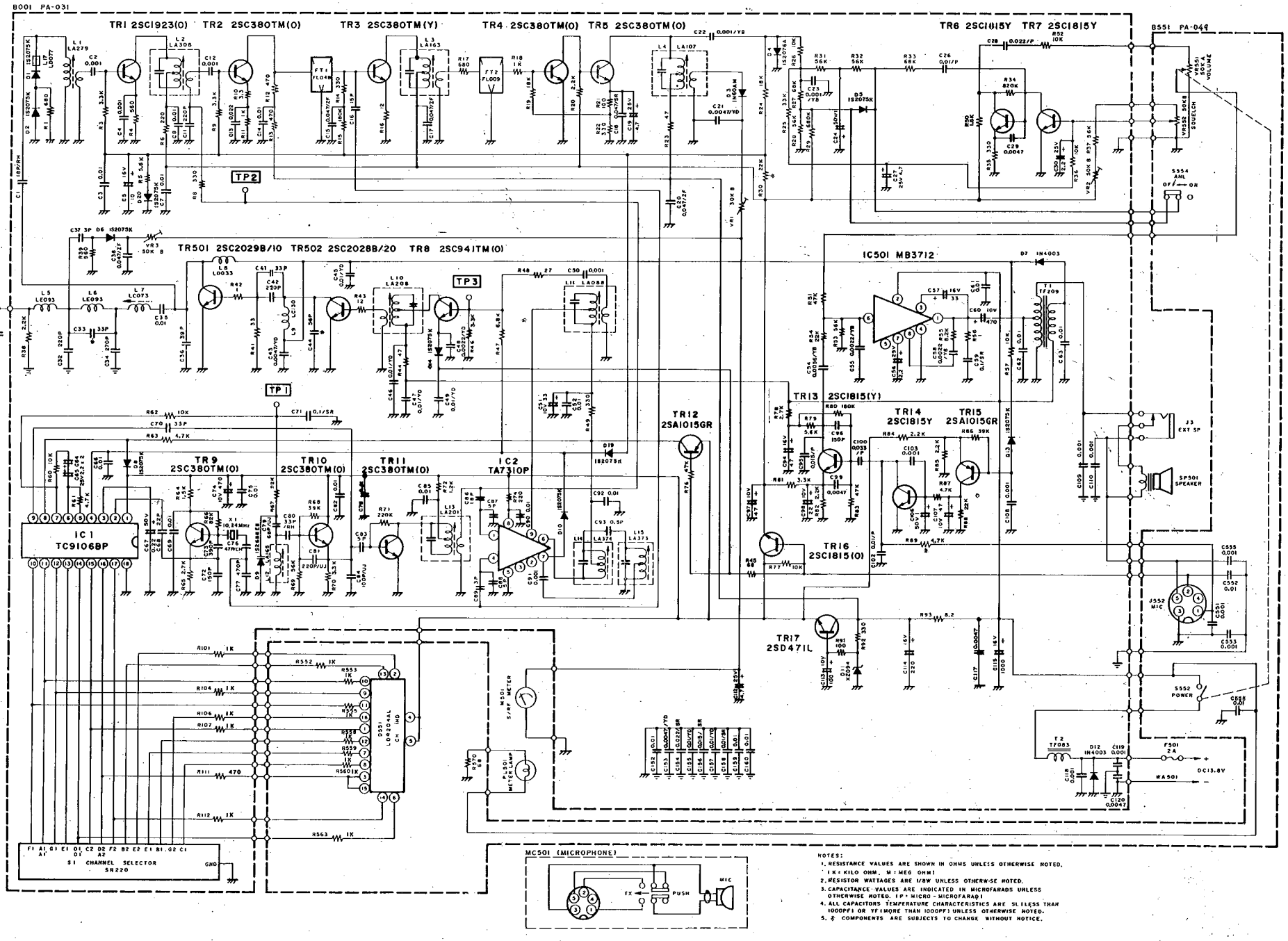
CIRCUIT DIAGRAM FOR COBRA 18LTD



BILL OF MATERIAL FOR COBRA 18LTD

CIRCUIT SYMBOL	DESCRIPTION		DYNASCAN PART NO.
	SEMICONDUCTORS		
IC-002	Integrated Circuit,	TA7310P	PL-307-133-9-004
IC-001	Integrated Circuit,	TC9106BP	PL-308-303-9-001
IC-501	Integrated Circuit,	MB3712	PL-307-151-9-001
TR-012,015	Transistor,	2SA1015-GR	PL-177-057-9-001
TR-002,004,005,009,010, 011	Transistor,	2SC380TM-O	PL-176-133-9-001
TR-003	Transistor,	2SC380TM-Y	PL-176-133-9-002
TR-008	Transistor,	2SC941TM-O	PL-176-089-9-004
TR-016	Transistor,	2SC1815-O	PL-176-085-9-002
TR-006,007,013,014	Transistor,	2SC1815-Y	PL-176-089-9-003
TR-001	Transistor,	2SC1923-O	PL-176-085-9-001
TR-502	Transistor,	2SC2028-B/20	PL-172-038-9-001
TR-501	Transistor,	2SC2029-B/10	PLr-172-038-9-002
TR-017	Transistor,	2SD471-L	PL-176-117-9-002
D-003	Diode,	1N60 AM	PL-150-014-9-001
D-009	Diode, Vari-Cap,	1S2688EB	PL-154-006-9-001
D-011	Diode,	XZ-094	PL-152-121-9-001
D-001,002,005,006,008, 010,013,014,019,020	Diode,	1S2075K	PL-151-028-9-001
D-004	Diode,	1S2076A	PL-151-101-9-001
D-007,012	Diode,	1N4003	PL-151-083-9-001
D-551	Diode,	LDR204AL	PL-238-023-9-001
	INDUCTORS		
L-011	Coil,	LA-088	PL-066-019-9-002
L-004	Coil,	LA-107	PL-060-022-9-003
L-003	Coil,	LA-163	PL-060-022-9-001
L-012	Coil,	LA-165	PL-044-046-9-001
L-013	Coil,	LA-201	PL-046-024-9-002
L-010	Coil,	LA-208	PL-060-029-9-004
L-001	Coil,	LA-279	PL-046-027-9-001
L-002	Coil,	LA-308	PL-047-004-9-001
L-015	Coil,	LA-373	PL-047-004-9-002
L-014	Coil,	LA-374	PL-047-004-9-003
L-007	Coil,	LC-073	PL-044-041-9-001
L-009	Coil,	LC-130	PL-041-106-9-001
L-008	Coil,	LD-033	PL-041-083-9-003
L-005,006	Coil,	LE-093	PL-041-115-9-002
L-017	Coil,	LD-077	PL-763-084-9-001
	SEMI-FIXED & VARIABLE RESISTORS		
VR-001	Resistor, Semi-fixed,	RT-530 30K ohm B	
VR-002,003	Resistor, Semi-fixed,	RT-530 50K ohm B	
VR-551	Resistor, Variable,	RV-495 50K ohm A	
VR-552	Resistor, Variable,	RV-501	

CIRCUIT SYMBOL	DESCRIPTION		DYNASCAN PART NO.
	FIXED RESISTORS		
	NOTE: Resistor tolerance: J = ±5% K = ±10%		
R-104,552,553,555,558	Resistor, Carbon, Axial Lead,	1K ohm 1/8W J	
R-062	Resistor, Carbon, Axial Lead,	10K ohm 1/8W J	
R-043	Resistor, Carbon, Axial Lead,	12 ohm 1/8W J	
R-038	Resistor, Carbon, Axial Lead,	2.2K ohm 1/8W J	
R-078	Resistor, Carbon, Axial Lead,	2.7K ohm 1/8W J	
R-049	Resistor, Carbon, Axial Lead,	330 ohm 1/8W J	
R-046	Resistor, Carbon, Axial Lead,	3.3K ohm 1/8W J	
R-089	Resistor, Carbon, Axial Lead,	4.7K ohm 1/8W J	
R-029	Resistor, Carbon, Axial Lead,	470K ohm 1/8W J	
R-570	Resistor, Carbon, Axial Lead,	68 ohm 1/8W J	
R-008	Resistor, Carbon, Axial Lead,	330 ohm 1/8W J	
R-021,091	Resistor, Carbon, Formed VERT,	100 ohm 1/8W J	
R-011,018	Resistor, Carbon, Formed VERT,	1K ohm 1/8W J	
R-101,106,107,112,559, 560,563	Resistor, Carbon, Formed VERT,	1K ohm 1/8W J	
R-026,036,052,057,060	Resistor, Carbon, Formed VERT,	10K ohm 1/8W J	
R-042,056	Resistor, Carbon, Formed VERT,	1 ohm 1/8W J	
R-016	Resistor, Carbon, Formed VERT,	12 ohm 1/8W J	
R-072	Resistor, Carbon, Formed VERT,	1.2K ohm 1/8W J	
R-050,064	Resistor, Carbon, Formed VERT,	1.5K ohm 1/8W J	
R-019,024	Resistor, Carbon, Formed VERT,	18K ohm 1/8W J	
R-015,080	Resistor, Carbon, Formed VERT,	180K ohm 1/8W J	
R-006,074	Resistor, Carbon, Formed VERT,	220 ohm 1/8W J	
R-020,077	Resistor, Carbon, Formed VERT,	2.2K ohm 1/8W J	
R-082,084,085	Resistor, Carbon, Formed VERT,	2.2K ohm 1/8W J	
R-030,054,067,088	Resistor, Carbon, Formed VERT,	22K ohm 1/8W J	
R-071	Resistor, Carbon, Formed VERT,	220K ohm 1/8W J	
R-048	Resistor, Carbon, Formed VERT,	27 ohm 1/8W J	
R-065	Resistor, Carbon, Formed VERT,	2.7K ohm 1/8W J	
R-041	Resistor, Carbon, Formed VERT,	33 ohm 1/8W J	
R-014,022,035	Resistor, Carbon, Formed VERT,	330 ohm 1/8W J	
R-003,009,070,081	Resistor, Carbon, Formed VERT,	3.3K ohm 1/8W J	
R-025	Resistor, Carbon, Formed VERT,	33K ohm 1/8W J	
R-010	Resistor, Carbon, Formed VERT,	3.3 ohm 1/8W J	
R-068,086	Resistor, Carbon, Formed VERT,	39K ohm 1/8W J	
R-023,044	Resistor, Carbon, Formed VERT,	47 ohm 1/8W J	
R-012,013,111	Resistor, Carbon, Formed VERT,	470 ohm 1/8W J	
R-061,063,087	Resistor, Carbon, Formed VERT,	4.7K ohm 1/8W J	
R-051,076,083	Resistor, Carbon, Formed VERT,	47K ohm 1/8W J	
R-004,039,092	Resistor, Carbon, Formed VERT,	560 ohm 1/8W J	
R-005,079	Resistor, Carbon, Formed VERT,	5.6K ohm 1/8W J	
R-028,031,032,037,053, 069	Resistor, Carbon, Formed VERT,	56K ohm 1/8W J	
R-045	Resistor, Carbon, Formed VERT,	68 ohm 1/8W J	
R-001,017	Resistor, Carbon, Formed VERT,	680 ohm 1/8W J	
R-047	Resistor, Carbon, Formed VERT,	6.8K ohm 1/8W J	
R-027,033	Resistor, Carbon, Formed VERT,	68K ohm 1/8W J	
R-055	Resistor, Carbon, Formed VERT,	8.2K ohm 1/8W J	
R-066	Resistor, Carbon, Formed VERT,	82K ohm 1/8W J	
R-034	Resistor, Carbon, Formed VERT,	820K ohm 1/8W J	
R-093	Resistor, Carbon, Formed VERT,	8.2 ohm 1/8W J	

CIRCUIT SYMBOL	DESCRIPTION		DYNASCAN PART NO.
	CAPACITORS		
	NOTE: The first code indicates tolerance of capacitance: C = ±0.25pF, D = ±0.5pF, F = ±1pF, G = ±2%, J = ±5%, K = ±10%, M = ±20%, Z = +70% -20% The second code indicates variation of capacitance with temperature: YA = ±5%, YB = ±10%, YD = +20 -30%, YE = +20 -50%, YF = +30 -70%, (-25~ +85°C), ZF = +30 -80% (-10 ~ +70°C), CH = 0±60ppm/°C, RH = -220ppm/°C±60ppm/°C, CJ = 0±120ppm/°C, RJ = -220ppm/°C±120ppm/°C, TH = -470ppm/°C±60ppm/°C, UJ = -750ppm/°C±120ppm/°C, SL = +350ppm/°C ~ -1000ppm/°C		
C-067	Capacitor, Electrolytic,	0.22μF 50V M C-061	
C-056	Capacitor, Electrolytic(SP),	2.2μF 25V M C-086	
C-113	Capacitor, Electrolytic,	100μF 10V	
C-098	Capacitor, Electrolytic,	22μF 10V	
C-051	Capacitor, Electrolytic,	33μF 10V	
C-097,107	Capacitor, Electrolytic,	47μF 10V	
C-060,074	Capacitor, Electrolytic,	470μF 10V	
C-005	Capacitor, Electrolytic,	10μF 16V	
C-115	Capacitor, Electrolytic,	1000μF 16V	
C-114	Capacitor, Electrolytic,	220μF 16V	
C-057	Capacitor, Electrolytic,	33μF 16V	
C-094	Capacitor, Electrolytic,	47μF 16V	
C-030,064,065	Capacitor, Electrolytic,	2.2μF 25V	
C-019,027,112	Capacitor, Electrolytic,	4.7μF 25V	
C-024,106	Capacitor, Electrolytic,	1μF 50V	
C-158	Capacitor, Semi-conductor(SR),	0.01μF 25V M	
C-059,071	Capacitor, Semi-conductor(SR),	0.1μF 25V M	
C-156	Capacitor, Semi-conductor(SR),	0.015μF 25V M	
C-154	Capacitor, Semi-conductor(SR),	0.022μF 25V M	
C-018	Capacitor, Semi-conductor(SR),	0.047μF 25V M	
C-076	Capacitor, Ceramic,	47pF 50V J CH	
C-016	Capacitor, Ceramic,	15pF 50V K SL	
C-072,096	Capacitor, Ceramic,	150pF 50V K SL	
C-086	Capacitor, Ceramic,	18pF 50V K SL	
C-068	Capacitor, Ceramic,	22pF 50V K SL	
C-011,032,042	Capacitor, Ceramic,	220pF 50V K SL	
C-034	Capacitor, Ceramic,	270pF 50V K SL	
C-037,089	Capacitor, Ceramic,	3pF 50V C SL	
C-033,041,070	Capacitor, Ceramic,	33pF 50V K SL	
C-036	Capacitor, Ceramic,	39pF 50V K SL	
C-073	Capacitor, Ceramic,	390pF 50V K SL	
C-077	Capacitor, Ceramic,	470pF 50V K SL	
C-003	Capacitor, Ceramic,	0.5pF 50V C SL	
C-083,087,088	Capacitor, Ceramic,	5pF 50V C SL	
C-044	Capacitor, Ceramic,	56pF 50V K SL	
C-501	Capacitor, Ceramic,	82pF 50V K SL	
C-001	Capacitor, Ceramic,	18pF 50V K RH	
C-080	Capacitor, Ceramic,	33pF 50V K RH	
C-084	Capacitor, Ceramic,	100pF 50V K UJ	
C-081	Capacitor, Ceramic,	220pF 50V K UJ	
C-079	Capacitor, Ceramic,	68pF 50V K UJ	
C-022,023	Capacitor, Ceramic,	0.001μF 50V K YP(B)	
C-055,058	Capacitor, Ceramic,	0.0022μF 50V K YP(B)	
C-054	Capacitor, Ceramic,	0.0056μF 50V K YP(B)	
C-015,017,020,038,123	Capacitor, Ceramic,	0.047μF 25V Z ZF	

CIRCUIT SYMBOL	DESCRIPTION		DYNASCAN PART NO.
	CAPACITORS (Continued)		
C-045,046,047,049,155, 157	Capacitor, Ceramic,	0.01μF 50V M YD	
C-048	Capacitor, Ceramic,	0.0022μF 50V M YD	
C-021,043,153	Capacitor, Ceramic,	0.0047μF 50V M YD	
C-002	Capacitor, Ceramic,	0.001μF 50V Z YF	
C-004,012,050,091,103, 108,109,110,118,119, 551,553,555	Capacitor, Ceramic,	0.001μF 50V Z YF	
C-003,007,008,014,035, 052,061,062,063,066, 069,078,082	Capacitor, Ceramic,	0.01μF 50V Z YF	
C-085,090,092,124,152, 159,160,552,556	Capacitor, Ceramic,	0.01μF 50V Z YF	
C-013	Capacitor, Ceramic,	0.022μF 50V Z YF	
C-029,099,117,120	Capacitor, Ceramic,	0.0047μF 50V Z YF	
C-026,102	Capacitor, Mylar,	0.01μF 50V K	
C-095	Capacitor, Mylar,	0.015μF 50V K	
C-028	Capacitor, Mylar,	0.022μF 50V K	
C-100	Capacitor, Mylar,	0.033μF 50V K	
	MISCELLANEOUS		
FT-002	Filter, Ceramic,	FL-009	PL-140-009-9-001
FT-001	Filter, Ceramic,	FL-048	PL-140-020-9-001
J-501	Jack,	JK-068	
J-003	Jack,	JK-089	
J-552	Jack,	JK-202	
MC-501	Microphone, Ass'y,	MK-251	PL-561-001-9-001
M-501	Meter,	MT-149	PL-320-116-9-001
B-001	PC Board, Main,	PA-031AD	
B-551	PC Board, Cont,	PA-049AA	
X-001	Crystal,	QX-074 10.240	PL-132-027-9-001
SP-501	Speaker,	SP-057	PL-580-031-9-001
S-001	Switch, Rotary,	SR-220	PL-083-288-9-001
S-554	Switch, Slide,	SW-348	PL-084-114-9-001
T-002	Transformer, AF Choke,	TF-083	PL-042-021-9-001
T-001	Transformer, Output,	TF-209	PL-061-052-9-001
WA-501	Cord, DC,	WZ-246 1500mm	PL-420-046-9-001
YI-501	Bushing, Transistor,	YD-019 B312D-11-A	
YI-502	Bushing, Transistor,	YD-019 B309D	
YI-503	Insulation Sheet,	YD-042	
YI-504	Insulation Sheet,	YD-043	
YI-505	Insulation Sheet,	YD-046	
JP-011,012,017,024	Jumper Wire,	YY-052 5.0mm	
JP-001,002,003,008,015, 019,020,031	Jumper Wire,	YY-052 7.5mm	
JP-006,007,013,014,021, 029,552	Jumper Wire,	YY-052 10.0mm	
JP-004,032,033,553	Jumper Wire,	YY-052 12.5mm	
JP-005,022,028,554	Jumper Wire,	YY-052 15.0mm	
JP-023,030	Jumper Wire,	YY-052 17.5mm	
JP-010,018	Jumper Wire,	YY-052 20.0mm	
W-002	Wire,	1.5 0.18 x 12 3-80-3 YEL	
W-005	Wire,	1.5 0.18 x 12 15-100-15 YEL	
W-003,004	Wire,	1.5 0.18 x 12 5-160-3 WHT	

CIRCUIT SYMBOL	DESCRIPTION		DYNASCAN PART NO.
	MISCELLANEOUS (Continued)		
W-001	Wire,	1.5 0.18 x 12 3-60-3 BLK	
	Panel, Front,	ABS CR	PL-255-220-9-001
	Holder, Jack,	ABS, Black	PL-250-071-9-001
	Knob, Channel,	ABS, CR	PL-751-171-9-001
	Knob,	ABS, CR	PL-751-244-9-001
	Mounting Bracket,	SPCC 1.6T ZMC	PL-250-072-9-001
	Case (Bottom),	Vinyl Top E-type	PL-271-143-9-001
	Case (Top),	Vinyl Top E-type	PL-271-144-9-001
	Chassis,	SPCC 1.0T ZMC	
	Holder, Meter,	SPCC ZMC	
	Hanger, Microphone,	SPCC 1.0T, NI	
	Nameplate, Front,	Alp 0.5T Silk	PL-600-099-9-001
	ID Plate, FCC,	Alp 0.5T Silk	
	Optical Filter, Display,	Channel, Acryl, 1.0T Purple	PL-380-305-9-001
	Holder, Led,	Rubber Black	
	Washer, Rubber,	**	
	Label, Warning, DC Cord,	Paper, Print	
	Label, Serial No.,	Paper, Print	
	Label, Serial No.,	Paper, Print	
	Optical Shielding Cloth,	Himelon, 0.3T, Black	
	Cushion,	Neoprene SP, 3.0T, Black	
	Cushion,	Neoprene SP, 3T, Black	
	Protection Cover, Front Panel,	**	
	Wool-coated Paper Wool Tack,	120L*10W*0.3T, Black	
	Insulation Plate,	PVC, 0.5T	
	Screw, Flat Hd +,	M3x5 NI	
	Screw, Bind Hd +,	M3x8 NI	
	Screw, Tapping Round Hd +,	D3.5x8 NI	
	Screw, Tapping Round Hd +,	D5x10 NI	
	Screw, Taptight Bind Hd +,	M3x6 NI	
	Hex Nut,	M3.0 NI	
	Nut, Flange,	M3 NI	
	Washer, Lock,	D3.5 NI	
	Washer, Star,	D5 NI	
	Screw, P Tight Bind Hd +,	D3x8 NI	
	Screw, P Tight Bind Hd +,	D3x10 NI	
	Spring Plate, Knob,	D6	
	Rivet, AL, ID Plate,	D3.2x3.2	
	Owner's Manual,	**	
	Warranty Card,	**	
	Service Station Card,	**	
	Schematic Diagram,	**	
	FCC Rules Part 95,	**	
	Display Box,	**	
	Shipping Carton Box,	**	
	Styrofoam Pad,	**	
	Protector,	**	N/A
	Wing Bolts,	M5x8 ZMC	
	Composit (Schematic Diagram/Parts List),		
	Vinyl Bag,	100x120x0.05T	
		120x280x0.05T	
		170x320x0.05T	
		320x370x580x0.07T	
		220x300x0.01T	

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