

### 30XT FUNCTION REPORT

DC Voltages and Current into Final Amplifier

FINAL AMPLIFIER ONLY

CH121 F=729.000MHz

3 V BATTERY

V<sub>ce</sub>= 4.3V

I<sub>ce</sub>= 12.5mA

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>
<b>CONTROL(LCD)+AF</b>			
IC1	NJM4580M	IC(OP.AMP)	MIC AF AMP
	NJM4580M(2/2)	IC(OP.AMP)	PRE EMPHASIS
IC2	NE575DK	IC	COMPRESSOR
IC4	TC7S66FU	IC	ANALOG SWITCH
IC5	TC7SU04FC	IC	INVERTER
IC6	NJM2100M	IC	AF LABEL DRIVE
IC7	PST597D	IC	RESET
IC9	M93C46	IC	MEMORY
IC10	UPD78F9418A	IC	CPU
Q1	DTC114TUA	TRANSISTOR	AF MUTE
Q2	DTA143ZUA	TRANSISTOR	AF MUTE
Q3	2SC4116BL	TRANSISTOR	AF AMP
Q4	2SC4116BL	TRANSISTOR	RIPPL FILTER
D1	DA204U	DIODE	AF SIGNAL DETECTION
D2	RB715F	DIODE	REVERSE BLOCK
D4	MA111	DIODE	REVERSE BLOCK
D5	MA111	DIODE	LIMITTER
D6	MA111	DIODE	LIMITTER
D7	DA204U	DIODE	LIMITTER
D8	DA204U	DIODE	LIMITTER
D9	DA204U	DIODE	LIMITTER
D10	DA204U	DIODE	LIMITTER

## VCO

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

## RF.POWER

IC1	NJU7201U50	IC	VOLTAGE REGULATOR
IC2	MB15E03LPFV	IC	PLL FREQUECY SYNTHESZER LSI
IC3	NJU7201U30	IC	VOLTAGE REGULATOR
Q1	2SB956	TRANSISTOR	POWER SWITCH
Q2	2SD1819AR	TRANSISTOR	DRIVE
Q3	DTC124EUA	TRANSISTOR	PLL LD
Q4	DTA143ZUA	TRANSISTOR	VCO POWER SWITCH
Q5	DTA143ZUA	TRANSISTOR	RF DRIVE SW
Q6	2SC4227	TRANSISTOR	MULTIPLIER
Q7	2SC4227	TRANSISTOR	R.F.POWER AMP
D1	MA111	DIODE	REVERSE BLOCK
D2	MA111	DIODE	REVERSE BLOCK
D4	DA204U	DIODE	LOW PASS FILTER