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## Cobra 21GTL Parts List

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# BILL OF MATERIAL FOR COBRA 21GTL

CIRCUIT SYMBOL	DESCRIPTION	DYNASCAN PART NO.
<b>SEMICONDUCTORS</b>		
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	Transistor, 2SC380-O .....	176-089-9-002
TR-10,13	Transistor, 2SC458-C .....	176-048-9-002
TR-5	Transistor, 2SC1815-O .....	176-085-9-002
TR-6	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-18	Transistor, 2SC2091.....	176-074-9-002
TR-7	Transistor, 2SC2075 .....	176-089-9-007
TR-14,16	Transistor, 2SA495TM-O .....	177-037-9-001
D-1,2,8,12,14,201,202,203,204	Diode, IS1588.....	151-051-9-001
D-7	Diode, IS2075K .....	151-028-9-001
D-17	Diode, S5277B .....	151-076-9-001
D-4,5,6,9	Diode, IN60AM.....	150-014-9-001
D-10	Diode, SRIK-1 .....	151-040-9-003
D-15	Diode, Zener, 05Z91-L .....	152-087-9-001
D-13	Diode, Zener, WZ-071 .....	152-075-9-001
D-301	Diode, LED, TLR321 .....	158-014-9-001
D-11	Diode, Vari Cap, IS2688-EA .....	154-004-9-001
<b>INDUCTORS</b>		
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-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-8,13	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, TF-083.....	042-021-9-001
T-1	Output Transformer, TF-129 .....	061-039-9-001

**CIRCUIT  
SYMBOL**

**DESCRIPTION**

**DYNASCAN  
PART NO.**

**SEMI-FIXED & VARIABLE RESISTORS**

VR-2	Resistor, Semi-Fixed,	RV-189	200 ohm B.....	008-344-9-001
VR-5	Resistor, Semi-Fixed,	RV-189	5K ohm B.....	008-316-9-004
VR-1,3	Resistor, Semi-Fixed,	RV-189	20K ohm B.....	008-316-9-003
VR-4	Resistor, Semi-Fixed,	RV-189	50K ohm B.....	008-316-9-002
VR-403	Variable Resistor with Switch, RV-221 50K ohm A Vol ....			008-344-9-002
VR-402	Variable Resistor,	RV-156	50K ohm B Squelch.....	008-344-9-003
VR-404	Variable Resistor,	RV-293	5K ohm 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, Metalic Film,	3.9 ohm 1W ±10% .....	013-035-9-001
R-97	Resistor, Metalic Film,	200 ohm 2W ±10% .....	013-015-9-002
R-38	Solid Resistor,	1K ohm 1/2W ±10% .....	001-102-6-102
R-89	Resistor, Carbon Film,	15 ohm 1/2W ± 5% .....	002-102-5-150
R-91	Resistor, Carbon Film,	47 ohm 1/2W ± 5% .....	002-102-5-470
R-100	Resistor, Carbon Film,	56 ohm 1/2W ± 5% .....	002-102-5-560
R-90	Resistor, Carbon Film,	2.2 ohm 1/8W ± 5% .....	002-108-5-229
R-45,26	Resistor, Carbon Film,	47 ohm 1/8W ± 5% .....	002-108-5-470
R-11,71	Resistor, Carbon Film,	220 ohm 1/8W ± 5% .....	002-108-5-221
R-35	Resistor, Carbon Film,	1.5K ohm 1/8W ± 5% .....	002-108-5-152
R-85	Resistor, Carbon Film,	2.7K ohm 1/8W ± 5% .....	002-108-5-272
R-69	Resistor, Carbon Film,	3.3K ohm 1/8W ± 5% .....	002-108-5-332
R-41	Resistor, Carbon Film,	10 ohm 1/8W ± 5% .....	002-108-5-100
R-47	Resistor, Carbon Film,	10K ohm 1/8W ± 5% .....	002-108-5-103
R-27	Resistor, Carbon Film,	12K ohm 1/8W ± 5% .....	002-108-5-123
R-28,60	Resistor, Carbon Film,	22K ohm 1/8W ± 5% .....	002-108-5-223
R-34	Resistor, Carbon Film,	56K ohm 1/8W ± 5% .....	002-108-5-563
R-43	Resistor, Carbon Film,	10 ohm 1/8W ± 5% .....	002-108-5-100
R-48	Resistor, Carbon Film,	27 ohm 1/8W ± 5% .....	002-108-5-270
R-84,42	Resistor, Carbon Film,	47 ohm 1/8W ± 5% .....	002-108-5-470
R-25,72	Resistor, Carbon Film,	56 ohm 1/8W ± 5% .....	002-108-5-560
R-4,7,19,21,44,88	Resistor, Carbon Film,	220 ohm 1/8W ± 5% .....	002-108-5-221
R-56	Resistor, Carbon Film,	270 ohm 1/8W ± 5% .....	002-108-5-271
R-39	Resistor, Carbon Film,	330 ohm 1/8W ± 5% .....	002-108-5-331
R-49,68	Resistor, Carbon Film,	470 ohm 1/8W ± 5% .....	002-108-5-471
R-50	Resistor, Carbon Film,	820 ohm 1/8W ± 5% .....	002-108-5-821
R-40	Resistor, Carbon Film,	22 ohm 1/8W ± 5% .....	002-108-5-220
R-3,9,12,14,22,23,57,66, 75,82,70,17,51	Resistor, Carbon Film,	1K ohm 1/8W ± 5% .....	002-108-5-102
R-92	Resistor, Carbon Film,	1.5K ohm 1/8W ± 5% .....	002-108-5-152
R-5,6,13,80,81,67,63	Resistor, Carbon Film,	2.2K ohm 1/8W ± 5% .....	002-108-5-222
R-46	Resistor, Carbon Film,	2.7K ohm 1/8W ± 5% .....	002-108-5-272
R-76	Resistor, Carbon Film,	3.3K ohm 1/8W ± 5% .....	002-108-5-332
R-37	Resistor, Carbon Film,	3.9K ohm 1/8W ± 5% .....	002-108-5-392
R-10,55,73,58,79	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 1/8W ± 5% .....	002-108-5-822
R-8,20,30,36,59,86	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

**CIRCUIT  
SYMBOL**

**DESCRIPTION**

**DYNASCAN  
PART NO.**

**FIXED RESISTORS (Continued)**

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-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

**CAPACITORS**

C-59,101,102,57	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	±20%	022-172-9-001
C-2,34,99	Capacitor, Electrolytic,	4.7μF	25V	±20%	022-157-9-003
C-31	Capacitor, Electrolytic,	10μF	10V	±20%	022-172-9-002
C-58,94,123,144	Capacitor, Electrolytic,	10μF	16V	±20%	022-157-9-004
C-38	Capacitor, Electrolytic,	22μF	10V	±20%	022-163-9-001
C-91	Capacitor, Electrolytic,	33μF	16V	±20%	022-157-9-006
C-82,88,114	Capacitor, Electrolytic,	47μF	10V	±20%	022-160-9-002
C-63	Capacitor, Electrolytic,	47μF	16V	±20%	022-164-9-002
C-36	Capacitor, Electrolytic,	100μF	16V	±20%	022-157-9-009
C-119,143	Capacitor, Electrolytic,	220μF	16V	±20%	022-163-9-001
C-104,118	Capacitor, Electrolytic,	470μF	10V	±20%	022-160-9-001
C-67	Capacitor, Electrolytic,	470μF	16V	±20%	022-157-9-011
C-65	Capacitor, Electrolytic,	1000μF	16V	±20%	022-158-9-004
C-116	Capacitor, Electrolytic,	220μF	10V	±20%	022-171-9-002
C-103	Capacitor, Aluminum Solid,	0.22μF	16V	±20%	022-172-9-003
C-32,54,96	Capacitor, Polyeter Film,	0.022μF	25V	±20%	025-137-9-006
C-21,57,62,95	Capacitor, Polyeter Film,	0.001μF	25V	±20%	025-134-9-001
C-29	Capacitor, Polyeter Film,	0.0022μF	25V	±20%	025-137-9-001
C-56	Capacitor, Polyester Film,	0.0068μF	25V	±20%	025-134-9-004
C-27	Capacitor, Polyester Film,	0.0047μF	25V	±20%	025-134-9-003
C-28	Capacitor, Polyester Film,	0.01μF	25V	±20%	025-137-9-002
C-89	Capacitor, Polyester Film,	0.033μF	25V	±20%	025-137-9-003
C-14,19	Capacitor, Polyester Film,	0.047μF	25V	±20%	025-137-9-004
C-73	Capacitor, Polyester Film,	0.1μF	25V	±20%	025-137-9-005
C-111	Capacitor, Ceramic Disk,	33pF	50V	±10%	CH.... 020-205-9-001
C-1	Capacitor, Ceramic Disk,	22pF	50V	±10%	RH.... 020-205-9-002
C-75	Capacitor, Ceramic Disk,	33pF	50V	±10%	RH.... 020-205-9-003
C-40	Capacitor, Ceramic Disk,	68pF	50V	±10%	RH.... 020-196-9-001
C-108	Capacitor, Ceramic Disk,	100pF	50V	±10%	RH.... 020-205-9-004
C-109	Capacitor, Ceramic Disk,	220pF	50V	±10%	RH.... 020-205-9-005
C-74	Capacitor, Ceramic Disk,	68pF	50V	±10%	UJ.... 020-205-9-006
C-76	Capacitor, Ceramic Disk,	100pF	50V	±10%	UJ.... 020-205-9-007
C-77	Capacitor, Ceramic Disk,	220pF	50V	±10%	UJ.... 020-205-9-008
C-18	Capacitor, Ceramic Disk,	1pF	50V	±0.25pF	SL.... 020-190-9-001
C-83	Capacitor, Ceramic Disk,	5pF	50V	±10%	SL.... 020-181-9-003
C-78	Capacitor, Ceramic Disk,	10pF	50V	±10%	SL.... 020-181-9-004
C-72,401	Capacitor, Ceramic Disk,	33pF	50V	±10%	SL.... 020-180-9-012
C-107	Capacitor, Ceramic Disk,	47pF	50V	±10%	SL.... 020-180-9-013
C-45	Capacitor, Ceramic Disk,	56pF	50V	±10%	SL.... 020-196-9-004
C-142	Capacitor, Ceramic Disk,	2pF	50V	±10%	SL.... 020-181-9-002
C-5	Capacitor, Ceramic Disk,	220pF	50V	±10%	SL.... 020-180-9-019
C-90	Capacitor, Ceramic Disk,	270pF	50V	±10%	SL.... 020-190-9-010

**CIRCUIT  
SYMBOL**

**DESCRIPTION**

**DYNASCAN  
PART NO.**

**CAPACITORS (Continued)**

C-46	Capacitor, Ceramic Disk,	250pF	50V	±10%	SL .....	020-181-9-007
C-41,42	Capacitor, Ceramic Disk,	330pF	50V	±10%	SL .....	020-181-9-008
C-110	Capacitor, Ceramic Disk,	470pF	50V	±10%	SL .....	020-205-9-009
C-97	Capacitor, Ceramic Disk,	0.0022μF	50V	+80% -20%	YF .....	020-190-9-013
C-13,61,69,92,93,126,501, 503,401,402,122,55,403	Capacitor, Ceramic Disk,	0.001μF	50V	+80% -20%	YF .....	020-190-9-012
C-44,50	Capacitor, Ceramic Disk,	0.0047μF	50V	±20%	YD .....	020-204-9-018
C-3,4,6,7,8,9,10,11,33,35, 49,51,52,53,60,64,79, 80,81,84,85,86,87,98, 100,105,106,113,115, 117,120,121,124,125, 127,128,129,130,131, 132,133,502,504	Capacitor, Ceramic Disk,	0.01μF	50V	+80% -20%	YF .....	020-190-9-015
C-43,47,48,68,71	Capacitor, Ceramic Disk,	0.039μF	25V	+80% -20%	ZF .....	020-206-9-001
C-17,25,20,23,24,26,39, 112,134	Capacitor, Ceramic Disk,	0.047μF	25V	+80% -20%	ZF .....	020-205-9-010
C-66	Capacitor, Ceramic Disk,	0.1μF	25V	±10%	.....	020-205-9-011
VC-1	Trimmer Capacitor,	50pF	CV-048	.....	.....	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 .....	302-314-9-001
	Printed Circuit Board, Channel Selector, PC-419AA .....	302-317-9-001
	Printed Circuit Board, LED Display, PC-418AA .....	302-316-9-001
	Printed Circuit Board, Mike Connector, PC-181AA .....	302-234-9-001
CF-1	Ceramic Filter, 10.695 MHz FL-048 .....	140-020-9-001
CF-2	Ceramic Filter, 455 kHz FL-066 .....	140-022-9-001
S-201	Rotary Switch, Channel Selector, SR-213 .....	083-238-9-001
S-402,403	Slide Switch, PA-CB, ANL-OFF, SW-054 .....	084-051-9-001
	Insulator for IC-1, YD-039 .....	350-007-9-001
	Insulator for TR-7, YD-041 .....	350-008-9-001
	Flat Cable, WF-001, 3.5-55-3.5 .....	426-036-9-001
	Flat Cable, WF-005, 3.5-90-3.5 .....	426-038-9-001
	Flat Cable, WF-005, 3.5-65-3.5 .....	426-038-9-002
	DC Power Cord, W-070088 .....	426-021-9-001
SP-401	Speaker, SP-052 4" x 4" 16 ohm .....	580-028-9-001
M-401	Meter, MT-134 with lite .....	320-095-9-001
	Microphone, MK-075, Dynamic .....	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 Consent JK-052 .....	762-020-9-001
TP1,2,3,4	Test Point Terminal TP-029 .....	
F-401	Fuse, FS-012 2A .....	191-251-3-002
	Lite, Meter .....	400-054-9-001
	Main Chassis .....	257-103-9-001
	Case, Top .....	272-130-9-001
	Case Bottom .....	272-131-9-001
	Heat Sink .....	747-061-9-001

CIRCUIT  
SYMBOL

DESCRIPTION

DYNASCAN  
PART NO.

MISCELLANEOUS (Continued)

Mounting Bracket .....	251-352-9-001
Microphone Hanger .....	741-074-9-001
Front Panel .....	255-169-9-001
Knob for Squelch/Volume/Dynamike .....	751-095-9-002
Channel Selector Knob .....	751-151-9-001
Screw for Mounting Bracket .....	634-100-9-001
F.C.C. Plate .....	
Front Plate .....	260-154-9-002
Label for Warning .....	
Channel Display Window .....	380-305-9-001
Felt Washer for Knob .....	347-078-9-001
Rubber Washer .....	381-085-9-002
Wool Tac for Cases .....	763-109-9-002
Screw, Pan Head 3 DIA x 6 Metric .....	634-051-9-001
Screw, Flat Head, 3 DIA x 6 Metric .....	634-081-9-004
Screw, Bind Head, 2 DIA x 5 Metric .....	634-099-9-001
Screw, Bind Head, 3 DIA x 6 .....	634-053-9-001
Screw, Bind Head, 3 DIA x 8 Metric .....	634-067-9-001
Tapping Screw, Round Head, 3.5 x 8 .....	710-020-9-001
Tapping Screw, Round Head, 5 x 10 .....	710-021-9-002
Lock Washer, 3.5 I.D. ....	731-041-9-001
Lock Washer, 5 I.D. ....	731-041-9-002
Screw, Binding Head, Tap Tight, 3 x 6 .....	710-021-9-004
Hexagon Nut 2 I.D. Metric .....	653-026-9-001
Hexagon Nut 3 I.D. Metric .....	653-024-9-001
Frange Nut 3 I.D. Metric .....	653-026-9-002
Spring for Knob .....	763-084-9-004
Rivet 3.2 x 3.2 .....	733-022-9-001
Display Box .....	500-367-9-001
Master Carton .....	
Styrofoam, Front .....	503-153-9-001
Styrofoam, Rear .....	503-153-9-002
Instruction Manual .....	480-226-9-001
Circuit Diagram/Bill of Material .....	499-132-9-001
Warranty Card .....	
Service Station Card .....	
F.C.C. Application Form .....	
F.C.C. Form 555B, Temporary License Form .....	
F.C.C. Rule Part 95 .....	

499-132-9-001