

IF Unit			
Location	Type	Nomenclature	Application
Q2301	Transistor	2SC4116GR	Noise Amplifier
Q2302	Analog IC	MC3372DR	FM Receiver 2nd-LO, Detector & Noise Detector
Q2303	Transistor	2SA1586Y	Buffer
D2302	Dual Diode	DA204U	Noise Detector

PLL Unit			
Location	Type	Nomenclature	Application
Q2101	Analog Switch	TC4W66F	PLL Lockup Time Switch
Q2102	Dual Transistor	IMD3	Charge Pump
Q2103	Transistor	DTC114TK	Pulse Switch
Q2104	Transistor	DTA144EU	PLL Unlock Switch
Q2105	Analog IC	MB5105PF	PLL Ref. OSC, Divider, Phase Comparator & Prescaler
Q2106	Transistor	DTC144EU	PLL Unlock Switch
Q2107	Transistor	2SC4116GR	Switching Delay
D2102	Varactor Diode	HVU300A	Ref. Mod. Control
D2103	Varactor Diode	HVU300A	Ref. Mod. Control
D2104	Dual Diode	DAN202U	PLL Unlock Switch

VCO Unit			
Location	Type	Nomenclature	Application
Q2401	Transistor	2SC4226-R24	Transmitter VCO
Q2402	Transistor	2SC4226-R24	Buffer Amplifier
Q2403	Transistor	2SC4116GR	Ripple Filter
Q2404	Transistor	2SC4226-R24	Receiver VCO
Q2405	Transistor	DTC124EU	Modulation Switch
Q2406	Dual Transistor	IMH5	Modulation Switch
D2401	Varactor Diode	KV1470	VCO Tuning
D2402	Varactor Diode	1T362	Modulator
D2403	Varactor Diode	HVU306A	VCO Tuning
D2404	Varactor Diode	HVU306A	VCO Tuning

REG Unit			
Location	Type	Nomenclature	Application
Q2201	Transistor	2SA1586Y	DC Amplifier Supply Receiver AF
Q2202	Transistor	2SB1122S	DC Amplifier Supply Receiver AF
Q2203	Voltage Regulator	TK11650U	CONT 5V Regulator
Q2204	Transistor	DTB123EK	CONT 6V Regulator Pass Transistor
Q2205	Transistor	DTA143XK	Receiver 5V Supply Gate
Q2206	Audio IC	TDA2822D	Receiver AF Amplifier
Q2207	Transistor	DTC144EU	Current Limit Switch
Q2208	Transistor	DTC144EU	Current Limit Switch
Q2209	Transistor	DTB123EK	Transmitter 5V Supply Gate
Q2210	Transistor	DTC144EU	PTT Inverter for Receiver 5V Supply Gate

ANT-SW Unit			
Location	Type	Nomenclature	Application
Q2001	Transistor	2SB1182F5	Transmitter Power Control
Q2002	Dual Transistor	FMW1	Transmitter Power Control
Q2003	Transistor	DTC124TK	Transmitter Unlock Switch
D2001	Dual Diode	1SS319	RF Detector
D2002	Dual Diode	1SS319	Temperature Compensator
D2003	Zener Diode	DTZ5.1A	Regulator
D2004	Diode	UM9957F/TR	Antenna Switch
D2005	Diode	RLS135	Antenna Switch
D2006	Diode	RLS135	Antenna Switch

VX-510L Component Application

Control Unit			
Location	Type	Nomenclature	Application
Q1001	Analog IC	FX365CLS	CTCSS Encoder/Decoder
Q1002	EEPROM	NM93C66M8	Programmable Data Storage
Q1003	Dual Transistor	FMG5	TX/BUSY LED Driver
Q1004	Transistor	DTDG23YP	Pilot Lamp Driver
Q1005	Dual OP-AMP	NJM2904V	LPF
Q1006	Comparator	TA75S393F	Comparator
Q1007	Transistor	DTC144EU	Encoder Switch
Q1008	Dual OP-AMP	NJM2904V	IDC AMP
Q1009	Transistor	DTA143EU	TX 5V Supply
Q1010	Analog Switch	TC4W66FU	Option Switch
Q1011	FET	2SK160-K6	Beep Mute Control
Q1012	Reset IC	RN5VL45AA	CPU Power Reset Control
Q1013	Dual Transistor	FMW1	SQL Switch
Q1014	Analog Switch	TC4W53FU	AF/CLONE Switch
Q1015	Transistor	2SA1586Y	PTT Switch
Q1016	Dual Transistor	FMG2	RESET/ACC Switch
Q1017	MOS LSI/IC	M38063M6	CMOS Microprocessor
Q1018	Transistor	2SC4116GR	IDC HPF
Q1020	Transistor	2SC2714Y	Clock Shift Switch
Q1021	Transistor	DTC144EU	MIC Switch
D1001	Dual Diode	DAN202U	Decode Switch
D1002	Dual Diode	DAN202U	SP Control Switch
D1003	Dual Diode	DA227	SP Control Switch
D1004	Dual Diode	DA204U	Static Voltage Protection
D1005	Dual Diode	DAN202U	Reverse Voltage Protection
D1006	Dual Diode	DA204U	Decode Switch

PA Unit			
Location	Type	Nomenclature	Application
Q6001	Transistor	2SC4240	Transmitter RF Power Amplifier
D6001	Diode	MA111	Bias Regulator

Main Unit			
Location	Type	Nomenclature	Application
Q3201	FET	2SK302Y	Receiver RF Amplifier
Q3202	MOS FET	SGM2016AM	Receiver 1st Mixer
Q3203	Transistor	2SC2714Y	IF Amplifier
Q3204	FET	2SK209GR	DC Buffer Amplifier
Q3206	Transistor	2SC3356-R23	Transmitter RF Driver
Q3207	Transistor	2SC2538	Transmitter RF Driver
Q3208	Dual Transistor	FMG5	Transmitter Inhibit Switch
Q3209	Transistor	2SA1298Y	Transmitter Switch
Q3210	Transistor	DTC144EK	LOW Power Control
Q3211	Dual OP-AMP	M5223FP	IDC LPF
D3201-D3204	Varactor Diode	KV1470	Voltage Control BPF
D3205	Varactor Diode	HVU306A	1st Local BPF
D3206	Varactor Diode	HVU306A	1st Local BPF
D3207	Dual Diode	1SS226	Limiting Diode
D3208	Dual Diode	1SS184	Transmit/Receive LO Switch
D3209	Diode	MA111	Bias Regulator
D3210	Diode	RLS135	Antenna Switch
D3211	Diode	MA111	Switching Voltage Offset

LCD Unit			
Location	Type	Nomenclature	Application
Q5001	CMOS LSI	LC75821E	LCD Driver
D5001	Dual LED	LT1EP53A	TX/BUSY Indicator