

# TEAC®




## SERVICE MANUAL

# V-480

Stereo Cassette Deck

### CAUTION

△Parts marked with this sign are safety critical components. They must always be replaced with identical components—refer to the appropriate parts list and ensure exact replacement.

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## 1 SPECIFICATIONS AND SERVICE DATA

### SPECIFICATIONS

Track System 4-track, 2-channel stereo  
2 Heads Erase, record/playback  
Type of Tape Cassette tape, C-60 and C-90 (philips type)  
Tape Speed 4.8cm/s (1-7/8 ips)  
Input (level and impedance)  
    LINE IN :Specified input level: -9dB (275 mV)/50kohms  
            Min.input level: -19dB (87 mV)  
Output (level and load impedance)  
    OUTPUT: Spec. output level:  
            -3dB (548mV)/50k ohms  
    PHONES: -19dB (86.9mV)/8 ohms  
Equalization  
    METAL: 3180  $\mu$ S+ 70  $\mu$ S  
    CrO2: 3180  $\mu$ S+ 70  $\mu$ S  
    NORMAL: 3180  $\mu$ S+ 120  $\mu$ S  
Head Configuration  
    1/2-track, 1-channel erase head  
    1/4-track, 2-channel record/playback head  
Motor 1 DC servo motor  
Bias Frequency 100kHz  
Operation Position Horizontal  
Power Requirements  
    120/220/240 V AC,50/60Hz (General Export Models)  
    120 V AC,60Hz (U.S.A/Canada)  
    220 V AC,50Hz (Europe)  
    240 V AC,50Hz (U.K./Australia)  
    100 V AC,50Hz (JAPAN)  
Power Consumption 10W  
Weight 4.3kg (9.5 lbs)  
Dimensions (W\*H\*D)  
    435\*127\*262mm  
    (17-1/8"\*5"\*10-5/16")

### SERVICE DATA

#### MECHANICAL

Tape Speed Deviation 3,000 Hz +90,-90 Hz  
Tape Speed Drift 45 Hz  
Wow and Flutter  
    Playback: 0.30 % (WRMS)  
Pinch Roller Pressure 250 g to 470 g (8.8oz to 16.5 oz)  
Reel Torque  
    Take-up: 35 to 70 g-cm (0.49 to 0.97 oz-inch)  
    Supply: 2.5 to 6 g-cm (0.035 to 0.083 oz-inch)  
    F.F: 70 to 160g-cm (0.97 to 2.22 oz-inch)  
    REW: 70 to 160g-cm (0.97 to 2.22 oz-inch)  
Fast Wind Time  
    125 sec or less for MIT-5511 (C-60)  
Auto End-stop Time 5 sec. or less

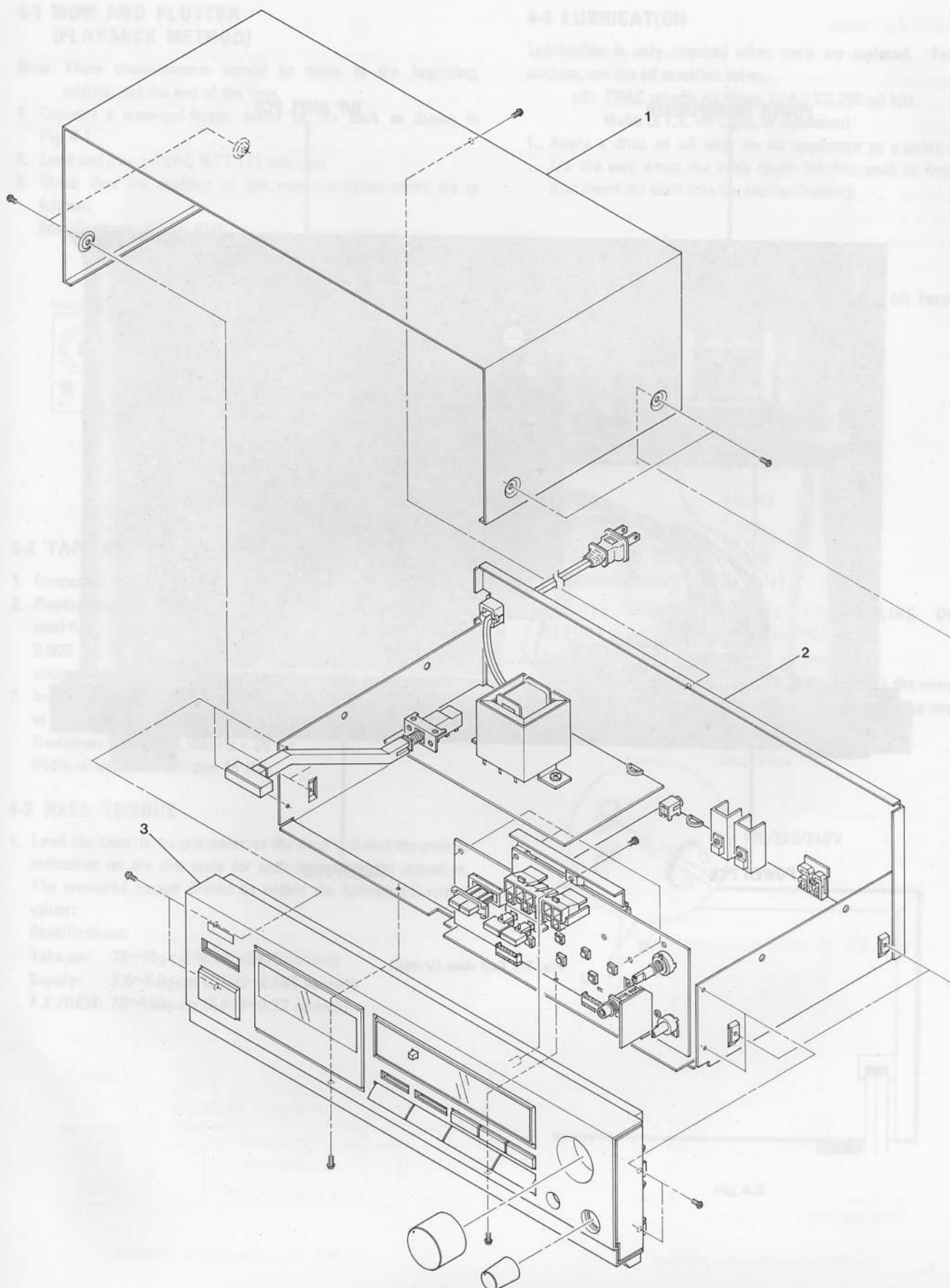
#### ELECTRICAL

Frequency Response  
    See Figs. 5-7 & 5-8  
Signal-to-noise Ratio  
    Playback: NORMAL: 46 dB min.  
    Record/playback:  
        METAL, CrO2: 45 dB min.  
        NORMAL: 44 dB min.  
Erase Efficiency  
    65 dB min. at 1kHz (measured with input 10 dB higher  
    than the specified input level).  
Channel Separation 30 dB min. at 1kHz  
Adjacent Track Crosstalk 40 dB min. at 125 Hz  
Total Harmonic Distortion 2.0% or less with NORMAL,  
    2.5% or less with CrO2, METAL

#### NOTES:

Improvements may result in SPECIFICATIONS AND SERVICE  
DATA changes.  
Value of "dB" in the data refers to 0 dB (0.775 V),  
expect where Specified.

## 2 CASE AND FRONT PANEL REMOVAL



## 3 PARTS LOCATION

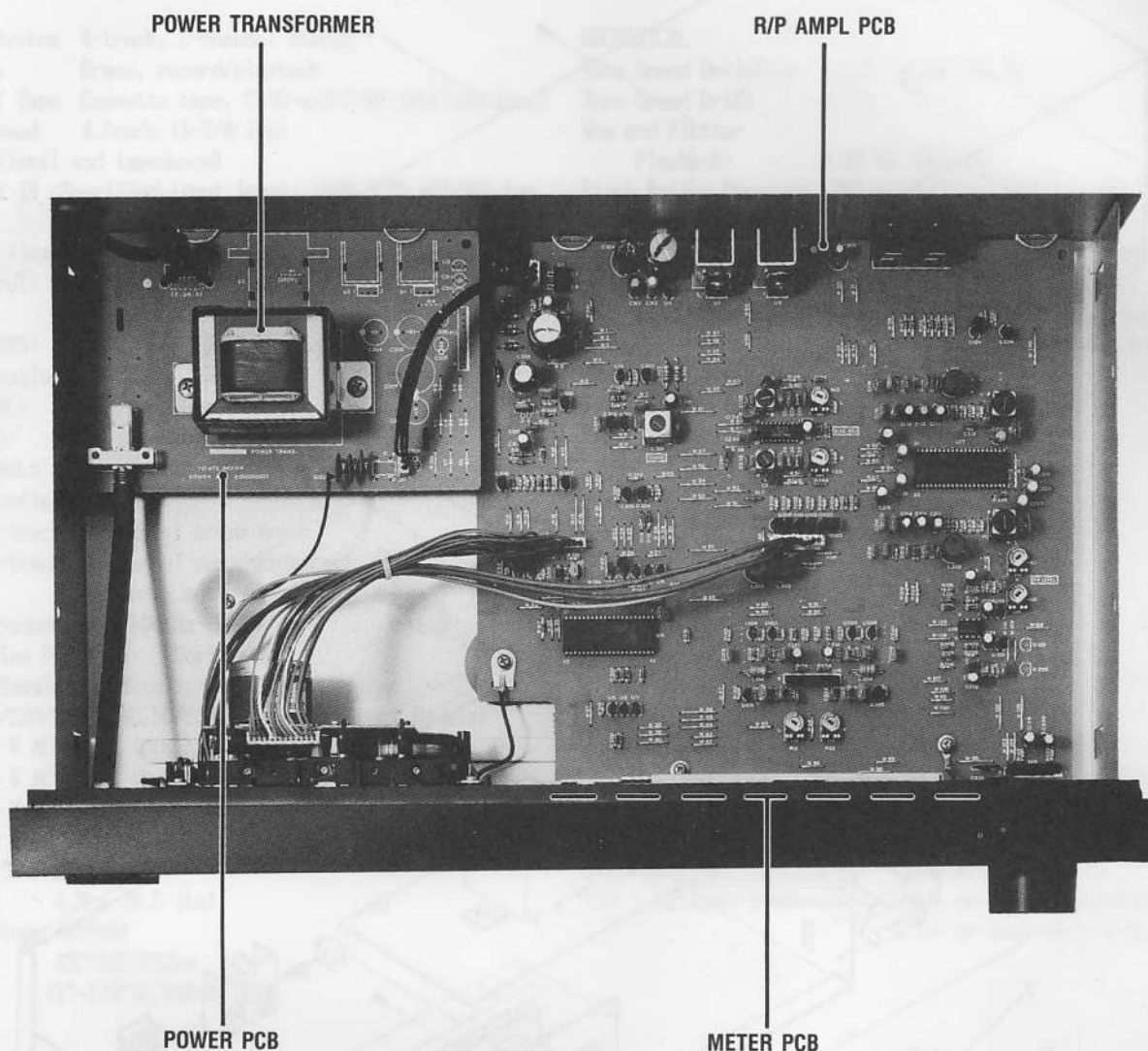


Fig. 3-1 Top view (V-480)

## 4 MECHANICAL ADJUSTMENT AND CHECKS

### 4-1 WOW AND FLUTTER (PLAYBACK METHOD)

**Note:** These measurements should be made at the beginning, middle, and the end of the tape.

1. Connect a wow-and-flutter meter to the deck as shown in Fig. 4-1.
2. Load and play a TEAC MTT-111 test tape.
3. Check that the readings on the wow-and-flutter meter are as follows.

Specifications: 0.35% RMS

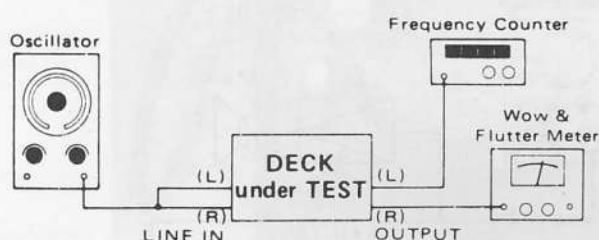


Fig. 4-1

### 4-2 TAPE SPEED

1. Connect a frequency counter to the deck as shown in Fig. 4-1.
2. Playing the mid portion of an MTT-111 test tape adjust the semi-fixed resistor on capstan motor so that tape speed becomes  $3,000 \text{ Hz} \pm 5 \text{ Hz}$ . An insulated and non-metallic flat-head screwdriver should be used for this adjustment.
3. In play mode, check that the following values are obtained at the beginning and at the end of the tape.

Deviation:  $3,000 \text{ Hz} \pm 30 \text{ Hz}$

Width of deviation: Within 45 Hz

### 4-3 REEL TORQUE

1. Load the cassette torque meter on the deck and read the pointer indication on the dial scale for each tape transport operation. The measured torque should be within the following specified values:

Specifications:

Take-up:  $35 \sim 70 \text{ g-cm}$  ( $0.49 \sim 0.970 \text{ oz-inch}$ )

Supply:  $2.5 \sim 6.0 \text{ g-cm}$  ( $0.035 \sim 0.083 \text{ oz-inch}$ )

F.F./REW:  $70 \sim 160 \text{ g-cm}$  ( $0.970 \sim 2.22 \text{ oz-inch}$ )

### 4-4 LUBRICATION

Lubrication is only required when parts are replaced. For this purpose, use the oil specified below.

oil: TEAC spindle oil (from TEAC TZ-255 oil kit),

Mobil D.T.E. oil Light, or equivalent

1. Apply a drop of oil with an oil applicator to a point about 1/3 the way down the shaft (from the free end) of flywheel, then insert the shaft into the capstan housing.

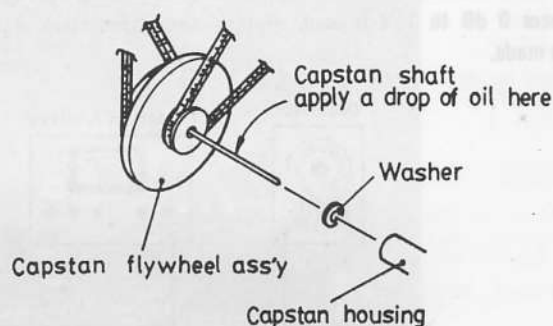


Fig. 4-2

### 4-5 VOLTAGE CONVERSION (General Export Models only)

1. ALWAYS DISCONNECT THE POWER LINE CORD BEFORE MAKING THESE ADJUSTMENTS!
2. Locate the voltage selector on the rear panel.
3. Using a regular screwdriver, turn the selector until the numerals corresponding to the voltage requirements of your area appear.

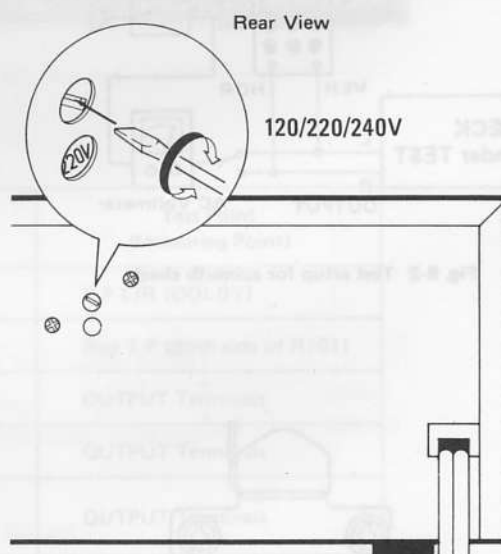


Fig. 4-3

## 5 ELECTRICAL ADJUSTMENT AND CHECKS

### 5-1 PRECAUTIONS

1. Before performing adjustments and checks clean and demagnetize the entire tape path.
2. Make sure the deck is properly set for the voltage in your locality.
3. In general, adjustments and checks are made in the order of L-ch then R-ch. Double REF. Nos. indicate L-ch/R-ch. (Example: R11/R21)
4. 0 dB is referenced to 0.775 V. If an AC voltmeter that references 0 dB to 1 V is used, appropriate compensation should be made.
5. The AC voltmeter used in the procedures must have an input impedance of 1 M-ohms or more.
6. Note the "Deck settings" at the top of each chart. The settings apply to all check for a specific chart unless explicitly stated otherwise.
7. Input terminals and measuring points at each step are the same as previous step, otherwise specified.

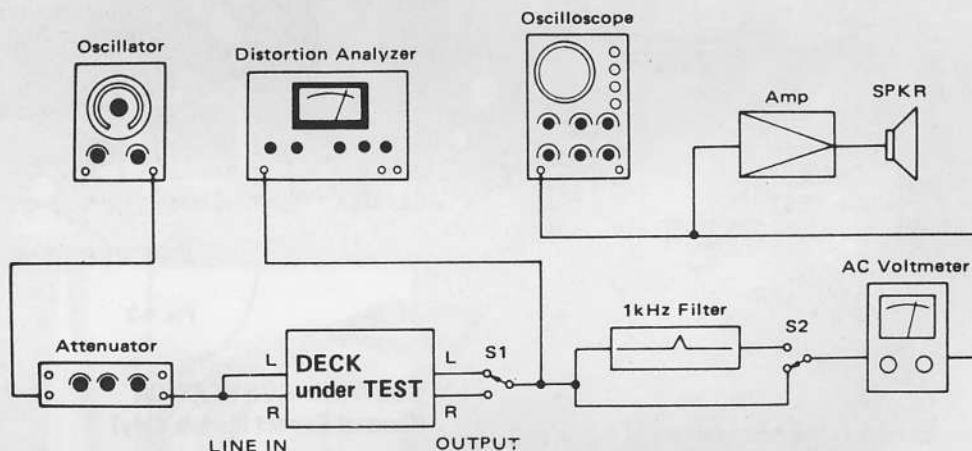


Fig. 5-1 Basic test setup

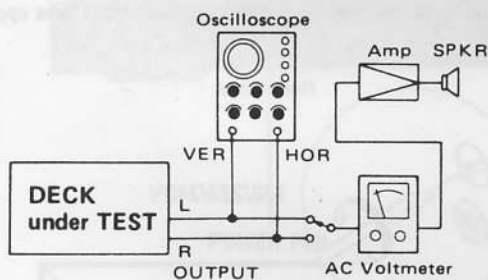


Fig. 5-2 Test setup for azimuth check

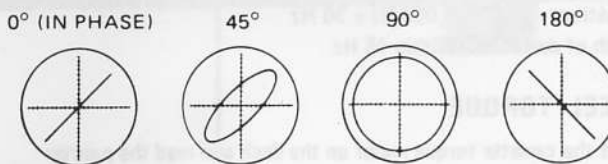


Fig. 5-3 Confirming phase relationship

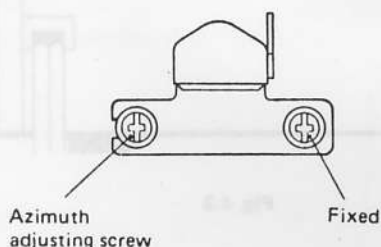


Fig. 5-4 Azimuth screw location

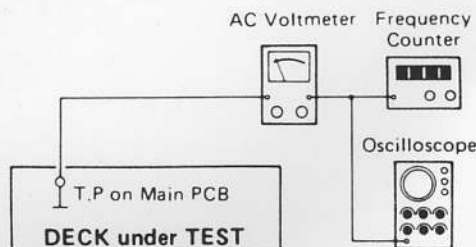
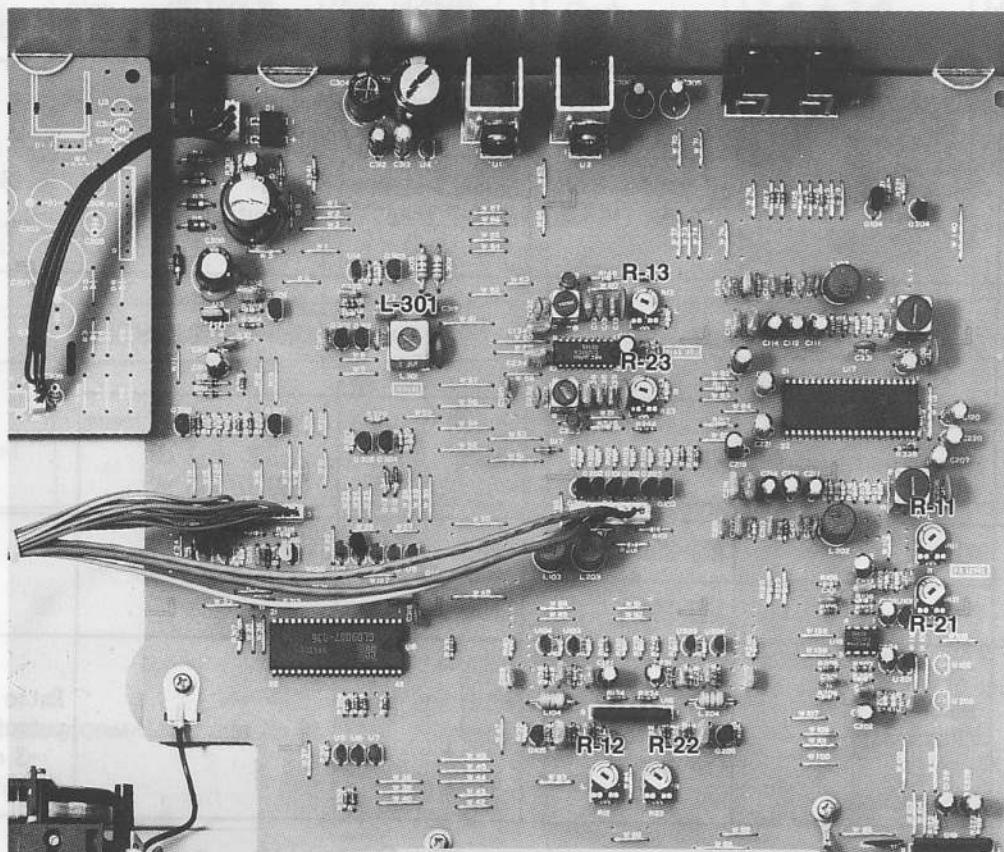


Fig. 5-5 Test setup for bias adjustment





Function		Adjustments	Test Point (Measuring Point)
Specified output level		R11/R21	T.P L/R (DOLBY)
Bias OSC		L301	Bias T.P (Both side of R101)
Record Bias	NORMAL	R13/R23	OUTPUT Terminals
Record level	NORMAL	R12/R22	OUTPUT Terminals
REL/PLAY Frequency Response		Check	OUTPUT Terminals

## 5-3 PLAYBACK PERFORMANCE

TEAC test tapes:

MTT-150C: For Dolby level calibration

MTT-256: For playback frequency response check for NORMAL

MTT-356: For METAL and CrO2

MTT-5511: For S/N check with NORMAL

Deck settings:  
DOLBY NR sw: OUT

ITEM	SETTING	INPUT SIGNAL	ADJUST (or CHECK)	MEASURING POINT: RESULT	REMARKS
1. REC/PLAY head azimuth	Connection: Fig. 5-2	MTT-150C	CHECK	OUTPUT: Phase: within 45°	Refer to Fig. 5-3
		MTT-256 (10 kHz)	Azimuth screws or R-P head (Fig. 5-4)	OUTPUT: Max. output at L & R-ch's (on VTVM)	
2. Specified output level	Connection: Fig. 5-1	MTT-150C	R11/R21	T.P. (DOBLY) 245mV (-10dB)	
	Connection: Fig. 5-1	MTT-150C	Check	OUTPUT: -3dB $\pm$ 1 dB (489 to 615 mV)	
3. Frequency response	NORMAL	MTT-256	Check	OUTPUT: Fig. 5-7	
	CrO2	MTT-356	Check		
4. Signal-to-noise ratio S/N	Tape SW: Normal Play mode	MTT-5511 (Playing a Lead-er tape)	Check	46 dB min.	Ratio of spec. output level -3 dB to noise

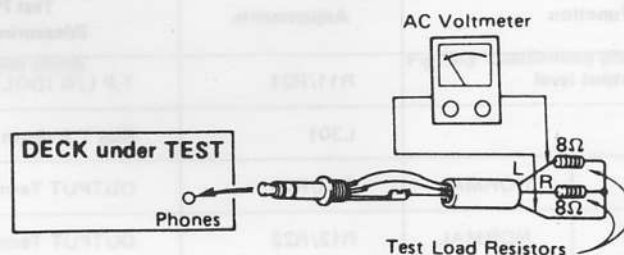


Fig. 5-6 Test setup for headphone check



## 5-4 MONITOR PERFORMANCE

Deck settings:  
RECORD-PAUSE mode  
DOLBY NR sw: OUT

ITEM	SETTING	INPUT SIGNAL	ADJUST (or CHECK)	MEASURING POINT: RESULT	REMARKS
5.Min. input level	RECORDING LEVEL cont (L/R): MAX	MIC:400Hz/-67 dB (346 $\mu$ V) LINE IN :400Hz/ -19 dB (86.9mV)	Check	OUTPUT: -3 dB $\pm$ 3 dB (388mV to 775mV)	MIC min. input level LINE min. input level
6.Specified LINE input level	_____	LINE IN: 400 Hz/-9 dB (275mV)	RECORDING LEVEL cont. (L/R)	OUTPUT: -3dB $\pm$ 1dB (489 to 615mV)	
IMPORTANT:Do not change the setting of the RECORD LEVEL controls after establishing setting as above					
7.Headphone output level	Connection:Fig. 5-6	LINE IN: 400Hz/-9 dB (275mV)	Check	PHONES: -19 dB $\pm$ 3dB (61.5mV to 122mV)	8 ohm load

Tape: MTT-256 (NORMAL)

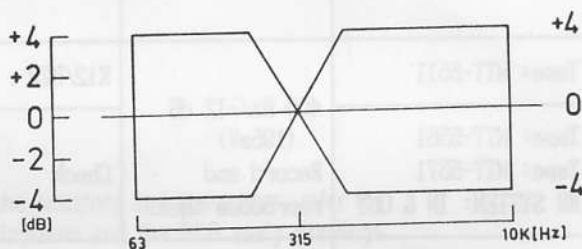


Fig. 5-7 Playback frequency response

Tape: MTT-5511 (NORMAL)  
Tape: MTT-5561 (CrO<sub>2</sub>)  
Tape: MTT-5571 (METAL)

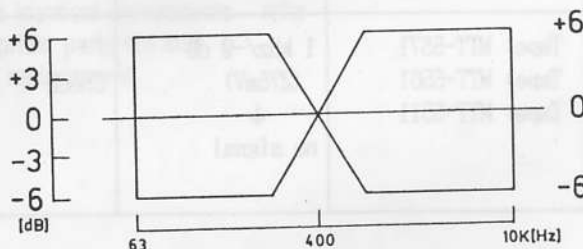


Fig. 5-8 Overall frequency response (Dolby NR: IN)

## 5-5 RECORDING PERFORMANCE

Deck settings:

NR SYSTEM sw: OUT

RECORD cont. (L/R): Spec. position (item 5)

TEAC recording test tapes

MTT-5571: For METAL

MTT-5561: For CrO2

MTT-5511: For NORAML

ITEM	SETTING	INPUT SIGNAL	ADJUST (or CHECK)	MEASURING POINT: RESULT	REMARKS
8. BIAS osc. frequency	Connection: Fig. 5-5 Tape: MTT-5511 RECORD/PAUSE mode	no signal	L301	Bias TP (Both side of R101) 100 kHz	Refer to Fig. 5-5
9. Record bias	Connection: Fig. 5-1 Tape: MTT-5511 RECORD/PLAY mode	LINE IN: 400 Hz & 10 kHz Alternately/ -42dB (6.15mV) Record and reproduce them.	R13/R23	OUTPUT: Nearly equal level at both frequencies	Repeat if the result is unsatisfactory
10. BIAS FINE control check	Tape: MTT-5511 BIAS FINE cont: fully "-" position then fully "+" position	10 kHz/-42 dB (6.15mV)	Check	Measure output level (record playback) at "-" position then at "+" position Variation between "-" and "+" positions: 5 dB or more	
11. Record level	Tape: MTT-5511	400 Hz/-12 dB (195mV) Record and reproduce them.	R12/R22	-6 dB (388mV)	
	Tape: MTT-5561 Tape: MTT-5571 NR SYSTEM: IN & OUT		Check	-6 dB $\pm 1.5$ dB (327mV ~ 461mV)	
12. Overall frequency response	Tape: MTT-5511 Tape: MTT-5561 Tape: MTT-5571	Required frequencies: -42 dB (6.15mV)	Check	Standard: Fig. 5-8	
13. Overall S/N ratio	Tape: MTT-5571 Tape: MTT-5561 Tape: MTT-5511	1 kHz/-9 dB (275mV) ↓ no signal	Check	OUTPUT: 45 dB min. [METAL, CrO2] 44 dB min. [NORMAL]	Ratio of specified output level: -3dB to noise

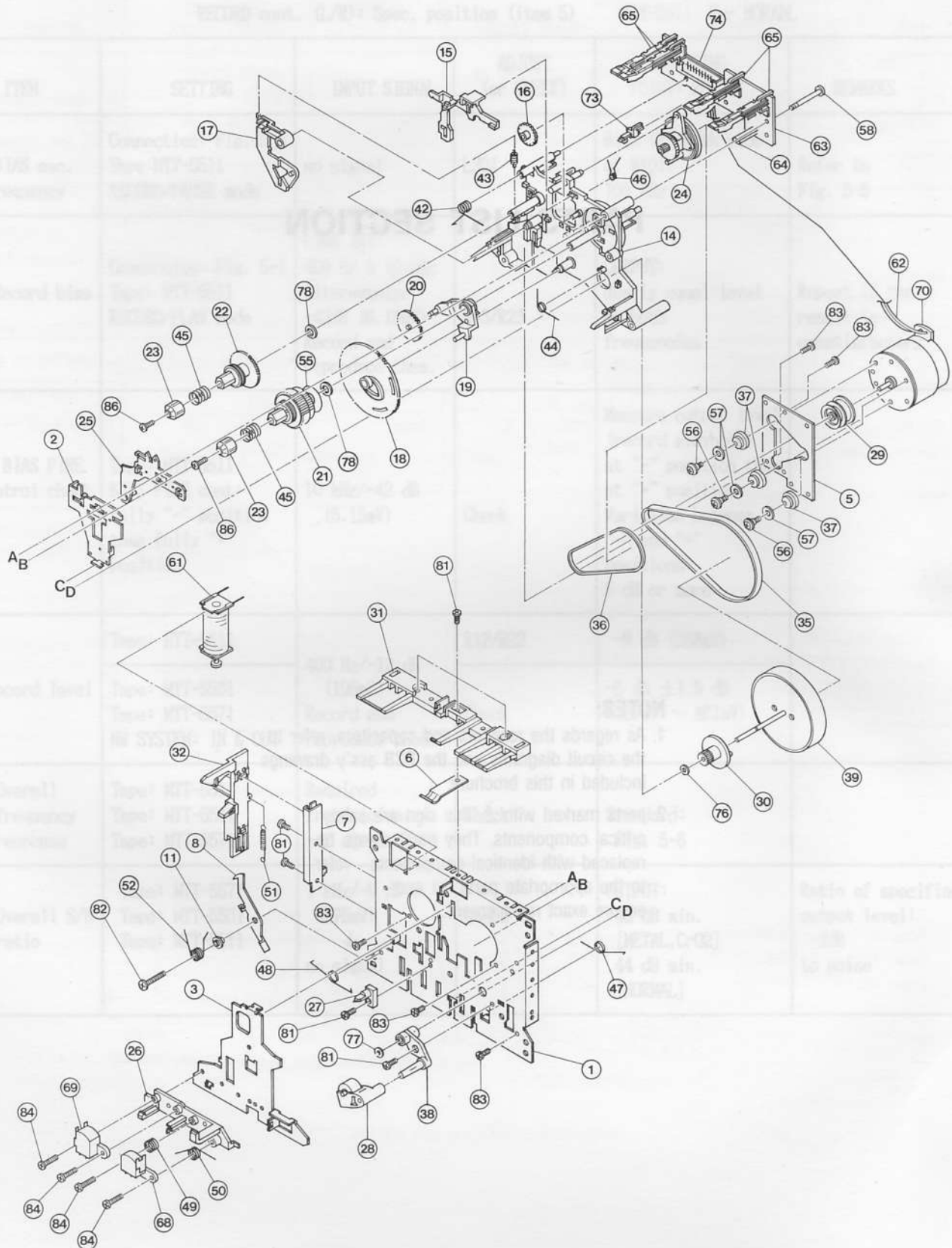
## PARTS LIST SECTION

### NOTES:

1. As regards the resistors and capacitors, refer to the circuit diagrams and the PCB ass'y drawings included in this brochure.
2. parts marked with  $\triangle$  this sign are safety critical components. They must always be replaced with identical components - refer to the appropriate parts list and ensure exact replacement.

## 6 EXPLODED VIEWS AND PARTS LIST

### EXPLODED VIEW-1



## EXPLODED VIEW - 1

REF.NO.	PARTS NO.	DESCRIPTION	REMARKS
1-1	9278295000	CHASSIS	
1-2	9278295100	SHIFT LEVER	
1-3	9278295200	HEAD CHASSIS	
1-5	9278295400	MOTOR BKT	
1-6	9278295500	PACK SPRING	
1-7	9278301000	EJECT HOLDER (L)	
1-8	9278301100	EJECT LOCK ARM (L)	
1-11	9278301200	LOCK ARM COLLAR	
1-14	9278295600	MECHA BASE	
1-15	9278295700	BRAKE ARM	
1-16	9278295800	FF GEAR	
1-17	9278295900	TRIGGER ARM	
1-18	9278296000	PLAY CAM GEAR	
1-19	9278296100	PLAY ARM	
1-20	9278396200	PLAY GEAR	
1-21	9278396300	REEL ASSY (T)	
1-22	9278396400	REEL (S)	
1-23	9278396500	REEL CAP	
1-24	9278396600	CLUTCH ASSY	
1-25	9278396700	SELECT ARM	
1-26	9278396800	HEAD BASE	
1-27	9278396900	CASSETTE GUIDE	
1-28	9278397000	P ROLLER ASSY	
1-29	9278301300	MOTOR PULLEY	
1-30	9278297200	FLYWHEEL GEAR	
1-31	9278297300	SW PROTECTOR	
1-32	9278301400	EJECT LEVER (L)	
1-35	9278301500	DRIVE BELT $\phi 58.1 \times 3.5 \times 0.5t$	
1-36	9278301600	CLUTCH BELT $\phi 37.3 \times 1.2$	
1-37	9278225100	MOTOR CUSHION	
1-38	9278297800	HOUSING ASSY	
1-39	9278297900	FLYWHEEL	
1-42	9278298000	BRAKE ARM SPRING	
1-43	9278298100	TRIGGER ARM SPRING	
1-44	9278298200	PLAY ARM SPRING	
1-45	9278298300	REEL SPRING (B)	
1-46	9278298400	CLUTCH ARM SPRING	
1-47	9278298500	SHIFT LEVER SPRING	
1-48	9278298600	HEAD CHASSIS SPRING	
1-49	9278226000	HEAD SPRING	
1-50	9278298800	P ROLLER SPRING	
1-51	9278301700	EJECT LEVER SP (B)	
1-52	9278301800	EJECT LOCK ARM (L) SP	
1-55	9278298900	REFLECT SEAL	
1-56	9278227600	MOTOR SCREW	
1-57	9278229200	WASHER (B)	
1-58	9278299200	SPECIAL SCREW M2.6 $\times$ 24	
1-61	9278299300	SOLENOID ASSY	
1-62	9278301900	MOTOR WIRE	
1-63	9278299500	MECHA PCB	
1-64	9278299700	PHOTO REFLECTOR (NJL5165K)	
1-65	9278299600	REC SWITCH	
1-68	9278299800	RP HEAD (SS15R-AA4N1)	
1-69	9278300900	E HEAD (LE15A-C1)	
1-70	9278302000	MOTOR (EG530AD-2B)	



## EXPLODED VIEW - 1

REF.NO.	PARTS NO.	DESCRIPTION	REMARKS
1-73	9278300000	LEAF SWITCH (LSA-1114F)	
1-74	9278300100	PH CONNECTOR (S13B-PH-K-S)	
1-76	9278191600	POLYSLIDER WASHER 2.1*4*0.25t	
1-77	9278300300	POLYSLIDER WASHER 1.6*6*0.5t	
1-78	9279300400	TEFRON WASHER 4.1*6.5*0.25t	
1-81	9278229500	TAP TITE SCREW M2*4	
1-82	9278302100	BIND TAPPING SCREW M2*12	
1-83	9278300500	BIND TAPPING SCREW M2*6	
1-84	9278230300	BINDING SCREW M2*9.5	
1-86	9278300800	SPECIAL TAP TITE M1.7*6	

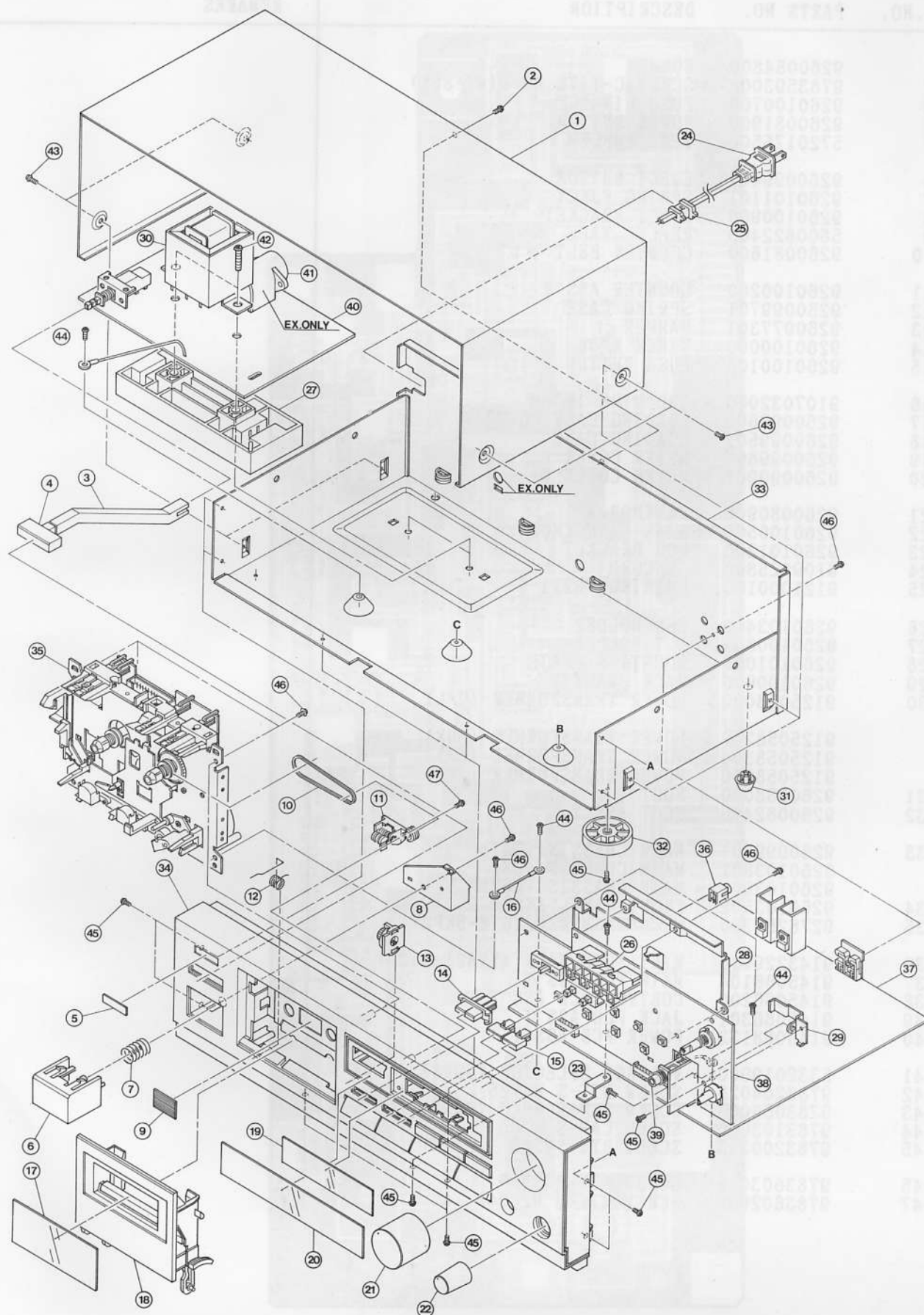
## INCLUDED ACCESSORIES (V-480)

REF.NO.	PARTS NO.	DESCRIPTION	REMARKS
	*91013773-01	OWNER'S MANUAL (ENGLISH)	
	*91013775-00	OWNER'S MANUAL (JPN)	
	*91013776-00	OWNER'S MANUAL (5 MULTI)	
	91090251-00	IN-OUTPUT CORD	

Parts marked with \* require longer delivery time.

[US]:U.S.A [E]:EUROPE [UK]:U.K. [C]:CANADA  
[A]:AUSTRALIA [GE]:GENERAL EXPORT [J]:JAPAN

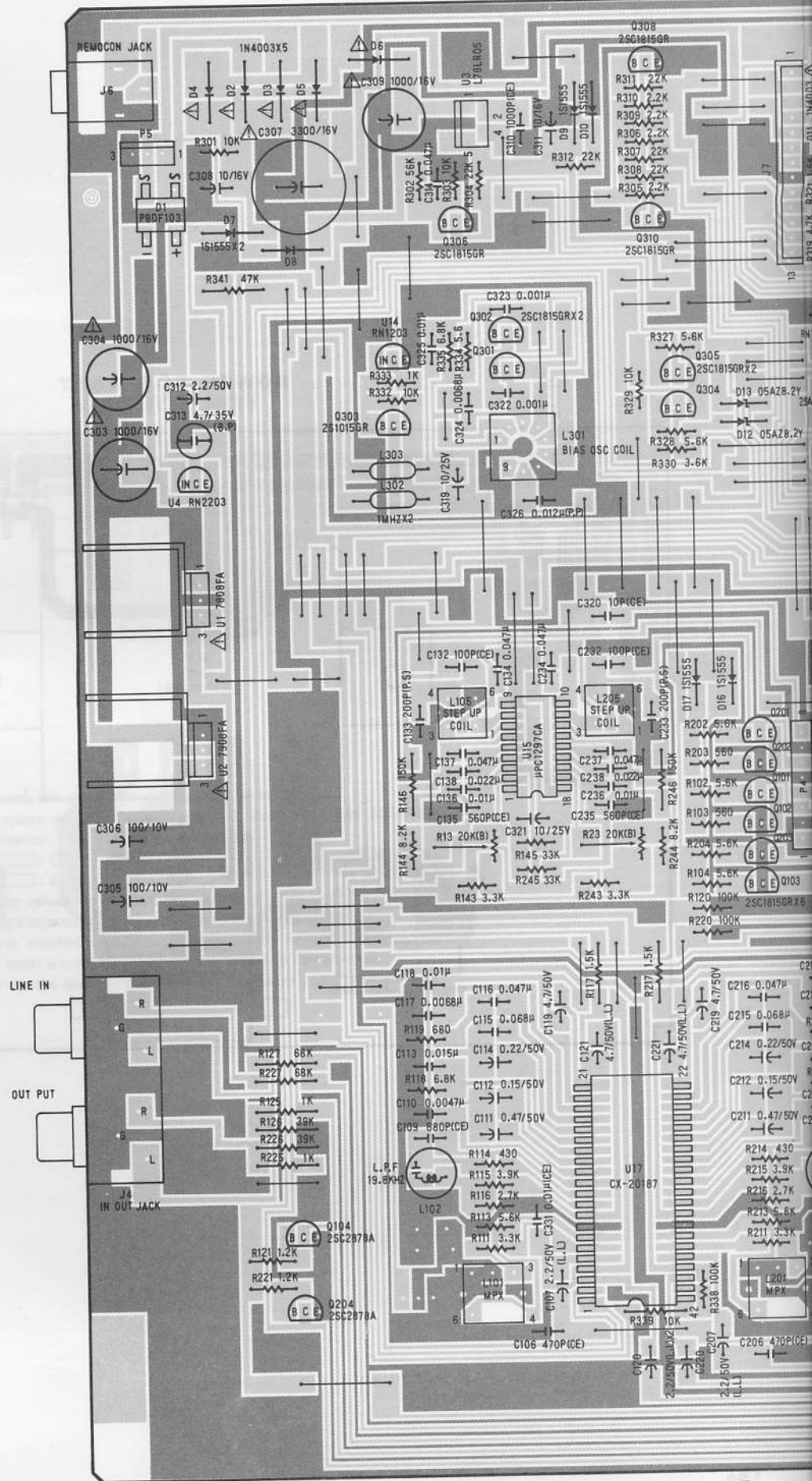
## EXPLODED VIEW-2



## EXPLODED VIEW - 2

F.NO.	PARTS NO.	DESCRIPTION	REMARKS
2-1	9260084800	BONNET	
2-2	9783593008	SCREW C-TITE M3*8 (NI-BLK)	
2-3	9260100700	PUSH LINKAGE	
2-4	9260081900	POWER BUTTON	
2-5	5720175500	TEAC EMBLEM	
2-6	9260099401	EJECT BUTTON	
2-7	9260101101	SPRING EJECT	
2-8	9260100900	EJECT BRACKET	
2-9	5800822400	REFLET TAPE	
2-10	9260081600	COUNTER BELT $\phi$ 57	
2-11	9260100200	COUNTER ASS'Y	
2-12	9260099701	SPRING CASE	
2-13	9260077301	DAMPER	
2-14	9260100000	TIMER KNOB	
2-15	9260100100	PUSH BUTTON	
2-16	9107032000	GND WIRE 100MM	
2-17	9260099600	LOADING CASE COVER	
2-18	9260099501	LOADING CASE	
2-19	9260099800	METER COVER A	
2-20	9260099901	METER COVER B	
2-21	9260080900	VR KNOB A	
2-22	9260100500	BIAS FINE KNOB	
2-23	9260101200	PCB BRACKET	
2-24	9109025800	AC CORD	
2-25	9121000100	BUSHING #2271	
2-26	9260103400	LED HOLDER	
2-27	9260100801	P.T HOLDER	
2-28	9260101000	MOUNTING PLATE	
2-29	9260100600	JACK BRACKET	
2-30	9125058000	POWER TRANSFORMER (U/L)	
	9125058200	POWER TRANSFORMER (EUR)	
	9125058300	POWER TRANSFORMER (EX)	
	9125058800	POWER TRANSFORMER (JPM)	
2-31	9260088000	FOOT	
2-32	9260082400	FOOT ASS'Y	
2-33	9260099301	MAIN CHASSIS (TAI)	
	9260103801	MAIN CHASSIS (EX)	
	9260103901	MAIN CHASSIS (EUR)	
2-34	9260103502	FRONT PANEL ASS'Y	
2-35	9278256300	MECHANISM R/P (GTE-5RP2)	
2-36	9143229000	MINIATURE JACK (YKB21-5129)	
2-37	9145066104	MAIN PCB ASS'Y	
2-38	9145066200	CONTROL PCB ASS'Y	
2-39	9145066301	JACK PCB ASS'Y	
2-40	9145068132	POWER PCB ASS'Y	
2-41	5332019900	VOLTAGE SELECTOR FS908E	
2-42	9783204025	SCREW BTT-S M4*25	
2-43	9783053006	SCREW CAP-S M3*6 (BLK)	
2-44	9783103006	SCREW CAP-S M3*6	
2-45	9783200306	SCREW BTT-SM3*6	
2-46	9783603008	SCREW BTT-P M3*8	
2-47	9783602608	SCREW BTT-P M2.6*8	

## MAIN PCB ASS'Y

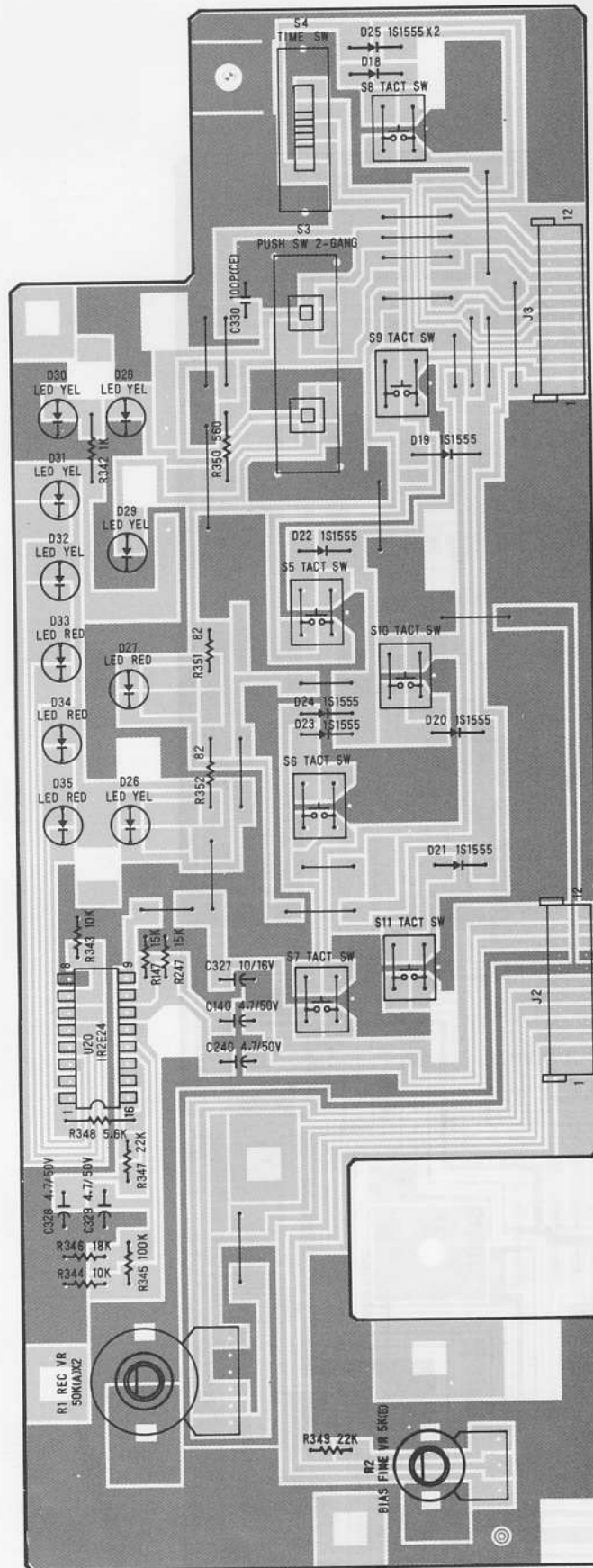




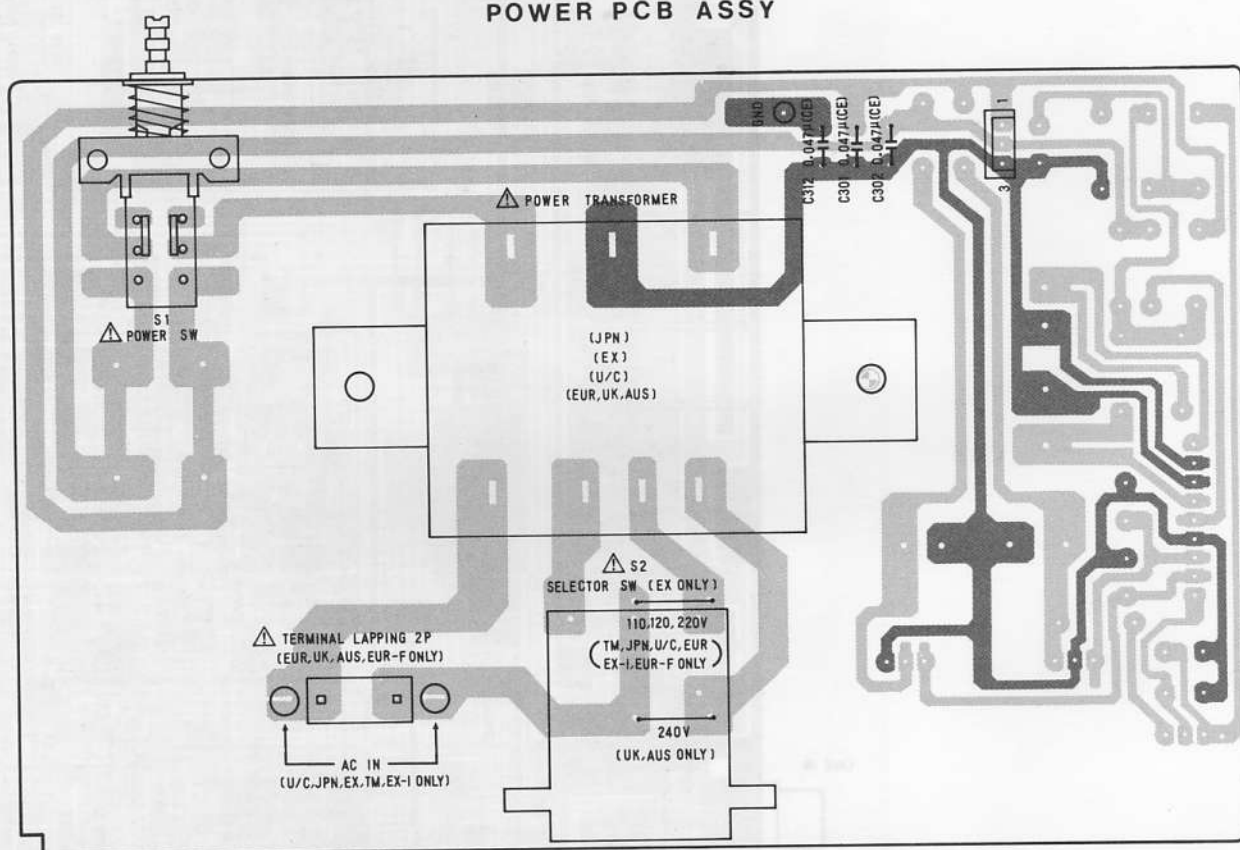
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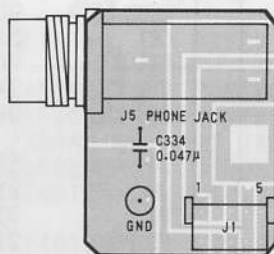
## CONTROL PCB ASSY



## POWER PCB ASSY



## JACK PCB ASSY



### NOTES

1. PC boards are shown viewed from foil side.
2. The colors on the PC board illustrations have the following significance:  
 : GND  
 : other
3. Resistor values are in ohms (k=kilo-ohms M=megohms).
4. All capacitor values are in microfarads (p=picofarads).
5.  $\Delta$  Parts marked with this sign are safety critical components. They must always be replaced with identical components. Refer to the appropriate parts list to ensure exact replacement.

## MAIN PCB ASS'Y (V-480)

REF.NO.	PARTS NO.	DESCRIPTION
	91450661-04	MAIN PCB ASS'Y
	91550661-02	MAIN PCB
U1	91670142-00	IC NJM7808FA
U2	91670143-00	IC NJM7908FA
U3	52204398-00	IC L78LR05D
U4 U5	91630111-20	TR. RN2203 T.P
U6	91670145-00	IC GLD9007-036
U7	91630111-20	TR. RN2203 T.P
U8	91633103-20	TR. RN1203 T.P
U9-U11	91630111-20	TR. RN2203 T.P
U13 U14	91633103-20	TR. RN1203 T.P
U15	91670128-00	IC uPC1297CA
U16	91670121-00	IC NJM4558S
U17	52204270-00	IC CX-20187
U18	91670140-00	IC uPC4570C
U19	91670121-00	IC NJM4558S
U101 U201	91633103-20	TR. RN1203 T.P
U103 U203	91633103-20	TR. RN1203 T.P
U104 U204	91633103-20	TR. RN1203 T.P
Q101 Q201	91633094-20	TR. 2SC1815GR
Q102 Q202	91633094-20	TR. 2SC1815GR
Q103 Q203	91633094-20	TR. 2SC1815GR
Q104 A204	91633106-20	TR. 2SC2878A
Q105 Q205	91633094-20	TR. 2SC1815GR
Q301 Q302	91633094-20	TR. 2SC1815GR
Q303	91630099-20	TR. 2SA1015GR
Q304-Q308	91633094-20	TR. 2SC1815GR
Q309	91633098-20	TR. 2SC2120Y (TP)
Q310	91633094-20	TR. 2SC1815GR
Q311	91633098-20	TR. 2SC2120Y (TP)

## MAIN PCB ASS'Y (V-480)

REF.NO.	PARTS NO.	DESCRIPTION
Q312	91630117-00	TR. 2SA970-BL
D1	91650217-00	BRIDGE RECTIFIER PBDF103
D2-D6	△91650205-08	DIODE 1N4003 P=10mm
D7 D8	91650202-50	DIODE 1S1555 P=52mm
D9 D10	91650202-50	DIODE 1S1555 P=52mm
D11	△91650205-08	DIODE 1N4003 P=10mm
D12 D13	91660325-51	ZENER DIODE 05AZ8.2Y
D14	91660314-51	ZENER DIODE 05AZ3Y P=52mm
D16 D17	91650202-50	DIODE 1S1555 P=52mm
L101 L201	91730025-01	LOW PASS FILTER MPX
L102 L202	91730027-00	LOW PASS FILTER 19.8KHZ
L103 L203	91220176-00	BIAS TRAP COIL 100KHZ
L104 L204	91220189-10	COIL 8.2mH P=14mm
L105 L205	91220184-00	STEP UP COIL
L301	91730039-00	OSC COIL 100KHZ
L302 L303	91220187-10	COIL 1mH P=12.5mm
CR1	53470120-00	OSC CERAMIC CST 4.19MGW
R11 R21	91120170-00	SEMI-FIXED VR 20K (B)
R12 R22	91120170-00	SEMI-FIXED VR 20K (B)
R13 R23	91120170-00	SEMI-FIXED VR 20K (B)
J4	53305066-00	4P PIN JACK (YKC21-0016A)
J6	91432290-00	MINIATURE JACK (YKB21-5129)
P1	91400980-05	BASE PIN 5P (B5P-MQ)
P2 P3	91400980-12	BASE PIN 12P (B12P-MQ)
P4	91431760-00	CONNECTOR PLUG 8P (B8B-EH-A)
P5	91431710-00	CONNECTOR PLUG 3P (B3B-EH-A)
C303	△91172735-00	C, ELEC 2200u 16V
C304	△91172581-00	C, ELEC 1000u 16V
C307	△91173021-00	C, ELEC 3300u 16V
C309	△91172581-00	C, ELEC 1000u 16V

## POWER PCB ASS'Y (V-480)

REF.NO.	PARTS NO.	DESCRIPTION
	9145068142	POWER PCB ASS'Y
	9155068001	POWER PCB
S1	△ 9135029300	POWER SWITCH
S1	△ 9135031000	POWER SWITCH (U/C)
S2	△ 5332019900	VOLTAGE SELECTOR FS908E
	△ 5327009600	TERMINAL LAPPING 2P
	△ 9125058001	POWER TRANSFORMER (U/C)
	△ 9125058200	POWER TRANSFORMER (EUR)
	△ 9125058300	POWER TRANSFORMER (EX)
	△ 9125058800	POWER TRANSFORMER (JPN)
C301 C302	△ 9115823120	C, CERAMIC 0.047u 50VZ (VF)
C312	△ 9115823120	C, CERAMIC 0.047u 50VZ (VF)

## CONTROL PCB ASS'Y (V-480)

REF.NO.	PARTS NO.	DESCRIPTION
	91450662-00	CONTROL PCB ASS'Y
	91550662-00	CONTROL PCB
U20	5220584-00	IC IR2E24
D18-D25	91650202-50	DIODE 1S1555 P=52mm
D26	91740123-20	LED (YEL) 5φ 333YT/HO
D27	91740124-20	LED (RED) 5φ 333IT/HO
D28-D32	91740123-20	LED (YEL) 5φ 333YT/HO
D33-D35	91740124-20	LED (RED) 5φ 333IT/HO
S3	91350308-00	PUSH SW 2-GANG
S4	91340095-00	TIMER SW SSSL1013NA-TK
S5-S11	91360005-02	TACT SWITCH SKHHPK2510-TK
R1	91720168-00	REC VR 50KA*2 RK16K12D0025-TK
R2	91720169-01	BIAS FINE VR RK12K114A012-5KB
J2 J3	91400970-12	SOCKET 12P (12MQ-ST) P=2mm
	97888306-00	JUMP WIRE

## JACK PCB ASS'Y (V-480)

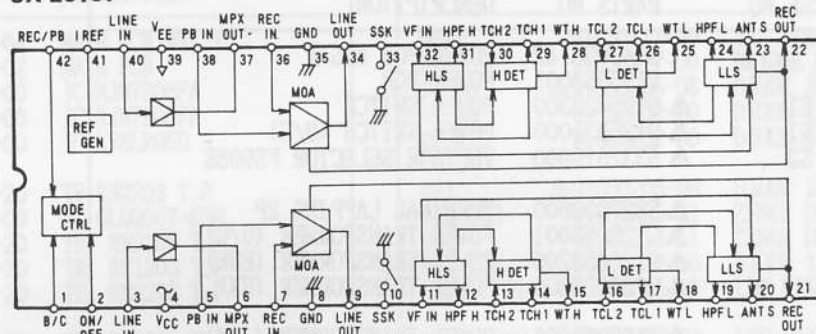
REF.NO.	PARTS NO.	DESCRIPTION
	9145066301	JACK PCB ASS'Y
	9155066301	JACK PCB
J1	9140097005	SOCKET 5P (05MQ-ST) P=2mm
J5	9143190000	PHONE JACK (YKB21-5010)
	9260100600	JACK BRACKETT

[US]:U.S.A. [E]:EUROPE [UK]:U.K. [C]:CANADA  
 [A]:AUSTRALIA [GE]:GENERAL EXPORT [J]:JAPAN

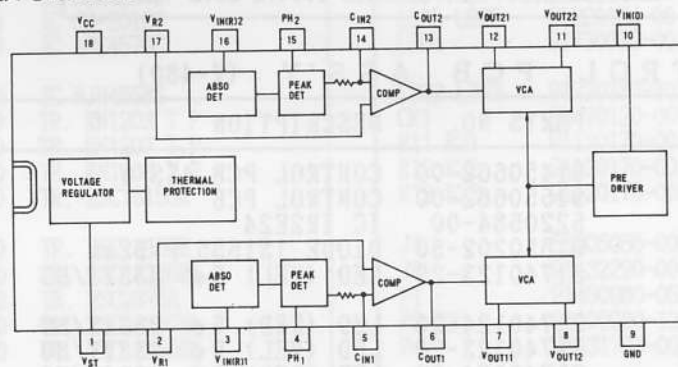


## IC BLOCK DIAGRAM

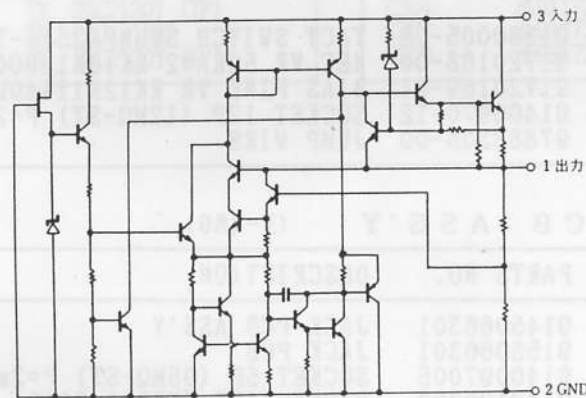
CX-20187



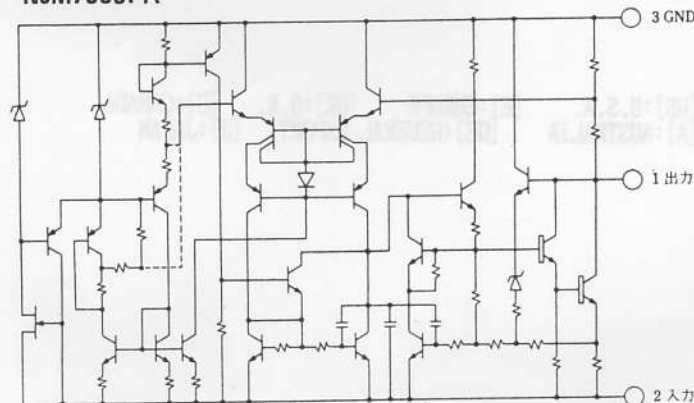
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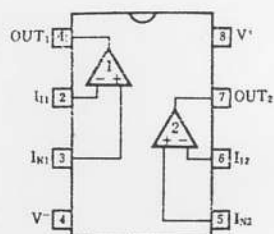
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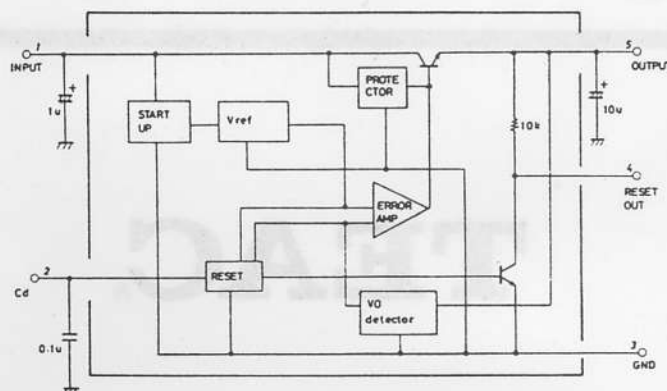
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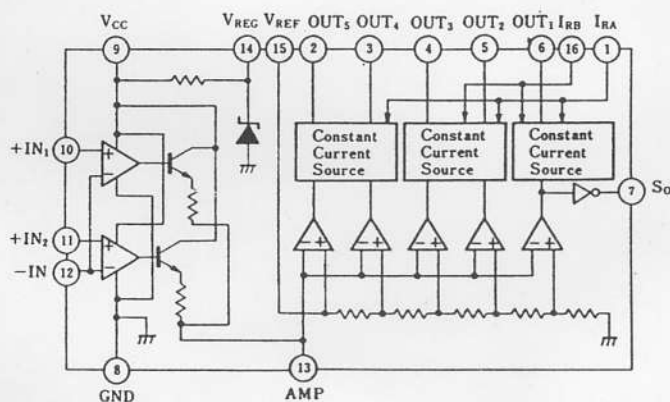
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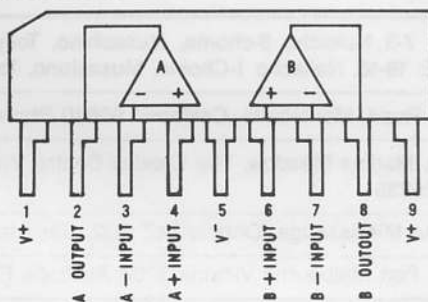
## L78LR05



## IR2E24



## NJM4558S



# V-480

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