



**SCHEMATIC  
DIAGRAM**

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**COBRA 132XLR**

Note  
 All resistors are in ohms.  
 All mylar film capacitors indicated as 0.033, etc. are in  $\mu$ F.  
 All ceramic capacitors indicated as 4700, etc. are in PF.

# COBRA 132XLR PARTS LIST

SCHEMATIC SYMBOL	DESCRIPTION	DYNASCAN PART NO.
<b>RESISTORS, CONTROLS AND THERMISTORS</b>		
R43	Carbon, 1 ohm 1/4W	002-104-5-010
R173, 174	Mold, 1 ohm 1/8W	013-027-9-001
R92A	Metallic Film, 4.7 ohm 2W	013-007-9-001
R92B	Metallic Film, 6.8 ohm 2W	013-027-9-002
R92C	Metallic Film, 3.3 ohm 2W	013-027-9-003
R92D	Metallic Film, 8.2 ohm 2W	013-027-9-004
R92E	Metallic Film, 10 ohm 2W	013-027-9-005
R160	Metallic Film, 16 ohm 3W	006-005-5-160
R88	Metallic Film, 82 ohm 1W	013-027-9-006
R4, 5	Carbon, 100 ohm 1/8W	002-108-5-101
R315	Solid, 22 ohm 1/8W	002-108-5-220
R178	Solid, 68 ohm 1/4W	002-104-5-680
R85	Solid, 120 ohm 1/2W	002-102-5-121
R142, 144	Solid, 470 ohm 1/4W	002-104-5-471
R7	Solid, 1000 ohm 1/2W	001-102-5-102
R379~392	Carbon, 1000 ohm 1/8W	002-108-5-102
R96, 343	Solid, 4700 ohm 1/8W	002-108-5-472
R136	Solid, 10 Kohm 1/8W	002-108-5-103
R172	Solid, 47 Kohm 1/8W	002-108-5-473
R373	Solid, 150 Kohm 1/8W	002-108-5-154
R16	Solid, 470 Kohm 1/8W	002-108-5-474
R356, 375	Carbon, 15 Mohm 1/4W	001-104-5-150
R372	Block, 100 Kohm x 8 1/4W	013-027-9-007
R46	Thermister, D33A	004-099-9-002
R86, 89	Semi Fixed 100 ohm	008-206-9-004
R322	Semi Fixed, 1 Kohm	008-206-9-010
R72	Semi Fixed, 5 Kohm	008-206-9-005
R9, 10, 12, 49, 134, 317, R130	Semi Fixed, 10 Kohm	008-206-9-008
R324, 328	Semi Fixed, 20 Kohm	008-206-9-009
R93	Semi Fixed, 30 Kohm	008-206-9-002
R8, R90	Semi Fixed, 100 Kohm	002-104-5-104
R51, 326	Variable, 20 Kohm-5 Kohm	008-300-9-001
R120, 143	Variable, 20 Kohm	008-300-9-002
	Variable, 50 Kohm	008-300-9-003

## CAPACITORS AND TRIMMERS

C18, 63, 64, 307	Ceramic, 1P	020-097-9-009
C62, 305, 331	Ceramic, 2P	020-097-9-004
C58, 44	Ceramic, 3P	020-097-9-014
C45,	Ceramic, 5P	020-097-9-007
C9, 86, 311, 322, 329, 340	Ceramic, 10P	020-097-9-010
C57	Ceramic, N470 10P	020-170-9-001
C303, 308	Ceramic, N750 10P	020-076-9-003
C302	Ceramic, N220 15P	020-157-9-001
C56, 82	Ceramic Trimmer, 20P	028-026-9-001
C13, 39, 328, 351	Ceramic, 22P	020-097-9-006
C304	Ceramic, N750 22P	020-173-9-007
C12, 83	Ceramic, N220 22P	020-157-9-002
C14	Ceramic, 33P	020-157-9-003
C309	Ceramic, N750 33P	020-174-9-002
C324	Ceramic, SL 47P	020-097-9-011

## CAPACITORS AND TRIMMERS (Continued)

C30, 98, 109	Electrolytic, 33μF/16V	022-074-9-005
C123, 343	Electrolytic, 100μF/10V	022-074-9-010
C341	Electrolytic, 220μF/10V	022-076-9-010
C113	Electrolytic, 1000μF/25V	022-150-9-002
C124, 125	Electrolytic, 1000μF/16V	022-150-9-003

## COILS, CHOKES AND TRANSFORMERS

T1	RF Transformer, 25099	066-028-9-001
T2, 3, 10, 11, 12	RF Transformer, L1641	066-013-9-002
T4, 5	RF Transformer, 25091	066-028-9-002
T6	RF Transformer, L1839	066-029-9-001
T7	RF Transformer, L1786	066-015-9-001
T8	RF Transformer, L1787	066-015-9-002
T9	RF Transformer, L1785	066-015-9-003
T13	AF Transformer	061-029-9-001
T301, 302	RF Transformer, 25093	066-028-9-003
T303	RF Transformer, 25094	066-028-9-004
L1, 2	RF Coil, L1904-G1	044-025-9-005
L3	RF Coil, 25104	041-096-9-001
L4	RF Choke Coil, 332	042-022-9-002
L5	RF Coil, 25100	041-096-9-002
L6, 8	RF Choke Coil, 25101	042-027-9-001
L7	RF Coil, 25105	041-096-9-003
L9	RF Choke Coil, L1845	042-009-9-003
L10	AF Choke Coil	042-022-9-003
L11	RF Coil, L1904-G2	044-025-9-005
L13, 14	Choke Coil, L111	042-027-9-002
L15, 16	Toroidal Coil	042-027-9-003
L301	RF Coil, 25095	041-096-9-004
L302	RF Coil, 25096	041-096-9-005
L303	RF Coil, 25097	041-096-9-006
L304	RF Coil, 25090	041-084-9-003

## DIODES, TRANSISTORS AND INTEGRATED CIRCUIT

IC1	SVI0052 (IC)	307-107-9-002
IC2	TA7064P (IC)	307-107-9-001
IC3	TA7205P (IC)	307-107-9-003
IC301, 303	TC5081P (IC)	307-107-9-004
IC302	TC5082P (IC)	307-107-9-005
IC304	TC5080P (IC)	307-107-9-006
CD1, 2, 8, 13, 14	1N60 (Diode)	150-001-9-005
CD3~7, 9~11, 15, 19, 25~31, 37, 39~46, 48, 50A, 50B 51~54, 56~58, 62, 63, 304, 305, 307, 310, 312 315	1S1588 (Diode)	151-051-9-001
CD20~23	1N60FM-PAIR (Diode)	157-007-9-001
CD24, 34~36, 49, 60, 61	1S1885 (Diode)	151-030-9-005
CD47, 303, 308, 309	0226.2A (Diode)	152-047-9-001
CD306	1S1658 (Diode)	151-030-9-003
CD316, 317	TLR312 (LED)	158-013-9-002

SCHEMATIC SYMBOL	DESCRIPTION	DYNASCAN PART NO.
<b>CAPACITORS AND TRIMMERS (Continued)</b>		
C318, 320, 321, 335, 336	Ceramic, RH 47P	020-088-9-002
C5, 69, 76, 85, 105, 110, 141, 142	Ceramic, 100P	020-097-9-004
C310	Ceramic, N750 100P	020-173-9-003
C84	Ceramic, 150P	020-097-9-002
C326, 334	Ceramic, YR 220P	020-097-9-009
C6, 8	Ceramic, 220P	020-097-9-009
C7, 72, 79	Ceramic, 330P	020-097-9-013
C2, 3, 21, 59, 65, 119, 182, 349, 366, 367, 368	Ceramic, YR 470P	020-097-9-022
C1, 4, 10, 15~17, 19, 20, 50, 54, 88, 151, 325, 332, 363	Ceramic, YR 2200P	020-088-9-007
C22, 24, 27~29, 32, 37, 51, 55, 60, 61, 66~68, 70, 73, 75, 78, 81, 87, 91, 96, 97, 99, 103, 112, 116, 120, 126, 131~140, 152~154, 158~161, 163, 168~169, 173~175, 178~181, 185~187, 189, 196, 197, 315, 316, 319, 323, 330, 333, 359, 360	Ceramic, YR 4700P	020-088-9-008
C167	Ceramic, YR 10000P	020-088-9-009
C346	Mylar Film, 1000pF ± 10%/50V	025-112-9-002
C25, 26, 31, 34, 48, 49, 52, 100, 101, 118, 346	Mylar Film, 0.01μF/50V	025-060-9-001
C102	Mylar Film, 0.022μF/50V	025-071-9-002
C11, 71, 74, 89, 121, 157, 166, 337, 344, 357, 364	Mylar Film, 0.033μF/50V	025-060-9-003
C327, 345	Mylar Film, 0.1μF/50V	025-060-9-004
C40, 42, 106, 107, 111, 115, 155, (327) Mylar	BC, 0.1μF/25V	033-017-9-001
C365	Tantalum, 0.22μF	027-028-9-001
C46, 90, 92, 114, 118, 127, 128, 199, 200	Electrolytic, 1μF/50V	022-076-9-001
C104, 339x2	Tantalum, 3.3μF	027-020-9-001
C33, 35, 93, C36, 38, 47, 53, 77, 95, 108, 117, 122, 130, 165, 301, 306, 338, 361	Electrolytic, 3.3μF/50V	027-076-9-002
	Electrolytic, 10μF/16V	022-076-9-003
<b>DIODES, TRANSISTORS AND INTEGRATED CIRCUIT (Continued)</b>		
Q 7, 8, 9A, 9B, 10, 16, 17, 18, 19, 23, 28, 304, 307, 308, 310~317, 319	2SC372-Y (Transistor)	176-042-9-003
Q2	3SK40 (Transistor)	182-049-9-001
Q3	2SC784-R (Transistor)	176-056-9-003
Q4, 5	2SC380-O (Transistor)	176-082-9-001
Q6	2SC735-O (Transistor)	176-031-9-001
Q11	2SC1166-Y (Transistor)	176-056-9-005
Q12, 14	2SC1173 (Transistor)	172-026-9-001
Q13	2SC1678 (Transistor)	172-028-9-001
Q15	2SC1307 (Transistor)	176-044-9-001
Q20	2SC732-BL (Transistor)	176-056-9-006
Q21, 22, 306	2SA495-O (Transistor)	177-019-9-003
Q24, 25	2SA950-Y (Transistor)	177-032-9-001
Q27	2SB435-Y (Transistor)	175-010-9-001
Q301, 302, 303	2SK19-GR (Transistor)	182-029-9-001
Q305, 309	2SC387A (Transistor)	176-044-9-003
Q318	2SD235-O (Transistor)	172-031-9-003
<b>CRYSTALS</b>		
X1	Crystal (7.8025 MHz)	133-017-9-001
X301	Crystal (17.05625 MHz)	133-017-9-002
X302	Crystal (5.12 MHz)	133-012-9-001
<b>SWITCHES</b>		
S1, 3, 4	Lever Switch (SWR, ANL-NB, MODE)	080-007-9-002
S2, 5, 302	Lever Switch (% MOD, PA, DIM)	080-007-9-001
S301	Rotary Switch (CH)	083-213-9-001
SP1	Speaker	580-012-9-001
<b>MISCELLANEOUS</b>		
J1	Antenna Jack	772-002-9-001
J2	Microphone Jack	773-057-9-001
J3, 4	Jack	773-084-9-001
K1	Relay	441-010-9-001
K2	Relay	441-020-9-001
M1	Meter	320-036-9-001
MK1	Microphone	562-003-9-001
U1	Crystal Filter	143-007-9-001
W1	DC Power Cord	426-019-9-001
F1	Fuse, 3A	191-251-9-003
	KNOB (VOL, SQ, DYNAMIKE, VOICE-L)	751-144-9-002
	KNOB (RF)	751-144-9-004
	KNOB (SWR)	751-144-9-003

NOTE: Standard value resistors and capacitors are not listed, values may be obtained from schematic diagram.

Specify serial number when ordering replacement parts.