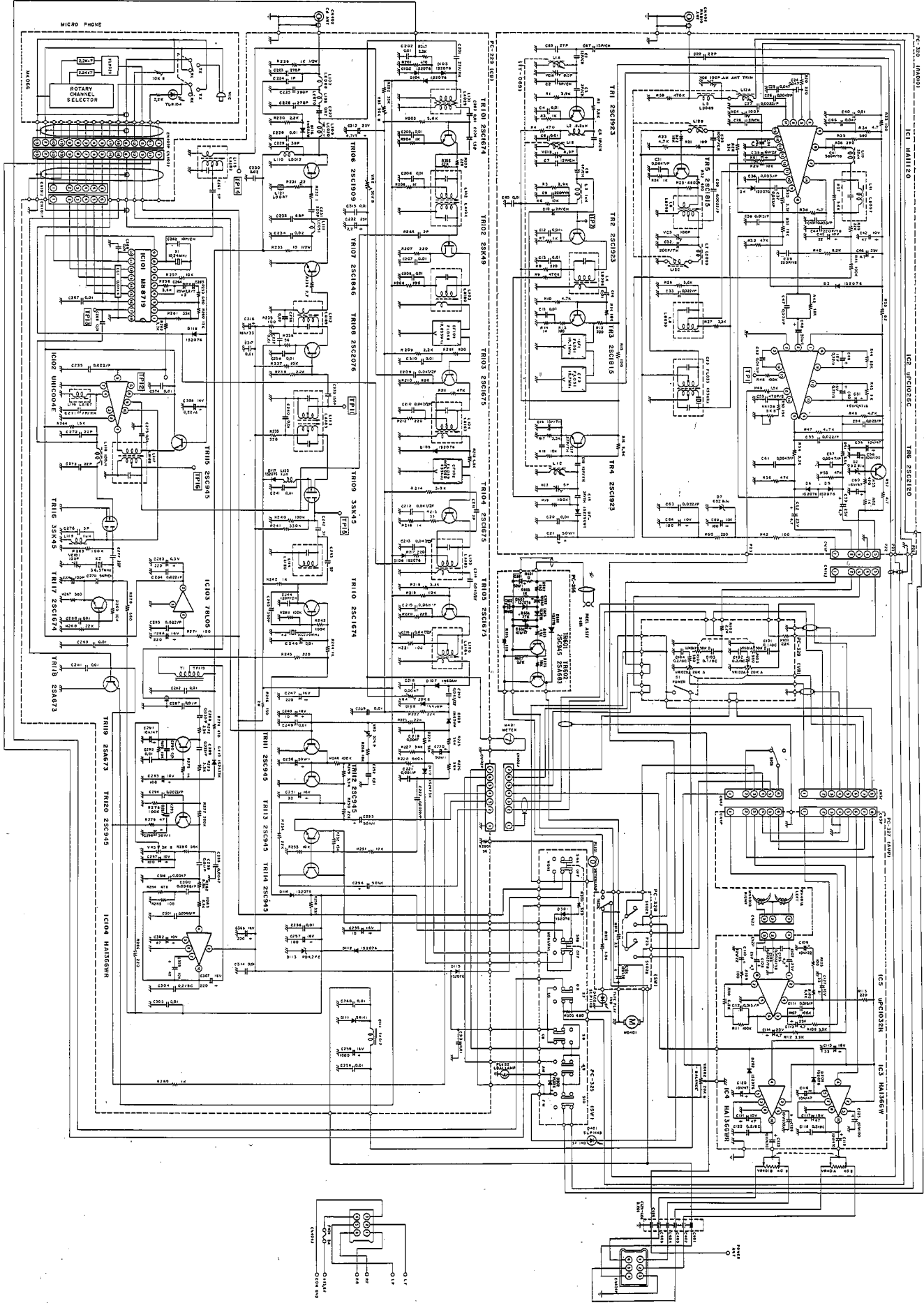


# CIRCUIT DIAGRAM FOR COBRA 50XLR



BILL OF MATERIAL FOR COBRA 50XL R

CIRCUIT SYMBOL	DESCRIPTION	DYNAMSCAN PART NO.
IC101	IC, TRANSISTORS & DIODES	
IC102	Integrated Circuit, UHC-004E	307-128-9-002
IC103	Integrated Circuit, UHC-004E	307-131-9-001
IC104	Integrated Circuit, NAW82/03A	307-113-9-003
IC105	Integrated Circuit, HVA1368 W	307-131-9-002
IC5	Integrated Circuit, HPC1032H	307-131-9-004
IC1	Integrated Circuit, HA11120-1	307-131-9-005
IC2	Integrated Circuit, HPC10286	307-131-9-006
TR-102	FET, 2SK49F	182-048-9-001
TR-109	FET, 3SK45B	182-038-9-001
TR-116	FET, 3SK45B08	182-042-9-001
TR-101	Transistor, 2SC1674-L	176-081-9-002
TR-103,104,105	Transistor, 2SC1674-L	176-081-9-003
TR-108	Transistor, 2SC1938	176-081-9-004
TR-109	Transistor, 2SC1938	176-081-9-005
TR-110	Transistor, 2SC1938	176-081-9-006
TR-110,111,112	Transistor, 2SC1674-K	176-081-9-007
TR-113,114,115	Transistor, 2SC995A-C	176-082-9-001
TR-118,119	Transistor, 2SC995A-C	177-025-9-001
TR-1,2,4	Transistor, 2SA673-C	176-085-9-001
TR-3,5	Transistor, 2SC1923-O	176-085-9-002
TR-6	Transistor, 2SC1815-O	176-085-9-003
	Transistor, 2SC2120-O	176-085-9-004
D-1	Diode Silicon, 1S2790WT	151-070-9-001
D-111	Diode Silicon Rectifier, SR1K1	151-040-9-003
D-110,119	Diode Silicon Rectifier, 1S2873-K	151-040-9-001
D-34,5,8,101,102,103,104,105,106,112,114,115,117,118,201,202,301	Diode Silicon, 1S2076	151-067-9-001
D-2,7	Diode, Zener 082.9 V	152-085-9-001
D-113	Diode, Zener RDB2FC	152-085-9-002
D-401,402	L.E.D. SL-P1148	158-019-9-001
	COILS & TRANSFORMER	
L-101	Coil, LA-029	089-023-9-001
L-102	Coil, LA-180	089-024-9-001
L-103,114	Coil, LA-180	089-024-9-002
L-104	Coil, LA-183	089-022-9-001
L-105	Coil, LA-184	089-024-9-004
L-106	Coil, LA-184	089-024-9-005
L-113	Coil, LA-185	089-024-9-010
L-112	Coil, LA-189	041-094-9-010
L-111	Coil, LC-051	044-028-9-002
L-110	Coil, LC-020	044-033-9-003
L-109	Coil, LE-070	044-034-9-001
L-108	Coil, LE-008	044-032-9-001

CIRCUIT SYMBOL	DESCRIPTION	DYNAMSCAN PART NO.
L-117	Coil, LA-188	089-024-9-009
L-116	Coil, LA-187	089-024-9-008
L-115	Coil, LA-182	089-024-9-003
L-4	Coil, LB-088	046-021-9-001
L-11	Coil, LB-087	046-021-9-002
L-6	Coil, LB-088	046-021-9-003
L-5,7	Coil, LB-089	044-048-9-002
L-3,119	Coil, LD-089	041-056-9-002
L-2	Inductor, LZ-002	041-062-9-002
L-118	Inductor, LZ-001	041-062-9-001
L-10	Inductor, LZ-001	041-062-9-002
L-121	Inductor, LZ-001	041-062-9-003
CH-1	AF Choke Coil, Beads Core ID-087	042-014-9-001
	Modulator Transformer, TF-119	061-037-9-001
VR-5	Resistor, Variable Semi-Fixed, RV-189	008-323-9-001
VR-108	Resistor, Variable Semi-Fixed, RV-189	008-330-9-001
VR-4	Resistor, Variable Semi-Fixed, RV-189	008-316-9-003
VR-3	Resistor, Variable Semi-Fixed, RV-189	008-330-9-002
VR-1,2	Resistor, Variable Semi-Fixed, RV-189	008-316-9-002
VR-402	Resistor, Variable, RV-280	008-330-9-003
VR-101A + 101B + 102A + 102B + S1	Resistor, Variable, RV-278	008-330-9-004
VR-401A + VR-401B	Resistor, Variable, Feder Control with Tuning Shift, RV-278	008-330-9-005
	COILS & TRANSFORMER (Continued)	
L-117	Coil, LA-188	089-024-9-009
L-116	Coil, LA-187	089-024-9-008
L-115	Coil, LA-182	089-024-9-003
L-4	Coil, LB-088	046-021-9-001
L-11	Coil, LB-087	046-021-9-002
L-6	Coil, LB-088	046-021-9-003
L-5,7	Coil, LB-089	044-048-9-002
L-3,119	Coil, LD-089	041-056-9-002
L-2	Inductor, LZ-002	041-062-9-002
L-118	Inductor, LZ-001	041-062-9-001
L-10	Inductor, LZ-001	041-062-9-002
L-121	Inductor, LZ-001	041-062-9-003
CH-1	AF Choke Coil, Beads Core ID-087	042-014-9-001
	Modulator Transformer, TF-119	061-037-9-001
VR-5	Resistor, Variable Semi-Fixed, RV-189	008-323-9-001
VR-108	Resistor, Variable Semi-Fixed, RV-189	008-330-9-001
VR-4	Resistor, Variable Semi-Fixed, RV-189	008-316-9-003
VR-3	Resistor, Variable Semi-Fixed, RV-189	008-330-9-002
VR-1,2	Resistor, Variable Semi-Fixed, RV-189	008-316-9-002
VR-402	Resistor, Variable, RV-280	008-330-9-003
VR-101A + 101B + 102A + 102B + S1	Resistor, Variable, RV-278	008-330-9-004
VR-401A + VR-401B	Resistor, Variable, Feder Control with Tuning Shift, RV-278	008-330-9-005

CIRCUIT SYMBOL	DESCRIPTION	DYNAMSCAN PART NO.
R-13	Resistor, Carbon Film, 69 ohm ±5%	002-108-5-686
R-105,109,221,271,295	Resistor, Carbon Film, 100 ohm ±5%	002-108-5-101
R-21	Resistor, Carbon Film, 180 ohm ±5%	002-108-5-181
R-6,8,205,207,212,217,220,245	Resistor, Carbon Film, 220 ohm ±5%	002-108-5-221
R-20	Resistor, Carbon Film, 270 ohm ±5%	002-108-5-271
R-256,301	Resistor, Carbon Film, 300 ohm ±5%	002-108-5-301
R-36	Resistor, Carbon Film, 470 ohm ±5%	002-108-5-471
R-4,5,25,65	Resistor, Carbon Film, 560 ohm ±5%	002-108-5-561
R-103,104,287,270	Resistor, Carbon Film, 820 ohm ±5%	002-108-5-821
R-25,283,303	Resistor, Carbon Film, 1K ohm ±5%	002-108-5-821
R-3,7,11,24,41,62,82,201,204,216,289,275	Resistor, Carbon Film, 1K ohm ±5%	002-108-5-102
R-9,11,5,13	Resistor, Carbon Film, 1.5K ohm ±5%	002-108-5-152
R-101,102,230,238	Resistor, Carbon Film, 2.2K ohm ±5%	002-108-5-232
R-17,20,51,54,218,249,272	Resistor, Carbon Film, 3.3K ohm ±5%	002-108-5-332
R-11,22,31,43,256	Resistor, Carbon Film, 15K ohm ±5%	002-108-5-153
R-30,222,223,254,268	Resistor, Carbon Film, 22K ohm ±5%	002-108-5-223
R-28,261	Resistor, Carbon Film, 33K ohm ±5%	002-108-5-333
R-32,53,56,211,284	Resistor, Carbon Film, 47K ohm ±5%	002-108-5-473
R-294,225,226,280	Resistor, Carbon Film, 56K ohm ±5%	002-108-5-563
R-44	Resistor, Carbon Film, 82K ohm ±5%	002-108-5-823
R-19,41,107,111,200,243,265,278,288	Resistor, Carbon Film, 100K ohm ±5%	002-108-5-104
R-271	Resistor, Carbon Film, 220K ohm ±5%	002-108-5-224
R-241	Resistor, Carbon Film, 330K ohm ±5%	002-108-5-334
R-914	Resistor, Carbon Film, 470K ohm ±5%	002-108-5-474
R-233	Resistor, Carbon Film, 10 ohm ±5%	002-102-5-100
R-231	Resistor, Carbon Film, 10 ohm ±5%	001-102-5-100
R-231	Resistor, Carbon Film, 22 ohm ±5%	002-108-5-220
R-229	Resistor, Carbon Film, 22 ohm ±5%	002-108-5-220
R-229	Resistor, Carbon Film, 1K ohm ±5%	002-108-5-102
R-48	Resistor, Carbon Film, 100K ohm ±5%	002-108-5-104
R-246	Resistor, Metallic Film, 150 ohm ±10%	013-019-9-001
	CAPACITORS	
C-283,284	Capacitor, Tantalum, 25V 2.2uF ±20%	027-031-9-001
C-172	Capacitor, Tantalum, 25V 4.7uF ±20%	027-031-9-002
C-19,50,308	Capacitor, Aluminum Solid, 15V 0.47uF ±20%	022-158-9-001
C-53	Capacitor, Aluminum Solid, 15V 0.47uF ±20%	022-158-9-002
C-21,48,220,253,250,254,296	Capacitor, Electrolytic, 50V 1uF ±5%	022-157-9-002
C-232	Capacitor, Electrolytic, 25V 2.2uF ±5%	022-158-9-002
	CAPACITORS (Continued)	
C-41	Capacitor, Ceramic Disk, 50V 560pF ±10%	020-190-9-020
C-4,6,12,13,14,15,20,40,65	Capacitor, Ceramic Disk, 12V 0.01uF ±20%	020-190-9-021
C-24,25,66	Capacitor, Ceramic Disk, 12V 0.047uF ±20%	020-190-9-022
C-271	Capacitor, Ceramic Disk, 50V 20pF ±0.25pF ±1%	020-190-9-023
C-201	Capacitor, Ceramic Disk, 50V 20pF ±0.25pF ±1%	020-190-9-025
C-19	Capacitor, Ceramic Disk, 50V 12pF ±5%	020-190-9-026
C-18	Capacitor, Ceramic Disk, 50V 15pF ±5%	020-190-9-027
C-17	Capacitor, Ceramic Disk, 50V 27pF ±5%	020-190-9-028
C-32	Capacitor, Ceramic Disk, 50V 20pF ±5%	020-190-9-029
C-5	Capacitor, Ceramic Disk, 50V 1uF ±0.25pF ±1%	020-180-9-001
C-10	Capacitor, Ceramic Disk, 50V 2pF ±0.25pF ±1%	020-180-9-002
C-3,28	Capacitor, Ceramic Disk, 50V 4pF ±0.25pF ±1%	020-190-9-031
C-8	Capacitor, Ceramic Disk, 50V 9pF ±0.25pF ±1%	020-190-9-034
C-2	Capacitor, Ceramic Disk, 50V 10pF ±5%	020-190-9-035
C-262	Capacitor, Ceramic Disk, 50V 10pF ±5%	020-190-9-033
C-17	Capacitor, Ceramic Disk, 50V 14pF ±5%	020-185-9-004
C-11,67	Capacitor, Ceramic Disk, 50V 56pF ±5%	020-190-9-034
C-23	Capacitor, Ceramic Disk, 50V 120pF ±5%	020-190-9-035
C-26	Capacitor, Ceramic Disk, 50V 100pF ±5%	020-190-9-036
C-244	Capacitor, Ceramic Disk, 12V 0.2uF ±20%	020-187-9-012
C-118,122,304	Capacitor, Ceramic Disk, 12V 0.2uF ±20%	020-190-9-037
C-101,102,103,104	Capacitor, Semi-Fixed, CV-040	028-048-9-001
VC-4,5,101	Capacitor, Semi-Fixed, CV-043	028-048-9-002
VC-1A,1B	Capacitor, Semi-Fixed, CV-042	028-048-9-003
VC-3	Capacitor, Semi-Fixed, CV-044	028-048-9-004
VC-6	Capacitor, Semi-Fixed, CV-044	028-048-9-004
C-401,402,403,404,405,406	Capacitor, As-y, Ceramic Feed-Thru, 50V 1000pF X 6	033-037-9-001
CC-1	Capacitor Array, HA-003	527-077-9-002
	CRYSTALS	
X-1	Quartz Crystal, OX-077	10,24 MHz 133-014-9-001
X-3	Quartz Crystal, OX-078	10,695 MHz 133-014-9-002
X-2	Quartz Crystal, OX-079	36.47 MHz 133-014-9-003
	MISCELLANEOUS	
CF-101	Resistor, Carbon Film, 140-020-9-001	
CF-102	Resistor, Carbon Film, 140-018-9-002	
CF-103	Resistor, Carbon Film, 140-019-9-001	
CF-104	Resistor, Carbon Film, 140-019-9-002	
CF-105	Resistor, Carbon Film, 140-019-9-003	
CF-12	Dial Illumination Lamp, PL-074	320-022-9-001
CF-12	Dial Illumination Lamp, PL-074	320-022-9-001
M-011, PL-401	Remote Control Microphone, MK-066	562-021-9-001
P-21,22,23,24,25	Test Point Terminal, TP-033	757-033-9-001
PL-11,12,13,14,15,16	Test Point Terminal, TP-029	523-204-9-002
CM-4-P, CM101-P	Plug 7 pins PG-038	523-209-9-001
CM102-P	Plug 8 pins PG-038	523-209-9-002
CM3-P	Plug 8 pins PG-038	523-209-9-002

CIRCUIT SYMBOL	DESCRIPTION	DYNAMSCAN PART NO.
C-24,25,66	Capacitor, Ceramic Disk, 12V 0.047uF ±20%	020-190-9-022
C-271	Capacitor, Ceramic Disk, 50V 20pF ±0.25pF ±1%	020-190-9-023
C-201	Capacitor, Ceramic Disk, 50V 20pF ±0.25pF ±1%	020-190-9-025
C-19	Capacitor, Ceramic Disk, 50V 12pF ±5%	020-190-9-026
C-18	Capacitor, Ceramic Disk, 50V 15pF ±5%	020-190-9-027
C-17	Capacitor, Ceramic Disk, 50V 27pF ±5%	020-190-9-028
C-32	Capacitor, Ceramic Disk, 50V 20pF ±5%	020-190-9-029
C-5	Capacitor, Ceramic Disk, 50V 1uF ±0.25pF ±1%	020-180-9-001
C-10	Capacitor, Ceramic Disk, 50V 2pF ±0.25pF ±1%	020-180-9-002
C-3,28	Capacitor, Ceramic Disk, 50V 4pF ±0.25pF ±1%	020-190-9-031
C-8	Capacitor, Ceramic Disk, 50V 9pF ±0.25pF ±1%	020-190-9-034
C-2	Capacitor, Ceramic Disk, 50V 10pF ±5%	020-190-9-035
C-262	Capacitor, Ceramic Disk, 50V 10pF ±5%	020-190-9-033
C-17	Capacitor, Ceramic Disk, 50V 14pF ±5%	020-185-9-004
C-11,67	Capacitor, Ceramic Disk, 50V 56pF ±5%	020-190-9-034
C-23	Capacitor, Ceramic Disk, 50V 120pF ±5%	020-190-9-035
C-26	Capacitor, Ceramic Disk, 50V 100pF ±5%	020-190-9-036
C-244	Capacitor, Ceramic Disk, 12V 0.2uF ±20%	020-187-9-012
C-118,122,304	Capacitor, Ceramic Disk, 12V 0.2uF ±20%	020-190-9-037
C-101,102,103,104	Capacitor, Semi-Fixed, CV-040	028-048-9-001
VC-4,5,101	Capacitor, Semi-Fixed, CV-043	028-048-9-002
VC-1A,1B	Capacitor, Semi-Fixed, CV-042	028-048-9-003
VC-3	Capacitor, Semi-Fixed, CV-044	028-048-9-004
VC-6	Capacitor, Semi-Fixed, CV-044	028-048-9-004
C-401,402,403,404,405,406	Capacitor, As-y, Ceramic Feed-Thru, 50V 1000pF X 6	033-037-9-001
CC-1	Capacitor Array, HA-003	527-077-9-002
	CRYSTALS	
X-1	Quartz Crystal, OX-077	10,24 MHz 133-014-9-001
X-3	Quartz Crystal, OX-078	10,695 MHz 133-014-9-002
X-2	Quartz Crystal, OX-079	36.47 MHz 133-014-9-003
	MISCELLANEOUS	
CF-101	Resistor, Carbon Film, 140-020-9-001	
CF-102	Resistor, Carbon Film, 140-018-9-002	
CF-103	Resistor, Carbon Film, 140-019-9-001	
CF-104	Resistor, Carbon Film, 140-019-9-002	
CF-105	Resistor, Carbon Film, 140-019-9-003	
CF-12	Dial Illumination Lamp, PL-074	320-022-9-001
CF-12	Dial Illumination Lamp, PL-074	320-022-9-001
M-011, PL-401	Remote Control Microphone, MK-066	562-021-9-001
P-21,22,23,24,25		

