MC-60A Pin Connections, Before and After Modifications, for Use with ICOM Radios

Original, 8-pin Connector that connects to radio

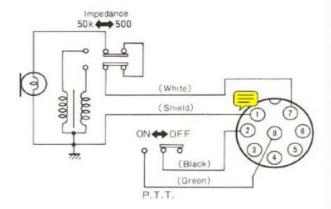
Pin-#	Color Wire	Original Kenwood Function		
1	Blue-Center Wire	MIC Center Cable		
2	Black	PTT		
3	Blue	DOWN of Up/Dn Switch		
4	Red	UP of Up/Dn Switch		
5	Yellow	BIAS Voltage Input		
6	NONE	NONE		
7	Blue-Shield	Mic Shielded Cable		
8	Green	Up/Dn & PTT Return Wire		

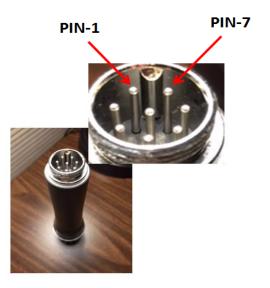
New, 8-Pin Connections for ICOM Radios (IC-746Pro/IC-756Pro-III)

Pin-#	SAME?	Color Wire	ICOM Radio Function	
1		C1 Capacitor Below	Microphone input	
2		Yellow	+8 V DC Ouput	
3		Red and R1 Below	Frequency up/down	
4		NONE	Main Readout Squelch Switch	
5		Black	PTT	
6		Green	GND (PTT GND)	
7	SAME	Blue-Shield	GND (Microhone ground)	
8		NONE	Main readout AF ouput	

Field Note: Capacitor, C1, Calculations					
Impedance	Capacitor			Calculation Answer is=	
600	= 1/(2 *pi *F *C)	= 1/(2*PI()*100*600)	=	2.65258E-06	
Use Fo of 100 Hz & 600 Z mic				Make the Capacitor X 10	
		to put the roll off at 1/10 the frequency			

MIC unit connection





te UP/DOWN switch
9/22/2014 8:25:48 AM=
The UP/DOWN switch Options 7 Sticky Note Gene

There is an error in the schematic. Perating frequency FACTORY WIRE POSITIONS SHOULD BE SWITCHED IN THE SCHEMATIC BETWEEN PINS 1 AND 7. THIS WAS AS MEASURED ON MY FACTORY MIChone may be used The shield is actually connected to Pin-7. ded especially The White is connected to Pin-1.

Pin-1 to Case DC resistance while switch is in 500 impedance position is 500 ohms or while switch is in the 50K switch position DC resistance is about 1K ohm.

This makes sense due to the ground needs to connect through to the ground in the stand unit and follow through to the MIC cable Pin-7.

used with VOX operated equipme NOTE: To conserve battery po