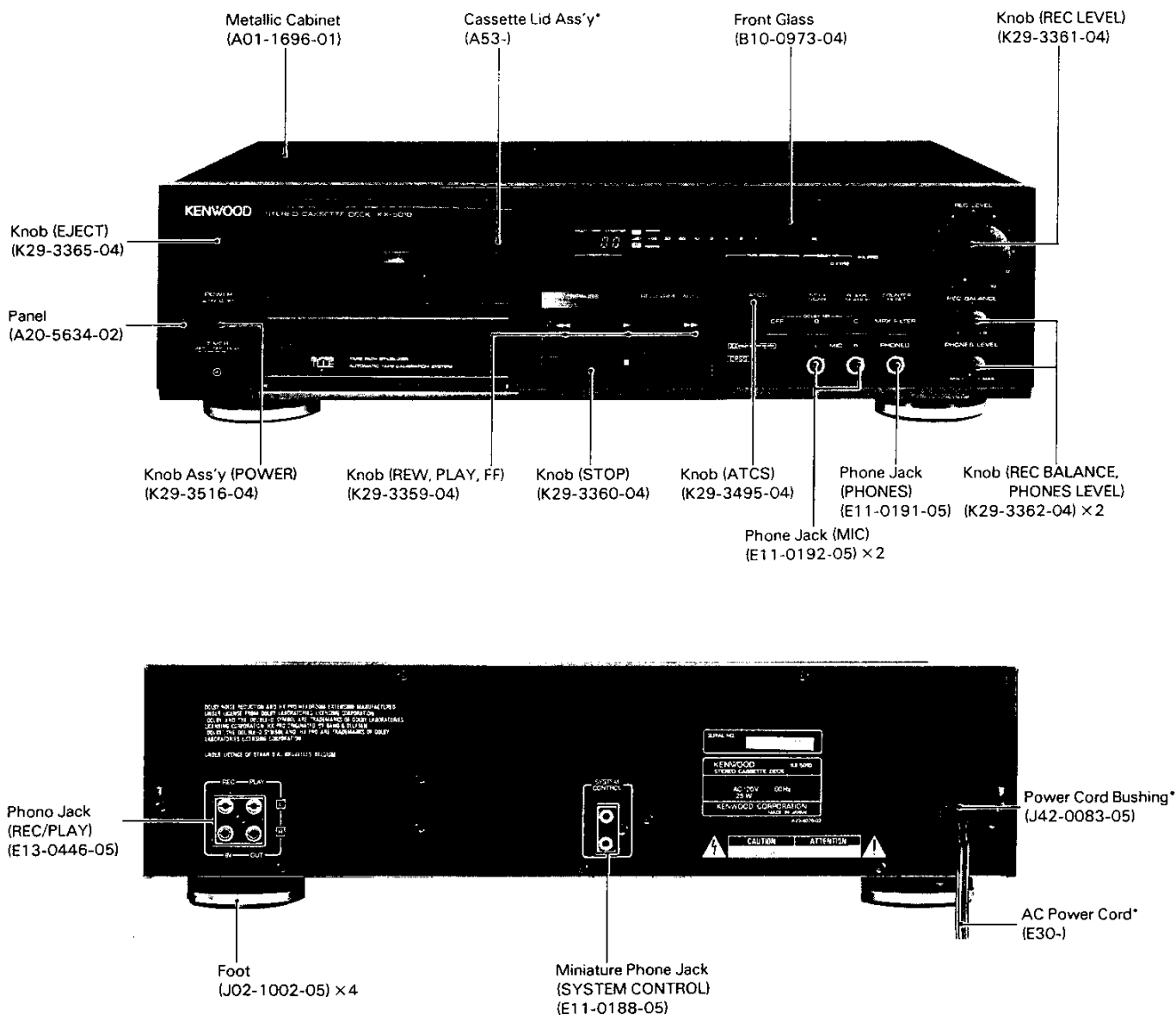


KX-5010

SERVICE MANUAL

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For Service Manuals Contact
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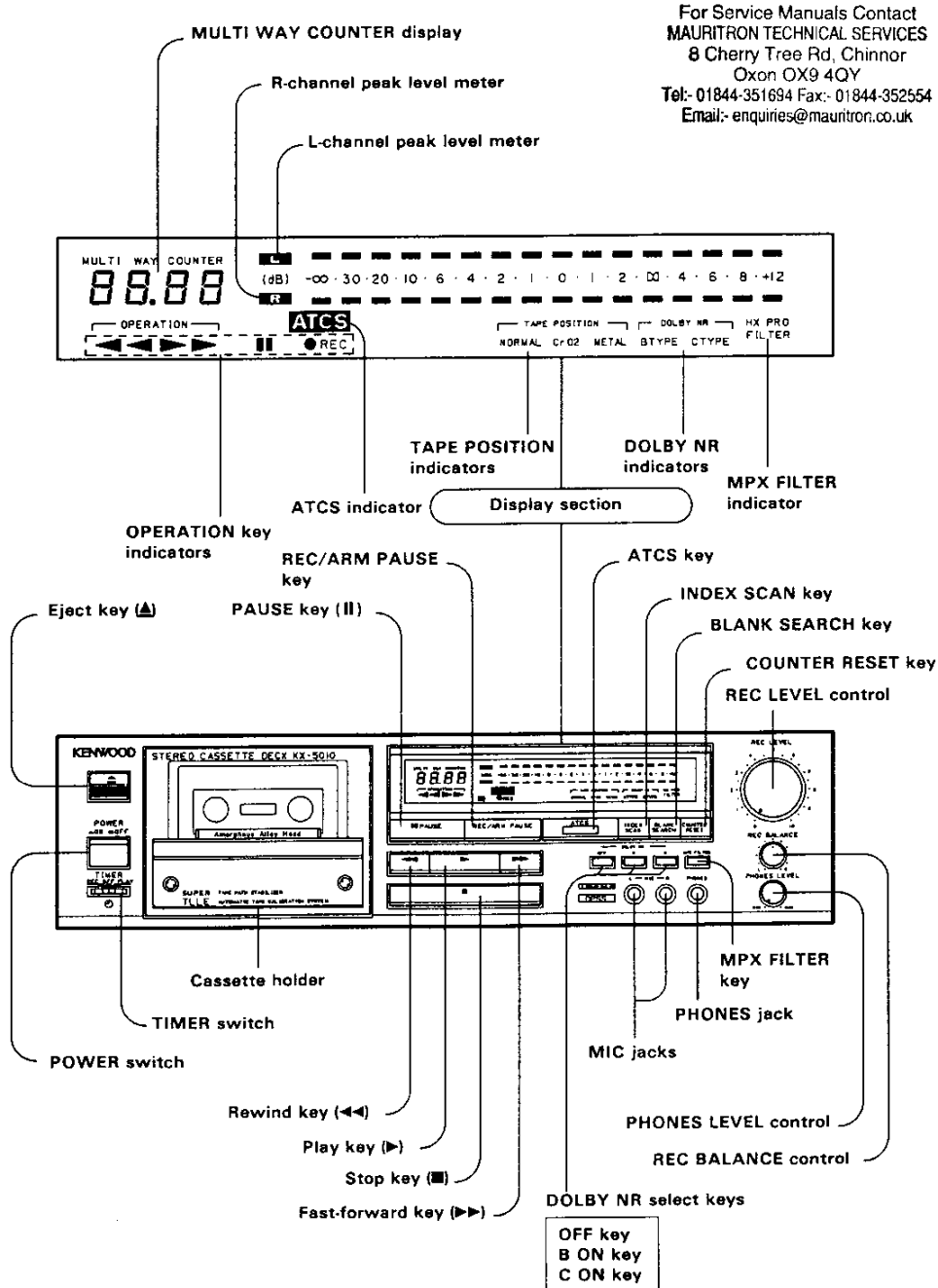


* Refer to parts list on page 41.

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CONTROL AND INDICATOR



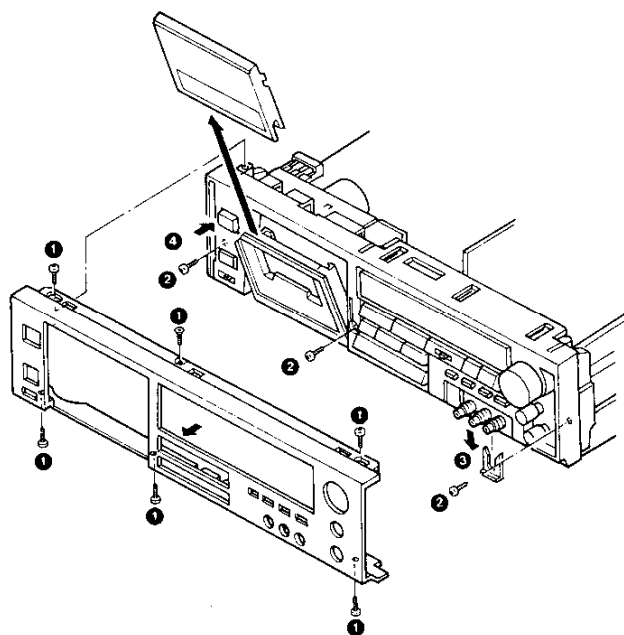
DISASSEMBLY FOR REPAIR

• Removing the front panel and mechanism ass'y

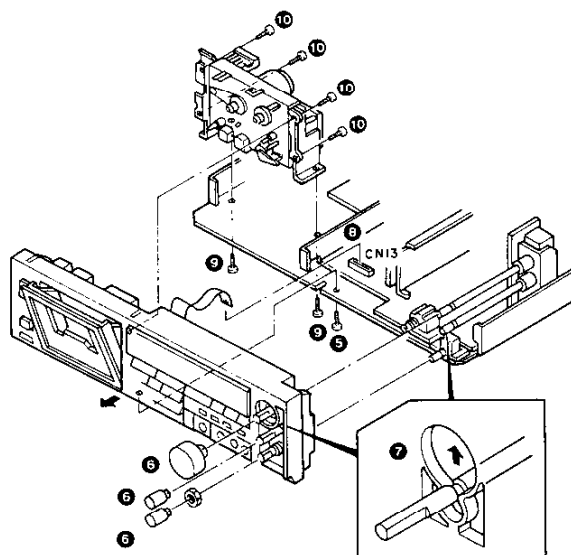
* Remove the case beforehand.

1. Remove the six screws **1** and take out the front panel.
2. Remove the three screws **2**.
3. Remove the PHONES jack fixture **3** in the direction of the arrow.
4. Press the EJECT knob and detach the cassette lid **4**.

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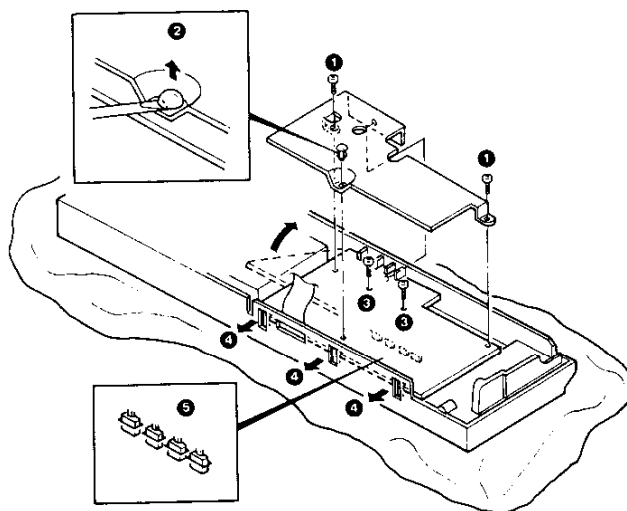
5. Remove the one screw **5**.
6. Take out the REC LEVEL, REC BALANCE and PHONES LEVEL control knobs and remove the hexagonal nut of the PHONES LEVEL control knob ... **6**
7. Detach the two shafts from the sub panel in the direction of the arrow ... **7**
8. Disconnect the flexible board from X26-(A/3) CN13 ... **8**
9. Remove the two screws **9** fixing the mechanism.
10. Remove the four screws **10** and take out the mechanism ass'y.



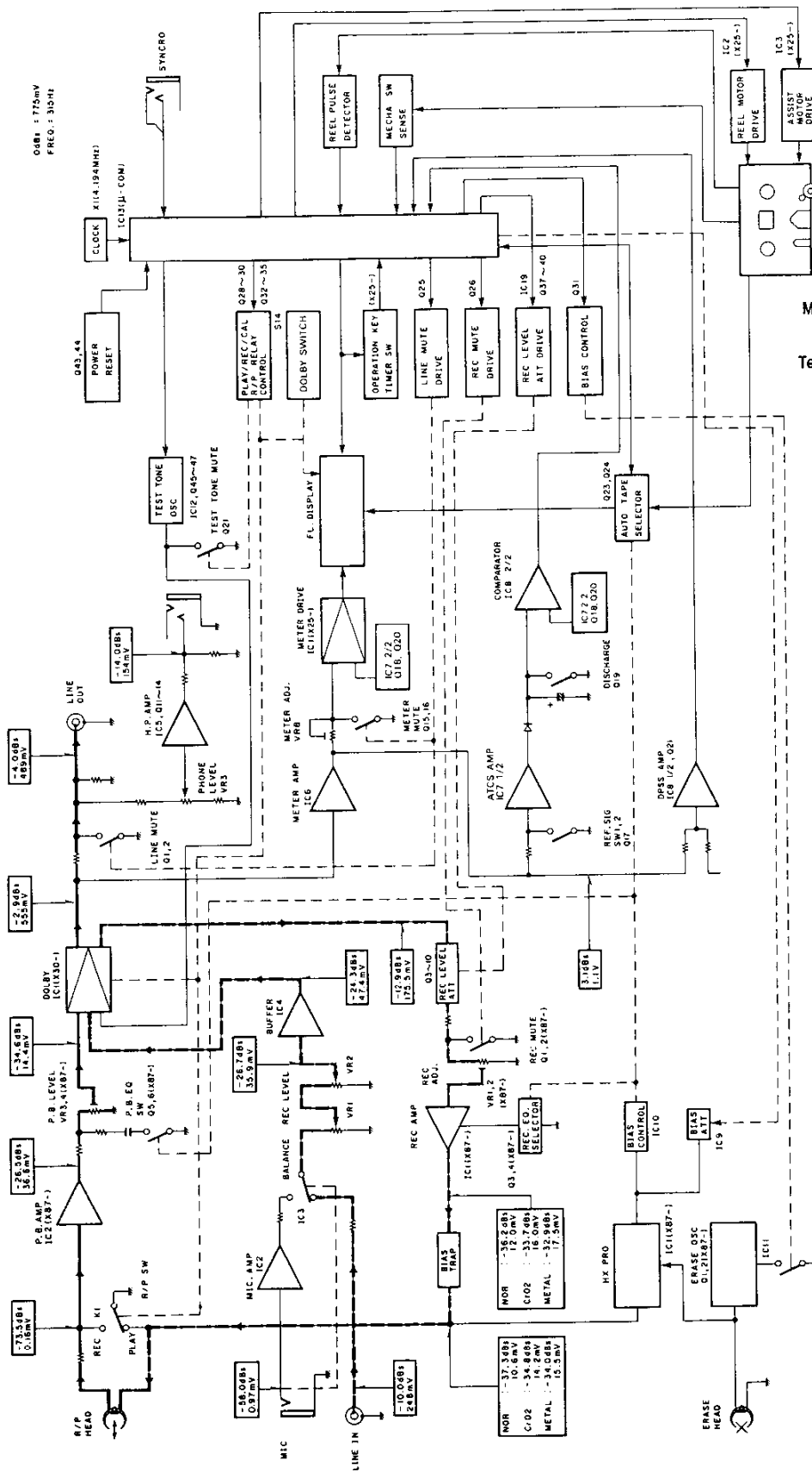
• Removing the operation section unit

1. Remove the two screws **1**.
2. Drive off the push rivet **2** by a screwdriver, etc. and detach the metal piece.
3. Remove the two screws **3**.
4. Undo the catches in the directions of arrows and take out the operation section unit **4**.

Note: When installing the operation section unit, put the DOLBY NR and MPX FILTER knobs into the cuts on the sub panel ... **5**

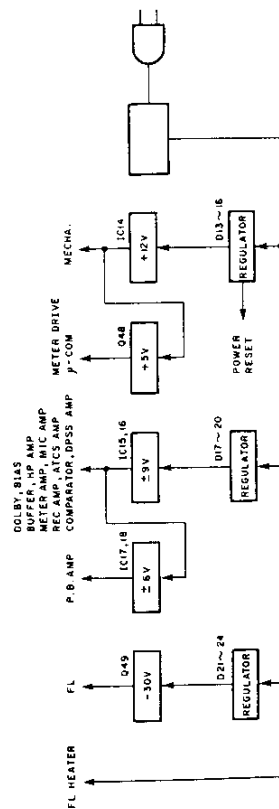


BLOCK LEVEL DIAGRAM



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XX-5010



CIRCUIT DESCRIPTION

Functions of Components:

Display Unit (X25-3430-11: K, P, 0-81: U, UE, M, 2-71: X, T, E)

Component	Component Name	Use/Function	Operation/Condition/Compatibility
Q1, 2	2SA733 (A)(Q, P) 2SA933S (Q, R)	Grid control voltage control	When the FL tube lights, the pins 9 and 10 (meter's L and R dynamic signals are generated on duty cycle 25%) of IC1 become "L" and Q1 and Q2 turn ON to apply voltage to 1GB and 2GB.
Q3	2SC1740S (Q, R) 2SC945 (A)(Q, P)	Reel motor drive control voltage control	This component turns ON in the PLAY or REC mode. When an "H" signal is output from the pin 41 (RMV-SW) of microprocessor IC13, Q3 turns ON so that the voltage at the pin 4 of IC2 becomes 3.8 V. In any other mode, Q3 turns OFF so that the voltage at the pin 4 of IC2 becomes 4.8—5 V.
Q4, 5	2SC1740S (Q, R) 2SC945 (A)(Q, P)	Rotation detection amplification	The switching signal (5 pulses) in proportion to the rotating speed of the reel stand is obtained from the mechanism for waveform shaping.
Q6, 8	DTC124EN	Grid control voltage control and key scan signal buffer	When "H" signals are output to the pin 47 (2GA) and pin 48 (1GA9) of microprocessor IC13, Q6—Q9 turn ON to apply voltage to the pin 20 (2GA) and pin 21 (1GA) of the FL tube, thus concurrently preventing the voltage drops across KR2 and KR4.
Q7, 9	DTA124EN		
IC1	BA6805A	Level meter drive	2-channel 16-point dynamic lighting
IC2	BA6229	Reel motor driver	
IC3	BA6209	Assist motor drive	

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Cassette Unit (X26-1220-11)

Component	Component Name	Use/Function	Operation/Condition/Compatibility																				
Q1, 2	2SC2878 (B) 2SD1302 (S, T)	Line mute switch	In the PLAY, REC or REC PAUSE mode, the pin 7 (LM) of microprocessor IC13 becomes "H" and Q25 turns ON so that Q1 and Q2 turn OFF.																				
Q3~10	2SC1740S (Q, R) 2SC945 (A)(Q, P)	Recording level attenuation switch	At the time of ATCS, the recording input level to the recording amplifier is varied to correct the tape recording sensitivity. (Max. 16 steps) Due to the H/L operation of the pins 11—14 (LEVEL#1—LEVEL#4) of microprocessor IC13, driver transistors Q37—Q40 turn OFF/ON so that transistors Q3—Q10 are turned OFF/ON correspondingly. <table border="1"> <thead> <tr> <th></th><th>μ-COM</th><th>DRIVER</th><th>ATT switch</th></tr> </thead> <tbody> <tr> <td>MSB</td><td>LEVEL#4 (P14): H/L</td><td>Q40: OFF/ON</td><td>Q3, 4: OFF/ON</td></tr> <tr> <td>MSB</td><td>LEVEL#3 (P13): H/L</td><td>Q39: OFF/ON</td><td>Q5, 6: OFF/ON</td></tr> <tr> <td>MSB</td><td>LEVEL#2 (P12): H/L</td><td>Q38: OFF/ON</td><td>Q7, 8: OFF/ON</td></tr> <tr> <td>LSB</td><td>LEVEL#1 (P11): H/L</td><td>Q37: OFF/ON</td><td>Q9, 10: OFF/ON</td></tr> </tbody> </table> Initial value LEVEL#4="L" Q40=ON Q3, 4=ON LEVEL#1—3="H" Q37—39=OFF Q5—10=OFF		μ -COM	DRIVER	ATT switch	MSB	LEVEL#4 (P14): H/L	Q40: OFF/ON	Q3, 4: OFF/ON	MSB	LEVEL#3 (P13): H/L	Q39: OFF/ON	Q5, 6: OFF/ON	MSB	LEVEL#2 (P12): H/L	Q38: OFF/ON	Q7, 8: OFF/ON	LSB	LEVEL#1 (P11): H/L	Q37: OFF/ON	Q9, 10: OFF/ON
	μ -COM	DRIVER	ATT switch																				
MSB	LEVEL#4 (P14): H/L	Q40: OFF/ON	Q3, 4: OFF/ON																				
MSB	LEVEL#3 (P13): H/L	Q39: OFF/ON	Q5, 6: OFF/ON																				
MSB	LEVEL#2 (P12): H/L	Q38: OFF/ON	Q7, 8: OFF/ON																				
LSB	LEVEL#1 (P11): H/L	Q37: OFF/ON	Q9, 10: OFF/ON																				
Q11, 12	2SC2003 (L, K)	Headphone amplifier current buffer	Headphone amplifier output current buffer																				
Q13, 14	2SA954 (L, K)																						
Q15, 16	2SC2878 (B) 2SD1302 (S, T)	Meter mute switch	In the PLAY, REC or REC PAUSE mode, the pin 7 (LM) of microprocessor IC13 becomes "H" and Q25 turns OFF so that Q15 and Q16 are turned OFF.																				
Q17, 18	2SC1740S (Q, R) 2SC945 (A)(Q, P)	ATCS amplifier gate switch	At the time of ATCS, the test signal and reference signal recorded on the tape are distributed between IC7 1/2 and 2/2. In normal operation, Q17 and Q18 both turn ON.																				
Q19, 20	2SC1740S (Q, R) 2SC945 (A)(Q, P)	Discharge switch	For bias or level adjustment at the time of ATCS, these components turn OFF. Otherwise, they are ON.																				
Q21	2SC1740S (Q, R) 2SC945 (A)(Q, P)	DPSS amplifier sensitivity selection switch	In the PLAY mode, this component turns ON to raise the DPSS amplifier sensitivity. In the CUE or REVIEW mode, it turns OFF to lower the DPSS amplifier sensitivity.																				
Q22	2SC1740S (Q, R) 2SC945 (A)(Q, P)	Test signal mute switch	At the time of ATCS, this component is turned OFF to pass the test signal. In normal operation, it is ON.																				

CIRCUIT DESCRIPTION

Cassette Unit (X26-1220-11)

Cassette Unit (X26-1220-11)

Component	Component Name	Use/Function	Operation/Condition/Compatibility																
Q23, 24	2SA733 (A) (Q, P) 2SA933S (Q, R)	Auto tape selection control	These components are ON/OFF controlled by the tape detection switch in the mechanism. <table><tr><td></td><td>Nor.</td><td>CrO₂</td><td>METAL</td></tr><tr><td>Q23</td><td>OFF</td><td>ON</td><td>OFF</td></tr><tr><td>Q24</td><td>OFF</td><td>OFF</td><td>ON</td></tr></table>		Nor.	CrO ₂	METAL	Q23	OFF	ON	OFF	Q24	OFF	OFF	ON				
	Nor.	CrO ₂	METAL																
Q23	OFF	ON	OFF																
Q24	OFF	OFF	ON																
Q25	2SA733 (A) (Q, P) 2SA933S (Q, R)	Line mute drive	This component is ON/OFF controlled by the output of the pin 7 (LM) of microprocessor IC13. <table><tr><td></td><td>PLAY, REC, REC · PAUSE</td><td>OTHERS</td><td>Power ON/OFF</td></tr><tr><td>Q25</td><td>OFF</td><td>ON</td><td>ON</td></tr></table>		PLAY, REC, REC · PAUSE	OTHERS	Power ON/OFF	Q25	OFF	ON	ON								
	PLAY, REC, REC · PAUSE	OTHERS	Power ON/OFF																
Q25	OFF	ON	ON																
Q26	2SA733 (A) (Q, P) 2SA933S (Q, R)	Recording mute drive	This component is ON/OFF controlled by the output of the pin 8 (RM) of microprocessor IC13. <table><tr><td></td><td>REC</td><td>REC · MUTE</td><td>OTHERS</td><td>Power ON/OFF</td></tr><tr><td>Q26</td><td>OFF</td><td>ON</td><td>ON</td><td>ON</td></tr></table> Q1 and Q2 in the recording amplifier unit of DT2 (X87-1030-06 A/2) are turned ON/OFF in concert with the ON/OFF operation of Q26.		REC	REC · MUTE	OTHERS	Power ON/OFF	Q26	OFF	ON	ON	ON						
	REC	REC · MUTE	OTHERS	Power ON/OFF															
Q26	OFF	ON	ON	ON															
Q28	DTC124EN	PLAY/REC/CAL and R/P relay control, and ATCS Dolby NR cancel	Due to the H/L operation of the pin 9 (R/P) of microprocessor IC13, Q28 and Q29 are turned ON/OFF to turn ON/OFF the R/P relay (K1). At the same time, in combination with the H/L operation of the pin 15 (ATCS), the Dolby PLAY, REC or CAL mode or the Dolby NR cancel is performed. Q30, Q32, Q33 and Q34 are for selection between Dolby PLAY, REC and CAL modes, and Q35 is for Dolby NR cancel. Dolby PLAY/REC/CAL <table><tr><td></td><td>ATCS = "L"</td><td>ATCS = "H"</td></tr><tr><td>R/P (P9) = "L"</td><td>PLAY</td><td>PLAY</td></tr><tr><td>R/P (P9) = "H"</td><td>CAL</td><td>REC</td></tr></table>		ATCS = "L"	ATCS = "H"	R/P (P9) = "L"	PLAY	PLAY	R/P (P9) = "H"	CAL	REC							
	ATCS = "L"		ATCS = "H"																
R/P (P9) = "L"	PLAY		PLAY																
R/P (P9) = "H"	CAL		REC																
Q29,30	2SA733 (A)(Q, P) 2SA933S (Q, R)	Dolby NR <table><tr><td></td><td>ATCS = "L"</td><td>ATCS = "H"</td></tr><tr><td>R/P (P9) = "L"</td><td>OFF</td><td>OFF or B or C</td></tr><tr><td>R/P (P9) = "H"</td><td>OFF</td><td>OFF or B or C</td></tr></table>		ATCS = "L"	ATCS = "H"	R/P (P9) = "L"	OFF	OFF or B or C	R/P (P9) = "H"	OFF	OFF or B or C								
	ATCS = "L"	ATCS = "H"																	
R/P (P9) = "L"	OFF	OFF or B or C																	
R/P (P9) = "H"	OFF	OFF or B or C																	
Q32	DTA124EN	R/P relay (K1) <table><tr><td></td><td>ATCS = "L"</td><td>ATCS = "H"</td></tr><tr><td>R/P (P9) = "L"</td><td>OFF</td><td>OFF</td></tr><tr><td>R/P (P9) = "H"</td><td>ON</td><td>ON</td></tr></table>		ATCS = "L"	ATCS = "H"	R/P (P9) = "L"	OFF	OFF	R/P (P9) = "H"	ON	ON								
	ATCS = "L"	ATCS = "H"																	
R/P (P9) = "L"	OFF	OFF																	
R/P (P9) = "H"	ON	ON																	
Q33~35	DTC124EN																		
Q31	DTA124EN	Bias ON/OFF drive	Due to the H/L operation of the pin 10 (BIAS) of microprocessor IC13, Q31 is turned OFF/ON to turn OFF/ON inverter IC11, so that that bias oscillator is turned ON/OFF. <table><tr><td></td><td>REC</td><td>OTHERS</td><td>Power ON/OFF</td></tr><tr><td>BIAS (P10)</td><td>"H"</td><td>"L"</td><td>"L"</td></tr><tr><td>Q31</td><td>OFF</td><td>ON</td><td>ON</td></tr><tr><td>BIAS OSC</td><td>ON</td><td>OFF</td><td>OFF</td></tr></table>		REC	OTHERS	Power ON/OFF	BIAS (P10)	"H"	"L"	"L"	Q31	OFF	ON	ON	BIAS OSC	ON	OFF	OFF
	REC	OTHERS	Power ON/OFF																
BIAS (P10)	"H"	"L"	"L"																
Q31	OFF	ON	ON																
BIAS OSC	ON	OFF	OFF																
Q36	DTC124EN	Cassette half indicator control	This component functions to let "Normal", "CrO₂" and "METAL" in the FL tube light or go out according to the presence or absence of the cassette half of the mechanism. <table><tr><td>Cassette half</td><td>Q36</td></tr><tr><td>Provided</td><td>OFF</td></tr><tr><td>Not provided</td><td>ON</td></tr></table>	Cassette half	Q36	Provided	OFF	Not provided	ON										
Cassette half	Q36																		
Provided	OFF																		
Not provided	ON																		
Q37~40	DTA124EN	Recording level attenuation switch driver	Refer to the description under "Q3-10".																

CIRCUIT DESCRIPTION

Cassette Unit (X26-1220-11)

Component	Component Name	Use/Function	Operation/Condition/Compatibility															
Q43, 44	2SC1740S (Q, R) 2SC945 (A) (Q, P)	Microprocessor reset	At the time of power ON/OFF, an "L" signal is applied to the pin 61 (RESET) of microprocessor IC13 to reset. <table><tr><td></td><td>Right after power ON</td><td>Right after power OFF</td></tr><tr><td>Q43</td><td>ON</td><td>OFF</td></tr><tr><td>Q44</td><td>OFF after being ON for a fixed time</td><td>OFF after being ON for a fixed time</td></tr></table>		Right after power ON	Right after power OFF	Q43	ON	OFF	Q44	OFF after being ON for a fixed time	OFF after being ON for a fixed time						
	Right after power ON	Right after power OFF																
Q43	ON	OFF																
Q44	OFF after being ON for a fixed time	OFF after being ON for a fixed time																
Q45	2SC1740S (Q, R) 2SC945 (A) (Q, P)	Test signal frequency selection	At the time of ATCS, the test signal oscillator oscillates at 400 Hz with Q45 On and at 10 kHz with Q45 OFF.															
Q46, 47	2SC1740S (Q, R) 2SC945 (A) (Q, P)	Filter cutoff frequency selection	The cutoff frequency is changed to remove the harmonic components from the square wave emitted from IC12 by low pass filtering. <table><tr><td></td><td>Q46, 47</td></tr><tr><td>400 Hz</td><td>ON</td></tr><tr><td>10 kHz</td><td>OFF</td></tr></table>		Q46, 47	400 Hz	ON	10 kHz	OFF									
	Q46, 47																	
400 Hz	ON																	
10 kHz	OFF																	
Q48	2SD1266 (Q, P)	+5 V power supply	Regulated power supply for microprocessor and FL display IC															
Q49	2SB941 (Q, P)	—30 V power supply	Regulated power supply for FL display circuit															
IC2	M5218P-A NJM4558D-A	MIC. amp.																
IC3	MB84066BM μPD4066BC	INPUT SELECTOR	For Service Manuals Contact MAURITRON TECHNICAL SERVICES 8 Cherry Tree Rd, Chinnor Oxon OX9 4QY Tel:- 01844-351694 Fax:- 01844-352554 Email:- enquiries@mauritron.co.uk															
IC4	M5218P-A NJM4558D	Multiplex filter buffer																
IC5	M5218P NJM4558D	Headphone amplifier																
IC6		Meter amplifier																
IC7		Level detection amplifier	At the time of ATCS, here is obtained the gain necessary to convert into DC the test signal or reference signal recorded on the tape.															
IC8	NJM072BD μPC4072C	DPSS amplifier and level comparator	IC8 1/2 is the DPSS amplifier. IC8 2/2 is the level comparator for ATCS															
IC9	TD62554S	BIAS Step	At the time of ATCS, the bias current is varied to correct the tape frequency response. (Max. 16 steps for normal tape, max. 14 steps for chrome tape, and max. 12 steps for metal tape) Due to the H/L operation of the pins 37—40 (BIAS#1—BIAS#4) of microprocessor IC13, the transistors in IC9 are turned ON/OFF to vary the bias current. <table><tr><td></td><td>μ-COM</td><td>ATT switch (IC9)</td></tr><tr><td>MSB</td><td>BIAS#4 (P40): H/L</td><td>INVERTER 1: ON/OFF</td></tr><tr><td>MSB</td><td>BIAS#3 (P39): H/L</td><td>INVERTER 2: ON/OFF</td></tr><tr><td>MSB</td><td>BIAS#2 (P38): H/L</td><td>INVERTER 3: ON/OFF</td></tr><tr><td>LSB</td><td>BIAS#1 (P37): H/L</td><td>INVERTER 4: ON/OFF</td></tr></table> Initial value BIAS#4="L" INVERTER 1=OFF BIAS#1~3="H" INVERTER2~4=ON		μ-COM	ATT switch (IC9)	MSB	BIAS#4 (P40): H/L	INVERTER 1: ON/OFF	MSB	BIAS#3 (P39): H/L	INVERTER 2: ON/OFF	MSB	BIAS#2 (P38): H/L	INVERTER 3: ON/OFF	LSB	BIAS#1 (P37): H/L	INVERTER 4: ON/OFF
	μ-COM	ATT switch (IC9)																
MSB	BIAS#4 (P40): H/L	INVERTER 1: ON/OFF																
MSB	BIAS#3 (P39): H/L	INVERTER 2: ON/OFF																
MSB	BIAS#2 (P38): H/L	INVERTER 3: ON/OFF																
LSB	BIAS#1 (P37): H/L	INVERTER 4: ON/OFF																
IC10	TD62554S	Normal/chrome tape bias setting	<table><tr><td></td><td>Normal</td><td>Chrome</td></tr><tr><td>LCH</td><td>INVERTER 3: ON</td><td>INVERTER 4: ON</td></tr><tr><td>RCH</td><td>INVERTER 1: ON</td><td>INVERTER 2: ON</td></tr></table>		Normal	Chrome	LCH	INVERTER 3: ON	INVERTER 4: ON	RCH	INVERTER 1: ON	INVERTER 2: ON						
	Normal	Chrome																
LCH	INVERTER 3: ON	INVERTER 4: ON																
RCH	INVERTER 1: ON	INVERTER 2: ON																
IC11	TD62554S	BIAS ON/OFF	Refer to the description under "Q31".															
IC12	NJM555D	Test signal oscillation	This component oscillates to generate the test signal for ATCS. The test signal oscillation is made or not made according to the H or L state of the pin 63 (T. TONE ON/OFF) of microprocessor IC13.															
IC13	CXP5096-003S	Microprocessor																
IC14	AN7812F μPC7812HF	+12 V power supply	Regulated power supply for mechanism system and relay drive															

CIRCUIT DESCRIPTION

Cassette Unit (X26-1220-11)

Component	Component Name	Use/Function	Operation/Condition/Compatibility
IC15	M5F78MO9L	+9 V power supply	Regulated power supply for signal system amplification
IC16	M5F79MO9L	—9 V power supply	Regulated power supply for signal system amplification
IC17	TA78L006AP	+6 V power supply	Regulated power supply for playback system amplification
IC18	TA79L006P	—6 V power supply	Regulated power supply for playback amplification
IC19	NJM78L05A μPC78L05J	+5 V power supply	Regulated power supply for recording level attenuation switch driver

Dolby Unit (X30-1270-03)

Component	Component Name	Use/Function	Operation/Condition/Compatibility
Q1—4	2SC1740S (Q, R) 2SC945 (A) (Q, P)	Multiplex filter switch	When the multiplex filter switch (S14-4: X25-3430A/6) is ON, an "H" signal is output to turn ON Q1-Q4 so that the filter is turned ON.
IC1	CX20188	Dolby B-C amplifier	This component works as the decoder and encoder.

Bias Oscillation Unit (X87-1270-00)

Component	Component Name	Use/Function	Operation/Condition/Compatibility
Q1	2SD863 (E, F)	Bias oscillation	Oscillation for erase head, and for HX excitation
Q2	2SD863 (E, F)	Bias oscillation control	This component turns ON in the REC mode.
IC1	μPC1297CA	HX-PRO IC	

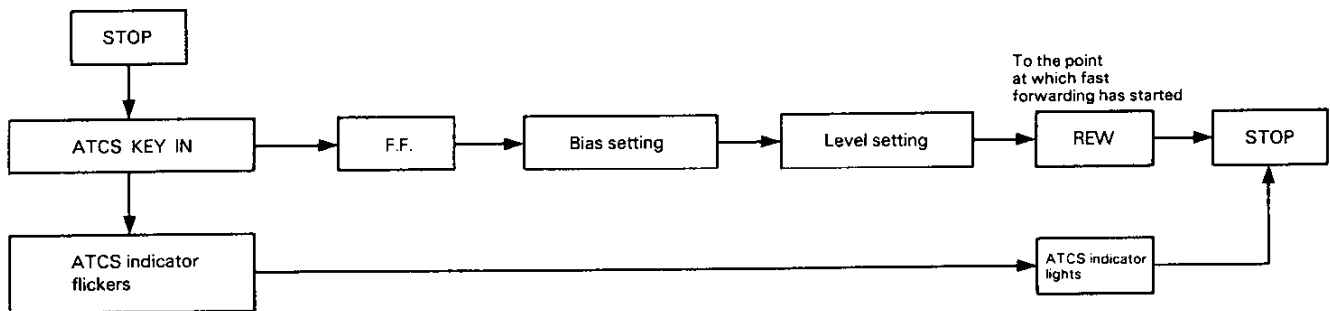
CIRCUIT DESCRIPTION

ATCS (Automatic Tape Calibration System)

For recording on a tape, the recording sensitivity and frequency response depending upon the tape type have been deviated from the reference values because of the irregularity in property between individual tapes except our reference tape. Conventionally, to correct this deviation, the manually operated REC CAL (correcting the recording sensitivity) and the manually operated BIAS CAL (correcting the frequency response) are provided to neutralize the irregularity in property between individual tapes. The ATCS feature provided to this deck automatically performs the REC CAL and BIAS CAL which are manually operated conventionally in order to neutralize the irregularity in property between individual tapes.

In the ATCS operation, when the ATCS key is pressed after a recordable tape is loaded, the bias and level settings are performed after a fast forwarding of 1 sec. Upon termination of the settings, the tape is rewound to the point at which its fast forwarding has started or to the start point of the tape.

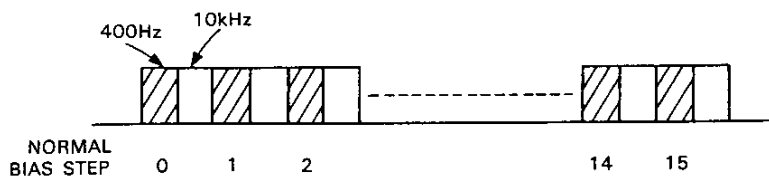
- When it is necessary to stop the ATCS operation on its way, press the STOP key.
- After termination of the ATCS operation, when it is necessary to cancel the ATCS settings for the purpose of changing the tape type, press the ATCS key once again.



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BIAS SETTING

- (1) Record 400 Hz and 10 kHz signals varying steppedly the bias from max. to min. at intervals of 100 msec. (Normal tape 0—15, CrO₂ tape 1—14, metal tape 2—13)



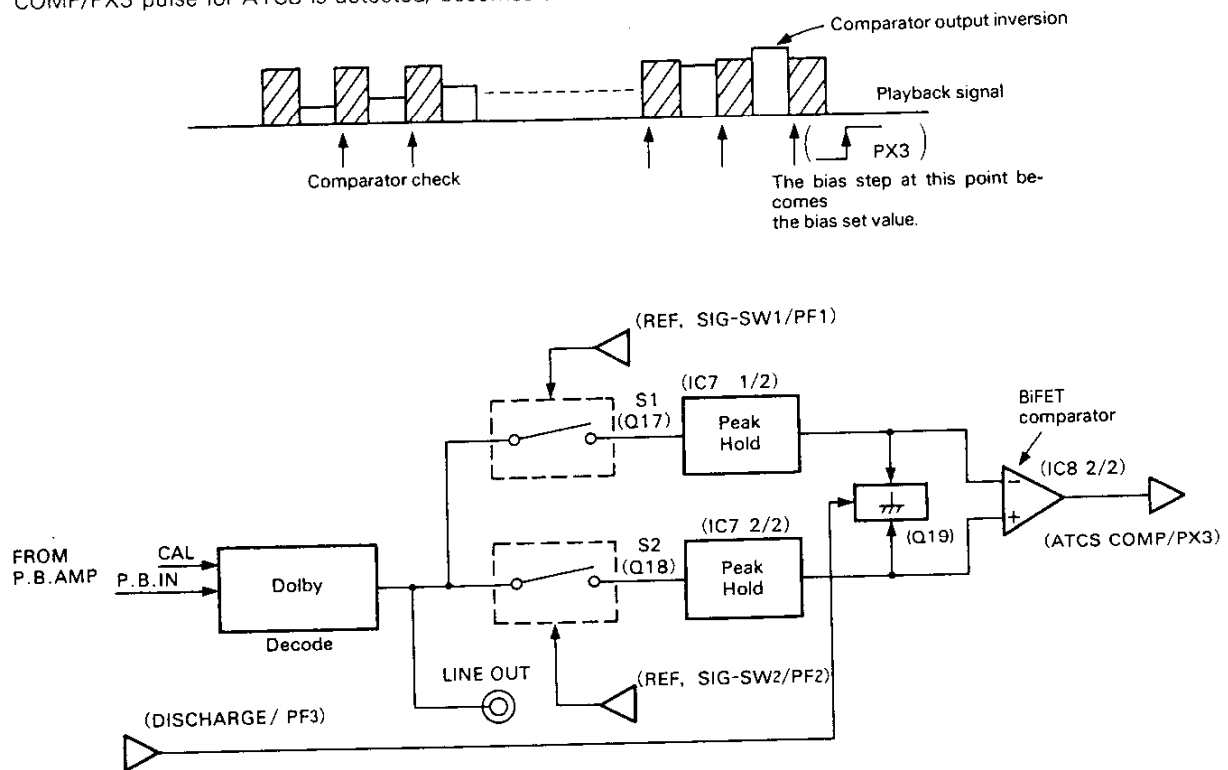
CIRCUIT DESCRIPTION

- (2) After detecting the recording start point, playback is entered. Then, the playback signal is held and check is made for the inversion of the comparator output. The bias step value at the point of time that the comparator output is inverted (that is to say the rise of the COMP/PX3 pulse for ATCS is detected) becomes the

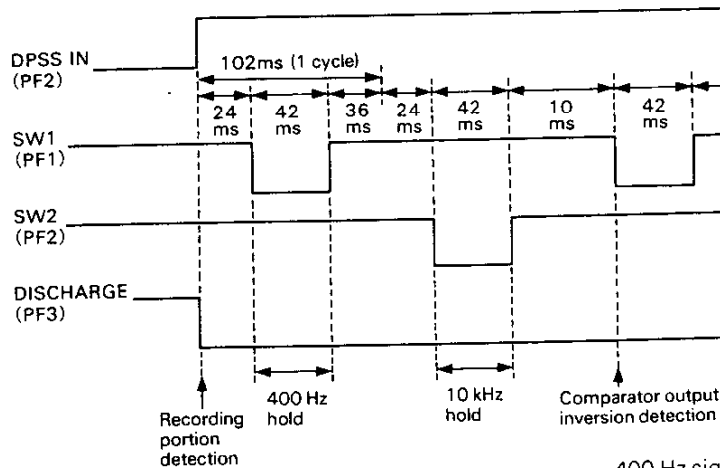
tape bias point.

(Comparator inversion ... 400 Hz playback signal < 10 kHz playback signal)

(Unless the comparator output is inverted until the bias min. is reached, the bias setting is not good.)



Bias comparator output inversion detection:



400 Hz signal hold ... S1 ON/S2 OFF

The hold process is applied for 40 msec that is seen as the stable period out of 100 msec of playback signal.

20 msec — (40 msec) — 40 msec

10 kHz signal hold ... S1 OFF/S2 ON

The timing to hold is the same as with 400 Hz.

CIRCUIT DESCRIPTION

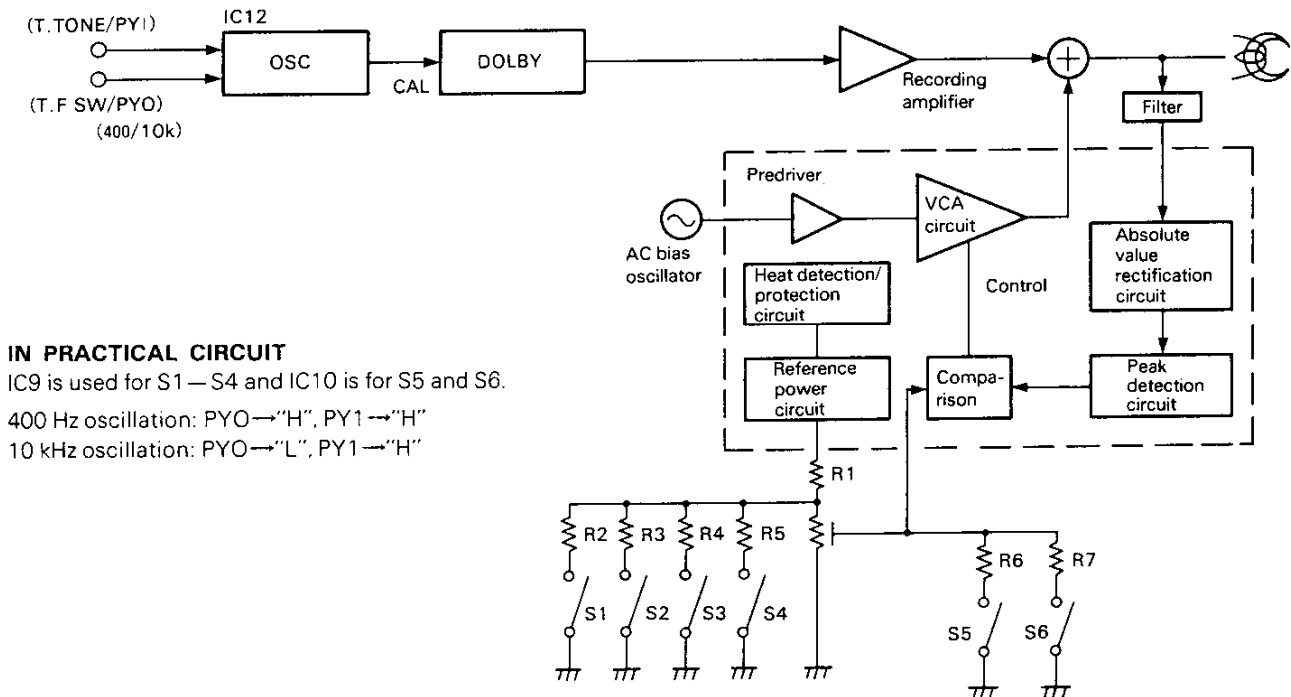
BIAS ATTENUATOR CIRCUIT

The bias attenuator circuit makes use of the Dolby HX PRO system for its aiming of attenuation. By dividing the reference voltage from the reference power circuit, the respective bias values of normal, CrO₂ and metal tapes are set through R6, R7, S5 and S6.

The set bias value of each tape can be varied in steps of

0.3 dB by the bias attenuator circuit consisting of R1—R5 and S1—S4. The standard value (the initial value) is of 7H with S1—S3=ON and S4=OFF.

(Of the microprocessor output port, it is of 7H with BIAS#1—#3="H" and BIAS#4="L".)



IN PRACTICAL CIRCUIT

IC9 is used for S1—S4 and IC10 is for S5 and S6.

400 Hz oscillation: PYO→"H", PY1→"H"

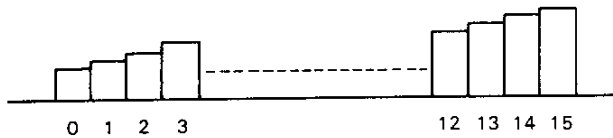
10 kHz oscillation: PYO→"L", PY1→"H"

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CIRCUIT DESCRIPTION

LEVEL SETTING

- (1) Record the 400 Hz signal varying steppedly the level from min. to max. at intervals of 100 msec. (0—15, 16 steps)



Transistors Q3—Q10 are ON/OFF controlled by pins LEVEL#1—#4 of the microprocessor port to vary the 400 Hz signal level.

For the initial value, Q3 and Q4 alone are turned ON to set the level depending upon the ratio of R18 (3.3 k) and R20 (9.1 k).

- (2) After termination of recording, the point of tape at which recording has started is detected, after which the STOP mode is entered.

- (3) Level reference signal hold

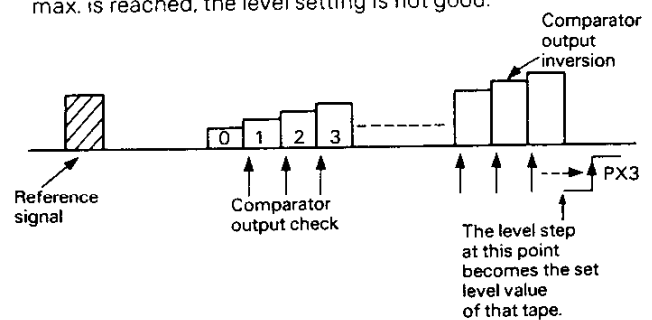
S1 ON/S2 OFF, R/P (PD2) → "H" (REC MODE) *Note
T.F SW (PYO) → "H", T.TONE (PY1) → "H" (ON)

The oscillation stable time is 700 msec, after which the reference signal is held at the S1 side for 100 msec.

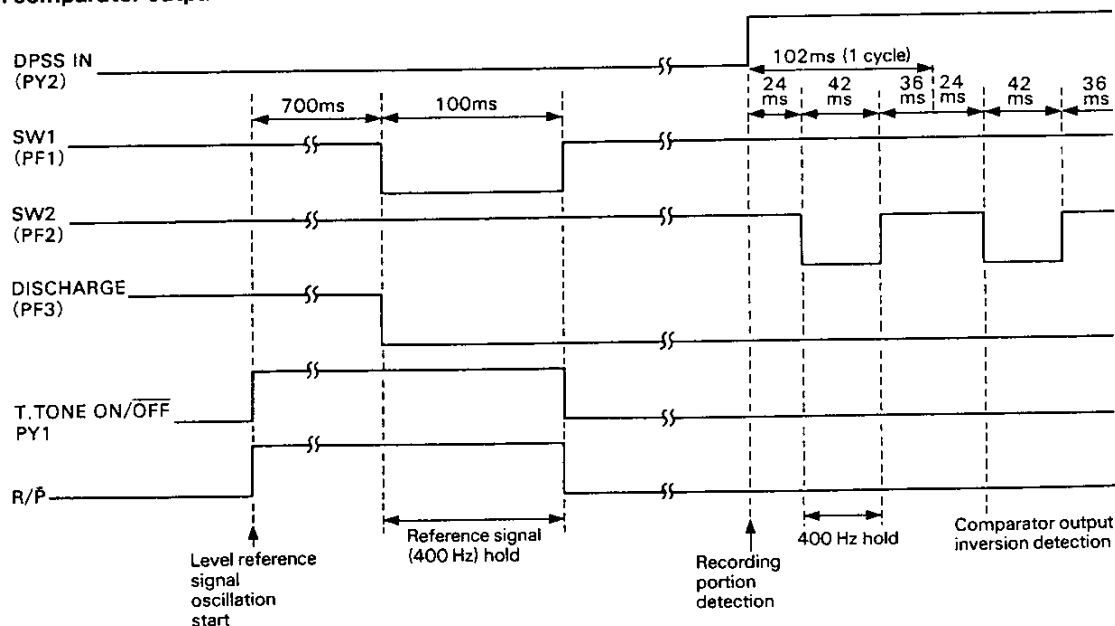
- (4) After the termination of the reference signal hold process, the playback (PB) mode is entered. Then, after detecting the beginning of the signal, the signal is held and check is made as to the inversion of the comparator output. The level step value at the point of time that the comparator output is inverted (that is to say the rise of the PX3 pulse is detected) becomes the level point of that tape.

(Comparator output inversion... level reference signal < 400 Hz playback signal)

Unless the comparator output is inverted until the level max. is reached, the level setting is not good.



Level comparator output inversion detection:



- 400 Hz signal hold... S1 OFF/S2 ON, R/P → "L"
The hold process is applied for 40 msec that is seen as the stable period out of 100 msec of playback signal.
- When the bias and level settings are either not good, the ATCS operation is taken to fail and they are set to

the standard value.

Standard value bias/level "7"

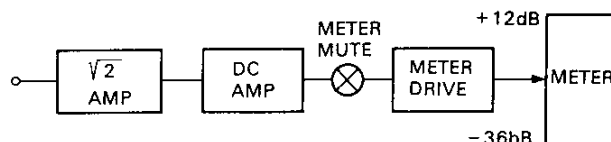
When either is good, the given values are taken as the set values.

CIRCUIT DESCRIPTION

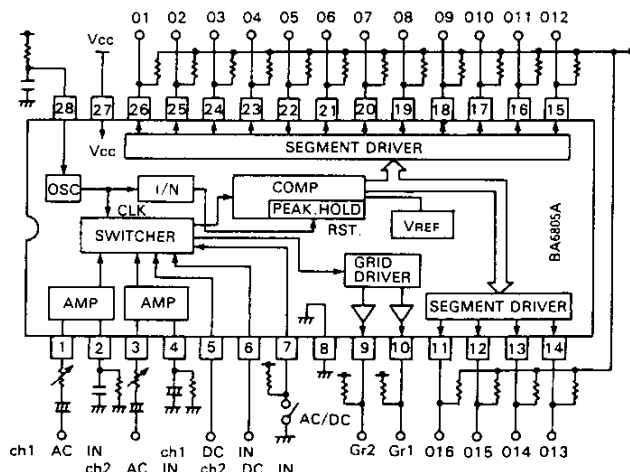
FLUORESCENT DISPLAY IC (BA6805A)

A conventional meter drive circuit is composed of a 1/2 power compression amplifier (BA6138) + a DC amplifier (NJM4558) + a meter IC (AN6870N).

The meter drive circuit of this time is unitized into a one-chip IC, conventionally being of 3 chips.



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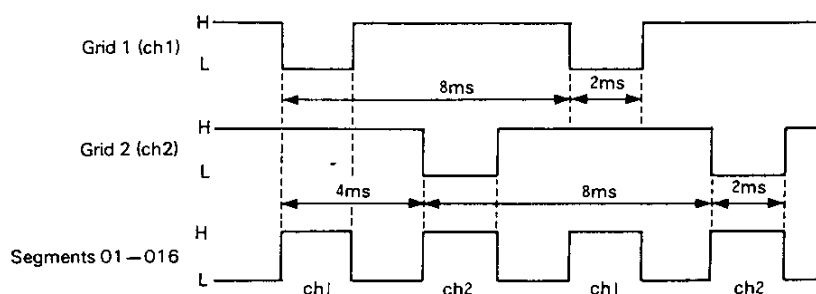
*VR of more than 3k

This IC features:

- DIP 28-pin, 16-point Lch/Rch display in dynamic drive system
- Selectable between AC and DC inputs by the H/L operation of 7 pins
- Peak hold function (2 sec) of 12 high-order points for AC input
- Built-in 1/2-power compression amplifier (For AC input)

Outputs grid 1 and grid 2 (pins 9 and 10), of NPN open collector, can be connected to the grids through PNP transistor buffers. Outputs segments 01—016 (pins 11—26), of PNP open collector, can be directly connected to the segments.

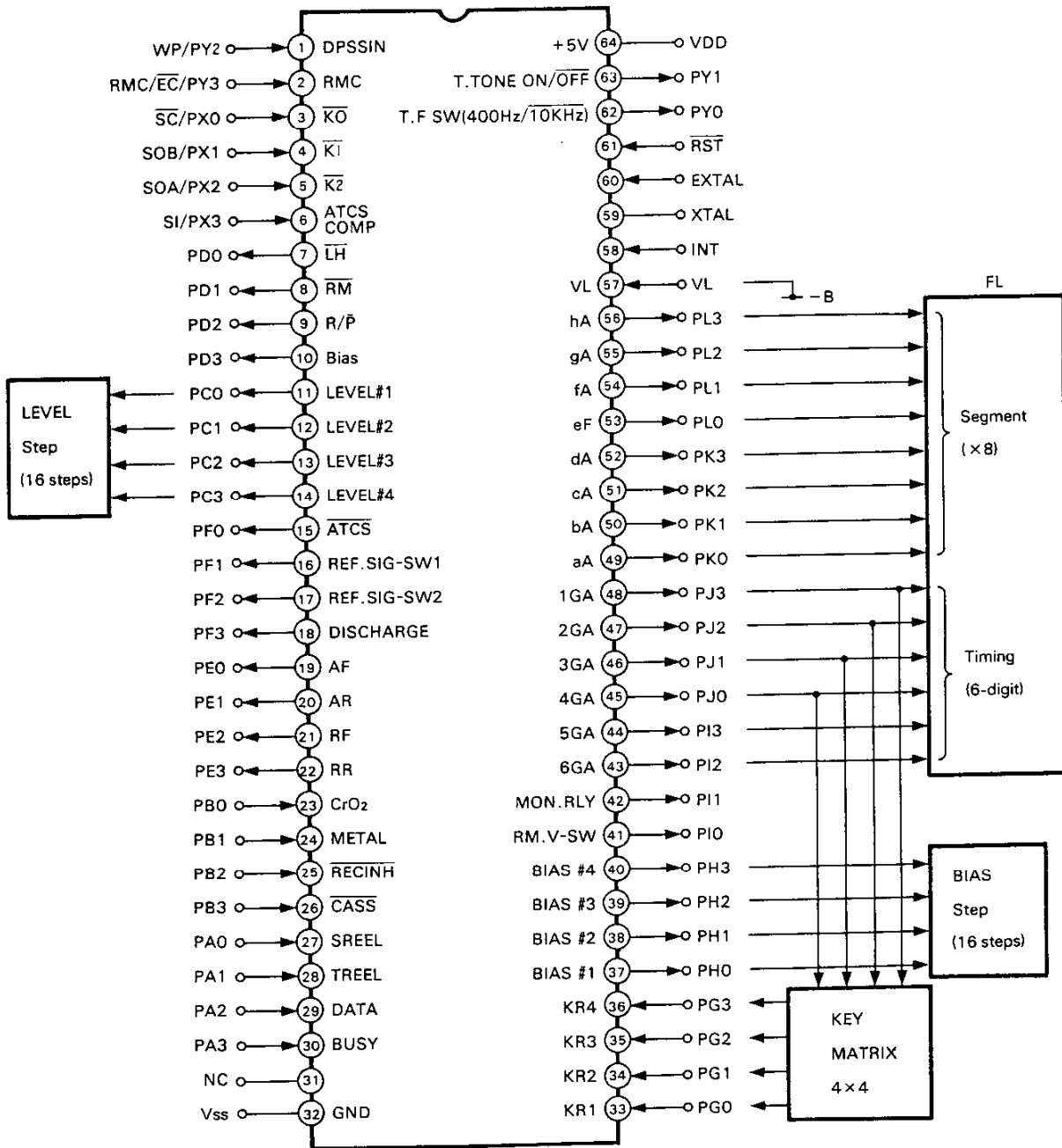
The following is the timing chart of grid and segment outputs.



CIRCUIT DESCRIPTION

MICROPROCESSOR (CXP5096-003S)

Port layout



CIRCUIT DESCRIPTION

Pin Functions

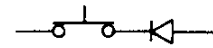
Pin. No.	Pin Name	Function	I/O	Pin No.	Pin Name	Function	I/O
1	PY2/WP	DPSSIN: music scan no-recording detection input "L"—no recording, "H"—recording	I	64	V _{DD}	5V	
2	PY3/RMC/EC	Remote control input pin	I	63	PY1	T.TONE ON/OFF: ATCS reference signal oscillation, "L"—stop, "H"—oscillate	O
3	PX0/SC	K0	I	62	PY0	T.F SW (100/10K): ATCS reference signal selection, "L"—10 kHz, "H"—400 Hz	O
4	PX1/SOB	K1	I	61	RST	Reset pin	I
5	PX2/SOA	K2	I	60	EXTAL		I
6	PX3/SI	ATCS COMP: ATCS comparator input	I	59	XTAL		O
7	PD0	LM: Line Mute "L"—ON "H"—OFF	O	58	INT	Serial communication start detection data input	I
8	PD1	RM: Rec Mute "L"—ON "H"—OFF	O	57	VL	High-voltage port pull-down resistance power supply	
9	PD2	R/P: REC/PLAY selection SW	O	56	PL3	(hA)	O
10	PD3	Bias: Recording bias control "H"—ON "L"—OFF	O	55	PL2	(gA)	O
11	PC0	LEVEL #1	O	54	PL1	(fA)	O
12	PC1	LEVEL #2	O	53	PL0	Display segment outputs	O
13	PC2	LEVEL #3	O	52	PK3	(8 segments x 6 digits)	O
14	PC3	LEVEL #4	O	51	PK2	(cA)	O
15	PF0	ATCS: "L" when in ATCS operation	O	50	PK1	(bA)	O
16	PF1	REF. SIG-SW1: ATCS level playback detection/selection SW. "L"—input cutoff, "H"—input valid	O	49	PK0	(aA)	O
17	PF2	REF. SIG-SW2: ATCS playback signal selection output SW. "L"—input cutoff, "H"—input valid	O	48	PJ3	Oxon OX9 4QY Tel: 01844-351694 Fax: 01844-352554 Email: enquiries@mauritron.co.uk (1G)	O
18	PF3	DISCHARGE: ATCS detection signal discharge output, "L"—OFF, "H"—discharge	O	47	PJ2	Key scan timing outputs	O
19	PE0	AF: Assist motor FWD ON, "L"—OFF, "H"—ON	O	46	PJ1	Display timing outputs	O
20	PE1	NR: Assist motor RVS ON, "L"—OFF, "H"—ON	O	45	PJ0	(8 segments x 6 digits)	O
21	PE2	RF: Reel motor FWD ON, "L"—OFF, "H"—ON	O	44	PI3	(5G)	O
22	PE3	RR: Reel motor RVS ON, "L"—OFF, "H"—ON	O	43	PI2	(6G)	O
23	PB0	CrO ₂	I	42	PI1	MONI RLY: 3-head TAPE/SOURCE switch, "L"—tape, "H"—source	O
24	PB1	METAL	I	41	PI0	RM.V SW: Reel motor voltage selection, "L"—FF/REW, "H"—PB/REC	O
25	PB2	RECINH: Broken hub detection input, "L"—broken hub	I	40	PH3	BIAS #4	O
26	PB3	CASSETTE: Cassette existence/non-existence discrimination input, "L"—cassette existence	I	39	PH2	BIAS #3	O
27	PA0/AD0	SREEL: Supply side reel pulse input	I	38	PH1	BIAS #2	O
28	PA1/AD1	TREEL: Takeup side reel pulse input	I	37	PH0	BIAS #1	O
29	PA2/AD2	DATA: Serial communication data input	I	36	PG3/AD7	(16 steps)	O
30	PA3/AD3	BUSY: Serial communication control input	I	35	PG2/AD6	Key matrix inputs	I
31	NC			34	PG1/AD5	(KR3)	I
32	V _{SS}	GND		33	PG0/AD4	(KR2)	I
						(KR1)	I

CIRCUIT DESCRIPTION

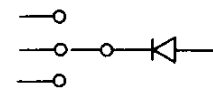
Key Matrix

	4G (PJ0)	3G (PJ1)	2G (PJ2)	1G (PJ3)
KR4 (PG3)	Counter ⁽¹⁾ Reset	FF ⁽¹⁾	REC/A.R.M. ⁽¹⁾	Timer ⁽²⁾ REC
KR3 (PG2)	Index ⁽¹⁾ Scan	REW ⁽¹⁾	PAUSE ⁽¹⁾	Timer ⁽²⁾ PLAY
KR2 (PG1)	Blank ⁽¹⁾ Search	PLAY ⁽¹⁾	TEST 1 ⁽⁴⁾	TAPE ⁽²⁾ MONITOR
KR1 (PG0)	ATCS ⁽¹⁾	STOP ⁽¹⁾	TEST 2 ⁽⁴⁾	2-/3-head selection ⁽³⁾

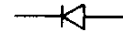
Notes: (1) Tact SW
(2) Slide SW



Timer REC
OFF
Timer PLAY



(3) Diode existence/non-existence. Diode does not exist for the 2-head type (when D10 is not given).



(4) TP3-TP5 shorted: TEST 1
TP3-TP4 shorted: TEST 2

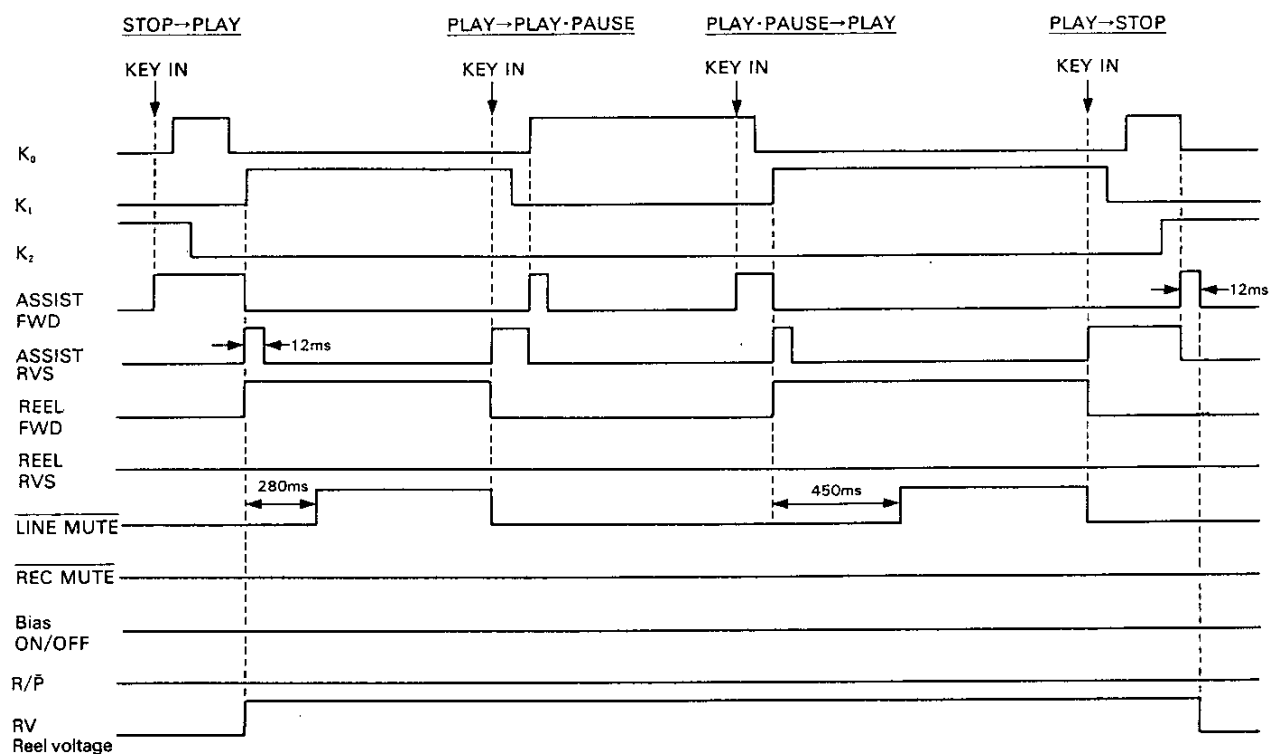
Mechanism Switches

	K ₀	K ₁	K ₂	Reel motor
STOP	ON	ON	OFF	OFF
PLAY	ON	OFF	ON	Normal rotation
PAUSE	OFF	ON	ON	OFF
CUE/ REVIEW	OFF	ON	ON	Normal/reverse rotation
FF/REW	ON	OFF	OFF	Normal/reverse rotation

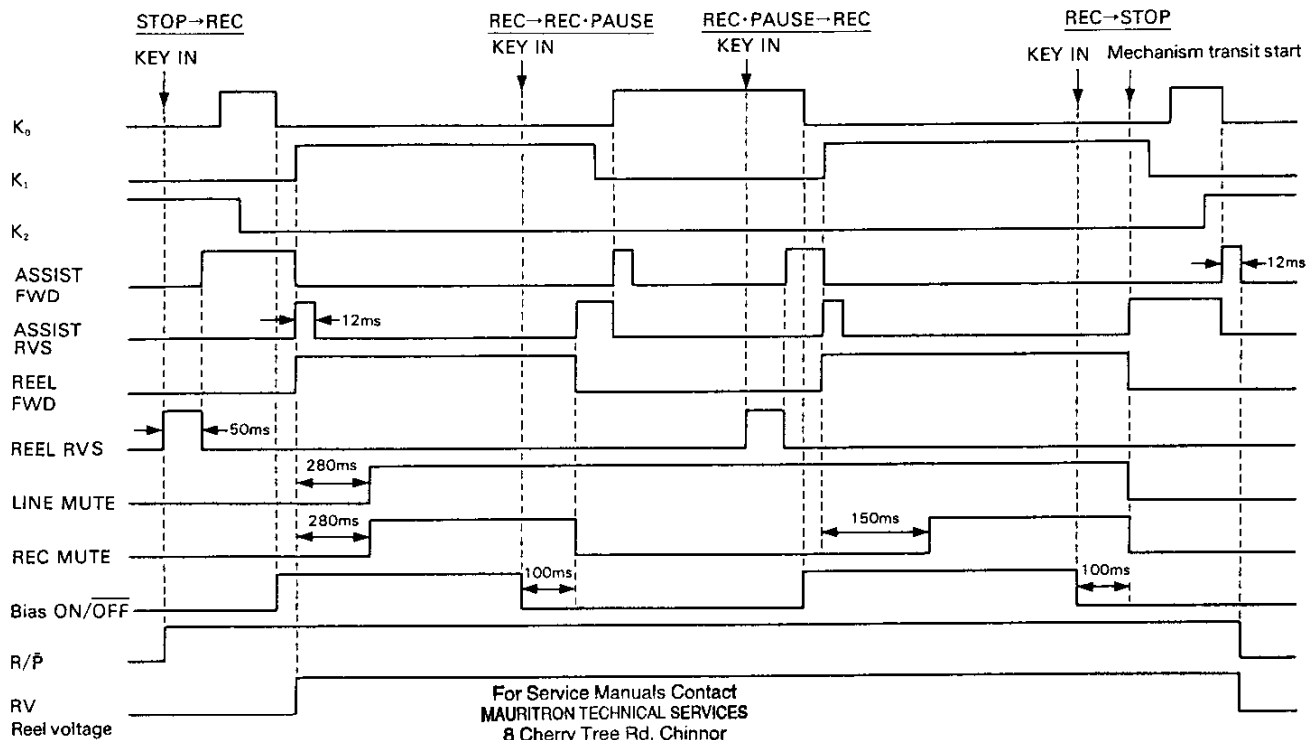
Outline of operational timing of mechanism switches K₀, K₁ and K₂ in respective modes (For more details, refer to the timing chart given below.)

	←	FF REW	STOP	→	PAUSE	↔	PLAY	→
K ₀	OFF	ON	ON	OFF	OFF	ON	ON	OFF
K ₁	OFF	OFF	ON	ON	ON	ON	OFF	OFF
K ₂	OFF	OFF	OFF	OFF	ON	ON	ON	ON

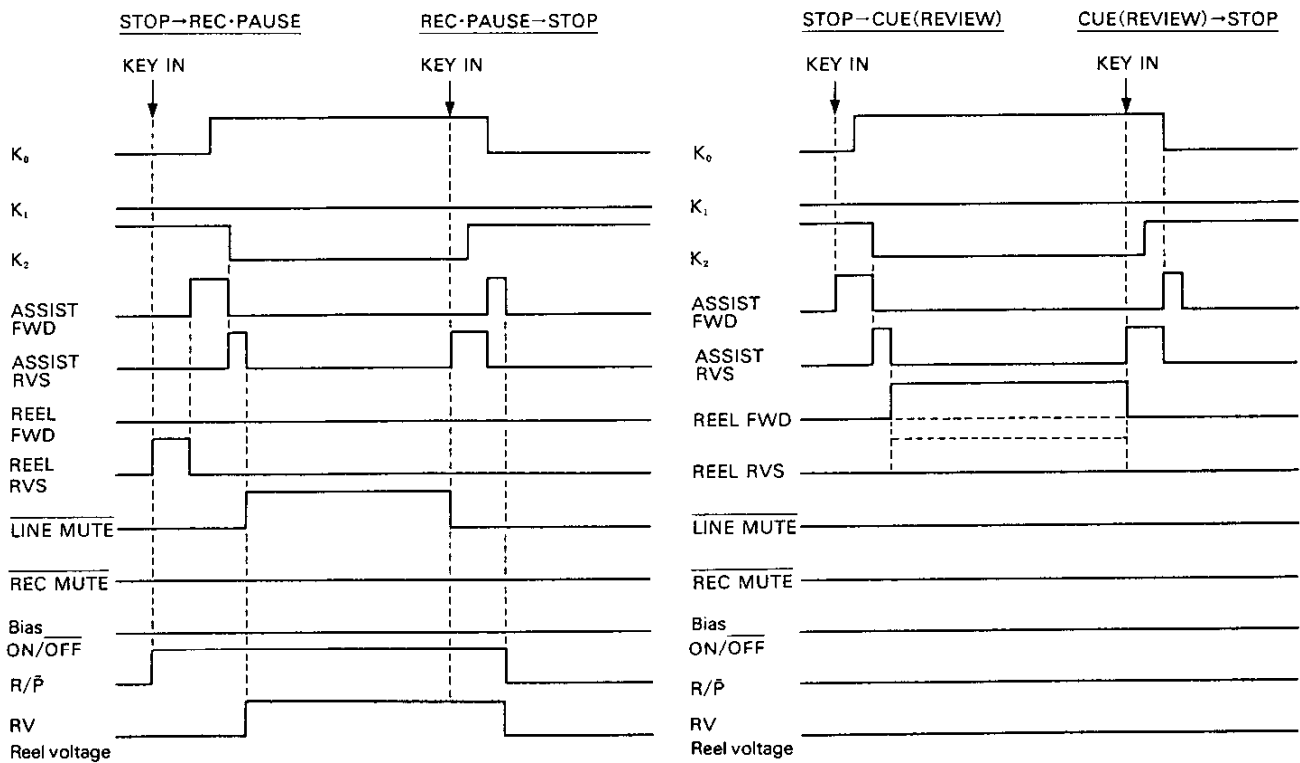
Mechanism Switch Timing Chart



CIRCUIT DESCRIPTION



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CIRCUIT DESCRIPTION

Test Mode:

1. TEST 1 (Shorted between TP3 and TP5)

- 1-1 At power ON, TIMER PLAY SW ON
→PLAY mode is engaged immediately.
- 1-2 TIMER REC SW ON
 - (1) Power ON→After recording of 15 sec, the tape is rewound to its point at which recording has started→STOP mode is engaged (inhibited with the hub broken).
 - (2) FF key ON→After recording of 3 sec, the tape is rewound to its point at which recording has started→PLAY mode is engaged. (Due to the repeat pressure of the FF key, a sequence of REC→REW→PLAY is performed.)
- 1-3 ATCS operation
 - ATCS key in→Bias varies in 16 steps (400 Hz and 10 kHz are reciprocally recorded in units of 100 msec)
 - Level varies in 16 steps (400 Hz is recorded in units of 100 msec)
 - Tape is rewound to its point at which recording has started
 - Playback starts.

2. TEST 2 (Assist motor operation inhibited)

(Shorted between TP3 and TP4)

- 2-1 At power ON, all display lights immediately.
→After key in, normal display is made.

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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	(A) MTT-114, TCC-153 10kHz, -10dB	(B)	PLAY	Azimuth adjustment screw	Maximum output.	(a)
II DC MOTOR							
(1)	TAPE SPEED	(A) MTT-111, TCC-110 3kHz, -4dB	(B)	PLAY	Trimming poten- tiometer in the DC motor	Adjust the tape speed so that a 3kHz signal is produced at the center of the tape.	(b)
III PC BOARD							
<1>	PLAYBACK LEVEL	MTT-150 400Hz	(B)	PLAY	VR3 (L) VR4 (R) (X87-103 B/2)	Output level: -1.2dBs	
		MTT-256 315Hz				Output level: -4.0dBs	
		MTT-256U, TCC-160 315Hz				Output level: 0 dBs	
<2>	BIAS CURRENT	(A) 1kHz, -30dBs 10kHz, -30dBs	(B)	Adjust REC VR (LEVEL, BALANCE) so that the REC monitor output becomes -24dBs at 1kHz, then record and reproduce signal of 1kHz and 10kHz in alternation.	VR1 (L) VR2 (R) (X87-127)	Adjust the bias current adjusting VR so that the playback level of the 10kHz signal is +0.5dB higher than that of the 1kHz signal when recording a 1kHz signal and a 10kHz signal alternately.	
<3>	RECORD LEVEL	(A) 1kHz, -30dBs	(B)	Record and reproduce a 1kHz signal under the conditions set in <2>	VR1 (L) VR2 (R) (X87-103 A/2)	Adjust the variable resistors so that a playback level of -24dBs is obtained.	
<4>	FL PEAK LEVEL METER	(A) 1kHz, -10dBs	—	REC PAUSE Adjust REC VR (LEVEL, BALANCE) so that the monitor output is -4dBs at 1kHz.	VR8 (X26-122)	Adjust to the same level as that to L-channel	

REGLAGE

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	(A) MTT-114, TCC-153 10kHz, -10dB	(B)	PLAY	Vis d'azimut	Sortie maximer.	(a)
II MOTEUR CC							
(1)	VITESSE DE DEFILEMENT	(A) MTT-111, TCC-110 3kHz, -4dB	(B)	PLAY	Résistance ajustable du moteur CC	Régler la vitesse de bande de façon qu'un signal de 3kHz soit produit au centre de la bande.	(b)
III PLAQUE IMPRIMEE							
<1>	NIVEAU DE LECTURE	MTT-150 400Hz	(B)	PLAY	VR3 (G) VR4 (D) (X87-103 B/2)	Niveau de sortie: -1.2dBs	
		MTT-256 315Hz				Niveau de sortie: -4.0dBs	
		MTT-256U, TCC-160 315Hz				Niveau de sortie: 0 dBs	
<2>	COURANT DE POLARISATION	(A) 1kHz, -30dBs 10kHz, -30dBs	(B)	Régler REC VR (LEVEL, BALANCE) de façon que la sortie de moniteur REC soit de -24dBs à 1kHz, puis enregistrer et reproduire des sig- naux de 1kHz et 10kHz en alternance.	VR1 (G) VR2 (D) (X87-127)	Ajuster le courant de polarisation en ajustant VR pour que le niveau de lecture du signal 10kHz soit de +0.5dB supérieur à celui du signal 1kHz lors de l'enregistrement d'un signal 1kHz et d'un signal de 10kHz alternativement.	
<3>	NIVEAU D'ENREGISTREMENT	(A) 1kHz, -30dBs	(B)	Enregistrer et reproduire un signal de 1kHz dans les conditions précisées en <2>.	VR1 (G) VR2 (D) (X87-103 A/2)	Ajuster les résistances variables de façon à obtenir un niveau de lecture de -24dBs.	
<4>	INDICATEUR DE NIVEAU DE CRETE A FL	(A) 1kHz, -10dBs	—	REC PAUSE Ajuster REC VR(LEV- EL, BALANCE) de façon à ce que la sortie moniteur soit de -4dBs à 1kHz.	VR8 (X26-122)	Ajuster sur le même niveau que le canal de gauche.	

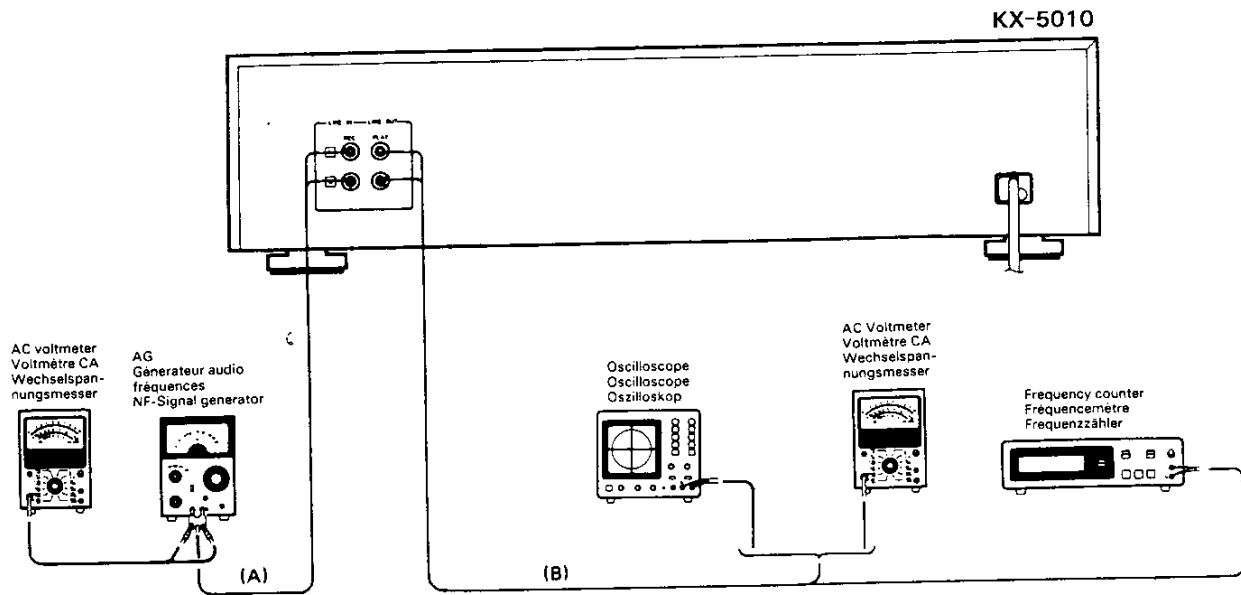
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ABGLEICH

NR.	GEGENSTAND	EINGANGS-EINSTELLUNG	AUSGANGS-EINSTELLUNG	KASSETTENGERT-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 Entmagnetisierungs-drossel.	
[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]	AZIMUT-EINSTELLUNG	(A) MTT-114, TCC-153 10kHz, -10dB	(B)	PLAY	Azimet-Einstellschraube	Maximale Ausgang.	(a)
II GLEICHSTROMMOTOR							
(1)	BANDGESCHWINDIGKEIT	(A) MTT-111, TCC-110 3kHz, -4dB	(B)	PLAY	Trimmer potentiometer am Gleichstrommotor	Die Bandgeschwindigkeit so justieren, daß ein 3kHz Signal auf der Mitte des Bands erzeugt wird.	(b)
III GEDRUCKTE SCHALTPLATTE							
<1>	WIEDERGABE-PEGEL	MTT-150 400kHz	(B)	PLAY	VR3 (L) VR4 (R) (X87-103 B/2)	Ausgangspegel: -1.2dBs	
		MTT-256 315kHz				Ausgangspegel: -4.0dBs	
		MTT-256U, TCC-160 315kHz				Ausgangspegel: 0 dBs	
<2>	LEERLAUFSTROM	(A) 1kHz, -30dBs 10kHz, -30dBs	(B)	REC VR (LEVEL, BALANCE) so justieren, daß der REC Monitorausgang -24dBs bei 1kHz wird, und danach abwechselnd Signal von 1kHz und 10kHz aufnehmen und wiedergeben.	VR1 (L) VR2 (R) (X87-127)	Den Vormagnetisierungsstrom-Regelwiderstand so einstellen, daß der Wiedergabepegel des 10kHz Signals um +0.5dB höher ist als der des 1kHz Signals, wenn ein 1kHz Signal und ein 10kHz Signal abwechselnd aufgenommen wurde.	
<3>	AUFNAHMEPEGEL	(A) 1kHz, -30dBs	(B)	Ein 1kHz Signal unter den in Punkt <2> beschriebenen Bedingungen aufnehmen und reproduzieren.	VR1 (L) VR2 (R) (X87-103 A/2)	Die Regelwiderstände so justieren, daß ein wiedergabepegel von -24dBs erzielt wird.	
<4>	FL SPITZEN-PEGELMESSER	(A) 1kHz, -10dBs	—	REC PAUSE REC VR(LEVEL, BALANCE) so einstellen, daß der Monitorausgang bei 1kHz, -4dBs ist.	VR8 (X26-122)	Auf den gleichen Pegel wie für den linken Kanal einstellen.	

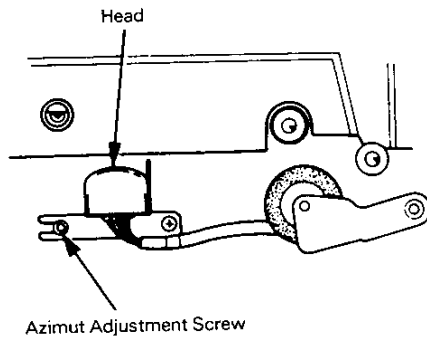
ADJUSTMENT/REGLAGE/ABGLEICH

SYSTEM CONNECTIONS

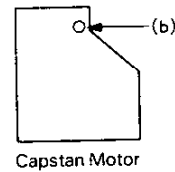


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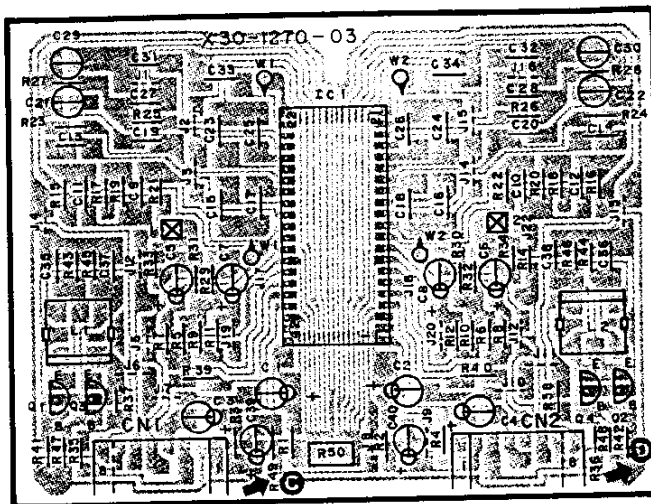
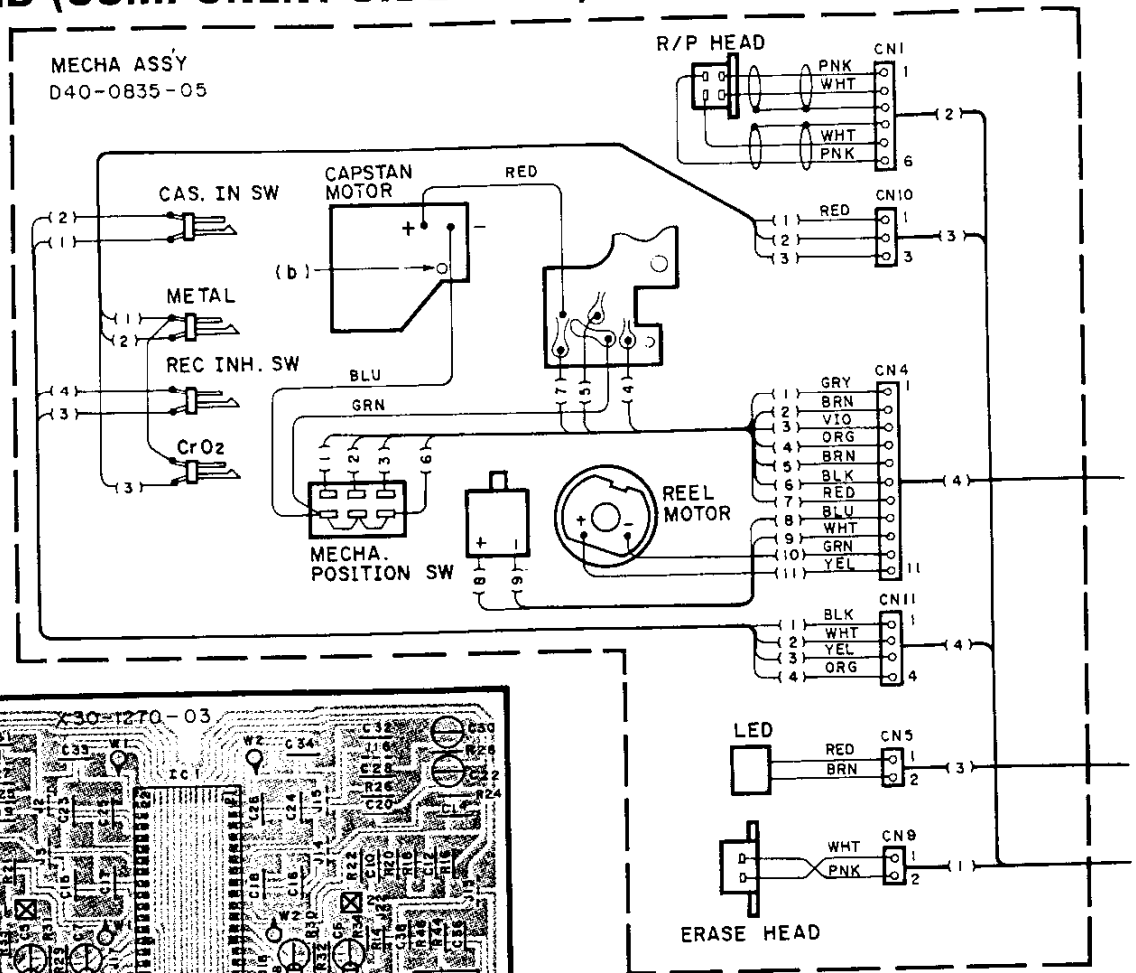
(a) Azimut Adjustment



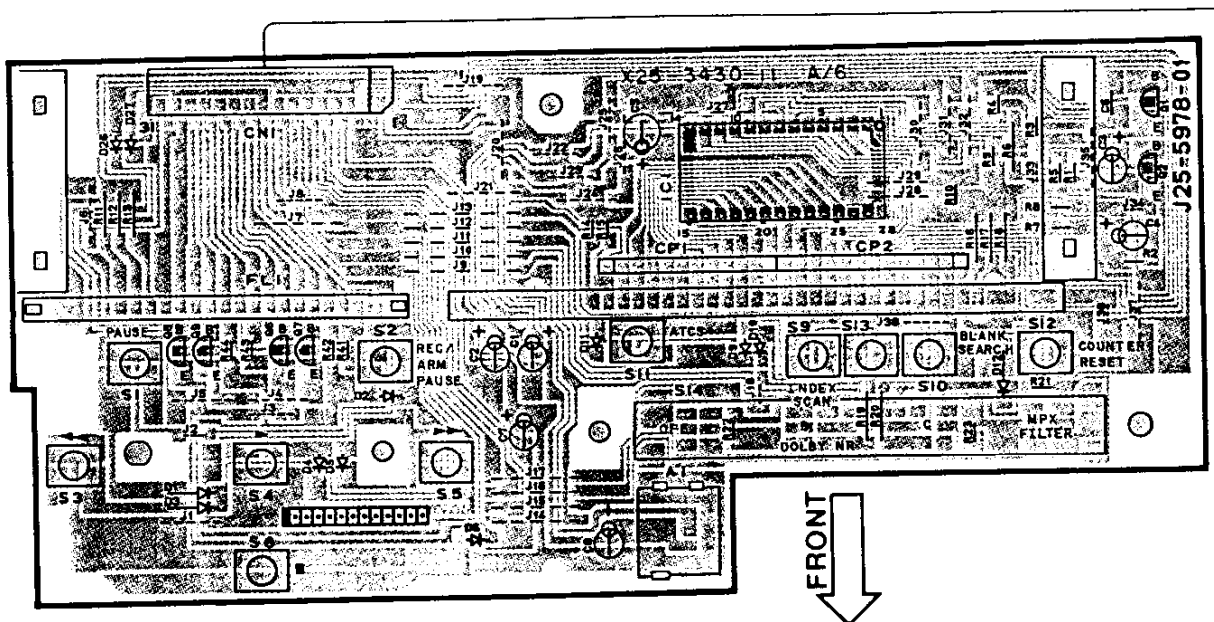
(b) Tape Speed Adjustment

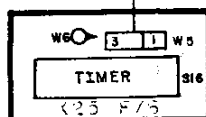
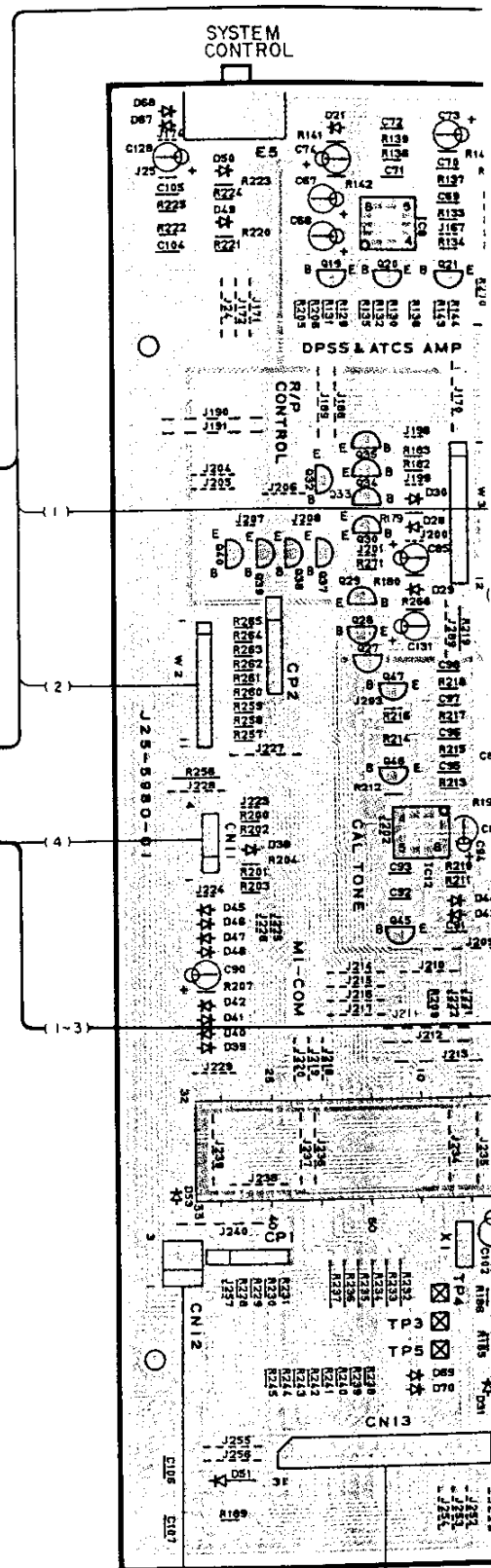
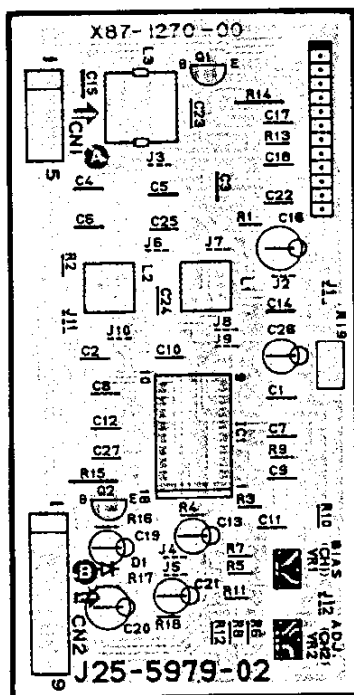
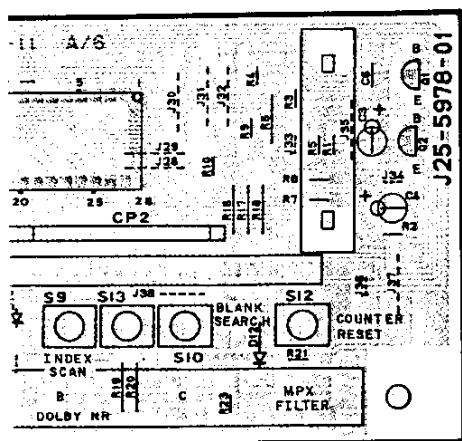


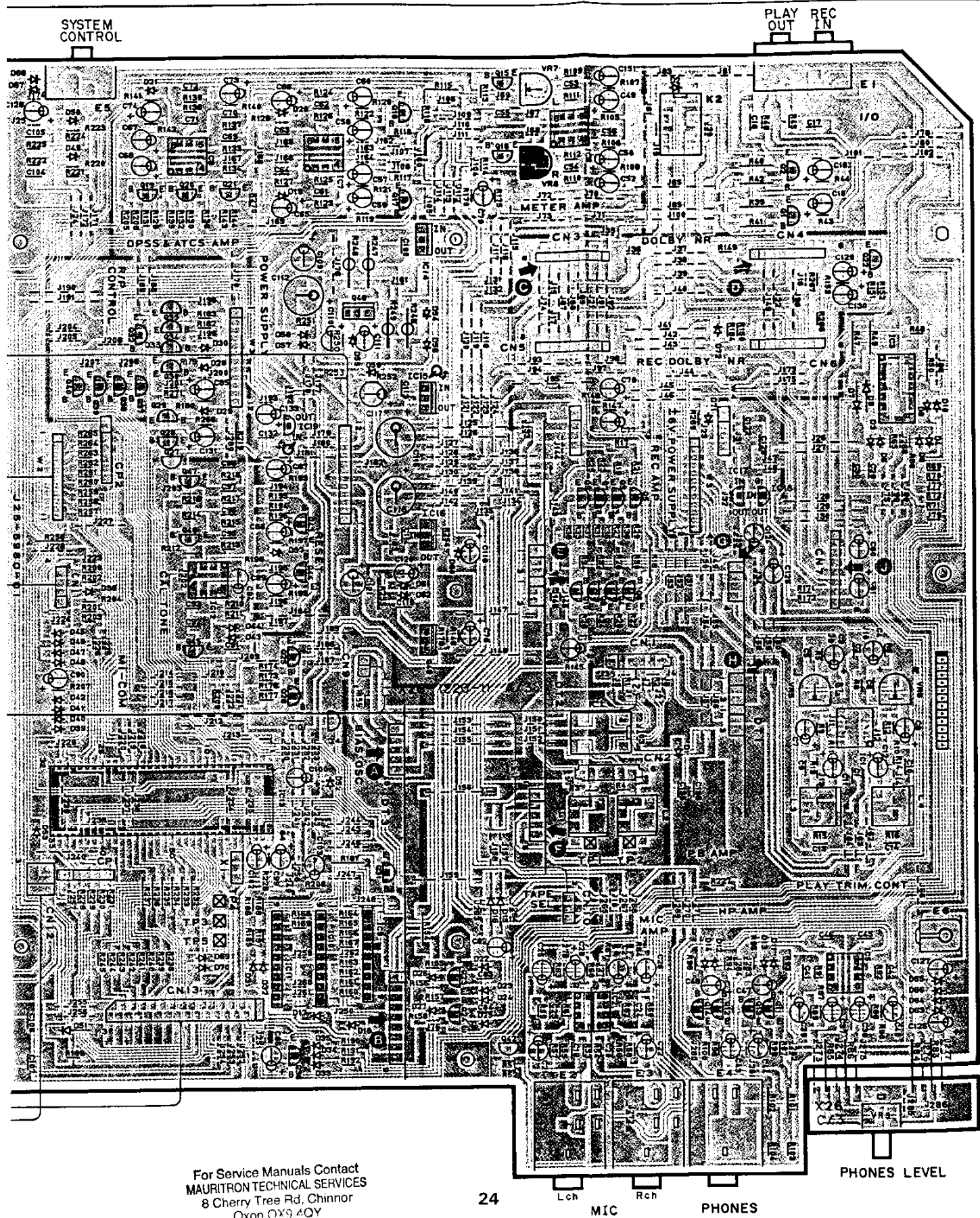
PC BOARD (COMPONENT SIDE VIEW)



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MAURITRON TECHNICAL SERVICES
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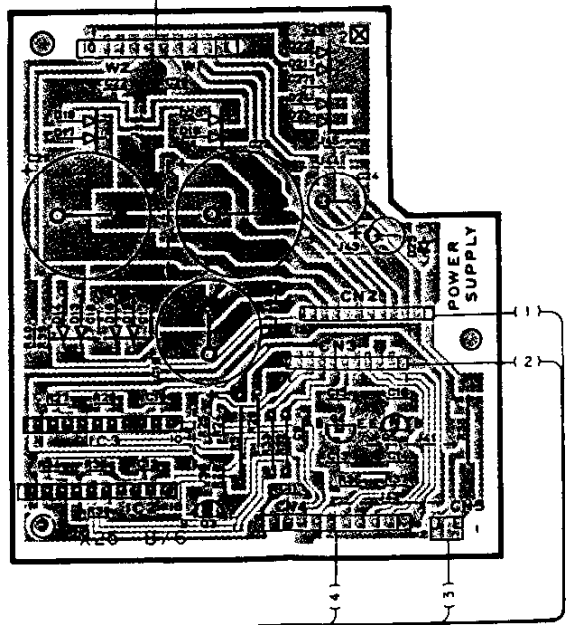
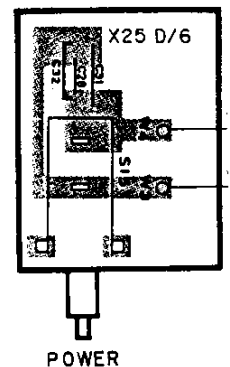
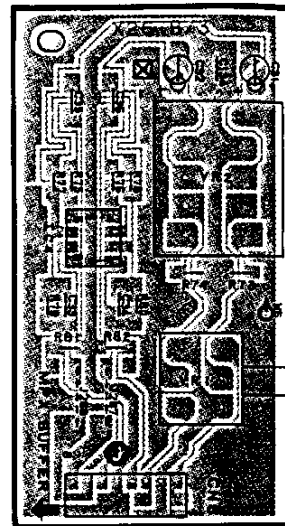
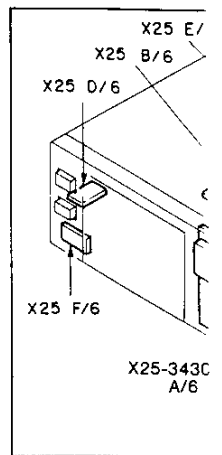
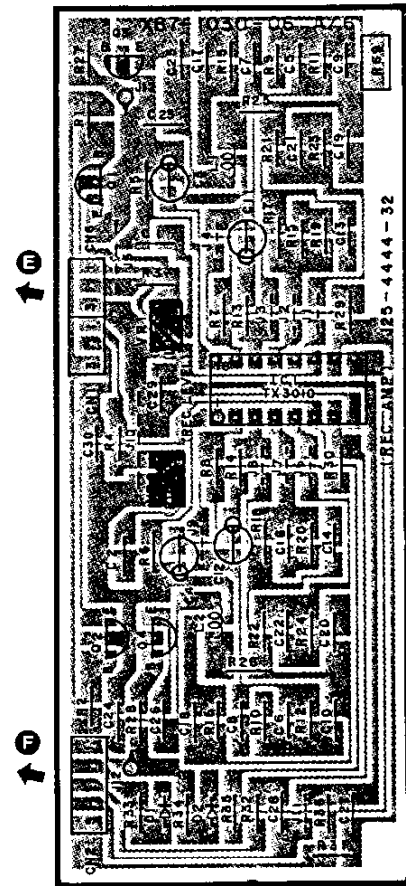
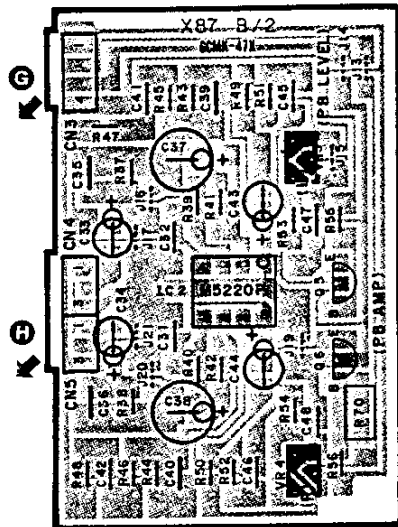
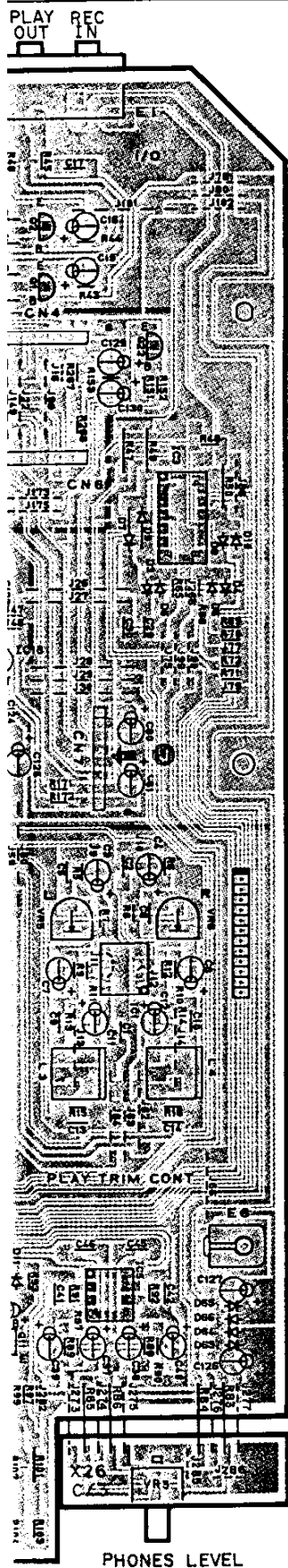
Lch

MIC

Rch

PHONES

PHONES LEVEL



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

X25-3430-00

Ref. No.	IC	Q	Address
		1	6E
		2	6E
		3	6O
		4	6P
		5	6P
		6	6B
		7	6B
		8	6B
		9	6B
1			6C
2			6O
3			6O
4			3O

Ref. No.	IC	Q	Address
		44	4I
		45	4H
		46	4H
		47	3H
		48	3I
		49	4J
1			5L
2			6K
3			3L
5			6L
6			1J
7			2I
8			2H
9			6I
10			6I
11			6I
12			4I
13			5H
14			2J
15			3J
16			4J
17			3K
18			3K
19			3I

X26-1220-00

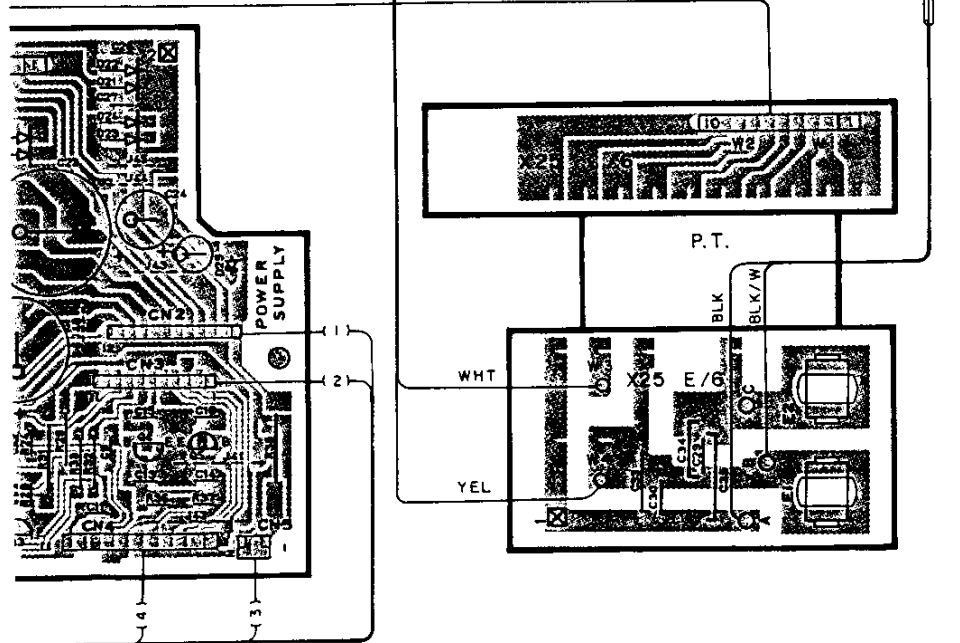
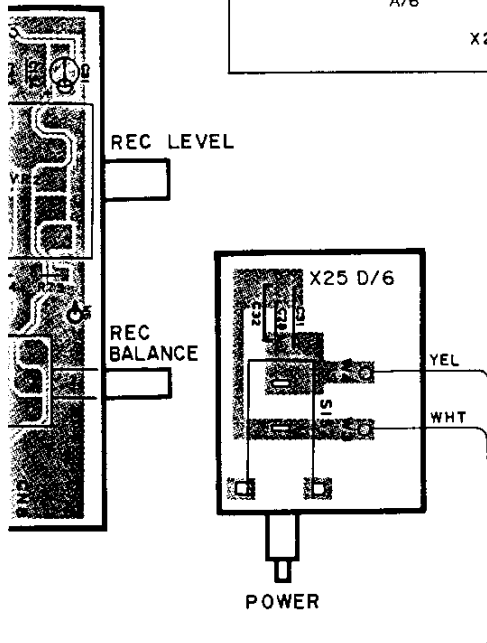
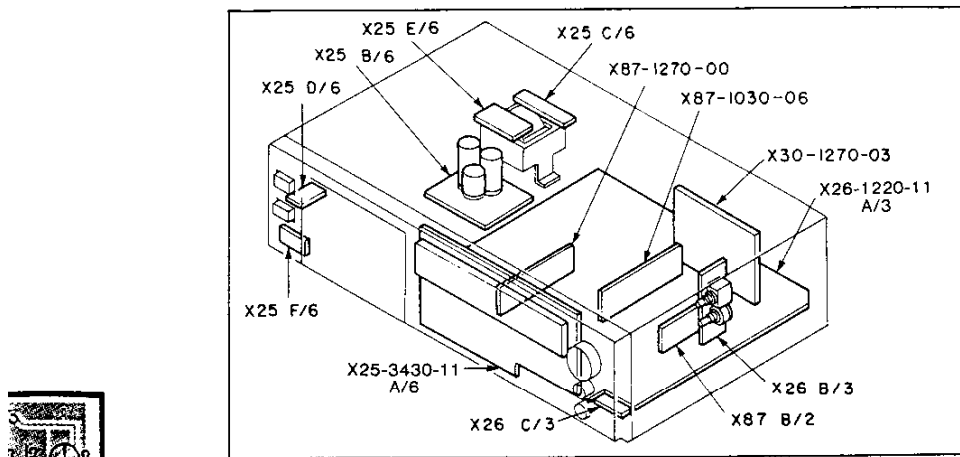
Ref. No.	IC	Q	Address
		1	2L
		2	2L
		3	3K
		4	4K
		5	3K
		6	4K
		7	3K
		8	4K
		9	3K
		10	4K
		11	6K
		12	6K
		13	6K
		14	6K
		15	1J
		16	2J
		17	2J
		18	1J
		19	2H
		20	2H
		21	2I
		22	2L
		23	6J
		24	6J
		25	4I
		26	4I
		27	3H
		28	3H
		29	3H
		30	3H
		31	5I
		32	3H
		33	3H
		34	3H
		35	3H
		36	6I
		37	3H
		38	3H
		39	3H
		40	3H
		41	6I
		42	6J
		43	4I

X30-1270-03

Ref. No.	IC	Q	Address
		1	5A
		2	5C
		3	5A
		4	5C
1			4B

X87-1270-03

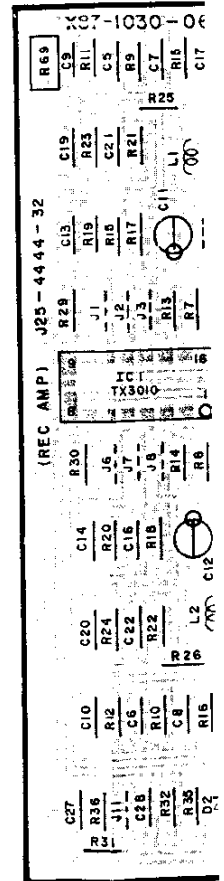
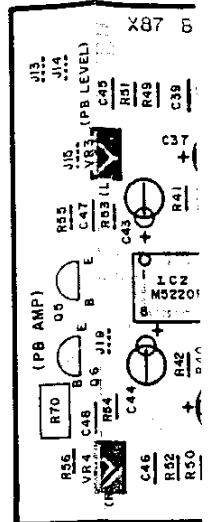
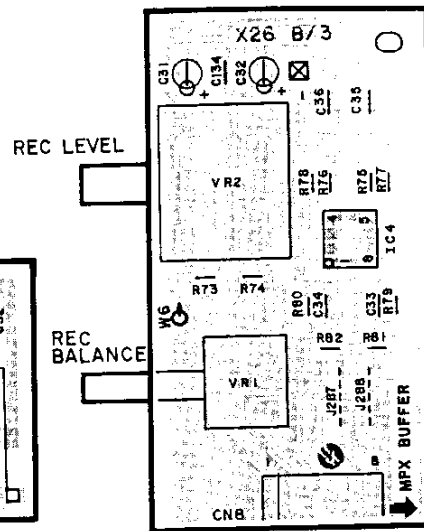
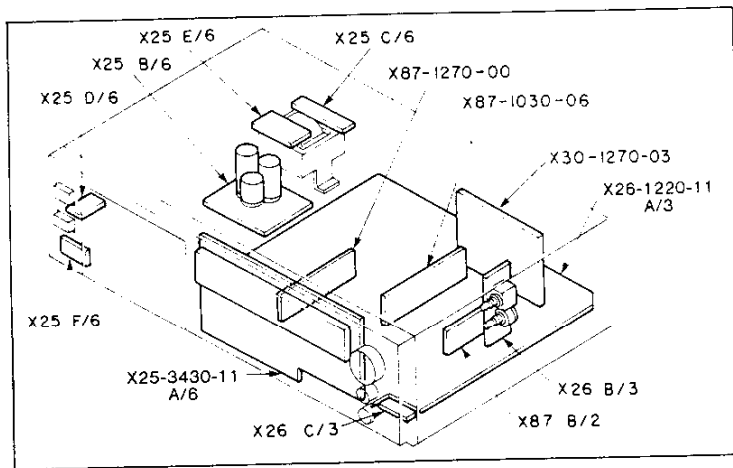
Ref. No.	IC	Q	Address
		1	4F
		2	6F
1			5F



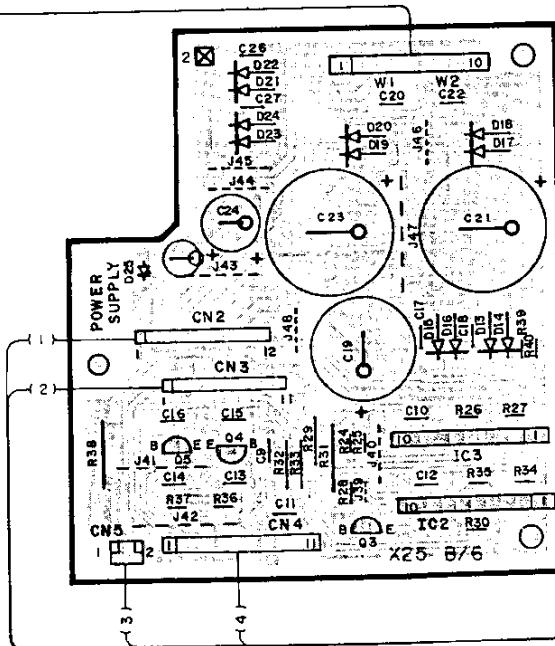
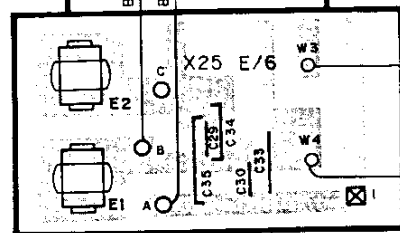
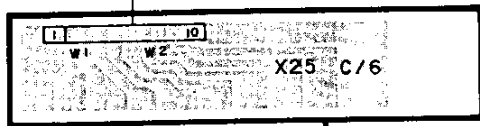
KX-5010 (K)

For the values of resistors and capacitors.

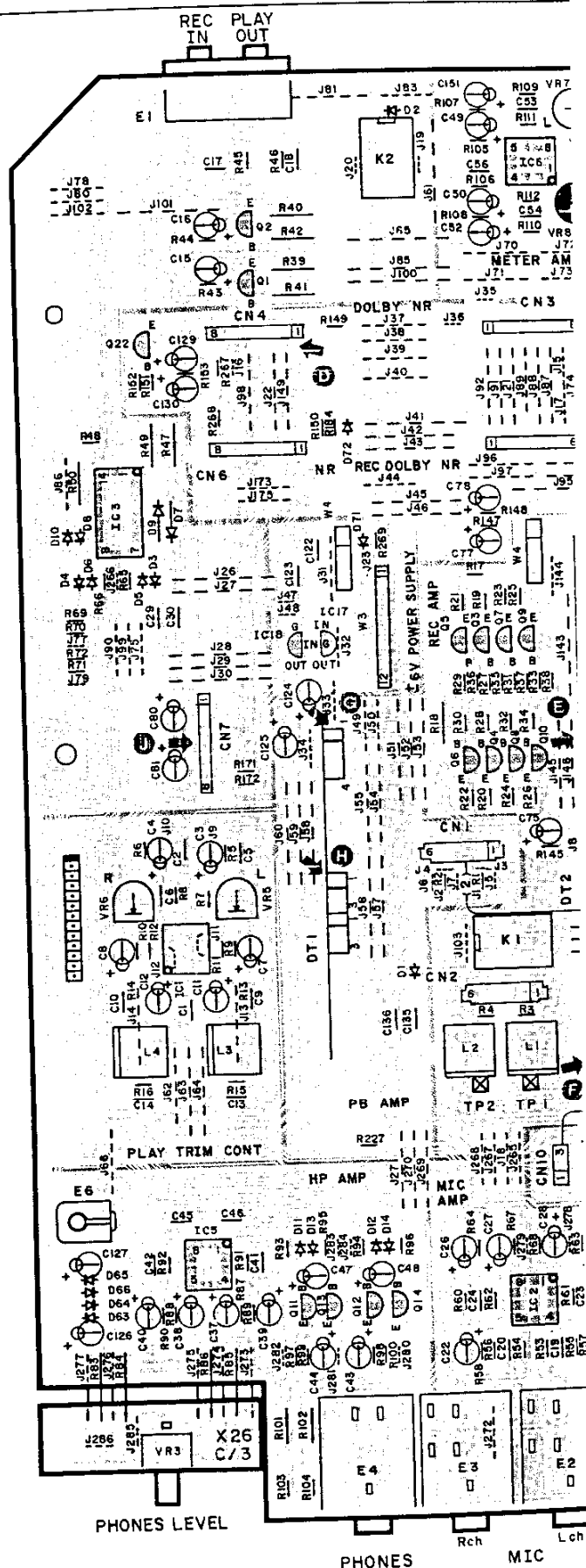
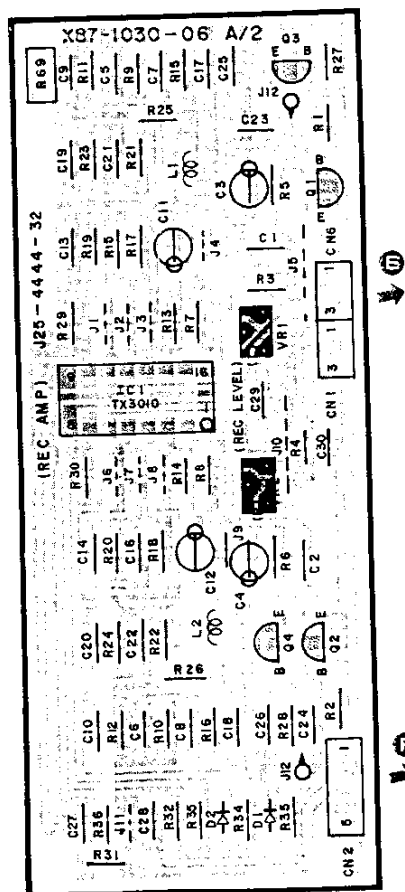
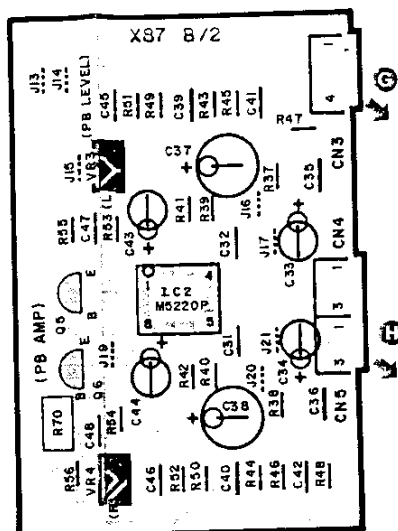
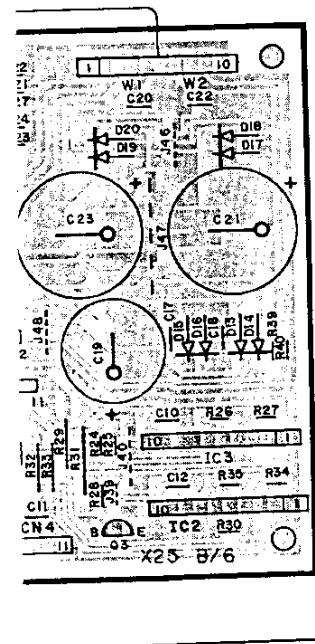
PC BOARD (FOIL SIDE VIEW)



AC120V
60Hz

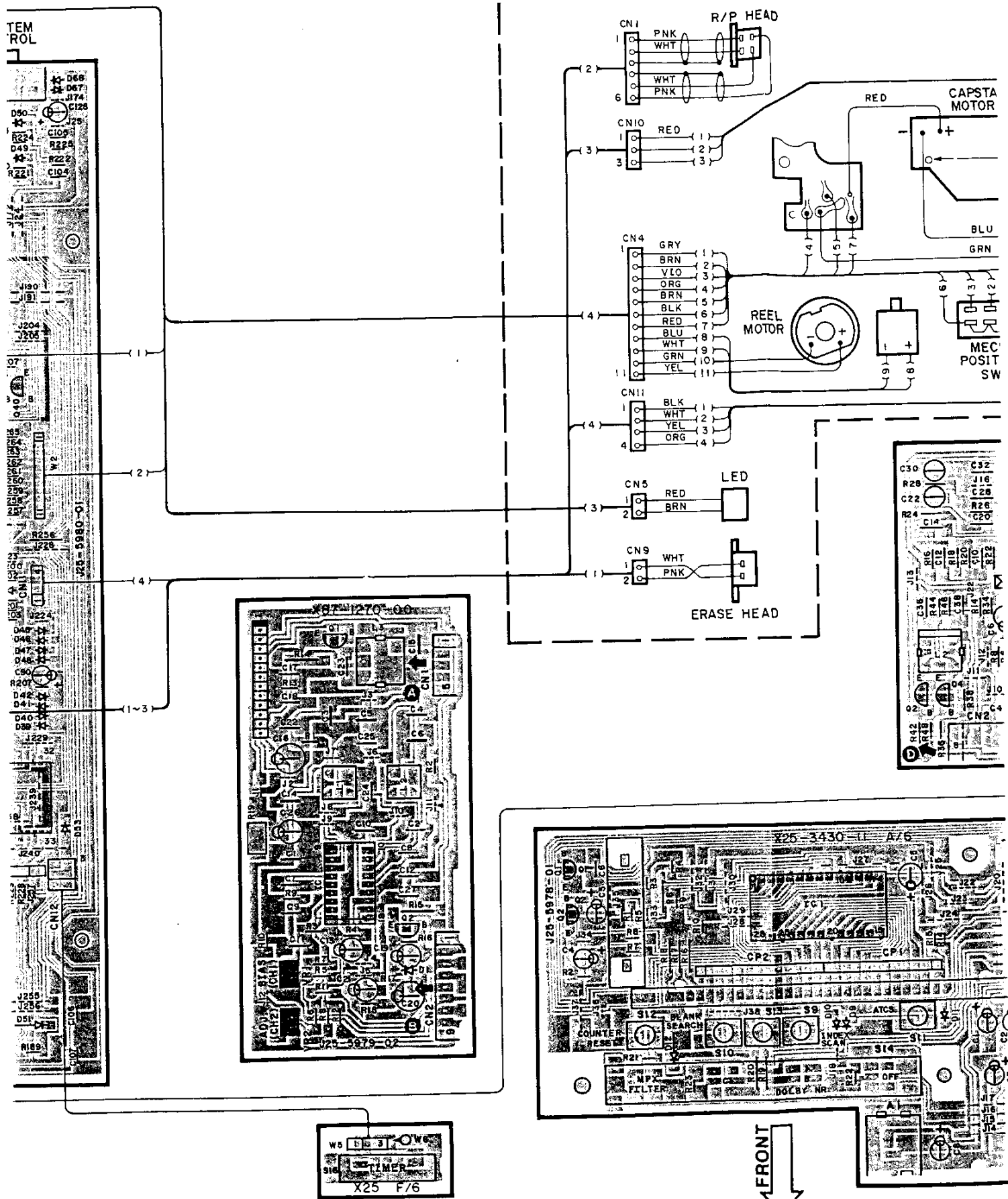


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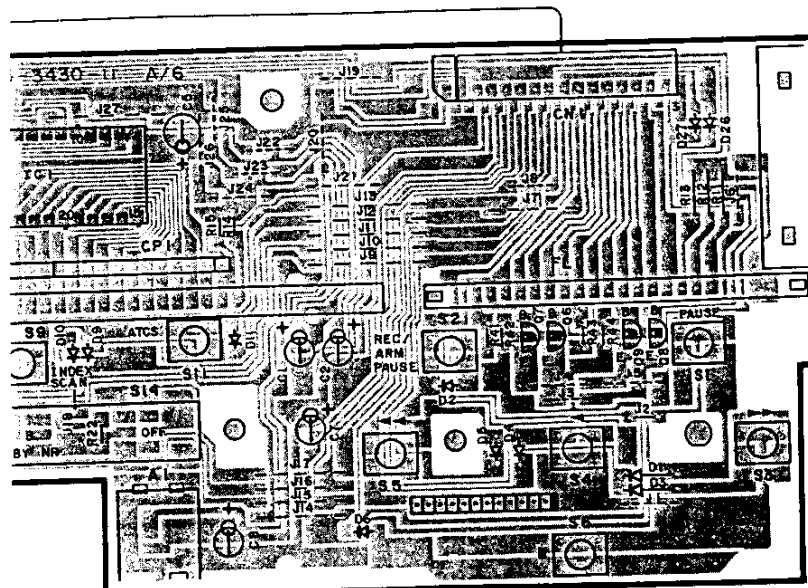
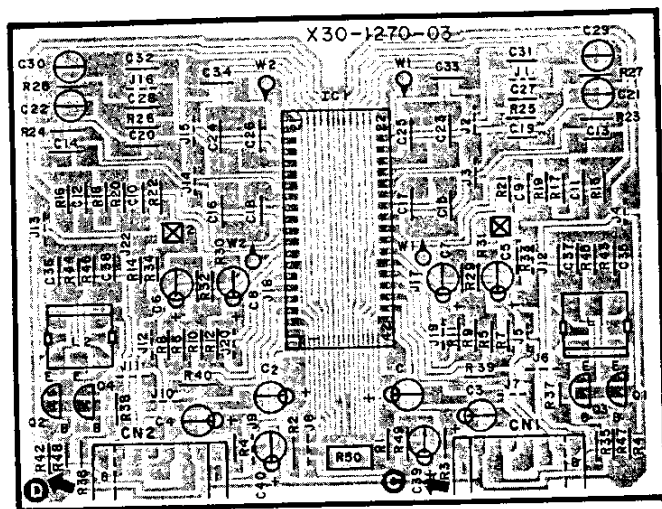
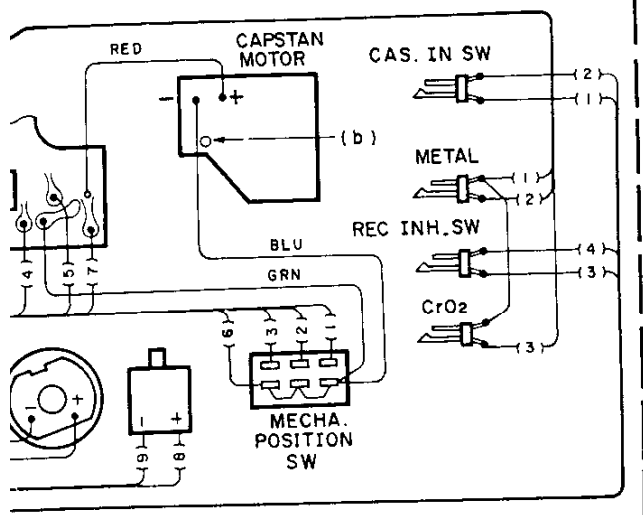


FRONT

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Refer to the schematic diag

MECHA ASSY
D40-0835-05



Ref. No.	IC	Q	Address
		1	5AI
		2	6AI
		3	6X
		4	6X
		5	6X
		6	6AL
		7	6AL
		8	6AL
		9	6AL
1			6AJ
2			6Y
3			6Y
4			3Y

X26-1220-11

Ref. No.	IC	Q	Address
		1	2AB
		2	2AB
		3	3AC
		4	4AC
		5	3AC
		6	4AC
		7	3AC
		8	4AC
		9	3AC
		10	4AC
		11	6AB
		12	6AB
		13	6AB
		14	6AB
		15	1AD
		16	2AD
		17	2AD
		18	1AD
		19	2AE
		20	2AE
		21	2AE
		22	2AB
		23	6AD
		24	6AD
		25	4AE
		26	4AE
		27	3AE
		28	3AE
		29	3AE
		30	3AE
		31	5AD
		32	3AE
		33	3AE
		34	2AE
		35	2AE
		36	6AE
		37	3AE
		38	3AF
		39	3AF
		40	3AF
		41	5AD
		42	6AC

Ref. No.	IC	Q	Address
		43	4AE
		44	4AE
		45	4AE
		46	4AE
		47	3AE
		48	2AD
		49	4AD
1			5AB
2			6AC
3			3AA
4			
5			6AB
6			1AC
7			2AD
8			2AE
9			6AD
10			6AD
11			6AE
12			4AE
13			5AE
14			2AD
15			3AD
16			4AD
17			3AB
18			3AB
19			3AE

X30-1270-03

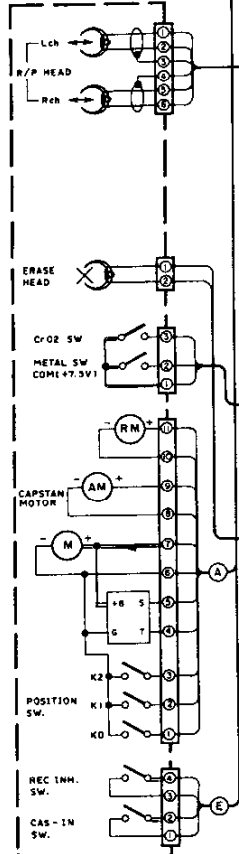
Ref. No.	IC	Q	Address
		1	5AM
		2	5AK
		3	5AL
		4	5AK
1			4AL

X87-1270-00

Ref. No.	IC	Q	Address
		1	4AG
		2	6AH
1			5AG

KX-5010(K)

(D40-0835-05)
CASSETTE
MECHANISM ASS'Y



— SIGNAL LINE
— REC LINE
— GND LINE
— +B LINE
— -B LINE

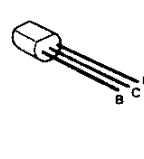
- IC2, 4 : NJM4558D-A or M5218P-A
- IC3 : M8840668M or μ PD4066BC
- IC5 ~ 7 : NJM4558D or M5218P
- IC8 : NJM07280 or μ PC4072C
- IC9 ~ 11 : TD62554S
- IC12 : NJM555D
- IC13 : CXP5096-0035
- IC14 : μ PC7812HF or AN7812F
- IC15 : M5F78M09L
- IC16 : M5F79M09L
- IC17 : TA78L006AP
- IC18 : TA79L006P
- IC19 : μ PC78L05J or NJM78L05A

- D1, 3 ~ 35, 37 ~ 46, 49, 51, 53, 56 ~ 59, 63 ~ 69 : 1SS176 or 1SS133
- D54 : R05.1ES(B2) or HZS5.1N1(B2)
- D55 : R05.6ES(B2) or HZS5.6N1(B2)
- D60 : R03.9ES(B2) or HZS3.9N1(B2)
- D61 : R01.1ES(B2) or HZS1.1N1(B2)
- D62 : R02.0JS(B2) or HZS2.0S1(B2)

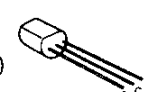
- Q1, 2, 15, 16 : 2SD1302(S,T) or 2SC2878(B)
- Q3 ~ 10, 17 ~ 22, 43 ~ 47 : 2SC1740S(Q,R) or 2SC945(A)(Q,P)
- Q11, 12 : 2SC2003(L,K)
- Q13, 14 : 2SA954(L,K)
- Q23 ~ 26, 29, 30 : 2SA933S(Q,R) or 2SA733(A)(Q,P)
- Q28, 33 ~ 36 : DTC124EN
- Q31, 32, 37 ~ 40 : DTA124EN
- Q48 : 2SD1266(Q,P)
- Q49 : 2SB941(Q,P)

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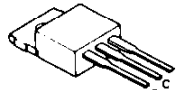
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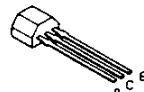
- DTC124EN
- 2SA733(A)
- 2SA954
- 2SC1685
- 2SC2003
- 2SC2878
- 2SC945(A)
- 2SD1302
- 2SD863



2SD1266



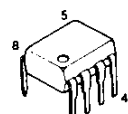
- 2SA933S
- 2SC1740S



2SB941

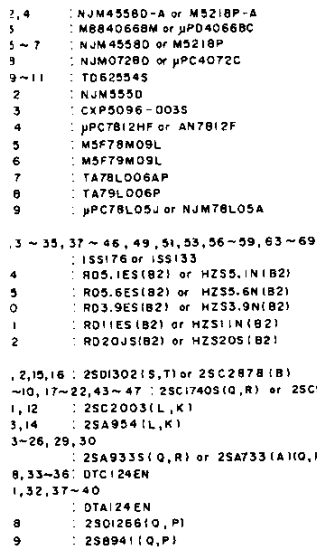


- NJM0728D
- NJM4558D
- NJM4558D-A
- NJM555D



TX301



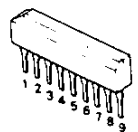
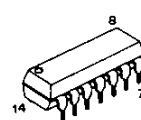
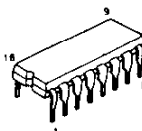
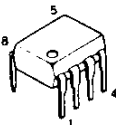
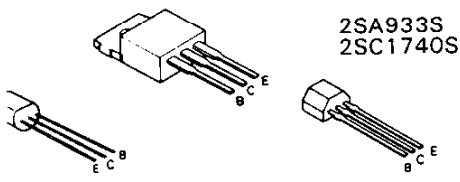


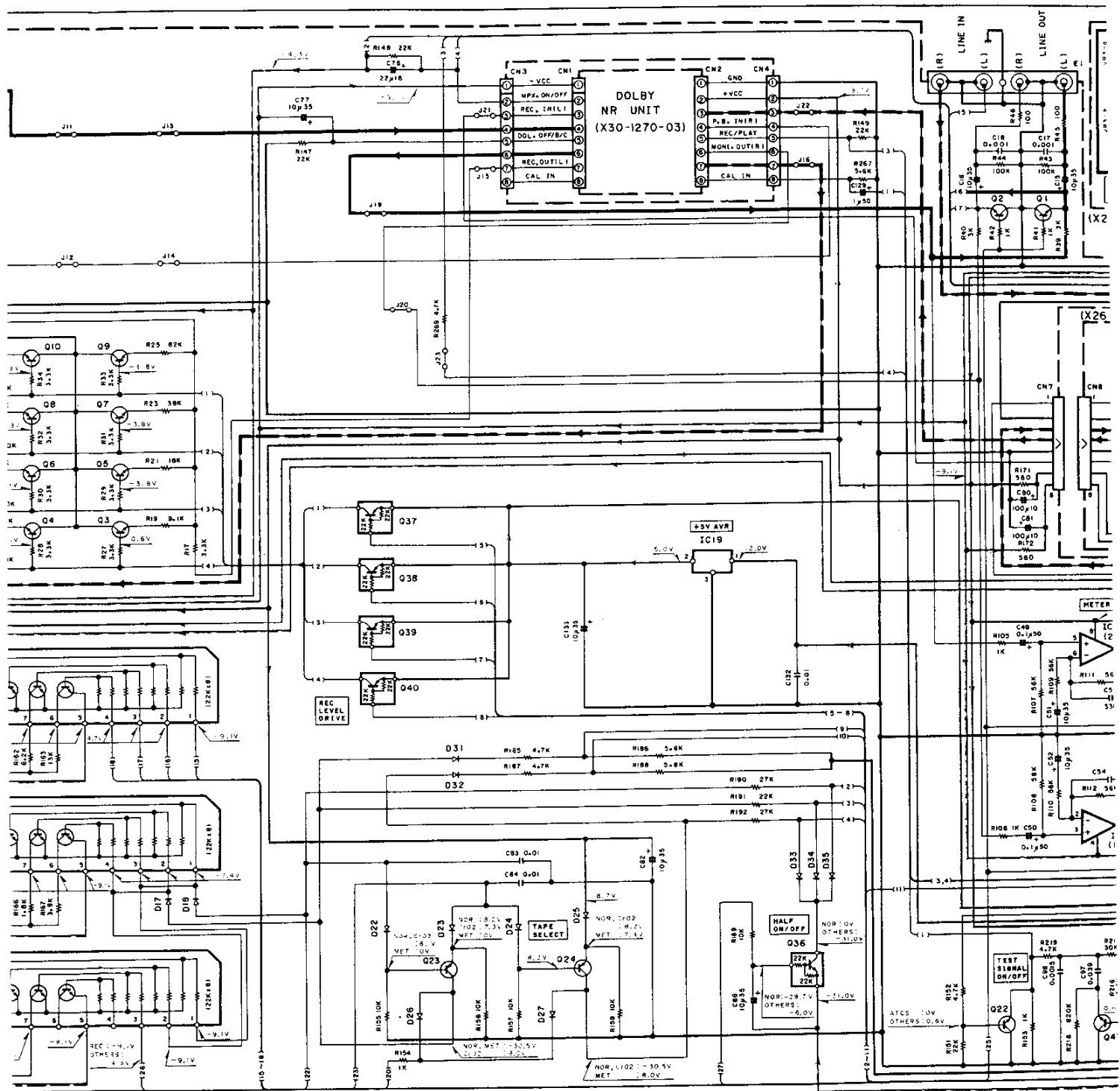
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MB84066BM

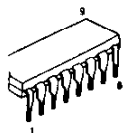
NJM072BD
NJM4558D
NJM4558D-A
NJM555D

TD62554S

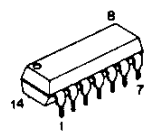




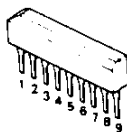
X3010N



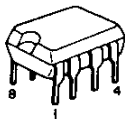
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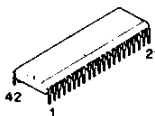
TD62554S



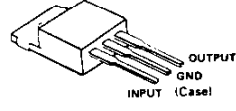
M5218P
M5218P-A
M5220P
UPC4072C



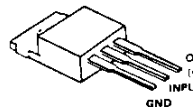
CX20188



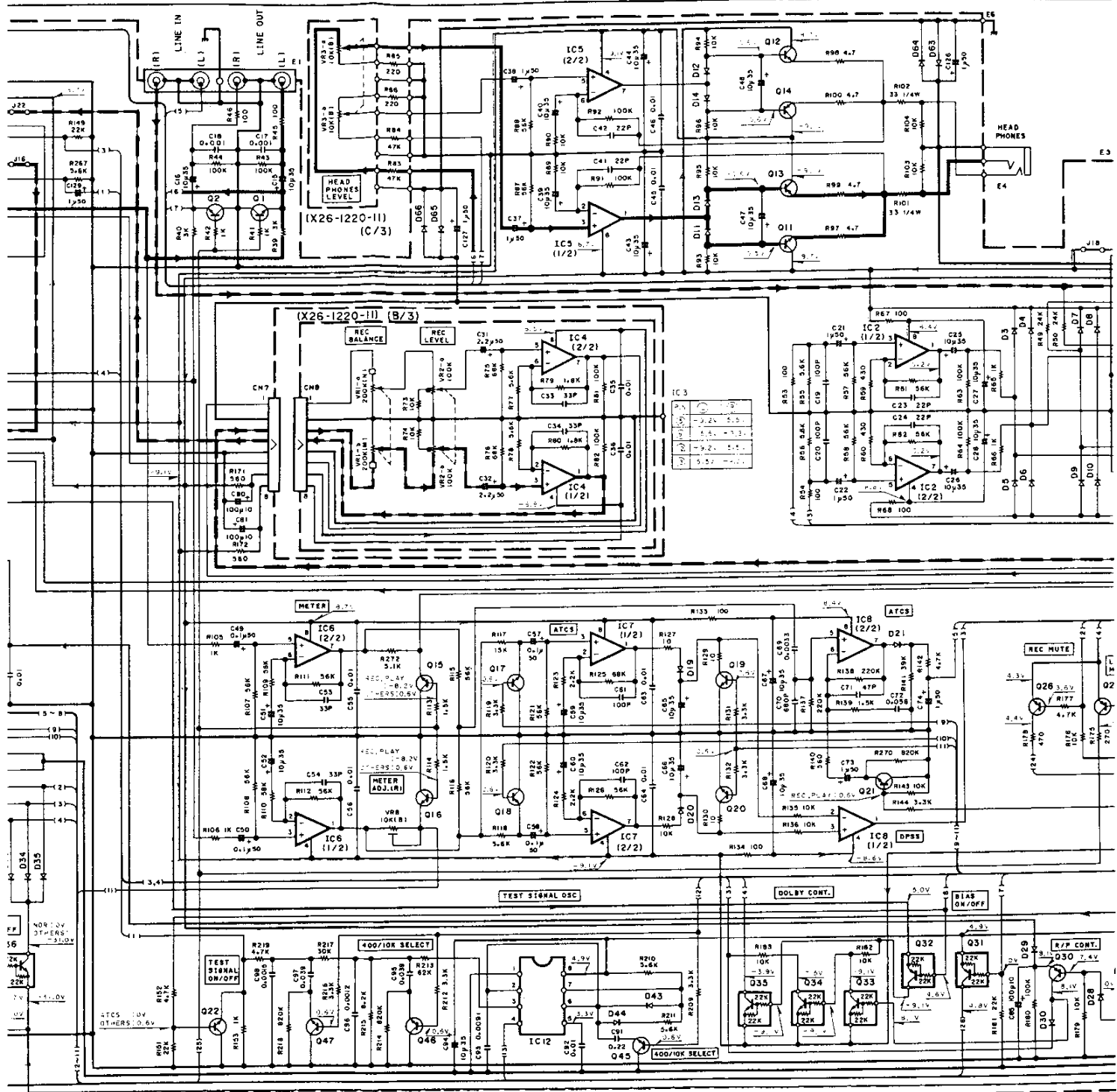
AN7812F
M5F78M09L
UPC7812HF



M5F79M09L



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Q26	Q28	Q29	Q30	Q31	Q32	Q33	Q34
PLAY 0.5V 4.5V 5.8V REC 4.7V 5.8V 4.7V	PLAY 0V 11.8V 0.2 REC 0V 0V 4.6V	PLAY 11.9V 0V 11.9V REC 11.9V 11.9V 11.2V	PLAY 8.1V 8.1V 7.4V REC 11.3V 11.3V 8.3V	PLAY 4.8V 4.9V 2V REC 5.3V 4.8V 4.9V	PLAY 15.0V 9.0V 4.6V REC 5.3V 9.7V 4.6V	PLAY 15.0V 9.0V 4.6V REC 5.3V 9.7V 4.6V	PLAY 9.1V 9.0V 8.1V REC 9.1V 9.0V 9.0V ATCS 9.1V 9.7V 9.1V

AN7812F
M5F78M09L
UPC7812HF

TA78L006AP

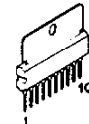
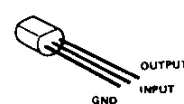
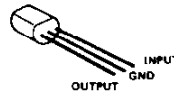
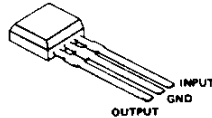
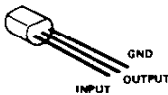
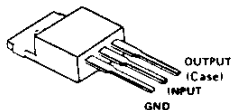
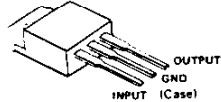
NJM78L05A

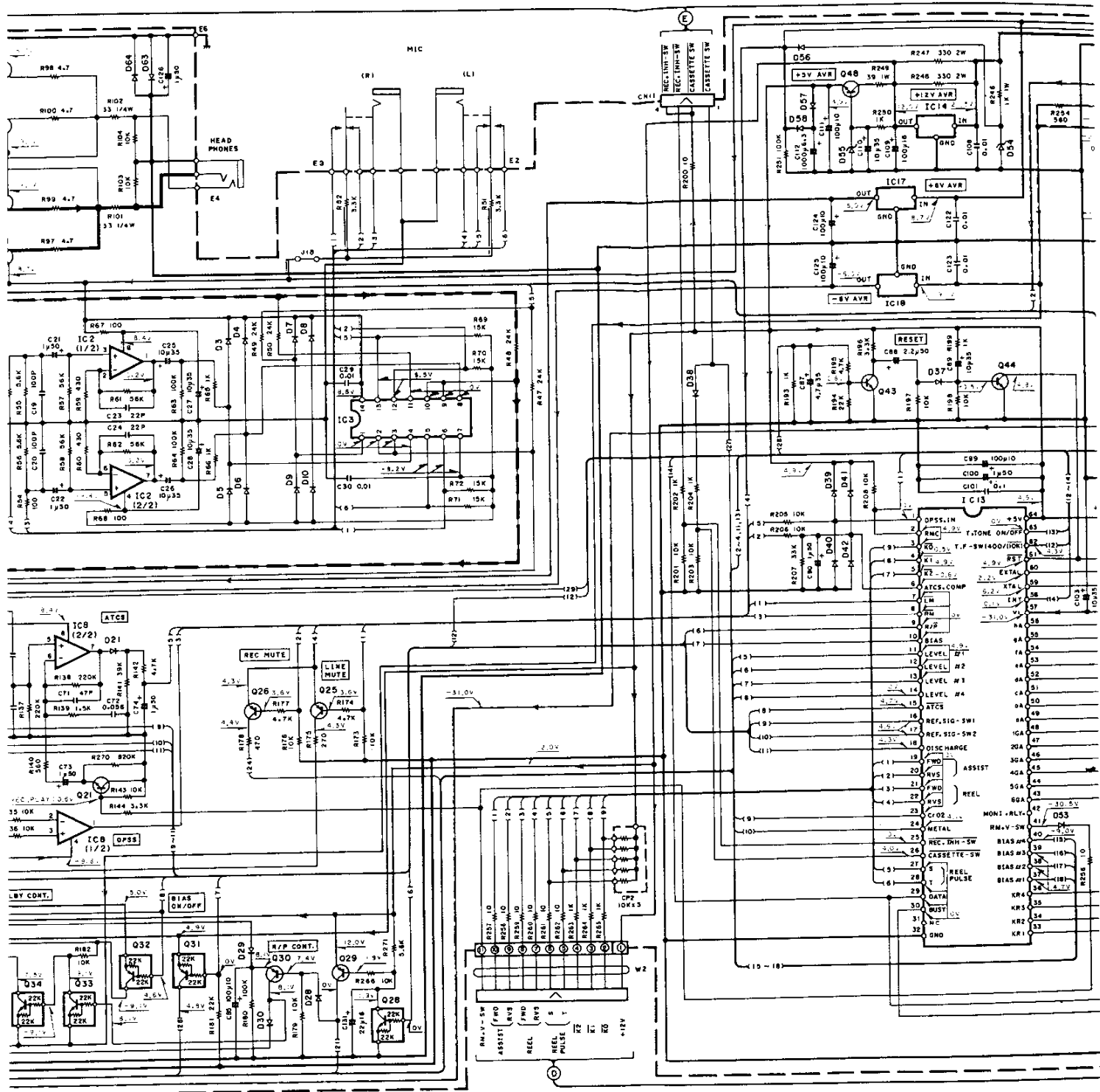
BA6209
BA6229

M5F79M09L

UPC78L05J

TA79L006P





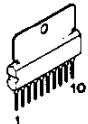
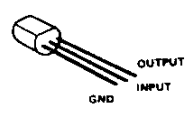
	E	C	B
Q33	PLAY -9.1V	-9.0V	-9.1V
	REC -9.1V	-9.0V	-9.0V
	ATCS -9.1V	-9.0V	-9.0V

	E	C	B
Q34	PLAY -9.1V	-9.0V	-9.1V
	REC -9.1V	-9.0V	-9.0V
	ATCS -9.1V	-9.0V	-9.0V

	E	C	B
Q35	PLAY -9.1V	-9.0V	-9.1V
	REC -9.1V	-9.0V	-9.0V
	ATCS -9.1V	-9.0V	-9.0V

BA6209
BA6229

TA79L006P



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.

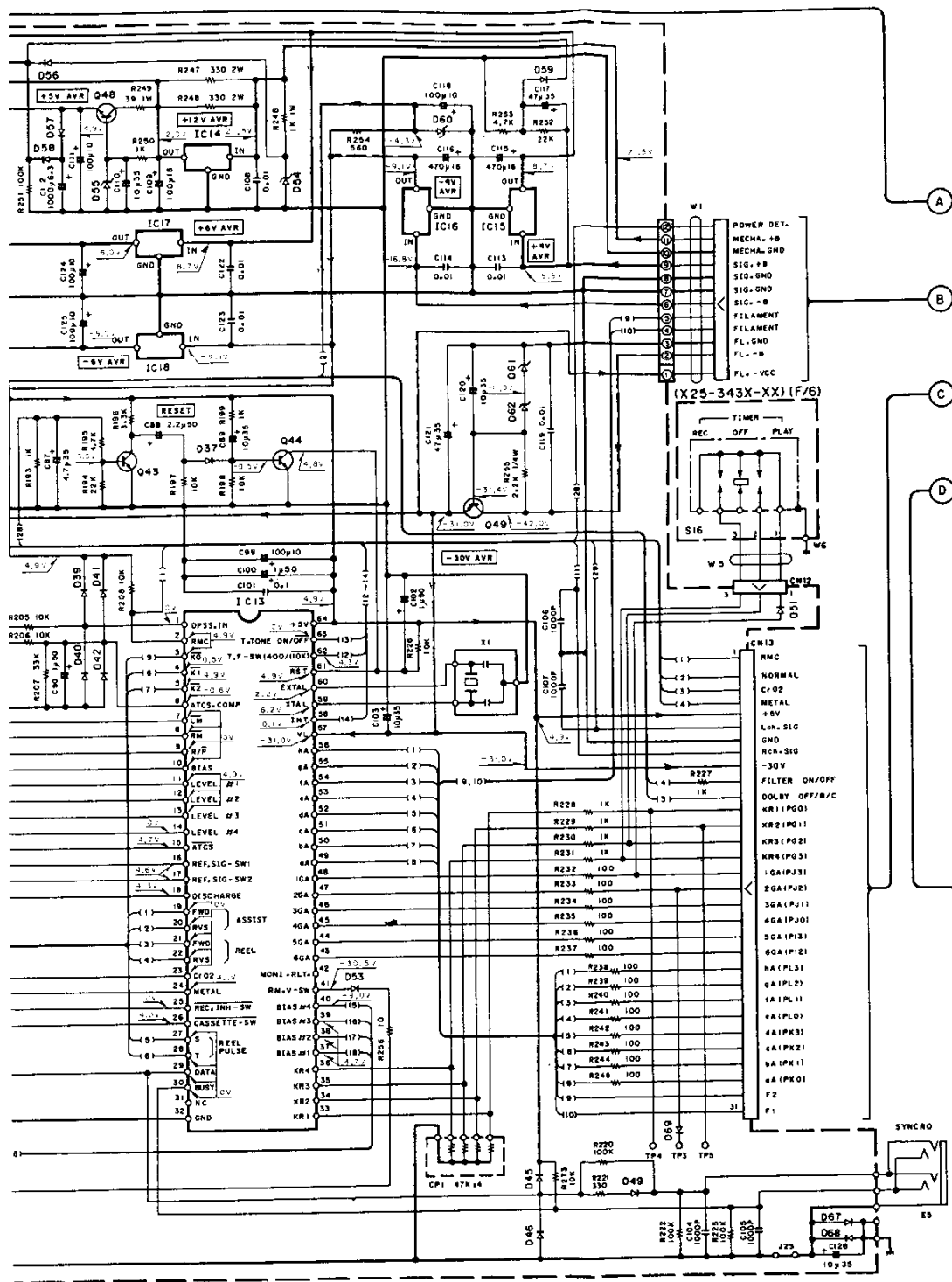
DC voltages are as measured with a high impedance voltmeter with a cassette loaded at playback mode. Values may vary slightly due to variations between individual instruments or/and units. Bias circuit DC voltages are as measured while in the record mode.

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Les tensions c.c. haute impédance, ture. Les valeurs p tions inhérentes à individuels.

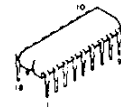
Les tensions c.c. l'appareil étant en

Die angegebenen setzter Cassette Spannungsmesse werte aufgrund strumenten oder Gleichspannungs wurden in der Aut

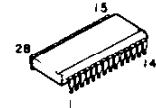


KX-5010(KH1/2)

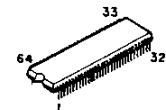
UPC1297CA



BA6805A



CXP5096-003S



Replace safety critical components with recommended parts (refer to the list of components). To reduce the risk of fire or resistance measurements are acceptably insulated from the chassis, this is returned to the customer.

high impedance voltme- mode. Values may vary from individual instruments as measured while in

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.

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Y26-2860-11

KX-5010
KENWOOD

(X87-1030-06)

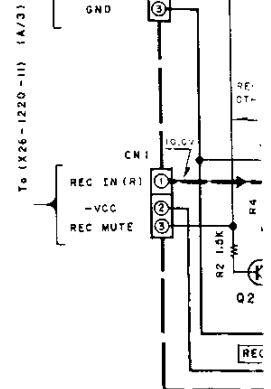
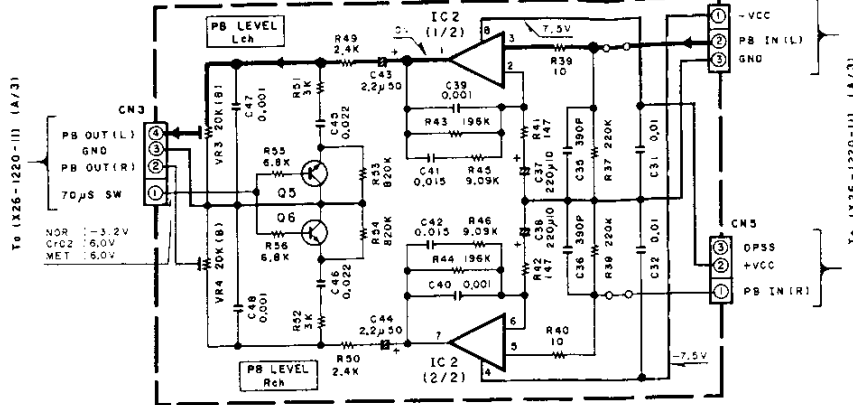
IC1 : TX3010N

IC2 : M5220P

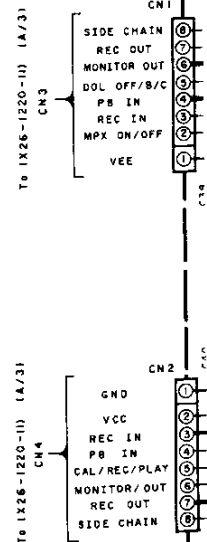
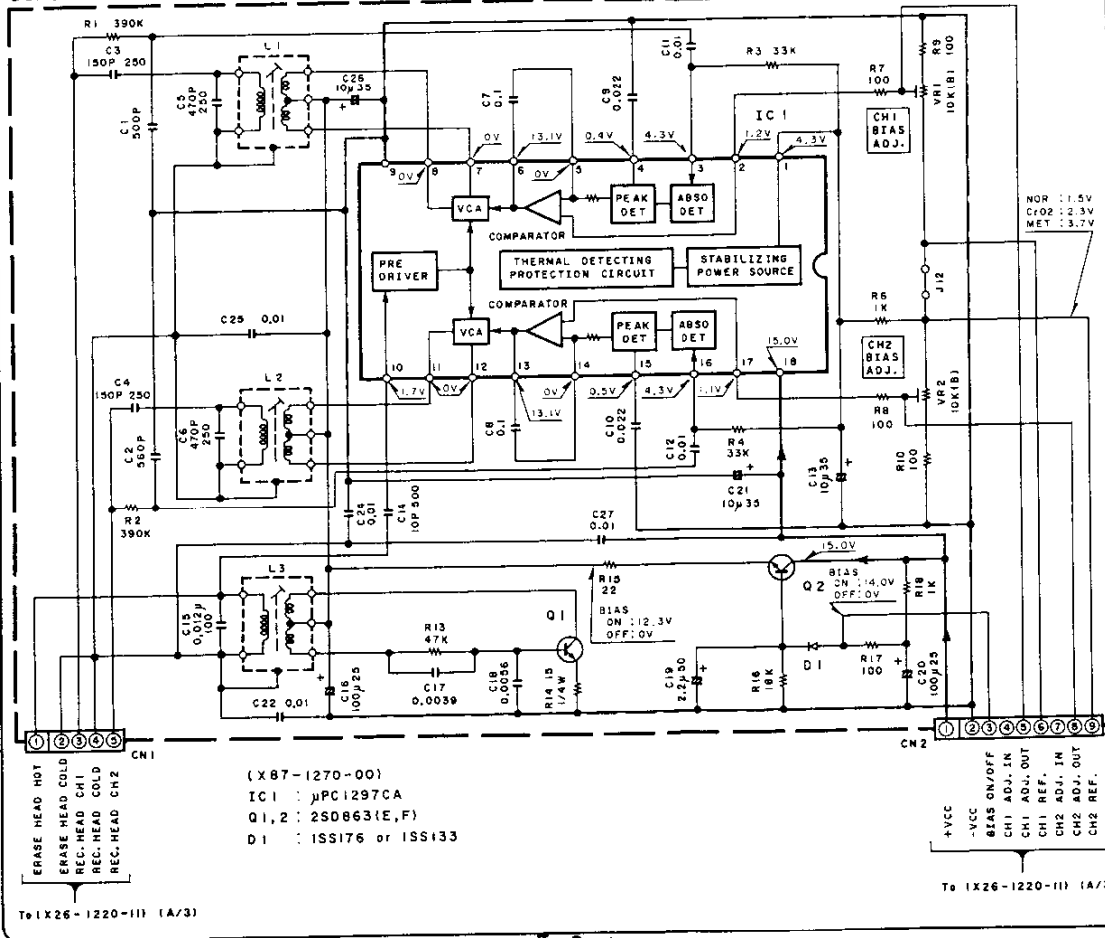
Q1~6 : 2SC1740S(Q,R), 2SC945(A)(Q,P)
or 2SC1685(R,S)

D1,2 : 1SS176

PB AMP UNIT (X87-1030-06)(B/2)

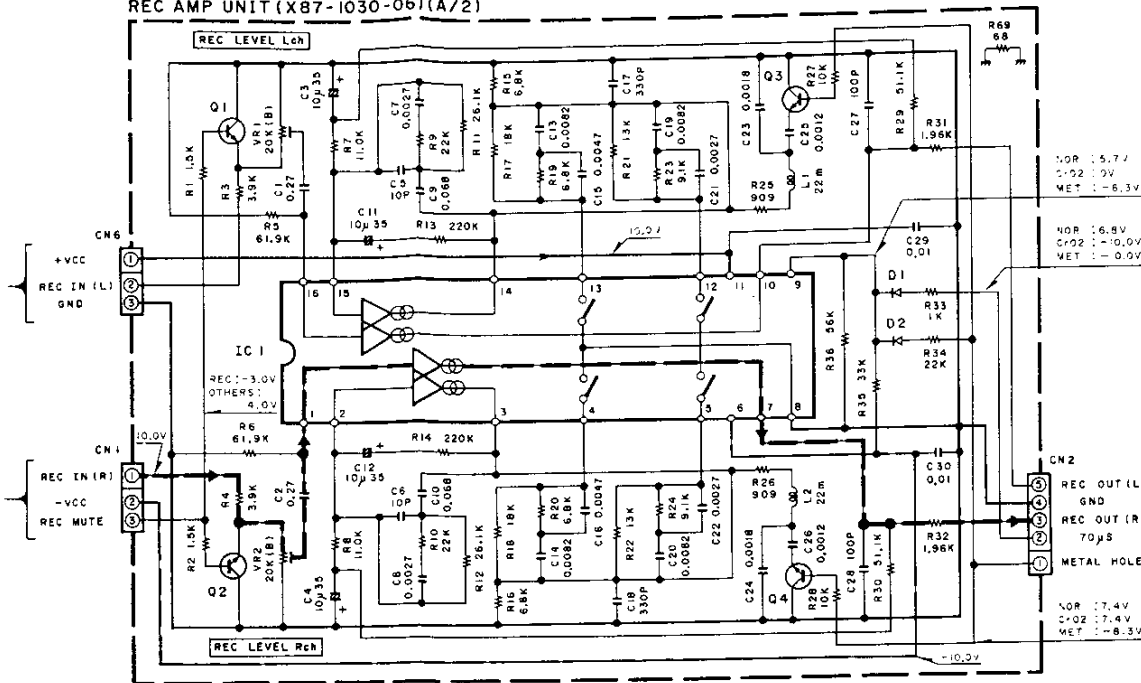


BIAS OSC UNIT (X87-1270-00)



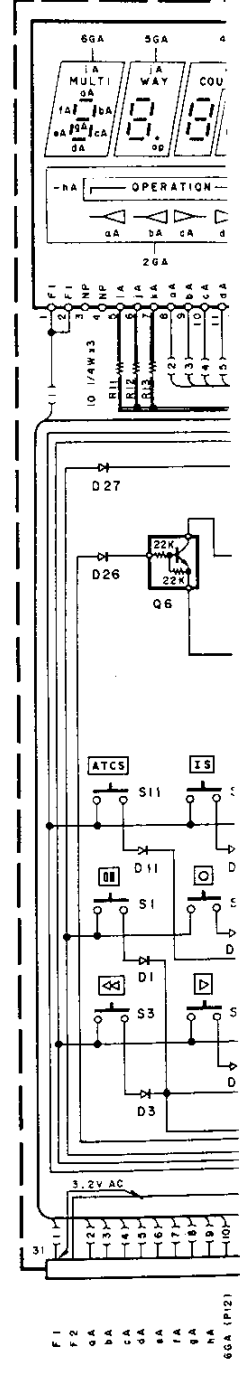
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REC AMP UNIT (X87-1030-06) (A/2)

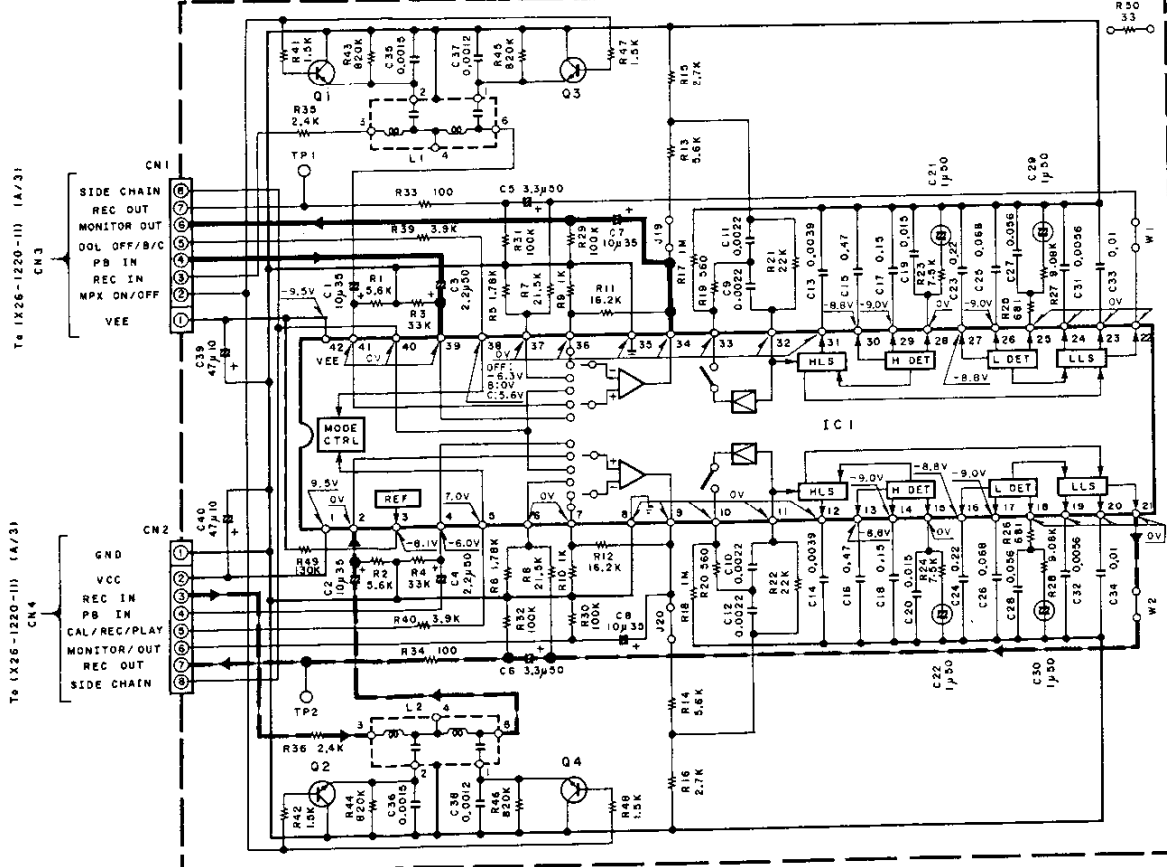


(X25-3
IC1 : B
IC2 : B
IC3 : B

(X25-343X-XX) (A/



DOLBY NR UNIT (X30-1270-03)

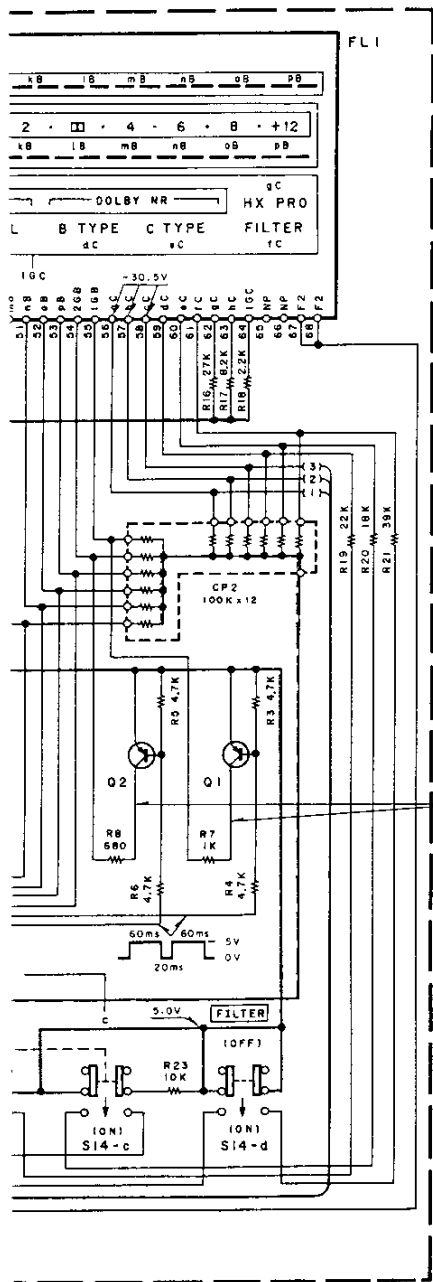


IC1 : CX20188

Q1 ~ 4 : 2SC1740S (Q,R) or 2SC945 (A) (Q,P)

DC voltages are as measured with
ter with a cassette loaded at playb
slightly due to variations betw
or/and units. Bias circuit DC voltag
the record mode.

9-12,26,27:ISS176 or ISS133 or HSS104
 24 :35566B
 :RD6.8ES(B2) or HZS6.8N(B2)
 :BG-591GK



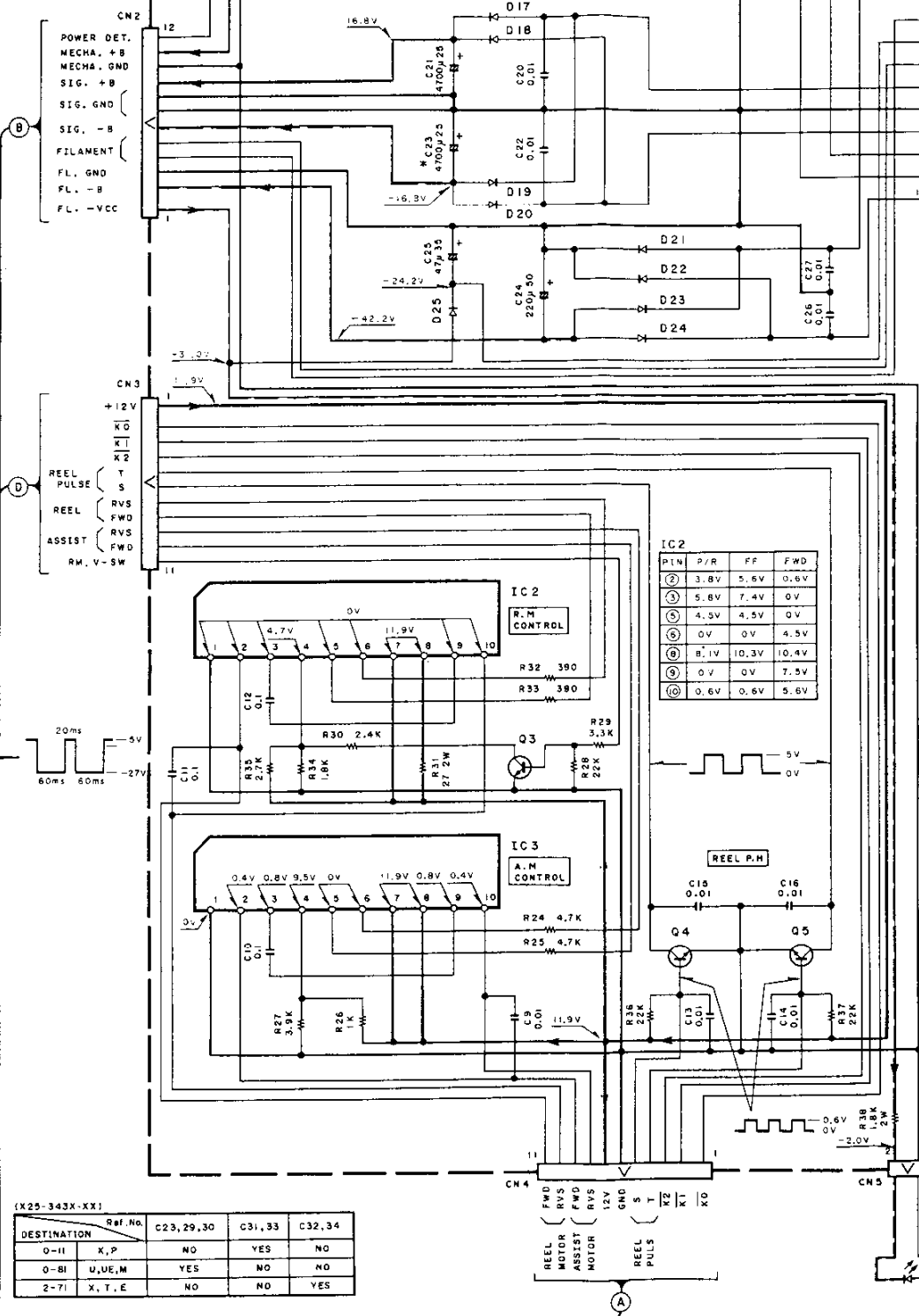
DESTINATION	Ref. No.	C23, 29, 30	C31, 33	C32, 34
0-II	X, P	NO	YES	NO
0-BI	U, UE, M	YES	NO	NO
2-TI	X, T, E	NO	NO	YES

critical components (refer to the measurements insulated from the custom-

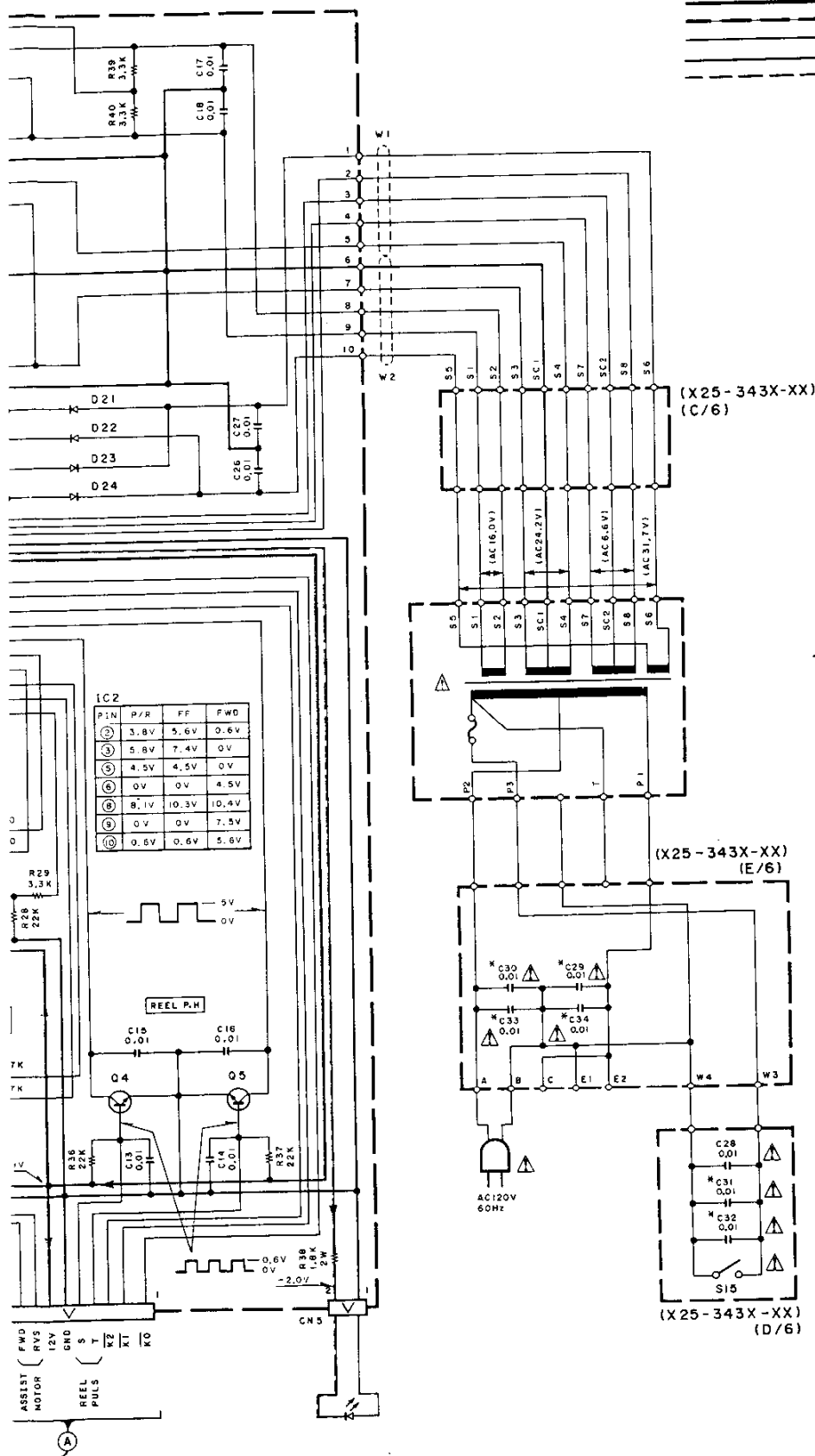
DC voltages are as measured with a high impedance voltmeter with a cassette loaded at playback mode. Values may vary slightly due to variations between individual instruments or/and units. Bias circuit DC voltages are as measured while in the record mode.

Les tensions c.c. doivent être mesurées avec un voltmètre à haute impédance, une cassette étant insérée en mode du 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.

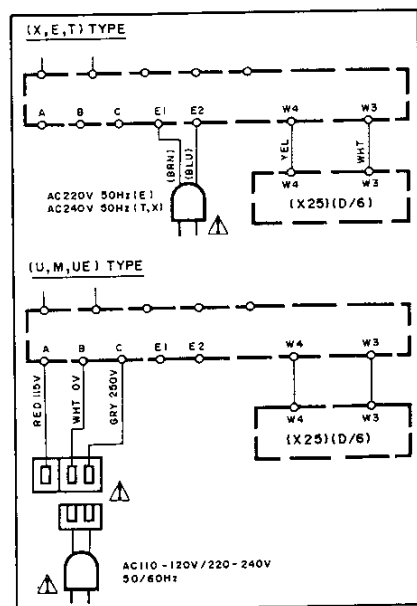
Die angegebenen Gleichspann-
 setzer Cassette in der Wieder-
 Spannungsmesser gemessen.
 werte aufgrund von Untersch-
 strumenten oder Geräten u. U.
 Gleichspannungswerte der
 wurden in der Aufnahme-Betrie-



PIN	P/R	FF	FWD
1	3.8V	5.6V	0.6V
2	5.8V	7.4V	0V
3	4.3V	4.5V	0V
4	0V	0V	4.5V
5	8.1V	10.3V	10.4V
6	0V	0V	7.5V
7	0.6V	0.6V	5.6V



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KX-5010 (K) (2/2)

un voltmètre à
 en mode du lec-
 u fait des varia-
 ants de mesure
 être mesurées.

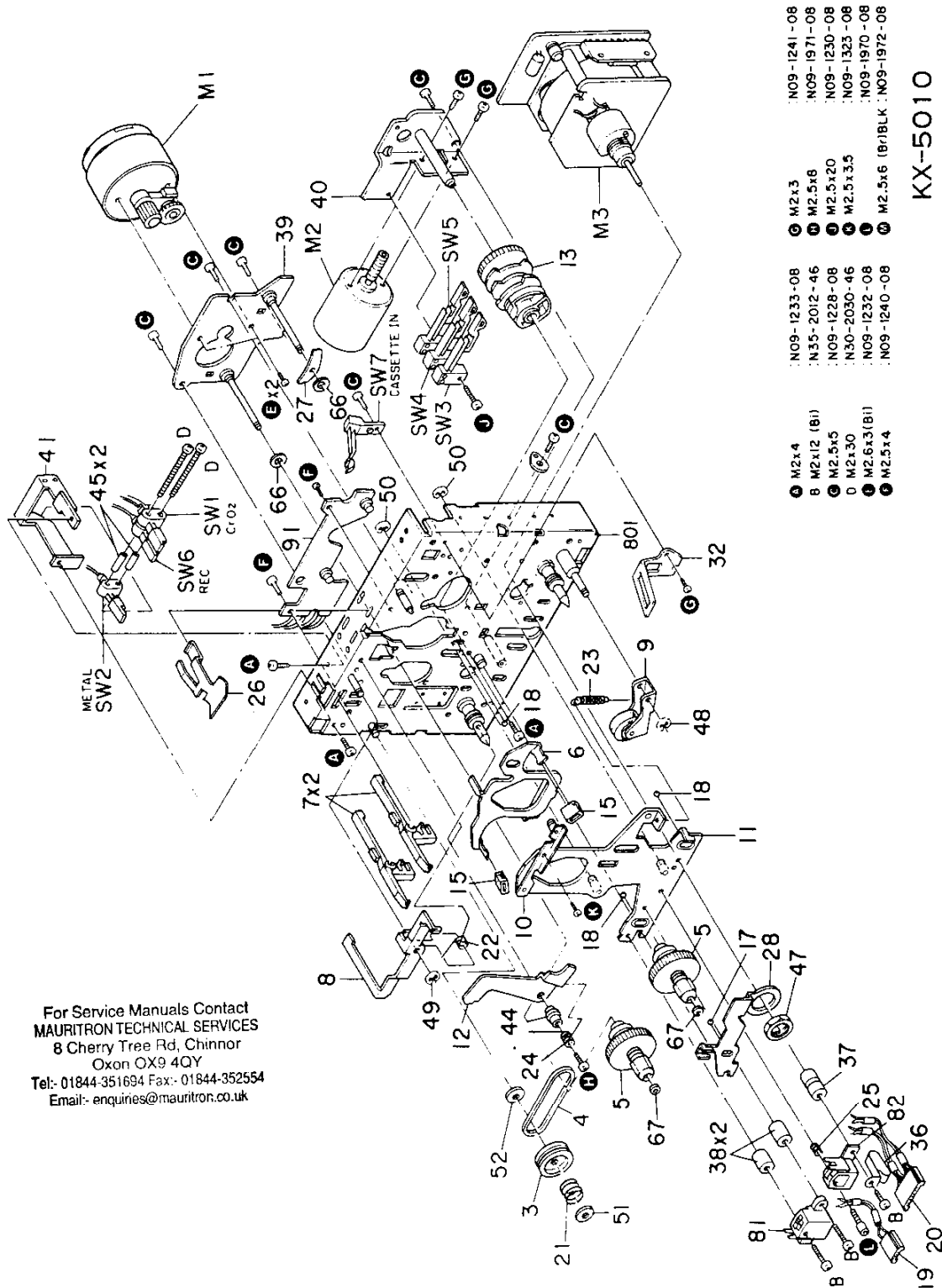
Die angegebenen Gleichspannungswerte wurden bei einge-
 setzter Cassette in der Wiedergabe mit einem hochohmigen
 Spannungsmesser gemessen. Dabei schwanken die Meß-
 werte aufgrund von Unterschieden zwischen einzelnen In-
 strumenten oder Geräten u. U. geringfügig. Die angegebenen
 Gleichspannungswerte der Vormagnetisierungsschaltung
 wurden in der Aufnahme-Betriebsart gemessen.

Y26-2860-11

KX-5010
KENWOOD

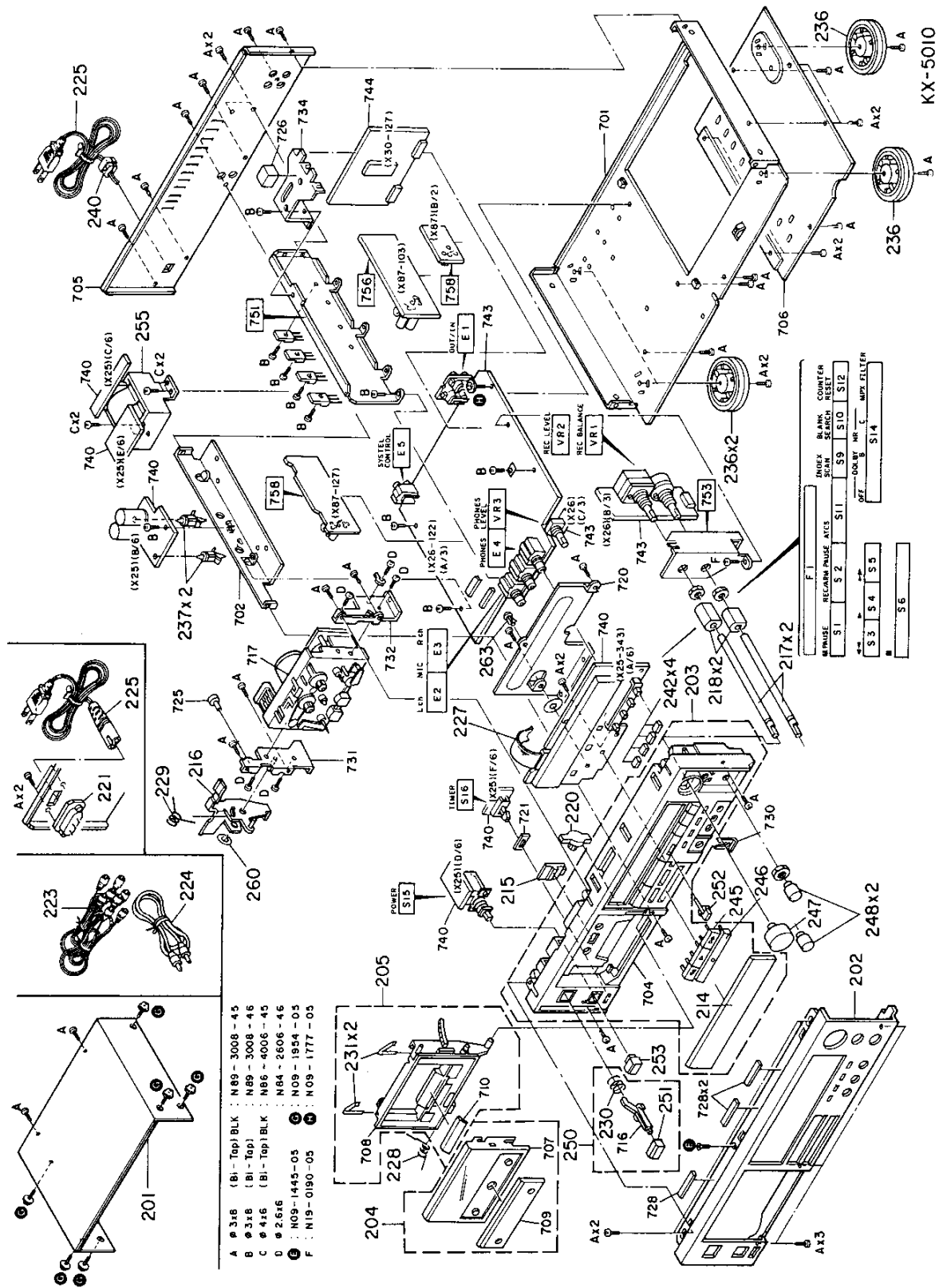
KX-5010

EXPLODED VIEW (MECHANISM)



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

EXPLODED VIEW (UNIT)



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

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PARTS LIST

× New Parts

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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 新	Parts No. 部品番号	Description 部品名 / 規格	Desti- nation 仕向	Re- marks 備考
KX-5010						
201	1D	*	A01-1696-01	METALLIC CABINET		
202	2D	*	A20-5634-02	PANEL		
203	2E	*	A22-1030-01	SUB PANEL ASSY		
204	1D	*	A53-1062-03	CASSETTE LID ASSY	KPUUEM	
204	1D	*	A53-1062-03	CASSETTE LID ASSY	X	
204	1D	*	A53-1078-03	CASSETTE LID ASSY	TE	
205	1D	*	A53-1064-03	CASSETTE HOLDER ASSY		
214	2D	*	B10-0973-04	FRONT GLASS		
215	2D	*	B30-1036-05	LED(SLF-601C)		
-			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	
-		*	B50-9132-00	INSTRUCTION MANUAL(ENGLISH)		
-		*	B50-9133-00	INSTRUCTION MANUAL(FRENCH)	PMXE	
-		*	B50-9134-00	INSTRUCTION MANUAL(SPANISH)	M	
-		*	B50-9135-00	INSTRUCTION MANUAL(G,D,I)	E	
-			B58-0223-04	CAUTION CARD (PRE-SET 120V)	U	
-			B58-0513-04	CAUTION CARD (PRESET220-240)	UE	
216	1E	*	D10-2241-03	LEVER (MECHA)		
217	2E	*	D21-1486-04	EXTENSION SHAFT(VSL)		
218	2E	*	D22-0067-04	SHAFT COUPLING		
220	2E		D39-0176-05	DAMPER		
△ 221	1E		E03-0102-25	AC INLET	UUEM	
223	1D		E30-0505-05	AUDIO CORD		
224	1D		E30-0977-05	CORD WITH PLUG		
△ 225	1E		E30-1305-15	AC POWER CORD (INLET)	UUEM	
△ 225	1F		E30-2275-05	AC POWER CORD	X	
△ 225	1F		E30-2276-05	AC POWER CORD	T	
△ 225	1F		E30-2277-05	AC POWER CORD	E	
△ 225	1F		E30-2405-05	AC POWER CORD	KP	
227	1E	*	E31-4301-05	WIRING HARNESS		
228	1D	*	G01-2289-04	TORSION COIL SPRING(HOLDER)		
229	1E	*	G01-2346-04	TORSION COIL SPRING(LEVER)		
230	2D	*	G01-2347-04	COMPRESSION SPRING		
231	1D		G02-0364-04	FLAT SPRING		
-		*	H01-7978-04	ITEM CARTON CASE		
-		*	H10-3694-02	POLYSTYRENE FOAMED FIXTURE		
-		*	H10-3695-02	POLYSTYRENE FOAMED FIXTURE		
-			H25-0224-04	PROTECTION BAG (800X400X0.03)		
-			H25-0232-04	PROTECTION BAG (235X350X0.03)		
236	2F	*	J02-1002-05	FOOT		
237	1E		J19-0506-05	UNIT HOLDER		
240	1F		J42-0083-05	POWER CORD BUSHING	KPXT	
-			J61-0307-05	WIRE BAND		
242	2E	*	K27-1931-04	KNOB (BUTTON) DOLBY NR/MPX		
245	2D	*	K29-3359-04	KNOB (PLAY)		
246	2D	*	K29-3360-04	KNOB (STOP)		
247	2D	*	K29-3361-04	KNOB (REC LEVEL)		

E: Scandinavia & Europe K: USA P: Canada

U: PX(Far East, Hawaii) T: England M: Other Areas

UE: AAFES(Europe) X: Australia

△ indicates safety critical components.

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
248	2D	*	K29-3362-04	KN0B (LEVEL/BALANCE)		
250	2D	*	K29-3364-04	KN0B ASSY (EJECT)		
251	2D	*	K29-3365-04	KN0B (EJECT)		
252	2D	*	K29-3495-04	KN0B (ATCS)		
253	2D	*	K29-3516-04	KN0B ASSY (POWER)		
255	1F	*	L01-5592-05	POWER TRANSFORMER		
260	1D		N19-0880-04	FLAT WASHER		
263	2E		N29-0067-05	PUSH RIVET (3.5X4.5)		
E	2D		N09-1445-05	SET SCREW (M3X8 93)		
F	1D		N19-0190-05	INSULATING WASHER		
G	2F		N09-1954-05	MACHINE SCREW		
H			N09-1777-05	SEMS (TAPTITE SCREW)		
DISPLAY UNIT (X25-3430-11: K, P, 0-81: U, UE, 2-71: T, E)						
C1	.2		CE04KW1H010M	ELECTR0 1.0UF 50WV		
C3	.4		CE04KW1V100M	ELECTR0 10UF 35WV		
C5			CE04JW1A101M	ELECTR0 100UF 10WV		
C6			CF92FV1H153J	MF 0.015UF J		
C7			CE04KW1V100M	ELECTR0 10UF 35WV		
C9	-12		C91-0700-05	CERAMIC 0.1UF J		
C13	-18		CK45FF1H103Z	CERAMIC 0.010UF Z		
C19			CE04KW1E472M	ELECTR0 4700UF 25WV		
C20			CK45FF1H103Z	CERAMIC 0.010UF Z		
C21		*	C90-1666-05	ALMINIUM ELECTROLYTIC C.		
C22			CK45FF1H103Z	CERAMIC 0.010UF Z		
C23		*	C90-1666-05	ALMINIUM ELECTROLYTIC C.		
C24			CE04KW1H221M	ELECTR0 220UF 50WV		
C25			CE04KW1V470M	ELECTR0 47UF 35WV		
C26	.27		CK45FF1H103Z	CERAMIC 0.010UF Z		
C28	-30		C91-0023-05	CERAMIC 0.01UF AC250V	UUEM	
C31			C91-0971-05	FILM 0.01UF 250WV	KP	
C32			C91-0647-05	CERAMIC 0.01UF P	XTE	
C33			C91-0971-05	FILM 0.01UF 250WV	KP	
C34			C91-0647-05	CERAMIC 0.01UF P	XTE	
CN1			E10-3102-05	FLAT CABLE CONNECTOR		
			F29-0072-05	INSULATING COVER	XTE	
		*	J21-5159-04	MSUNTING HARDWARE	XTE	
CP1			R90-0258-05	MULTI-COMP 100KX11 J 1/6W		
CP2			R90-0272-05	MULTI-COMP 100KX12 J 1/6W		
R31			RS14KB3D270J	FL-PROOF RS 27 J 2W		
R38			RS14KB3D182J	FL-PROOF RS 1.8K J 2W		
S1	-6		S40-1064-05	PUSH SWITCH		
S9	-12		S40-1064-05	PUSH SWITCH		
S14		*	S42-4057-05	MULTIPLE PUSH SWITCH		
S15		*	S40-1138-05	PUSH SWITCH (POWER TYPE)		
S16		*	S31-1030-05	SLIDE SWITCH (TIMER)		
D1	-6		1SS133	DIODE		
D1	-6		1SS176	DIODE		
D9	-12		1SS133	DIODE		
D9	-12		1SS176	DIODE		
D13	-24		55566B	DIODE		
D25			HZS6.8N(B2)	ZENER DIODE		

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P: Canada

U: PX(Far East, Hawaii)

T: England

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UE: AAFES(Europe)

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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
D25 D26 .27 D26 .27 FL1 IC1			RD6. BES(B2) 1SS133 1SS176 BG-591GK BA6805A	ZENER DIODE DIODE DIODE FLUORESCENT INDICATOR TUBE IC(LEVEL METER DRIVER)		
IC2 IC3 Q1 .2 Q1 .2 Q3 -5 Q3 -5 Q6 Q7 Q8 Q9			BA6229 BA6209 2SA733(A)(Q,P) 2SA933S(Q,R) 2SC1740S(Q,R) 2SC945(A)(Q,P) DTC124EN DTA124EN DTC124EN DTA124EN	IC(MOTOR DRIVER) IC(MOTOR DRIVER) TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR DIGITAL TRANSISTOR DIGITAL TRANSISTOR DIGITAL TRANSISTOR DIGITAL TRANSISTOR		
CASSETTE UNIT (X26-1220-11)						
C15 .16 C17 .18 C19 .20 C21 .22 C23 .24			CE04KW1V100M CF92FV1H102J CC45FSL1H101J CE04KW1H010M CC45FSL1H220J	ELECTR MF CERAMIC ELECTR CERAMIC	10UF 1000PF 100PF 1.0UF 22PF	35WV J J 50WV J
C25 -28 C29 .30 C31 .32 C33 .34 C35 .36			CE04KW1V100M CK45FF1H103Z CE04KW1H2R2M CC45FSL1H330J CK45FF1H103Z	ELECTR CERAMIC ELECTR CERAMIC CERAMIC	10UF 0.010UF 2.2UF 33PF 0.010UF	35WV Z 50WV J Z
C37 .38 C39 .40 C41 .42 C43 .44 C45 .46			CE04KW1H010M CE04KW1V100M CC45FSL1H220J CE04KW1V100M CK45FF1H103Z	ELECTR ELECTR CERAMIC ELECTR CERAMIC	1.0UF 10UF 22PF 10UF 0.010UF	50WV 35WV J 35WV Z
C47 .48 C49 .50 C51 .52 C53 .54 C55 .56			CE04KW1V100M CE04KW1H0R1M CE04KW1V100M CC45FSL1H330J CK45FF1H103Z	ELECTR ELECTR ELECTR CERAMIC CERAMIC	10UF 0.1UF 10UF 33PF 0.010UF	35WV 50WV 35WV J Z
C57 .58 C59 .60 C61 .62 C63 .64 C65 -68			CE04KW1H0R1M CE04KW1V100M CC45FSL1H101J CK45FF1H103Z CE04KW1V100M	ELECTR ELECTR ELECTR CERAMIC ELECTR	0.1UF 10UF 100PF 0.010UF 10UF	50WV 35WV J Z 35WV
C69 C70 C71 C72 C73 .74			CF92FV1H332J CK45FB1H6B1K CC45FSL1H470J CF92FV1H563J CE04KW1H010M	MF CERAMIC CERAMIC MF ELECTR	3300PF 680PF 47PF 0.056UF 1.0UF	J K J J 50WV
C75 C76 C77 C78 C79			CE04KW1V100M CE04KW1HR47M CE04KW1V100M CE04KW1C220M CE04KW1H010M	ELECTR ELECTR ELECTR ELECTR ELECTR	10UF 0.47UF 10UF 22UF 1.0UF	35WV 50WV 35WV 16WV 50WV
C80 .81 C82 C83 .84 C85			CE04KW1A101M CE04KW1V100M CK45FF1H103Z CE04KW1A101M	ELECTR ELECTR CERAMIC ELECTR	100UF 10UF 0.010UF 100UF	10WV 35WV Z 10WV

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C86			CE04KW1V100M	ELECTR0 10UF 35WV		
C87			CE04KW1V4R7M	ELECTR0 4.7UF 35WV		
C88			CE04KW1H010M	ELECTR0 1.0UF 50WV		
C89			CE04KW1V100M	ELECTR0 10UF 35WV		
C90			CE04KW1H010M	ELECTR0 1.0UF 50WV		
C91			CF92FV1H224J	MF 0.22UF J		
C92			CF92FV1H103J	MF 0.010UF J		
C93			CF92FV1H912J	MF 9100PF J		
C94			CE04KW1V100M	ELECTR0 10UF 35WV		
C95			CF92FV1H393J	MF 0.039UF J		
C96			CF92FV1H122J	MF 1200PF J		
C97			CF92FV1H393J	MF 0.039UF J		
C98			CF92FV1H152J	MF 1500PF J		
C99			CE04KW1A101M	ELECTR0 100UF 10WV		
C100			CE04KW1H010M	ELECTR0 1.0UF 50WV		
C101			C91-0700-05	CERAMIC 0.1UF J		
C102			CE04KW1H010M	ELECTR0 1.0UF 50WV		
C103			CE04KW1V100M	ELECTR0 10UF 35WV		
C104-107			CK45FB1H102K	CERAMIC 1000PF K		
C108			CK45FF1H103Z	CERAMIC 0.010UF Z		
C109			CE04KW1C101M	ELECTR0 100UF 16WV		
C110			CE04KW1V100M	ELECTR0 10UF 35WV		
C111			CE04KW1A101M	ELECTR0 100UF 10WV		
C112			CE04KW0J102M	ELECTR0 1000UF 6.3WV		
C113,114			CK45FF1H103Z	CERAMIC 0.010UF Z		
C115,116			CE04KW1C471M	ELECTR0 470UF 16WV		
C117			CE04KW1V470M	ELECTR0 47UF 35WV		
C118			CE04KW1A101M	ELECTR0 100UF 10WV		
C119			CK45FF1H103Z	CERAMIC 0.010UF Z		
C120			CE04KW1V100M	ELECTR0 10UF 35WV		
C121			CE04KW1V470M	ELECTR0 47UF 35WV		
C122,123			CK45FF1H103Z	CERAMIC 0.010UF Z		
C124,125			CE04KW1A101M	ELECTR0 100UF 10WV		
C126,127			CE04KW1H010M	ELECTR0 1.0UF 50WV		
C128			CE04KW1V100M	ELECTR0 10UF 35WV		
C129			CE04KW1H010M	ELECTR0 1.0UF 50WV		
C131			CE04KW1C220M	ELECTR0 22UF 16WV		
C132			CK45FF1H103Z	CERAMIC 0.010UF Z		
C133			CE04KW1V100M	ELECTR0 10UF 35WV		
CN13			E10-3101-05	FLAT CABLE CONNECTOR		
E1	1F		E13-0446-05	PHONE JACK (4P) (LINE)		
E2 ,3	2E		E11-0192-05	PHONE JACK (MIC)		
E4	2E		E11-0191-05	PHONE JACK (PHONES)		
E5	1E		E11-0188-05	MINIATURE PHONE JACK (SYNCR0)		
L1 ,2			L39-0107-05	TRAP COIL		
X1			L78-0209-05	RESONATOR (4.194MHZ)		
CP1			R90-0202-05	MULTI-COMP 47KX4 J 1/6W		
CP2			R90-0228-05	MULTI-COMP 10KX5 J 1/6W		
R101,102			RD14GB2E330JTS	FL-PROOF RD 33 J 1/4W		
R246			RS14KB3A102J	FL-PROOF RS 1.0K J 1W		
R247,248			RS14KB3D331J	FL-PROOF RS 330 J 2W		
R249		*	RS14KB3A390J	FL-PROOF RS 39 J 1W		
R255		*	RD14GB2E222JTS	FL-PROOF RD 2.2K J 1/4W		
VR1			RO6-S123-05	POTENTIOMETER (200KX2) REC BAL		

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VR2 VR3 VR8			R10-5021-05 R10-3035-05 R12-3126-05	POTENTIOMETER(100K)REC LEVEL POTENTIOMETER(10K)PHONES LEVEL TRIMMING PBT.(10KB)METER NDB		
K1			SS1-2074-05	MAGNETIC RELAY		
D1 D1 D3 --35 D3 --35 D37 --46			1SS133 1SS176 1SS133 1SS176 1SS133	DIODE DIODE DIODE DIODE DIODE		
D37 --46 D49 D49 D51 D51			1SS176 1SS133 1SS176 1SS133 1SS176	DIODE DIODE DIODE DIODE DIODE		
D53 D53 D54 D54 D55			1SS133 1SS176 HZ55.1N(B2) RD5.1ES(B2) HZ55.6N(B2)	DIODE DIODE ZENER DIODE ZENER DIODE ZENER DIODE		
D55 D56 --59 D56 --59 D60 D60			RD5.6ES(B2) 1SS133 1SS176 HZ53.9N(B2) RD3.9ES(B2)	ZENER DIODE DIODE DIODE ZENER DIODE ZENER DIODE		
D61 D61 D62 D62 D63 --69			HZ511N(B2) RD11ES(B2) HZ520S(B2) RD20JS(B2) 1SS133	ZENER DIODE ZENER DIODE ZENER DIODE ZENER DIODE DIODE		
D63 --69 IC2 IC2 IC3 IC3			1SS176 M5218P-A NJM4558D-A MB84066BM UPD4066BC	DIODE IC(OP AMP X2) IC(OP AMP X2) IC(BILATERAL SWITCH X4) IC(BILATERAL SWITCH X4)		
IC4 IC4 IC5 --7 IC5 --7 IC8			M5218P-A NJM4558D-A M5218P NJM4558D NJM072BD	IC(OP AMP X2) IC(OP AMP X2) IC(OP AMP X2) IC(OP AMP X2) IC(FET OP AMP X2)		
IC8 IC9 --11 IC12 IC13 IC14			UPC4072C TD62554S NJM555D * CXP5096--003S AN7812F	IC(OP AMP X2) IC(4CH TRANSISTOR ARRAY) IC(TIMER) IC(MICROPROCESSOR) IC(VOLTAGE REGULATOR/ +12V)		
IC14 IC15 IC16 IC17 IC18		*	UPC7812HF * M5F78M09L * M5F79M09L TA78L006AP TA79L006P	IC(VOLTAGE REGULATOR/ +12V) IC(VOLTAGE REGULATOR/ +9V) IC(VOLTAGE REGULATOR/ -9V) IC(VOLTAGE REGULATOR/ +6V) IC(VOLTAGE REGULATOR/ -6V)		
IC19 IC19 Q1 ,2 Q1 ,2 Q3 -10			NJM78L05A UPC78L05J 2SC2878(B) 2SD1302(S,T) 2SC1740S(Q,R)	IC(VOLTAGE REGULATOR/ +5V) IC(VOLTAGE REGULATOR/ +5V) TRANSISTOR TRANSISTOR TRANSISTOR		

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Q3 -10 Q11 -12 Q13 -14 Q15 -16 Q15 -16			2SC945(A) (Q,P) 2SC2003(L,K) 2SA954(L,K) 2SC2878(B) 2SD1302(S,T)	TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR		
Q17 -22 Q17 -22 Q23 -26 Q23 -26 Q28			2SC1740S(Q,R) 2SC945(A) (Q,P) 2SA733(A) (Q,P) 2SA933S(Q,R) DTC124EN	TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR DIGITAL TRANSISTOR		
Q29 -30 Q29 -30 Q31 -32 Q33 -36 Q37 -40			2SA733(A) (Q,P) 2SA933S(Q,R) DTA124EN DTC124EN DTA124EN	TRANSISTOR TRANSISTOR DIGITAL TRANSISTOR DIGITAL TRANSISTOR DIGITAL TRANSISTOR		
Q43 -47 Q43 -47 Q48 Q49			2SC1740S(Q,R) 2SC945(A) (Q,P) 2SD1266(Q,P) 2SB941(Q,P)	TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR		
DOLBY NR UNIT (X30-1270-03)						
C1 -2 C3 -4 C5 -6 C7 -8 C9 -12			CE04KW1V100M CE04KW1H2R2M CE04KW1H3R3M CE04KW1V100M CF92FV1H222J	ELECTRO 10UF 35WV ELECTRO 2.2UF 50WV ELECTRO 3.3UF 50WV ELECTRO 10UF 35WV MF 2200PF J		
C13 -14 C15 -16 C17 -18 C19 -20 C21 -22			CF92FV1H392J CF92FV1H474J CF92FV1H154J CF92FV1H153J C90-1349-05	MF 3900PF J MF 0.47UF J MF 0.15UF J MF 0.015UF J NP-ELEC 1UF 50WV		
C23 -24 C25 -26 C27 -28 C29 -30 C31 -32			CF92FV1H224J CF92FV1H683J CF92FV1H563J C90-1349-05 CF92FV1H562J	MF 0.22UF J MF 0.068UF J MF 0.056UF J NP-ELEC 1UF 50WV MF 5600PF J		
C33 -34 C35 -36 C37 -38 C39 -40			CF92FV1H103J CF92FV1H152J CF92FV1H122J CE04KW1A470M	MF 0.010UF J MF 1500PF J MF 1200PF J ELECTRO 47UF 10WV		
L1 -2			L79-0189-05	LC FILTER		
R5 -6 R7 -8 R9 -10 R11 -12 R23 -24		*	RN14BK2C1781FTS RN14BK2C2152FTS RN14BK2C1001FTS RN14BK2C1622FTS RN14BK2C7501FTS	RN 1.78K F 1/6W RN 21.5K F 1/6W RN 1.00K F 1/6W RN 16.2K F 1/6W RN 7.50K F 1/6W		
R25 -26 R27 -28 R49		*	RN14BK2C6810FTS RN14BK2C9091FTS RN14BK2C1303FTS	RN 681.0 F 1/6W RN 9.09K F 1/6W RN 130K F 1/6W		
IC1 Q1 -4 Q1 -4		*	CX20188 2SC1740S(Q,R) 2SC945(A) (Q,P)	IC(DOLBY B/C) TRANSISTOR TRANSISTOR		
RECORD/PLAYBACK UNIT (X87-1030-06)						
C1 -2			CF92FV1H274J	MF 0.27UF J		

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C3 .4			CE04KW1V100MEL	ELECTR0 10UF 35WV		
C5 .6			CC45FSL1H100D	CERAMIC 10PF D		
C7 .8			CF92FV1H272J	MF 2700PF J		
C9 .10			CF92FV1H463J	MF 0.068UF J		
C11 .12			CE04KW1V100MEL	ELECTR0 10UF 35WV		
C13 .14			CF92FV1H822J	MF 8200PF J		
C15 .16			CF92FV1H472J	MF 4700PF J		
C17 .18		*	Q009FS1H331JZS	POLYSTY 330PF J		
C19 .20			CF92FV1H822J	MF 8200PF J		
C21 .22			CF92FV1H272J	MF 2700PF J		
C23 .24			CF92FV1H182J	MF 1800PF J		
C25 .26			CF92FV1H122J	MF 1200PF J		
C27 .28			Q009FS1H101JZS	POLYSTY 100PF J		
C29 .32			CK45FF1H103Z	CERAMIC 0.010UF Z		
C35 .36		*	Q009FS1H391JZS	POLYSTY 390PF J		
C37 .38			CE04KW1A221MEL	ELECTR0 220UF 10WV		
C39 .40			CF92FV1H102J	MF 1000PF J		
C41 .42			CF92FV1H153J	MF 0.015UF J		
C43 .44			CE04KW1H2R2MEL	ELECTR0 2.2UF 50WV		
C45 .46			CF92FV1H223J	MF 0.022UF J		
C47 .48			CF92FV1H102J	MF 1000PF J		
L1 .2			L40-2238-29	SMALL FIXED INDUCTOR(22MH,G)		
R5 .6		*	RN14BK2C6192FTS	RN 61.9K F 1/6W		
R7 .8		*	RN14BK2C1102FTS	RN 11.0K F 1/6W		
R11 .12		*	RN14BK2C2612FTS	RN 26.1K F 1/6W		
R25 .26		*	RN14BK2C9090FTS	RN 909.0 F 1/6W		
R29 .30		*	RN14BK2C5112FTS	RN 51.1K F 1/6W		
R31 .32		*	RN14BK2C1961FTS	RN 1.96K F 1/6W		
R41 .42		*	RN14BK2C1470FTS	RN 147.0 F 1/6W		
R43 .44		*	RN14BK2C1963FTS	RN 196K F 1/6W		
R45 .46			RN14BK2C9091FTS	RN 9.09K F 1/6W		
VR1 -4			R12-3058-05	TRIMMING PNT. (20K)REC/PB LEVLE		
D1 .2			1SS176	DIODE		
IC1		*	TX3010N	IC(REC AMP)		
IC2		*	MS220P	IC(OP AMP X2)		
Q1 -6			2SC1685(R,S)	TRANSISTOR		
Q1 -6			2SC1740S(O,R)	TRANSISTOR		
Q1 -6			2SC945(A)(Q,P)	TRANSISTOR		
BIAS OSC UNIT (X87-1270-00)						
C1 .2			CK45FB1H561K	CERAMIC 560PF K		
C3 .4			C91-0357-05	POLYSTY 150PF J		
C5 .6			C91-0860-05	POLYSTY 470PF K		
C7 .8			CF92FV1H104J	MF 0.10UF J		
C9 .10			CF92FV1H223J	MF 0.022UF J		
C11 .12			CF92FV1H103J	MF 0.010UF J		
C13			CE04KW1V100M	ELECTR0 10UF 35WV		
C14			CC45FSL2H100D	CERAMIC 10PF D		
C15			Q093HP2A123J	MYLAR 0.012UF J		
C16			CE04KW1E101M	ELECTR0 100UF 25WV		
C17			CF92FV1H392J	MF 3900PF J		
C18			CF92FV1H562J	MF 5600PF J		
C19			CE04KW1H2R2M	ELECTR0 2.2UF 50WV		
C20			CE04KW1E101M	ELECTR0 100UF 25WV		

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C21 C22 C24 ,25 C26 C27			CE04KW1V100M CK45FF1H103Z CK45FF1H103Z CE04KW1V100M CK45FF1H103Z	ELECTRO 10UF 35WV CERAMIC 0.010UF Z CERAMIC 0.010UF Z ELECTRO 10UF 35WV CERAMIC 0.010UF Z		
L1 ,2 L3			L32-0369-05 L32-0373-05	BIAS OSCILATING COIL OSCILATING COIL		
R14 R15 VR1 ,2		*	RD14GB2E150JTS R92-0508-05 R12-3127-05	FL-PRNF RD 15 J 1/4W FUSE RESIST 22 G 1/4W TRIMMING PBT. (10KB) BIAS ADJ		
D1 D1 IC1 Q1 ,2			1SS133 1SS176 UPC1297CA 2SD863(E,F)	DIODE DIODE IC(DBL HX PRN SYSTEM) TRANSISTOR		
MECHANISM ASS'Y (D40-0835-05)						
3 4 5 6 7	2A 2A 2A 2B 1B		D15-0274-08 D16-0128-08 D03-0266-08 D10-0308-18 D10-2326-08	PULLEY ASSY BELT REEL DISK ASSY BRAKE LEVER (REC)		
8 9 10 11 12	1A 2B 2A 2B 1A	*	D10-1614-08 D14-0302-08 D10-0321-08 D10-2327-08 D10-0312-08	LEVER (DETECT) PINCH ROLLER ASSY ARM ASSY HEAD BASE ASSY LOCK LEVER		
13 15 17 18	2C 1B,2B 2A 2A,2B		D13-0080-08 D30-0012-08 D90-0012-04 D90-0020-04	GEAR (CAM) BRAKE STEEL BALL (Ø3) STEEL BALL (Ø2)		
19 20	2A 2A	*	E31-7088-08 E31-7087-08	CONNECTING WIRE (2P) E HEAD CONNECTING WIRE (6P) R/P HEAD		
21 22 23 24 25	2A 2A 2B 2A 2A	*	G01-2199-08 G01-1819-08 G01-2388-08 G01-2200-08 G01-2198-08	COMPRESSION SP (LOCK) TENSION SP (R/P HEAD) SP TENSION SP COMPRESSION SP (AZIMUTH)		
26 27 28	1B 1C 2A		G02-0095-08 G02-0096-08 G02-0386-08	FLAT SPRING (CASSETTE) FLAT SPRING (BACK TENSION) FLAT SPRING		
36 37 38 39 40	2A 2A 2A 1C 1C	*	J11-0059-08 J31-0830-08 J31-0831-08 J21-3176-08 J21-3177-08	CLAMPER COLLAR (R/P HEAD) COLLAR (E HEAD) MOUNTING HARDWARE (REEL DISK) MOUNTING HARDWARE (CAM GEAR)		
41 44 45	1B 2A 1B		J21-3785-08 J31-0269-08 J31-0268-08 J61-0307-05	MOUNTING HARDWARE (LEAF SW) COLLAR (LOCK LEVER) COLLAR (LEAF SW) WIRE BAND		
47 48 49 50 51	2A 2B 1A 1B 2A		N10-2090-46 N24-3020-45 N24-3025-45 N24-3030-45 N19-1123-08	HEXAGON NUT (M9) E TYPE RETAINING RING E TYPE RETAINING RING E TYPE RETAINING RING FLAT WASHER		

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52	2A		N19-1122-08	FLAT WASHER		
66	1B, 1C		N19-0335-08	FLAT WASHER (Ø3.1)		
67	2A		N19-0334-08	FLAT WASHER (Ø1.8)		
A	1B, 2B		N09-1233-08	SCREW (M2X4)		
C	1C		N09-1228-08	SCREW (M2.5X5)		
E	1C		N09-1232-08	SCREW (M2.6X3)		
F	1B		N09-1240-08	SCREW (M2.5X4)		
G	1C, 2C		N09-1241-08	SCREW (M2X3)		
H	2A		N09-1971-08	SCREW (M2.5X8)		
J	2C		N09-1230-08	SCREW (M2.5X20)		
K	2A		N09-1323-08	SCREW (M2.5X3.5)		
L	2A		N09-1970-08	AZIMUTH SCREW (M2)		
SW1 .2	1B		S46-1051-08	LEAF SWITCH (CR02, METAL)		
SW3 -5	1C		S46-1017-08	LEAF SWITCH (POSITION)		
SW6	1B		S46-1051-08	LEAF SWITCH (REC)		
SW7	1C		S46-1019-08	LEAF SWITCH (CASSETTE IN)		
81	2A		T32-0304-05	ERASE HEAD		
82	2A		T34-0318-05	REC/PLAY HEAD		
M1	1C		T42-0467-08	DC MOTOR ASSY (REEL)		
M2	1C		T42-0017-08	DC MOTOR ASSY (ASSIST)		
M3	2C		T43-0054-08	DC MOTOR ASSY (CAPSTAN)		
32	2B		H12-0106-08	PROTECTION BOARD		
91	1B	*	WD2-0905-08	SENSOR PCB ASSY		

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M: Other Areas

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X: Australia

⚠ indicates safety critical components.

For Service Manuals Contact
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KX-5010

SPECIFICATIONS

Track system:	4-Track, 2-channel stereo
Recording system:	AC Bias System
Heads:	Record/play (amorphous alloy) × 1 Erase (double-gap ferrite) × 1
Motors:	Capstan (FG servo direct-drive motor) × 1 Reel (DC motor) × 1 Mechanism drive (DC motor) × 1
Wow & flutter:	0.025% (W.R.M.S.) 0.075% (DIN)
Fast-winding time:	About 80 seconds (C-60)
Frequency response	
Normal tape:	20 – 18,000 Hz ±3 dB
CrO2 tape:	20 – 19,000 Hz ±3 dB
Metal tape:	20 – 21,000 Hz ±3 dB
Signal-to-noise ratio	74 dB (Dolby C-type NR ON) 67 dB (Dolby B-type NR ON) 59 dB (Dolby NR OFF)
Harmonic distortion	0.8% (at 1 kHz, 0 VU with metal tape)
Input jacks	
LINE IN:	77.5 mV/50 k ohms
MIC:	0.3 mV/600 ohms
Output jacks	
LINE OUT:	490 mV/3 k ohms
Headphones:	3 mW/8 ohms
General	
Power consumption:	25 W
Dimensions:	W: 440 mm (17-5/16) H: 127 mm (5) D: 321 mm (12-5/8)
Weight:	6.4 kg (14.1 lb) (net)