TC-FX150

SERVICE MANUAL



MODEL NO. TO-FX150

US Model Canadian Model AEP Model UK Model E Model

> Free service manuals Gratis schema's

> > Digitized by

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SPECIFICATIONS

Recording system

4-track 2-channel stereo

Fast-forward and rewind time

Approx. 120 sec. (with C-60 cassette)

Bias frequency 105 kHz

Signal-to-noise ratio (NAB, at peak level)

Dolby NR switch Cassette	OFF	B-TYPE ON	C-TYPE ON
TYPE IV (Sony METAL-ES)	58 dB	65 dB	71 dB
TYPE II (Sony UX-S)	56 dB	63 dB	69 dB
TYPE I (Sony HF-S)	54 dB	61 dB	67 dB

Total harmonic distortion

1.0% (with Sony METAL-ES cassette)

Frequency response (DOLBY NR OFF)

TYPE IV cassette (Sony METAL-ES)	30 – 15,000 Hz (± 3 dB/DIN) 30 – 13,000 Hz (±3 dB, 0VU recording) 20 – 16,000 Hz
TYPE II cassette	30 – 14,000 Hz (±3 dB/DIN)
(Sony UX-S)	20 – 15,000 Hz
TYPE I cassette	30 – 13,000 Hz (±3 dB/DIN)
(Sony HF-S)	20 – 14,000 Hz

Wow and flutter 0.12% WRMS (NAB)

± 0.2% (DIN)

Inputs

Connector	Туре	Sensitivity	Impedance	
LINEIN	phono	77.5 mV (-20 dB)	50 kilohms	

Outputs

Connector	Туре	Rated output level	Load impedance
LINE OUT	phono	0.44 V (-5 dB) at load impedance 47 kilohms	over 10 kilohms
HEAD- PHONES	stereo	0.3 mW at load impedance 32 ohms	SONA DEML.

Tape Transport Mechanism Type TCM-YM47CW-32

General lajem baseagze redio fla brin , swero

Power requirements

220 V AC (240 V AC adjustable by authorized Sony personnel), 50 Hz
120 V AC, 60 Hz
240 V AC (220 V AC adjustable by authorized Sony personnel), 50 Hz
120, 220, or 240 V AC adjustable, 50/60 Hz

Power consumption

10 watts

Dimensions

Approx. 430 × 115 × 250 mm (w/h/d)

 $(17 \times 4^{5}/8 \times 9^{7}/8 \text{ inches})$

including projecting parts and controls

Weight Approx. 2.8 kg (6 lbs 3 oz)

Supplied accessories

Connecting cord (2)

Design and specifications subject to change without notice.

Note

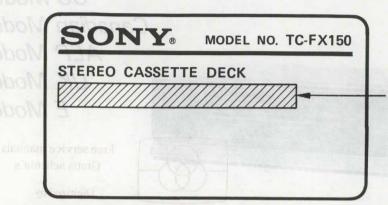
This appliance conforms with EEC Directives 76/889 and 82/499 regarding interference suppression.

STEREO CASSETTE DECK SONY®



MODEL IDENTIFICATION

- Specification Label -



THOUSIN TOLANTO

US, Canadian Model: AC: 120 V 60 Hz 10 W

AEP Model: AC: 220 V ~ 50/60 Hz 10 W UK Model: AC: 240 V ~ 50/60 Hz 10 W

E Model: AC: 120, 220, 240 V

~ 50/60 Hz 10 W

SAFETY CHECK-OUT

After correcting the original service problem,

3. Measuring the voltage drop across a resistor by perform the following safety check before releasing the voltage drop across a resistor by means of a VOM or battery-operated AC voltage to the customer:

meter. The "limit" indication is 0.75 V so

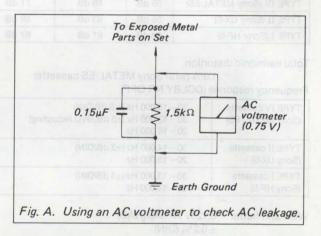
Check the antenna terminals, metal trim, "metallized" knobs, screws, and all other exposed metal parts for AC leakage. Check leakage as described below.

LEAKAGE TEST

The AC leakage from any exposed metal part to earth ground and from all exposed metal parts to any exposed metal part having a return to chassis, must not exceed 0.5 mA (500 microampers). Leakage current can be measured by any one of three methods.

- A commercial leakage tester, such as the Simpson 229 or RCA WT-540A. Follow the manufacturers' instructions to use these instruments.
- A battery-operated AC milliammeter. The Data Precision 245 digital multimeter is suitable for this job.

3. Measuring the voltage drop across a resistor by means of a VOM or battery-operated AC voltmeter. The "limit" indication is 0.75 V, so analog meters must have an accurate low-voltage scale. The Simpson 250 and Sanwa SH-63Trd are examples of a passive VOM that is suitable. Nearly all battery operated digital multimeters that have a 2 V AC range are suitable. (See Fig. A)



SAFETY-RELATED COMPONENT WARNING!!

COMPONENTS IDENTIFIED BY SHADING AND MARK

ON THE SCHEMATIC DIAGRAMS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION.
REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

ATTENTION AU COMPOSANT AYANT RAPPORT À LA SÉCURITÉ!

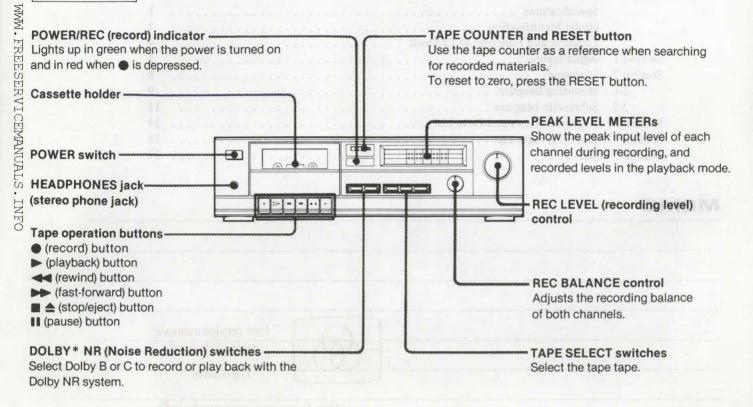
LES COMPOSANTS IDENTIFIÉS PAR UNE TRAME ET UNE MARQUE SUR LES DIAGRAMMES SCHÉMATIQUES ET LA LISTE DES PIÈCES SONT CRITIQUES POUR LA SÉCURITÉ DE FONCTIONNEMENT. NE REMPLACER CES COMPOSANTS QUE PAR DES PIÈCES SONY DONT LES NUMÉROS SONT DONNÉS DANS CE MANUEL OU DANS LES SUPPLÉMENTS PUBLIÉS PAR SONY.

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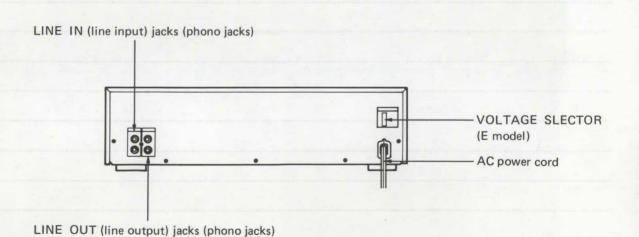
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				JNE-OUT (line output) jac	

LOCATION AND FUNCTION OF CONTROLS

FRONT PANEL



REAR PANEL



SECTION 1 ADJUSTMENTS

1-1. MECHANICAL ADJUSTMENTS

PRECAUTION

1. Clean the following parts with a denaturedalcohol-moistened swab:

> record/playback head erase head capstan

pinch roller rubber belts idler

- 2. Demagnetize the record/playback head with a head demagnetizer.
- 3. Do not use a magnetized screwdriver for the adjustments.
- 4. After the adjustments, apply suitable locking compound to the parts adjusted. 5. The adjustments should be performed with the
- rated power supply boltage unless otherwise noted.

Torque Measurement

Torque	Torque	Meter reading
FWD	CQ-102C	30 to 70 g•cm (0.43 to 0.97 oz•inch)
FWD Back tension	CQ-102C	1.5 to 5.5 g • cm (0.02 to 0.07 oz • inch)
FF, REW	CQ-201B	63 g • cm or more (0.87 oz • inch or more)

1-2. ELECTRICAL ADJUSTMENTS

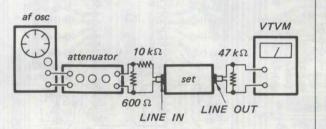
Note: The adjustment should be performed in the order given in this service manual. The adjustments should be performed for both L-CH and R-CH.

• Switches and controls should be set as follows unless otherwise specified. DOLBY NR switch: OFF TIMER switch: OFF

• Standard Record: Deliver the standard input signal level to the input

jack and set the REC LEVEL control to obtain the standard output signal level.

- Record Mode -



Standard Input Level

	LINE IN
source impedance	10 kΩ
input level	0.25 V (-10 dB)

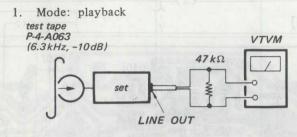
Standard Output Level

		1	L	INE	out Fre	e service manua
load impeda	nce	7	XX	471	kΩ	iratis schema's
output leve	1		204	4 V ((-5 dB)	Digitized by

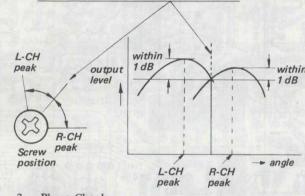
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Record/Playback Head Azimuth Adjustment

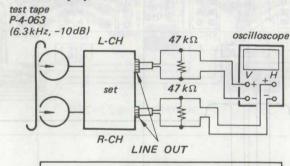
Procedure:



2. Turn the adjustment screw for the maximum output levels. If these levels do not match, turn the adjustment screw until both of output levels match together within 1 dB.



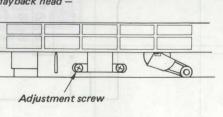
3. Phase Check Mode: playback



Screen pattern in phase 45° 135° 180°

Adjustment Location:

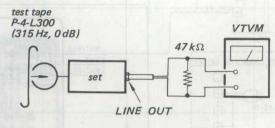
- Record/Playback head -



Playback Level Adjustment

Procedure:

1. Mode: playback



Adjust RV131 (L-CH) and RV231 (R-CH) so that the specification is met.

Specification:

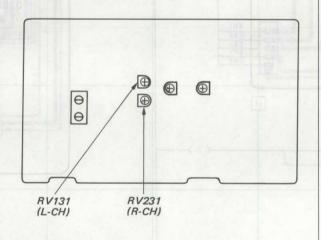
Line OUT level: 0.41 to 0.46 V

(-5.5 to -4.5 dB)Level difference between channels:

less than 0.5 dB

Check that the LINE OUT level does not change in playback mode while changing the mode from playback to stop several times.

Adjustment Location: audio borad



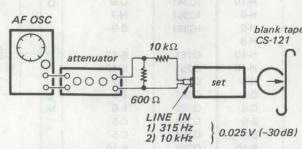
Record Bias Adjustment

Setting:

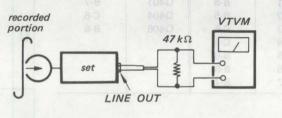
REC LEVEL control: standard record (See page 5)

Procedure:

1. Mode: record

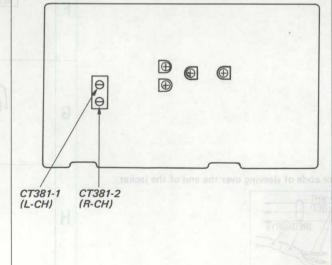


2. Mode: playback



Confirm that the 10 kHz playback output is 0±0.5 dB relative to the 315 Hz output. If necessary, adjust CT381-1 (L-CH), CT381-2 (R-CH) and repeat the steps given above.

Adjustment Location: audio board



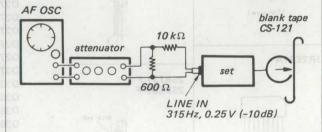
Record Level Adjustment

Setting:

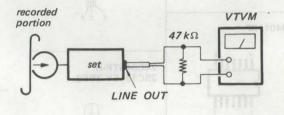
REC LEVEL control: standard record (See page 5)

Procedure:

1. Mode: record



2. Mode: playback

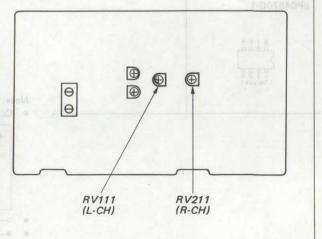


Playback the signal recorded in step 1. Confirm that the signal level is within the specification below. If necessary, adjust RV111 (L-CH), RV211 (R-CH) and repeat the step 1-3.

Specification:

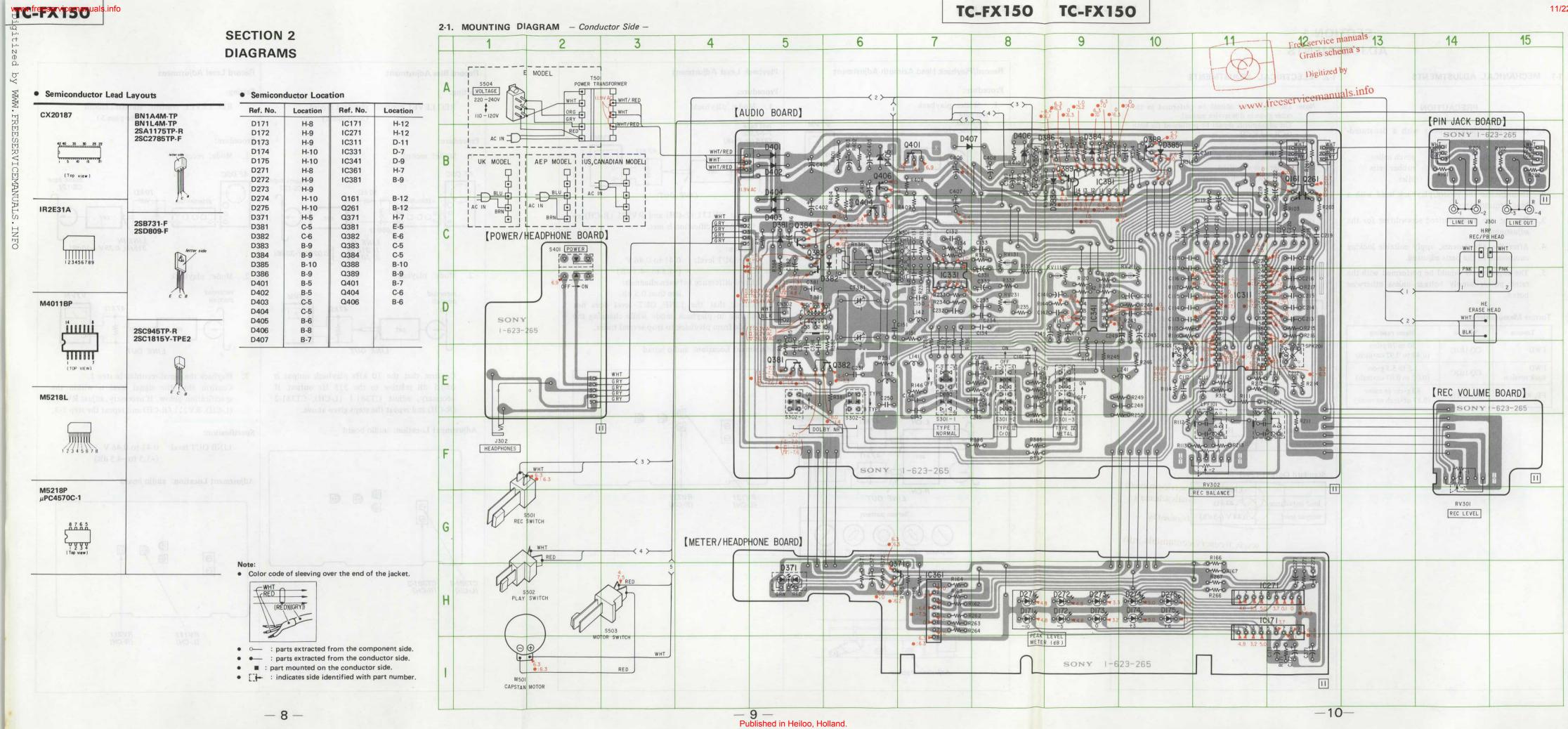
LINE OUT level: 0.41 to 0.46 V (-5.5 to -4.5 dB)

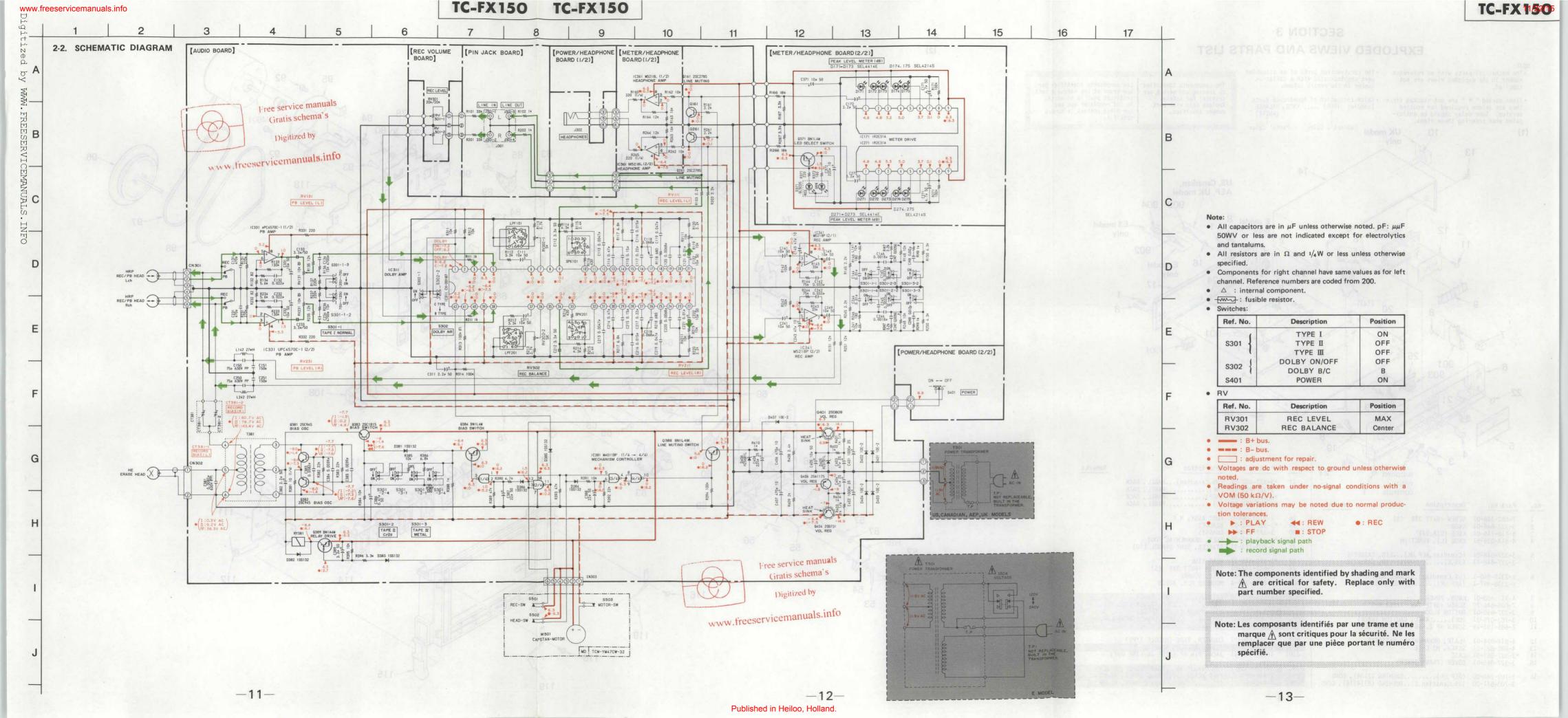
Adjustment Location: audio board



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-7-





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TC-FX150 TC-FX150

11/22/15

SECTION 3 EXPLODED VIEWS AND PARTS LIST

• Items marked " * " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items. • Color Indication of Appearance Parts Example: (RED) KNOB, BALANCE (WHITE)

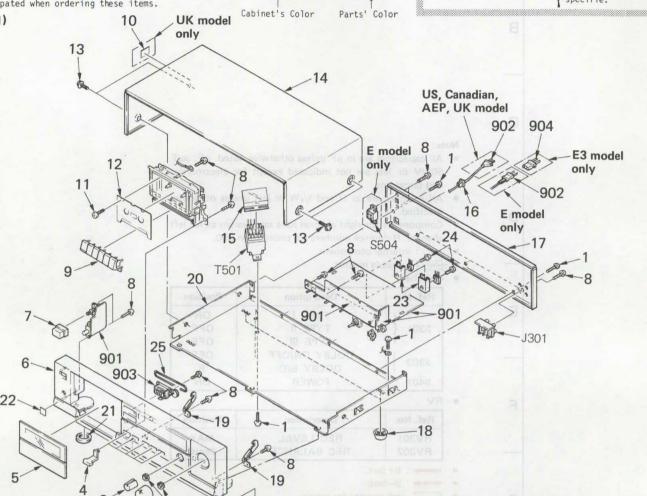
The mechanical parts with no reference number in the exploded views are not supplied.

The construction parts of an assembled part are indicated with a collation number in the remark column.

The components identified by shading and mark ∱ are critical for safety.
Replace only with part number specified.

Les composants identifiés par une trame et une marque Å sont critiques pour la sécurité.
Ne les remplacer que par une pièce portant le numéro spécifié.

Remarks

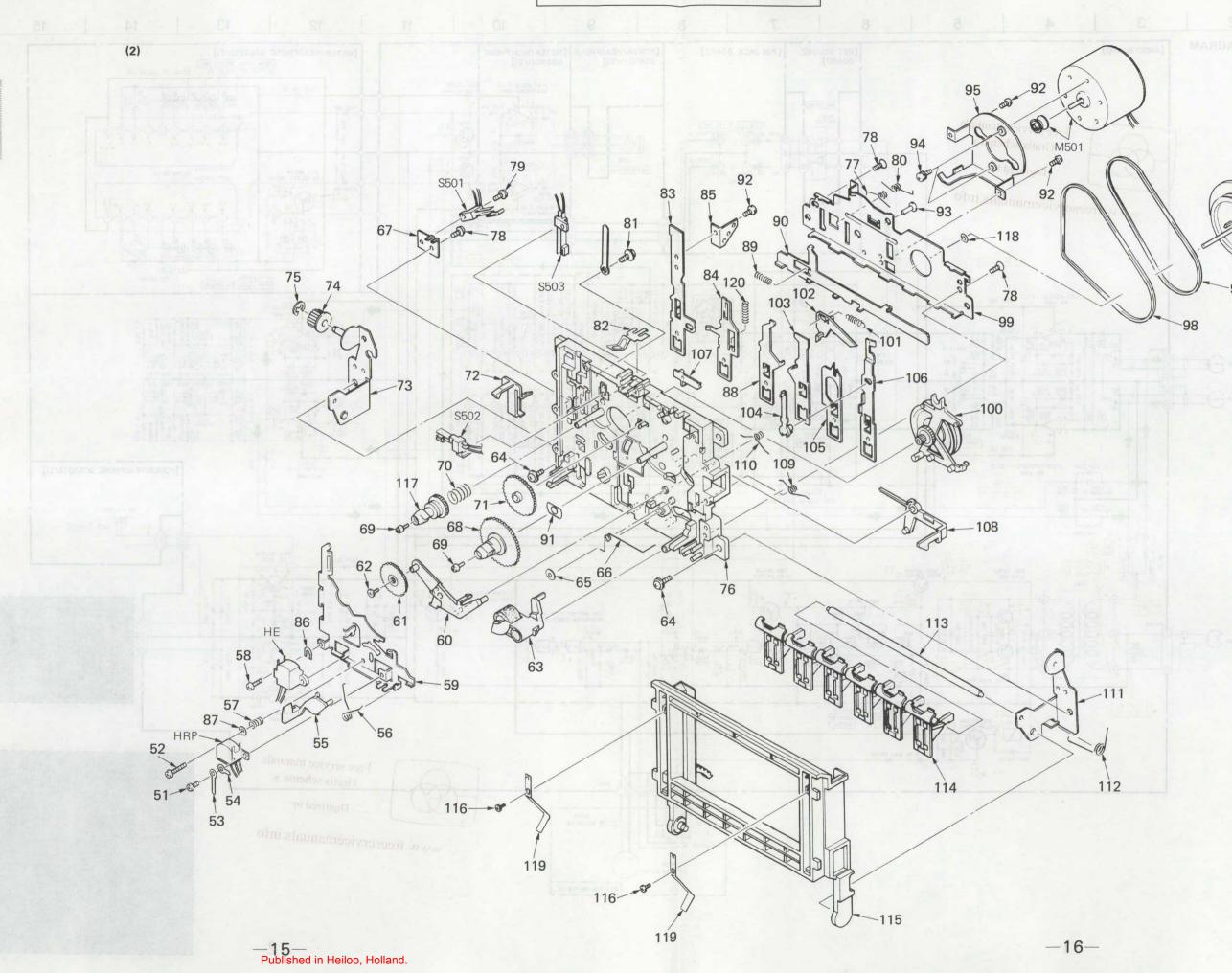


	Part No.	controls 1 Description Remark	ks	*3-327-852-22	(AEP)PANEL, BACK (E)PANEL, BACK
1	7-682-148-01	SCREW +BVTT 3X8 (S)			FOOT ASSY, M.F
2	3-327-846-01		-3	*3-327-845-01	
2	4-916-746-01	KNOB (DIA.21)		3-327-854-01	
4	4-914-039-51	KNOB (L), FUNCTION	21		FELT, ORNAMENTAL FOOT
			22	3-703-713-41	STICKER, SONY SYMBOL (10)
5	3-327-848-01	(Canadian, AEP, UK)LID, CASSETTE			
	3-327-848-11	(US,E)LID, CASSETTE	23	*3-312-615-31	
		Alkana Suno exciting to and be	24	7-682-147-01	SCREW +BYTT 3X6 (S)
6	X-3318-950-1	(US,Canadian)PANEL ASSY 21	1 25	3-506-040-XX	BELT, SQUARE
	X-3318-951-1	(AEP,UK)PANEL ASSY	901	*A-2056-371-A	MOUNTED PCB, AUDIO
7	4-917-460-01	KNOB BOMED	902	A 1-551-472-00	(E)CORD, POWER
	7-685-646-79				(AEP)CORD, POWER EULO PLUG
8	3-327-850-01				(Canadian)CORD, POWER
0		(UK)LABEL, CAUTION (BACK)			(US)CORD, POWER(NONPOLAR.SPT-1
1	7-685-133-19		entifie		(UK)CORD, POWER
			ont oritiques	1 540 506 01	COUNTED TARE (MIRRIE TYRE)
2	4-914-974-01		903		COUNTER, TAPE (MIDDLE TYPE)
3	4-886-821-01	SCREW, M3 CASE	904		JACK, PIN 4P (LINE IN/LINE OUT)
4	*3-327-853-01		0301	1-50/-90/-11	JACK, PIN 4P (LINE IN/LINE UUT)
5	3-327-855-01	COVER (TRANSFORMER)	TEOL	A.1-448-093-21	(US,Canadian)TRANSFORMER, POWER
_	2 702 044 00	(AED IN) BUSHING (2104) CORD		A.1-448-094-31	
6	3-703-244-00	(AEP,UK)BUSHING (2104), CORD (US,Canadian,E)BUSHING (S)(4516), CO	STATE OF THE PARTY	A.1-448-095-31	(E)TRANSFORMER, POWER
	3-703-571-00	(US, Canadian, E) DUSHING (3)(4510), CC	1301	Ш 440 033 32	(L) THE STATE OF T

-14-

No. Part No.

Description 17 *3-327-852-02 (US,Canadian)...PANEL, BACK



ELECTRICAL PARTS LIST

No.	Part No.	Description	Remarks	No.	Part No.	<u>Description</u> <u>Remarks</u>
S 51	7-621-255-15	SCREW +P 2X3		79	7-621-259-35	SCREW +PTT 2.6X5 (S)
₹ 52	7-621-905-65	SCREW, TOTSU P 2X8		80	4-894-979-01	SPRING THE SPRING THE SPRING THE SPRING THE SPRING
51 52 53	3-390-819-01	LUG	- zimio ni an	81	7-687-233-11	SCREW (+ PTPWH) (2.6X6)
54	3-390-817-01	LUG		82	4-894-966-01	SPRING STATE
☆ 55	4-894-956-01			83	*4-894-994-01	REC LEVER
56	3-390-804-01	SPRING, PINCH ARM	1000	84	3-390-810-01	
SERVI	4-894-955-01	C CDDINC		85	*3-390-828-01	LEVER, RSW
58	7-685-852-01	CCDEN IDVIT OVE (C)	D. L. Ton exa	86	3-390-821-01	SPACER
< 59	4-894-957-01	HEAD BASE B	A9M tera49	87	3-390-823-01	WASHER, F
	4-894-962-01	IDLER ARM		88	*4-894-990-01	REW LEVER
61 62 63 64 64	4-894-961-01	IDLER GEAR	110-1-24	89	4-894-983-01	C SPRING
₱ 62	4-894-960-01	BUSH		90	4-894-984-01	
Z 63	3-390-805-01	ROLLER ASSY, PINCH	100000000000000000000000000000000000000	91	3-390-820-01	
5 64	7-687-501-31	SCREW, TOTSU PTTWH 2.6X6		92	7-685-781-04	SCREW +PTT 2X4 (S)
H			- oH, 198			
to 65	4-894-969-01			93	3-390-822-01	
• 66	4-894-967-01	SPRING	6860.	94	7-628-253-90	
₩ 67	*3-390-829-01	BRACKET, SW	4803 -	95	*3-390-814-01	
68	4-894-963-01	T REEL ASSY	2885	96	3-390-806-01	
INFO 69	3-390-803-01	BUSHING (D)	3913	97	3-390-807-01	BELT, SQUARE
70	4-894-954-01		7883	98	3-390-816-01	
71		F GEAR		99	*4-894-977-01	BACK PLATE
72		INTERLOCK ARM				
73	*4-894-972-01			HE		HEAD, ERASE (886-01-24)
74	4-895-001-01			HRP	1-543-424-11	HEAD, MAGNETIC (REC/PB)
VAC	19 THE 21 THE	1-124-55-11 [1-121-1		M501	1-541-239-00	
75	7-624-106-04	STOP RING 3.0, TYPE -E		VO		
76		CHASSIS ASSY		\$501		SWITCH, LEAF (REC)
77	4-894-978-01			\$502	1-570-716-11	SWITCH, LEAF (HEAD)
78	7-685-133-19	SCREW +P 2.6X6 TYPE1		\$503		SWITCH, LEAF (MOTOR)
				YO.		

No.	Part No.	Description	Remarks	No.	Part No.	Description Mark Mo-INI-Mark I-1	Remarks
100 101 102 103 104	4-894-997-01 3-390-809-01 4-894-982-01 *4-894-988-01 4-894-985-01	S ARM FF LEVER W PAUSE ARM		112	4-894-999-01 *4-895-017-01 4-894-973-01 *4-894-970-01 4-894-971-01	SPRING BUTTON BRACKET L ASSY SPRING BUTTON SHAFT W BUTTON LEVER	
105 106 107 108 109	4-894-987-01 4-894-986-01 3-390-811-01 *4-894-980-01 4-894-989-01	S.E LEVER PAUSE LEVER LEVER, REC STOP EJECT ARM SPRING		115 116 117 118 119	3-390-801-01 7-685-103-19 4-894-953-01 4-894-976-01 4-894-951-01	CASE, CASSETTE SCREW +P 2X5 TYPE2 NON-SLIT S REEL P WASHER KEEP PLATE	
				VO I			

SECTION 4 ELECTRICAL PARTS LIST

NOTE:

- Items marked " * " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- · If there are two or more same circuitsin a set such as a stereophonic machine, only typical circuit parts may be indicated and capacitors and resistors in other same circuits may be omitted.

MF:μF, PF:μμF. CAPACITORS:

RESISTORS

· All resistors are in ohms. · F : nonflammable

COILS

· MMH : mH, UH : µH

SEMICONDUCTORS

In each case, U : μ, for example: UA...: μΑ..., UPA...: μΡΑ..., UPC...: μΡC, UPD...: μPD...

The components identified by shading and mark A are critical for safety. Replace only with part number specified.

Les composants identifiés par une trame et une marque Asont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

ELECTRICAL PARTS

	-				
Ref.No.	Part No.	Description			
901	*A-2056-371-A	MOUNTED PCB			
	A.1-551-472-00 A.1-555-795-00 A.1-557-578-11 A.1-558-941-11 A.1-558-946-11	(AEP) (Canadian). (US)	CORD, POWE CORD, POWE CORD, POWE CORD, POWE	R EULO R R(NONPO	
903 904 /	1-548-596-21 1-526-565-00	COUNTER, TA	PE (MIDDLE T	YPE)	30
C111	1-123-875-91	ELECT	10MF	20%	50V
C112	1-124-273-00	ELECT	3.3MF	20%	50V
C113	1-110-203-00	MYLAR	0.0047MF	5%	50V
C114	1-136-173-00	FILM	0.47MF	5%	50V
C115	1-136-167-00	FILM	0.15MF	5%	50V
C116	1-136-155-00	FILM	0.015MF	5%	50V
C117	1-136-169-00	FILM	0.22MF	5%	50V
C118	1-136-163-00	FILM	0.068MF	5%	50V
C119	1-136-161-00	FILM	0.047MF	5%	50V
C120	1-130-481-00		0.0068MF	5%	50V
C121	1-136-153-00		0.01MF	5%	50V
C122	1-123-875-91		10MF	20%	50V
C131	1-162-290-31	CERAMIC	470PF	10%	50V
C132	1-136-157-00	FILM	0.022MF	5%	50V
C133	1-124-273-00	ELECT	3.3MF	20%	50V
C134	1-161-377-00	CERAMIC	0.0047MF	30%	16V
C141	1-123-875-91	ELECT	10MF	20%	50V
C142	1-136-159-00	FILM	0.033MF	5%	50V
C143	1-124-446-11	ELECT	47MF	20%	10V
C144	1-136-153-00	FILM	0.01MF	5%	50V
C145	1-110-201-00	MYLAR	0.0033MF	5%	50V
C146	1-130-474-00	MYLAR	0.0018MF	5%	50V
C147	1-130-480-00	MYLAR	0.0056MF	5%	50V
C148	1-136-154-00	FILM	0.012MF	5%	50V
C149	1-123-875-91	ELECT	10MF	20%	50V
C150	1-136-273-91	FILM	75PF	5%	630V
C151	1-162-284-31	CERAMIC	150PF	10%	50V
C171	1-124-927-11	ELECT	4.7MF	20%	50V
C172	1-124-925-11	ELECT	2.2MF	20%	50V
C311	1-124-925-11	ELECT	2.2MF	20%	50V
C331 C332 C371	1-123-875-91 1-123-875-91 1-123-875-91	ELECT ELECT	10MF 10MF 10MF	20% 20% 20%	50V 50V 50V
C372	1-124-444-00	ELECT	220MF	20%	10V
C381	1-136-562-91	FILM	0.0082MF	5%	630V
C382	1-124-925-11	ELECT	2.2MF	20%	50V

ELECTRICAL PARTS

Ref.No.	Part No.	Description	W 10-690		
C383	1-130-482-00	MYLAR	0 00000	5%	FOV.
			0.0002111		500
C384	1-130-478-00	MYLAR	0.0039MF	5%	50V
C385	1-130-478-00	MYLAR	0.0039MF	5%	500
C386	1-124-902-00	ELECT	0.47MF	20%	50V
C387	1-124-908-11	ELECT	22MF	20%	500
C388	1-124-908-11	ELECT		20%	50V
0000	1 100 000 00	DERLOCK ARM	M1 10-826	418-P	- 27
C389	1-123-382-00			20%	50V
C401	1-124-557-11		1000MF	20%	25V
C402	1-124-557-11	ELECT	1000MF	20%	25V
C403	1-124-477-11	ELECT		20%	25V
C404	1-124-477-11		47MF	20%	25V
C405	1-123-875-91		10MF		50V
0406	1 104 470 11	FLEAT	47045		1
C406	1-124-472-11	ELECT	470MF	20%	100
C407	1-124-472-11	ELECT	470MF	20%	100
C408	1-124-120-11	ELECT	220MF	20%	25V
CN301	*1-564-509-11	PLUG, CONNECT	TOR 6P		
	*1-564-505-11	PLUG, CONNECT			
	*1-564-509-11	PLUG, CONNECT			
011000	- 501 505	TEOU, CONNECT	OK OF		
CT381	1-141-225-00	CAP, TUNING,	TRIMMER		
0171	0 710 000 00				
D171	8-719-304-37	DIODE SEL4414			
D172	8-719-304-37	DIODE SEL4414			
D173	8-719-304-37	DIODE SEL4414	E 10-580-		
D174	8-719-304-32	DIODE SEL4214			
D175	8-719-304-32	DIODE SEL4214			
D271	8-719-304-37				
02/1	0-/19-304-3/	DIODE SEL4414	10-886-		
D272	8-719-304-37	DIODE SEL4414	E		
D273	8-719-304-37	DIODE SEL4414			
D274	8-719-304-32	DIODE SEL4214			
CENTRAL CO.		DIODE SEETE-4	3		
D275	8-719-304-32	DIODE SEL4214	S		
D371	8-719-946-89	DIODE GL5ED5			
D381	8-719-940-76	DIODE 1SS132			
D382	8-719-940-76	DIODE 1SS132			
D383	8-719-940-76	DIODE 1SS132			
D384	8-719-940-76	DIODE 155132			
0304	0-713-340-70	D10DE 133132			
D385	8-719-940-76	DIODE 1SS132			
D386	8-719-940-76	DIODE 1SS132			
D401	8-719-200-02	DIODE 10E2			
D402	9 710 200 02	DIODE 1050			
D402 D403	8-719-200-02	DIODE 10E2			
	8-719-200-02	DIODE 10E2			
D404	8-719-200-02	DIODE 10E2			
D405	8-719-933-47	DIODE HZS7B2L			
D406	8-719-933-36	DIODE HZS6B1L			
D407	8-719-200-02	DIODE 10E2			
	- , - 5 200 02	DIODE TOLE			
HE	1-543-261-11	HEAD, ERASE (886-01-24)		
HRP	1-543-424-11	HEAD MACHETTA	C (DEC/DB)		
TINE	- 343 424-11	HEAD, MAGNETIO	(KEC/PB)		

FI	FCT	RICAL	PARTS

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zed		ELECTRIC	AL PARTS
	Ref.No.	Part No.	Description
by WWW.FRE	IC171 IC271 IC311	8-759-917-42 8-759-917-42 8-752-018-70	
ET CO	IC331 IC341 IC361 IC381	8-759-111-44 8-759-600-02 8-759-600-02 8-759-601-10	IC UPC4570C-1 IC M5218L IC M5218L IC M4011BP
RVI	J301 J302	1-507-907-11 1-507-982-11	JACK, PIN 4P (LINE IN/LINE OUT) JACK (LARGE TYPE) (HEADPHONES)
ERVICEMANUALS.INFO	L141 L142 L241 L242	1-410-775-21 1-410-780-11 1-410-775-21 1-410-780-11	MICRO INDUCTOR 10MMH MICRO INDUCTOR 27MMH MICRO INDUCTOR 10MMH MICRO INDUCTOR 27MMH
Ls.		1-235-980-11 1-235-980-11	FILTER, LOW PASS FILTER, LOW PASS
	M501	1-541-239-00	MOTOR
0	Q161 Q261 Q371	8-729-600-27 8-729-600-27 8-729-806-20	TRANSISTOR 2SC634SP TRANSISTOR 2SC634SP TRANSISTOR 2SA1345
	Q381 Q382 Q383	8-729-600-27 8-729-600-27 8-729-281-53	TRANSISTOR 2SC634AP TRANSISTOR 2SC634SP TRANSISTOR 2SC1815BL
	Q384 Q388 Q389	8-729-806-20 8-729-806-20 8-729-159-01	TRANSISTOR 2SA1345 TRANSISTOR 2SA1345 TRANSISTOR 2SA1348
	Q401 Q404 Q406	8-729-180-93 8-729-173-13 8-729-204-83	TRANSISTOR 2SD809 TRANSISTOR 2SB731 TRANSISTOR 2SA1048-GR
	R101 R102 R103	1-249-435-11 1-249-417-11 1-249-421-11	CARBON 33K 5% 1/4W CARBON 1K 5% 1/4W CARBON 2.2K 5% 1/4W
	R111 R112 R113	1-249-417-11 1-249-423-11 1-249-422-11	CARBON 1K 5% 1/4W CARBON 3.3K 5% 1/4W CARBON 2.7K 5% 1/4W
	R114 R115 R116	1-215-436-00 1-215-430-00 1-215-412-00	CARBON 4.3K 5% 1/4W CARBON 2.4K 5% 1/4W CARBON 430 5% 1/4W
	R117 R118 R119	1-249-427-11 1-249-415-11 1-249-429-11	CARBON 6.8K 5% 1/4W CARBON 680 5% 1/4W CARBON 10K 5% 1/4W
	R120 R131 R132	1-249-421-11 1-215-479-00 1-249-404-00	CARBON 2.2K 5% 1/4W CARBON 270K 5% 1/4W CARBON 82 5% 1/4W
	R133 R134 R135	1-215-472-00 1-247-849-00 1-249-430-11	CARBON 130K 5% 1/4W CARBON 5.6K 5% 1/4W CARBON 12K 5% 1/4W

ELECTRICAL PARTS

Ref.No.	Part No.	Description			
R136	1-249-431-11	CARBON	15K	5%	1/4W
R137	1-247-887-00	CARBON	220K	5%	1/4W
R142	1-249-441-11	CARBON	100K	5%	1/4W
R143	1-249-435-11	CARBON	33K	5%	1/4W
R144	1-215-466-00		75K	5%	1/4W
R145	1-249-421-11	CARBON	2.2K	5%	1/4W
R146	1-249-408-11	CARBON	180	5%	1/4W
R147	1-249-421-11	CARBON	2.2K	5%	1/4W
R148	1-249-429-11	CARBON	10K	5%	1/4W
R149	1-249-419-11	CARBON	1K	5%	1/4W
R150	1-215-436-00	CARBON	4.3K	5%	1/4W
R151	1-249-430-11	CARBON	12K	5%	1/4W
R161	1-249-421-11	CARBON	2.2K	5%	1/4W
R162	1-249-429-11	CARBON	10K	5%	1/4W
R163	1-215-450-00	CARBON	16K	5%	1/4W
R164	1-249-430-11	CARBON	12K	5%	1/4W
R165	1-247-704-11	CARBON	220	5%	1/4W
R166	1-249-432-11	CARBON	18K	5%	1/4W
R167	1-249-423-11	CARBON	3.3K	5%	1/4W
R171	1-249-441-11	CARBON	100K	5%	1/4W
R311	1-249-429-11	CARBON	10K	5%	1/4W
R312	1-249-429-11	CARBON	10K	5%	1/4W
R313	1-215-469-00	METAL	100K	1%	1/6W
R314	1-249-441-11	CARBON	100K	5%	1/4W
R331	1-249-409-11	CARBON	220	5%	1/4W
R332	1-249-409-11	CARBON	220	5%	1/4W
R371	1-249-409-11	CARBON	220	5%	1/4W
R372	1-215-402-00	CARBON	160	5%	1/4W
R381	1-247-688-11	CARBON	10	5%	1/4W
R382	1-249-433-11	CARBON	22K	5%	1/4W
R383	1-249-433-11	CARBON	22K	5%	1/4W
R384	1-249-429-11	CARBON	10K	5%	1/4W
R385	1-249-429-11	CARBON	10K	5%	1/4W
R386	1-249-427-11	CARBON	6.8K	5%	1/4W
R387	1-249-411-11	CARBON	330	5%	1/4W
R388	1-249-417-11	CARBON	1K	5%	1/4W
R389	1-249-437-11	CARBON	47K	5%	1/4W
R390	1-249-425-11	CARBON	4.7K	5%	1/4W
R391	1-249-429-11	CARBON	10K	5%	1/4W
R392	1-249-433-11	CARBON	22K	5%	1/4W
R393	1-249-437-11	CARBON	47K	5%	1/4W
R394	1-249-441-11	CARBON	100K	5%	1/4W
R395	1-249-429-11	CARBON	10K	5%	1/4W
R396	1-249-423-11	CARBON	0.011	5%	1/4W
R401	1-247-713-11	CARBON	1K	5%	1/4W



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ELECTRICAL PARTS

Ref.No.	Part No.	Description John June 1.0H. 109
R402 R403 R404	1-249-417-11 1-247-713-11 1-249-417-11	CARBON 1K 5% 1/4W CARBON 1K 5% 1/4W CARBON 1K 5% 1/4W
R408 R409 R410	1-215-430-00 1-247-838-00 1-249-417-11	CARBON 2.4K 5% 1/4W CARBON 2K 5% 1/4W CARBON 1K 5% 1/4W
RV111 RV131	1-228-994-00 1-228-994-00	RES, ADJ, CARBON 10K (REC LEVEL L) RES, ADJ, CARBON 10K (PB LEVEL L)
RV211 RV231	1-228-994-00 1-228-994-00	RES, ADJ, CARBON 10K (REC LEVEL R) RES, ADJ, CARBON 10K (PB LEVEL R)
RV301 RV302	1-237-775-11 1-237-774-11	RES, VAR, CARBON 20K/20K (REC LEVEL) RES, VAR, CARBON 5K/5K (REC BALANCE)
RY381	1-515-614-11	RELAY
S301 S302 S401	1-571-140-11 1-571-141-11 1-570-103-21	SWITCH, PUSH (3 KEY)(TAPE NORMAL I,II,IV) SWITCH, PUSH (2 KEY)(DOLBY NR) SWITCH, PUSH (1 KEY)(POWER)
S502 S503		SWITCH, LEAF (REC) SWITCH, LEAF (HEAD) SWITCH, LEAF (MOTOR) (E)SWITCH, VOLTAGE CHANGE
	1-235-186-00 1-235-186-00	ENCAPSULATED COMPONENT ENCAPSULATED COMPONENT
T381	1-433-303-11	TRANSFORMER, BIAS OSCILLATION
T501 A	1-448-093-21 1-448-094-31 1-448-095-31	(US,Canadian)TRANSFORMER, POWER (AEP,UK)TRANSFORMER, POWER (E)TRANSFORMER, POWER

ACCESSORY & PACKING MATERIAL

Part No.	Description
1-558-543-11 3-327-843-01	CORD, CONNECTION
3-327-844-01	INDIVIDUAL CARTON
3-701-630-00 3-703-450-01 3-703-713-41	BAG, POLYETHYLENE (US)INSTRUCTION STICKER, SONY SYMBOL (10)
3-769-251-11 3-769-251-21 3-769-251-31 3-769-251-41	(AEP)MANUAL, INSTRUCTION (US,Canadian)MANUAL, INSTRUCTION (AEP,E,UK)MANUAL, INSTRUCTION (Canadian)MANUAL, INSTRUCTION

The components identified by shading and mark \underline{A} are critical for safety. Replace only with part number specified.

Les composants identifiés par une trame et une marque A sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.



www.freeservicemanuals.info The following trouble checks will help you correct the most common problems encountered with your tape deck.

Should any problems persist after making these checks, consult your nearest Sony dealer.

Before proceeding with these trouble checks, first confirm the following basic points:

- The power cord is firmly connected.
- The amplifier connections are firmly made.
- The heads, capstan and pinch roller are clean.
- The amplifier controls and switches are set correctly.

TAPE OPERATION BUTTONS AND TAPE	TRANSPORT
Trouble	Cause and/or remedy
The tape does not run when the operation	The cassette is not properly inserted.
button is pressed.	The cassette holder is not properly closed.
	The II button is depressed. Depress the II button again to release the pause mode.
The transport noise seems excessively loud in rewind or fast forward mode.	No trouble. This situation depends upon the cassette used.
The unit shuts off before the end of the tape.	The cassette is defective.
The button does not activate.	No cassette is in the holder.
	The cassette tabl has been removed. Cover the hole with plastic tape.
The fast forward or rewind mode does not shut off automatically.	No trouble. Press ■ ≜ to shut off the fast forward or rewind mode.

Trouble	Cause and/or remedy
Recording or playback cannot be made or	The heads are dirty.
there is a decrease in sound level.	The connections are not made properly.
	The input selector of the amplifier is not set to the correct position.
Excessive wow and flutter or dropout	The heads, capstans or pinch rollers are dirty.
Incomplete erasure	The erase head is dirty.
Increase of noise or erasure	Magnetic build-up on the head. → Demagnetize the head.
Unbalanced tone in higher frequencies	The DOLBY NR switches are not set to the correct position. During playback, set the switches to the same position used in recording.
	The TAPE SELECT switches are not set to the correct position during playback.

NOISE	
Trouble Officelaning	Cause and/or remedy
A hum heard	The deck is placed directly on or under the amplifier. Move the deck away from the amplifier.
Noise is recorded	Recording is made near a television set or a color monitor. Move the deck away from the television set or color monitor.

SOURCE CHECKS

The following trouble checks will help you correct the most common problems encountered with your tape deck, should any problems petalet after making these checks, consult your nearest Sony dealer.

Before proceeding with these trouble checks, first confirm the following basic points

- The power cord is firmly connected.
- The amplifier connections are limity made,
- The heads, departed and pinch roller are clean
- The amplifier controls and switches are set correctly

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vice manuals sechema's	The TAPE SELECT switches are not set to the correct position during Grants

Noise is recorded

Sony Corporation
Audio Group

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