

ALPHA 77D-DX-SX

PART DESCRIPTION	PART #	SCHEMATIC SYMBOL
BLOWER ASSEMBLY (ROTRON VS37A2-R1)	AHX-X324	BL Rebuild with bearings from www.wbds.com
BLOWER MOTOR (ROTRON) (VS37A2RA025965)	BLX-X107	
BOARD HV CB1-UNSTUFFED	BCX-X110	
BOARD HV CB1-STUFFED	ABX-X030	CB1
BOARD CONTROL CB2-UNSTUFFED	BCX-X111	
BOARD CONTROL CB2-STUFFED	ABX-X033	CB2
BOARD QSK CB3-UNSTUFFED	BCX-X112	
BOARD QSK CB3-STUFFED	ABX-X029	CB3
BOARD WATTMETER CB4-UNSTUFFED	BCX-X118	
BOARD WATTMETER CB4-STUFFED	ABX-X032	CB4
BOARD SWR TRIP WATTMETER, STUFFED	ABX-X020	
BOARD RELAY CB5-UNSTUFFED	BCX-X114	
BOARD RELAY CB5-STUFFED	ABX-X031	CB5
BULB # 334 28V (METERS)	ILX-X102	I1-I4
BULB # 387 28V (SWITCHES)	ILX-X103	I5-I8
BULB COVER RED	ILX-X105	
BULB COVER YELLOW	ILX-X104	
BULB COVER GREEN	ILX-X108	
CAPACITOR 1500pF (FEEDTHROUGH)	CKX-1521	C1-C13,C30-C34
CAPACITOR .002uF 1KV CERAMIC DISC	CDX-2020	C14,C17,C26-C28
CAPACITOR .01uF 50V CERAMIC DISC	CKD-1030	C15,C16,C48,C49,C205,C206
CAPACITOR .01uF DIP MICA (10,000pF)	CMX-1030	C18,C19
CAPACITOR 1000pF 5KV (DOOR-KNOB)	CDX-1020	C20,C21
CAPACITOR .02uF 500V CERAMIC DISC		C22-C25,C50
CAPACITOR .02uF 1KV CERAMIC DISC	CDX-2030-C	C22-C25,C50 (BRD)
CAPACITOR .001uF 5KV (DOORKNOB)	CDX-1020	C35
CAPACITOR .002uF 6KV CERAMIC DISC	CDX-2021	C36,C37,C38
CAPACITOR 500pF 5KV (DOOR-KNOB)	CDX-5010	C40
CAPACITOR 100pF 5KV (DOOR-KNOB)	CDX-1010	C41,C42
CAPACITOR 10-500pF 7.5KV (TUNE)	CGX-5010	C29
CAPACITOR LOAD (RIGHT)	CTX-3810	C43
CAPACITOR LOAD (LEFT)	CTX-8210	C44
CHAIN, BEAD, (for LOAD capacitors)	MDX-X130	SEE NOTE BELOW
CAPACITOR 18pF 1KV	CDX-1800	C45
CAPACITOR 11pF (TRIMMER CAP.)	CTX-1100	C46
CAPACITOR 300pF DIP MICA	CMX-3010	C47
CAPACITOR ARCO 300M CERAMIC VAR		C51-C58 (MANUAL)
CAPACITOR ARCO 313M CERAMIC VAR (1000pf-2155pf)	CVX-2520	C51-C58 (UNIT)
CAPACITOR ARCO 304M CERAMIC VAR (100pf-500pf)	CVX-5010	C51-C58 (UNIT)
CAPACITOR 10uF 25V AXIAL (RF SECTION)	CEX-1060	C59
CAPACITOR 10uF 50V AXIAL	CEX-1061	C301,C201,C202,C209
CAPACITOR 22uF 20V		C207
CAPACITOR 22uF 16V TANT (PARALLEL WITH 47uF)	CLX-2260	C207
CAPACITOR 47uF 35V TANT (PARALLEL WITH 22uF)		C207
CAPACITOR 25uF 4KV (OIL-FILLED)	COX-2560	C39
CAPACITOR 50uF 50V		C210
CAPACITOR 10uF 50V AXIAL	CEX-1061	C210 (BRD)
CAPACITOR .5uF 200V		C203,C204
CAPACITOR .47uF 250V CERAMIC		C203,C204 (BRD)
CAPACITOR .47uF 200V	CZX-4741	C208
CAPACITOR .47uF 250V CERAMIC		C208 (BRD)
CAPACITOR .68uF 400V FILM (PWR SUPPLY)		C59
CAPACITOR .47uF 600V FILM (PWR SUPPLY)	CZX-4743-B	C59 (BRD)
CAPACITOR 220uF 100V AXIAL LEAD	CEX-2270	C212
CAPACITOR 1000uF 50V AXIAL LEAD	CEX-1080	C211
CHAIN, BEAD, FOR LOAD CAPS Supplied by Bead Chain Company, 800-297-4851, Use 13.879" #6 Qualified chain	MDX-X130	
CHIMNEY , 8877	APP-X057	
CONNECTOR XFMR PRIM PIN (MALE)	JPX-X107	
CONNECTOR XFMR PRIM PIN (FEMALE)	JPX-X105	
CONNECTOR XFMR PRIM 15 PIN (FEMALE)	JFX-X106	

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Molex p/n 50-84-2150-P (15 pin, .084")		
CONNECTOR XFMR PRIM 15 PIN (MALE)	JMX-X106	
CONNECTOR CINCH-JONES P406DB (MALE CHASSIS)	JCX-X122	J1
CONNECTOR Newark p/n 39F348 FEMALE, POWER CORD	JCX-X123	P1
CONNECTOR CINCH 10 PIN CONN (CB-2 SOCKET)	JFX-X111	
CONNECTOR DALE 22 PIN CONN (CB-3 / QSK SOCKET)	JFX-X112	
COUPLER, 3-PART FLEX (for vacuum variable shaft)	MDX-X137	
CRANK HANDLE FOR TURNS COUNTER, MACHINED	SCX-X105	
DIAL PLATE LOAD	SKX-X106	
DIAL PLATE BAND	SKX-X107	
DIODE 1N4148 (1N914B) (RF SECTION)	DRX-X107	D1-D4,D9,D10
DIODE 1N4004 (RF SECT/FRNT PANEL)	DRX-X102	D1-D4,D5-D8,D11,D12,D301-D303 D211,D216,D205,D202,D207,D215 D204,D215,D204,D305-D311,D210 D209,D213,D214 D203
DIODE 1N4722 400V PIV 3A		
DIODE 1N5404	DRX-X108	D203 (BRD)
DIODE RED LED (ALC) (FRONT PANEL)	DLX-X102	D5
DIODE 5KV RECTIFIER (SEMTECH SCH5000)	DRX-X106	D13-D16
DIODE 1N4722 400V PIV 3A	DRX-X108	D17 (SX MODELS-4 IN SERIES)
DIODE ZENER 1N4757A	DZX-X104	D19
DIODE ZENER 1N4746 18V 1W	DZX-X103	D304,D201,D212
DIODE ZENER 1N5344 8.2V 5W	DZX-X105	D206
DIODE ZENER 1N4740 10V	DZX-X102	D208
FEET, RECESSED RUBBER BUMPERS	MSX-X042	
FUSE 20A 250V CERAMIC (77D,DX)	FSX-X109	F1,F2
FUSE 25A 250V CERAMIC (77SX)	FSX-X110	F1,F2
FUSE 2A 250V GLASS SLOW BLOW (77DX)	FSX-X111	F3
FUSE 3A 250V GLASS SLOW BLOW (77SX)	FSX-X103	F3
FUSE HOLDER (F1,F2)	FHX-X102	
FUSE HOLDER (F3)	FHX-X103	
GEAR, 18 TOOTH METAL, TAPPED FOR #10 SETSCREW	IHA-1119	
GEAR, 18 TOOTH METAL, NOT TAPPED	MDX-X141	
GEAR, 18 TOOTH PLASTIC, TAPPED W/SETSCREW	IHA-1118	
GEAR, 12 TOOTH METAL, TAPPED FOR #10 SETSCREW	IHA-6136	
GEAR, 12 TOOTH METAL, NOT TAPPED	MDX-X135	
INDUCTOR (CHOKE) 15uH 1A	LCX-X102	L2,L12,L13,L201
INDUCTOR (CHOKE) 15uH 1A	LCX-X101	L9
INDUCTOR (RF CHOKE) 2.5mH 300mA	LCX-X105	L14,L15
INDUCTOR (RF CHOKE) 1mH (1000uH)	LCX-X104	L17
INDUCTOR (TOROID) (RF OUTPUT)	ACX-X135	L16
INDUCTOR AIR CORE 7 TURN (RF SECTION)	ACX-X132	L10
INDUCTOR (PLATE CHOKE) SOLID,RED 90uH	LCX-X103	L8
INDUCTOR (TOROID) 160m TRIPLE CORE	ACX-X137	L7
INDUCTOR (TOROID) LUMPED DOUBLE CORE	ACX-X138	L6
INDUCTOR (TOROID) 80m TRIPLE CORE	ACX-X136	L5
INDUCTOR (TANK COIL)	ACX-X113	L4
INDUCTOR AIR CORE 7 TURN (TUBE DECK)		L1
INDUCTOR (TOROID) SINGLE CORE 12 TURN	ACX-X139	L11
INDUCTOR (TOROID-XFMR) (TUBE DECK, SX ONLY)	ACX-X133	T2
KNOB BAND / LOAD	SKX-X104	
KNOB DIAL PLATE-SILKSCREEN BAND	SKX-X107	
KNOB DIAL PLATE-SILKSCREEN LOAD	SKX-X106	
KNOB DIAL PLATE-NON-SILKSCREEN CENTER		
KNOB TUNE (CRANK / BACK PLATE)	SCX-X101	
LED COVER RED (ALC)	ILX-X106	
MANUAL 77D,DX,SX	ZMX-X104	
METER AMMETER 0-1A SCALE (MODUTEC #00-830329B)	MPX-X102	M1
METER MULTIMETER (MODUTEC #00-830330B)	MPX-X101	M2
METER BEZEL (MODUTEC 3BA1)	MPX-X112	
PANEL FRONT RACK MOUNT	MSX-X051	
PANEL FRONT STANDARD	MSX-X050	
PANEL LEFT SIDE	AHX-X304	
PANEL RIGHT SIDE	AHX-X305	
PANEL SIDE (SHEET METAL ONLY)	MSX-X044	
PANEL TOP	MSX-X043	

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PARASITIC CHOKE	ACX-X140	L3
PARASITIC CHOKE (2ND TUBE)	ACX-X141	L18-(77SX)
PIN XFMR PRIM 10-12 GAUGE (FEMALE)	JPX-X111	
PIN XFMR PRIM 14-20 GAUGE (MALE)	JPX-X107	
PIN XFMR PRIM (MALE)	JPX-X110	
RELAY AC POWER ON (AROMAT HL2)	KDX-X101	K1 (black enclosed relay)
RELAY AC STEP START (AROMAT HL2)	KDX-X101	K2 (black enclosed relay)
RELAY POWER ON (ALLIED BOT6D) 26.5VDC	KDX-X113	K1 (open frame relay)
RELAY STEP-START (ALLIED BOT6D) 26.5VDC	KDX-X113	K2 (open frame relay)
RELAY HIGH VOLT (W158-HVX-1-24V) See next line	KDX-X108	K3
Use STRUTHERS DUNN W158HVX-1 (they bought Magnecraft)		K3
RELAY RF INPUT MAGNECRAFT (W102RMX7)	KDX-X116	K4
Replacement relay for K4 from GigaVac		
RELAY T/R VACUUM (KILOVAC HC-1)	KVX-X105	K5
RELAY PLATE OVERCURRENT (SOLENOID) FRONT PNL	KDX-X110	K7
RELAY QSK DPDT (Tyco R10-E2-Y2-V700 24v)	KDX-X109	K301
RELAY KEYING DRIVER (1A24AH 24V)	KXX-X102	K302
RELAY TIME DELAY (GUARDIAN 1575-1C-24D)	KDX-X115	K201,K202
RELAY TIME DELAY (MAGNECRAFT W178RE1-24DC)	KDX-X115	K201,K202
RELAY TIME DELAY REED (LG101-1-5) (Older CB-2)	KXX-X101	K202
Note: CB-2 layouts vary, may use one or two KXX-X101 and/or one or two KDX-X115 relays (earliest = 2 x KXX part)		
RESISTOR 4.7 OHM 1/4W	RFF-B47A-C	R211
RESISTOR 100 OHM 1/4W	RFF-B101-C	R213,R219
RESISTOR 390 OHM 1/4W	RFF-B391-C	R312
RESISTOR 600 OHM 5W WW	RFW-H601	R301
RESISTOR 1K OHM 1/4W	RFF-B102-C	R304,R309,R225,R215,R217,R232,R214
RESISTOR 12K OHM 2W (RF SECTION)	RFC-E123-D	R1,R5
RESISTOR 2.2K OHM 1W (RF SECTION)	RFC-D222-D	R2
RESISTOR 2.7K OHM 1/4W	RFF-B272-C	R209
RESISTOR 100 OHM 2W 10% (PARASITIC)		R3-R6 (MANUAL)
RESISTOR 100 OHM 2W 5% (PARASITIC)	RFC-E101-C	R3-R6 (UNIT)
RESISTOR 22 OHM 1/2W 10% (RF SECTION)		R7,R8 (MANUAL)
RESISTOR 22 OHM 1/2W 5% (RF SECTION)	RFC-C220-C	R7,R8 (UNIT)
RESISTOR 8.2K OHM 1/4W (RF SECTION)	RFF-B822-C	R9
RESISTOR 21K OHM 1/4W (RF SECTION)		R10
RESISTOR 8.2K OHM (RF SECTION)	RFF-B822-C	R12
RESISTOR (POT.) FLAT		R12 (BRD)
RESISTOR 2.5K OHM (TRIMMER POT.)	RKV-2520	R208
RESISTOR 100 OHM (TRIMMER POT.)	RKX-1010	R212
RESISTOR 5K OHM (TRIMPOT)(RF SECTION)	RKX-5200	R11
RESISTOR 10 OHM 25W (PS/CHASSIS)	RFW-R100	R1,R2
RESISTOR 700 OHM 8W (PS/CHASSIS)	RFW-L701	R3
RESISTOR 75 OHM 25W VAR (PS/CHASSIS)		R4
RESISTOR 50 OHM 25W VAR (PS/CHASSIS)	RPP-5000	R4 (UNIT)
RESISTOR 150K OHM 50W (PS/CHASSIS) * * * * *	RFW-5154	R6,R7 See Note to left, next line.
Above resistors out of production, use Ohmite 270 Series #L50J250K for replacements (Newark #02F2334, \$17). The larger resistance runs cooler. Use HH Smith 2664 washers.		
	RFW-5254	New part number for 250k resistors
RESISTOR 50 OHM 50W (PS/CHASSIS)	RFW-5500	R8
RESISTOR 470 OHM 1/4W	RFF-B471-C	R229,R220
RESISTOR 12K OHM 1/4W	RFF-B123-C	R9,R314,R315,R306,R205,R223,R224,R216
RESISTOR 1 MEG OHM (PS/CHASSIS)	RFC-C1004-A	R10-R14
RESISTOR 1.5K OHM 2W (FRNT PANEL)	RFC-E152-D	R1
RESISTOR 2 OHM 3W (FRNT PANEL)	RFW-G20A	R2 (77D ONLY),R3 (77SX ONLY)
RESISTOR 2 OHM 5W	RFW-H20A	R203,R204
RESISTOR 100K OHM 1/4W (QSK BRD)	RFF-B104-C	R303,R302,R305,R308,R311,R310,R313,R316
		R317
RESISTOR 680 OHM 2W	RFC-E681-D	R228
RESISTOR 820 OHM 1W	RFC-D821-D	R22,R218
RESISTOR 4.7K OHM 1/4W	RFF-B472-C	R207,R201,R231
RESISTOR 10K OHM 1/4W	RFF-B103-C	R206
RESISTOR 3.9K OHM 1/4W	RFF-B392-C	R202
RESISTOR 47K OHM 1/4W	RFF-B473-C	R210,R230
RESISTOR 10MEG OHM 1/4W	RFF-B106-C	R222
RESISTOR 3.9MEG OHM 1/4W	RFF-B395-C	R222 (BRD)

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RESISTOR 2.2K OHM 1/2W	RFC-C222-C	R227
RESISTOR 100 OHM 1/4W	RFF-B101-C	R227 (BRD)
RF SECTION TOP COVER PLATE	MSX-X029	
RF SECTION SIDE SHIELD	MSX-X030	
SHIPPING BOX (AMP) (SAME AS "EXPORT" BOX)	ZCX-X107	
SHIPPING FOAM (AMP) (NEW FOAM FRAME, 4 PARTS)	ZFX-X145	
Foam cradle and box cust price as of 06 Jun 02 \$101.56		
SHIPPING BOX (XFMR) not available	ZCX-X106	
SHIPPING FOAM (XFMR) not available	ZFX-X107	
SHIPPING FOAM (XFMR) not available	ZFX-X109	
SWITCH TUNED / NOT TUNED (TUBE DECK)	SSX-X101	S1
SWITCH MULTIMETER PUSHBUTTON	SPX-X102	S4
SWITCH POWER / MODE PUSHBUTTON	SPX-X102	S5
SPX-X102 = SWITCHCRAFT 67041K-506		
Switch cap is # DW305		
SWITCH RX ANTENNA (AUX OR THRU)	SSX-X102	S8
SWITCH HV CROWBAR ARM (PLASTIC)	IHP-1065	
SWITCH HV CROWBAR METAL CONTACT	IHA-1181	
SWITCH HV CROWBAR METAL CONTACT	IHK-1241	
SWITCH COVER INTERLOCK	SIX-X103	S9
SWITCH BANDSWITCH	SRX-X104	S3
Bandswitch - Multi-Tech Industries p/n R86201130003		
TANK COIL SUPPORT (PLASTIC CORE)	IHC-1093	
TOP PANEL (COVER)	MSX-X043	
TOP PANEL PLATE (RF SECTION)	MSX-X029	
TRANSFORMER	TPX-X108	T1 (DX,SX & UX ONLY)
TRANSISTOR 2N3904 (early CB-2 used 2N5826, same ckt)	QTX-X104	Q201,Q203-Q206,Q302-Q307
TRANSISTOR 2N6027 (PUT)	QTX-X103	Q207
TRANSISTOR 2N5061 (SCR)	QTX-X102	Q208
TRANSISTOR MJE-802 (Q301 is 2N5822 on early CB-3)	QTX-X101	Q301,Q202
TRANSISTOR MFE-122 or MPF-121 (use NTE-222)		Q207 early CB-2
Above Q207 part used for timer on early CB-2		
TRIM ALUMINUM FRONT TOP/BOTTOM	MSX-X045	
TRIM ALUMINUM FRONT VERT	MSX-X046	
TRIM ALUMINUM REAR VERT	MSX-X047	
TRIM ALUMINUM TOP OF SIDE PANELS	MSX-X048	
TRIM ALUMINUM BOTTOM OF LEFT SIDE PANEL	MSX-X049-L	
TRIM ALUMINUM BOTTOM OF RIGHT SIDE PANEL	MSX-X049-R	
TUBE 8877 TRIODE (EIMAC)	VTX-X101	V1(V1,V2 FOR 77SX)
TUBE TEFLON COLLAR (EIMAC SK2216)	VCX-X104	
Metal clips for teflon chimney collar	HCX-X204	
TUBE SOCKET 8877	VSX-X101	
TUBE CHIMNEY, 8877	APP-X057	
TUBE EXHAUST PLENUM, Single-tube 77Dx	MSX-X038-A	
TUBE DECK ASSEMBLY, 77D, SINGLE 8877	AHX-X307	
TUBE DECK COVER PLATE, FOR 77D (ONE TUBE)	MSX-X037	
TURNS COUNTER FOR TUNE CAPACITOR	SCX-X101	
NEW MACHINED CRANK HANDLE FOR COUNTER	SCX-X105	
VOLTAGE REGULATOR MC 7824 24V	QTX-X107	