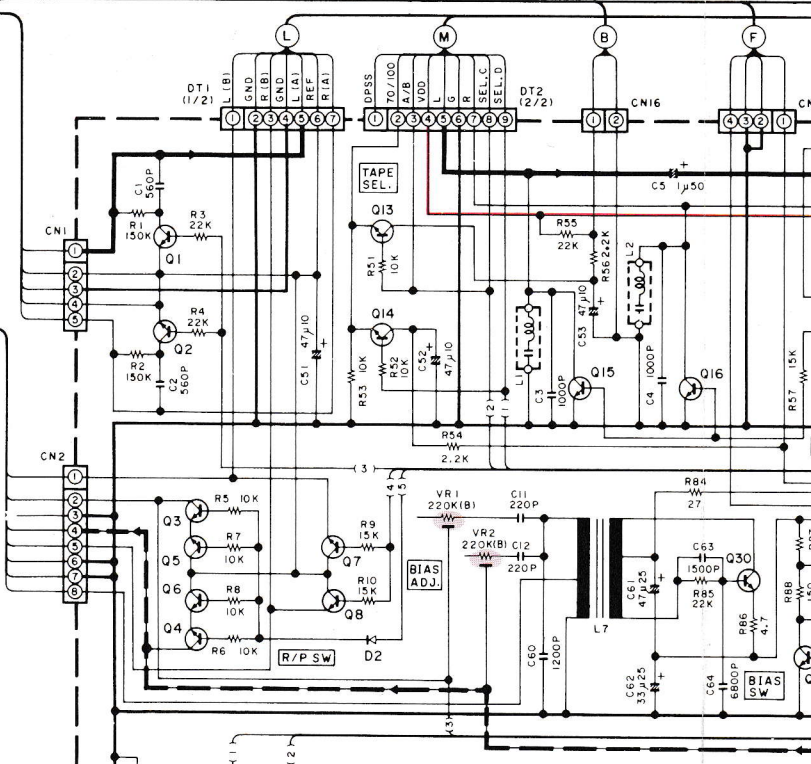
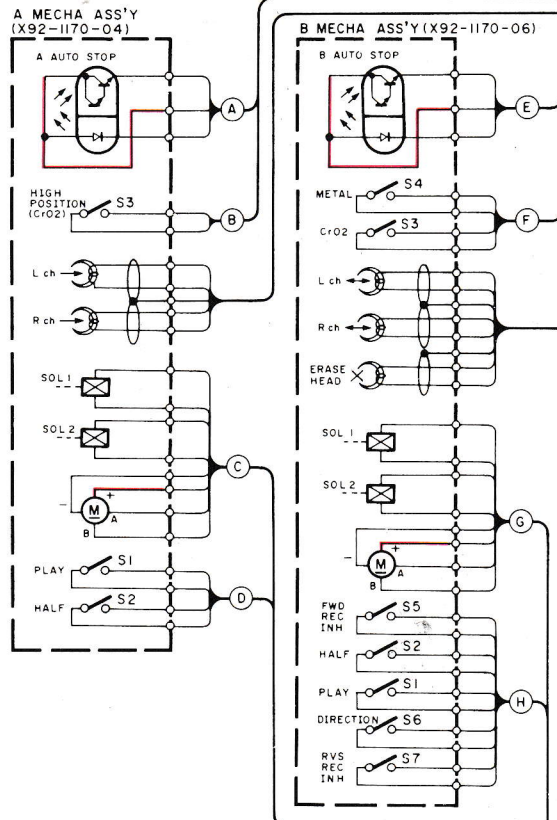
IC1

1	29.8V
2	0V
3	17.9V

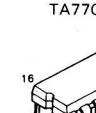
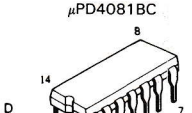
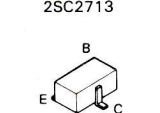
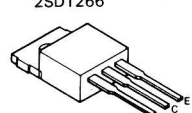
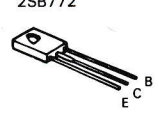
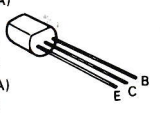
X87-1100-04

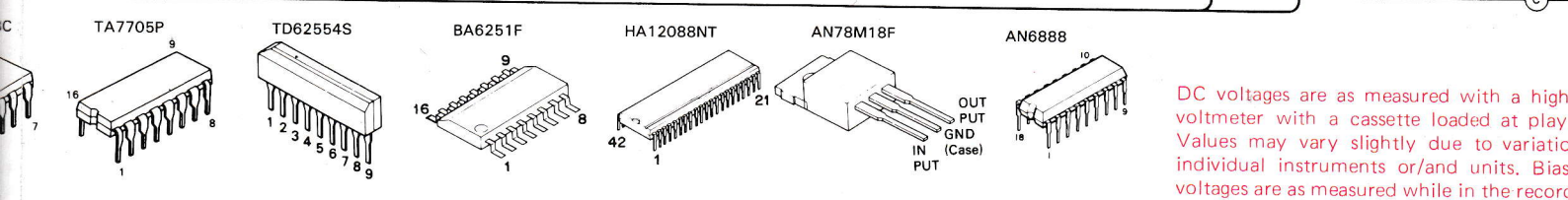
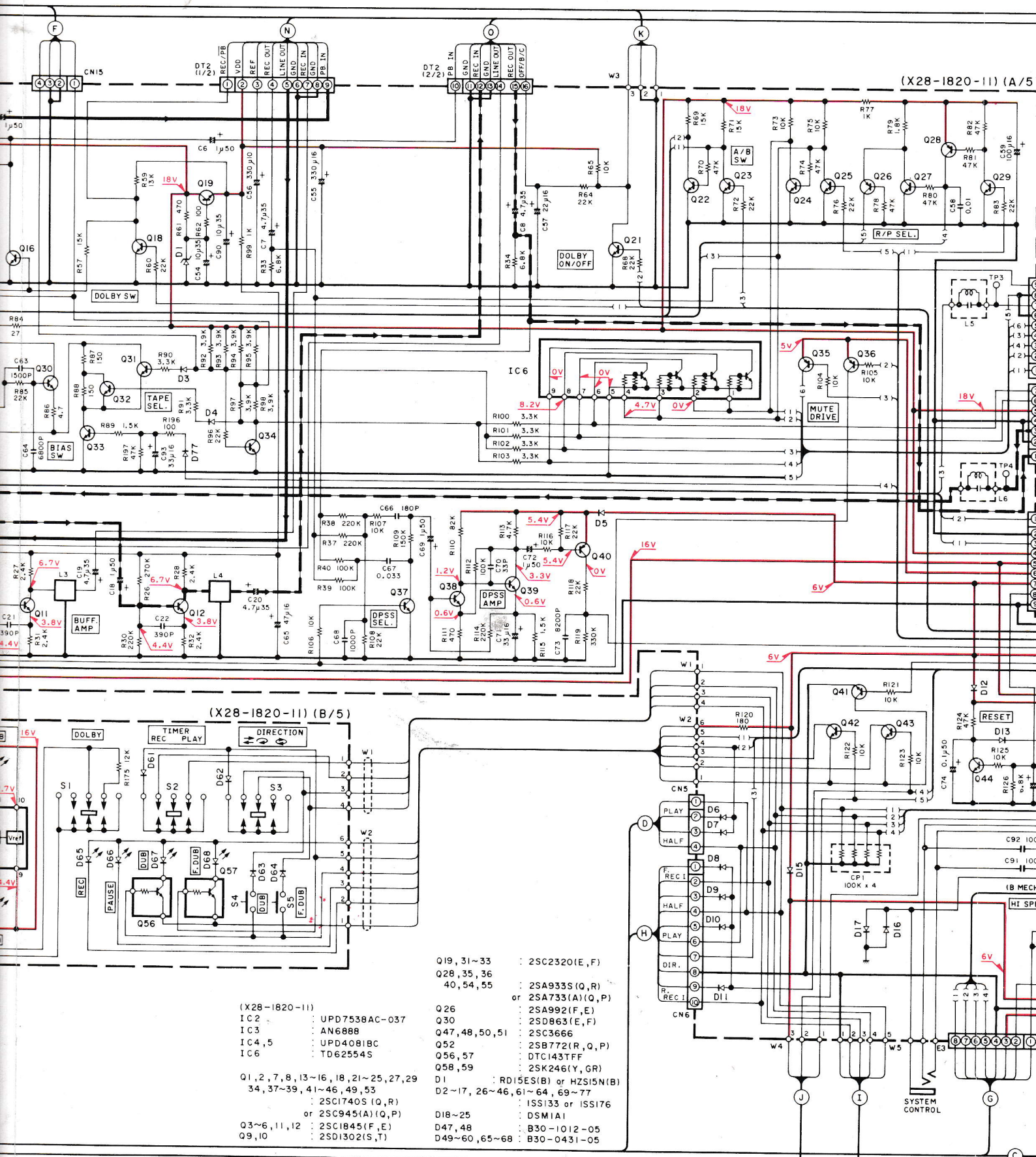
IC1

1	10.5V	9	2.9V
2	2.4V	10	—
3	0V	11	2.9V
4	2.4V	12	2.9V
5	2.9V	13	2.9V
6	2.9V	14	2.4V
7	2.8V	15	0.2V
8	0V	16	2.4V



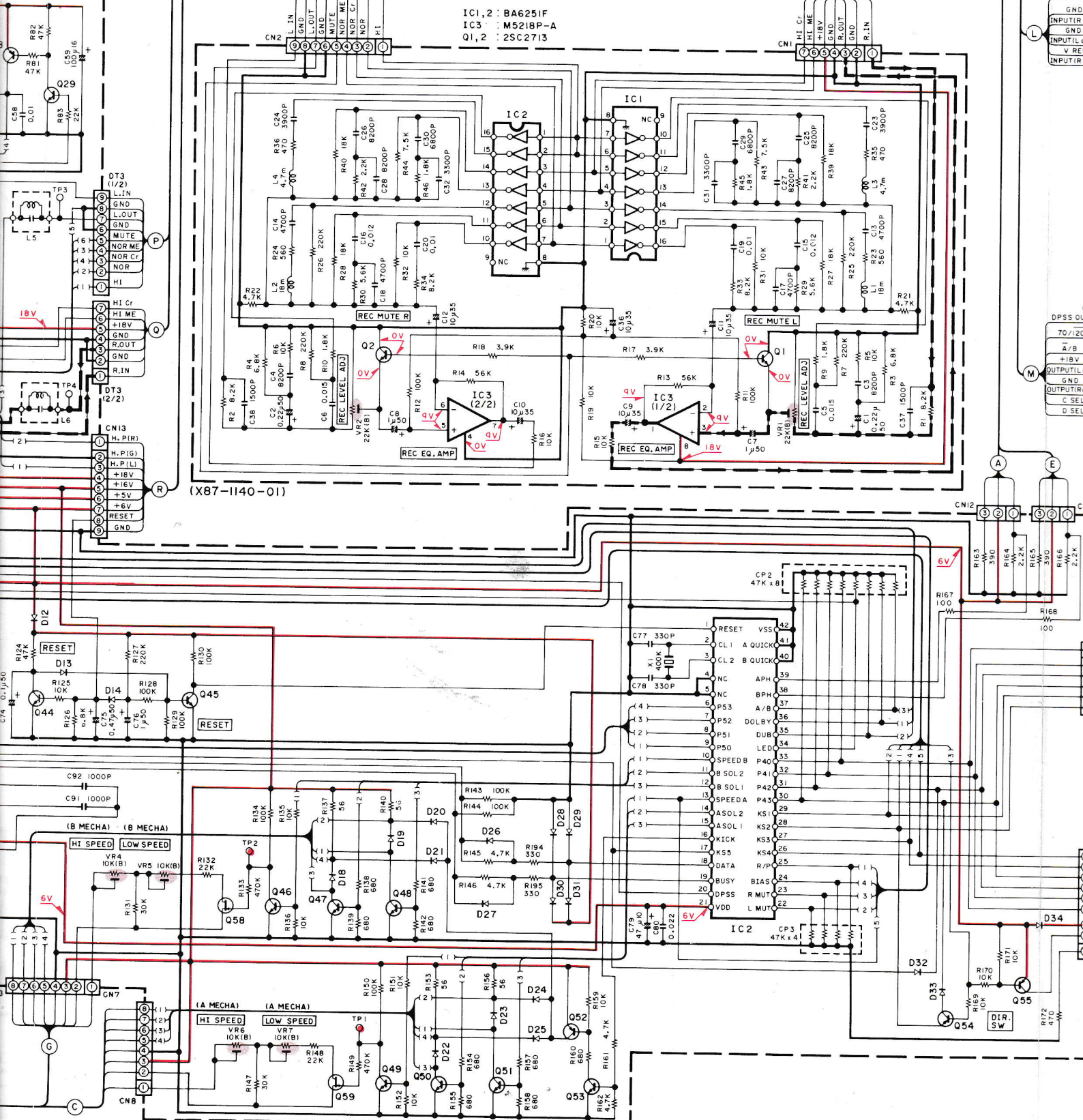
- 2SA733(A)
- 2SA992
- 2SC1845
- 2SC2320
- 2SC945(A)
- 2SD1302
- 2SD863
- 2SB772
- 2SD1266
- DTC143TFF
- 2SC3666
- 2SA933S
- 2SC1740S
- 2SC2713
- 2SK246
- μPD4081BC
- TA7700





DC voltages are as measured with a high impedance voltmeter with a cassette loaded at play. Values may vary slightly due to variations in individual instruments or/and units. Bias voltages are as measured while in the record mode.

1820-11) (A/5)



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 individuels. Les tensions c.c. du circuit de polarité doivent être mesurées, l'appareil étant en mode d'enregistrement.

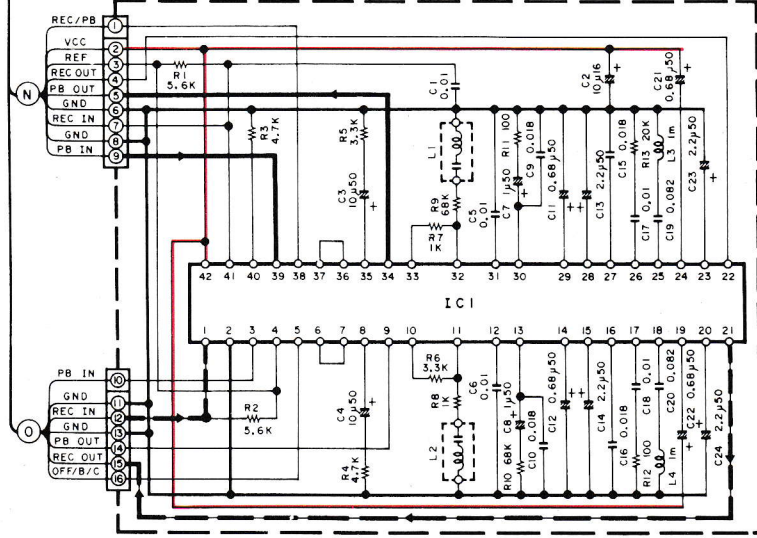
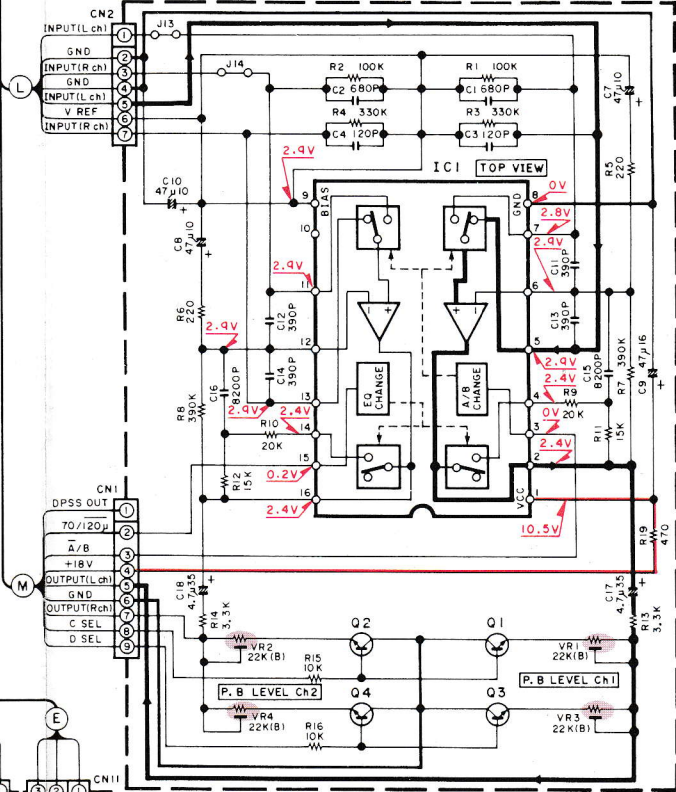
Die angegebenen Gleichspannungswerte wurden bei eingesetzter Cassette in der Wiedergabe mit einem hochohmigen Spannungsmesser gemessen. Dabei schwanken die Meßwerte aufgrund von Unterschieden zwischen einzelnen Instrumenten oder Geräten u.U. geringfügig. Die angegebenen Gleichspannungswerte der Vormagnetisierungsschaltung wurden in der Aufnahme-Betriebsart gemessen.

loaded with a high impedance
loaded at playback mode.
due to variations between
and units. Bias circuit DC
in the record mode.

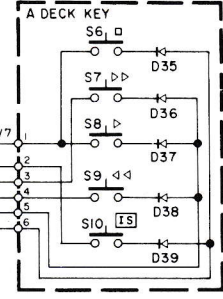
CAUTION: For c
ponents only with
to parts list).
reduce the risk of

PLAYBACK AMPLIFIER UNIT ICI : TA7705P
(X87-1100-04) Q1~4 : 2SC1740S(Q,R) or 2SC945(A)(Q,P)

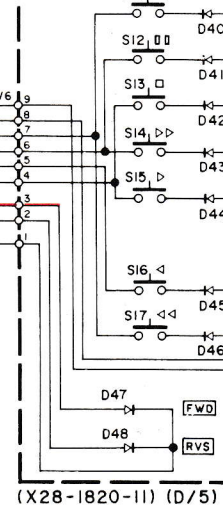
DOLBY B/C NOISE REDUCTION UNIT (W02-0693-05) ICI : HA12088NT



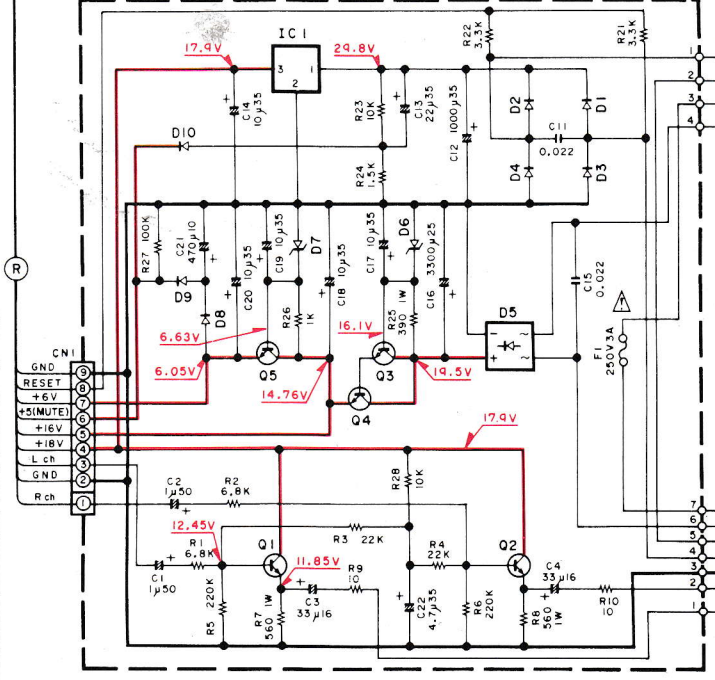
(X28-1820-11) (C/5)



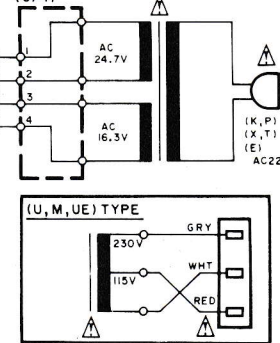
(X28-1820-11) (D/5)



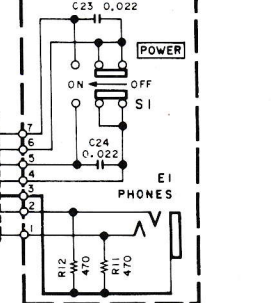
(X27-1560-11, -22)



(X27-1560-11, -22) (C/4)



(X27-1560-11, -22)



(X27-1560-11, -22)

ICI : AN78M18F
Q1~3 : 2SC1740S(Q,R)
Q4,5 : 2SD1266(Q,P)

- D1~4 : DSM1A1
- D5 : W02-5008L
- D6 : RD16ES(B2) or HZS16N(B2)
- D7 : RD6.8ES(B2) or HZS6.8N(B2)
- D8~10 : ISS133 or ISS176

- SIGNAL LINE
- RECORDING LINE
- GND LINE
- +B LINE

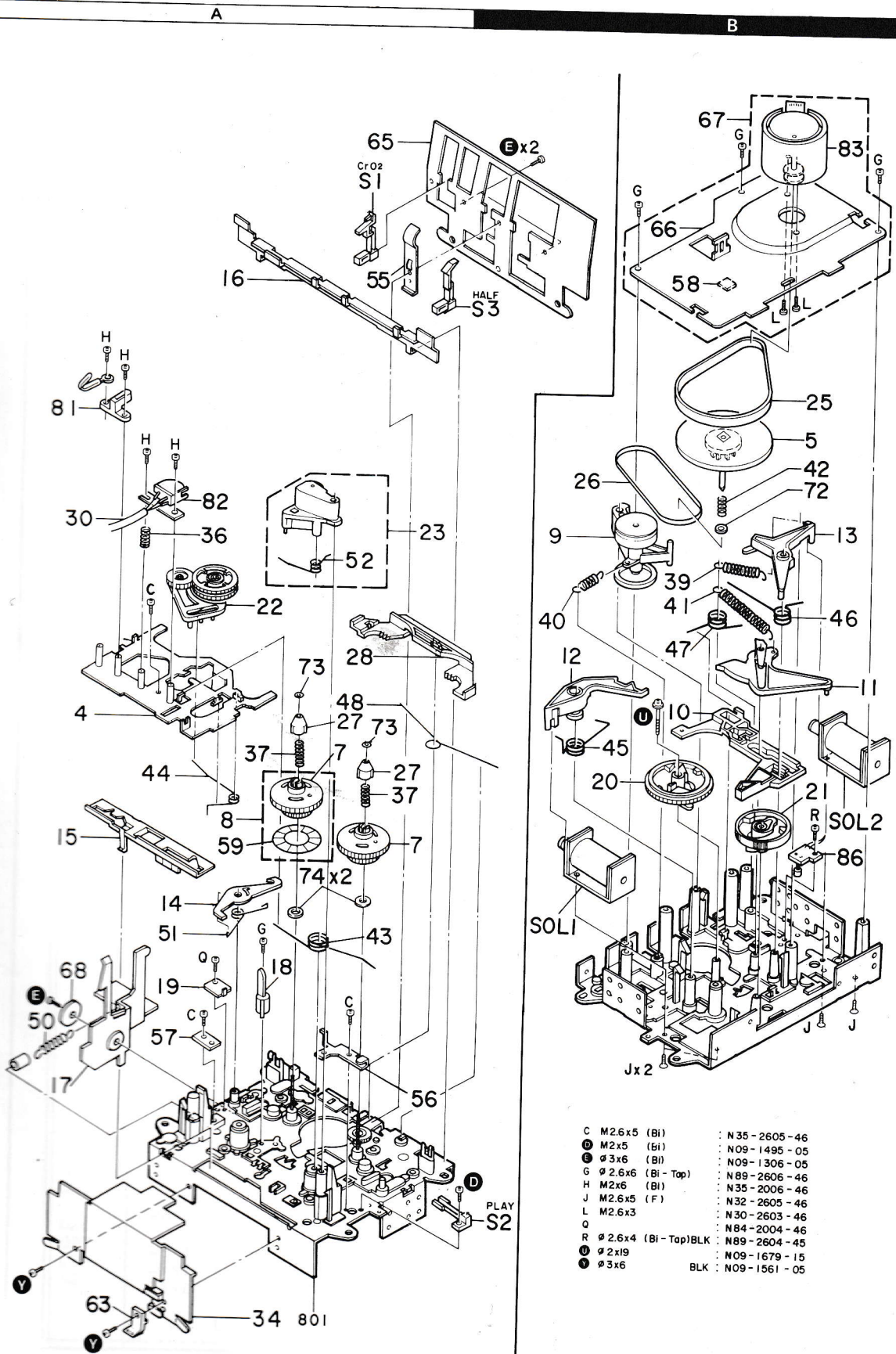
KX-66CW(K)

CAUTION: For continued safety, replace safety critical components only with manufacturer's recommended parts (refer to parts list). 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.

KX-66CW
KENWOOD

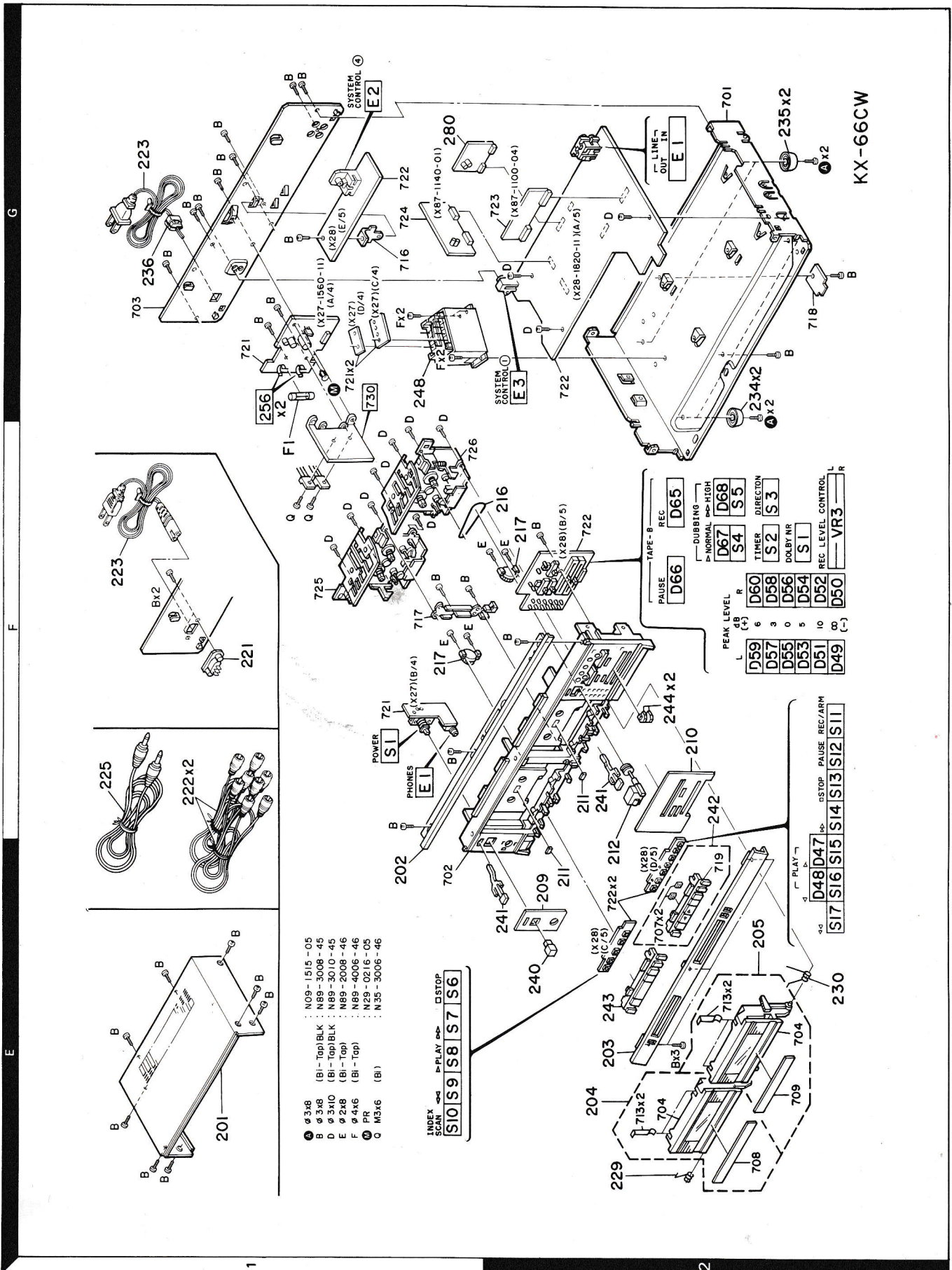
EXPLODED VIEW (MECHANISM A)



KX-66CW(A-MECHA)

Parts with the exploded numbers larger than 700 are not supplied.

EXPLODED VIEW (UNIT)



KX-66CW

- Ø 3x6
- Ø 3x8 (BI-Top)BLK
- Ø 3x10 (BI-Top)BLK
- Ø 2x8 (BI-Top)
- Ø 4x6 (BI-Top)
- PR
- M3x6 (BI)
- N09-1515-05
- N89-3008-45
- N89-3010-45
- N89-2008-46
- N89-4006-46
- N29-0216-05
- N35-3006-46

INDEX	STOP	PLAY	STOP
S10	S9	S8	S7
S6			

PAUSE	TAPE - B	REC	D65
			D66
			D67
			D68
			S4
			S5
			S2
			S3
			S1
			VR3

PEAK LEVEL	dB
L	6
	3
	0
	5
	10
	15
	20
	25
	30
	35
	40
	45
	50
	55
	60
	65
	70
	75
	80
	85
	90
	95
	100

PLAY	STOP	PAUSE	REC/ARM
S17	S16	S15	S14
S13	S12	S11	

Parts with the exploded numbers larger than 700 are not supplied.

KX-66CW

※ New Parts

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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-66CW						
201	1E		A01-1557-01	METALLIC CABINET		
202	1E	*	A21-0985-02	DRESSING PANEL		
203	2E	*	A21-0988-02	DRESSING PANEL		
204	2E	*	A53-0899-03	CASSETTE HOLDER ASSY(A)	KPUMUE	
204	2E	*	A53-0899-03	CASSETTE HOLDER ASSY(A)	X	
204	2E	*	A53-0934-03	CASSETTE HOLDER ASSY(A)	TE	
205	2E		A53-0898-03	CASSETTE HOLDER ASSY(B)	KPUMUE	
205	2E		A53-0898-03	CASSETTE HOLDER ASSY(B)	X	
205	2E		A53-0933-03	CASSETTE HOLDER ASSY(B)	TE	
209	2E	*	B03-2205-04	DRESSING PLATE (POWER)		
210	2F	*	B03-2207-03	DRESSING PLATE (FRONT)		
211	2E, 2F		B07-1720-04	ESCUTCHEON		
212	2E		B35-0035-05	TAPE COUNTER		
-			B46-0092-03	WARRANTY CARD	K	
-			B46-0094-03	WARRANTY CARD	UUE	
-			B46-0095-03	WARRANTY CARD	UUE	
-			B46-0096-13	WARRANTY CARD	X	
-			B46-0121-03	WARRANTY CARD	P	
-			B46-0122-13	WARRANTY CARD	E	
-			B46-0143-03	WARRANTY CARD	T	
-		*	B50-6841-00	INSTRUCTION MANUAL (ENGLISH)		
-		*	B50-6842-00	INSTRUCTION MANUAL (FRENCH)	PMXE	
-		*	B50-6843-00	INSTRUCTION MANUAL (SPANISH)	M	
-		*	B50-6844-00	INSTRUCTION MANUAL (ARABIC)	M	
-		*	B50-6846-00	INSTRUCTION MANUAL (G, D, I)	E	
-			B58-0223-04	CAUTION CARD (PRE-SET 120V)	U	
-			B58-0269-04	CAUTION CARD	K	
-			B58-0513-04	CAUTION CARD (PRESET220-240)	UUE	
-			B59-0092-00	SERVICE DIRECTORY	UUE	
216	2F	*	D16-0163-04	BELT		
217	1F, 2F		D39-0183-05	DAMPER		
△ 221	1F		E03-0102-25	AC INLET	UMUE	
△ 222	1F		E30-0505-05	AUDIO CORD		
△ 223	1G		E30-0459-05	AC POWER CORD	E	
△ 223	1G		E30-0780-05	AC POWER CORD	KP	
△ 223	1F		E30-1305-15	AC POWER CORD (INLET)	UMUE	
△ 223	1G		E30-1341-05	AC POWER CORD	X	
△ 223	1G		E30-1416-05	AC POWER CORD	T	
225	1F		E30-1392-05	CORD WITH PLUG	KPUMUE	
225	1F		E30-1392-05	CORD WITH PLUG	X	
△ F1	1F		F06-3023-05	FUSE (UL) (250V 3A)	K	
229	2E	*	G01-2053-04	EXTENSION SPRING(L)		
230	2E	*	G01-2054-04	EXTENSION SPRING(R)		
-		*	H01-7576-04	ITEM CARTON CASE		
-			H10-3441-02	POLYSTYRENE FOAMED FIXTURE(L)		
-			H10-3442-02	POLYSTYRENE FOAMED FIXTURE(R)		
-			H11-0004-04	POLYSTYRENE FOAMED BOARD		
-			H20-0417-04	PROTECTION COVER(460X370X360)	M	
-			H25-0223-04	PROTECTION BAG (750X350X0.03)	KPUUEX	
-			H25-0223-04	PROTECTION BAG (750X350X0.03)	TE	
-			H25-0232-04	PROTECTION BAG (235X350X0.03)		

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234	2G		J02-0161-04	FOOT (FRONT)	KPXTE	
235	2G		J02-0170-04	FOOT (REAR)		
236	1G		J42-0083-05	POWER CORD BUSHING		
			J61-0307-05	WIRE BAND		
240	2E		K29-2001-04	KNØB ASSY (BUTTON) POWER		
241	2E, 2F		K29-2539-04	KNØB (BUTTON) EJECT		
242	2E		K29-2628-04	KNØB ASSY (B)		
243	2E		K29-2632-03	KNØB (A)		
244	2F		K29-2634-03	KNØB (SLIDE) REC LEVEL CONTROL		
△ 248	1G	*	L01-7931-05	POWER TRANSFORMER	KP XTE UMUE	
△ 248	1G	*	L01-7932-05	POWER TRANSFORMER		
△ 248	1G	*	L01-7934-05	POWER TRANSFORMER		
A	2G		N09-1515-05	TAPPING SCREW (Ø3X8) FOOT		
M	1G		N29-0216-05	RIVET		
POWER SUPPLY UNIT (X27-1560-XX) (K: -11/P,U,M,UE,X,T,E: -22)						
C1 ,2			CE04KW1H010M	ELECTRO 1.0UF 50WV		
C3 ,4			CE04KW1C330M	ELECTRO 33UF 16WV		
C11			CK45FF1H223Z	CERAMIC 0.022UF Z		
C12			CE04KW1V102M	ELECTRO 1000UF 35WV		
C13			CE04KW1V220M	ELECTRO 22UF 35WV		
C14			CE04KW1V100M	ELECTRO 10UF 35WV		
C15			CK45FF1H223Z	CERAMIC 0.022UF Z		
C16			CE04KW1E332M	ELECTRO 3300UF 25WV		
C17 -20			CE04KW1V100M	ELECTRO 10UF 35WV		
C21			CE04KW1A471M	ELECTRO 470UF 10WV		
C22			CE04KW1V4R7M	ELECTRO 4.7UF 35WV		
C23 ,24			CK45FF1H223Z	CERAMIC 0.022UF Z		
E1	1F		E11-0162-05	PHONE JACK (3P) PHONES		
256	1G		J13-0041-05	FUSE CLIP	K	
R7 ,8			RS14KB3A561J	FL-PROOF RS 560 J 1W		
R25			RS14KB3A391J	FL-PROOF RS 390 J 1W		
S1	1F	*	S40-2358-05	PUSH SWITCH (POWER TYPE)		
D1 -4			DSM1A1	DIODE		
D5			W02-5008L	DIODE		
D6			HZS16N(B2)	ZENER DIODE		
D6			RD16ES(B2)	ZENER DIODE		
D7			HZS6.8N(B2)	ZENER DIODE		
D7			RD6.8ES(B2)	ZENER DIODE		
D8 -10			1SS133	DIODE		
D8 -10			1SS176	DIODE		
IC1		*	AN78M18F	IC (VOLTAGE REGULATOR / +18V)		
Q1 -3			2SC1740S(Q,R)	TRANSISTOR		
Q4 ,5			2SD1266(Q,P)	TRANSISTOR		
RECORDING/PLAYBACK UNIT (X28-1820-11)						
D47 ,48	2E		B30-1012-05	LED (SLP-981C-50) FWD, RVS		
D49 -60	2E		B30-0431-05	LED (LN21CPH) PEAK LEVEL		
D65 -68	2E		B30-0431-05	LED (LN21CPH) TAPE DUBBING		
C1 ,2			CK45FB1H561K	CERAMIC 560PF K		
C3 ,4			CK45FB1H102K	CERAMIC 1000PF K		
C5 ,6			CE04KW1H010M	ELECTRO 1.0UF 50WV		

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C7 .8			CE04KW1V4R7M	ELECTR0 4.7UF 35WV		
C11 .12			CC45FSL1H221J	CERAMIC 220PF J		
C13 .14			CE04KW1HOR1M	ELECTR0 0.1UF 50WV		
C15 .16			CE04KW1V4R7M	ELECTR0 4.7UF 35WV		
C17 .18			CE04KW1H010M	ELECTR0 1.0UF 50WV		
C19 .20			CE04KW1V4R7M	ELECTR0 4.7UF 35WV		
C21 .22			CK45FB1H391K	CERAMIC 390PF K		
C23 .24			CE04JW1V4R7M	ELECTR0 4.7UF 35WV		
C51 -53			CE04KW1A470M	ELECTR0 47UF 10WV		
C54			CE04KW1V100M	ELECTR0 10UF 35WV		
C55			CE04KW1C331M	ELECTR0 330UF 16WV		
C56			CE04KW1A331M	ELECTR0 330UF 10WV		
C57			CE04KW1C220M	ELECTR0 22UF 16WV		
C58			CK45FF1H103Z	CERAMIC 0.010UF Z		
C59			CE04KW1C101M	ELECTR0 100UF 16WV		
C60			C91-0774-05	POLYPR0 1200PF J		
C61			CE04KW1E470M	ELECTR0 47UF 25WV		
C62			CE04KW1E330M	ELECTR0 33UF 25WV		
C63			CF92FV1H152J	MF 1500PF J		
C64			CF92FV1H682J	MF 6800PF J		
C65			CE04KW1C470M	ELECTR0 47UF 16WV		
C66			CC45FSL1H181J	CERAMIC 180PF J		
C67			CF92FV1H333J	MF 0.033UF J		
C68			CK45FB1H102K	CERAMIC 1000PF K		
C69			CE04KW1H010M	ELECTR0 1.0UF 50WV		
C70			CC45FSL1H330J	CERAMIC 33PF J		
C71			CE04KW1C330M	ELECTR0 33UF 16WV		
C72			CE04KW1H010M	ELECTR0 1.0UF 50WV		
C73			CF92FV1H822J	MF 8200PF J		
C74			CE04KW1HOR1M	ELECTR0 0.1UF 50WV		
C75			CE04KW1HR47M	ELECTR0 0.47UF 50WV		
C76			CE04KW1H010M	ELECTR0 1.0UF 50WV		
C77 .78			CC45FSL1H331J	CERAMIC 330PF J		
C79			CE04KW1A470M	ELECTR0 47UF 10WV		
C80			CK45FF1H223Z	CERAMIC 0.022UF Z		
C81			CE04JW1V4R7M	ELECTR0 4.7UF 35WV		
C82 -89			CK45FF1H103Z	CERAMIC 0.010UF Z		
C90			CE04KW1V100M	ELECTR0 10UF 35WV		
C91 .92			CK45FB1H102K	CERAMIC 1000PF K		
C93			CE04KW1C330M	ELECTR0 33UF 16WV		
E1	2G		E13-0446-05	PHONE JACK(4P) LINE		
E2	1G		E06-0806-05	CYLINDRICAL RECEPTACLE		
E3	2G		E11-0165-05	MINIATURE PHONE JACK(SYS CONT)		
L1 .2			L39-0126-05	TRAP COIL		
L3 .4			L79-0720-05	LC FILTER		
L5 .6			L39-0145-05	LW OSCILLATING COIL		
L7			L32-0341-05	OSCILLATING COIL		
X1			L78-0202-05	RESONATOR (400KHZ)		
CP1			R90-0291-05	MULTI-COMP 100KX4 J 1/6W		
CP2			R90-0462-05	MULTIPLE RESISTOR		
CP3			R90-0202-05	MULTI-COMP 47KX4 J 1/6W		
R84			RD14GB2E270J	FL-PROOF RD 27 J 1/4W		
R86			RD14GB2E4R7J	FL-PROOF RD 4.7 J 1/4W		
R137			RS14KB3D560J	FL-PROOF RS 56 J 2W		

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R140 R153 R156 VR1 ,2 VR3 VR4 -7	2F		RS14KB3D560J RS14KB3D560J RS14KB3D560J R12-5047-05 R13-4040-05 R12-3134-05	FL-PROOF RS 56 J 2W FL-PROOF RS 56 J 2W FL-PROOF RS 56 J 2W TRIMMING PNT. (220K) REC LEVEL POTENTIOMETER (50KAX2) REC LEVEL TRIMMING PNT. (10KB) SPEED		
S1 -3 S4 -17	2F 1E,2F		S31-1017-05 S40-1064-05	SLIDE SWITCH (DOLBY NR, TIMER) PUSH SWITCH (OPERATION KEY)		
D1 D1 D1 ,2 D2 -17 D2 -17			HZS15N(B) RD15ES(B) 2SC945(A) (Q,P) 1SS133 1SS176	ZENER DIODE ZENER DIODE TRANSISTOR DIODE DIODE		
D7 ,8 D13 -16 D18 D18 -25 D21 -25			2SC945(A) (Q,P) 2SC945(A) (Q,P) 2SC945(A) (Q,P) DSM1A1 2SC945(A) (Q,P)	TRANSISTOR TRANSISTOR TRANSISTOR DIODE TRANSISTOR		
D26 -46 D26 -46 D27 D28 D29			1SS133 1SS176 2SC945(A) (Q,P) 2SA733(A) (Q,P) 2SC945(A) (Q,P)	DIODE DIODE TRANSISTOR TRANSISTOR TRANSISTOR		
D34 D35 ,36 D37 -39 D40 D41 -46			2SC945(A) (Q,P) 2SA733(A) (Q,P) 2SC945(A) (Q,P) 2SA733(A) (Q,P) 2SC945(A) (Q,P)	TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR		
D49 D53 D54 ,55 D61 -64 D61 -64			2SC945(A) (Q,P) 2SC945(A) (Q,P) 2SA733(A) (Q,P) 1SS133 1SS176	TRANSISTOR TRANSISTOR TRANSISTOR DIODE DIODE		
D69 -77 D69 -77 IC2 IC3 IC4 ,5		*	1SS133 1SS176 UPD7538AC-037 AN6888 UPD4081BC	DIODE DIODE IC (MICROPROCESSOR) IC (SPT LED LEVEL METER DR X2) IC (AND X4)		
IC6 Q1 ,2 Q3 -6 Q7 ,8 Q9 ,10			TD62554S 2SC1740S (Q,R) 2SC1845 (F,E) 2SC1740S (Q,R) 2SD1302 (S,T)	IC (4CH TRANSISTOR ARRAY) TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR		
Q11 ,12 Q13 -16 Q18 Q19 Q21 -25			2SC1845 (F,E) 2SC1740S (Q,R) 2SC1740S (Q,R) 2SC2320 (E,F) 2SC1740S (Q,R)	TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR		
Q26 Q27 Q28 Q29 Q30			2SA992 (F,E) 2SC1740S (Q,R) 2SA733S (Q,R) 2SC1740S (Q,R) 2SD863 (E,F)	TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR		

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Q31 -33 Q34 Q35 ,36 Q37 -39 Q40			2SC2320(E,F) 2SC1740S(Q,R) 2SA933S(Q,R) 2SC1740S(Q,R) 2SA933S(Q,R)	TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR		
Q41 -46 Q47 ,48 Q49 Q50 ,51 Q52			2SC1740S(Q,R) 2SC3666 2SC1740S(Q,R) 2SC3666 2SB772(R,Q,P)	TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR		
Q53 Q54 ,55 Q56 ,57 Q58 ,59			2SC1740S(Q,R) 2SA933S(Q,R) DTC143TFF 2SK246(Y,GR)	TRANSISTOR TRANSISTOR DIGITAL TRANSISTOR FET		
280	1G		W02-0693-05	ELECTRIC CIRCUIT MODULE		
PLAYBACK AMPLIFIER UNIT (X87-1100-04)						
C1 ,2 C3 ,4 C7 ,8 C9 C10			CK45FB1H681K CC45FSL1H121J CE04KW1A470M CE04KW1C470M CE04KW1A470M	CERAMIC 680PF K CERAMIC 120PF J ELECTRO 47UF 10WV ELECTRO 47UF 16WV ELECTRO 47UF 10WV		
C11 -14 C15 ,16 C17 ,18			CK45FB1H391K CF92FV1H822J CE04KW1V4R7M	CERAMIC 390PF K MF 8200PF J ELECTRO 4.7UF 35WV		
VR1 -4			R12-3101-05	TRIMMING PNT. (22K)PB LEVEL		
IC1 Q1 -4 Q1 -4			TA7705P 2SC1740S(Q,R) 2SC945(A)(Q,P)	IC(PB ED AMP/FWD REV SWITCH) TRANSISTOR TRANSISTOR		
RECORDING AMPLIFIER UNIT (X87-1140-01)						
C1 ,2 C3 ,4 C5 ,6 C7 ,8 C9 -12			CE04KW1HR22M CF92FV1H822J CF92FV1H153J CE04KW1H010M CE04KW1V100M	ELECTRO 0.22UF 50WV MF 8200PF J MF 0.015UF J ELECTRO 1.0UF 50WV ELECTRO 10UF 35WV		
C13 ,14 C15 ,16 C17 ,18 C19 ,20 C23 ,24			CF92FV1H472J CF92FV1H123J CF92FV1H472J CF92FV1H103J CF92FV1H392J	MF 4700PF J MF 0.012UF J MF 4700PF J MF 0.010UF J MF 3900PF J		
C25 -28 C29 ,30 C31 ,32 C36 C37 ,38			CF92FV1H822J CF92FV1H682J CF92FV1H332J CE04KW1V100M CF92FV1H152J	MF 8200PF J MF 6800PF J MF 3300PF J ELECTRO 10UF 35WV MF 1500PF J		
L1 ,2 L3 ,4		*	L40-1835-29 L40-4725-29	SMALL FIXED INDUCTOR(18MH,G) SMALL FIXED INDUCTOR(4.7MH,J)		
J1 -7 R1 ,2 R3 ,4 R5 ,6 R7 ,8			R92-0350-05 RD41FB2B822J RD41FB2B682J RD41FB2B103J RD41FB2B224J	JUMPER WIRE (RESISTOR TYPE) CYLND CHIP R 8.2K J 1/8W CYLND CHIP R 6.8K J 1/8W CYLND CHIP R 10K J 1/8W CYLND CHIP R 220K J 1/8W		
R9 ,10			RD41FB2B182J	CYLND CHIP R 1.8K J 1/8W		

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R11 ,12		*	RD41FB2B104J	CYLND CHIP R 100K J 1/8W		
R13 ,14		*	RD41FB2B563J	CYLND CHIP R 56K J 1/8W		
R15 ,16			RD41FB2B103J	CYLND CHIP R 10K J 1/8W		
R17 ,18		*	RD41FB2B392J	CYLND CHIP R 3.9K J 1/8W		
R19 ,20			RD41FB2B103J	CYLND CHIP R 10K J 1/8W		
R21 ,22			RD41FB2B472J	CYLND CHIP R 4.7K J 1/8W		
R23 ,24		*	RD41FB2B561J	CYLND CHIP R 560 J 1/8W		
R25 ,26			RD41FB2B224J	CYLND CHIP R 220K J 1/8W		
R27 ,28		*	RD41FB2B183J	CYLND CHIP R 18K J 1/8W		
R29 ,30			RD41FB2B562J	CYLND CHIP R 5.6K J 1/8W		
R31 ,32			RD41FB2B103J	CYLND CHIP R 10K J 1/8W		
R33 ,34			RD41FB2B822J	CYLND CHIP R 8.2K J 1/8W		
R35 ,36			RD41FB2B471J	CYLND CHIP R 470 J 1/8W		
R39 ,40		*	RD41FB2B183J	CYLND CHIP R 18K J 1/8W		
R41 ,42			RD41FB2B222J	CYLND CHIP R 2.2K J 1/8W		
R43 ,44			RD41FB2B752J	CYLND CHIP R 7.5K J 1/8W		
R45 ,46			RD41FB2B182J	CYLND CHIP R 1.8K J 1/8W		
VR1 ,2			R12-3101-05	TRIMMING PØT. (22K)REC LEVEL		
IC1 ,2			BA6251F	IC(7CH TRANSISTØR ARRAY)		
IC3			M5218P-A	IC(OP AMP X2)		
Q1 ,2			25C2713	TRANSISTØR		
MECHANISM ASS'Y (A) (X92-1170-04)						
4	2A	*	A11-0215-03	SUB CHASSIS ASSY		
5	1B		D01-0066-05	FLYWHEEL ASSY		
7	2A		D03-0236-04	REEL DISK		
8	2A		D03-0244-05	REEL DISK ASSY		
9	2B		D10-1404-15	ARM ASSY (F ARM)		
10	2B		D10-1405-03	SLIDER (FUNCTION)		
11	2B		D10-1406-03	ARM (DIRECTION)		
12	2B		D10-1407-03	ARM (FD TRIGGER)		
13	2B		D10-1408-03	ARM (FR TRIGGER)		
14	2A		D10-1409-04	ARM (LOCK)		
15	2A		D10-1410-03	SLIDER (DIRECTION)		
16	1A		D10-1411-03	LEVER		
17	3A		D10-1649-14	LEVER		
18	3A		D21-1098-04	SHAFT		
19	3A		D32-0138-04	STØPPER (L)		
20	2B		D13-0613-02	GEAR (TD TRIGGER, BLK)		
21	2B		D13-0267-12	GEAR (FR TRIGGER)		
22	2A	*	D14-0186-05	IDLER ASSY (ØWY)		
23	2A		D14-0184-03	PINCH RØLLER ASSY		
25	1B		D16-0083-04	BELT		
26	1B		D16-0116-04	BELT		
27	2A		D19-0073-04	HUB SHAFT		
28	2A		D30-0018-05	BRAKE		
30	2A	*	E31-3965-05	LEAD WIRE (HEAD)		
34	3A	*	F10-0613-04	SHIELDING PLATE		
36	2A		G01-1670-04	COMPRESSION SPRING(R/P HEAD)		
37	2A		G01-1911-04	COMPRESSION SPRING(BK TENTION)		
39	2B		G01-1667-04	EXTENSION SPRING(FR TRIGGER)		
40	2B		G01-1668-04	EXTENSION SPRING(F ARM)		
41	2B		G01-2045-04	EXTENSION SPRING(DIRECTION)		

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42	1B		G01-1671-04	COMPRESSION SPRING(FLYWHEEL)		
43	2A		G01-1912-14	TORSION COIL SPRING(RETURN)		
44	2A		G01-1677-04	TORSION COIL SPRING(IDLER)		
45	2B		G01-1678-04	TORSION COIL SPRING(TD TRIGGER)		
46	2B		G01-1679-04	TORSION COIL SPRING(FRSP)		
47	2B		G01-1680-04	TORSION COIL SPRING(FUNCTION)		
48	2A		G01-1681-14	TORSION COIL SPRING(BRAKE)		
50	3A		G01-1839-14	EXTENSION SPRING(LOCK LEVER, R0)		
51	2A	*	G01-1743-14	TORSION COIL SPRING(EL)		
52	2A	*	G01-1967-04	TORSION COIL SPRING		
55	1A	*	G02-0424-04	FLAT SPRING		
56	3A	*	G02-0423-04	FLAT SPRING		
57	3A		G02-0390-04	FLAT SPRING (PANEL-L)		
58	1B		G16-0108-14	SHEET		
59	2A		G16-0109-08	SHEET		
63	3A		J19-2644-04	HOLDER		
65	1A		J21-3834-04	SWITCH MOUNTING HARDWARE		
66	1B	*	J21-3642-14	FLYWHEEL MOUNTING HARDWARE		
67	1B	*	J21-3702-13	MOUNTING HARDWARE ASSY(MOTOR)		
68	3A		J31-0179-14	COLLAR (LOCK LEVER)		
-			J61-0054-05	WIRE BAND		
-			J61-0307-05	WIRE BAND		
72	1B		N19-0367-14	FLAT WASHER		
73	2A		N19-0365-04	FLAT WASHER (Ø1.2)HUB SHAFT		
74	2A		N19-0986-04	FLAT WASHER (Ø1.7)REEL DISK		
D	3B		N09-1495-05	MACHINE SCREW(M2X5)PLAY SW		
E	3A, 1B		N09-1306-05	TAPPING SCREW(Ø3X6)		
U	2B		N09-1679-15	TAPTITE SCREW(FD GEAR)		
Y	3A		N09-1561-05	TAPTITE SCREW(Ø3X6,+)		
S1	1A		S46-1029-25	LEAF SWITCH (CR02)		
S2	3B		S46-1046-05	LEAF SWITCH (PLAY)		
S3	1B		S46-1075-05	LEAF SWITCH (HALF)		
81	1A		T32-0308-05	ERASE HEAD (DUMMY)		
82	2A	*	T34-0320-05	RECORD/PLAYBACK HEAD		
83	1B		T42-0424-04	MOTOR ASSY		
86	2B		T95-0028-05	NPT0 ISOLATOR		
S0L1	2B		T94-0084-05	SOLENOID COIL		
S0L2	2B		T94-0086-15	SOLENOID COIL		
MECHANISM ASS'Y (B) (X92-1170-06)						
4	2C	*	A11-0193-13	SUB CHASSIS (R ER)		
5	1D		D01-0066-05	FLYWHEEL ASSY		
6	1D		D01-0067-05	FLYWHEEL ASSY		
7	2C		D03-0236-04	REEL DISK		
8	2C		D03-0244-05	REEL DISK ASSY		
9	2D		D10-1404-15	ARM ASSY (F ARM)		
10	2D		D10-1405-03	SLIDER (FUNCTION)		
11	2D		D10-1406-03	ARM (DIRECTION)		
12	2D		D10-1407-03	ARM (FD TRIGGER)		
13	2D		D10-1408-03	ARM (FR TRIGGER)		
14	3D		D10-1409-04	ARM (LOCK)		
15	2C		D10-1410-03	SLIDER (DIRECTION)		
16	1C		D10-1411-03	LEVER		

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17	3D		D10-1650-14	LEVER		
18	3C		D21-1098-04	SHAFT		
20	2D		D13-0613-02	GEAR (TD TRIGGER, BLK)		
21	2D		D13-0267-12	GEAR (FR TRIGGER)		
22	2C		D14-0179-05	IDLER ASSY (RVS)		
24	1C		D14-0185-03	PINCH ROLLER ASSY		
25	1D	*	D16-0156-04	BELT (RVS X2)		
26	2D		D16-0116-04	BELT		
27	2C		D19-0073-04	HUB SHAFT		
28	2C		D30-0018-05	BRAKE		
30	1C	*	E31-3967-05	LEAD WIRE (HEAD)		
34	3C	*	F10-0613-04	SHIELDING PLATE		
37	2C		G01-1911-04	COMPRESSION SPRING(BK TENTION)		
38	2C		G01-1666-08	EXTENSION SPRING(DIRECTION)		
39	2D		G01-1667-04	EXTENSION SPRING(FR TRIGGER)		
40	2D		G01-1668-04	EXTENSION SPRING(F ARM)		
41	2D		G01-2045-04	EXTENSION SPRING(DIRECTION)		
42	1D		G01-1671-04	COMPRESSION SPRING(FLYWHEEL)		
43	2C		G01-1912-14	TORSION COIL SPRING(RETURN)		
44	2C		G01-1677-04	TORSION COIL SPRING(IDLER)		
45	2D		G01-1678-04	TORSION COIL SPRING(TD TRIGGER)		
46	2D		G01-1679-04	TORSION COIL SPRING(FRSP)		
47	2D		G01-1680-04	TORSION COIL SPRING(FUNCTION)		
48	2C		G01-1681-14	TORSION COIL SPRING(BRAKE)		
49	3D		G01-1682-04	TORSION COIL SPRING(ER)		
50	3C		G01-1839-14	EXTENSION SPRING(LOCK LEVER, R0)		
52	2C	*	G01-1967-04	TORSION COIL SPRING(R)		
53	1C	*	G01-1968-04	TORSION COIL SPRING(L)		
54	1C		G01-1758-08	COMPRESSION SPRING (AZIMUTH)		
55	1C	*	G02-0424-04	FLAT SPRING		
56	3C	*	G02-0423-04	FLAT SPRING		
57	3C	*	G02-0422-04	FLAT SPRING (PANEL-R)		
58	1D		G16-0108-14	SHEET		
59	2C		G16-0109-08	SHEET		
63	3C		J19-2644-04	HOLDER		
64	1C		J19-2528-05	HOLDER ASSY		
65	1C		J21-3624-04	SWITCH MOUNTING HARDWARE		
66	1D		J21-3951-04	FLYWHEEL MOUNTING HARDWARE		
67	1D	*	J21-3952-03	MOUNTING HARDWARE ASSY		
68	3D		J31-0179-14	COLLAR (LOCK LEVER)		
70	1C		J90-0158-08	GUIDE		
71	1C		J90-0159-08	GUIDE		
-			J61-0054-05	WIRE BAND		
-			J61-0307-05	WIRE BAND		
72	1D		N19-0367-14	FLAT WASHER (Ø2.6) FLYWHEEL		
73	2C		N19-0365-04	FLAT WASHER		
74	2C		N19-0986-04	FLAT WASHER		
D	3C		N09-1495-05	MACHINE SCREW(M2X5)PLAY SW		
E	1D, 3D		N09-1306-05	TAPPING SCREW(Ø3X6)		
H	1C		N09-1491-05	MACHINE SCREW(M1.7X5.2)AZIMUTH		
U	2D		N09-1679-15	TAPTITE SCREW(FD GEAR)		

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Y	3C		N09-1561-05	TAPTITE SCREW(Ø3X6,+)		
S1	1C		S46-1029-25	LEAF SWITCH (TAPE SELECTOR)		
S2	3C		S46-1046-05	LEAF SWITCH (PLAY)		
S3	1D		S46-1075-05	LEAF SWITCH (HALF)		
S4	1C		S46-1029-25	LEAF SWITCH (TAPE SELECTOR)		
S6	3D		S46-1068-05	LEAF SWITCH (DIRECTION)		
S7	1C		S46-1029-25	LEAF SWITCH (TAPE SELECTOR)		
B2	1C	*	T39-0004-05	RECORD/PLAYBACK ERASE HEAD		
B3	1D		T42-0424-04	MOTOR ASSY		
B6	2D		T95-0028-05	OPTO ISOLATOR		
SOL1	2D		T94-0084-05	SOLENOID COIL		
SOL2	2D		T94-0086-15	SOLENOID COIL		
DOLBY B/C NOISE REDUCTION UNIT (W02-0693-05)						
IC1			HA12088NT	IC(DOLBY B/C NOISE REDUCTION)		

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SPECIFICATIONS

Type	Stereo Double Full Logic Cassette Deck with Dolby B, C NR Tape A : One way, Tape B : Auto reverse
Track System	4-track, 2-channel stereo/mono, recording/playback
Recording System	AC bias system (Bias frequency: 105 kHz)
Erasing System	AC system
Tape Speed	4.76 cm/sec (1-7/8 ips)
Heads	Hard permalloy playback/record head x 1 Hard permalloy playback head x 1 Double gap ferrite erasing head x 1
Motor	Electronically-controlled DC motor x 2
Fast Winding Time	Approx. 80 seconds with C-60 tape
Frequency Response:	
Normal Tape	20 Hz to 15,000 Hz (30 Hz to 14,000 Hz, ± 3 dB)
CrO₂ 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 C Type NR ON	73 dB (Normal tape)
Dolby B Type NR ON	63 dB (Normal tape)
Dolby NR OFF	56 dB (Normal tape)
Harmonic Distortion	Less than 0.6% (at 1 kHz, 0 VU with normal tape)
Wow and Flutter	0.1 % (W.R.M.S), $\pm 0.25\%$ (DIN)
Input sensitivity/Impedance:	
LINE x 2	77.5 mV/50 kohms
Output Level/Output Impedance:	
LINE x 2	270 mV/3.3 kohms
Power Consumption	20 W
Diensions	W: 420 mm (16-9/16") H: 119 mm (4-13/16") D: 265 mm (10-3/8")
Weight (Net)	5.1 kg (11.2 lb)
Reference Tapes	Normal: KENWOOD ND-54 CrO ₂ : KENWOOD CD-54 Metal: KENWOOD MD-46

Kenwood follows a policy of continuous advancements in development.
For this reason specifications may be changed without notice.
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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.
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