

**EQUIPMENT TEST LIST**

**TD-3 MICROWAVE 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.
411			TD-3 MICROWAVE RADIO			
411-1			OVERALL SYSTEM			
411-100			Description			
411-100-301	2		INITIAL LINEUP OF CHANNELS	MW	#	
			<i># Initially and when additional channels are added</i>			
411-100-501	2		ENVELOPE DELAY DISTORTION	MW	6M	
411-100-503	1		CHANNEL NET GAIN AND BASEBAND RESPONSE	MW	18M	
ADDENDUM	1					
411-100-504	1		THERMAL NOISE AND SPURIOUS TONES	MW	3M	
ADDENDUM	1					
411-100-505	1		NOISE LOADING	MW	18M	
411-100-509	1		CARRIER FREQUENCY MEASUREMENT	MW	3M	
411-4			J68386A AND J68386B TRANSMITTER-			
			RECEIVER BAYS			
411-400			General			
			TESTS			
411-400-501	2		IN-SERVICE CHECKS			
ADDENDUM	1					
		1	<i>In-Service Checks</i>	MW	3M	
		2	<i>In-Service Frequency Check on the J68387B and J68387R Microwave Generators</i>	MW	12M	
		3	<i>In-Service Frequency Check on the 40-MHz Oscillator</i>	MW	12M	
411-402			Common Equipment Tests			
411-402-500	2		PRELIMINARY CHECKS			
		1	<i>-19V Regulator Checks</i>	MW	24M	
		2	<i>Microwave Generator Checks</i>	MW	12M	
411-402-511	1		IMPULSE NOISE TROUBLESHOOTING	MW	#	
			<i>#Initial 1A RDS installation and when units or components are changed</i>			
411-402-512	2		FADE MARGIN TESTS	MW	A	
411-406			Transmitter Tests			
411-406-501	4		J68386A AND J68386B—TRANSMISSION			
		1	<i>IF Carrier Resupply Checks</i>	MW	12M	
411-5	1		J68386G AND J68386H TRANSMITTER-			
			RECEIVER BAYS			
411-500			General			

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411-500-501	3		IN-SERVICE CHECKS			
		1	<i>In-Service Checks</i>	MW	3M	
		2	<i>In-Service Checks of Microwave Generator and 40-MHz Oscillator</i>	MW	12M	
411-502			Common Equipment Tests			
411-502-500	5		PRELIMINARY CHECKS			
		1	<i>-19V Regulator Check</i>	MW	24M	
		2	<i>Microwave Generator Frequency Check</i>	MW	12M	
		3	<i>Microwave Generator Power Check</i>	MW	24M	
		4	<i>40-MHz Oscillator and Shift Modulator Check</i>	MW	24M	
411-502-511	1		IMPULSE NOISE TROUBLESHOOTING	MW	#	
			<i>#Initial 1A RDS installation and when units or components are changed</i>			
411-502-512	2		FADE MARGIN TESTS	MW	A	
411-506			Transmitter Tests			
411-506-501	5		TRANSMISSION			
		5 or 11	<i>IF Limiter—Carrier Resupply Operation Checks</i>	MW	12M	
411			TD-3 MICROWAVE RADIO			
411-1			OVERALL SYSTEM			
411-100			Description			
411-100-505	1		NOISE LOADING	TT		
411-100-506	1		DIFFERENTIAL PHASE AND GAIN	TT		
411-100-508	1		RECEIVED CARRIER POWER	TT		
411-4			TRANSMITTER-RECEIVER BAY			
411-402			Common Equipment Tests			
411-402-501	2		J68387B MICROWAVE GENERATOR	TT		
411-402-502	1		-19 VOLT REGULATOR	TT		
411-402-503	2		J68387D 40-MHz OSCILLATOR—SHIFT MODULATOR	TT		
411-402-504	2		J68387R MICROWAVE GENERATOR AND 4-GHz MULTIPLIER	TT		
411-402-511	1		IMPULSE NOISE TROUBLESHOOTING	TT		
411-402-513	1		CROSS-POLARIZATION DISCRIMINATION TEST	TT		
411-404			Receiver Tests			
411-404-501	4		J68386A AND J68386B—TRANSMISSION			
		1 or 6	<i>40-MHz Osc and Shift Modltr Checks</i>	TT		
		2 or 7	<i>Revr Modltr BO Power Adjmt</i>	TT		
		3 or 8	<i>Overall Transmission Test</i>	TT		

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411-404-501	4		(Cont)			
		4 or 9	Receiver Modltr Adjmt	TT		
		5 or 10	IF Main and AGC Amplr Adjmt	TT		
411-404-502	2		J68386A AND J68386B—IF RETURN-LOSS MEASUREMENT	TT		
411-404-503	1		J68387P RECEIVER MODULATOR—IF PREAMPLIFIER	TT		
411-404-504	1		J68387C RECEIVER MODULATOR—IF PREAMPLIFIER	TT		
411-404-505	1		NOISE FIGURE	TT		
411-406			Transmitter Tests			
411-406-501	4		J68386A AND J68386B—TRANSMISSION			
		2	Overall Transmission Tests	TT		
		3	IF-to-IF Response	TT		
		4	Transmitter Modulator Adjmt	TT		
		5	TWT Amplifier Adjmt	TT		
		6	Transmitter Output Alarm Adjmt	TT		
411-406-502	1		IF RETURN-LOSS MEASUREMENT	TT		
411-406-503	2		J68387E IF DRIVER AMPLIFIER— TRANSMITTER MODULATOR	TT		
411-406-504	4		J86835A TWT POWER SUPPLY TESTS AND TWT AMPL REPLACEMENT PROCEDURE	TT		
411-5			J68386G AND J68386H TRANSMITTER- RECEIVER BAYS			
411-502			Common Equipment Tests			
411-502-502	2		-19 VOLT REGULATOR	TT		
411-502-503	2		J68387W 40-MHz OSCILLATOR AND SHIFT MODULATOR	TT		
411-502-504	6		J68387R-( ) MICROWAVE GENERATOR AND 4-GHz MULTIPLIER	TT		
411-502-505	1		70A DETECTOR, 27A OR 28A INTEGRATED CIRCUIT	TT		
ADDENDUM	1					
411-502-511	1		IMPULSE NOISE TROUBLESHOOTING	TT		
411-502-513	1		CROSS-POLARIZATION DISCRIMINATION TEST	TT		
411-504			Receiver Tests			
411-504-501	4		TRANSMISSION			
		1 or 4	Overall Transmission Tests	TT		
		2 or 5	Receiver Modulator and IF Preamplifier Adjustment	TT		



