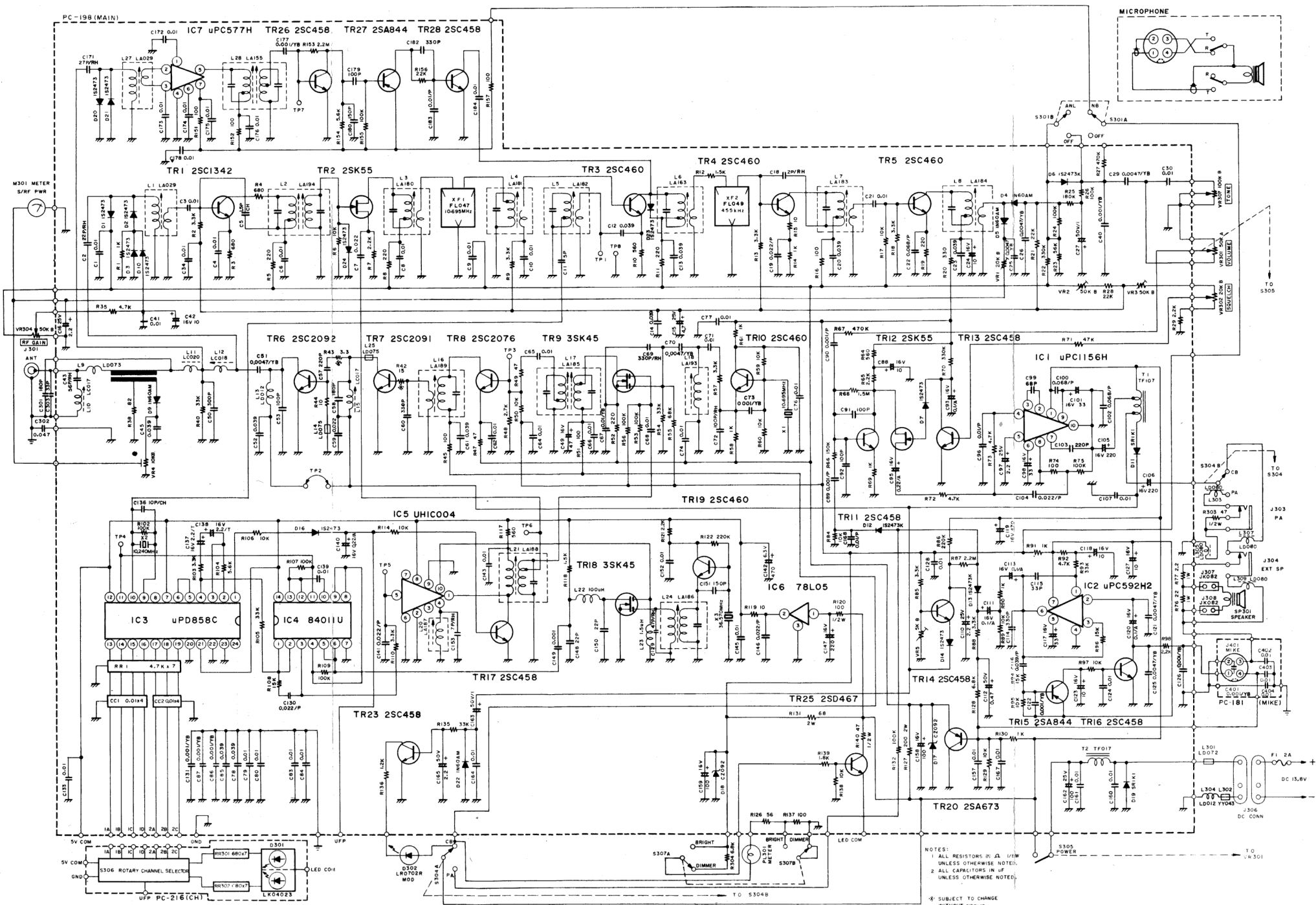


CIRCUIT DIAGRAM FOR "T" Bear



NOTES:
 1 ALL RESISTORS IN Δ 1/2W UNLESS OTHERWISE NOTED.
 2 ALL CAPACITORS IN μ F UNLESS OTHERWISE NOTED.
 * SUBJECT TO CHANGE WITHOUT NOTICE.

BILL OF MATERIAL FOR "T" Bear

CIRCUIT SYMBOL

DESCRIPTION

PART NO.

COILS & TRANSFORMERS (Continued)

CIRCUIT SYMBOL	DESCRIPTION	PART NO.					
	TRANSISTORS						
IC-1	Integrated Circuit	μPC1156H	DDEY091001	L-13	Coil	LD-012	LLDY012001
IC-2	Integrated Circuit	μPC592H2	DDEY097001	L-9	Coil	LD-073	LLDY073001
IC-3	Integrated Circuit	μPD858C	DDEY055001	L-303,305,307,309	Coil	LD-080	LLDY080001
IC-4	Integrated Circuit	MB84011U	DDEY089001	L-23	Micro Inductor	LZ-002 1.5μ	LLZY002003
IC-5	Integrated Circuit	UHIC-004	DDEY087001	L-22	Micro Inductor	LZ-001 100μ	LLZY001101
IC-6	Integrated Circuit	NUM78L05A	DDEY088001	T-2	Choke Transformer	TF-017	TTFY017001
IC-7	Integrated Circuit	μPC577H	DDEY064001	T-1	Output Transformer	TF-107	TTFY070001
				L-301	Bead Core	LD-072	LLDY072001
				L-14,25	Bead Core	LD-075	LLDY075001
				L-302	Bead Core	YY-043	ZYY043001

VARIABLE RESISTORS

TR-2,12	FET	2SK55-D	DDCY008001				
TR-9	FET	3SK45-B	DDCY104001	VR-5	Semi Fixed Resistor	RV-133 5KB	RRVY133005
TR-18	FET	3SK45B-09	DDCY104003	VR-4	Semi Fixed Resistor	RV-133 10KB	RRVY133006
TR-1	Transistor	2SC1342-B	DDBY287001	VR-1	Semi Fixed Resistor	RV-133 20KB	RRVY133007
TR-3,4,5,10,19	Transistor	2SC460-B	DDBY277002	VR-2,3	Semi Fixed Resistor	RV-133 50KB	RRVY133009
TR-6	Transistor	2SC2092	DDBY289001	VR-302	Variable Resistor	RV-049	RRVY049001
TR-7	Transistor	2SC2091	DDBY288001	VR-304	Variable Resistor	RV-071	RRVY071001
TR-8	Transistor	2SC2076 CB	DDBY270001	VR-307	Variable Resistor	RV-048	RRVY048001
TR-11,13,14,16,17,23,26,28	Transistor	2SC458-C	DDBY273001	VR-301	Variable Resistor	RV-197 with S	RRVY197001
TR-15,27	Transistor	2SA844-C	DDBY008001				
TR-20	Transistor	2SA673-C	DDBY007002				
TR-25	Transistor	2SD467-C	DDBY410002				

RESISTORS

D-24	Diode	IS2473	DDAY048009	R-77	Metalized Resistor	2.2 ohm	1W	K	RSJZ102295
D-1,2,3,7,10,14,16,20,21	Diode (12.5)	IS2473	DDAY048012	R-76	Metalized Resistor	22 ohm	1W	K	RSJZ102205
D-4,5,9,22	Diode	IN60AM	DDAY001022	R-131	Metalized Resistor	68 ohm	2W	K	RSJZ206805
D-6,12,13	Diode	IS2473K	DDAY048013	R-127	Metalized Resistor	200 ohm	2W	K	RSJZ202015
D-11,19	Diode	SRIK-1	DDAY002001	R-136	Carbon Resistor	1.2K ohm	1/8W	J	RFPZ181224
D-17,18	Zener Diode	CZ-092	DDAY010006	R-43	Carbon Resistor	2.2 ohm	1/8W	J	RFPZ182294
D-301	L.E.D.	LK04023	DDAY084001	R-15,119,44,42	Carbon Resistor	10 ohm	1/8W	J	RFPZ181004
D-302	L.E.D.	LR0702R	DDAY073001	R-47,49	Carbon Resistor	47 ohm	1/8W	J	RFPZ184704
				R-126	Carbon Resistor	56 ohm	1/8W	J	RFPZ185604
				R-38	Carbon Resistor	82 ohm	1/8W	J	RFPZ188204
				R-16,45,74,51,151,152,157	Carbon Resistor	100 ohm	1/8W	J	RFPZ181014
				R-5,8,11,19	Carbon Resistor	220 ohm	1/8W	J	RFPZ182214
				R-20	Carbon Resistor	330 ohm	1/8W	J	RPBZ143314
				R-10,64,117	Carbon Resistor	560 ohm	1/8W	J	RFPZ185614
				R-3,4,103	Carbon Resistor	680 ohm	1/8W	J	RFPZ186814
				R-139	Carbon Resistor	1.8K ohm	1/8W	J	RFPZ181824
				R-1,14,58,69,61,90,91,130	Carbon Resistor	1K ohm	1/8W	J	RFPZ181024
				R-12,118	Carbon Resistor	1.5K ohm	1/8W	J	RFPZ181524
				R-7,98,29,65,121,72	Carbon Resistor	2.2K ohm	1/8W	J	RFPZ182224
				R-48	Carbon Resistor	2.7K ohm	1/8W	J	RFPZ182724
				R-2,9,13,18,88,110,57,85	Carbon Resistor	3.3K ohm	1/8W	J	RFPZ183324
				R-35,73,92	Carbon Resistor	4.7K ohm	1/8W	J	RFPZ184724
				R-154,104	Carbon Resistor	5.6K ohm	1/8W	J	RFPZ185624
				R-128,304	Carbon Resistor	6.8K ohm	1/8W	J	RFPZ186824
				R-6,17,50,59,95,97,129,84	Carbon Resistor	10K ohm	1/8W	J	RFPZ181034
				106,114,105,89,138					
				R-96,94	Carbon Resistor	15K ohm	1/8W	J	RFPZ181534
				R-21,28,108,156	Carbon Resistor	22K ohm	1/8W	J	RFPZ182234
				R-40,54,93,135	Carbon Resistor	33K ohm	1/8W	J	RFPZ183334
				R-71	Carbon Resistor	47K ohm	1/8W	J	RFPZ184734
				R-23	Carbon Resistor	56K ohm	1/8W	J	RFPZ185634

COILS & TRANSFORMERS

L-1,27	Coil	LA-029	LLAY029001				
L-28	Coil	LA-155	LLAY155001				
L-6	Coil	LA-163	455KHz	LLAY163001			
L-3	Coil	LA-180	10.7MHz	LLAY180001			
L-4	Coil	LA-181	10.7MHz	LLAY181001			
L-5	Coil	LA-182	10.24MHz	LLAY182001			
L-7	Coil	LA-183	455KHz	LLAY183001			
L-8	Coil	LA-184	455KHz	LLAY184001			
L-17	Coil	LA-185	27MHz	LLAY185001			
L-24	Coil	LA-186	37.8MHz	LLAY186001			
L-20	Coil	LA-187	37.8MHz	LLAY187001			
L-21	Coil	LA-188	37.8MHz	LLAY188001			
L-16	Coil	LA-189	27MHz	LLAY189001			
L-18	Coil	LA-193		LLAY193001			
L-2	Coil	LA-194		LLAY194001			
L-10,15	Coil	LC-017		LLCY017001			
L-12	Coil	LC-018		LLCY018001			
L-11	Coil	LC-020		LLCY020001			

CIRCUIT SYMBOL	DESCRIPTION	PART NO.
RESISTORS (Continued)		
R-55	Carbon Resistor	68K ohm 1/8W J
R-24,26,56,53,75,107,109,132,102,155	Carbon Resistor	100K ohm 1/8W J
R-66	Carbon Resistor	150K ohm 1/8W J
R-25	Carbon Resistor	180K ohm 1/8W J
R-86,122	Carbon Resistor	220K ohm 1/8W J
R-22,70	Carbon Resistor	330K ohm 1/8W J
R-67	Carbon Resistor	470K ohm 1/8W J
R-68	Carbon Resistor	1.5M ohm 1/8W J
R-87,153	Carbon Resistor	2.2M ohm 1/8W J
R-137	Carbon Resistor	100 ohm 1/8W J
R-60	Carbon Resistor	10K ohm 1/8W J
	Carbon Resistor	220 ohm 1/4W J
R-303,140	Carbon Resistor	47 ohm 1/2W J
R-120	Carbon Resistor	100 ohm 1/2W J
RR-301,302	Compound Parts	HA-008
RR-1	Compound Parts	HA-006

CIRCUIT SYMBOL	DESCRIPTION	PART NO.
CAPACITORS		
C-137,138	Compound Parts	2.2μ 16V
C-112	Electrolytic Capacitor	0.47μ 50V
C-27,163	Electrolytic Capacitor	1μ 50V
C-165,97,110,116	Electrolytic Capacitor	2.2μ 25V
C-15	Electrolytic Capacitor	4.7μ 25V
C-24,42,88,118,123,127	Electrolytic Capacitor	10μ 16V
C-98,101,117	Electrolytic Capacitor	33μ 16V
C-49	Electrolytic Capacitor	47μ 16V
C-159,158	Electrolytic Capacitor	100μ 16V
C-162	Electrolytic Capacitor	100μ 25V
C-105,106,147	Electrolytic Capacitor	220μ 16V
C-142,144	Electrolytic Capacitor	470μ 6.3V
C-119	Electrolytic Capacitor	470μ 16V
C-93,111,113,120	Solid Aluminum Capacitor	0.1μ M 16V
C-140,95	Solid Aluminum Capacitor	0.22μ M 16V
C-89	Mylar Capacitor	0.001μ 50V K
C-96,90,168,183	Mylar Capacitor	0.01μ 50V K
C-19,104,141,146	Mylar Capacitor	0.022μ 50V K
C-116	Mylar Capacitor	0.039μ 50V K
C-100,102,22	Mylar Capacitor	0.068μ 50V K
C-5	Ceramic Capacitor	1.5P 50V C
C-18	Ceramic Capacitor	2P 50V C RH
C-153	Ceramic Capacitor	7P 50V C RH
C-136	Ceramic Capacitor	10P 50V J RH
C-2	Ceramic Capacitor	22P 50V J RH
C-171	Ceramic Capacitor	27P 50V J RH
C-129	Ceramic Capacitor	47P 50V J RH
C-43	Ceramic Capacitor	56P 50V J RH
C-72	Ceramic Capacitor	100 50V J RH
C-69	Ceramic Capacitor	330P 50V J RH
C-11	Ceramic Capacitor	5P 50V C SL
C-115,303	Ceramic Capacitor	33P 50V J SL
C-99	Ceramic Capacitor	68P 50V J SL
C-53,91,92,179	Ceramic Capacitor	100P 50V J SL
C-151,180	Ceramic Capacitor	150P 50V J SL
C-301,58	Ceramic Capacitor	180P 50V J SL
C-57,103	Ceramic Capacitor	220P 50V J SL

CIRCUIT SYMBOL	DESCRIPTION	PART NO.
CAPACITORS (Continued)		
C-50	Ceramic Capacitor	300P 50V J SL
C-60,114,182	Ceramic Capacitor	330P 50V J SL
C-148,150	Ceramic Capacitor	22P 50V J SL
C-40,73,131,87,122,126,401,149,86,177	Ceramic Capacitor	0.001μ 25V Z YB
C-29,70,51,121,125,25,26	Ceramic Capacitor	0.0047μ 25V Z YB
C-67	Ceramic Capacitor	0.01μ 50V K YB
C-1,3,4,6,8,9,10,21,30,34,41,44,45,62,64,68,71,74,77,66,65,76,107,124,145,152,143,139,133,164,128,157,167,160,161,79,80,81,83,84,402,403,404,172,173,174,175,176,178,184	Ceramic Capacitor	0.01μ 25V Z YG
C-7,59	Ceramic Capacitor	0.022μ 25V Z YG
C-13,20,23,14,52,61,85,78,12	Ceramic Capacitor	0.039μ 25V Z YG
C-302	Ceramic Capacitor	0.047μ 25V Z YG
CC-1,2	Compound Parts	HA-003

CIRCUIT SYMBOL	DESCRIPTION	PART NO.
CRYSTALS		
X-2	Crystal	QX-077 10.240MHz
X-1	Crystal	QX-078 10.695MHz
X-3	Crystal	QX-079 36.570MHz

CIRCUIT SYMBOL	DESCRIPTION	PART NO.
MISCELLANEOUS		
SP-301	Speaker	SP-003
M-301	Meter	MT-087
J-310,311	Microphone	MK-041
J-301	Speaker Jack	JK-082
J-401	Antenna Connector	JK-035
J-303,304	Jack	JK-072
XF-1	Jack	JK-010
XF-2	Ceramic Filter	FL-047
S-306	Ceramic Filter	FL-049
S-301,304,307	Rotary Switch	SR-155
J-312	Push Switch	SW-093
J-306	Jack	JK-073
TP-1,3,4,5,6,7,8	3F Consent	JK-052
F-1,2A	Check Terminal	TP-029
F-1,2A	Fuse	FS-001
F-1,2A	Flat Cable	WF-004
F-1,2A	DC Code	W-070088
F-1,2A	Printed Circuit Board Main	PC-198AA
F-1,2A	Printed Circuit Board Mike	PC-181AA
F-1,2A	Printed Circuit Board CH	PC-216AA
F-1,2A	Chassis	MDBP203844
F-1,2A	Upper Case	MDBP203846
F-1,2A	Lower Case	MDBP203847
F-1,2A	Bracket	MDBP303848
F-1,2A	Front Chassis	MDBC304309
F-1,2A	Front Chassis	MDBP304310
F-1,2A	Sub-Chassis	MDBP404311
F-1,2A	Switch Angle	MDBP404312

CIRCUIT
SYMBOL

DESCRIPTION

PART NO.

MISCELLANEOUS (Continued)

Meter Holder	MDBP404313
Shield Board	MDBP403852
Heat Sink (audio, IC)	MDBP403851
Heat Sink (TX Tr)	MDBP402914
Mike Hanger	MDBP402919
Front Panel	MDMP204318
Push Knob	MDMP404319
Channel Knob	MDMP404296
Knob	MDMP402825
LED Holder (Front)	MDMP403856
LED Holder (Back)	MDMP403857
Rubber Bushing	MDMP404324
Plate for Channel	MDNP404314
Brand Plate	MDNP404315
Control Plate	MDNP404316
FCC Plate	MDNP404317
Mike Plate	MDNP400286
Warning Label	MDLP402800
Transmitter Card	MDLP402178
Serial No. Label	MDLP402730
Production No. Seal	MDLP403866
Screw for Mounting	MDHP402770
Spacer	MDHP404320
Channel Window	MDAP404321
Rubber Washer	MDZP400638
Rubber Washer	MDZP401702
Insulation Board	MDZP403863
Meter Cushion	MDZP404364
Wool Tac	MDZP403865
Window Cushion	MDZP404325
Tapping Screw	MZSZ433006
Bind Screw M3 x 6	MZSN193006
Bind Screw M3 x 8	MZSN193008
Screw (audio, IC)	MZSS123004
Screw (TX, Tr)	MZSS123006
Round Tapping 3.5 x 8	MZSZ293508
Round Tapping 5 x 10	MZSZ295010
Screw M3 x 6	MZSN133006
Screw M3 x 8	MZSN103008
Flange Nut	MZSZ480030
Lugged Washer (A type)	MZSZ530035
Lugged Washer (B type)	MZSZ540050
Poly Bag	MZTT122740
Poly Bag	MZTT111012
Poly Bag	MZTT111160
Poly Bag	MZTT111228
Poly Bag	MZTT111732
Knob Spring	MZTT200003
Rivet 3.2φ x 3.2L	MZTT213232
Lug Terminal	MZTT150003

F-1,2A

CIRCUIT
SYMBOL

DESCRIPTION

PART NO.

MISCELLANEOUS (Continued)

Display Box	MDPP304322
Styrofoam (Front)	MDPP204869
Styrofoam (Back)	MDPP304870
Double Carton	NDPP404323
Instruction Booklet	MZPT211301
Schematic Diagram	MZPT211307
Warranty Card	MZPT000004
FCC Application Form	MZPY000002
FCC Temporary License Form	MZPY000022
FCC Rules Part 95	MZPY000025

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