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## Cobra 63GTL Parts List

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# BILL OF MATERIAL FOR COBRA 63GTL

CIRCUIT SYMBOL	DESCRIPTION	DYNASCAN PART NO.
<b>SEMICONDUCTORS</b>		
IC-1	Integrated Circuit, PLL, $\mu$ PD2816C ..	307-145-9-001
IC-2,3	Integrated Circuit, VCO/TX MIXER, TA7310P ....	307-133-9-004
IC-4	Integrated Circuit, AF, POWER AMP, AN829S .....	307-133-9-006
IC-5,6	Integrated Circuit, AF, POWER, TA7222P.....	307-143-9-003
FET-1,2	Field Effect Transistor, 2SK104-H .....	182-055-9-001
TR-17	Transistor, 2SA733-P .....	177-020-9-001
TR-2,6,7,8,9,15,18,19	Transistor, 2SC458-C .....	176-048-9-002
TR-1	Transistor, 2SC1674-L .....	176-081-9-002
TR-3,4,5,14	Transistor, 2SC460-C .....	176-092-9-001
TR-10	Transistor, 2SC2001-L .....	176-092-9-002
TR-13	Transistor, 2SC2076-C .....	176-060-9-004
TR-12,16	Transistor, 2SC2091 .....	176-074-9-002
TR-11	Transistor, 2SC2092 .....	176-074-9-003
D-3,4,11	Diode, 1N60AM .....	150-014-9-001
D-1,2	Diode, MC301 .....	151-072-9-001
D-9,19,20	Diode, SR1K-1 .....	151-040-9-003
D-5	Diode, 1S2075-K .....	151-061-9-001
D-6,7,8,10,12,14,15,17	Diode, 1S2076 .....	151-067-9-001
D-18	Diode, Zener, XZ-051 .....	152-088-9-001
D-16	Diode, Zener, XZ-086 .....	152-089-9-001
D-13	Diode, Vari-Cap 1S2688-EA .....	154-004-9-001
<b>INDUCTORS</b>		
L-1	Coil, LA-029 .....	060-023-9-001
L-16	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-20	Coil, LA-166 .....	066-025-9-005
L-3	Coil, LA-181 .....	060-024-9-002
L-17	Coil, LA-198 .....	060-029-9-001
L-18	Coil, LA-201 .....	046-024-9-002
L-6	Coil, LA-204 .....	046-024-9-003
L-15	Coil, LA-208 .....	060-029-9-004
L-4	Coil, LA-274 .....	046-025-9-002
L-19	Coil, LA-275 .....	046-025-9-003
L-7	Coil, LA-276 .....	046-024-9-004
L-8,14	Coil, LC-018 .....	041-056-9-003
L-11	Coil, LC-019 .....	041-088-9-001
L-12	Coil, LD-012 .....	041-069-9-004
L-13	Coil, LD-087 .....	044-048-9-003
L-21,22	Coil, LD-088 .....	044-051-9-001
L-10	Coil, LE-088 .....	041-104-9-001
L-9	Coil, LE-089 .....	041-104-9-002
T-2	Coil, TF-083 Line Filter .....	042-021-9-001
T-4	Coil, TF-137 Audio Filter .....	042-028-9-001
T-1	Output Transformer, TF-135 .....	061-040-9-001
T-3	Transformer for Microphone, TF-146 .....	061-040-9-002

**CIRCUIT  
SYMBOL**

**DESCRIPTION**

**DYNASCAN  
PART NO.**

**SEMI-FIXED RESISTORS**

VR-1,2	Semi-Fixed Resistor, RV-189 50K ohm	B.....	008-316-9-002
VR-3	Semi-Fixed Resistor, RV-189 5K ohm	B.....	008-316-9-004

**FIXED RESISTORS**

R-43	Resistor, Metallic Film, 4.7 ohm 2W	±5%.....	013-037-9-001
R-44	Resistor, Metallic Film, 8 ohm 2W	±5%.....	013-032-9-001
R-96	Resistor, Metallic Film, 120 ohm 1W	±5%.....	013-037-9-002
R-98	Resistor, Metallic Film, 12 ohm 1W	±5%.....	013-037-9-003
R-45	Resistor, Solid, 1K ohm 1/2W	±10% .....	001-102-6-102
R-47	Resistor, Carbon Film, 15 ohm 1/2W	±5%.....	002-102-5-150
R-97	Resistor, Carbon Film, 68 ohm 1/2W	±5%.....	002-102-5-680
R-48	Resistor, Carbon Film, 6.8 ohm 1/8W	±5%.....	002-108-5-689
R-76	Resistor, Carbon Film, 10 ohm 1/8W	±5%.....	002-108-5-100
R-53	Resistor, Carbon Film, 18 ohm 1/8W	±5%.....	002-108-5-180
R-36,46	Resistor, Carbon Film, 22 ohm 1/8W	±5%.....	002-108-5-220
R-17,50	Resistor, Carbon Film, 47 ohm 1/8W	±5%.....	002-108-5-470
R-26,49,54,92,93,94	Resistor, Carbon Film, 56 ohm 1/8W	±5%.....	002-108-5-560
R-6,9,14,21,78,80	Resistor, Carbon Film, 100 ohm 1/8W	±5%.....	002-108-5-101
R-95	Resistor, Carbon Film, 150 ohm 1/8W	±5%.....	002-108-5-151
R-79	Resistor, Carbon Film, 180 ohm 1/8W	±5%.....	002-108-5-181
R-25	Resistor, Carbon Film, 220 ohm 1/8W	±5%.....	002-108-5-221
R-24,66,71	Resistor, Carbon Film, 470 ohm 1/8W	±5%.....	002-108-5-471
R-18,55,61	Resistor, Carbon Film, 560 ohm 1/8W	±5%.....	002-108-5-561
R-52,88	Resistor, Carbon Film, 680 ohm 1/8W	±5%.....	002-108-5-681
R-16,19,23,34,56,62,72, 75,90,4,100	Resistor, Carbon Film, 1K ohm 1/8W	±5%.....	002-108-5-102
R-82	Resistor, Carbon Film, 1.2K ohm 1/8W	±5%.....	002-108-5-129
R-58,73	Resistor, Carbon Film, 1.8K ohm 1/8W	±5%.....	002-108-5-189
R-8,12,15,35,60,77,86,7	Resistor, Carbon Film, 2.2K ohm 1/8W	±5%.....	002-108-5-222
R-10	Resistor, Carbon Film, 2.7K ohm 1/8W	±5%.....	002-108-5-272
R-84,41	Resistor, Carbon Film, 3.3K ohm 1/8W	±5%.....	002-108-5-332
R-51	Resistor, Carbon Film, 3.9K ohm 1/8W	±5%.....	002-108-5-392
R-1,13,65,85,87	Resistor, Carbon Film, 4.7K ohm 1/8W	±5%.....	002-108-5-472
R-22,37,69	Resistor, Carbon Film, 5.6K ohm 1/8W	±5%.....	002-108-5-562
R-64	Resistor, Carbon Film, 8.2K ohm 1/8W	±5%.....	002-108-5-822
R-2	Resistor, Carbon Film, 6.8K ohm 1/8W	±5%.....	002-108-5-682
R-11,57,59,63,70,74,83	Resistor, Carbon Film, 10K ohm 1/8W	±5%.....	002-108-5-103
R-5,67	Resistor, Carbon Film, 18K ohm 1/8W	±5%.....	002-108-5-183
R-27,38,81	Resistor, Carbon Film, 22K ohm 1/8W	±5%.....	002-108-5-223
R-39,40,3,32	Resistor, Carbon Film, 33K ohm 1/8W	±5%.....	002-108-5-333
R-99	Resistor, Carbon Film, 47K ohm 1/8W	±5%.....	002-108-5-473
R-28,29,30,31,42	Resistor, Carbon Film, 56K ohm 1/8W	±5%.....	002-108-5-563
R-20	Resistor, Carbon Film, 68K ohm 1/8W	±5%.....	002-108-5-683
R-89,91	Resistor, Carbon Film, 100K ohm 1/8W	±5%.....	002-108-5-104
R-68	Resistor, Carbon Film, 120K ohm 1/8W	±5%.....	002-108-5-124
R-33	Resistor, Carbon Film, 39K ohm 1/8W	±5%.....	002-108-5-393

**CAPACITORS**

C-24,54,115	Capacitor, Electrolytic, 1μF 50V .....	022-157-9-002
C-33	Capacitor, Electrolytic, 4.7μF 25V .....	022-157-9-003
C-55,59,76,77	Capacitor, Electrolytic, 2.2μF 25V .....	022-158-9-002
C-4,28,29,32,112	Capacitor, Electrolytic, 10μF 16V .....	022-157-9-004
C-62,80,119	Capacitor, Electrolytic, 47μF 16V .....	022-164-9-002

CIRCUIT SYMBOL	DESCRIPTION			DYNASCAN PART NO.
<b>CAPACITORS (Continued)</b>				
C-49,133	Capacitor, Electrolytic,	100 $\mu$ F	16V	022-157-9-009
C-120	Capacitor, Electrolytic,	220 $\mu$ F	16V	022-163-9-003
C-65,84	Capacitor, Electrolytic,	330 $\mu$ F	16V	022-158-9-003
C-66,69	Capacitor, Electrolytic,	470 $\mu$ F	16V	022-076-9-008
C-67,73,83	Capacitor, Electrolytic,	33 $\mu$ F	10V	022-158-9-005
C-90	Capacitor, Electrolytic,	100 $\mu$ F	10V	022-157-9-008
C-27	Capacitor, Electrolytic,	220 $\mu$ F	10V	022-171-9-002
C-124	Capacitor, Electrolytic,	470 $\mu$ F	6.3V	022-158-9-008
C-113,114	Capacitor, Tantalum,	2.2 $\mu$ F	16V $\pm$ 20%	027-033-9-001
C-61	Capacitor, Tantalum,	4.7 $\mu$ F	16V $\pm$ 20%	027-026-9-004
C-20,79,87,88	Capacitor, Tantalum,	10 $\mu$ F	16V $\pm$ 20%	027-033-9-003
C-17,22,57,68	Capacitor, Tantalum,	0.001 $\mu$ F	25V $\pm$ 20%	027-037-9-001
C-26,70	Capacitor, Tantalum,	0.0022 $\mu$ F	25V $\pm$ 20%	027-037-9-002
C-60	Capacitor, Tantalum,	0.0033 $\mu$ F	25V $\pm$ 20%	027-037-9-003
C-78	Capacitor, Polyester Film,	0.0068 $\mu$ F	25V $\pm$ 20%	025-138-9-001
C-30	Capacitor, Polyester Film,	0.01 $\mu$ F	25V $\pm$ 20%	025-137-9-002
C-23,72,103	Capacitor, Polyester Film,	0.022 $\mu$ F	25V $\pm$ 20%	025-137-9-006
C-13,14	Capacitor, Polyester Film,	0.039 $\mu$ F	25V $\pm$ 20%	025-134-9-006
C-12	Capacitor, Polyester Film,	0.047 $\mu$ F	25V $\pm$ 20%	025-137-9-004
C-21,25,53,63,71,81	Capacitor, Polyester Film,	0.068 $\mu$ F	25V $\pm$ 20%	025-138-9-002
C-104	Capacitor, Ceramic Disk,	47pF	50V $\pm$ 10%	UJ 020-207-9-002
C-39	Capacitor, Ceramic Disk,	0.0047 $\mu$ F	25V $\pm$ 20%	YD 020-196-9-010
C-98	Capacitor, Ceramic Disk,	33pF	50V $\pm$ 10%	CH 020-208-9-001
C-105	Capacitor, Ceramic Disk,	15pF	50V $\pm$ 10%	RH 020-207-9-006
C-1,3	Capacitor, Ceramic Disk,	56pF	50V $\pm$ 10%	RH 020-208-9-002
C-107	Capacitor, Ceramic Disk,	68pF	50V $\pm$ 10%	RH 020-196-9-001
C-106	Capacitor, Ceramic Disk,	150pF	50V $\pm$ 10%	RH 020-207-9-008
C-100	Capacitor, Ceramic Disk,	220pF	50V $\pm$ 10%	RH 020-205-9-005
C-101	Capacitor, Ceramic Disk,	100pF	50V $\pm$ 10%	RH 020-205-9-004
C-15	Capacitor, Ceramic Disk,	1pF	50V $\pm$ 10%	SL 020-190-9-001
C-131	Capacitor, Ceramic Disk,	8pF	50V $\pm$ 10%	SL 020-208-9-003
C-96	Capacitor, Ceramic Disk,	10pF	50V $\pm$ 10%	SL 020-181-9-004
C-95	Capacitor, Ceramic Disk,	15pF	50V $\pm$ 10%	SL 020-180-9-010
C-94	Capacitor, Ceramic Disk,	33pF	50V $\pm$ 10%	SL 020-180-9-012
C-36	Capacitor, Ceramic Disk,	47pF	50V $\pm$ 10%	SL 020-180-9-013
C-41,99	Capacitor, Ceramic Disk,	56pF	50V $\pm$ 10%	SL 020-196-9-004
C-35	Capacitor, Ceramic Disk,	68pF	50V $\pm$ 10%	SL 020-180-9-015
C-108,116	Capacitor, Ceramic Disk,	100pF	50V $\pm$ 10%	SL 020-180-9-016
C-5,42	Capacitor, Ceramic Disk,	250pF	50V $\pm$ 10%	SL 020-181-9-007
C-109	Capacitor, Ceramic Disk,	330pF	50V $\pm$ 10%	SL 020-181-9-008
C-37,38	Capacitor, Ceramic Disk,	390pF	50V $\pm$ 10%	SL 020-190-9-011
C-97	Capacitor, Ceramic Disk,	470pF	50V $\pm$ 10%	SL 020-204-9-016
C-16,19,34,40,45,118,122, 123,140,141	Capacitor, Ceramic Disk,	0.039 $\mu$ F	25V $\begin{matrix} +80\% \\ -20\% \end{matrix}$	ZF 020-207-9-012
C-18,64,82	Capacitor, Ceramic Disk,	0.047 $\mu$ F	25V $\begin{matrix} +80\% \\ -20\% \end{matrix}$	ZF 020-205-9-010
C-9,11,51,56,135,136, 147	Capacitor, Ceramic Disk,	0.001 $\mu$ F	50V $\begin{matrix} +80\% \\ -20\% \end{matrix}$	YF 020-190-9-012
C-2,6,7,8,10,31,32,43,44,46, 47,48,50,58,74,75,85,86,89, 91,92,93,102,110,117,121, 125,126,127,128,129,130, 132,134,137,138,139,140, 142,143,144,145,146,201, 202,203,204,205,206,207, 208,209,210,211,212,213, 214,215,216,148,149	Capacitor, Ceramic Disk,	0.01 $\mu$ F	50V $\begin{matrix} +80\% \\ -20\% \end{matrix}$	F 020-190-9-015

CIRCUIT SYMBOL	DESCRIPTION	DYNASCAN PART NO.
<b>CAPACITORS (Continued)</b>		
C-52,111	Capacitor, Ceramic Disk, 0.022 F 50V $\begin{matrix} +80\% \\ -20\% \end{matrix}$ F	020-208-9-004
CT-1	Trimmer Capacitor, 50pF CV-048 .....	028-052-9-001
<b>CRYSTAL</b>		
X-1	Quartz Crystal, 10.240 MHz QX-074 .....	132-027-9-001
<b>MISCELLANEOUS</b>		
	Printed Circuit Board, Main, PC-422AA .....	
	Printed Circuit Board, Mic Connector, PC-362AA .....	
RY-1	Relay, RL-029 .....	441-022-9-002
	Microphone, MK-097, Dynamic .....	562-026-9-001
J-101	Antenna Connector, JK-035 .....	772-027-9-001
J-201	Microphone Connector, JK-100 .....	772-042-9-001
J-102	Jack, DC Power, Jack, JK-052 .....	762-020-9-001
J-105	Jack, JK-044 .....	773-091-9-001
J-103,104	Jack, JK-089 .....	773-086-9-001
TP-1,2,3,4,5,6	Test Point Terminal, TP-029 .....	
	Fuse, FS-012, 2A .....	191-251-3-002
	Insulator for TR-11, YD-003 .....	350-010-9-001
	DC Power Cord, W-070229 .....	426-032-9-001
XF-1	Crystal Filter, 10.695 MHz, FL-055 .....	143-009-9-001
CF-1	Ceramic Filter, 455 KHz, FL-009 .....	140-009-9-001
	Chassis, Main .....	
	Chassis, Front .....	
	Case, Top .....	272-133-9-001
	Case, Bottom .....	272-133-9-002
	Mounting Bracket .....	251-345-9-001
	Microphone Hanger .....	741-074-9-001
	Heat Sink for final Transistor .....	747-063-9-001
	Heat Sink for Audio IC .....	747-063-9-002
	Bushing for RCA Jack .....	763-110-9-001
	FCC Plate .....	
	Rear Plate .....	260-144-9-002
	Brand Plate .....	
	Warning Label .....	484-035-9-001
	Washer for RCA Jack .....	724-030-9-001
	Insulator for Final Transistor Heat Sink .....	350-009-9-002
	Binding Head Screw, 3D x 5 Metric .....	634-067-9-002
	Flat Washer, Metric .....	724-030-9-002
	Pan Head Screw, 3D x 6, Metric .....	634-051-9-001
	Round Head Tapping Screw, 3.5D x 8, Metric .....	710-020-9-001
	Round Head Tapping Screw, 5D x 10, Metric .....	710-017-9-001
	Lock Washer, 3.5D Metric .....	731-041-9-001
	Lock Washer, 5D Metric .....	731-041-9-002
	Hex Head Bolt 5D x 8 Metric .....	634-102-9-001
	Rivet 3.2D x 3.2 Metric .....	
	Display Box .....	500-370-9-001
	Styrofoam .....	503-149-9-001
	Sleeve .....	503-154-9-001
	Service Station Card .....	

**CIRCUIT  
SYMBOL**

**DESCRIPTION**

**DYNASCAN  
PART NO.**

**MISCELLANEOUS (Continued)**

FCC Application Form 505 .....	
FCC Form 555B .....	
FCC Rule Book Part 95 .....	
Warranty Card .....	
Owner's Manual .....	480-229-9-001
Circuit Diagram/Bill of Material .....	499-135-9-001

499-135-9-001