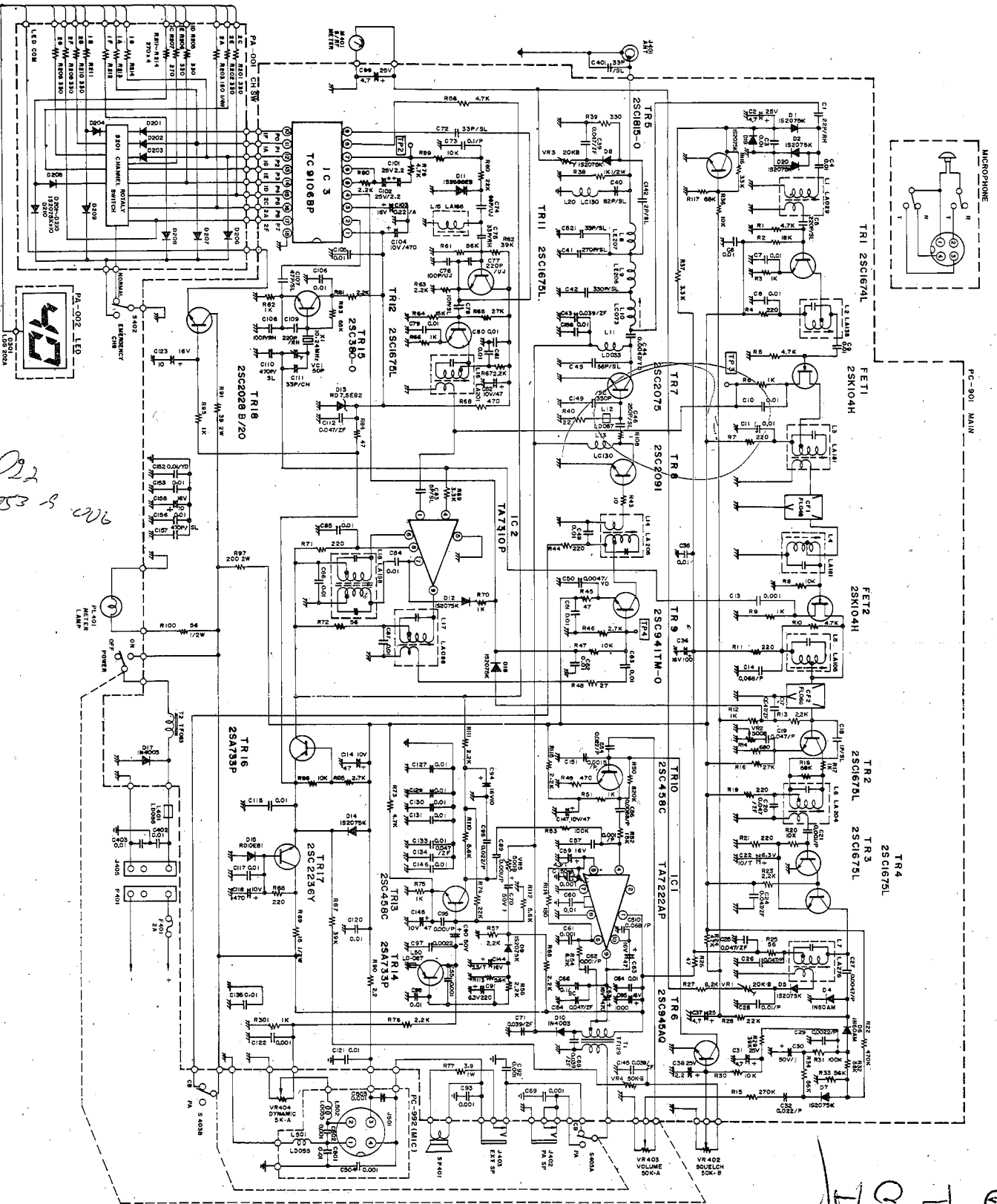


CIRCUIT DIAGRAM FOR COBRA 21LTD



NOTES:
 1. RESISTANCE VALUES ARE SHOWN IN OHMS UNLESS OTHERWISE NOTED.
 2. (RESISTOR CODE: M=100 OHMS)
 3. CAPACITANCE VALUES ARE INDICATED IN (P=PICO, M=MICRO, F=FERMI)
 4. ALL CAPACITORS TEMPERATURE CHARACTERISTICS ARE 10 UNLESS OTHERWISE NOTED.
 5. CIRCUIT AND COMPONENTS ARE SUBJECT TO CHANGE WITHOUT NOTICE.

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BILL OF MATERIAL FOR COBRA 21LTD

CIRCUIT SYMBOL	DESCRIPTION	DYNASCAN PART NO.
SEMICONDUCTORS		
IC-1	Integrated Circuit, TA7222AP	307-288-9-001
IC-2	Integrated Circuit, TA7310P	307-133-9-004
IC-3	Integrated Circuit, TC9106BP	307-144-9-001
FET-1,2	Field Effect Transistor, 2SK104-H	182-055-9-001
TR-1	Transistor, 2SC1674-L	176-081-9-002
TR-2,3,4,11,12	Transistor, 2SC1675-L	176-085-9-001
TR-6	Transistor, 2SC945A-Q	176-062-9-001
TR-14,16	Transistor, 2SA733-P	177-020-9-001
TR-10,13	Transistor, 2SC458-C	176-048-9-002
TR-8	Transistor, 2SC2081	176-074-9-002
TR-5	Transistor, 2SC1815-O	176-085-9-002
TR-9	Transistor, 2SC941TM-O	176-089-9-004
TR-15	Transistor, 2SC380-O	176-089-9-002
TR-17	Transistor, 2SC2236-Y	176-089-9-006
TR-7	Transistor, 2SC2075	176-089-9-007
TR-18	Transistor, 2SC2028-B/20	172-038-9-001
D-1,2,5,7,8,9,12,14,18,19,20,201,202,203,204,205,206,207,208,209,210	Diode, 1S2075K	151-028-9-001
D-4,6	Diode, 1N60AM	150-014-9-001
D-13	Diode, Zener, RD7.5EB2	152-097-9-001
D-15	Diode, Zener, RD10EB1	152-109-9-001
D-11	Diode, Vari-Cap, 1S2698EB	154-006-9-001
D-10,17	Diode, 1N4003	151-083-9-001
D-301	Diode, LED, LDG202A	158-042-9-001
INDUCTORS		
L-1	Coil, LA-029	060-023-9-001
L-17	Coil, LA-088	066-019-9-002
L-5	Coil, LA-106	060-021-9-003
L-2	Coil, LA-138	046-024-9-001
L-15	Coil, LA-165	044-046-9-001
L-3,4	Coil, LA-181	060-024-9-002
L-18	Coil, LA-198	060-029-9-001
L-16	Coil, LA-201	046-024-9-002
L-6	Coil, LA-204	046-024-9-003
L-14	Coil, LA-208	060-029-9-004
L-7	Coil, LA-276	046-024-9-004
L-10	Coil, LC-073	044-041-9-001
L-13,20	Coil, LC-130	041-106-9-001
L-11	Coil, LD-033	041-083-9-003
L-501,502	Coil, LD-055	041-137-9-001
L-12,50	Ferrite Bead Core, LD-087	044-048-9-003
L-401	Ferrite Bead Core Coil, LD-088	044-051-9-001
L-9	Coil, LE-206	041-137-9-002
L-8	Coil, LE-207	041-137-9-003
T-2	Transformer, AF Choke, TF-083	042-021-9-001
T-1	Transformer, Output, TF-129	061-039-9-001

CIRCUIT SYMBOL	DESCRIPTION	DYNASCAN PART NO.
SEMI-FIXED & VARIABLE RESISTORS		
VR-2,5	Resistor, Semi-fixed, RV-182 500 ohm B	008-372-9-001
VR-1,3	Resistor, Semi-fixed, RV-182 20K ohm B	008-375-9-004
VR-4	Resistor, Semi-fixed, RV-182 50K ohm B	008-375-9-002
VR-404	Resistor, Variable, RV-341 5K ohm A	008-471-9-001
VR-403	Resistor, Variable, RV-320 50K ohm A	008-347-9-002
VR-402	Resistor, Variable, RV-331 50K ohm B	008-347-9-003

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

CIRCUIT SYMBOL	DESCRIPTION	DYNASCAN PART NO.
FIXED RESISTORS		
R-108	Resistor, Carbon, Formed VERT, 1 ohm 1/8W J	
R-43	Resistor, Carbon, Formed VERT, 10 ohm 1/8W J	
R-40	Resistor, Carbon, Formed VERT, 22 ohm 1/8W J	
R-48	Resistor, Carbon, Formed VERT, 27 ohm 1/8W J	
R-100	Resistor, Carbon, Axial Lead, 56 ohm 1/2W K	
R-38	Resistor, Solid, 1K ohm 1/2W K	
R-77	Resistor, Metal Film, 3.9 ohm 1W K	013-035-9-001
R-91	Resistor, Metal Film, 39 ohm 2W K	013-057-9-001
R-97	Resistor, Metal Film, 200 ohm 2W K	013-015-9-002

NOTE:
The first code indicates tolerance of capacitance:
C = ±0.25pF, D = ±0.5pF, F = ±1pF, G = ±2%, J = ±5%, K = ±10%, M = ±20%, Z = +70% -20%
The second code indicates variation of capacitance with temperature:
YA = ±5%, YB = ±10%, YD = +20 -30%, YE = +20 -50%, YF = +30 -70%, (-25 ~ +85°C), ZF = +30 -80% (-10 ~ +70°C), CH = 0±60ppm/°C, RH = -220ppm/°C±60ppm/°C, CJ = 0±120ppm/°C, RJ = -220ppm/°C±120ppm/°C, TH = -470ppm/°C±60ppm/°C, UJ = -750ppm/°C±120ppm/°C, SL = +350ppm/°C ~ -1000ppm/°C

CIRCUIT SYMBOL	DESCRIPTION	DYNASCAN PART NO.
VC-1	Capacitor, Trimmer, CV-048 50pF	028-052-9-001
C-144	Capacitor, Tantalum, 3.3µF 16V M	
C-59	Capacitor, Tantalum, 4.7µF 16V M	
C-22	Capacitor, Tantalum, 10µF 6.3V M	
C-13,55,61,69,92,93,122,160,502,503,504	Capacitor, Ceramic, 0.001µF 50V Z YF	
C-97	Capacitor, Ceramic, 0.0022µF 50V Z YF	
C-3,4,6,7,8,9,10,11,35,49,51,52,53,60,64,79,80,81,84,85,86,87,98,105,106,115,117,120,121,127,129,130,131,133,135,146,153,156,158,402,403,501	Capacitor, Ceramic, 0.01µF 50V Z YF	
C-66	Capacitor, Semiconductor, 0.1µF 25V Z BC	020-210-9-008

CIRCUIT SYMBOL	DESCRIPTION	DYNASCAN PART NO.
CRYSTALS		
X-1	Crystal, 10.24 MHz, QX-074	132-027-9-001

CIRCUIT SYMBOL	DESCRIPTION	DYNASCAN PART NO.
MISCELLANEOUS		
CF-1	PC Board, Main, PC-901AA	302-599-9-001
CF-2	PC Board, CH SW, PA-001AA	302-570-9-001
S-201	PC Board, LED, PA-002AA	302-571-9-001
S-492,403	PC Board, Mic Jack, PC-992AA	140-029-9-001
J-401	Filter, Ceramic, FL-043	140-022-9-001
J-501	Filter, Ceramic, FL-066	140-022-9-001
J-402,403	Switch, Rotary, SR-239	083-278-9-001
J-405	Switch, Slide, SW-047	084-102-9-001
SP-401	Jack, Antenna, JK-068	772-036-9-001
M401(PL401)	Jack, Microphone, JK-067	773-077-9-002
FC-4021	Jack, Speaker, JK-089	773-086-9-001
P-401	Receptacle, DC Power, JK-052	762-020-9-001
F-401	Speaker, SP-052	580-028-9-001
	Meter, MT-147	320-111-9-001
	Flat Cable, 3.5-50-3.5, WF-001	426-081-9-001
	Insulation Sheet, YD-039	
	Insulation Sheet, YD-041	
	Insulation Sheet, YD-032	
	Bushing, Transistor, YD-019-003	
	Clamper, Wire, YY-047	
	Microphone, MK-185	562-027-9-001
	DC Power Cord, W-070088	426-020-9-001
	Fuse, FS-014 2A	191-251-3-002
	Chassis, 272-130-9-001	
	Cover, Top, 272-131-9-001	
	Cover, Bottom, 747-061-9-001	
	Heat Sink, 251-232-9-001	
	Mounting Bracket, 741-074-9-001	
	Hanger, Microphone, 256-156-9-001	
	Shield Plate, 255-212-9-001	
	Panel, Front, 751-095-9-002	
	Knob, 751-151-9-001	
	Knob, Channel, 634-101-9-001	
	Mounting Screw, 600-090-9-002	
	ID Plate, FCC, 763-176-9-001	
	Nameplate, Front, N/A	
	Optical Filter, Display, 170 x 320 x 0.05	
	Label, Warning DC Cord, 270 x 400 x 0.1	
	Label, Serial No., 360 x 400 x 700 x 0.1	
	Label, Serial No., N/A	
	Vinyl Bag, 170 x 320 x 0.05	
	Vinyl Bag, 270 x 400 x 0.1	
	Vinyl Bag, 360 x 400 x 700 x 0.1	
	Terminal Lug Solder #3	
	Spring Plate, Knob #6	763-084-9-004
	Rivet, AL ID Plate #3.2 x 3.2	
	Display Box, 500-536-9-001	
	Shipping Carton Box, 503-153-9-001	
	Styrofoam Pad, 503-153-9-002	
	Owners Manual, 480-316-9-001	
	Composite, 498-280-9-001	
	Warranty Card, 491-191-9-001	
	Service Station Card, 492-042-0-000	
	FCC Rules Part 95, 492-047-9-001	