

EQUIPMENT TEST LIST

MANUAL MOBILE RADIO

SEE SECTION 010-300-011 FOR EQUIPMENT TEST LIST INSTRUCTIONS

EQUIPMENT TEST LIST						
B.S.P.	I S S	TEST OR REQT.	EQUIPMENT AND WORK DESCRIPTION	CLASS	FREQ.	JOB NO.
404			MANUAL MOBILE RADIO			
404-1			OVERALL SYSTEM			
404-100			Base Station Lineup			
404-100-501	3		CIRCUIT FACILITIES TESTS			
		A	<i>Circuit Terminations</i>	MW	M	
		B	<i>Noise and Crosstalk Tests</i>	MW	M	
		C	<i>1000-Hz Transmission Tests</i>	MW	M	
		D	<i>Transmission Frequency Tests</i>	MW	#	
			# <i>When initially installed</i>			
404-100-502	6		TRANSMITTER FREQUENCY AND MODULATION	MW	M	
			ADJUSTMENT			
404-100-503	2		G-TYPE CONTROL TERMINAL LEVELS	MW	12M	
404-100-504	1		H-TYPE CONTROL TERMINAL LEVELS	MW	12M	
404-100-505	3		RECEIVER OUTPUT LEVEL USING TEST			
			TRANSMITTER			
		1	<i>Base Station Receivers—Audio Level</i>	MW	W	
		2	<i>Monitoring Receivers—Audio Level</i>	MW	W	
		3	<i>Base Station Receivers—Squelch Adj.</i>	MW	12M	
		4	<i>Base Station Receivers—Squelch Check</i>	MW	W	
404-100-506	2		RECEIVER OUTPUT LEVEL USING FREQUENCY			
			CONVERTER			
		1	<i>Frequency Converter Adjustment</i>	MW	#	
			# <i>When initially installed</i>			
		2	<i>Receiver Level Adjustment</i>	MW	M	
		3	<i>Squelch Adjustment</i>	MW	W	
		4	<i>Routine Checks</i>	MW	W	
404-100-508	2		G-TYPE CONTROL TERMINAL ARRANGED FOR			
			FULL DUPLEX OPERATION			
		A	<i>Hybrid Coil</i>	MW	12M	
		B	<i>Noise Reducer</i>	MW	12M	
404-100-509	2		TALKING TESTS	MW	D	
404-2			BASE STATION TERMINAL EQUIPMENT			
404-201			G-2 Control Terminal			
404-201-300	2		OPERATION			
		A	<i>Transmitter Control Circuit</i>	MW	D	
		B	<i>Receiver Control Circuit</i>	MW	D	
		C	<i>Control and Indicating Circuit</i>	MW	M	

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B.S.P.	I S S	TEST OR REQT.	EQUIPMENT AND WORK DESCRIPTION	CLASS	FREQ.	JOB NO.
404-201-300	2		(Cont)			
		D	Auxiliary Control Circuit	MW	M	
404-201-500	2		MAINTENANCE			
		F	Transmission Levels	MW	12M	
404-202			H-Type Control Terminal			
404-202-500	1		MAINTENANCE	MW	6M	
404-203			B1 and B2 Vogad			
404-203-500	6		GENERAL TEST INFORMATION			
		2	Vacuum Tubes	MW	6M	
		3	Polar Relays	MW	M	
		4	Potentiometers	MW	6M	
404-203-501	2		TESTS			
		1	Preliminary Check	MW	6M	
		2	Voltage Check	MW	6M	
		3	Vogad Transmission Check	MW	6M	
		4	Gain Increaser Sensitivity Check	MW	6M	
		5	Gain Decreaser Sensitivity Check	MW	6M	
		6	Noise Check	MW	6M	
		7	Vogad Characteristics Check	MW	6M	
		8	Gain Increaser Characteristics Check	MW	6M	
404-204			A1 and A2 Noise Reducers			
404-204-501	1		TESTS			
		1	Overall Gain Check	MW	4M	
		3	Output-Input Power Characteristics	MW	4M	
			Check			
404-205			J68311A Selective Signaling Oscillator			
404-205-500	1		MAINTENANCE			
		2A	Filament Activity	MW	2M	
		2B	Heater Current	MW	2M	
404-206			J68312C Voice-Frequency Amplifier			
404-206-500	1		MAINTENANCE			
		2C	Tube Test	MW	12M	
		2D	Gain Measurements	MW	12M	
404-207			Motorola Start-Dial Indicator			
404-207-500	1		MAINTENANCE			
		3C	Adjustments	MW	#	
			# Initially and as required			

EQUIPMENT TEST LIST						
B.S.P.	I S S	TEST OR REQT.	EQUIPMENT AND WORK DESCRIPTION	CLASS	FREQ.	JOB NO.
404-220			WE-8066-L Remote Control Chassis			
404-220-500	1		MAINTENANCE			
		3B	Adjustments	MW	#	
			# Initially and as required			
404-3			MOBILE STATIONS			
404-300			Tests			
404-300-501	2		RECEIVERS AND SELECTORS			
		1	Alignment of Receiver to Antenna System	MW	6M	
		2	Adjustment of Receiver Frequency	MW	6M	
		3	Audio Output Test	MW	6M	
		4	Sensitivity and Noise Quieting Test	MW	6M	
		5	Volume Control Setting—Radio Receiver	MW	6M	
		6	Volume Control Adjustment—Handset	MW	6M	
		7	Selective Signaling Test	MW	6M	
		8	Oscillator Activity Test and Adjustment	MW	6M	
		9	Discriminator Linearity	MW	#	
			# Initially and as required			
		10	IF Gain Adjustment	MW	6M	
		11	AFC Test	MW	6M	
404-300-502	2		TRANSMITTERS			
		1	Alignment of TRMTR to Antenna System	MW	6M	
		2	Measurement of RF Power Output	MW	6M	
		3	Measurement of VSWR	MW	#	
			# Initially and as required			
		4	Measurement and Adjustment of	MW	6M	
			Operating Frequency			
		5	Measurement and Adjustment of	MW	6M	
			Modulation Deviation			
404-300-503	2		OVERALL TALKING TESTS			
			Test Call From Operator	MW	6M	
			Overall Talking Tests	MW	6M	
404-321			106A Selector			
404-321-500	1		MAINTENANCE			
		2A	239-GY Relay	MW	12M	
		2B	UA-Type and Allied Type Relays	MW	12M	
		2C	Selective Circuits and 17-A Varistors	MW	12M	
		2D	D-175279 Selector	MW	12M	

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B.S.P.	I S S	TEST OR REQT.	EQUIPMENT AND WORK DESCRIPTION	CLASS	FREQ.	JOB NO.
404-322			V51 Selector Panel			
404-322-500	2		MAINTENANCE			
		2A	280R Relay	MW	12M	
		2B	UA-Type Relay	MW	12M	
		2C	Selective Circuits and KS-15579, L1	MW	12M	
		2D	66A (D-175279) Selector	MW	12M	
404-5			150-MHz TRANSMITTERS AND RECEIVERS			
404-501			Motorola WETU-250-BC and WETU-50-B1			
404-501-500	2		MAINTENANCE			
			Transmitter Meter Panel	MW	W	
			Exciter Grid Currents	MW	3M	
			Test Transmitter	MW	3M	
		3.01	Exciter Alignment Base Transmitter	MW	6M	
		4.01	Final Amp. Alignment Base Transmitter	MW	6M	
		3.01	Test Transmitter	MW	6M	
		5.02	Base Transmitter Carrier Frequency	MW	6M	
		5.02	Test Transmitter Carrier Frequency	MW	6M	
		5.04	Modulation Deviation	MW	6M	
		5.06	Power Output	MW	3M	
		6.01	Power and Control Circuit Test	MW	6M	
			Transmitter			
		6.06	Power and Control Circuit Base	MW	6M	
			Transmitter			
		6.10	Power and Control Circuit Base	MW	12M	
			Transmitter—Overload			
		6.16	Relays—Inspecting and Cleaning	MW	6M	
		8.01	Cleaning General	MW	6M	
		8.02	Cleaning Filter	MW	3M	
		8.03	Oiling and Cleaning Blower Motor in	MW	3M	
			Base			
404-502			PA-8491-B, PA-8492, WE-8497, and			
			WE-8497-A			
404-502-500	1		MAINTENANCE			
		3	Performance Tests	MW	#	
			# Initially and as required			
		4C	Frequency	MW	6M	
		4D	Power	MW	3M	

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B.S.P.	I S S	TEST OR REQT.	EQUIPMENT AND WORK DESCRIPTION	CLASS	FREQ.	JOB NO.
404-502-500	1		(Cont)			
		4E	Modulation	MW	6M	
404-503			Type 540A			
404-503-500	2		MAINTENANCE			
		2A	Relay Cleaning	MW	3M	
		2B	Air-Filter Cleaning or Replacement	MW	3M	
		2C	Connections	MW	3M	
		2D	Vacuum Tubes	MW	3M	
		2E	Power Output	MW	3M	
		2F	Alignment of 40A Radio Transmitter	MW	6M	
		2G	Alignment of 137A Amplifier	MW	6M	
404-504			GE PLM-7484519-G11 Transmitter and PL-7776064-G1 Multi-Frequency Panel			
404-504-500	1		MAINTENANCE			
		3C	Frequency	MW	6M	
		3D	Modulation	MW	6M	
		3E	Power Output	MW	3M	
404-505			GE 4ET1E1 REV RC286			
404-505-500	1		MAINTENANCE			
		4C	Frequency	MW	6M	
		4D	Power	MW	3M	
		4E	Modulation	MW	6M	
			Base Station Receivers			
404-522			Motorola PA-8433-A and WE-8476			
404-522-500	1		MAINTENANCE			
		5B	Discriminator Output	MW	6M	
		5C	Sensitivity, Gain, and Noise Quieting	MW	6M	
		5D	Squelch Circuit	MW	6M	
		5F	Gain Control Adjustment	MW	6M	
404-524			GE 4ER21A1 REV RC286			
404-524-500	1		MAINTENANCE			
		4E	RF Tuning	MW	6M	
404-525			GE 4ER25B12 RC705			
404-525-500	1		MAINTENANCE			
		4E	RF Tuning	MW	6M	
			Mobile Station Transmitter-Receiver			
404-563			GE MC271WE6 Maritime			

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B.S.P.	I S S	TEST OR REQT.	EQUIPMENT AND WORK DESCRIPTION	CLASS	FREQ.	JOB NO.
404-563-500	1		MAINTENANCE			
			<i>General System Performance</i>	<i>MW</i>	<i>6M</i>	
			<i>Check of Operating Voltages</i>	<i>MW</i>	<i>12M</i>	
			<i>Maintenance of WECO 552A Filters</i>	<i>MW</i>	<i>6M</i>	
			<i>Mechanical and General Inspection</i>	<i>MW</i>	<i>6M</i>	
			<i>Tube Tests</i>	<i>MW</i>	<i>12M</i>	
			<i>Antenna Inspection</i>	<i>MW</i>	<i>6M</i>	
			Mobile Station Receivers			
404-581			150 MHz—Type 38			
404-581-500	3		MAINTENANCE			
		4	<i>Maintenance Tests and Adjustment</i>	<i>MW</i>	<i>6M</i>	
404			MANUAL MOBILE RADIO			
404-2			BASE STATION TERMINAL EQUIPMENT			
404-201			G-2 Control Terminal			
404-201-500	2		MAINTENANCE			
		A	<i>Relays</i>	<i>TT</i>		
		B	<i>Dial</i>	<i>TT</i>		
		C	<i>Control and Alarm Circuit</i>	<i>TT</i>		
404-204			A1 and A2 Noise Reducers			
404-204-500	2		GENERAL TEST INFORMATION	<i>TT</i>		
404-204-501	1		TESTS			
		2	<i>Gain-Frequency Characteristics Check</i>	<i>TT</i>		
		4	<i>Noise Check</i>	<i>TT</i>		
404-205			J68311A Selective Signaling Oscillator			
404-205-500	1		MAINTENANCE			
		2C	<i>Relays</i>	<i>TT</i>		
		2D	<i>Frequencies</i>	<i>TT</i>		
		2E	<i>Output</i>	<i>TT</i>		
404-206			J68312C Voice-Frequency Amplifier			
404-206-500	1		MAINTENANCE			
		2E	<i>Noise</i>	<i>TT</i>		
404-207			Motorola Start-Dial Indicator			
404-207-500	1		MAINTENANCE			
		3A	<i>Inspection and Cleaning</i>	<i>TT</i>		
		3B	<i>Vacuum Tubes</i>	<i>TT</i>		
		3C	<i>Adjustments</i>	<i>TT</i>		
404-220			Motorola WE-8066-L Remote Control Chassis			

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B.S.P.	I S S	TEST OR REQT.	EQUIPMENT AND WORK DESCRIPTION	CLASS	FREQ.	JOB NO.
404-220-500	1		MAINTENANCE			
		3A	<i>Inspection and Cleaning</i>	TT		
		3B	<i>Adjustments</i>	TT		
		3C	<i>Relay Data</i>	TT		
404-230			Motorola WE-8464 Power Supply Chassis			
404-230-500	2		MAINTENANCE			
		4A	<i>Inspection and Cleaning</i>	TT		
		4B	<i>Fuses</i>	TT		
		4C	<i>Vacuum Tubes</i>	TT		
404-3			MOBILE STATIONS			
404-300			Tests			
404-300-501	2		RECEIVERS AND SELECTORS			
		1	<i>Alignment of RCVR to Antenna System</i>	TT		
		2	<i>Adjustment of Receiver Frequency</i>	TT		
		3	<i>Audio Output Test</i>	TT		
		4	<i>Sensitivity and Noise Quieting Test</i>	TT		
		5	<i>Volume Control Setting—Radio Receiver</i>	TT		
		6	<i>Volume Control Adjustment—Handset</i>	TT		
		7	<i>Selective Signaling Test</i>	TT		
		8	<i>Oscillator Activity Test and Adjustment</i>	TT		
		9	<i>Discriminator Linearity</i>	TT		
		10	<i>IF Gain Adjustment</i>	TT		
		11	<i>AFC Test</i>	TT		
404-300-502	2		TRANSMITTERS			
		1	<i>Alignment of TRMTR to Antenna System</i>	TT		
		2	<i>Measurement of RF Power Output</i>	TT		
		3	<i>Measurement of VSWR</i>	TT		
		4	<i>Measurement and Adjustment of Operating Frequencies</i>	TT		
		5	<i>Measurement and Adjustment of Modulator Deviation</i>	TT		
404-4			35-MHz TRANSMITTERS AND RECEIVERS			
404-422			Base Station Receivers—Type 41B			
404-422-500	1		MAINTENANCE			
		3A	<i>Discriminator Output</i>	TT		
		3B	<i>Sensitivity and Noise Quieting</i>	TT		
		3C	<i>Residual Noise and Hum</i>	TT		

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B.S.P.	ISS	TEST OR REQ.	EQUIPMENT AND WORK DESCRIPTION	CLASS	FREQ.	JOB NO.
404-422-500	1		(Cont)			
		3D	Squelch Circuits	TT		
		3E	6-Volt DC Power Supply	TT		
		4A	First Crystal Oscillator	TT		
		4B	Second Crystal Oscillator	TT		
		4C	Discriminator	TT		
		4D	IF Circuit	TT		
		4E	RF and High IF Circuits	TT		
		5A	Voltage and Current	TT		
		5B	Electron Tubes	TT		
		5C	Audio Amplifier	TT		
		5D	Antenna to Discriminator	TT		
		5E	Localization of Trouble—Antenna to Discriminator	TT		
		5F	Squelch Circuit	TT		
		5G	Squelch Relay	TT		
		5H	Vibrator Contact Cleaning	TT		
		5I	Voltages and Resistances	TT		
404-5			150-MHz TRANSMITTERS AND RECEIVERS			
404-501			Motorola WETU-250-BC and WETU-50-B1			
404-501-500	2		MAINTENANCE			
		6.16	Inspecting and Cleaning of Relays	TT		
		6.18	Testing and Adjusting Relays	TT		
		7.01	Locating Trouble	TT		
		7.02	Voltages and Resistances	TT		
		7.05	Vacuum Tubes	TT		
404-502			Motorola PA-8491-B, PA-8492, WE-8497, and WE-8497-A			
404-502-500	1		MAINTENANCE			
		3	Performance Tests	TT		
		4A	Inspection and Cleaning	TT		
		4B	Alignment	TT		
		4F	Vacuum Tubes	TT		
404-504			GE PLM-7484519-G11 Transmitter and PL-7776064-G1 Multi-Frequency Panel			
404-504-500	1		MAINTENANCE			
		2	Performance Tests	TT		

EQUIPMENT TEST LIST

B.S.P.	I S S	TEST OR REQT.	EQUIPMENT AND WORK DESCRIPTION	CLASS	FREQ.	JOB NO.
404-504-500	1		(Cont)			
		3A	<i>Inspection and Cleaning</i>	TT		
		3B	<i>Alignment</i>	TT		
		3F	<i>Vacuum Tubes</i>	TT		
404-505			GE 4ET1E1 REV RC286			
404-505-500	1		MAINTENANCE			
		4A	<i>Inspection and Cleaning</i>	TT		
		4B	<i>Alignment</i>	TT		
		4F	<i>RF Level Indicator</i>	TT		
		4G	<i>Electron Tubes</i>	TT		
			Base Station Receivers			
404-522			Motorola PA-8433-A and WE-8476			
404-522-500	1		MAINTENANCE			
		4	<i>Performance Test</i>	TT		
		5B	<i>Discriminator Output</i>	TT		
		5C	<i>Sensitivity, Gain, and Noise Quieting</i>	TT		
		5D	<i>Squelch Circuit</i>	TT		
		5E	<i>Alignment</i>	TT		
		5F	<i>Gain Control Adjustment</i>	TT		
404-523			Types 40AA and 40B			
404-523-500	2		MAINTENANCE			
		3A	<i>Discriminator Output</i>	TT		
		3B	<i>Sensitivity and Noise Quieting</i>	TT		
		3C	<i>Residual Noise and Hum</i>	TT		
		3D	<i>Squelch Circuits</i>	TT		
		3E	<i>6-Volt DC Power Supply</i>	TT		
		4A	<i>First Crystal Oscillator</i>	TT		
		4B	<i>Second Crystal Oscillator</i>	TT		
		4C	<i>Discriminator</i>	TT		
		4D	<i>IF Circuit</i>	TT		
		4E	<i>RF and High IF Circuits</i>	TT		
		4F	<i>Harmonic Amplifier</i>	TT		
		5A	<i>Voltage and Current</i>	TT		
		5B	<i>Electron Tubes</i>	TT		
		5C	<i>Audio Amplifier</i>	TT		
		5D	<i>Antenna to Discriminator</i>	TT		

EQUIPMENT TEST LIST

B.S.P.	I S S	TEST OR REQT.	EQUIPMENT AND WORK DESCRIPTION	CLASS	FREQ.	JOB NO.
404-523-500	2		(Cont)			
		5E	Localization of Trouble—Antenna to Discriminator	TT		
		5F	Receivers With Off-Channel Squelch	TT		
		5G	Receivers Without Off-Channel Squelch	TT		
		5H	Vibrator Contact Cleaning	TT		
		5I	Voltages and Resistances	TT		
404-524			GE 4ER211A1 REV RC286			
404-524-500	1		MAINTENANCE			
		4A	Inspection and Cleaning	TT		
		4B	Discriminator Alignment	TT		
		4C	Low IF Alignment	TT		
		4D	High IF Alignment	TT		
		4F	Electron Tubes	TT		
404-525			GE 4ER25B12 RC705			
404-525-500	1		MAINTENANCE			
		4A	Inspection and Cleaning	TT		
		4B	Discriminator Alignment	TT		
		4C	Low IF Alignment	TT		
		4D	High IF Alignment	TT		
		4F	Electron Tubes	TT		
			Mobile Station Transmitter-Receivers			
404-563			GE MC271WE6 Maritime			
404-563-500	1		MAINTENANCE			
		3	Maintenance WEC0 552A Filters	TT		
		4	Alignment WEC0 552A Filters	TT		
			Mobile Station Receivers			
404-581			Type 38			
404-581-500	3		MAINTENANCE			
		3	In-Service Performance Tests	TT		
		4	Maintenance Tests and Adjustments	TT		
		5	Trouble Location and Correction	TT		