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Cobra 25GTL Parts List

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BILL OF MATERIAL FOR COBRA 25GTL

CIRCUIT SYMBOL	DESCRIPTION	DYNASCAN PART NO.
SEMICONDUCTORS		
IC-1	Integrated Circuit, AF Power, TA7222P.....	307-143-9-003
IC-2	Integrated Circuit, TX Mixer, TA7310P.....	307-133-9-004
IC-3	Integrated Circuit, PLL, TC9106P.....	307-144-9-001
FET-1,2	Field Effect Transistor, 2SK104-H	182-055-9-001
TR-1	Transistor, 2SC1923-BN	176-089-9-001
TR-2,3,4,11,12,15,20	Transistor, 2SC380-O	176-089-9-002
TR-10,13	Transistor, 2SC458-C	176-048-9-002
TR-5,19	Transistor, 2SC1815-O	176-085-9-002
TR-6,21,23	Transistor, 2SC1815-Y	176-089-9-003
TR-9	Transistor, 2SC941TM-O	176-089-9-004
TR-18	Transistor, 2SC2236-O	176-089-9-005
TR-17	Transistor, 2SC2236-Y	176-089-9-006
TR-8	Transistor, 2SC2091	176-074-9-002
TR-7	Transistor, 2SC2075	176-089-9-007
TR-14,16,22	Transistor, 2SA495TM-O	177-037-9-001
D-1,2,3,8,12,14,16	Diode, 1S1588	151-051-9-001
D-7	Diode, 1S2075K	151-028-9-001
D-17	Diode, S5277B	151-076-9-001
D-4,5,6,9	Diode, 1N60AM	150-014-9-001
D-10	Diode, SR1K-1	151-040-9-003
D-15	Diode, Zenor, 05Z9. 1-L	152-087-9-001
D-13	Diode, Zenor, WZ-071	152-075-9-001
D-301	Diode, LED, TLR321	158-014-9-001
D-401	Diode, LED, TLRG101	158-020-9-001
D-11	Diode, Vari-Cap, 1S2688-EA	154-004-9-001
INDUCTORS		
L-1	Coil, LA-029	060-023-9-001
L-17	Coil, LA-088	066-019-9-002
L-5	Coil, LA-106	060-019-9-002
L-2	Coil, LA-138	046-024-9-001
L-15	Coil, LA-165	044-046-9-001
L-19	Coil, LA-180	060-024-9-001
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-13,20	Coil, LC-018	041-056-9-003
L-10	Coil, LC-019	041-088-9-001
L-11	Coil, LD-012	041-069-9-004
L-12	Coil, LD-087	044-048-9-003
L-401	Coil, LD-088	044-051-9-001
L-9	Coil, LE-088	041-104-9-001
L-8	Coil, LE-089	041-104-9-002
T-2	Choke Coil, Line Filter	042-021-9-001

CIRCUIT SYMBOL	DESCRIPTION	DYNASCAN PART NO.
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INDUCTORS (Continued)

T-1	Output Transformer, TF-129	061-039-9-001
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SEMI-FIXED & VARIABLE RESISTORS

VR-2	Resistor, Semi-Fixed, 200 ohm RV-189 B	008-344-9-001
VR-5	Resistor, Semi-Fixed, 5K ohm RV-189 B	008-316-9-004
VR-1,3	Resistor, Semi-Fixed, 20K ohm RV-189 B	008-316-9-003
VR-4	Resistor, Semi-Fixed, 50K ohm RV-189 B	008-316-9-002
VR-403	Variable Resistor with Switch, 50K ohm RV-221 A Volume	008-344-9-002
VR-402	Variable Resistor, 50K ohm RV-156 B Squelch	008-344-9-003
VR-401	Variable Resistor, 1K ohm RV-294 RF Gain Control	008-344-9-004
VR-404	Variable Resistor, 5K ohm RV-293 A Dynamike.....	008-344-9-005

FIXED RESISTORS

RR-201,202	Resistor, Array, HA-008 680 ohm x 7	527-076-9-002
R-77	Resistor, Metallic Film, 3.9 ohm 1W $\pm 10\%$	013-035-9-001
R-97	Resistor, Metallic Film, 200 ohm 2W $\pm 10\%$	013-015-9-002
R-38	Resistor, Solid, 1K ohm 1/2W $\pm 10\%$	001-102-6-102
R-89	Resistor, Carbon Film, 15 ohm 1/2W $\pm 5\%$	002-102-5-150
R-91	Resistor, Carbon Film, 47 ohm 1/2W $\pm 5\%$	002-102-5-470
R-100	Resistor, Carbon Film, 56 ohm 1/2W $\pm 5\%$	002-102-5-560
R-99	Resistor, Carbon Film, 100 ohm 1/2W $\pm 5\%$	002-102-5-101
R-90	Resistor, Carbon Film, 2.2 ohm 1/8W $\pm 5\%$	002-108-5-229
R-40	Resistor, Carbon Film, 22 ohm 1/8W $\pm 5\%$	002-108-5-220
R-45,26	Resistor, Carbon Film, 47 ohm 1/8W $\pm 5\%$	002-108-5-470
R-11,71	Resistor, Carbon Film, 220 ohm 1/8W $\pm 5\%$	002-108-5-221
R-35	Resistor, Carbon Film, 1.5K ohm 1/8W $\pm 5\%$	002-108-5-152
R-85	Resistor, Carbon Film, 2.7K ohm 1/8W $\pm 5\%$	002-108-5-272
R-69	Resistor, Carbon Film, 3.3K ohm 1/8W $\pm 5\%$	002-108-5-332
R-47	Resistor, Carbon Film, 10K ohm 1/8W $\pm 5\%$	002-108-5-103
R-27	Resistor, Carbon Film, 12K ohm 1/8W $\pm 5\%$	002-108-5-123
R-93	Resistor, Carbon Film, 18K ohm 1/8W $\pm 5\%$	002-108-5-183
R-28,60	Resistor, Carbon Film, 22K ohm 1/8W $\pm 5\%$	002-108-5-223
R-34	Resistor, Carbon Film, 56K ohm 1/8W $\pm 5\%$	002-108-5-563
R-41	Resistor, Carbon Film, 10 ohm 1/8W $\pm 5\%$	002-108-5-100
R-43	Resistor, Carbon Film, 10 ohm 1/8W $\pm 5\%$	002-108-5-100
R-48	Resistor, Carbon Film, 27 ohm 1/8W $\pm 5\%$	002-108-5-270
R-84	Resistor, Carbon Film, 47 ohm 1/8W $\pm 5\%$	002-108-5-470
R-25,72	Resistor, Carbon Film, 56 ohm 1/8W $\pm 5\%$	002-108-5-560
R-4,7,19,21,44,88	Resistor, Carbon Film, 220 ohm 1/8W $\pm 5\%$	002-108-5-221
R-56	Resistor, Carbon Film, 270 ohm 1/8W $\pm 5\%$	002-108-5-271
R-39	Resistor, Carbon Film, 330 ohm 1/8W $\pm 5\%$	002-108-5-331
R-49,68	Resistor, Carbon Film, 470 ohm 1/8W $\pm 5\%$	002-108-5-471
R-98	Resistor, Carbon Film, 680 ohm 1/8W $\pm 5\%$	002-108-5-681
R-50	Resistor, Carbon Film, 820 ohm 1/8W $\pm 5\%$	002-108-5-821
R-3,9,12,14,22,23,57,66, 75,82,103,70,17,51,96	Resistor, Carbon Film, 1K ohm 1/8W $\pm 5\%$	002-108-5-102
R-92	Resistor, Carbon Film, 1.5K ohm 1/8W $\pm 5\%$	002-108-5-152
R-5,6,13,80,81,67,63	Resistor, Carbon Film, 2.2K ohm 1/8W $\pm 5\%$	002-108-5-222
R-46	Resistor, Carbon Film, 2.7K ohm 1/8W $\pm 5\%$	002-108-5-272
R-76,102	Resistor, Carbon Film, 3.3K ohm 1/8W $\pm 5\%$	002-108-5-332
R-37	Resistor, Carbon Film, 3.9K ohm 1/8W $\pm 5\%$	002-108-5-392

**CIRCUIT
SYMBOL**

DESCRIPTION

**DYNASCAN
PART NO.**

RESISTORS (Continued)

R-10,55,73,58,79,95	Resistor, Carbon Film, 4.7K ohm 1/8W ± 5%	002-108-5-472
R-1	Resistor, Carbon Film, 6.8K ohm 1/8W ± 5%	002-108-5-682
R-54	Resistor, Carbon Film, 8.2K ohm ± 5%	002-108-5-822
R-8,20,30,36,59,86,101, 105,107	Resistor, Carbon Film, 10K ohm 1/8W ± 5%	002-108-5-103
R-78	Resistor, Carbon Film, 12K ohm 1/8W ± 5%	002-108-5-123
R-64,94,52	Resistor, Carbon Film, 15K ohm 1/8W ± 5%	002-108-5-153
R-2	Resistor, Carbon Film, 18K ohm 1/8W ± 5%	002-108-5-183
R-65,16	Resistor, Carbon Film, 27K ohm 1/8W ± 5%	002-108-5-273
R-29,62,87	Resistor, Carbon Film, 39K ohm 1/8W ± 5%	002-108-5-393
R-24,53	Resistor, Carbon Film, 47K ohm 1/8W ± 5%	002-108-5-473
R-32,33,61	Resistor, Carbon Film, 56K ohm 1/8W ± 5%	002-108-5-563
R-18,83	Resistor, Carbon Film, 68K ohm 1/8W ± 5%	002-108-5-683
R-106,31	Resistor, Carbon Film, 100K ohm 1/8W ± 5%	002-108-5-104
R-15	Resistor, Carbon Film, 270K ohm 1/8W ± 5%	002-108-5-274
R-74	Resistor, Carbon Film, 470 ohm 1/8W ± 5%	002-108-5-471
R-104	Resistor, Carbon Film, 2.2M ohm 1/8W ± 5%	002-108-5-225

CAPACITORS

C-59,101,102,37	Capacitor, Tantalum, 4.7μF 16V ±20%	027-026-9-004
C-22	Capacitor, Tantalum, 10μF 16V ±20%	027-033-9-003
C-30	Capacitor, Electrolytic, 1μF 50V ±20%	022-157-9-002
C-70	Capacitor, Electrolytic, 3.3μF 25V	022-172-9-001
C-2,34,99	Capacitor, Electrolytic, 4.7μF 25V	022-157-9-003
C-31	Capacitor, Electrolytic, 10μF 10V	022-172-9-002
C-58,94,123,144	Capacitor, Electrolytic, 10μF 16V	022-157-9-004
C-38	Capacitor, Electrolytic, 22μF 10V	022-163-9-001
C-91	Capacitor, Electrolytic, 33μF 16V	022-157-9-006
C-82,88,114	Capacitor, Electrolytic, 47μF 10V	022-160-9-002
C-63	Capacitor, Electrolytic, 47μF 16V	022-164-9-002
C-36	Capacitor, Electrolytic, 100μF 16V	022-157-9-009
C-119,143	Capacitor, Electrolytic, 220μF 16V	022-163-9-001
C-104,118	Capacitor, Electrolytic, 470μF 10V	022-160-9-001
C-67	Capacitor, Electrolytic, 470μF 16V	022-157-9-011
C-65	Capacitor, Electrolytic, 1000μF 16V	022-158-9-004
C-116	Capacitor, Electrolytic, 220μF 10V	022-171-9-002
C-103	Capacitor, Aluminum, 0.22μF 16V ±20%	022-172-9-003
C-21,57,62,95	Capacitor, Mylar, 0.001μF 25V ±20%	025-134-9-001
C-29	Capacitor, Mylar, 0.0022μF 25V ±20%	025-137-9-001
C-56	Capacitor, Mylar, 0.0068μF 25V ±20%	025-134-9-004
C-27	Capacitor, Mylar, 0.0047μF 25V ±20%	025-134-9-003
C-28,96,141	Capacitor, Mylar, 0.01μF 25V ±20%	025-137-9-002
C-89	Capacitor, Mylar, 0.033μF 25V ±20%	025-137-9-003
C-14,19	Capacitor, Mylar, 0.047μF 25V ±20%	025-137-9-004
C-73	Capacitor, Mylar, 0.1μF 25V ±20%	025-137-9-005
C-32,54	Capacitor, Mylar, 0.022μF 25V ±20%	025-137-9-006
C-111	Capacitor, Ceramic, 33pF 50V ±10%	CH 020-205-9-001
C-1	Capacitor, Ceramic, 22pF 50V ±10%	RH 020-205-9-002
C-75	Capacitor, Ceramic, 33pF 50V ±10%	RH 020-205-9-003
C-40	Capacitor, Ceramic, 68pF 50V ±10%	RH 020-196-9-001
C-108	Capacitor, Ceramic, 100pF 50V ±10%	RH 020-205-9-004
C-109	Capacitor, Ceramic, 220pF 50V ±10%	RH 020-205-9-005
C-74	Capacitor, Ceramic, 68pF 50V ±10%	UJ 020-205-9-006
C-76	Capacitor, Ceramic, 100pF 50V ±10%	UJ 020-205-9-007

CIRCUIT SYMBOL	DESCRIPTION	DYNASCAN PART NO.
CAPACITORS (Continued)		
C-77	Capacitor, Ceramic, 220pF 50V ±10%	YF..... 020-205-9-008
C-18	Capacitor, Ceramic, 1pF 50V ±0.25pF	SL..... 020-190-9-001
C-142	Capacitor, Ceramic, 2pF 50V ±0.25pF	SL..... 020-187-9-001
C-83	Capacitor, Ceramic, 5pF 50V ±10%	SL..... 020-181-9-003
C-78	Capacitor, Ceramic, 10pF 50V ±10%	SL..... 020-181-9-004
C-72,401	Capacitor, Ceramic, 33pF 50V ±10%	SL..... 020-180-9-012
C-12,107	Capacitor, Ceramic, 47pF 50V ±10%	SL..... 020-180-9-013
C-45	Capacitor, Ceramic, 56pF 50V ±10%	SL..... 020-196-9-004
C-138	Capacitor, Ceramic, 100pF 50V ±10%	SL..... 020-180-9-016
C-139	Capacitor, Ceramic, 150pF 50V ±10%	SL..... 020-180-9-014
C-5	Capacitor, Ceramic, 220pF 50V ±10%	SL..... 020-180-9-019
C-90	Capacitor, Ceramic, 270pF 50V ±10%	SL..... 020-190-9-010
C-140,41,42	Capacitor, Ceramic, 330pF 50V ±10%	SL..... 020-181-9-008
C-46	Capacitor, Ceramic, 250pF 50V ±10%	SL..... 020-181-9-007
C-110	Capacitor, Ceramic, 470pF 50V ±10%	SL..... 020-205-9-009
C-97	Capacitor, Ceramic, 0.0022μF 50V +80%	YF..... 020-190-9-013
C-13,61,69,92,93,126, 501,503,401,402,55, 122,403	Capacitor, Ceramic, 0.001μF 50V -20% +80%	YF..... 020-190-9-012
C-44,50	Capacitor, Ceramic, 0.0047μF 50V ±20%	YD..... 020-204-9-018
C-3,4,6,7,8,9,10,11,15, 33,35,49,51,52,53,60, 64,79,81,80,84,85,86, 87,98,100,105,106,113, 115,117,120,121,124, 125,127,128,129,130, 131,132,133,136,137, 502,504	Capacitor, Ceramic, 0.01μF 50V ±20%	YF..... 020-190-9-015
C-16,17,20,23,24,25,26, 39,112,134	Capacitor, Ceramic, 0.047μF 25V +80% -20%	ZF..... 020-205-9-010
C-66	Capacitor, Ceramic, 0.1μF 25V ±10%	020-205-9-011
VC-1	Capacitor, Trimmer, CV-048 50pF	028-052-9-001

CRYSTAL

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

	Printed Circuit Board, Main PC-417AA	
	Printed Circuit Board for Switch, PC-420AA	
	Printed Circuit Board for LED Display, PC-418AA	
	Printed Circuit Board for Mic Connector, PC-181AA	
CF-1	Ceramic Filter, FL-048 10.695 MHz	140-020-9-001
CF-2	Ceramic Filter, FL-066 455 kHz	140-022-9-001
S-201	Rotary Switch, Channel Selector SR-214	083-237-9-001
S-401,402,403,404	Slide Switch, SW-054, PA-CB, BRT-DIM ANL-OFF, NB-OFF	084-051-9-001
	Insulator, YD-039 for TA7222P	350-007-9-001
	Insulator, YD-041 for 2SC2075	350-008-9-001
	Flat Cable, WF-001 3.5-55-3.5	426-036-9-001
	Flat Cable, WF-005 3.5-60-3.5	426-036-9-002
	Flat Cable, WF-005 3.5-75-3.5	426-036-9-003
	DC Power Cord, W-070088	426-021-9-001

**CIRCUIT
SYMBOL**

DESCRIPTION

**DYNASCAN
PART NO.**

MISCELLANEOUS (Continued)

SP-401	Speaker, SP-052	580-028-9-001
M-401	Meter, MT-134	320-095-9-001
	Microphone, MK-075	562-025-9-001
J-401	Antenna Connector, JK-035	772-027-9-001
J-404	Microphone Connector, JK-072	772-038-9-001
J-402,403	Jack, JK-089, PA SP, EXT, SP	773-086-9-001
J-405	DC Power Connector, JK-052 3F Consent	762-020-9-001
TP-1,2,3,4	Test Terminal, TP-029	757-033-9-001
F-401	Fuse, 2A FS-012	191-251-3-002
	Lite, Meter	400-054-9-001
	Main Chassis	
	Case, Top	272-128-9-001
	Case, Bottom	272-129-9-001
	Mounting Bracket	251-352-9-001
	Heat Sink	747-061-9-001
	Microphone Hanger	741-074-9-001
	Front Panel	255-168-9-001
	Channel Selector Knob	751-151-9-002
	Knob for DYNAMIC/SQ/VOLUME/RF GAIN.....	751-095-9-002
	Screw for Mounting Bracket.....	634-100-9-001
	LED Holder, Rubber	763-109-9-001
	Front Plate	260-153-9-001
	FCC Plate	260-153-9-002
	Warning Label	484-035-9-001
	Channel Display Window	380-305-9-001
	Rubber Washer for Mounting Bracket.....	381-085-9-002
	Felt Washer for Knobs	347-078-9-001
	Wool Tac for case.....	763-109-9-002
	Screw, Pan Head, 3 DIA x 6, Metric.....	634-051-9-001
	Screw, Flat Head, 3 DIA x 6	634-081-9-004
	Screw, Binding Head, 2 x 5 Metric	634-099-9-001
	Screw, Binding Head, 3 x 6 Metric	634-053-9-001
	Screw, Binding Head, 3 x 8, Metric	634-067-9-001
	Tapping Screw, Round Head, 3.5 x 8.....	710-021-9-001
	Tapping Screw, Round Head, 5 x 10.....	710-029-9-002
	Screw, Binding Head, Tap Tight, 3 x 6, Metric.....	710-021-9-004
	Hexagon Nut, M2	653-026-9-001
	Hexagon Nut, M3	653-024-9-001
	Frang Nut, M3	653-026-9-002
	Lock Washer, 3.5	731-041-9-001
	Lock Washer, 5	731-041-9-002
	Spring for Knob	763-084-9-004
	Rivet, 3.2 x 3.2	
	Display Box	500-365-9-001
	Master Carton	
	Styrofoam, Front	503-153-9-001
	Styrofoam, Rear	503-153-9-002
	Instruction Manual	480-227-9-001
	Circuit Diagram/Bill of Material	499-133-9-001

**CIRCUIT
SYMBOL**

DESCRIPTION

**DYNASCAN
PART NO.**

MISCELLANEOUS (Continued)

Warranty Card
Service Station Card
F.C.C. Application Card
F.C.C. Form 555B, Temporary License Form
F.C.C. Rule Part 95