

# BILL OF MATERIAL FOR COBRA 19XS

| REFERENCE   | PARTS NAME & DESCRIPTION   | DYNASCAN PART NO.  |
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| Q107  | Transistor MPS9634 (C) . . . . .   | 1761289001   |
| Q101, 102, 103  | Transistor MPS9426 (B) . . . . .   | 1770529001   |
| Q203  | Transistor MPS9426 (C) . . . . .   | 1761159001   |
| Q106, 202   | Transistor MPS9681 (T) . . . . .   | 1770499001   |
| Q201  | Transistor MPS9418 (T) . . . . .   | 1761159004   |
| Q104, 105   | Transistor MPS9623 (H) . . . . .   | 1761259001   |
| Q205  | Transistor 2SC2078 (E) . . . . .   | 1720629001   |
| Q204  | Transistor 2SC2314 (E) . . . . .   | 1761209001   |
| IC201   | I.C TA7217AP . . . . .   | 3073319001   |
| IC202   | I.C LC7131 40CH PLL . . . . .  | 3072729002   |
| IC203   | I.C AN103 . . . . .  | 3072729003   |
| D101, 104, 105, 107-110,<br>202, 207  | Diode KDS1555 . . . . .<br>or Diode 1S2473 . . . . .<br>or Diode 1S953 . . . . .<br>or Diode MA150 . . . . .   | 1510289007<br>1510359001<br>1510939001<br>1511089001               |
| D112, 204   | Diode 1A100V . . . . .<br>or IN4002 . . . . .  | 1510509001<br>1510829001   |
| D201  | Diode Varicap MV2209 . . . . .<br>or Diode Varicap SVC251Y . . . . .<br>L.E.D Lamp KLR124 . . . . .<br>L.E.D Display KLR321 . . . . .<br>or L.E.D Display TH2010 RED . . . . . | 1540099001<br>1540089001<br>1580459001<br>2380199001<br>2380249001 |
| D106, 111, 205  | Diode 0A90 . . . . .<br>or Diode GE 1S34 . . . . .<br>or Diode GE IN60 . . . . .   | 1500209001<br>1500169001<br>1500019005                             |
| D203  | Diode Zener UZ9.1B . . . . .<br>or Diode Zener 9.1V . . . . .  | 1521259001<br>1521149001   |
| X101  | Crystal 10.240 MHz HC-18/U . . . . .   | 1320369001   |
| CF1   | Filter Ceramic SFE10.7MS2A . . . . .   | 1400289001   |
| CF2   | Filter Ceramic CFU455HT . . . . .  | 1400269001   |
| R213  | Resistor Carbon Film 100 ohm 1/8W +5% . . . . .  |  |
| R107, 108, 117, 118, 134,<br>222, 230, 231, 232, 301,<br>302, 303, 304, 305, 307,<br>309, 321 | Resistor Carbon Film 1K ohm 1/8W +5% . . . . .   |  |
| R103, 125, 306, 308, 310-<br>314  | Resistor Carbon Film 1K ohm 1/8W +5% . . . . .   |  |

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| R201, 207, 223 | Resistor Carbon Film 10K ohm 1/8W +5%     |            |
| R205           | Resistor Carbon Film 100K ohm 1/8W +5%    |            |
| R211           | Resistor Carbon Film 120 ohm 1/8W +5%     |            |
| R137           | Resistor Carbon Film 1.2K ohm 1/8W +5%    |            |
| R228           | Resistor Carbon Film 1.2K ohm 1/8W +5%    |            |
| R322           | Resistor Carbon Film 150 ohm 1/2W +5%     |            |
| R139           | Resistor Carbon Film 150 ohm 1/8W +5%     |            |
| R133           | Resistor Carbon Film 15K ohm 1/8W +5%     |            |
| R130           | Resistor Carbon Film 150K ohm 1/8W +5%    |            |
| R124           | Resistor Carbon Film 18K ohm 1/8W +5%     |            |
| R215           | Resistor Carbon Film 22 ohm 1/8W +5%      |            |
| R212           | Resistor Carbon Film 22 ohm 1/8W +5%      |            |
| R106, 122, 141 | Resistor Carbon Film 220 ohm 1/8W +5%     |            |
| R120, 135, 204 | Resistor Carbon Film 2.2K ohm 1/8W +5%    |            |
| R102, 119, 136 | Resistor Carbon Film 22K ohm 1/8W +5%     |            |
| R129           | Resistor Carbon Film 22K ohm 1/8W +5%     |            |
| R121           | Resistor Carbon Film 270 ohm 1/8W +5%     |            |
| R218, 229      | Resistor Carbon Film 2.7K ohm 1/8W +5%    |            |
| R109           | Resistor Carbon Film 27K ohm 1/8W +5%     |            |
| R114, 116, 206 | Resistor Carbon Film 330 ohm 1/8W +5%     |            |
| R112           | Resistor Carbon Film 330 ohm 1/8W +5%     |            |
| R131, 138      | Resistor Carbon Film 3.3K ohm 1/8W +5%    |            |
| R110           | Resistor Carbon Film 3.3K ohm 1/8W +5%    |            |
| R203           | Resistor Carbon Film 33K ohm 1/8W +5%     |            |
| R126           | Resistor Carbon Film 33K ohm 1/8W +5%     |            |
| R227           | Resistor Carbon Film 3.3 ohm 1/8W +5%     |            |
| R224           | Resistor Carbon Film 39 ohm 1/8W +5%      |            |
| R210           | Resistor Carbon Film 390 ohm 1/8W +5%     |            |
| R113           | Resistor Carbon Film 3.9K ohm 1/8W +5%    |            |
| R220           | Resistor Carbon Film 47 ohm 1/8W +5%      |            |
| R123, 217      | Resistor Carbon Film 47 ohm 1/8W +5%      |            |
| R140, 214      | Resistor Carbon Film 470 ohm 1/8W +5%     |            |
| R111, 115      | Resistor Carbon Film 470 ohm 1/8W +5%     |            |
| R104, 202, 219 | Resistor Carbon Film 4.7K ohm 1/8W +5%    |            |
| R208, 216      | Resistor Carbon Film 4.7K ohm 1/8W +5%    |            |
| R127, 128      | Resistor Carbon Film 47K ohm 1/8W +5%     |            |
| R234           | Resistor Carbon Film 47K ohm 1/8W +5%     |            |
| R221, 226      | Resistor Carbon Film 68 ohm 1/8W +5%      |            |
| R132           | Resistor Carbon Film 68K ohm 1/8W +5%     |            |
| R225           | Resistor Metal Oxide 10-ohm 2W            | 0130637001 |
| R233           | Resistor Metal Oxide 15 ohm 2W            | 0110025150 |
| VR102          | Resistor Variable (VR) 10KC (W/DPDT SW)   | 0084649001 |
| VR101          | Resistor Variable (VR) 50KA (W/OFF-ON SW) | 0084369002 |
| RV102, 103     | Resistor Semifixed 10K ohm 8 Dia          | 0084079004 |
| RV201          | Resistor Semifixed 2K ohm 8 Dia           | 0084369003 |

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| RV202   | Resistor Semifixed 20KB ohm 8 Dia . . . . .                | 0084079003 |
| C105  | Capacitor Elect 10 $\mu$ F 16WV (5 Dia x 11) . . . . .     |            |
| C241  | Capacitor Elect 1000 $\mu$ F 16WV . . . . .                |            |
| C125  | Capacitor Elect 1.0 $\mu$ F 50WV . . . . .                 |            |
| C239  | Capacitor Elect 220 $\mu$ F 10WV . . . . .                 |            |
| C227  | Capacitor Elect 220 $\mu$ F 16WV (10 Dia x 16.5) . . . . . |            |
| C129, 230, 242  | Capacitor Elect 33 $\mu$ F 6.3WV . . . . .                 |            |
| C253  | Capacitor Elect 3.3 $\mu$ F 50WV . . . . .                 |            |
| C213, 225, 226, 229   | Capacitor Elect 47 $\mu$ F 10WV . . . . .                  |            |
| C254, 256   | Capacitor Elect 47 $\mu$ F 16WV . . . . .                  |            |
| C122, 130, 201, 235   | Capacitor Elect 4.7 $\mu$ F 25WV . . . . .                 |            |
| C124, 128   | Capacitor Mylar 0.01 $\mu$ F 50WV . . . . .                |            |
| C132, 228   | Capacitor Mylar 0.1 $\mu$ F 50WV . . . . .                 |            |
| C131, 237   | Capacitor Mylar 0.0022 $\mu$ F 50WV: J . . . . .           |            |
| C127  | Capacitor Mylar 0.022 $\mu$ F 50WV: J . . . . .            |            |
| C121  | Capacitor Mylar 0.047 $\mu$ F 50WV . . . . .               |            |
| C123, 240   | Capacitor Mylar 0.0068 $\mu$ F 50WV . . . . .              |            |
| C206, 209   | Capacitor Mylar 0.068 $\mu$ F 50WV: K . . . . .            |            |
| C126  | Capacitor Mylar 0.0082 $\mu$ F 50WV . . . . .              |            |
| C205  | Capacitor Ceramic 10pF 50WV . . . . .                      |            |
| C208, 215-218   | Capacitor Ceramic 100pF 50WV . . . . .                     |            |
| C102, 255, 258, 267   | Capacitor Ceramic 0.001 $\mu$ F 50WV . . . . .             |            |
| C107, 108, 109, 112, 117,<br>118, 133, 134, 207, 212,<br>220, 223, 224, 232, 233,<br>243, 244, 251, 257, 263,<br>265, 269, 270, 271 | Capacitor Ceramic 0.01 $\mu$ F 50WV (HIK (B)) . . . . .    |            |
| C260  | Capacitor Ceramic 1.5pF 50WV . . . . .                     |            |
| C236  | Capacitor Ceramic 180pF 50WV . . . . .                     |            |
| C203  | Capacitor Ceramic 20pF 50WV . . . . .                      |            |
| C136, 221   | Capacitor Ceramic 2pF 50WV . . . . .                       |            |
| C238, 247   | Capacitor Ceramic 220pF 50WV . . . . .                     |            |
| C110  | Capacitor Ceramic 27pF 50WV . . . . .                      |            |
| C214, 219, 234, 248   | Capacitor Ceramic 330pF 50WV SL . . . . .                  |            |
| C101, 211   | Capacitor Ceramic 35pF 50WV . . . . .                      |            |
| C111  | Capacitor Ceramic 39pF 50WV . . . . .                      |            |
| C120, 222   | Capacitor Ceramic 4pF 50WV . . . . .                       |            |
| C106, 113, 114, 115, 119,<br>137, 268   | Capacitor Ceramic 0.047 $\mu$ F 50WV . . . . .             |            |
| C116  | Capacitor Ceramic 5pF 50WV . . . . .                       |            |
| C210  | Capacitor Ceramic 60pF (NPO) 50WV . . . . .                |            |
| C245  | Capacitor Ceramic 82pF 50WV SL . . . . .                   |            |
| C231, 250   | Capacitor Mica 100pF 50WV . . . . .                        | 0230659004 |
| C249  | Capacitor Mica 120pF 50WV . . . . .                        | 0230829001 |
| C261, 262, 266  | Capacitor Mica 180pF 50WV . . . . .                        | 0230659003 |
| C264  | Capacitor Mica 270pF 50WV . . . . .                        | 0230659002 |
| C204  | Capacitor Mica 47pF 50WV . . . . .                         | 0230659006 |
| C202  | Capacitor Mica 56pF 50WV . . . . .                         | 0230659005 |
| C246  | Capacitor Mica 68pF 50WV . . . . .                         | 0230829002 |
| T201  | Choke Trans Former EI-19 . . . . .                         | 0420419001 |
| CH201   | Trans Former OPT . . . . .                                 | 0610599001 |
| RFC203  | Choke Coil 25 $\mu$ H Mold Type . . . . .                  | 0470129001 |
| RFC204  | Choke Coil 0.45 $\mu$ H Mold Type . . . . .                | 0470129002 |
| RFC209  | Coil RF Choke 10 $\mu$ H Core . . . . .                    | 0470129003 |
| RFC205  | Coil RF Choke 1 $\mu$ H Bobbin . . . . .                   | 0411349001 |

| REFERENCE   | PARTS NAME & DESCRIPTION                           | DYNASCAN PART NO. |
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| RFC201, 202 | Coil RF Choke 22 $\mu$ H Bobbin . . . . .          | 0411349002        |
| RFC101      | Choke Coil 4 $\mu$ H Bobbin Type . . . . .         | 0470129004        |
| RFC206      | Coil RF Choke 0.5 $\mu$ H Spring . . . . .         | 0411349008        |
| L101        | 27MHz RX ANT (340005B) . . . . .                   | 0460399002        |
| L202        | 27MHz RF AMP-A (340012A) . . . . .                 | 0460399008        |
| L203        | Coil AM AMP 10m/m 27MHz (340013) . . . . .         | 0460399009        |
| L204        | 27MHz TX RF PRE AMP (340014A) . . . . .            | 0470029008        |
| L205        | 27MHz RF AMP-E (340015) . . . . .                  | 0460399011        |
| RFC207, 208 | Coil AM TX ANT 27MHz A (340016B) . . . . .         | 0460399012        |
| L206        | Coil AM TX ANT 27MHz B (340017B) . . . . .         | 0460399013        |
| L207        | Coil AM IFT 27MHz TX ANT Tuning-C (340018) .       | 0460399014        |
| L201        | VCO OSC (340035) . . . . .                         | 0460399015        |
| L102        | 27MHz RF AMP (RX) (340112) . . . . .               | 0470029010        |
| L103        | IFT 10.6MHz RF 1ST Mixer (RX) (340113) . . . .     | 0470029011        |
| L104        | IFT 455KHz-A (340114) . . . . .                    | 0470029012        |
| L105        | IFT 455KHz-B (340115) . . . . .                    | 0470027013        |
|             | P.C.B Main 140x108x1.6T . . . . .                  |                   |
|             | P.C.B LED 68x38x1.6T . . . . .                     |                   |
|             | MIC Ass'y . . . . .                                | 5610029001        |
|             | Securing Screw M6 (P=1)x9 . . . . .                | 6341669001        |
|             | (+) Machine Screw (F.H) M2.6x5 ZN-Plat . . . . .   |                   |
|             | (+) Machine Screw (B.H) M3x8 ZN-Plat . . . . .     |                   |
|             | (+) Tapping Screw (B.H) 3x6-2S ZN-Plat . . . . .   |                   |
|             | (+) Tapping Screw (B.H) 3x8-2S BLK . . . . .       |                   |
|             | (+) Tapping Screw (R.H) 2.6x6-1S ZN-Plat . . . . . |                   |
|             | (+) Tapping Screw (R.H) 2.6x8-1S ZN-Plat . . . . . |                   |
|             | (+) Tapping Screw (R.H) 4x8-2S ZN-Plat . . . . .   |                   |
|             | (+) Tapping Screw (T.H) 5x12-1S ZN-Plat . . . . .  |                   |
|             | (+) Tap Tite Screw (B.H) 3x6 BLK . . . . .         |                   |
|             | (+) Wood Screw (R+F.H) 2.7x16-1S NI-Plat . . . . . |                   |
|             | (+) Wood Screw (R+F.H) 2.7x18-1S NI-Plat . . . . . |                   |
|             | Nut SS41 M3-1S ZN Plating . . . . .                |                   |
|             | Washer Rubber 7x1.5T BLK . . . . .                 | 3811059001        |
|             | Square Washer                                      |                   |
|             | SPC ZN Plating 10x7x0.5T x3 $\phi$ . . . . .       |                   |
|             | Spring Washer M3 ZN Plating . . . . .              |                   |
|             | Lock Washer B Type ZN Plating M4 . . . . .         |                   |
|             | Lock Washer B Type M5 ZN Plating . . . . .         |                   |

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| Rivet (Half Head) ZN 2&x3M/M . . . . .            |            |
| Main Body SPC 48x405x1T . . . . .                 |            |
| Cover (Upper) SPC 172x150x0.8T BLK . . . . .      |            |
| Cover (Bottom) SPC 172x150x0.8T BLK . . . . .     |            |
| Cover (MIC, Upper) ABS 17G BLK . . . . .          |            |
| Cover (MIC Bottom) ABS 13G BLK . . . . .          |            |
| Bracket (MIC MTG) SPC 35x55x1T . . . . .          |            |
| Bracket (Set) SPC 30x235x1.5T . . . . .           | 2501129001 |
| Holder (MIC) ABS 2G BLK . . . . .                 |            |
| Holder (Speaker) SPC 25x25x1T . . . . .           |            |
| Holder (ANT MTG) SPCC 32x35x0.5T NI-P . . . . .   |            |
| Lever (MIC) ABS 3.2G BLK . . . . .                |            |
| Stopper (Cord Wire) SPC 12x25x1T . . . . .        |            |
| Heat Sink (IC MTG) ALP3 65x20x2T . . . . .        |            |
| Heat Sink (TRMTG) ALP 12x30x0.8T . . . . .        |            |
| Overlay ALP3 116x46x0.4T . . . . .                |            |
| Name Plate (Cobra 19xS) ALP3 32x45x0.5T . . . . . | 6001169001 |
| Back Plate ALP3 . . . . .                         |            |
| Name Plate (MIC) ALP3 30x8x0.3T . . . . .         |            |
| Escutcheon ABS CR-Plat . . . . .                  | 3804719003 |
| Lens Acryl 27x19x2T (RED) . . . . .               |            |
| Knob (Channel) ABS 3G CR . . . . .                | 7512099001 |
| Knob (Control) ABS Dot-Paint CR-Plating . . . . . | 7512349003 |
| Cap (MIC) PE 3G . . . . .                         |            |
| Grill (MIC) ABS 8.5G BLK . . . . .                |            |
| Bushing (TR2078) . . . . .                        |            |
| DIN Plug (5P) . . . . .                           |            |
| Earphone Jack HSJ 0615-01-010 . . . . .           |            |
| Molex Power Cord Ass'y                            |            |
| Plug & Receptacle . . . . .                       | 4280319001 |
| Molex Plug Ass'y                                  |            |
| TER (M), CONN (F), WIRE (6CM) . . . . .           |            |
| Molex Connector (Female) 5025-03P . . . . .       |            |
| Molex Terminal (Male) 5006T . . . . .             |            |
| Molex Power Cord Wire                             |            |
| 156cm (Plug 6cm Receptacle 150cm) . . . . .       |            |
| Molex Receptacle Ass'y                            |            |
| TER (F), F, F-H, CONN (M), Wire (150) . . . . .   |            |
| Molex Connector (Male) 5025-03R1 . . . . .        |            |
| Fuse Holder                                       |            |
| Fuse 250V 2A . . . . .                            | 1912513002 |
| Molex Terminal (Female) 5005T . . . . .           |            |
| Molex Power Cord Wire                             |            |

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| 156cm (Plug 6cm Recptl 150cm)            |            |
| Level Meter WHT                          |            |
| 36D or H-13 (W/Lamp)                     | 3201219001 |
| ANT Receptacle (W/Nut Washer)            |            |
| Kyeong Seong M Type 8112                 |            |
| Speaker 2&1/2" 8 ohm 0.25W               | 5800509001 |
| Cartridge 30 dia x 12 FD802              |            |
| Rotary SW (40CH W/LED Cord)              |            |
| GPS-0296 Shaft Length 25mm               | 0832929001 |
| Push S.W P-M1 Block                      | 0880719001 |
| Slide SW (2P-2C PCB Type)                |            |
| KSA-2259D BLK-Plat                       | 0841209001 |
| MIC 5 PIN, DIN Socket                    | 7631699001 |
| Curled Cord                              |            |
| Cord Wire Clamp Nylon                    |            |
| Rubber Bushing Rubber                    |            |
| Rubber Sponge Rubber 28&x5T              |            |
| Mica                                     |            |
| Insulation Plate Fiber 46x39x0.3T        | 4803529001 |
| Strip Felt Felt 110x6x0.3T               |            |
| Felt (MIC) Felt 23&x0.3T                 |            |
| Insulation Ring 5 Dia x 2m/m             |            |
| Snow Box                                 |            |
| Inner Box (Cobra 19xS)                   |            |
| PAD SW1 206x218x80                       |            |
| Out Box (Cobra 19xS)                     |            |
| PAD DW1 226(H) x 505(W) x 234(D)         |            |
| MIC Box SW1 211(W) x 73(D) x 50(H)       |            |
| Poly Bag (Set) Vinyl                     |            |
| Poly Bag (Manual) Vinyl 255x185x0.03T    |            |
| Poly Bag (Accessory) Vinyl 65x85x0.03T   |            |
| Poly Bag (MIC) Vinyl 125x205x0.03T       |            |
| Instruction Manual (Cobra 19xS)          |            |
| Service Station Book Blue                |            |
| Schematic Diagram                        | 4992399001 |
| FCC Form 505                             | 4920419001 |
| Warning Card Nega Only                   |            |
| Temporary Permit                         | 4920469001 |
| C.B Regulations                          | 4920479001 |
| QC Label                                 |            |
| Wire Strip 0.5 Dia                       |            |
| Solder Bar 60:40                         |            |
| Solder Rosin Core Wire 60:40 0.04"-0.05" |            |
| Flux Rosin                               |            |
| Thinner for Flux                         |            |
| Stabilizer Material                      |            |
| Bond #201                                |            |
| Silicon Grease YG-6111 or XG-6111        |            |
| Compound                                 |            |
| WAX Micro                                |            |
| WAX Poly                                 |            |
| Screw Locking Paint AGP                  |            |
| Tape Scotch 20m/m (0.020x25M)            |            |
| Tape Packing P.V.C (0.05x25M)            |            |
| Tube HIS 11m/m                           |            |
| Tube Empire 1&                           |            |
| Wire TIE Vinyl 1.2 Dia                   |            |