

**EQUIPMENT TEST LIST**

**VOICE-FREQUENCY TELEPHONE REPEATERS, PILOT**

**WIRE REGULATORS, ECHO SUPPRESSORS, COMPOSITE**

**SETS AND ASSOCIATED EQUIPMENT**

**SEE SECTION 010-300-011 FOR EQUIPMENT TEST LIST INSTRUCTION**

EQUIPMENT TEST LIST						
B.S.P.	I S S	TEST OR REQT.	EQUIPMENT AND WORK DESCRIPTION	CLASS	FREQ.	JOB NO.
332-0			INDEXES AND GENERAL INFORMATION			
332-015-500	3		SINGING POINT TESTS FOR VOICE-FREQUENCY			
			TRUNKS			
			<i>Part 4 Overall Active S.P. Tests—</i>	<i>MR</i>	<i>12M</i>	
			<i>2-Wire RPTR Equipped</i>			
			<i>Trunks Arranged for Switching</i>			
332-1			AMPLIFIER TYPE TELEPHONE REPEATERS			
			22 TYPE REPEATERS			
332-100-300	3		22A1, 22A1 (HE), D-87797 AND 22A2 TELEPHONE			
& ADDENDUM	2		REPEATERS—OPERATING REQUIREMENTS AND			
			LIMITS			
			TABLE V SUMMARY OF TESTS			
			<i>Individual Grid Battery Voltage</i>	<i>MR</i>	<i>3M</i>	
			<i>Filament Current—Nonregulated Battery With</i>	<i>MR</i>	<i>M</i>	
			<i>Ballast Lamp</i>			
			FILAMENT ACTIVITY			
			<i>Dome Type Tubes</i>	<i>MR</i>	<i>6M</i>	
			<i>Spherical Type Tubes</i>	<i>MR</i>	<i>3M</i>	
			1000-HZ GAIN			
			<i>Dome Type Tubes</i>	<i>MR</i>	<i>6M</i>	
			<i>Spherical Type Tubes</i>	<i>MR</i>	<i>3M</i>	
			44 TYPE REPEATERS			
332-101-300	5		OPERATING REQUIREMENTS AND LIMITS			
& ADDENDUM	1					
			TABLE VIII SUMMARY OF TESTS			
			GRID POTENTIAL			
		2.02	<i>Individual Grid Battery</i>	<i>MR</i>	<i>3M</i>	
			FILAMENT CURRENT			
		2.04	<i>Not Adjusted By Reference Voltage—</i>	<i>MR</i>	<i>M</i>	
			<i>With Ballast Lamp</i>			
			FILAMENT ACTIVITY			
		2.07	<i>Dome Type Tubes</i>	<i>MR</i>	<i>6M</i>	
			<i>Spherical Type Tubes</i>	<i>MR</i>	<i>3M</i>	
			1000-HZ GAIN			
		2.10	<i>Dome Type Tubes</i>	<i>MR</i>	<i>6M</i>	
			<i>Spherical Type Tubes</i>	<i>MR</i>	<i>3M</i>	
			V1 TYPE REPEATERS			

EQUIPMENT TEST LIST						
B.S.P.	I S S	TEST OR REQT.	EQUIPMENT AND WORK DESCRIPTION	CLASS	FREQ.	JOB NO.
332-102-500	4		TESTS AND ADJUSTMENTS			
& ADDENDUM	2					
			<i>Part 4(B) Heater Current—Non-</i>	<i>MR</i>	<i>3M</i>	
			<i>Regulated Battery With Ballast Lamp</i>			
			Part 4(C) Cathode Activity			
			10V Tubes	<i>MR</i>	<i>6M</i>	
			9V Tubes	<i>MR</i>	<i>12M</i>	
			V3 REPEATERS			
332-103-500	3		TESTS AND ADJUSTMENTS ON V3 AMPLIFIER			
			<i>Part 6(A) Tube Test—Space Current History</i>	<i>MR</i>	<i>6M</i>	
			<i>Method</i>			
332-2			NEGATIVE IMPEDANCE TELEPHONE REPEATERS			
			E TYPE REPEATERS			
332-200-501	3		ELECTRON TUBES—VISUAL CHECKS, MEAS AND ADJ OF APPLIED VOLTAGES	<i>MR</i>	<i>6M</i>	
332-206-510	2		J98619A SUBSCRIBER LOOP—MESSAGE AND SIGNAL REPEATER—TESTS AND ADJUSTMENTS	<i>MR</i>	*	
332-207-311	1		E7 REPEATERS—MAINTENANCE			
			<i>Table 1 Check for Singing and Noise</i>	<i>MR</i>	<i>6M</i>	
			<i>Return Loss</i>	<i>MR</i>	<i>12M</i>	
332-4			PIL WIRE REGS, ECHO SUPRS, TOLL CONF GRP CKTS, AUX EQPT ECHO SUPRS			
332-410-500	5		1A SUPPRESSOR AND DISABLER—TESTS AND ADJUSTMENTS			
		<i>Part 4</i>	<i>Circuit Order &amp; Periodic Tests &amp; Reqmts</i>	<i>MW</i>	<i>6M</i>	
332-412-500	1		3A ECHO SUPPRESSOR—LINEUP	<i>MR</i>	<i>6M</i>	
332-412-502	1		3B ECHO SUPPRESSOR—LINEUP	<i>MR</i>	<i>6M</i>	
			1A COMPANDOR			
332-420-500	2		TESTING METHODS			
		<i>3.04</i>	<i>Heater Current—Nonregulated</i>	<i>MR</i>	<i>M</i>	
		<i>3.08(3)</i>	<i>Battery With Ballast Lamp</i>			
		<i>3.08(7)</i>	<i>Cathode Activity</i>	<i>MR</i>	<i>3M</i>	
		<i>3.09</i>	<i>Oven Temperature</i>	<i>MR</i>	<i>3M</i>	
			<i>Part 4(A) Gain Load—Compressor—Control</i>	<i>MR</i>	<i>12M</i>	
			<i>Point B, Control Point C, and Control Point D</i>			
			<i>Part 4(B) Gain Load—Expander—Control</i>	<i>MR</i>	<i>12M</i>	
			<i>Point B, Control Point C, and Control Point D</i>			

EQUIPMENT TEST LIST						
B.S.P.	I S S	TEST OR REQT.	EQUIPMENT AND WORK DESCRIPTION	CLASS	FREQ.	JOB NO.
332-420-500	2		(Cont)			
			TOLL CONFERENCE GROUPING CIRCUITS—6			
			OUTLET ARRANGEMENT WITH REPEATERS			
332-430-500	3		TESTS & ADJ—SW PAD NON-GAIN			
			AND CORD CKT RPTR OFFICES 1000-HZ MEAS			
		3.02	Repeater Gain—Each Repeater	MR	M	
		3.03	Switching Pad	MR	12M	
		3.04	Overall Circuit—Loss Btwn Each 2 Legs	MR	M	
			With Both Pads—Disabled Condition			
		3.05	Loss Between Each 2 Legs of The Circuit With	MR	3M	
			Both Pads In			
			OVERALL CIRCUIT—ONE-WAY CONDITION			
		3.06	Loss From Incoming Leg to Each Outgoing With	MR	3M	
			Both Pads In			
		3.06	Loss From Any Outgoing Leg to Each of the	MR	3M	
			Other Legs			
			GAIN-FREQUENCY MEASUREMENTS			
		3.07	Each Repeater	MR	12M	
			ACTIVE SINGING POINT TESTS			
		3.17	Each Leg of Grouping Circuit—Pad Out—With	MR	3M	
			Other Legs in Idle Drop Condition			
332-431-300	2		PERIODIC TESTS AND ADJUSTMENTS—SIX			
			OUTLET V REPEATERED VOLCAS ARRANGEMENT			
			TABLE A—SUMMARY OF TESTS			
		(A)	Repeaters			
			1. 1000-Hz Gain	MR	4M	
			2. Cathode Activity	MR	2M	
		(C)	Miscellaneous Tests			
			3. VOLCAS Operating Sensitivity	MR	4M	
		(D)	Overall Grouping Circuit			
			1. 1000-Hz Loss Between Each Two Legs	MR	12M	
			2. Disable—1000-Hz Loss Between	MR	12M	
			Each Two Legs			
			3. One-Way Control—1000-Hz Loss	MR	12M	
			(a) From Talker Leg to Each Other Leg.			
			(b) From Listener Leg to Each Other Leg			
			4. Test Calls	MR	12M	

EQUIPMENT TEST LIST						
B.S.P.	I S S	TEST OR REQT.	EQUIPMENT AND WORK DESCRIPTION	CLASS	FREQ.	JOB NO.
332-432-500	2		TESTS AND ADJ—VOLCAS—22-TYPE			
			REPEATERS TOLL CONFERENCE GROUPING CIRCUITS			
		6.01	<i>Cathode Activity</i>	MR	2M	
		6.05	<i>Detector Plate Current—Idle Condition</i>	MR	2M	
		6.11	<i>Maximum Detector Plate Current</i>	MR	2M	
			OPERATE SENSITIVITY—1200-HZ PAD			
			CONTROL OFFICE			
		7.14	<i>EW (Drop)</i>	MR	2M	
		7.20	<i>WE (Line)</i>	MR	2M	
		11.03	<i>Operate and Release Times</i>	MR	12M	
332-015-500	3		SINGING POINT TESTS FOR VOICE-FREQUENCY			
			TRUNKS			
			<i>Part 5 Tests for Locating Trouble</i>	TT		
332-1			AMPLIFIER TYPE TELEPHONE REPEATERS			
			22 TYPE REPEATERS			
322-100-500	2		22A1, D-87797 and 22A2 TELEPHONE	TT		
& ADDENDUM	3		REPEATERS—TESTS AND ADJUSTMENTS			
332-100-501	2		22 TYPE TELEPHONE REPEATERS ARRANGED FOR	TT		
& ADDENDUM	1		AC OPERATION—TESTS AND ADJUSTMENTS			
			44 TYPE REPEATERS			
332-101-500	2		TESTS AND ADJUSTMENTS	TT		
& ADDENDUM	1					
			V1 TYPE REPEATERS			
332-102-500	4		TESTS AND ADJUSTMENTS	TT		
& ADDENDUM	2					
			V3 REPEATERS			
332-103-500	3		<i>TESTS AND ADJUSTMENTS ON V3 AMPLIFIER</i>	TT		
332-103-501	2		<i>V1 AND V3 TELEPHONE REPEATERS—</i>	TT		
			<i>ASSOC EQPT TESTS AND ADJ</i>			
332-103-502	2		<i>ADJUSTMENT OF BATTERY SUPPLY CIRCUITS</i>	TT		
			V4 REPEATERS			
332-104-501	2		<i>227 TYPE AMPLIFIERS—TESTS AND</i>	TT		
			<i>ADJUSTMENTS</i>			
332-2			NEGATIVE IMPEDANCE TELEPHONE REPEATERS			
332-200-101	1		<i>TAKING REPEATER OUT OF SERVICE AND</i>	TT		
			<i>ANALYZING TROUBLE</i>			
			E TYPE REPEATERS			

EQUIPMENT TEST LIST						
B.S.P.	I S S	TEST OR REQT.	EQUIPMENT AND WORK DESCRIPTION	CLASS	FREQ.	JOB NO.
332-2			(Cont)			
332-200-102	1		TAKING E1 OR E3 RPTR OUT OF SVC—PREPARING FOR TRBL ANALYSIS	TT		
332-200-103	1		TAKING E2 OR E23 REPEATER OUT OF SERVICE AND PREPARING FOR TROUBLE ANALYSIS	TT		
332-200-104	1		GEN PROCD—TRBL ANALY—LINE EQPD WITH E1, E2, E13, OR E23 RPTR—LITTLE GAIN, NO GAIN, OR POOR TRMSN IND	TT		
332-200-105	1		GEN PROCD—TRBL ANALY—LINE EQPD WITH E1, E2, E13, OR E23 RPTR—INSTAB OR EXCV GAIN IND	TT		
332-200-502	2		MONITORING TESTS	TT		
332-200-503	2		EFF GAIN MEAS—METHOD A— USING E RPTR TEST SET AND TEST OSC	TT		
332-200-504	2		EFF GAIN MEAS—METHOD B— USING E RPTR TEST SET AND NOISE GEN	TT		
332-200-505	2		EFF GAIN MEAS—METHOD C— USING 2G RPTR TEST SET AND TEST SET OSC	TT		
332-200-506	2		EFF GAIN MEAS—METHOD D— USING 2G RPTR TEST SET AND NOISE GEN	TT		
332-200-507	1		EFF GAIN MEAS—METHOD E—MEAS GAIN PEAKS AND VALLEYS—USING E RPTR TEST SET	TT		
332-200-508	1		EFF GAIN MEAS—METHOD F—MEAS OF GAIN PEAKS AND VALLEYS—USING 2G RPTR TEST SET	TT		
			E TYPE REPEATERS			
332-200-509	2		CIRCUIT NET LOSS MEASUREMENT— METHOD A—USING TEST OSCILLATOR	TT		
332-200-510	2		CIRCUIT NET LOSS MEASUREMENT— METHOD B—USING A NOISE GENERATOR	TT		
332-200-511	3		GAIN TESTS RPTR IN STAND 600-OHM CKT— METHOD A—USING E RPTR TEST SET	TT		
332-200-512	2		GAIN TESTS RPTR IN STAND 600-OHM CKT— METHOD B—USING 2G RPTR TEST SET	TT		
332-206-100	1		E TYPE REPEATERS—E6 REPEATER			
& ADDENDUM	1					
			CHAPTER VII Maintenance	TT		
332-3			SPECIAL SERVICES LINES — LINEUP			

EQUIPMENT TEST LIST						
B.S.P.	I S S	TEST OR REQT.	EQUIPMENT AND WORK DESCRIPTION	CLASS	FREQ.	JOB NO.
332-3			(Cont)			
332-310-501	1		<i>SPECIAL SERVICES OVERALL LINEUP—OFF- PREMISES STATION LINES WITH E6 REPEATERS</i>	<i>TT</i>		
332-310-551	1		<i>SPEC SERV LINK LINEUP—PBX TO CO—2-W LINK USING E6 RPTRS</i>	<i>TT</i>		
332-310-552	1		<i>SPEC SERV LINK LINEUP—CO TO CO—2-W LINK USING E6 RPTRS</i>	<i>TT</i>		
332-310-553	1		<i>SPEC SERV LINK LINEUP—CO TO STATION 2-W LINK USING E6 RPTRS</i>	<i>TT</i>		
332-4			<i>PIL WIRE REGS, ECHO SUPRS, TOLL CONF GRP CKTS, AND AUX EQPT PIL WIRE REGS</i>			
332-400-300	2		<i>4A AND 5A SYSTEM—INITIAL LINEUP AND MAINTENANCE PROCEDURES</i>	<i>TT</i>		
332-400-500	3		<i>4A SYSTEM—TESTS AND ADJUSTMENTS</i>	<i>TT</i>		
332-401-500	3		<i>5A SYSTEM—TESTS AND ADJUSTMENTS ECHO SUPPRESSORS</i>	<i>TT</i>		
332-410-301	1		<i>1A SUPPRESSOR—OPERATIONAL TEST FROM CIRCUIT TERMINALS</i>	<i>TT</i>		
332-410-500	5		<i>1A SUPPRESSOR AND DISABLER—TESTS AND ADJUSTMENTS</i>			
		<i>Part 5</i>	<i>Trouble Locating Tst &amp; Adjmts</i>	<i>TT</i>		
332-411-301	3		<i>Deleted</i>			
332-420-500	2		<i>TESTING METHODS TOLL CONFERENCE GROUPING CIRCUITS— 6 OUTLET ARRANGEMENT WITH REPEATERS</i>	<i>TT</i>		
332-430-500	3		<i>TESTS AND ADJ—SW PAD NON-GAIN AND CORD CKT RPTR OFFICES</i>	<i>TT</i>		
332-431-500	3		<i>SIX OUTLET V RPTRD ARRGMT—TESTS AND ADJ— VOLCAS—22 TYPE RPTRS TOLL CONF GRP CKTS</i>	<i>TT</i>		
			<i>TOLL CONFERENCE GROUPING CIRCUITS—6 OUTLET ARRANGEMENT WITHOUT REPEATERS</i>			
332-432-500	2		<i>TESTS AND ADJ—VOLCAS FOR 22-TYPE RPTRS USED WITH TOLL CONF GRP CKTS</i>	<i>TT</i>		
			<i>AUXILIARY EQUIPMENT</i>			
332-450-500	1		<i>TESTING AND BALANCING COMPOSITE SETS AND ASSOCIATED LINE OR HYBRID TRANSFORMERS</i>	<i>TT</i>		