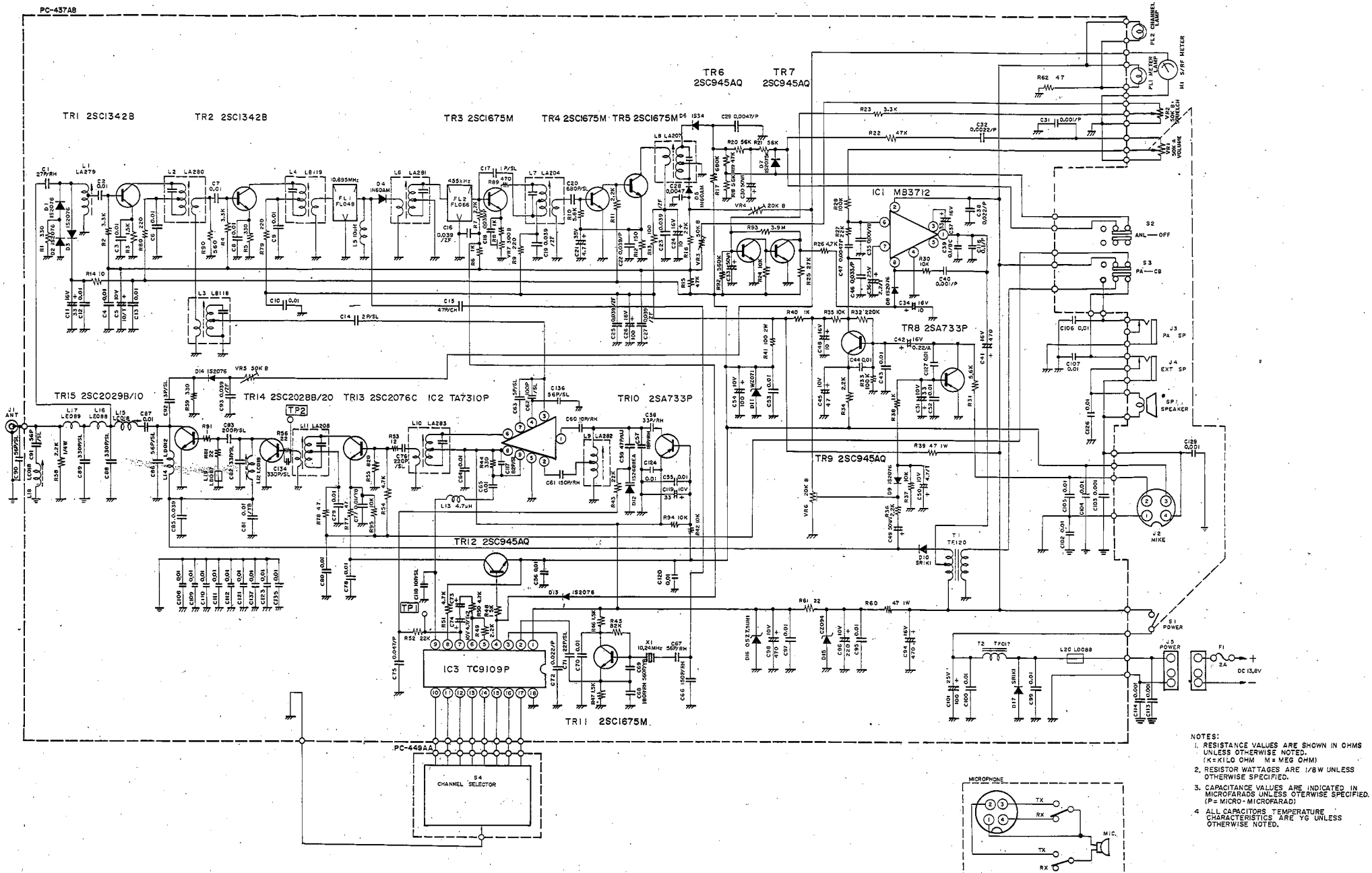
CIRCUIT DIAGRAM FOR COBRA 78X



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, 3RIK-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	041-089-9-004
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 μH)	041-093-9-004
L-5	Inductor, Molded, LZ-002 (10 μH)	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
VR-3,5	Resistor, Semi-fixed, RV-189 50K ohm B	008-316-9-002
	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

CIRCUIT SYMBOL	DESCRIPTION	DYNASCAN PART NO.
	CAPACITORS (Continued)	
C-119,51	Capacitor, Electrolytic, 33μF 10V	022-158-9-005
C-11,37	Capacitor, Electrolytic, 33μF 16V	022-157-9-006
C-54	Capacitor, Electrolytic, 100μF 10V	022-157-9-008
C-26	Capacitor, Electrolytic, 100μF 16V	022-157-9-009
C-101	Capacitor, Electrolytic, 100μF 25V	022-173-9-001
C-96	Capacitor, Electrolytic, 220μF 10V	022-171-9-002
C-98	Capacitor, Electrolytic, 470μF 10V	022-160-9-001
C-41,94	Capacitor, Electrolytic, 470μF 16V	022-076-9-008
C-31,40	Capacitor, Mylar, 0.001μF 25V ±20%	025-134-9-001
C-32	Capacitor, Mylar, 0.0022μF 25V ±20%	025-134-9-002
C-29,47	Capacitor, Mylar, 0.0047μF 25V ±20%	025-134-9-003
C-38,72	Capacitor, Mylar, 0.022μF 25V ±20%	025-137-9-006
C-46	Capacitor, Mylar, 0.033μF 25V ±20%	025-137-9-003
C-18,22	Capacitor, Mylar, 0.039μF 25V ±20%	025-134-9-006
C-75	Capacitor, Mylar, 0.047μF 25V ±20%	025-137-9-004
C-116	Capacitor, Mylar, 0.1μF 25V ±20%	025-137-9-005
C-15	Capacitor, Ceramic, 47pF 50V ±10% CH	020-180-9-006
C-60	Capacitor, Ceramic, 10pF 50V ±10% RH	020-220-9-001
C-57	Capacitor, Ceramic, 18pF 50V ±10% RH	020-220-9-002
C-1	Capacitor, Ceramic, 27pF 50V ±10% RH	020-210-9-006
C-58	Capacitor, Ceramic, 33pF 50V ±10% RH	020-205-9-003
C-67	Capacitor, Ceramic, 56pF 50V ±10% RH	020-208-9-002
C-61,66	Capacitor, Ceramic, 150pF 50V ±10% RH	020-207-9-008
C-68	Capacitor, Ceramic, 180pF 50V ±10% RH	020-204-9-011
C-59	Capacitor, Ceramic, 47pF 50V ±10% UJ	020-207-9-002
C-17	Capacitor, Ceramic, 1pF 50V ±0.25pF SL	020-190-9-001
C-14	Capacitor, Ceramic, 2pF 50V ±0.25pF SL	020-187-9-001
C-92	Capacitor, Ceramic, 3pF 50V ±0.25pF SL	020-190-9-003
C-63	Capacitor, Ceramic, 5pF 50V ±0.25pF SL	020-180-9-009
C-118	Capacitor, Ceramic, 10pF 50V ±10% SL	020-181-9-004
C-71	Capacitor, Ceramic, 22pF 50V ±10% SL	020-180-9-011
C-82	Capacitor, Ceramic, 33pF 50V ±10% SL	020-180-9-012
C-86,90,91,136	Capacitor, Ceramic, 56pF 50V ±10% SL	020-196-9-004
C-117	Capacitor, Ceramic, 82pF 50V ±10% SL	020-220-9-003
C-62	Capacitor, Ceramic, 100pF 50V ±10% SL	020-180-9-016
C-76	Capacitor, Ceramic, 220pF 50V ±10% SL	020-180-9-019
C-88,89,134	Capacitor, Ceramic, 330pF 50V ±10% SL	020-181-9-008
C-20	Capacitor, Ceramic, 680pF 50V ±10% SL	020-187-9-007
C-83	Capacitor, Ceramic, 200pF 50V ±10% SL	020-180-9-017
C-103,113,114,129	Capacitor, Ceramic, 0.001μF 50V +80% -20% YF	020-190-9-012
C-28	Capacitor, Ceramic, 0.0047μF 50V +80% -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, 0.01μF 50V +80% -20% YF	020-190-9-015
C-16,19,23,25,27,93	Capacitor, Ceramic, 0.039μF 25V +80% -20% ZF	020-206-9-001
C-85	Capacitor, Ceramic, 0.039μF 50V +80% -20% YF	020-220-9-004
C-69	Capacitor, Ceramic, 560pF 50V ±10% YB	020-190-9-020
C-35	Capacitor, Ceramic, 0.001μF 50V ±10% YB	020-210-9-007
C-77,81	Capacitor, Ceramic, 0.01μF 50V ±10% YB	020-177-9-024
C-39	Capacitor, Semiconductor, 0.1μF 25V +80% -20% BC	020-210-9-008

CIRCUIT SYMBOL	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	680-028-9-001
M-1	Meter, MT-134	320-095-9-001
PL-2	Microphone, MK-075	562-025-9-001
J-1	Pilot Lamp, PL-005	400-033-9-001
J-2	Connector, M Type, ANT, JK-035	772-027-9-001
J-5	Jack, Microphone, JK-058	773-073-9-001
J-3,4	Receptacle, DC Power, JK-052	762-020-9-001
TP-1,2	Jack, JK-089	773-086-9-001
F-1	Terminal, Check Point, TP-029	757-033-9-001
	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
FC-1	Clamper, Wire, YY-047	380-278-9-001
	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	
	Label, Serial No	483-338-9-001
	Label, Warning, DC Cord	484-035-9-001
	Mounting Screw BsBM Ni	634-101-9-001
	Illumination Plate t=1	763-069-9-001
	Wool-coated Paper, Wool Tack	769-086-9-001
	Washer, Rubber t=2	347-074-9-003
	Screw, Pan Hd, Plastic, M 3 x 6	634-051-9-001
	Screw, Pan Hd, Plastic, M 3 x 8	634-101-9-002
	Screw, Flat Hd, Ni, M 3 x 5	634-067-9-004
	Screw, Bind Hd, Ni, M 2 x 4	634-069-9-002
	Screw, Bind Hd, Ni, M 3 x 6	634-053-9-001
	Screw, Bind Hd, Ni, M3 x 8	634-067-9-001
	Tapping Screw, Round Hd, ZMC, 3.5 x 8	710-020-9-001
	Tapping Screw, Round Hd, ZMC, 5 x 10	710-021-9-002
	Taptite Screw Bind Hd, ZMC M3 x 6	710-021-9-004
	Nut, Hex, Ni, M2	653-026-9-001
	Nut, Hex, Ni, M3	634-024-9-001

CIRCUIT SYMBOL	DESCRIPTION	DYNASCAN PART NO.
	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	492-042-9-000
	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

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