

MULTI-FUNCTION MICROPHONE WITH DTMF

MC-52DM/MC-53DM

SERVICE MANUAL

KENWOOD

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MC-52DM

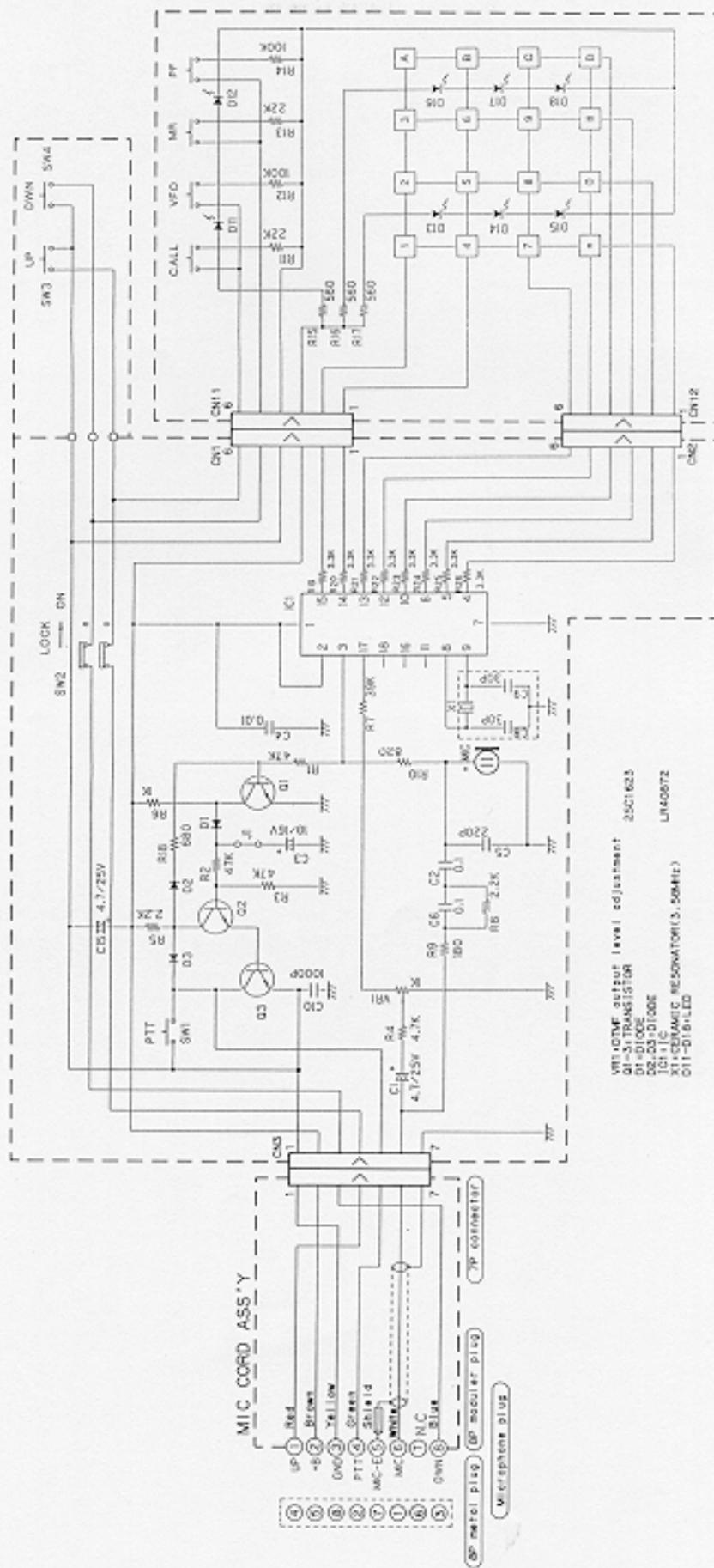


MC-53DM

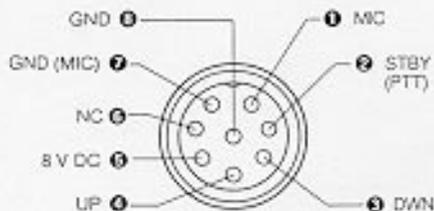
SPECIFICATIONS

Type	Electret capacitor
Power requirement	8.0 V DC $\pm 10\%$
Current drain	35 mA or less
Dimensions (WxHxD)	65 x 90 x 30 mm 2 9/16 x 3 17/32 x 1 3/16 in
Weight	Approx. 180 g/ 6.3 oz
Sensitivity	-70 \pm 3 dB (at 1 kHz) (0 dB = 1 V/ μ bar)

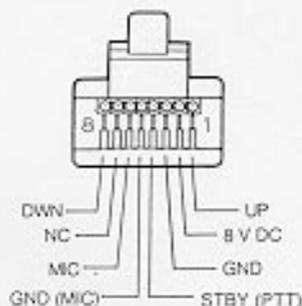
MC-52DM/MC-53DM SCHEMATIC DIAGRAM



MC-52DM
METAL plug (8P)



MC-53DM
Modular plug (8P)



ADJUSTMENT

Item	Condition	Test equipment/Measurement	Adjustment	Specifications/Remarks
DTMF output level	[3] [6] key at same time push	<p>The diagram shows two test setups. The left setup is for the MC-52DM Metal plug, and the right setup is for the MC-53DM Modular plug. Both setups include an AF VTVM (Audio Frequency Voltmeter) connected to the output lines. A 5.6kΩ resistor is connected between the output lines. A 5V DC source is connected to the 8V DC pin (pin 5 for MC-52DM, pin 2 for MC-53DM). The output lines are connected to a B (8V) source.</p>	VR1	2.4mV ±0.01mV

PARTS LIST

Ref. No.	Address	New Parts	Parts No.	Description	Destination	Remarks
		*	A02-1982-08	CASE (FRONT)		
		*	A02-1983-08	CASE (REAR)		
		*	E30-3243-08	MICROPHONE CORD ASSY (METAL)		52DM
		*	E30-3240-08	MICROPHONE CORD ASSY (MODULER)		53DM
		*	K29-5101-08	KNOB (PTT)		
		*	K29-5102-08	KNOB (UP, DWN)		
		*	K29-5103-08	KEY TOP (20KEY)		
		*	K29-5104-08	KNOB (LOCK)		
SW3,4	-		S40-1117-05	TACT SWITCH (UP, DWN)		
SW2	-	*	S62-0441-08	SLIDE SWITCH (LOCK)		
SW1	-	*	S70-0450-08	TACT SWITCH (PTT)		
		*	T91-0570-08	MICROPHONE ELEMENT		
IC1			LR40872	IC		
Q1-3			2SC1623	TRANSISTOR		