

SERVICE MANUAL

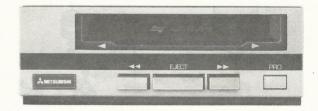
CASSETTE TAPE PLAYER

MODEL: CX-85F, FY MB414316, MB414320

: CX-86F, FY MB414317, MB414321



CX-85F



CX-86F

SPECIFICATIONS

Power Source:

 $13.2V \pm 2.4V$

Output Voltage:

 $45\text{mV}(RL = 22 \text{ k}\Omega)$

• Current Consumption: Less than 0.4A

• Wow and Flutter:

(ACC-PLAY) Less than 0.3% (NAB)

• S/N:

More than 45dB

• Dimensions:

• Weight:

 $160(W) \times 56(H) \times 170(D)$ mm

1.55 kg (CX-85F, FY) 1.53 kg (CX-86F, FY)

FEATURES

- Program Switch for track changing whenever you
- Automatic tape reverse.
- DOLBY, METAL Switch control. (CX-85F, FY only)

MITSUBISHI ELECTRIC AUSTRALIA PTY. LTD.

73-75 EPPING ROAD NORTH RYDE N.S.W. 2113 SYDNEY AUSTRALIA

1. HEAD AZIMUTH ADJUSTMENT (CX-86F, FY only)

Test Tape	Procedures
TEAC MTT-113C (8kHz, -10dB)	Adjust for maximum output then seal screw with paint.

2. OUTPUT LEVEL ADJUSTMENT (CX-86F, FY only)

Test Tape	Procedures
TEAC MTT-118 (1kHz, —10dB)	Adjust for 45mV ± 2dB by VR301 (L-CH), VR401 (R-CH) (Fig. 1, 2)

0.1µF

22K

§22K

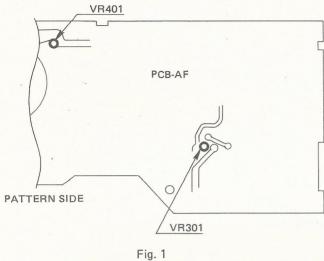
22K

22K

-○ Lch

⊸ Rch

TAPE OUTPUT LEVEL ALIGNMENT POINT



Note: Connect E (GND) Line at first before turn on Acc.

DECK

POWER

Fig. 2

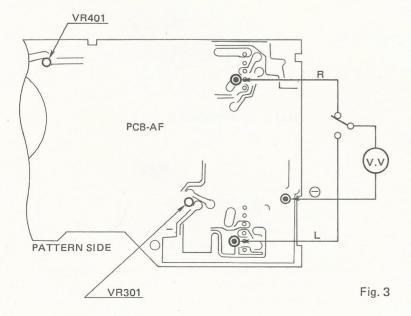
1. HEAD AZIMUTH ADJUSTMENT (CX-85F, FY only)

Test Tape	Procedures	
TEAC MTT-114 (10kHz, —10dB)	Adjust for maximum output then seal screw with paint.	

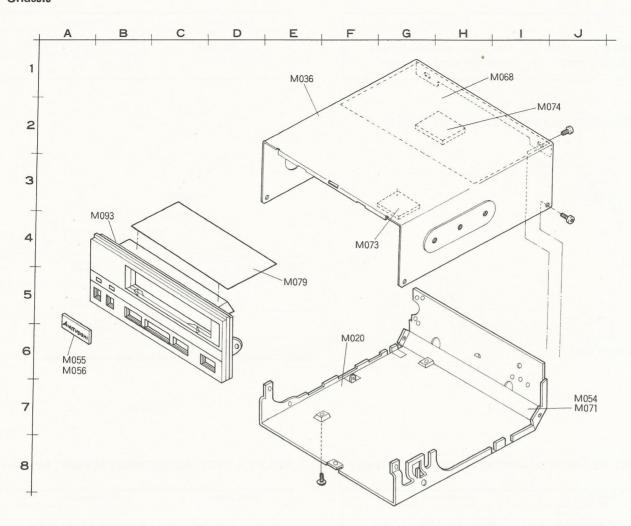
2. DOLBY LEVEL ADJUSTMENT (CX-85F, FY only)

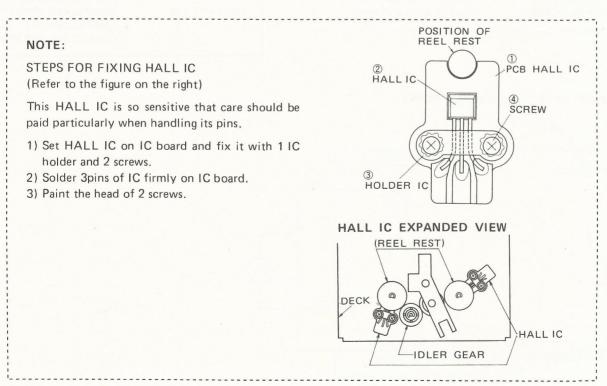
Test Tape	Procedures
TEAC MTT-150	Adjust for 775 \pm 1dB by VR301 (L-CH), VR401 (R-CH) METAL SW: OFF DOLBY SW: OFF (Fig. 3)

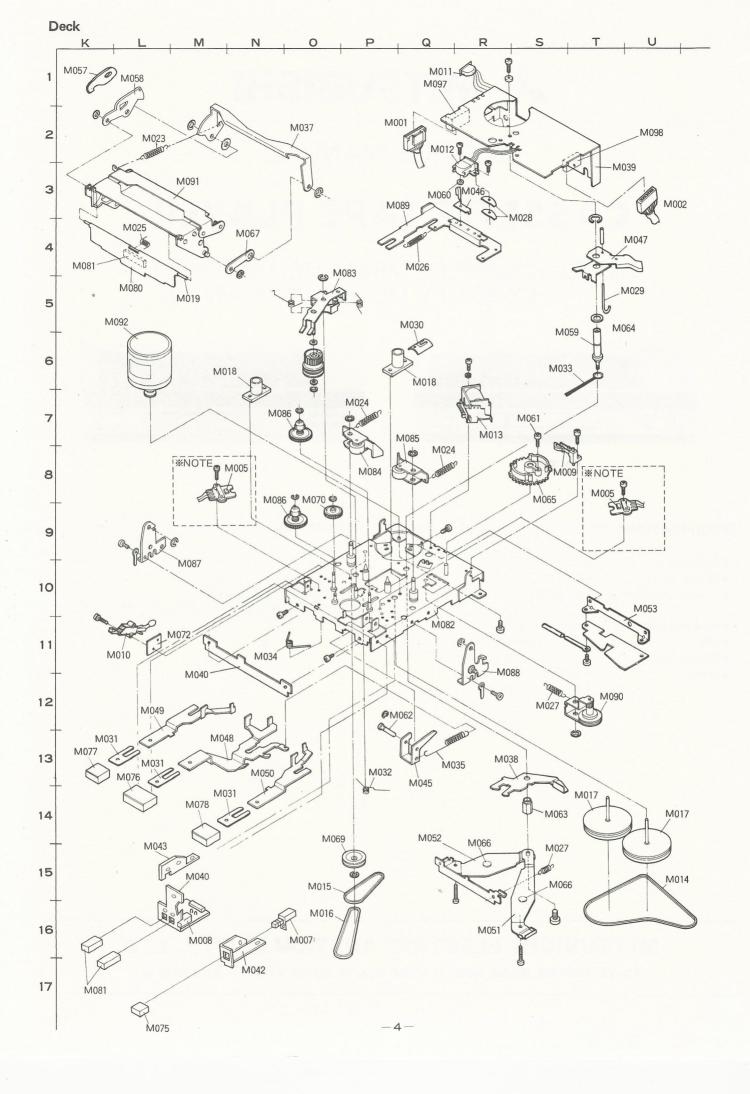
DOLBY LEVEL ALIGNMENT POINT



Chassis







MECHANICAL PARTS LIST

Chassis/Deck

MODEL No.: CX-85F (1) CX-86F (3) CX-85FY (2) CX-86FY (4)

Ref. No.	Part No.	Description	Index
M001	242K03801	LEAD-CONNECTOR-9S	Q-2
M002	242L39608	LEAD-CONNECTOR-9S	U-2
M003	253L01501	LAMP (1)(3)	_
M004	253L02201	LAMP (2)(4)	-
M005	266P79001	HALL-IC	T-8,M-8
M006	431P01306	SW-SLIDE	_
M007	432L02904	SW-PUSH	0-15
M008	432L02905	SW-PUSH (1)(2)	M-16
M009	435L01401		
		SW-SPRING	T-8
M010	439L00102	SW-SQUELTON	L-11
M011	449L00501	SOCKET-MPX	R-1
M012	460P03105	HEAD	Q-2
M013	479L00503	CLUTCH	R-7
M014	521M00801	BELT-MAIN	U-15
M015	521M02501	BELT-MI	0-15
M016	521M02601	BELT-SI	0-16
M017	524L00802	FLYWHEEL	T-14,U-14
M018	530M01301	METAL-CAPSTAN	N-6,Q-6
M019	531M06005	SHAFT-SHUTTER	M-5
M020	560K13601	BOTTOM-CHASSIS	F-6
	3001 13001	PO I I OIM-CHASSIS	17-0
M021			
M022			
M023	570M44901	SPRING-EV	L-2
M024	570M16002	SPRING-PR	P-7,Q-8
M025	570M17302	SPRING-SHUTTER	L-4
M026	570M18502	SPRING-EV	Q-4
M027	570M19901	SPRING-EVT	S-15
M028	570M20901	SPRING-HEAD	S-3
M029	570M21001	PIN-SW	U-5
M030	570M24201	SPRING-S	Q-5
M031	570M26801	SPRING-KNOB	K-13
M032	570M26903	SPRING-FF	P-13
M033	570M27001	SPRING-TU	S-6
M034	570M31201	SPRING-SP	N-11
M035	570M37102	SPRING-UP	Q-13
M036	590K39501	UPPER-COVER	E-1
M037	591L01302	EJECTER	0-2
M038	591M11801	TRIGGER	R-13
M039			
	590L78401	HOLDER-PWB	U-3
M040	591M28702	HOLDER-LEVER	M-12
M041			
M042	592M30701	HOLDER-D	N-17
M043	592M30801	HOLDER-S	L-15
M044			
M045	591M12201	LIFT-LEVER	Q-14
M046	591M12501	LEAD-CLAMPER	R-3
M047	591M28402	CRANK-LEVER	U-2
M048	591M28501	STOP-SLIDE	M-13
M049	591M28601	FF-SLIDE-L	L-12
M050	591M28602	FF-SLIDE-R	N-13
M051	591M36601	BOTTOM-FW	R-16
M052			
	591M36602	BOTTOM-FW	Q-14
M053	591M40001	BRACKET-PWB	U-10
M054	642M27902	INSULATOR-B (3)(4)	J-7
M055	704L31101	KNOB-INLAY (3)	A-6
M056	704L31102	KNOB-INLAY (4)	A-6
M057	591M73001	LINK-B	K-1
M058	591M73101	LOCK-LINK	L-1
M059	630M32302	POST-CL	T-5
M060	630M32702	SPACER-HEAD	Q-3
M061	630M36101	CRANK-ROLLER	S-7
M062	630M39001	SHAFT-LL	Q-12
M063	630M39201	BOSS-CL	S-14
M064	640M00207	WASHER-P	U-5
M065	641L02401	CRANK-GEAR	S-8
		BOTTOM-CAP	S-15,R-14
M066 M067	641M09001	BOTTOW-CAP	3-15,11-14

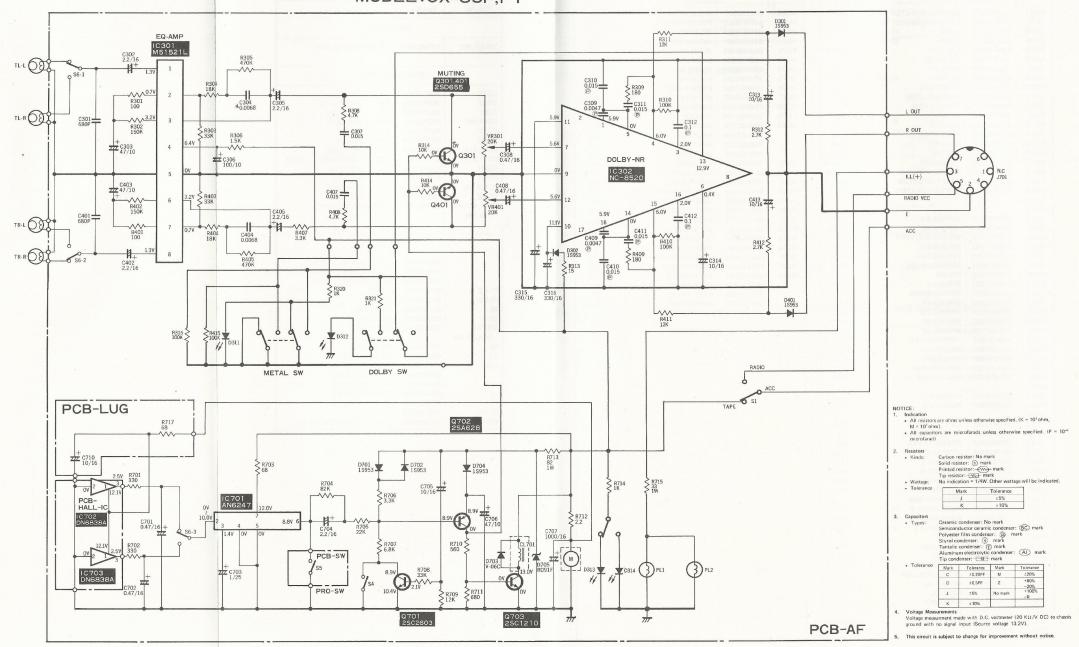
Ref. No.	Part No.	Description	Index
M068	642L02901	INSULATOR	I-1
M069	641M16602	PULLEY-IDLER	0-14
M070	641M18901	IDLER-GEAR-B	0-8
M071	642M27901	INSULATOR-PLATE (1)(2)	J-7
M072	642M06201	INSULATOR-PLATE	M-11
M073	642M06802	DAMPER	E-4
M074	642M06803	DAMPER	1-2
M075	704M67201	KNOB-SW	M-15
M076	704M67301	KNOB-EJECT	L-13
M077	704M67401	KNOB-FF	K-13
M078	704M67402	KNOB-FF	N-14
M079	766M02704	SPACER	E-5
M080	768L02705	SHUTTER (3)	L-5
WIGOO	768L02706	SHUTTER (4)	L-5
	768L02707	SHUTTER (1)	L-5
84004	768L02708	SHUTTER (2)	L-5
M081	704M68101	KNOB-DM (1)(2)	K-17
M082	891K01302	MAIN-BASE	Q-11
M083	891K01504	SLIP-PULLEY	P-4
M084	891L01901	UNIT-PINCH-ROLLER-L	P-8
M085	891L01902	UNIT-PINCH-ROLLER-R	Q-7
M086	891L04904	REEL-REST	N-8
M087	591L01101	BRIDGE-L	M-10
M088	591L01201	BRIDGE-R	R-12
M089	891M04701	SLIDE-BASE	Q-4
M090	891M04801	ASSY-PULLEY	T-12
M091	943L27606	ASSY-ELEVATOR	M-5
M092	943L35304	ASSY-MOTOR	L-5
M093	963L31801	ASSY-PANEL (1)	B-4
	963L31802	ASSY-PANEL (2)	B-4
	963L31803	ASSY-PANEL (3)	B-4
	963L31804	ASSY-PANEL (4)	B-4
1464			
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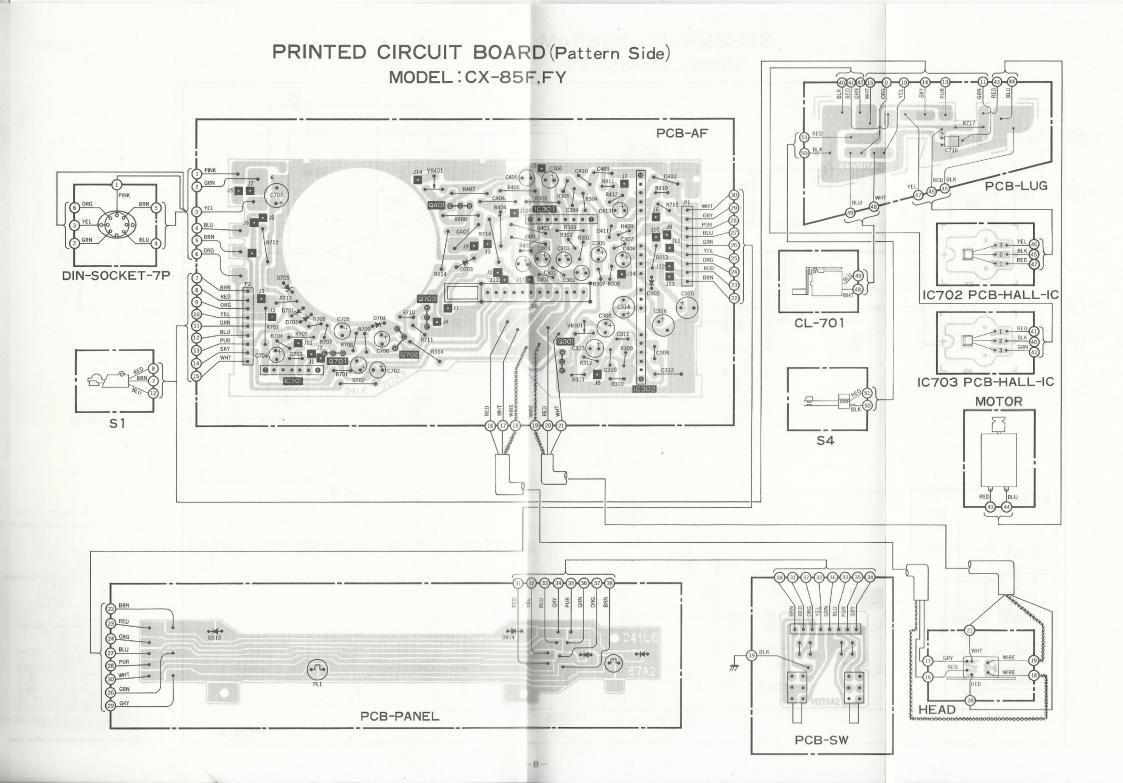
ELECTRICAL PARTS LIST

MODEL No.: CX-85F (1) CX-86F (3) CX-85FY (2) CX-86FY (4)

•		CX-85FY (2) CX-8	36FY (4
Ref. No	Part No.	Description	
	RES	ISTORS	
VR301,401	127M03003	VR-SEMIFIXED 20K	
	SEMICO	NDUCTORS	
Q702	260P16504	TR 2SA628-F	
Q703	260P28005	TR 2SC1210-D2	
Q701	260P33803	TR 2SC2603-F	
Q301,401	260P43101	TR 2SD655-F	
D703	264P08801	DIODE V-06C	
D705	264P21103	DIODE RD9.1F	
D313,314	264P23903	LED SLT-35MG	
D311,312	264P34301	LED LN310GPMY	(3)(4)
IC301	266P31601	IC M51521L	
IC701	266P62601	IC AN6247	
IC702,703	266P79001	IC DN6838A	
IC302	267P31701	IC NC8520	
D301,401,701,	269M01201	DIODE 1S953/1S2076/	
702,704		1S2473	
	ОТ	HERS	
	242K03801	LEAD-CONNECTOR-9S	-
	242L39505	LEAD-CONNECTOR-8S	(1)(2)
	242L39608	LEAD-CONNECTOR-98	(. , , _ ,
PL1.2	253L01501	LAMP	(1)(3)
PL1,2	253L02201	LAMP	(2)(4)
\$6	431P01306	SW-SLIDE	(2/(4/
S5	432L02904	SW-PUSH	
METAL,	432L02905	SW-PUSH	(3)(4)
DOLBY SW	10220200	011 0011	(3/(4/
S4	435L01401	SW-SPRING	
S1	439L00102	SW-SQUELTON	
J701	449L00501	SOCKET-MPX	
2	452D07909	CONNECTOR-9P	
	452M02303	CONNECTOR-8P	(3)(4)
	452M02304	CONNECTOR-9P	(0)(4)
	460P03105	HEAD	
CL701	479L00503	CLUTCH	
MOTOR-ANT	242M29702	LEAD-CONNECTOR-1S	(1)
WO TON-ANT	242W1287U2	LLAD-CONNECTOR-15	14/

SCHEMATIC DIAGRAM MODEL:CX-85F.FY





SCHEMATIC DIAGRAM MODEL:CX-86F,FY

