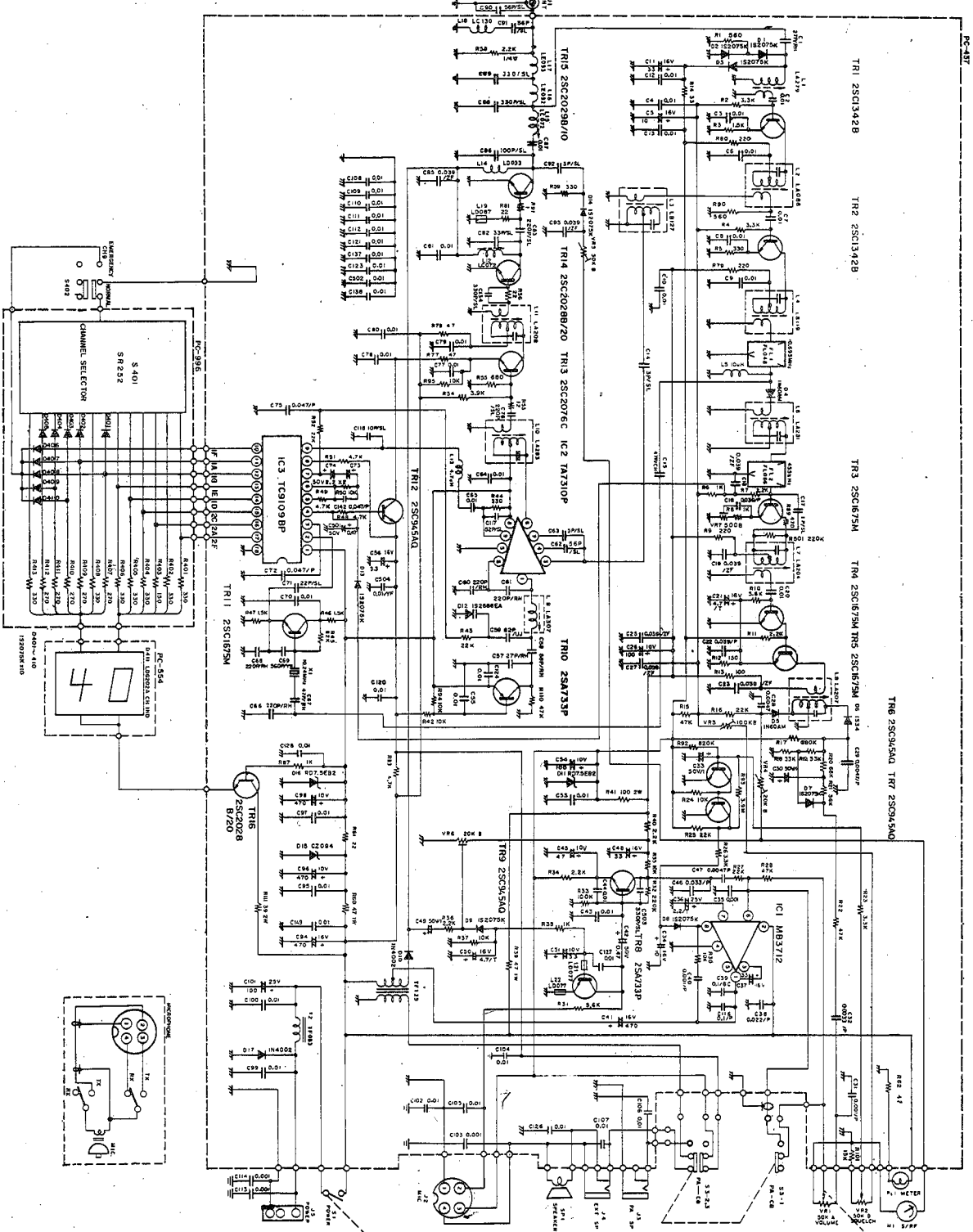


# CIRCUIT DIAGRAM FOR COBRA 19LTD



- NOTES:
1. RESISTANCE VALUES ARE SHOWN IN OHMS UNLESS OTHERWISE NOTED.
  2. RESONANT CIRCUITS ARE 1/4 W UNLESS OTHERWISE SPECIFIED.
  3. INTEGRATED CIRCUITS ARE INDICATED IN THE CIRCUIT UNLESS OTHERWISE SPECIFIED.
  4. QUAD ELECTRONIC PARTS ARE "V" UNLESS OTHERWISE NOTED.

# BILL OF MATERIAL FOR COBRA 19LTD

CIRCUIT SYMBOL	DESCRIPTION	DYNASCAN PART NO.
<b>SEMICONDUCTORS</b>		
IC-1	Integrated Circuit, M83712	307-151-9-001
IC-2	Integrated Circuit, TA7310P	307-133-9-004
IC-3	Integrated Circuit, TC9109BP	307-151-9-002
TR-8,10	Transistor, 2SA733-P	177-020-9-001
TR-3,4,5,11	Transistor, 2SC1675-M	176-060-9-002
TR-6,7,9,12	Transistor, 2SC945-AQ	176-062-9-001
TR-1,2	Transistor, 2SC1342-B	176-074-9-001
TR-14,16	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-4,5	Diode, 1N60-AM	150-014-9-001
D-6	Diode, 1S34	150-016-9-001
D-1,2,3,7,8,9,13,14,401,402,403,404,405,406,407,408,409,410	Diode, 1S2075-K	151-028-9-001
D-10,17	Diode, 1N4002	151-082-9-001
D-15	Diode, Zener, CZ-094	152-093-9-001
D-11,16	Diode, Zener, RD7.5E-BZ	152-097-9-001
D-12	Diode, Vari-Cap, 1S2688-EA	154-004-9-001
D-411	Diode, LED, LDG202A	158-042-9-001
<b>INDUCTORS</b>		
L-2	Coil, LA-088	066-019-9-002
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-6	Coil, LA-281	046-027-9-003
L-10	Coil, LA-283	046-027-9-005
L-9	Coil, LA-307	046-030-9-001
L-4	Coil, LB-119	046-027-9-007
L-3	Coil, LB-127	046-030-9-002
L-12,15	Coil, LC-072	044-040-9-001
L-18	Coil, LC-130	041-106-9-001
L-14	Coil, LD-033	041-083-9-003
L-21,22	Coil, LD-077	763-084-9-001
L-19	Coil, LD-087	044-048-9-003
L-16	Coil, LE-092	041-115-9-001
L-17	Coil, LE-093	041-115-9-002
L-13	Inductor, Molded, LZ-016 4.7μH	041-136-9-001
L-5	Inductor, Molded, LZ-016 10μH	041-136-9-002
T-2	Transformer, AF Choke, TF-083	042-021-9-001
T-1	Transformer, Output, TF-129	061-039-9-001
<b>SEMI-FIXED &amp; VARIABLE RESISTORS</b>		
VR-7	Resistor, Semi-fixed, RV-182 500 ohm B	008-372-9-001
VR4,6	Resistor, Semi-fixed, RV-182 20K ohm B	008-375-9-004

CIRCUIT SYMBOL	DESCRIPTION	DYNASCAN PART NO.
<b>SEMI-FIXED &amp; VARIABLE RESISTORS (Continued)</b>		
VR-5	Resistor, Semi-fixed, RV-182 50K ohm B	008-375-9-005
VR-3	Resistor, Semi-fixed, RV-182 100K ohm B	008-372-9-003
VR-1	Resistor, Variable, RV-342 50K ohm A	008-371-9-001
VR-2	Resistor, Variable, RV-241 50K ohm B	008-371-9-002
<b>FIXED RESISTORS</b>		

NOTE:  
Resistor tolerance: J = ±5% K = ±10%

R-41	Resistor, Metal Film, 100 ohm 2W K	013-043-9-001
R-39,60	Resistor, Metal Film, 47 ohm 1W K	013-038-9-002
R-111	Resistor, Metal Film, 39 ohm 2W K	013-057-9-001
R-58	Resistor, Carbon, Axial Lead, 2.2K ohm 1/4W J	
R-403	Resistor, Carbon, Axial Lead, 150 ohm 1/4W J	
R-407,409,411	Resistor, Carbon, Axial Lead, 270 ohm 1/8W J	
R-401,402,404,405,406,408,413	Resistor, Carbon, Axial Lead, 330 ohm 1/8W J	
R-91	Resistor, Carbon, Formed VERT, 1 ohm 1/8W J	
R-53	Resistor, Carbon, Formed VERT, 12 ohm 1/8W J	
R-20	Resistor, Carbon, Formed VERT, 68K ohm 1/8W J	
R-45	Resistor, Carbon, Formed VERT, 82K ohm 1/8W J	
R-101	Resistor, Carbon, Formed VERT, 15K ohm 1/8W J	
R-33	Resistor, Carbon, Formed VERT, 100K ohm 1/8W J	
R-32,501	Resistor, Carbon, Formed VERT, 220K ohm 1/8W J	
R-17	Resistor, Carbon, Formed VERT, 680K ohm 1/8W J	
R-93	Resistor, Carbon, Formed VERT, 3.9M ohm 1/8W J	002-108-5-395
R-92	Resistor, Carbon, Formed VERT, 820K ohm 1/8W J	

## CRYSTALS

X-1	Crystal, QX-074 10.24 MHz	132-027-9-001
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## MISCELLANEOUS

PC Board, Main	PC-437AF	
PC Board, CH SW,	PC-996AA	
PC Board, LED,	PC-554AA	
FL-1	Filter, Ceramic, FL-048	140-020-9-001
FL-2	Filter, Ceramic, FL-066	140-022-9-001
S-401	Switch, Rotary, SR-252	083-277-9-001
S-402	Switch, Slide, SW-047	084-102-9-001
S-403	Switch, Slide, SW-045	084-102-9-002
SP-1	Speaker, SP-070	580-038-9-001
M-1	Meter, MT-147	320-111-9-001
J-1	Microphone, MK-185	562-027-9-001
J-2	Jack, Antenna, JK-035	772-027-9-001
J-5	Jack, Microphone, JK-087	773-106-9-001
J-3,4	Receptacle, DC Power, JK-052	762-020-9-001
F-1	Jack, Speaker, JK-089	773-086-9-001
	Fuse, FS-012	191-251-3-002
	Insulation Sheet, YD-043	342-047-9-001
	Insulation Sheet, YD-046	342-069-9-001
	Insulation Sheet, YD-003001	347-073-9-001
	Clamper, Wire, YY-047	380-278-9-001
	DC Power Cord, W-070088	426-020-9-001

CIRCUIT SYMBOL	DESCRIPTION	DYNASCAN PART NO.
<b>MISCELLANEOUS (Continued)</b>		
FC-401	Flat Cable, WF-005 3.5-50-3.5	426-035-9-002
FC-402	Flat Cable, WF-005 3.5-60-3.5	426-036-9-002
FC-403	Flat Cable, WF-011 3.5-50-3.5	426-035-9-003
	Cover, Top	253-080-9-001
	Cover, Bottom	252-033-9-001
	Heat Sink	
	Mounting Bracket	251-345-9-001
	Hanger, Microphone	
	Holder, Meter	
	Panel, Front	255-211-9-001
	Knob, Channel	751-185-9-001
	Knob	751-185-9-002
	Plate, Front Panel	260-306-9-001
	ID Plate, FCC	
	Optical Filter, Display	763-175-9-001
	Label, Warning	
	Label, Serial No.	
	Label, Serial No.	- N/A -
	Screw, Mounting	634-101-9-001
	Wool-coated Paper, Wool Tack	763-109-9-002
	Washer, Rubber	347-084-9-001
	Protection Cover, Front Panel	
	Cushion, 15 x 15 x 25	
	Insulation Plate, 0.5t	
	Cushion	
	Screw, Pan Hd. Plastic, M3 x 6	634-051-9-001
	Screw, Pan Hd. Plastic, M3 x 8	634-101-9-002
	Screw, Flat Hd., M3 x 6	634-081-9-004
	Screw, Bind Hd., M2 x 5	634-089-9-001
	Screw, Bind Hd., M3 x 6	634-053-9-001
	Tapping Screw Bind Hd., ø3 x 8	710-019-9-002
	Tapping Screw Round Hd., ø3.5 x 8	710-020-9-001
	Tapping Screw Round Hd., ø5 x 10	710-021-9-002
	Nut, Hex, M2	653-026-9-001
	Nut, Hex, M3	634-024-9-001
	Washer, Lock, ø3.5	731-041-9-001
	Washer, Star, ø5	731-041-9-002
	Spring Plate, Knob, ø6	763-084-9-004
	Rivet, A1 ID Plate, ø3.2 x 3.2	
	Styrofoam Pad	
	Sleeve	
	Display Box	
	Shipping Carton Box	
	Owners Manual	480-315-9-001
	Composite	499-206-9-001
	Warranty Card	491-191-9-001
	Service Station Card	492-042-0-000
	FCC Rules Part 95	492-047-9-001