

BILL OF MATERIAL FOR COBRA 78X

CIRCUIT SYMBOL	DESCRIPTION	DYNASCAN PART NO.
SEMICONDUCTORS		
IC-1	Integrated Circuit,	MB3712 307-151-9-001
IC-2	Integrated Circuit,	TA7310P 307-133-9-004
IC-3	Integrated Circuit,	TC9109P 307-151-9-002
TR-8,10	Transistor,	2SA733P 177-020-9-001
TR-6,7,9,12	Transistor,	2SC945A-Q 176-062-9-001
TR-1,2	Transistor,	2SC1342-B 176-074-9-001
TR-3,4,5,11	Transistor,	2SC1675-M 176-060-9-002
TR-14	Transistor,	2SC2028-B/20 172-038-9-001
TR-15	Transistor,	2SC2029-B/10 172-038-9-002
TR-13	Transistor,	2SC2076-C 176-060-9-004
D-7	Diode,	1S2075-K 151-028-9-001
D-1,2,3,8,9,13,14	Diode,	1S2076 151-067-9-001
D-4,5	Diode,	1N60-AM 150-014-9-001
D-10,17	Diode,	SRIK-1 151-040-9-003
D-6	Diode,	1S34 150-016-9-001
D-15	Diode, Zener,	CZ-094 152-093-9-001
D-11	Diode, Zener,	WZ-071 152-075-9-001
D-16	Diode, Zener,	05Z7.5-UNI 152-090-9-001
D-12	Diode, Vari-Cap,	1S2688-EA 154-004-9-001
INDUCTORS		
L-7	Coil,	LA-204 046-024-9-003
L-8	Coil,	LA-207 046-025-9-001
L-11	Coil,	LA-208 060-029-9-004
L-1	Coil,	LA-279 046-027-9-001
L-2	Coil,	LA-280 046-027-9-002
L-6	Coil,	LA-281 046-027-9-003
L-9	Coil,	LA-282 046-027-9-004
L-10	Coil,	LA-283 046-027-9-005
L-3	Coil,	LB-118 046-027-9-006
L-4	Coil,	LB-119 046-027-9-007
L-12,15,18	Coil,	LC-018 041-056-9-003
L-14	Coil,	LD-012 041-069-9-004
L-19	Ferrite Bead Core,	LD-087 044-048-9-003
L-20	Ferrite Bead Core,	LD-088 044-051-9-001
L-16	Coil,	LE-088 041-104-9-001
L-17	Coil,	LE-089 041-104-9-002
L-13	Inductor, Molded,	LZ-002 (4.7 μ H) 041-093-9-004
L-5	Inductor, Molded,	LZ-002 (10 μ H) 041-062-9-001
T-2	Coil AF Choke,	TF-017 042-014-9-001
T-1	Transformer, Output,	TF-120 061-041-9-001
SEMI-FIXED & VARIABLE RESISTORS		
VR-1	Resistor, Variable,	RV-320 50K ohm A 008-347-9-002
VR-2	Resistor, Variable,	RV-331 50K ohm B 008-347-9-003
VR-7	Resistor, Semi-fixed,	RV-189 300 ohm B 008-345-9-001
VR-4,6	Resistor, Semi-fixed,	RV-189 20K ohm B 008-316-9-003

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DESCRIPTION

DYNASCAN
PART NO.

SEMI-FIXED & VARIABLE RESISTORS (Continued)

VR-3,5	Resistor, Semi-fixed, RV-189	50K ohm	B	008-316-9-002
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FIXED RESISTORS

R-41	Resistor, Metal Oxide,	100 ohm	2W	±10%	..	426-043-9-001
R-39,60	Resistor, Metal Oxide,	47 ohm	1W	±10%	..	013-038-9-002
R-58	Resistor, Carbon, Axial Lead	2.2K ohm	1/4W	±5%	..	002-104-5-222
R-13	Resistor, Carbon, Axial Lead	100 ohm	1/8W	±5%	..	002-108-5-101
R-9,80	Resistor, Carbon, Axial Lead	220 ohm	1/8W	±5%	..	002-108-5-221
R-40	Resistor, Carbon, Axial Lead	1K ohm	1/8W	±5%	..	002-108-5-102
R-11,36	Resistor, Carbon, Axial Lead	2.2K ohm	1/8W	±5%	..	002-108-5-222
R-51	Resistor, Carbon, Axial Lead	4.7K ohm	1/8W	±5%	..	002-108-5-472
R-30,42	Resistor, Carbon, Axial Lead	10K ohm	1/8W	±5%	..	002-108-5-103
R-27	Resistor, Carbon, Axial Lead	22K ohm	1/8W	±5%	..	002-108-5-223
R-28	Resistor, Carbon, Axial Lead	100K ohm	1/8W	±5%	..	002-108-5-104
R-91	Resistor, Carbon, Formed VERT	1 ohm	1/8W	±5%	..	002-108-5-109
R-14	Resistor, Carbon, Formed VERT	10 ohm	1/8W	±5%	..	002-108-5-100
R-53	Resistor, Carbon, Formed VERT	12 ohm	1/8W	±5%	..	002-108-5-120
R-56,61,81	Resistor, Carbon, Formed VERT	22 ohm	1/8W	±5%	..	002-108-5-220
R-62,77,78	Resistor, Carbon, Formed VERT	47 ohm	1/8W	±5%	..	002-108-5-470
R-12	Resistor, Carbon, Formed VERT	150 ohm	1/8W	±5%	..	002-108-5-151
R-79	Resistor, Carbon, Formed VERT	220 ohm	1/8W	±5%	..	002-108-5-221
R-1,5,44,59	Resistor, Carbon, Formed VERT	330 ohm	1/8W	±5%	..	002-108-5-331
R-89	Resistor, Carbon, Formed VERT	470 ohm	1/8W	±5%	..	002-108-5-471
R-55	Resistor, Carbon, Formed VERT	820 ohm	1/8W	±5%	..	002-108-5-821
R-6,8,38	Resistor, Carbon, Formed VERT	1K ohm	1/8W	±5%	..	002-108-5-102
R-3,46,47	Resistor, Carbon, Formed VERT	1.5K ohm	1/8W	±5%	..	002-108-5-152
R-7,49,34	Resistor, Carbon, Formed VERT	2.2K ohm	1/8W	±5%	..	002-108-5-222
R-2,4,23	Resistor, Carbon, Formed VERT	3.3K ohm	1/8W	±5%	..	002-108-5-332
R-26,50,54	Resistor, Carbon, Formed VERT	4.7K ohm	1/8W	±5%	..	002-108-5-472
R-10,31	Resistor, Carbon, Formed VERT	5.6K ohm	1/8W	±5%	..	002-108-5-562
R-24,35,37,94,95	Resistor, Carbon, Formed VERT	10K ohm	1/8W	±5%	..	002-108-5-103
R-48	Resistor, Carbon, Formed VERT	15K ohm	1/8W	±5%	..	002-108-5-153
R-16,43,52	Resistor, Carbon, Formed VERT	22K ohm	1/8W	±5%	..	002-108-5-223
R-25	Resistor, Carbon, Formed VERT	27K ohm	1/8W	±5%	..	002-108-5-273
R-15,19,22	Resistor, Carbon, Formed VERT	47K ohm	1/8W	±5%	..	002-108-5-473
R-18,20,21	Resistor, Carbon, Formed VERT	56K ohm	1/8W	±5%	..	002-108-5-563
R-45	Resistor, Carbon, Formed VERT	82K ohm	1/8W	±5%	..	002-108-5-823
R-33	Resistor, Carbon, Formed VERT	100K ohm	1/8W	±5%	..	002-108-5-104
R-32	Resistor, Carbon, Formed VERT	220K ohm	1/8W	±5%	..	002-108-5-224
R-17	Resistor, Carbon, Formed VERT	680K ohm	1/8W	±5%	..	002-108-5-684
R-92	Resistor, Carbon, Formed VERT	560K ohm	1/8W	±5%	..	002-108-5-564
R-93	Resistor, Carbon, Formed VERT	3.9M ohm	1/8W	±5%	..	002-108-5-395
R-90	Resistor, Carbon, Formed VERT	560 ohm	1/8W	±5%	..	002-108-5-561

CAPACITORS

C-36	Capacitor, Tantalum,	2.2μF	25V	±20%	.....	027-031-9-001
C-73,74,50	Capacitor, Tantalum,	4.7μF	10V	±20%	.....	027-026-9-005
C-5	Capacitor, Tantalum,	10μF	10V	±20%	.....	027-025-9-001
C-42	Capacitor, Al Solid,	0.22μF	16V	±20%	.....	022-158-9-001
C-30,33,49	Capacitor, Electrolytic,	1μF	50V	.....	.....	022-157-9-002
C-21	Capacitor, Electrolytic,	4.7μF	35V	.....	.....	022-182-9-001
C-24,34,48	Capacitor, Electrolytic,	10μF	16V	002-157-9-004
C-45	Capacitor, Electrolytic,	47μF	10V	022-160-9-002

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CAPACITORS (Continued)

C-119,51	Capacitor, Electrolytic,	33 μ F	10V	022-158-9-005
C-11,37	Capacitor, Electrolytic,	33 μ F	16V	.....	022-157-9-006
C-54	Capacitor, Electrolytic,	100 μ F	10V	.....	022-157-9-008
C-26	Capacitor, Electrolytic,	100 μ F	16V	.....	022-157-9-009
C-101	Capacitor, Electrolytic,	100 μ F	25V	.....	022-173-9-001
C-96	Capacitor, Electrolytic,	220 μ F	10V	.....	022-171-9-002
C-98	Capacitor, Electrolytic,	470 μ F	10V	.....	022-160-9-001
C-41,94	Capacitor, Electrolytic,	470 μ F	16V	.....	022-076-9-008
C-31,40	Capacitor, Mylar,	0.001 μ F	25V \pm 20%	.....	025-134-9-001
C-32	Capacitor, Mylar,	0.0022 μ F	25V \pm 20%	.....	025-134-9-002
C-29,47	Capacitor, Mylar,	0.0047 μ F	25V \pm 20%	.....	025-134-9-003
C-38,72	Capacitor, Mylar,	0.022 μ F	25V \pm 20%	.....	025-137-9-006
C-46	Capacitor, Mylar,	0.033 μ F	25V \pm 20%	.....	025-137-9-003
C-18,22	Capacitor, Mylar,	0.039 μ F	25V \pm 20%	.....	025-134-9-006
C-75	Capacitor, Mylar,	0.047 μ F	25V \pm 20%	.....	025-137-9-004
C-116	Capacitor, Mylar,	0.1 μ F	25V \pm 20%	.....	025-137-9-005
C-15	Capacitor, Ceramic,	47pF	50V \pm 10%	CH ..	020-180-9-006
C-60	Capacitor, Ceramic,	10pF	50V \pm 10%	RH ..	020-220-9-001
C-57	Capacitor, Ceramic,	18pF	50V \pm 10%	RH ..	020-220-9-002
C-1	Capacitor, Ceramic,	27pF	50V \pm 10%	RH ..	020-210-9-006
C-58	Capacitor, Ceramic,	33pF	50V \pm 10%	RH ..	020-205-9-003
C-67	Capacitor, Ceramic,	56pF	50V \pm 10%	RH ..	020-208-9-002
C-61,66	Capacitor, Ceramic,	150pF	50V \pm 10%	RH ..	020-207-9-008
C-68	Capacitor, Ceramic,	180pF	50V \pm 10%	RH ..	020-204-9-011
C-59	Capacitor, Ceramic,	47pF	50V \pm 10%	UJ ..	020-207-9-002
C-17	Capacitor, Ceramic,	1pF	50V \pm 0.25pF	SL ..	020-190-9-001
C-14	Capacitor, Ceramic,	2pF	50V \pm 0.25pF	SL ..	020-187-9-001
C-92	Capacitor, Ceramic,	3pF	50V \pm 0.25pF	SL ..	020-190-9-003
C-63	Capacitor, Ceramic,	5pF	50V \pm 0.25pF	SL ..	020-180-9-009
C-118	Capacitor, Ceramic,	10pF	50V \pm 10%	SL ..	020-181-9-004
C-71	Capacitor, Ceramic,	22pF	50V \pm 10%	SL ..	020-180-9-011
C-82	Capacitor, Ceramic,	33pF	50V \pm 10%	SL ..	020-180-9-012
C-86,90,91,136	Capacitor, Ceramic,	56pF	50V \pm 10%	SL ..	020-196-9-004
C-117	Capacitor, Ceramic,	82pF	50V \pm 10%	SL ..	020-220-9-003
C-62	Capacitor, Ceramic,	100pF	50V \pm 10%	SL ..	020-180-9-016
C-76	Capacitor, Ceramic,	220pF	50V \pm 10%	SL ..	020-180-9-019
C-88,89,134	Capacitor, Ceramic,	330pF	50V \pm 10%	SL ..	020-181-9-008
C-20	Capacitor, Ceramic,	680pF	50V \pm 10%	SL ..	020-187-9-007
C-83	Capacitor, Ceramic,	200pF	50V \pm 10%	SL ..	020-180-9-017
C-103,113,114,129	Capacitor, Ceramic,	0.001 μ F	50V \pm 20%	YF ..	020-190-9-012
C-28	Capacitor, Ceramic,	0.0047 μ F	50V \pm 20%	YF ..	020-190-9-014
C-2,3,4,6,7,8,9,10,12,13, 43,44,52,53,55,56,64, 65,70,78,79,80,87,95, 97,99,100,102,104,105, 106,107,108,109,110, 111,112,120,121,123, 124,126,127,135,137	Capacitor, Ceramic,	0.01 μ F	50V \pm 20%	YF ..	020-190-9-015
C-16,19,23,25,27,93	Capacitor, Ceramic,	0.039 μ F	25V \pm 20%	ZF ..	020-206-9-001
C-85	Capacitor, Ceramic,	0.039 μ F	50V \pm 20%	YF ..	020-220-9-004
C-69	Capacitor, Ceramic,	560pF	50V \pm 10%	YB ..	020-190-9-020
C-35	Capacitor, Ceramic,	0.001 μ F	50V \pm 10%	YB ..	020-210-9-007
C-77,81	Capacitor, Ceramic,	0.01 μ F	50V \pm 10%	YB ..	020-177-9-024
C-39	Capacitor, Semiconductor,	0.1 μ F	25V \pm 20%	BC ..	020-210-9-008

**CIRCUIT
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DESCRIPTION

**DYNASCAN
PART NO.**

CRYSTAL

X-1 Crystal, 10.240 MHz, QX-074 ... 132-027-9-001

MISCELLANEOUS

	PC Board, Main PCB	PC-437 AB	302-355-9-001
	PC Board, CH SW PCB	PC-449AA	302-356-9-001
FL-1	Filter, Ceramic,	FL-048	140-020-9-001
FL-2	Filter, Ceramic,	FL-066	140-022-9-001
S-4	Switch, Rotary,	SR-227	083-247-9-001
S-2,3	Switch, Slide,	SW-054	084-051-9-001
SP-1	Speaker,	SP-052	580-028-9-001
M-1	Meter,	MT-134	320-095-9-001
	Microphone,	MK-075	562-025-9-001
PL-2	Pilot Lamp,	PL-005	400-033-9-001
J-1	Connector, M Type, ANT,	JK-035	772-027-9-001
J-2	Jack, Microphone,	JK-058	773-073-9-001
J-5	Receptacle, DC Power,	JK-052	762-020-9-001
J-3,4	Jack,	JK-089	773-086-9-001
TP-1,2	Terminal, Check Point,	TP-029	757-033-9-001
F-1	Fuse,	FS-012	191-251-3-002
	Insulation sheet, TR-15	YY-027	342-039-9-001
	Insulation sheet, IC-1	YD-046	342-060-9-001
	Clamper, Wire,	YY-047	380-278-9-001
FC-1	Flat Cable,	WF-104	426-053-9-001
	DC Power Cord,	W-070088	426-020-9-001
	Chassis	SPCC t=1 ZMC	257-111-9-001
	Cover, Top	SB-K08 Black	253-070-9-001
	Cover, Bottom	SB-K08 Black	252-028-9-001
	Mounting Bracket	SPCC t=1.6 ZMC	251-236-9-001
	Heat Sink	AIP t=1.5	747-067-9-001
	Hanger, Microphone	SPCC t=1 Ni	741-074-9-001
	Panel, Front	ABS Cr-1	255-142-9-001
	Knob, Channel	ABS Cr-1	751-170-9-001
	Knob	ABS Cr-1	751-095-9-002
	Channel Disk		763-120-9-001
	Nameplate, Front	AIP t=0.5	600-053-9-001
	ID Plate, FCC	AIP t=1	600-053-9-002
	Label, Serial No		483-338-9-001
	Label, Serial No		484-035-9-001
	Label, Warning, DC Cord		634-101-9-001
	Mounting Screw	BsBM Ni	763-069-9-001
	Illumination Plate	t=1	769-086-9-001
	Wool-coated Paper, Wool Tack		347-074-9-003
	Washer, Rubber	t=2	634-051-9-001
	Screw, Pan Hd.	Plastic, M 3 x 6	634-101-9-002
	Screw, Pan Hd.	Plastic, M 3 x 8	634-067-9-004
	Screw, Flat Hd.	Ni, M 3 x 5	634-069-9-002
	Screw, Bind Hd.	Ni, M 2 x 4	634-053-9-001
	Screw, Bind Hd.	Ni, M 3 x 6	634-067-9-001
	Screw, Bind Hd.	Ni, M3 x 8	710-020-9-001
	Tapping Screw, Round Hd,	ZMC, 3.5 x 8	710-021-9-002
	Tapping Screw, Round Hd,	ZMC, 5 x 10	710-021-9-004
	Taptite Screw Bind Hd,	ZMC M3 x 6	653-026-9-001
	Nut, Hex, Ni, M2		634-024-9-001
	Nut, Hex, Ni, M3		

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MISCELLANEOUS (Continued)

Nut, Flange, ZMC, M3	653-026-9-002
Washer, Lock, ZMC 3.5φ	731-041-9-001
Washer, Star, ZMC 5φ	731-041-9-002
Retainer Ring, CS Type, 10φ	731-041-9-003
Bushing, Rubber	381-087-9-001
Knob Spring	763-084-9-004
Rivet, AL, ID Plate	733-022-9-001
Styrofoam Pad	503-160-9-001
Styrofoam Pad	503-160-9-002
Display Box	500-397-9-001
Shipping Carton Box	500-397-9-002
Owners Manual	480-239-9-001
Bill of Material/ Schematic Diagram	499-145-9-001
Warranty Card	491-191-9-001
Service Station Card	492-042-0-000
FCC Application Form 505	492-041-9-001
Temporary Permit Form 555-B	492-046-9-001
FCC Rules Part 95	492-047-9-001

499-145-9-001