

## RAY53 Parts list and Description

REF.No.	SECTION	ARTICLE	MFGR'S DESIGN	DESCRIPTION
D1	RF UNIT	PIN DIODE	XB15A308A2GB	ANT SW
D2	RF UNIT	PIN DIODE	XB15A402A2GB	ANT SW
D3	RF UNIT	SCH DIODE	MA728	RF AMP LIM
D4	RF UNIT	SCH DIODE	1SS383	RF PO DET
D5	RF UNIT	VAR DIODE	1SV276	VCO OSC RX
D6	RF UNIT	VAR DIODE	1SV276	VCO OSC TX
D7	RF UNIT	VAR DIODE	1SV276	VCO MOD
D8	RF UNIT	SCH DIODE	10GWJ2CZ47M	DC LINE SW
D9	RF UNIT	SI DIODE	DAN202U	REG SW
D10	RF UNIT	SI DIODE	DAP202U	REG SW
D11	RF UNIT	SI DIODE	DA204U	MIC AMP LIM
D12	RF UNIT	SCH DIODE	MA728	SW
D13	RF UNIT	SCH DIODE	MA728	SW
D201	CNTL UNIT	LED	FR1101F	LCD BACKLIGHT
D202	CNTL UNIT	LED	FR1101F	LCD BACKLIGHT
D203	CNTL UNIT	LED	FR1101F	LCD BACKLIGHT
D204	CNTL UNIT	LED	FR1101F	LCD BACKLIGHT
D205	CNTL UNIT	LED	FR1111C	KEY BACKLIGHT
D206	CNTL UNIT	LED	FR1111C	KEY BACKLIGHT
D207	CNTL UNIT	LED	FR1111C	KEY BACKLIGHT
IC1	RF UNIT	IC	TA4101F	1ST MIXER
IC2	RF UNIT	IC	TB31213FN	PLL/VCO
IC3	RF UNIT	IC	TA31136FN	IF
IC4	RF UNIT	IC	NJM2904V	AF FILTER
IC5	RF UNIT	IC	M57710-A-41	RF POWER AMP
IC6	RF UNIT	IC	TA75S01F	APC/DC AMP
IC7	RF UNIT	IC	BA178M05	5V REG
IC8	RF UNIT	IC	NJM3403AV	IDC/MIC AMP
IC9	RF UNIT	IC	TDA1519A/N2	AF AMP
IC10	RF UNIT	IC	LMC567C	TONE DET
IC11	RF UNIT	IC	MSM7512BGS-VK	FSK
IC201	CNTL UNIT	IC	UPD78P064GC-8EU	CPU
IC202	CNTL UNIT	IC	BR93LC66FV	EEPROM
IC203	CNTL UNIT	IC	RN5VD45AA	RESET
IC301	VR UNIT	IC	NJM2904V	DC AMP
Q1	RF UNIT	TRANSISTOR	2SC4226R24	RX RF AMP
Q2	RF UNIT	TRANSISTOR	2SC4226R24	IF AMP
Q3	RF UNIT	TRANSISTOR	2SC3357RF	TX RF DRIVER

Q4	RF UNIT	TRANSISTOR	2SC4226R24	TX RF BUF AMP
Q5	RF UNIT	TRANSISTOR	2SB1566	TX RF PA REG SW
Q6	RF UNIT	TRANSISTOR	2SC4116GR	TX RF PA REG SW
Q8	RF UNIT	TRANSISTOR	2SC4116GR	TX PO DET SW
Q9	RF UNIT	TRANSISTOR	DTC144EUA	TX LOW-PO SW
Q10	RF UNIT	TRANSISTOR	2SC4116GR	PLL/VCO REG SW
Q11	RF UNIT	TRANSISTOR	2SC4226R24	TX RF BUF AMP
Q12	RF UNIT	TRANSISTOR	2SC4116GR	UN LOCK SW
Q13	RF UNIT	TRANSISTOR	DTC144EUA	UN LOCK SW
Q15	RF UNIT	TRANSISTOR	2SC4116GR	NMEA SW
Q16	RF UNIT	TRANSISTOR	2SA1586GR	TX5V REG SW
Q17	RF UNIT	TRANSISTOR	2SA1586GR	RX5V REG SW
Q18	RF UNIT	TRANSISTOR	DTC343TK	RX AF MUTE SW
Q19	RF UNIT	TRANSISTOR	DTC343TK	DSC SW
Q20	RF UNIT	TRANSISTOR	DTC343TK	DSC SW
Q21	RF UNIT	TRANSISTOR	DTC144EUA	UN LOCK SW
Q22	RF UNIT	PHOTO RELAY	TLP112A	NMEA SW
Q201	CNTL UNIT	TRANSISTOR	2SA1586GR	TX PTT SW
Q202	CNTL UNIT	TRANSISTOR	UMH3N	BEEP SW
F1	RF UNIT	CRYSTAL FILTER	21R15A5T	MCF
F2	RF UNIT	CERAMIC FILTER	KBF-450RL-12A	CERAMIC FIL.
CD1	RF UNIT	CERAMIC DISC.	CDBM450C24	DISC
X1	RF UNIT	CRYSTAL	UM-5 21.250MHz	REF CLOCK
X2	RF UNIT	CRYSTAL	HC-49U/4 3.579545MHz	FSK CLOCK
X201	CNTL UNIT	CRYSTAL	CSA-309 4.915200MHz	CPU CLOCK
LC201	CNTL UNIT	LCD	GT-232ZAS	LCD