

30HT FUNCTION REPORT

DC Voltages and Current into Final Amplifier

FINAL AMPLIFIER ONLY

3 V BATTERY

V_{ce}= 4.4V

I_{ce}= 6mA

Function of each electron semiconductor

device or other circuit device MAIN BOARD

<u>DESIGNATION</u>	<u>TYPE NO</u>	<u>IC-DIODE</u>	<u>FUNCTION</u>
IC1	NJM2100M	IC(OP.AMP)	MIC AF AMP
	NJM2100M(2/2)	IC(OP.AMP)	PRE EMPHASIS
IC2	TK10690M	IC	COMPRESSOR
IC5	MB15E03LPFV	IC	PLL FREQUENCY SYNTHESIZER LSI
IC105	XC6371B501PR	IC	DC-DC CONVERTERS IC
IC101	NJU7201U30	IC	VOLTAGE REGULATOR
IC201	NJM2100M	IC	AF LABEL DRIVE
Q3	2SC4116BL	TRANSISTOR	LOW PASS FILTER
Q1,Q2	DTC114TUA	TRANSISTOR	AF MUTE
Q4	DTC114TUA	TRANSISTOR	TONE MUTE
Q105	DTC124EUA	TRANSISTOR	PLL LD
Q5,Q6	DTC114TUA	TRANSISTOR	VCO POWER CONTROL
Q7	DTC114TUA	TRANSISTOR	RF POWER CONTROL
Q8	2SA1588Y	TRANSISTOR	TX CONTROL
Q9	2SC4227	TRANSISTOR	MULTIPLIER
Q10	2SC4227	TRANSISTOR	MULTIPLIER
Q101	2SD1819R	TRANSISTOR	POWER SWITCH
Q102	2SB956S	TRANSISTOR	POWER SWITCH
Q104	2SD1328T	TRANSISTOR	DC/DC CONVERTERS DRIVE
D1	DA204U	DIODE	LIMITER
D2	DA204U	DIODE	LIMITER

D3	DA204U	DIODE	LIMITTER
D4	DA204U	DIODE	LIMITTER
D5	DA204U	DIODE	LOW PASS FILTER
D6	DA204U	DIODE	REVERSE BLOCK
D7	MA77	DIODE	RF SWITCH
D101	DA204U	DIODE	REVERSE BLOCK
D102	MA111	DIODE	REVERSE BLOCK
D103	MA721	DIODE	Rectification
D201	DA204U	DIODE	<u>AF SIGNAL</u> DETECTION

VCO

Q101	2SK508L	FET	OSC AND MODULATON
Q102	2SC4227	TRANSISTOR	BUFFER AMP
D101	1SV229	DIODE	MODULLATION
D102	1SV229	DIODE	MODULLATION

CONTROL(LCD)

IC2	PST597D	IC	RESET
IC4	M93C46	IC	MEMORY
IC5	UPD78F9418A	IC	CPU
D2	RB715F	DIODE	REVERSE BLOCK