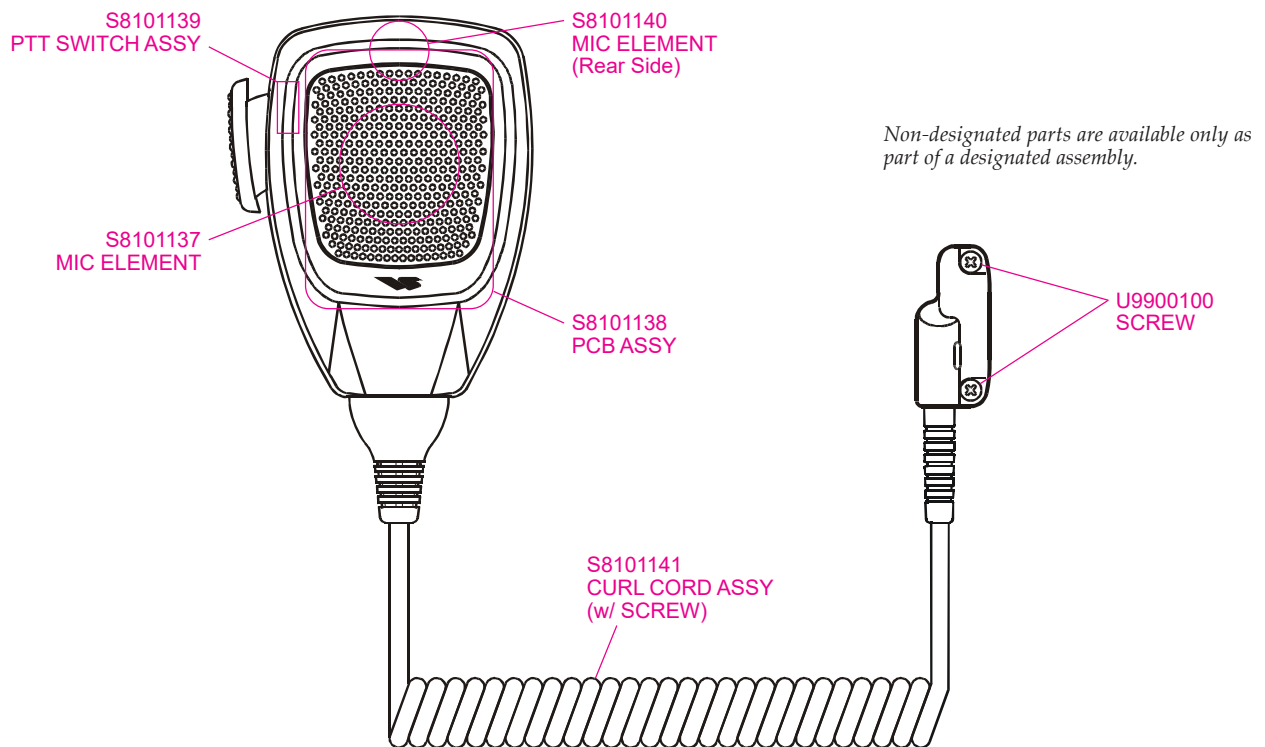


Noise-Canceling Microphone

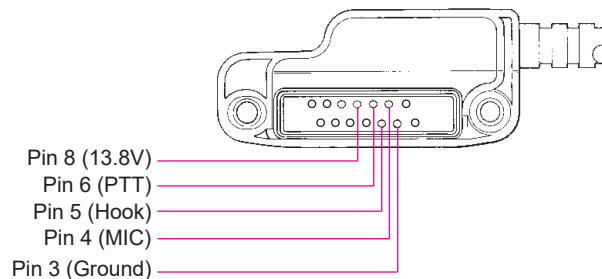
MH-53_{A7A}

Service Manual

The MH-53_{A7A} is a Noise-Canceling Microphone designed especially for Vertex Standard Transceivers.



Connector Pinout Diagram



Specifications

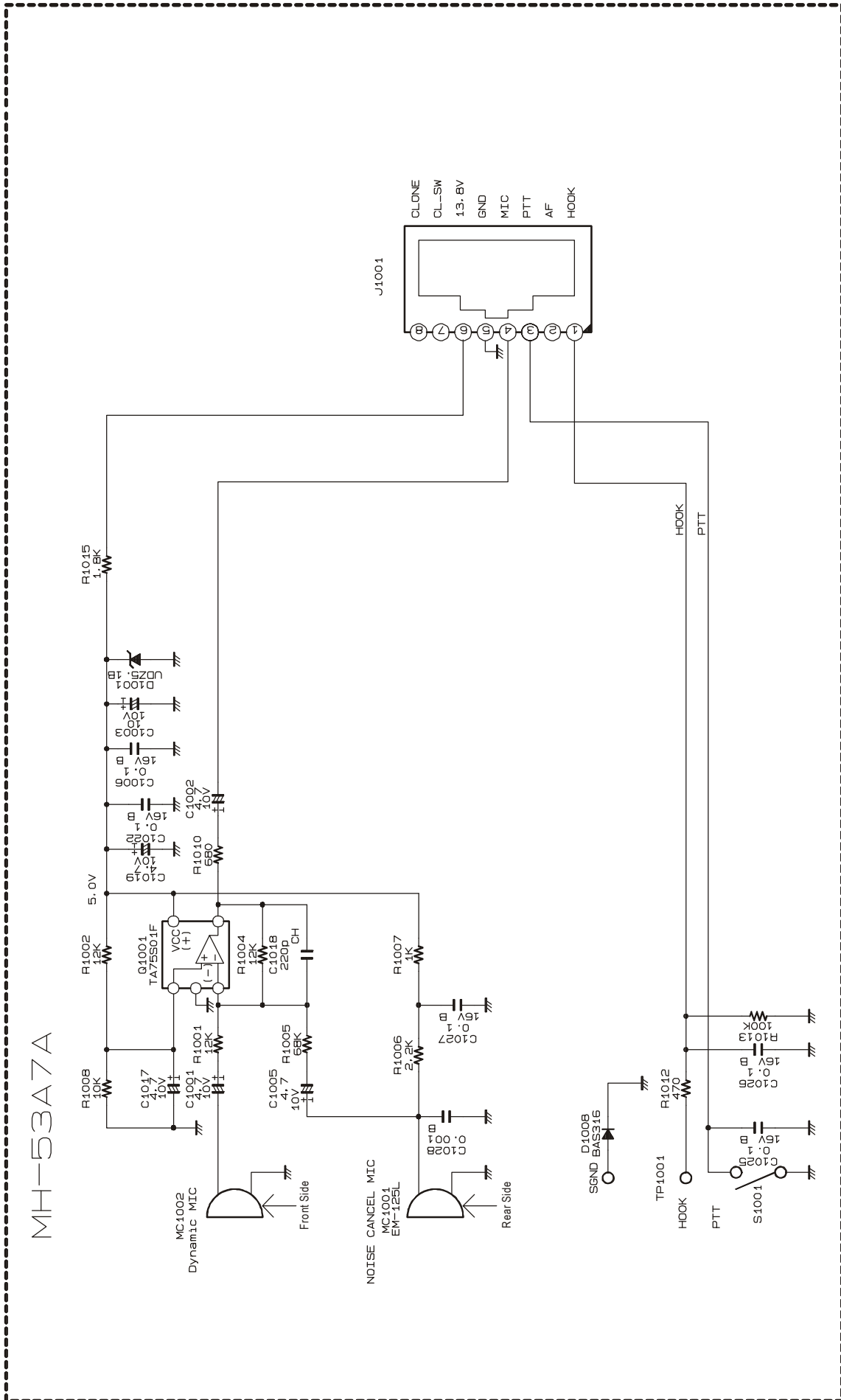
Microphone Type: Dynamic

Microphone Impedance: 700-ohm \pm 30 % at 1 kHz

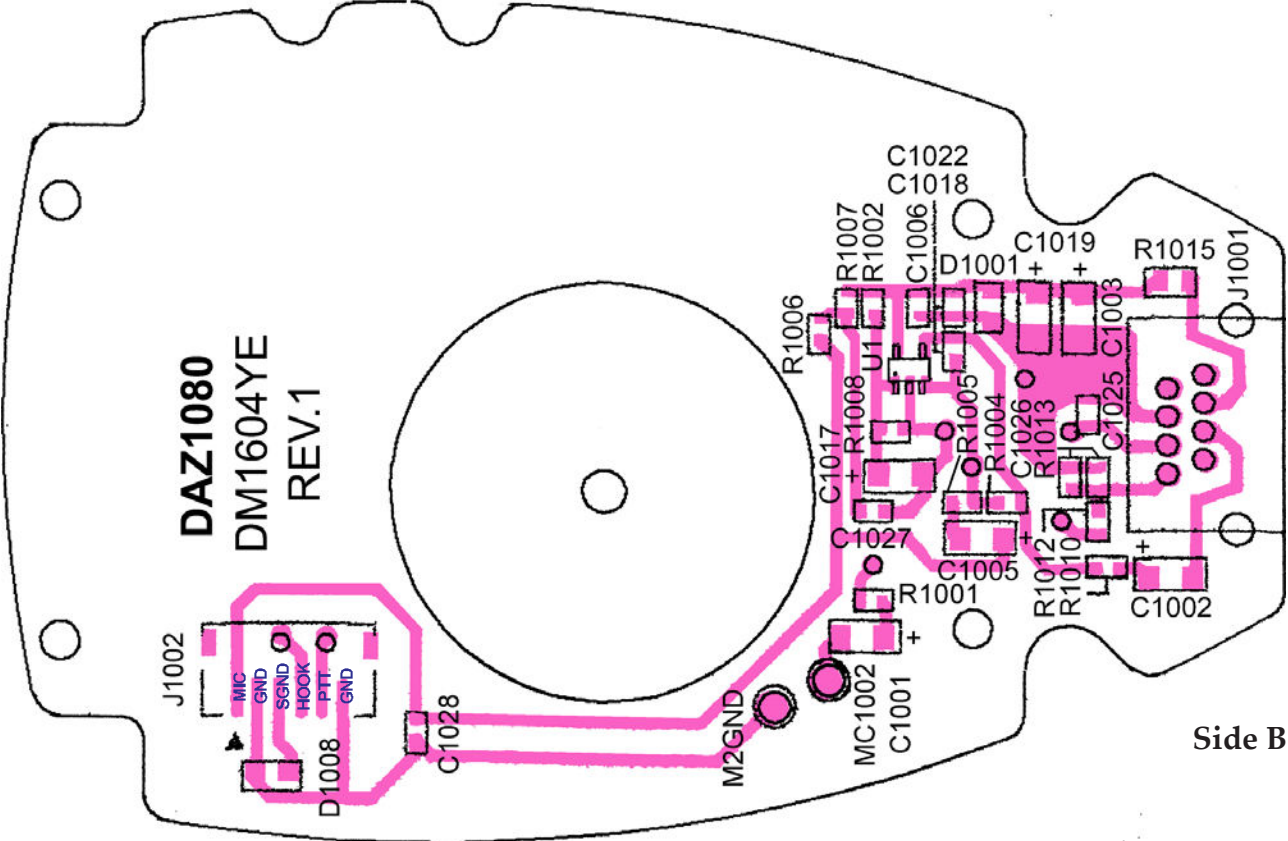
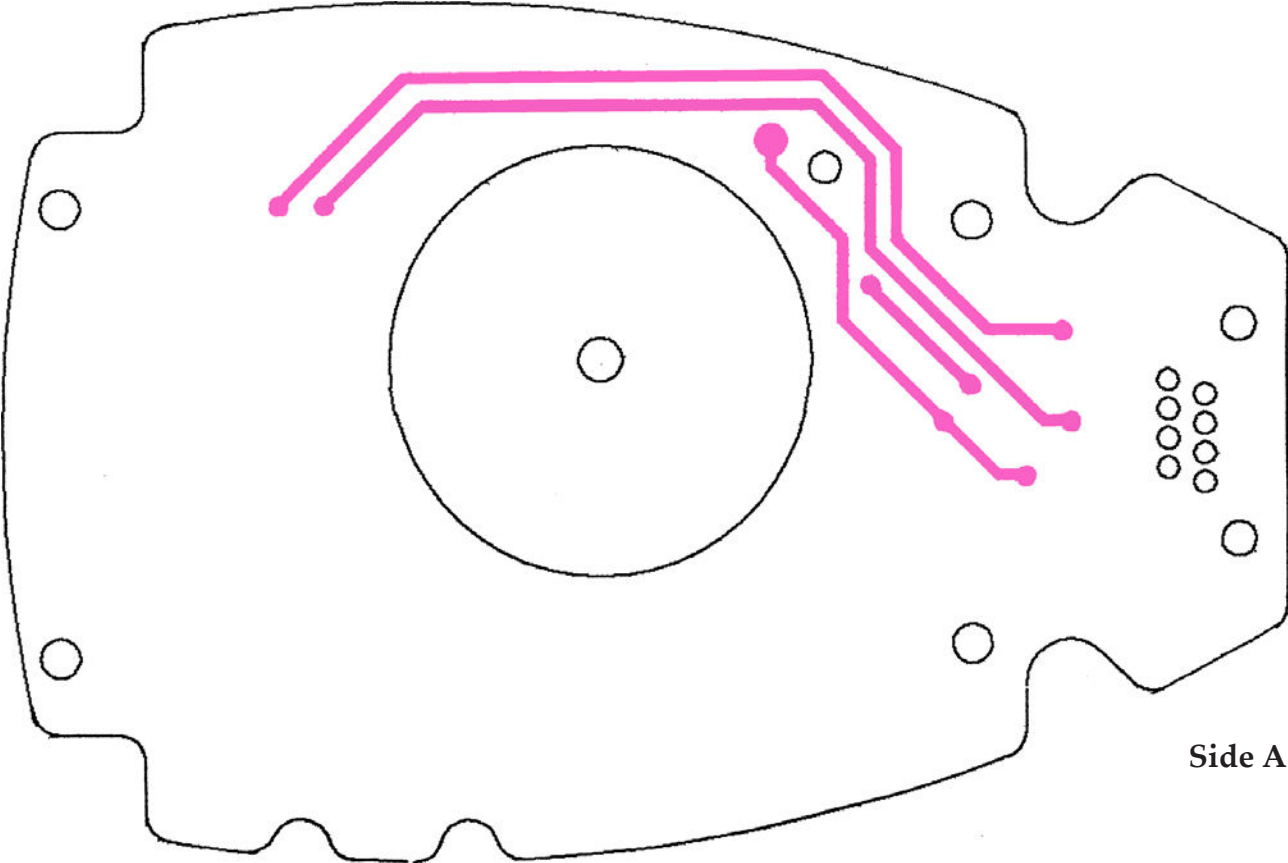
Microphone Sensitivity: -49.5 ± 4 dB at 1 kHz (0 dB = 1 V / microbar)

Operating Temperature: 14 °F to 122 °F (-10 °C to 50 °C)

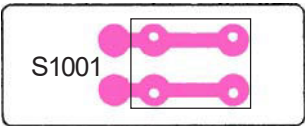
Weight (Approx.): 11.5 oz (325 g)



Noise Canceling Unit



PTT Unit



Parts List

REF.	DESCRIPTION	VALUE	V/W	TOL.	MFR'S DESIG	VXSTD P/N	LOT.	SIDE	LAY ADR
*** NOISE CANCELING UNIT ***									
PCB with Components						S8101138	1-		
C 1001	CHIP. TA. CAP.	4.7uF	10V		TESVB21A475M8R	K78100010	1-	B	
C 1002	CHIP. TA. CAP.	4.7uF	10V		TESVB21A475M8R	K78100010	1-	B	
C 1003	CHIP. TA. CAP.	10uF	10V		TEMSVA1A106M-8R	K78100028	1-	B	
C 1005	CHIP. TA. CAP.	4.7uF	10V		TESVB21A475M8R	K78100010	1-	B	
C 1006	CHIP CAP.	0.1uF	16V	B	GRM39B104K16PT	K22124805	1-	B	
C 1017	CHIP. TA. CAP.	4.7uF	10V		TESVB21A475M8R	K78100010	1-	B	
C 1018	CHIP CAP.	220pF	50V	CH	GRM39CH221J50PT	K22174243	1-	B	
C 1019	CHIP. TA. CAP.	4.7uF	10V		TESVB21A475M8R	K78100010	1-	B	
C 1022	CHIP CAP.	0.1uF	16V	B	GRM39B104K16PT	K22124805	1-	B	
C 1025	CHIP CAP.	0.1uF	16V	B	GRM39B104K16PT	K22124805	1-	B	
C 1026	CHIP CAP.	0.1uF	16V	B	GRM39B104K16PT	K22124805	1-	B	
C 1027	CHIP CAP.	0.1uF	16V	B	GRM39B104K16PT	K22124805	1-	B	
C 1028	CHIP CAP.	0.001uF	50V	B	GRM39B102K50PT	K22174821	1-	B	
D 1001	DIODE				UDZ TE-17 5.1B	G2070448	1-	B	
D 1008	DIODE				BAS316	G2070716	1-	B	
Q 1001	IC				TA75S01F TE85R	G1091593	1-	B	
R 1001	CHIP RES.	12k	1/16W	5%	RMC1/16 123JATP	J24185123	1-	B	
R 1002	CHIP RES.	12k	1/16W	5%	RMC1/16 123JATP	J24185123	1-	B	
R 1004	CHIP RES.	12k	1/16W	5%	RMC1/16 123JATP	J24185123	1-	B	
R 1005	CHIP RES.	68k	1/16W	5%	RMC1/16 683JATP	J24185683	1-	B	
R 1006	CHIP RES.	2.2k	1/16W	5%	RMC1/16 222JATP	J24185222	1-	B	
R 1007	CHIP RES.	1k	1/16W	5%	RMC1/16 102JATP	J24185102	1-	B	
R 1008	CHIP RES.	10k	1/16W	5%	RMC1/16 103JATP	J24185103	1-	B	
R 1010	CHIP RES.	680	1/16W	5%	RMC1/16 681JATP	J24185681	1-	B	
R 1012	CHIP RES.	470	1/16W	5%	RMC1/16 471JATP	J24185471	1-	B	
R 1013	CHIP RES.	100k	1/16W	5%	RMC1/16 104JATP	J24185104	1-	B	
R 1015	CHIP RES.	1.8k	1/10W	5%	RMC1/10T 182J	J24205182	1-	B	
J 1001	CONNECTOR				NTC-8PCBL8	S8101144	1-	B	
J 1002	CONNECTOR				B6B-ZR-SM3-TF	S8101145	1-		B
*** PTT UNIT ***									
PCB with Components						S8101139	1-		
S 1001	TACT SWITCH				SKHHAJ	N5090065	1-		