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## Cobra 140GTL Parts List

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# BILL OF MATERIAL FOR COBRA 140GTL

CIRCUIT	DESCRIPTION		DYNASCAN PART NO.
	SEMICONDUCTORS		
IC-1 IC-2 IC-3 IC-4 IC-5 IC-6	Integrated Circuit, Integrated Circuit, Integrated Circuit, Integrated Circuit, Integrated Circuit, Integrated Circuit,	UHIC-007 MB8719 AN612 TA7222P MB3756 SO42P	307-128-9-002 307-143-9-002 307-143-9-003 307-133-9-005
FET-1	Field Effect Transistor,	2SK19-BL	182-037-9-001
TR-7,14,30,31 TR-36 TR-4,5,8,11,13,15,20,27, 28,29,32,33,35,37	Transistor, Transistor, Transistor,	2SA733-P	176-048-9-002 176-062-9-001
TR-34 TR-9,18,17 TR-1,2,6,10,12,19,21,22, 23,24,25,42	Transistor, Transistor, Transistor,	2SC1419-C	176-081-9-002
TR-3,16 TR-40 TR-41 TR-38 TR-39	Transistor, Transistor, Transistor, Transistor, Transistor,	2SC1730-L 2SC496-O 2SC1969-B 2SC1973 2SC1306	176-087-9-001 176-087-9-002 176-073-9-003
D-3,4,5,6,7,8,10,11,12, 15,16,17,18,19,20,23, 24,25,26,27,28,29,30, 31,32,33,34,35,36,38, 39,40,41,43,44,48,49,	Diode,	1S1588	
D-1,2,9,21,22,42 D-13,14 D-45 D-402 D-401 D-46 D-47 D-37	Diode, Diode, Diode, Diode, LED, Diode, LED, Diode, Varistor, Diode, Varistor, Diode, Varicap,	1N60 MC301 SR1K-2 TLRG101 TLR-321 MV-1Y MV-13YH 1S2687D	151-073-9-001 151-045-9-001 158-020-9-001 158-014-9-001 004-175-9-001 153-011-9-001
	INDUCTORS		
L-1 L-27 L-2 L-14 L-13 L-19 L-20 L-26 L-28 L-17 L-29 L-3	Coil,	LA-038 LA-160 LA-179 LA-195 LA-216 LA-217 LA-218 LA-219 LA-220 LA-223 LA-255	060-025-9-008 060-025-9-010 060-030-9-001 060-030-9-002 060-030-9-003 060-030-9-005 060-030-9-006 060-030-9-007 060-030-9-008

CIRCUIT SYMBOL	DESCRIPTION	DYNASCA PART NO.	
	INDUCTORS (Continued)	FART NO.	
L-18	Coil, LA-256	060-030-9-0	
L-6	Coil, LA-257	060-030-9-	
L-7	Coil, LA-258	060-030-9-	
L-8	Coil, LA-259	060-030-9-	
L-9	Coil, LA-260		
L-10	Coil, LA-261	060-030-9-	
L-5	Coil, LA-262	060-030-9-	
L-4	Coil, LA-263	060-030-9-	
L-53,404,405,50,51,52	Coil, LD-077		
L-36,39	Coil, LD-019		
L-401,402	Coil, LD-013		
L-403	Coil, LD-089		
L-31,34	Coil, LD-087		
L-30	Coil, LD-096		
L-35,33	Coil, LD-098		
L-32	Coil, LD-101		
L-37,38	Coil, LE-051		
L-12,25	Micro Inductor, LZ-012 100μH		
L-11,15,16,21,22,23,24	Micro Inductor, LZ-012 470μH		
T-1	Choke Coil, Line Filter, TF-147	046-023-9-	
	SEMI-FIXED & VARIABLE RESISTORS		
VR-8	Resistor, Semi-Fixed, RV-189 500 ohm B	008-342-9-0	
VR-6,9	Resistor, Semi-Fixed, RV-189 5K ohm B	008-316-9-0	
VR-1,5,7	Resistor, Semi-Fixed, RV-189 10K ohm B	008-342-9-	
VR-10	Resistor, Semi-Fixed, RV-189 100K ohm B	008-316-9-0	
VR-2	Resistor, Semi-Fixed, RV-189 1K ohm B	008-334-9-0	
VR-3	Resistor, Semi-Fixed, RV-189 3K ohm B	008-323-9-	
VR-401	Resistor, Variable, RV-204 100K ohm B, Squelch	008-342-9-0	
VR-402	Resistor, Variable, RV-203 20K ohm B, VoiceLock	008-342-9-	
VR-403	Resistor, Variable, RV-205 10K ohm A, Volume Control		
VR-404			
	FIXED RESISTORS		
R-185	Resistor, Metalic Film, 220 ohm 1W ±10%	001-001-6-	
R-112	Resistor, Metalic Film, 100 ohm 1W ±10%	002-001-6-	
R-150	Resistor, Carbon Film, 270 ohm 1/2W ± 5%	002-102-5-	
R-403	Resistor, Carbon Film, $1K \text{ ohm } 1/2W \pm 5\% \dots$	002-102-5-	
R-148	Resistor, Carbon Composit 10K ohm 1/2W ±10%		
R-55	Resistor, Carbon Film, 2.2 ohm 1/8W ± 5%		
R-153	Resistor, Carbon Film, 4.7 ohm 1/8W ± 5%		
R-163	Resistor, Carbon Film, 10 ohm 1/8W ± 5%		
R-162	Resistor, Metalic Film, 100 ohm 1/2W ±10%		
R-8,21,62,19	Resistor, Carbon Film, 68 ohm 1/8W ± 5%		
R-23,42,43,46,83,127, 149,156,157,158,159	Resistor, Carbon Film, 100 ohm 1/8W ± 5%	002-108-5-	
R-7,61	Resistor, Carbon Film, 150 ohm 1/8W ± 5%		
R-4,53,56,106,129,152	Resistor, Carbon Film, 220 ohm 1/8W ± 5%	002-108-5-2	
R-14,151,155,179,182	Resistor, Carbon Film, 330 ohm 1/8W ± 5%		
R-3	Resistor, Carbon Film, 470 ohm 1/8W ± 5%	002-108-5-4	
R-85,176,194	Resistor, Carbon Film, 560 ohm 1/8W ± 5%		
R-26,118	Resistor, Carbon Film, 680 ohm 1/8W ± 5%		

CIRCUIT SYMBOL	DESCRIPTION			DYNASCAN PART NO.
	RESISTORS (Continued)			
R-172,191 R-54 R-178 R-135,401,402,404,405, 406,407,408,409,410, 411,412,413	Resistor, Carbon Film, Resistor, Carbon Film, Resistor, Carbon Film, Resistor, Carbon Film,	150 ohm 1/8W 270 ohm 1/8W 1.2K ohm 1/8W 1.8K ohm 1/8W	±5% ±5% ±5% ±5%	002-108-5-271 002-108-5-122
R-48,71,105,60,125 R-34,36,79,77,78,110, 131,154	Resistor, Carbon Film, Resistor, Carbon Film,		±5% ±5%	
R-6,72,192,183 R-2,16,18,68,25,31,50,189, 58,89,97,98,117,124,120	Resistor, Carbon Film, Resistor, Carbon Film,	3.3K ohm 1/8W	±5% ±5%	002-108-5-332
R-30,35,39,80,88,91,93, 107,121,126,128,132, 144,145,186,32,114,193	Resistor, Carbon Film,		±5%	002-108-5-102
R-38,177 R-20,37,111,123 R-136 R-76	Resistor, Carbon Film, Resistor, Carbon Film, Resistor, Carbon Film, Resistor, Carbon Film,	3.9K ohm 1/8W 4.7K ohm 1/8W 5.6K ohm 1/8W 6.8K ohm 1/8W	±5%	002-108-5-392 002-108-5-472 002-108-5-562 002-108-5-682
R-141 R-11,12,13,15,29,40,44, 90,94,99,109,181,130, 133,134,137,143,140, 104	Resistor, Carbon Film, Resistor, Carbon Film,	8.2K ohm 1/8W 10K ohm 1/8W	±5% ±5%	002-108-5-822 002-108-5-103
R-24,74 R-102 R-142,1	Resistor, Carbon Film, Resistor, Carbon Film, Resistor, Carbon Film,	12K ohm 1/8W 15K ohm 1/8W 18K ohm 1/8W	±5% ±5%	002-108-5-153 002-108-5-183
R-41,116,147,108,187 R-73,75,100 R-5,28,59,64,96,66,87, 95	Resistor, Carbon Film, Resistor, Carbon Film, Resistor, Carbon Film,	22K ohm 1/8W .33K ohm 1/8W 47K ohm 1/8W	±5% ±5% ±5%	002-108-5-333
R-9,63,65,92 R-82 R-45	Resistor, Carbon Film, Resistor, Carbon Film, Resistor, Carbon Film,	150K ohm 1/8W	±5% ±5%	002-108-5-154
R-84 R-22 R-10	Resistor, Carbon Film, Resistor, Carbon Film, Resistor, Carbon Film,	270K ohm 1/8W 330K ohm 1/8W	±5% ±5% ±5%	002-108-5-274 002-108-5-334
R-103,101 R-81 R-184	Resistor, Carbon Film, Resistor, Carbon Film, Resistor, Carbon Film,	1M ohm 1/8W 100 ohm 1/8W 150 ohm 1/8W	±5%	002-108-5-105 002-108-5-101
R-425 R-17,19,33, 13,122 R-70	Resistor, Carbon Film, Resistor, Carbon Film, Resistor, Carbon Film,	47K ohm 1/8W 1K ohm 1/8W 1.8K ohm 1/8W	±5% ±5% ±5%	002-108-5-473 002-108-5-102 002-108-5-182
R-47,49,146 R-188 R-115 R-52,57,86,180	Resistor, Carbon Film, Resistor, Carbon Film, Resistor, Carbon Film, Resistor, Carbon Film,	3.3K ohm 1/8W 6.8K ohm 1/8W	±5%	002-108-5-332 002-108-5-682
R-27 R-67	Resistor, Carbon Film, Resistor, Carbon Film,	33K ohm 1/8W	±5% ±5%	002-108-5-333
	CAPACITORS			
C-109,13 C-7,19 C-62,63	Capacitor, Tantalum, Capacitor, Tantalum, Capacitor, Tantalum,	0.2 <b>2</b> μF 16	V ±20% V ±20% V ±20%	027-035-9-002

CIRCUIT SYMBOL	DESCRIPTION				DYNASCAN PART NO.
	CAPACITORS (Continued)				
C-72 C-59,193 C-84,113 C-16,17,27,121,142 C-119,146,162,169 C-15,83 C-73,112 C-90,120,133 C-117,164 C-180 C-24,26,9 ,114 C-107 C-118 C-66 C-134 C-58,115 C-82,85	Capacitor, Tantalum, Capacitor, Tantalum, Capacitor, Tantalum, Capacitor, Electrolytic, Capacitor, Polyester Film, Capacitor, Polyester Film,	4.7μF 1μF 22μF 0.47μF 1μF 2.2μF 4.7μF 10μF 22μF 47μF 220μF 470μF 1000μF 1000μF 0.001μF 0.0047μF	25V 6.3V 50V 25V 25V 16V 25V 10V 10V 10V 25V 50V 50V	±20% ±20%	027-0 <b>35</b> -9-004 023-157-9-001 022-157-9-002 022-158-9-002 022-157-9-003 022-157-9-004 022-171-9-001 022-160-9-002 022-171-9-002 022-171-9-003 022-171-9-003 022-171-9-004 025-122-9-002
C-89, 93, 161 C-86, 25, 194 C-71, 88, 108, 168, 190 C-28, 61, 79, 150, 153, 116, 110	Capacitor, Polyester Film, Capacitor, Polyester Film, Capacitor, Polyester Film, Capacitor, Polyester Film,	0.033μF 0.047μF	50V 50V 50V 50V	±10% ±10% ±10%	025-121-9-004 025-121-9-006
	Capacitor, Polyester Film, Capacitor, Polyester Film, Capacitor, Ceramic Disk,	0.0022μF	50V 50V 50V 50V 50V 50V 50V 50V 50V 50V	±10%	039-041-9-003
C-127 C-128 C-163 C-3,6,9,30,32,34,39,40,41, 98,101,404,405,406, 407,31,165,403,415, 172,176,178,192	Capacitor, Ceramic Disk, Capacitor, Ceramic Disk, Capacitor, Ceramic Disk, Capacitor, Ceramic Disk,	220pF 470pF 120pF 0.001μF	50V 50V 50V 50V	±10% SL ±10% SL ±10% RH	020-180-9-019 020-204-9-016 020-181-9-006

CIRCUIT	
SYMBOL	DYNASCAN PART NO.
CAPACITORS (Continued)	
C-35,37,33,138,141,202, Capacitor, Ceramic Disk, 0.0047µF 50V ±20% YD 203,204,205,135,137, 136,155,156,157,152, 154,173	020-204-9-018
C-74,48,75,67,78,94,95, Capacitor, Ceramic Disk, 0.01μF 50V ±20% YD 100,103,106,122,123, 124,125,129,130,131, 60,99,77,401,189,181	020-204-9-019
C-1,2,4,5,12,11,18,14, Capacitor, Ceramic Disk, 0.022μF 50V <sup>-20%</sup> YF 20,45,46,47,49,50, 51,52,54,56,68,87, 167,206,177,208,402	020-204-9-020
C-182 Capacitor, Ceramic Disk, $0.047 \mu F$ $50V$ $^{-20\%}_{+80\%}$ ZF C-207 Capacitor, Ceramic Disk, $0.1 \mu F$ $50V$ $^{-20\%}_{-20\%}$ ZF $^{+80\%}$	020-204-9-021 020-204-9-022
	028-051-9-001
CT-1,2,3 Trimmer Capacitor, CV-028 20P	028-051-9-001
CT-1,2,3 Trimmer Capacitor, CV-028 20P  CC-1 Capacitor Array, 1000pF 50WVx5 HA-003	
CC-1 Capacitor Array, 1000pF 50WVx5 HA-003	. 527-077-9-002 . 133-014-9-001 . 133-019-9-001 . 133-019-9-002
CC-1 Capacitor Array, 1000pF 50WVx5 HA-003  CRYSTALS  X-1 Quartz Crystal, QX-077, 10.24 MHz	. 527-077-9-002 . 133-014-9-001 . 133-019-9-001 . 133-019-9-002
CC-1  Capacitor Array, 1000pF 50WVx5 HA-003  CRYSTALS  X-1  Quartz Crystal, QX-077, 10.24 MHz	. 133-014-9-001 . 133-019-9-001 . 133-019-9-002 . 133-019-9-003 . 133-019-9-003 . 133-019-9-003 . 083-235-9-001 . 083-235-9-001 . 084-063-9-001 . 084-063-9-001 . 320-092-9-001 . 772-036-9-001 . 772-036-9-001 . 772-038-9-001 . 772-038-9-001 . 772-038-9-001 . 772-038-9-001 . 772-038-9-001 . 757-028-9-002 . 191-251-3-004 . 350-006-9-001 . 342-039-9-001 . 759-084-9-001

CIRCUIT
<b>SYMBOL</b>

#### DESCRIPTION

#### DYNASCAN PART NO.

## MISCELLANEOUS (Continued)

Flat Cable, WF-011, 3.5-50-3.5	
DC power Cord, W-070234	426-035-9-004
A10.00	
Main Chassis, AIP 2.0t	
Case, Top 1.0t Black	272-127-9-001
Case, Bottom 1.0t Black	
Mounting Bracket, SPCC 2.0t ZMC3	251-351-9-001
Front Chassis, SPCC 1.0t ZMC3	254-031-9-001
Microphone Hanger, SPCC 1.0t i3	741-074-9-001
Metal Plate for earth, 0.8t	763-107-9-001
Front Panel	255-167-9-001
Channel selector knob	751-151-9-001
Knob for VR/SQ/RF GAIN/MODE/VOICE-LOCK	751-095-9-002
Light shield, Channel Display	380-304-9-001
Channel Display Holder	753-009-9-002
LED Holder Rubber	381-085-9-001
Meter Holder	763-107-9-002
Screw for Mounting Bracket, Metal	634-088-9-001
Front Plate	260-152-9-001
F.C.C. Plate	
Rubber Washer for Mounting Bracket	381-085-9-002
Warning Label	
Screw, Pan Head 3DIA x 6, Metric	634-051-9-001
Screw, Flat Head, 3DIA x 6, Metric	634-088-9-002
Screw, Binding Head 2DIA x 5, Metric	634-099-9-001
Screw, Binding Head, 2.6 x 5, Metric	634-067-9-003
Screw, Binding Head, 2.6 x 6, Metric	634-099-9-002
Screw, Binding Head, 2.6 x 10, Metric	634-090-9-003
Screw, Binding Head, 3 x 5 Metric	634-067-9-002
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 3.5DIA x 8	710-021-9-001
Tapping Screw, Round Head 5DIA x 10	710-029-9-002
Screw, Binding Head, Tap Tight 3 DIA x 8, Metric	710-036-9-002
Hex Nut, 2.6 I.D. Metric	653-042-9-003
Hex Nut, 3 I.D. Metric	653-024-9-001
Frange Nut, 3 I.D. Metric	653-026-9-002
Spring Washer, 2.6 I.D.	
Lock Washer, 3.5 I.D.	731-041-9-001
Lock Washer, 5 I.D.	731-041-9-002
Lug Terminal, 3 DIA	345-052-9-001
Spring for Knob	
Rivet, 3.2 DIA x 5	
Styrofoam, Front	503-151- <b>9</b> -001
Styrofoam, Rear	
Display Box	500-362-9-001
Master Carton	
Instruction Manual	
Circuit Diagram/Bill of Material	499-138-9-001
F.C.C. Application Form 505	
Warranty Card	
Service Station List	
F.C.C. Form 555B	
F.C.C. Rules Part 95	