EQUIPMENT TEST LIST

SIGNALING CIRCUITS

CONTENTS PAGE

1. GENERAL

1.01 This section provides an index and access system to locate the standard tests applicable to equipment listed in the preceding table of contents. Test classification and frequency of periodic routine are also provided.

1.02 This Equipment Test List (ETL) is reissued to incorporate changes which are indicated by an arrow to the left of each line which has been changed.

1.03 Comments on this section should be made by following the instructions in Bell System Practices (BSP), Section 000-010-015.

1.04 Routine test information is arranged in the following order from left to right: Section number, issue/addendum, test letter or paragraph number, test title, test class, frequency, and the last space is for a locally assigned job number.

1.05 Section 010-300-011 provides Equipment Test List instructions.

NOTICE
Not for use or disclosure outside the
Bell System except under written agreement

2.0 SIGNALING CKT

2.1 SIGNALING CKT; MULTIFREQUENCY

SELECT ONLY ONE CATEGORY

SD-95391-01 CURRENT SUPPLY					
179-602-501 (10/0)	A	SWITCHING BATTERY ALARM	MW 12M	_____
	B	TRANSFER FEATURE	MW 12M	_____
	C	OSCILLATOR OUTPUT POWER	MW 12M	_____
	D	FREQUENCY TEST	MW 12M	_____
	E	PLATE BATTERY ALARM	MW 12M	_____
	F	ALARM TEST FOR GROUND ON OUTPUT LEADS	MW 12M	_____
	G	VOLTAGE ALARM	MW 12M	_____
	H	ALARM TEST FOR GROUND ON TRANSFER LEADS TO SENDERS	MW 12M	_____
SD-95867-01 SIGNAL GENERATOR				
179-603-501 (5/0)	A	COMPARATIVE FREQ TEST	MW 6M	_____
	B	OSCILLATOR OUTPUT VOLTAGE	MW 12M	_____
SD-99328-01 SIGNAL GENERATOR				
179-606-501 (2/0)	A	OSCILLATOR OUTPUT VOLTAGE TEST	MW 12M	_____
	B	FREQUENCY TEST	MW 12M	_____
SD-95086-01 PULSING SUPPLY				
179-604-501 (4/0)	A	SWITCHING BAT ALARM	MW 6M	_____
	B	TRANSFER FEATURE	MW 6M	_____
	C	FREQ TEST USING OSC UNDER TEST	MW 6M	_____
	E	OSCILLATOR OUTPUT VOLTAGE	MW 12M	_____
	G	PLATE BATTERY ALARM	MW 12M	_____
	H	ALARM TEST, GRD ONOUTPUT LEADS	MW 12M	_____
	I	VOLTAGE ALARM-USING AC VOLTMETER	MW 12M	_____
	K	CURRENT ALARM	MW 6M	_____
SD-95087-01 RECEIVING CKT WITH SENDER TST FR SD-68226-01				
179-610-701 (5/1)	A	MF RECEIVER ADJ-1000 HZ TONE	MW 6M	_____
	C	MF RCVR ADJ-4A & 4M SYSTEMS	MW 24M	_____
SD-95087-01 RECEIVING CKT WITH SENDER TST FR SD-68491-01				
179-610-701 (5/1)	A	MF RECEIVER ADJ-1000 HZ TONE	MW 6M	_____
	D	MF RCVR ADJ-4A & 4M SYSTEMS	MW 24M	_____
SD-95676-01 FILAMENT SUPPLY CKT				
179-612-501 (6/0)	A	ADJUST TRANSFER VOLTAGE	MW 6M	_____
	B	AUTO. TRANSFER FEATURE	MW 3M	_____
	C	ALARMS-FALSE GRD OR BAT IN FILTER CKT OF ASSOC MF RCV CKT	MW 6M	_____
	D	INDIVIDUAL FUSE ALARMS	MW 6M	_____
	E	FIL VOLTAGE AT MF RCVR	MW 6M	_____
SD-95536-01 RECEIVING CKT (TUBE TYPE) WITH ADJUSTING CKT SD-95664-01				

179-612-701 (10/0)	A	TEST OF OUTPUT LEVEL OF ADJUSTING CIRCUIT	MW 6M	_____
	B	ADJUSTMENT OF MF RCVR (ZP OPTION)	MW 6M	_____
	D	TEST OF PULSE CORRECTOR LEADS	MW 12M	_____
SD-95536-01 RECEIVING CKT (HIN TYPE) WITH ADJUSTING CKT SD-95664-01				
179-612-701 (10/0)	A	TEST OF OUTPUT LEVEL OF ADJUSTING CIRCUIT	MW 6M	_____
	C	TEST & ADJUSTMENT OF MF RCVR (ZQ OPTION)	MW 6M	_____
	D	TEST OF PULSE CORRECTOR LEADS	MW 12M	_____
SD-95536-01 RECEIVING CKT (TUBE TYPE) WITH ADJUSTING CKT SD-95779-01				
179-612-702 (9/0)	A	TEST OF OUTPUT FREQUENCY OF SD-95779-01 ADJUSTING CIRCUIT	MW 6M	_____
	B	TEST OF OUTPUT LEVEL OF SD-95779-01 ADJUSTING CIRCUIT	MW 6M	_____
	C	ADJUSTMENT OF MF RCVR	MW 6M	_____
	E	TEST OF PULSE CORRECTOR LEADS	MW 12M	_____
SD-95536-01 RECEIVING CKT (HIN TYPE) WITH ADJUSTING CKT SD-95779-01				
179-612-702 (9/0)	A	TEST OF OUTPUT FREQUENCY OF SD-95779-01 ADJUSTING CIRCUIT	MW 6M	_____
	B	TEST OF OUTPUT LEVEL OF SD-95779-01 ADJUSTING CIRCUIT	MW 6M	_____
	C	TEST & ADJUSTMENT OF MF RCVR	MW 6M	_____
	D	TEST OF PULSE CORRECTOR LEADS	MW 12M	_____
SD-95956 DUAL CHANNEL RECEIVER CIRCUIT				
179-615-701 (4/0)	A	SENSITIVITY CHECK OF 700 HZ	MW 6M	_____
	B	SENSITIVITY CHECK OF 1100 HZ	MW 6M	_____
SD-95087-01 RECEIVER CKT WITH SENDER TST FR SD-25364-01 OR SD25963-01				
179-610-701 (5/1)	A	MF RECEIVER ADJ-1000 HZ TONE	MW 6M	_____
	B	MF RECEIVER ADJ-CSBR TDM OFF.	MW 6M	_____
SD-26348-05 DUAL CHANNEL RECEIVER CKT				
179-615-505 (2/0)	A	700-HZ CHANNEL	MW 6M	_____
	B	1100-HZ CHANNEL	MW 6M	_____
	C	941-HZ CHANNEL	MW 6M	_____
	D	1336-HZ CHANNEL	MW 6M	_____
SD-95391 CURRENT SUPPLY WITHOUT TRANSFER AND ALARM				
179-602-502 (1/0)	A	OSCILLATOR OUTPUT LEVEL	MW 12M	_____
	B	FREQUENCY TEST	MW 12M	_____
SD-1C450-01 AUXILIARY				
179-602-503 (1/0)	A	OUTPUT POWER AND SUPPLY TRANSFER TEST	MW 6M	_____
	B	FREQUENCY TEST	MW 12M	_____
	C	ALARMS TEST	MW 6M	_____
TROUBLE TESTS				
SD-95867-01 SIGNAL GENERATOR				

179-603-501 (5/0)	C	FREQUENCY TEST	TT	_____
	D	OSCILLATOR OUTPUT VOLTAGE ADJ	TT	_____
SD-95086-01 PULSING SUPPLY				
179-604-501 (4/0)	D	FREQ TST USING VAR FREQ OSC	TT	_____
	J	VOLTAGE ALM USING TMS	TT	_____
	L	FREQ TST USING 72A FREQ METER	TT	_____
SD-99328-01 SIGNAL GENERATOR				
179-606-501 (2/0)	C	OSCILLATOR OUTPUT VOLTAGE ADJ	TT	_____
SD-95676-01 FILAMENT SUPPLY CKT				
176-612-501 (6/0)	F	REMOVING AC & EMG DC FIL SUPPLIES	TT	_____
2.2 SIGNALING CKT; DIRECT CURRENT				
SELECT ONLY ONE CATEGORY				
SD-98130-01 LOOP SIGNALING CONVERTER				
179-721-501 (3/0)	A	IN-SVC TST OF LOGIC	MR 24M	_____
	B	43A1 CHAN TERM LINE-UP	MR 24M	_____
	C	TEST OF TRANSMISSION PATH	MR 24M	_____
	D	TEST OF TIMERS	MR 24M	_____
	E	OUT-OF-SVC TST OF LOGIC	MR 24M	_____
SD-98131-01 LOOP SIGNALING CONVERTER				
179-722-501 1-E	A-E	TESTS	MR 24M	_____
TROUBLE TESTS				
M LEAD PULS CORR				
179-724-501 (2/0)	A	SUPPLY VOLTAGE TEST	TT	_____
	B	PERFORMANCE TESTS--USING 2B TEST SET	TT	_____
	C	PERFORMANCE TEST--USING 4A TEST SET	TT	_____
2.3 SIGNALING CKT; SIG CONV SD-5G149-01				
FOR ALL UNITS				
179-300-501 (1/0)	A	AUTOMATIC	MW 6M	_____
2.4 SIGNALING CKT; SUP CKT SD-56305				
SELECT ONLY ONE CATEGORY				
TRANSFER CIRCUIT PROVIDED				
179-301-501 (3/0)	A	OUTPUT POWER-WITH TR CKT	MW 6M	_____
	D	FILAMENT ACTIVITY-TR CKT PROVIDED	MW 6M	_____
	F	OUTPUT FREQUENCY-72A WITH TR CKT	MW 6M	_____
	J	MANUAL LOAD TRANSFER	MW 6M	_____
	K	AUTOMATIC LOAD TRANSFER	MW 6M	_____
	L	DOUBLE FAILURE	MW 6M	_____
	M	LOAD ALARM	MW 6M	_____
LOAD TRANSFER JACK PROVIDED				
179-301-501 (3/0)	B	OUTPUT POWER-WITH LOAD JACKS	MW 6M	_____
	E	FILAMENT ACTIVITY-TR CKT NOT PROVIDED	MW 6M	_____

179-301-501 (3/0)	G	OUTPUT FREQUENCY-72A WITH LOAD TR JACKS	MW 6M	_____
	J	MANUAL LOAD TRANSFER	MW 6M	_____
	K	AUTOMATIC LOAD TRANSFER	MW 6M	_____
	L	DOUBLE FAILURE	MW 6M	_____
	M	LOAD ALARM	MW 6M	_____
NO TRANSFER CIRCUIT OR LOAD JACKS PROVIDED				
179-301-501 (3/0)	C	OUTPUT POWER-NO TRCKT OR LOAD JACKS PROVIDED	MW 6M	_____
	E	FILAMENT ACTIVITY-TR CKT NOT PROVIDED	MW 6M	_____
	H	OUTPUT FREQUENCY-72A WITHOUT TR CKT OR LOAD JK	MW 6M	_____
	J	MANUAL LOAD TRANSFER	MW 6M	_____
	K	AUTOMATIC LOAD TRANSFER	MW 6M	_____
	L	DOUBLE FAILURE	MW 6M	_____
	M	LOAD ALARM	MW 6M	_____
2.5 SIGNALING CKT; OSCILLATOR SUP. SD-98081,-91,-92				
FOR ALL UNITS				
179-305-501 (5/0)	A	OSCILLATOR OUTPUT LEVEL	MW 12M	_____
	B	MANUAL TRANSFER OF LOAD	MW 12M	_____
	C	2400- OR 2600-CYCLE AUTO. TR OF LOAD	MW 12M	_____
	D	2000-HERTZ AUTO TR OF LOAD	MW 12M	_____
	E	DOUBLE FAILURE	MW 12M	_____
	F	LOAD TROUBLE ALARM	MW 12M	_____
	G	2400- OR 2600-CYCLE OUTPUT FREQUENCY	MW 12M	_____
	H	2000-HERTZ OUTPUT FREQUENCY	MW 12M	_____
2.6 SIGNALING CKT; TONE SUPPLY SD-1C224				
FOR ALL UNITS				
179-360-501 (3/0)	A	OUTPUT POWER LEVEL	MW 12M	_____
	B	OUTPUT FREQUENCY	MW 12M	_____
	C	LOCAL TRANSFER	MW 12M	_____
TROUBLE TESTS				
179-360-501 (3/0)	D	DOUBLE FAILURES	TT	_____
2.7 SIGNALING CKT; E TYPE SIGNLAING SYSTEM				
2B SIGNALING TEST SET J64730				
FOR ALL UNITS				
179-302-501 (4/1)	A1/2	LP PULSING WITH ADAPTER-METHOD 1 OR METHOD 2	MR 12M	_____
	B1/2	PULSING ON M LEAD-METHOD 1 OR METHOD 2	MR 12M	_____
OPTIONAL FEATURES				
E&M SIGNALING				
179-302-501 (4/1)	C	SUPERVISORY AND MISCELLANEOUS TESTS	MR 12M	_____
TROUBLE TESTS				
179-315-501 (4/0)	G	RELAY PULSING	TT	_____

179-316-502 (6/2)	A	PULSING OF TRANSMITTER M RELAY	TT	_____
	B	HOLD OF HL RELAY AND FOR ALL E2B, ALL E3B, OR ALL E4B UNITS, RELEASE OF CO RELAY	TT	_____
	C	TRANSMITTER VOICE PATH AND TRANSMITTED TONE LEVEL	TT	_____
	D	VOICE AMPLIFIER CUTOFF TRANSISTOR	TT	_____
	E	GAIN OF RECEIVER VOICE AMPLIFIER AND INSERTION OF BAND-ELIMINATION FILTER	TT	_____
	F	OPERATE SENSITIVITY OF RECEIVER SIGNALING AMPLIFIER	TT	_____
	G	TIMING OF RECEIVING R, RG, AND G RELAY	TT	_____
	H	RECEIVING GUARD ACTION AND 2-WIRE CONTROLS	TT	_____
	I	FINAL ADJUSTMENT OF RECEIVER SENSITIVITY	TT	_____
179-318-502 (3/1)	A	PULSING OF TRANSMITTER M RELAY	TT	_____
	B	HOLD OF HL RELAY	TT	_____
	C	TRANSMITTED TONE LEVEL	TT	_____
	D	BIAS OF TRANSISTOR Q10	TT	_____
	E	TEST OF 4-WIRE TERMINATING CIRCUIT, GAIN OF RECEIVER VOICE AMPLIFIER, BLOCKING OF AMPLIFIER, AND INSERTION OF BAND-ELIMINATION FILTER	TT	_____
	F	OPERATE SENSITIVITY OF RECEIVER SIGNALING AMPLIFIER	TT	_____
	G	TIMING OF RECEIVER R, RG, AND G RELAY	TT	_____
	H	RECEIVER GUARD ACTION	TT	_____
179-320-502 (8/0)	A	PULSING OF TRANSMITTER A RELAY	TT	_____
	B	HOLD OF B RELAY	TT	_____
	C	TRANSMITTER TONE LEVEL	TT	_____
	D	CUTOFF VOLTAGE OF Q9 TRANSISTOR	TT	_____
	E	TEST OF 4-WIRE TERMINATING CIRCUIT, GAIN OF RECEIVER VOICE AMPLIFIER, BLOCKING OF AMPLIFIER, AND INSERTION OF BAND-ELIMINATION NETWORK	TT	_____
	F	OPERATE SENSITIVITY OF RECEIVER SIGNALING AMPLIFIER	TT	_____
	G	TIMING OF RECEIVER R RELAY	TT	_____
	H	RECEIVER GUARD ACTION	TT	_____
179-322-502 (6/1)	A	OPERATION OF TRANSMITTER CS RELAY AND OPERATION OF CS1 AND HL RELAYS IN E2D AND E3D UNITS	TT	_____
	B	TRANSMITTED TONE LEVEL	TT	_____
	C	CUTOFF VOLTAGE OF Q9 TRANSISTOR	TT	_____
	D	TEST OF 4-WIRE TERMINATING CIRCUIT, GAIN OF RECEIVER VOICE AMPLIFIER, AND BLOCKING OF AMPLIFIER	TT	_____
	E	OPERATE SENSITIVITY OF RECEIVER SIGNALING AMPLIFIER	TT	_____
	F	TIMING OF RECEIVER R AND RG RELAYS	TT	_____
	G	RECEIVER GUARD ACTION	TT	_____

179-327-501	(1/0)	A	ADJUSTMENT OF TRANSMITTER M RELAY	TT	_____
		B	HOLD OF HL RELAY AND RELEASE OF CO RELAY	TT	_____
		C	TRANSMITTER VOICE PATH AND TRANSMITTED TONE LEVEL	TT	_____
		D	VOICE AMPLIFIER CUTOFF TRANSISTOR	TT	_____
		E	GAIN OF RECEIVER VOICE AMPLIFIER AND INSERTION OF BAND-ELIMINATION FILTER	TT	_____
		F	OPERATE SENSITIVITY OF RECEIVER SIGNALING AMPLIFIER	TT	_____
		G	TIMING OF RECEIVING R, RG, AND G RELAYS	TT	_____
		H	RECEIVER GUARD ACTION	TT	_____
179-328-501	(6/0)	B	VOICE AMPLIFIER CUTOFF TRANSISTOR	TT	_____
		F	TIMING OF RECEIVER R AND RG RELAYS	TT	_____
179-328-502	(6/0)	E	FORWARD DISCONNECT DELAY CKT TST	TT	_____
179-330-501	(6/0)	A	PULSING OF TRANSMITTER A RELAY	TT	_____
		F	VOICE AMPLIFIER CUTOFF TRANSISTOR	TT	_____
179-353-501	(3/1)	A	PULSING OF TRANSMITTER A RELAY	TT	_____
		C	HOLD OF B RELAY	TT	_____
		H	TIMING OF R AND RG RELAY	TT	_____
		J	VOICE AMPLIFIER CUTOFF TRANSISTOR	TT	_____
179-354-501	(3/0)	A	OPERATION OF TRANSISTOR CS, CS1, AND HL RELAYS	TT	_____
		F	TIMING OF RECEIVER R AND RG RELAYS	TT	_____
		H	VOICE AMPLIFIER CUTOFF TRANSISTOR	TT	_____
4A SIGNALING TEST SET J94743					
FOR ALL UNITS					
179-302-502	(1/0)	A	PULSING ON LOOP	MR 12M	_____
		B	PULSING ON M LEAD	MR 12M	_____
OPTIONAL FEATURES					
E&M SIGNALING					
179-302-502	(1/0)	C	SUPERVISORY AND MISCELLANEOUS TESTS	MR 12M	_____
TROUBLE TESTS					
179-315-501	(4/0)	H	M RELAY PULSING	TT	_____
179-316-503	(2/0)	A	PULSING OF TRANSMITTER M RELAY	TT	_____
		B	HOLDING OF HL RELAY AND FOR ALL E2B, E3B, AND E4B UNITS, RELEASE OF CO RELAY	TT	_____
		C	TRANSMITTER VOICE PATH AND TRANSMITTED TONE LEVEL	TT	_____
		D	GAIN OF RECEIVER VOICE AMPLIFIER AND INSERTION OF BAND-ELIMINATION FILTER	TT	_____
		E	OPERATION SENSITIVITY OF RECEIVER SIGNALING AMPLIFIER	TT	_____
		F	TIMING OF RECEIVER R, RG, AND G RELAYS	TT	_____
		G	VOICE AMPLIFIER CUTOFF TRANSISTOR	TT	_____
		H	RECEIVER GUARD ACTION AND 2-WIRE CONTROL	TT	_____

◗	179-316-503 (2/0)	I	FINAL ADJUSTMENT OF RECEIVER SENSITIVITY	TT	_____
◗	179-318-503 (1/0)	A	PULSING OF TRANSMITTER M RELAY	TT	_____
◗		B	HOLD OF HL RELAY	TT	_____
◗		C	TRANSMITTED TONE LEVEL	TT	_____
◗		D	TEST OF 4-WIRE TRANSMITTING CIRCUIT, GAIN OF RECEIVER VOICE AMPLIFIER, BLOCKING OF AMPLIFIER, AND INSERTION OF BAND-ELIMINATION NETWORK	TT	_____
◗		E	OPERATE SENSITIVITY OF RECEIVER SIGNALING AMPLIFER	TT	_____
◗		F	TIMING OF RECEIVER R, RG, AND G RELAYS	TT	_____
◗		G	VOICE AMPLIFIER CUTOFF TRANSISTOR	TT	_____
◗		H	RECEIVER GUARD ACTION	TT	_____
◗	179-320-503 (1/0)	A	PULSING OF TRANSMITTER A RELAY	TT	_____
◗		B	HOLD OF B RELAY	TT	_____
◗		C	TRANSMITTER TONE LEVEL	TT	_____
◗		D	TEST OF 4-WIRE TERMINATING CIRCUIT, GAIN OF RECEIVER VOICE AMPLIFIER, BLOCKING OF AMPLIFIER, AND INSERTION OF BAND-ELIMINATION FILTER	TT	_____
◗		E	OPERATE SENSITIVITY OF RECEIVER SIGNALING AMPLIFIER	TT	_____
◗		F	TIMING OF RECEIVER R RELAY	TT	_____
◗		G	VOICE AMPLIFIER CUTOFF TRANSISTOR	TT	_____
◗		H	RECEIVER GUARD ACTION	TT	_____
◗	179-322-503 (1/0)	A	OPERATION OF TRANSMITTER CS RELAY AND OPERATION OF CS1 AND HL RELAYS IN E2D AND E3D UNITS	TT	_____
◗		B	TRANSMITTED TONE LEVEL	TT	_____
◗		C	TEST OF 4-WIRE TERMINATING CIRCUIT, GAIN OF RECEIVER VOICE AMPLIFIER, AND BLOCKING AMPLIFIER	TT	_____
◗		D	OPERATE SENSITIVITY OF RECEIVER SIGNALING AMPLIFIER	TT	_____
◗		E	TIMING OF RECEIVER R AND RG RELAYS	TT	_____
◗		F	VOICE AMPLIFIER CUTOFF TRANSISTOR	TT	_____
◗		G	RECEIVER GUARD ACTION	TT	_____
◗	179-327-502 (1/0)	A	ADJUSTMENT OF TRANSMITTER M RELAY	TT	_____
◗		B	HOLD OF HL RELAY AND RELEASE OF CO RELAY	TT	_____
◗		C	TRANSMITTER VOICE PATH AND TRANSMITTED TONE LEVEL	TT	_____
◗		D	GAIN OF RECEIVER VOICE AMPLIFIER AND INSERTION OF BAND-ELIMINATION FILTER	TT	_____
◗		E	OPERATE SENSITIVITY OF RECEIVER SIGNALING AMPLIFIER	TT	_____
◗		F	TIMING OF RECEIVER R, RG, AND G RELAYS	TT	_____
◗		G	VOICE AMPLIFIER CUTOFF TRANSISTOR	TT	_____
◗		H	RECEIVER GUARD ACTION	TT	_____
◗	179-328-501 (6/0)	C	VOICE AMPLIFIER CUTOFF TRANSISTOR	TT	_____

179-328-501 (6/0)	G	TIMING OF RECEIVER R AND RG RELAYS	TT	_____
179-328-502 (6/0)	F	FORWARD DISCONNECT DELAY CKT TST	TT	_____
179-330-501 (6/0)	B	PULSING OF TRANSMITTER A RELAY	TT	_____
	G	VOICE AMPLIFIER CUTOFF TRANSISTOR	TT	_____
179-353-501 (3/1)	B	PULSING OF TRANSMITTER A RELAY	TT	_____
	D	HOLD OF B RELAY	TT	_____
179-354-501 (3/0)	B	OPERATION OF TRANSMITTER CS, CS1, AND HL RELAYS	TT	_____
	G	TIMING OF RECEIVER R AND RG RELAYS	TT	_____
	I	VOICE AMPLIFIER CUTOFF TRANSISTOR	TT	_____
TROUBLE TESTS				
SD-95877 TEST SET				
179-314-501 (5/0)	A	TRANSMITTED TONE LEVEL	TT	_____
	B	RECEIVED TONE LEVEL	TT	_____
	C	INSERTION OF BAND-ELIMINATION NETWORK OR BLOCKING OF VOICE AMPLIFIER	TT	_____
	D	OVERALL RECEIVER OPERATION	TT	_____
	E	CIRCUIT MONITORING	TT	_____
	F	SIGNALING MONITORING	TT	_____
SD-96519 TEST SET				
179-314-501 (5/0)	A	TRANSMITTER TONE LEVEL	TT	_____
	B	RECEIVED TONE LEVEL	TT	_____
	C	INSERTION OF BAND-ELIMINATION NETWORK OR BLOCKING OF VOICE AMPLIFIER	TT	_____
	D	OVERALL RECEIVER OPERATION	TT	_____
	E	CIRCUIT MONITORING	TT	_____
	F	SIGNAL MONITORING	TT	_____
179-315-501 (4/0)	A	SIGNALING TONE SUPPLY LEVEL	TT	_____
	B	SIGNALING TONE SUPPLY FREQUENCIES	TT	_____
	C	TEST AMPLIFIER GAIN	TT	_____
	D	MONITORING AMPLIFIER GAIN	TT	_____
	E	MIXING PAD LOSS	TT	_____
	F	CO KEY	TT	_____
	I	20-HZ SIGNALING LEVEL	TT	_____
	J	2000 HZ BAND ELIMINATION FILTER	TT	_____
	K	CONTROL CIRCUITS	TT	_____
179-324-501 (6/0)	A	TRANSMITTED TONE LEVEL	TT	_____
	B	CUTOFF CURRENT Q6 OR Q7 TRANSISTOR	TT	_____
	C	GAIN OF RECEIVER VOICE AMPLIFIER BLOCKING OF SIGNAL TONE, AND 4-WIRE TERMINATING CIRCUIT	TT	_____
	D	OPERATE SENSITIVITY OF RECEIVER SIGNALING AMPLIFIERS	TT	_____
	E	M RELAY AND RELAY SEQUENCE CIRCUIT OPERATION TEST	TT	_____

◗	179-324-501	(6/0)	F	RECEIVER GUARD ACTION	TT	_____
◗	179-324-502	(3/1)	A	TRANSMITTED TONE LEVEL	TT	_____
◗			B	RECEIVED TONE LEVEL	TT	_____
◗			C	MONITORING	TT	_____
◗	179-326-501	(5/0)	A	TRANSMITTED TONE LEVEL AND OPERATION OF CT RELAY CIRCUIT	TT	_____
◗			B	CUTOFF CURRENT OF Q5 OR Q57 TRANSISTOR	TT	_____
◗			C	GAIN OF RECEIVER VOICE AMPLIFIER, BLOCKING OF SIGNAL TONE, AND 4-WIRE TERMINATING CIRCUIT	TT	_____
◗			D	OPERATE SENSITIVITY OF RECEIVER SIGNALING AMPLIFIER	TT	_____
◗			E	OPERATE TEST OF RP RELAY	TT	_____
◗			F	RECEIVER GUARD ACTION	TT	_____
◗	179-326-502	(3/1)	A	TRANSMITTED TONE LEVEL	TT	_____
◗			B	RECEIVED TONE LEVE	TT	_____
◗			C	MONITORING	TT	_____
◗	179-328-501	(6/0)	A	TRANSMITTED TONE LEVEL AND 20-HZ OPERATION	TT	_____
◗			D	FOUR-WIRE TERMINATING CIRCUIT AND RECEIVER VOICE AMPLIFIER	TT	_____
◗			E	OPERATE SENSITIVITY OF RECEIVER AMPLIFIER	TT	_____
◗			H	RECEIVER GUARD ACTION	TT	_____
◗	179-328-502	(6/0)	A	TRANSMITTED TONE LEVEL	TT	_____
◗			B	OSCILLATOR OUTPUT	TT	_____
◗			C	RINGING DETECTOR ACTION	TT	_____
◗			D	TRANSMISSION TEST	TT	_____
◗	179-330-501	(6/0)	C	TRANSMITTED TONE LEVEL	TT	_____
◗			D	4-WIRE TERMINATING CIRCUIT AND RECEIVER VOICE AMPLIFIER	TT	_____
◗			E	SENSITIVITY OF RECEIVER AMPLIFIER AND TIMING OF RECEIVER R RELAY	TT	_____
◗			H	RECEIVER GUARD ACTION	TT	_____
◗			I	RT RELAY OPERATION	TT	_____
◗	179-330-502	(3/1)	A	OPERATION OF AMP. & FREQ DETECTOR	TT	_____
◗			B	TRANSMISSION TEST	TT	_____
◗	179-332-501	(1/0)	A	TRANSMITTER VOICE PATH AND TRANSMITTED TONE LEVEL	TT	_____
◗			B	PULSING OF TRANSMITTER A RELAY	TT	_____
◗			C	TRANSMITTER CUT	TT	_____
◗			D	RING TRIP	TT	_____
◗			E	GAIN OF RECEIVER VOICE AMPLIFIER AND INSERTION OF BAND-ELIMINATION FILTER	TT	_____
◗			F	OPERATE SENSITIVITY OF RECEIVER SIGNALING AMPLIFIER	TT	_____
◗			G	20-HZ RING DETECTOR AND TIMING OF RECEIVER R RELAY	TT	_____
◗			H	HOLDOVER OF GS RELAY	TT	_____

179-332-501 (1/0)	I	TIMING OF GS RELAY	TT	_____
	J	RECEIVER GUARD ACTION	TT	_____
179-353-501 (3/1)	E	TRANSMITTED TONE LEVEL	TT	_____
	F	TEST OF 4-WIRE TERMINATING CIRCUIT, GAIN OF RECEIVING VOICE AMPLIFIER, BLOCKING OF AMPLIFIER, AND INSERTION OF BAND-ELIMINATION NETWORK	TT	_____
179-354-501 (3/0)	C	TRANSMITTED TONE LEVEL AND RMB CHECK	TT	_____
	D	TEST OF 4-WIRE TERMINATING CIRCUIT, GAIN OF RECEIVER VOICE AMPLIFIER, AND BLOCKING OF AMPLIFIER	TT	_____
	E	OPERATE SENSITIVITY OF RECEIVER SIGNALING AMPLIFIER	TT	_____
	J	RECEIVER GUARD ACTION	TT	_____
SD-56335 & SD-95874 TEST SET				
179-316-501 (3/2)	A	PULSING OF TRANSMITTER M RELAY	TT	_____
	B	HOLD OF HL RELAY AND ALSO FOR ALL E2B AND ALL E3B UNITS, RELEASE OF CO RELAY	TT	_____
	C	TRANSMITTER VOICE PATH AND TRANSMITTED TONE LEVEL	TT	_____
	D	VOICE AMPLIFIER CUTOFF TRANSISTOR	TT	_____
	E	GAIN OF RECEIVER VOICE AMPLIFIER AND INSERTION OF BAND-ELIMINATION FILTER	TT	_____
	F	OPERATE SENSITIVITY OF RECEIVER SIGNALING AMPLIFIER	TT	_____
	G	TIMING OF RECEIVER R, RG, AND G RELAY	TT	_____
	H	RECEIVER GUARD ACTION AND 2-WIRE CONTROLS	TT	_____
	I	FINAL ADJUSTMENT OF RECEIVER SENSITIVITY	TT	_____
179-318-501 (1/0)	A	PULSING TRANSMITTER OF M RELAY	TT	_____
	B	HOLD OF HL RELAY	TT	_____
	C	TRANSMITTED TONE LEVEL	TT	_____
	D	BIAS OF Q83 TRANSISTOR	TT	_____
	E	TEST OF 4-WIRE TERMINATING CIRCUIT, GAIN OF RECEIVER VOICE AMPLIFIER, BLOCKING OF AMPLIFIER AND INSERTION OF BAND-ELIMINATION NETWORK	TT	_____
	F	OPERATE SENSITIVITY OF RECEIVER SIGNALING AMPLIFIER	TT	_____
	G	TIMING OF RECEIVER R AND RG RELAY	TT	_____
	H	RECEIVER GUARD ACTION AND PERMANENT SIGNAL	TT	_____
179-320-501 (1/0)	A	PULSING OF TRANSMITTER A RELAY	TT	_____
	B	HOLD OF B RELAY	TT	_____
	C	TRANSMITTED TONE LEVEL	TT	_____
	D	BIAS OF Q64 TRANSMITTER	TT	_____
	E	TEST OF 4-WIRE TERMINATING CIRCUIT, GAIN OF RECEIVER VOICE AMPLIFIER, BLOCKING OF AMPLIFIER, AND INSERTION OF BAND-ELIMINATION FILTER	TT	_____
	F	OPERATE SENSITIVITY OF RECEIVER SIGNALING AMPLIFIER	TT	_____

179-320-501 (1/0)	G	TIMING OF RECEIVER R RELAY	TT	_____
	H	RECEIVER GUARD ACTION	TT	_____
179-322-501 (1/0)	A	OPERATION OF TRANSMITTER CS RELAY	TT	_____
	B	TRANSMITTED TONE LEVEL	TT	_____
	C	BIAS OF Q78 TRANSISTOR	TT	_____
	D	TEST OF 4-WIRE TERMINATING CIRCUIT, GAIN OF RECEIVER VOICE AMPLIFIER, AND BLOCKING OF AMPLIFIER	TT	_____
	E	OPERATE SENSITIVITY OF RECEIVER SIGNALING AMPLIFIER	TT	_____
	F	TIMING OF RECEIVER R AND RG RELAYS	TT	_____
	G	RECEIVER GUARD ACTION	TT	_____

2.8 SIGNALING CKT; SD-56202-02

FOR ALL UNITS

179-310-501 (1/0)	A	SENSITIVITY OF RECEIVER	MR 24M	_____
	B	PULSING PERFORMANCE OF RECEIVER	MR 24M	_____
	C	GUARD SENSITIVITY	MR 24M	_____
	D	TRANSMITTER PERFORMANCE	MR 24M	_____
	E	MOMENTARY HIGH LEVEL SIGNALING TONE TEST	MR 24M	_____
	F	TIMING OF CO RELAY	MR 24M	_____
	G	TIMING OF T RELAY	MR 24M	_____
	H	GAIN TEST OF VOICE AMPLIFIER	MR 24M	_____
	I	VOICE AMPLIFIER NETWORK INSERTION LOSS USING 13A TMS	MR 24M	_____
	J	VOICE AMPLIFIER NETWORK INSERTION LOSS USING 40B TMS	MR 24M	_____
	K	GAIN TEST OF BLOCKING AMPLIFIER	MR 24M	_____
	L	BLOCKING AMPLIFIER NETWORK INSERTION LOSS USING 13A TMS	MR 24M	_____
	M	BLOCKING AMPLIFIER NETWORK INSERTION LOSS USING 40B TMS	MR 24M	_____

2.9 SIGNALING CKT; SF 1600, 2000 HZ

SELECT ONLY ONE CATEGORY

SUPPLY CIRCUIT SD-55962-01

179-205-501 (4/0)	A	MANUAL TRANSFER OF LOAD	MW 6M	_____
	B	AUTOMATIC TRANSFER OF LOAD	MW 6M	_____
	C	DOUBLE FAILURE	MW 6M	_____
	D	LOAD TROUBLE ALARM	MW 6M	_____
	E	OUTPUT AMPLITUDE & REGULATION	MW 6M	_____
	F	OUTPUT FREQUENCY	MW 6M	_____

SUPPLY CIRCUIT SD-56239-01

179-206-501 (1/0)	A	OUTPUT POWER USING 13A TMS	MW 24M	_____
	B	OUTPUT POWER USING 40B TMS	MW 24M	_____
	C	OUTPUT FREQUENCY USING 72A FREQ M	MW 24M	_____

179-206-501 (1/0)	D	OUTPUT FREQUENCY USING BEAT FREQ METHOD	MW 24M	_____
	E	ALARMS	MW 24M	_____
SUPPLY CIRCUIT SD-55954-01 & SD-55954-02				
179-215-501 (4/0)	A	SENSITIVITY OF RECEIVER	MR 24M	_____
	B	PULSING PERFORMANCE OF RECEIVER	MR 24M	_____
	C	GUARD SENSITIVITY	MR 24M	_____
	D	TRANSMITTER PERFORMANCE	MR 24M	_____
	E	MOMENTARY HIGH LEVEL SIGNALING TONE	MR 24M	_____
	F	TIMING OF CO RELAY	MR 24M	_____
	G	TIMING OF T RELAY	MR 24M	_____
	H	TIMING OF RR RELAY	MR 24M	_____
	I	GAIN OF VOICE AMPLIFIER	MR 24M	_____
	J	VOICE AMPLIFIER NETWORK INSERTION LOSS	MR 24M	_____
	K	GAIN OF BLOCKING AMPLIFIER	MR 24M	_____
	L	BLOCKING AMPLIFIER NETWORK INSERTION LOSS	MR 24M	_____
	M	BLOCKING NETWORK INSERTION LOSS	MR 24M	_____
SUPPLY CIRCUIT SD-56202-01				
179-217-501 (3/0)	A	SENSITIVITY OF RECEIVER	MR 12M	_____
	B	PULSING PERFORMANCE OF RECEIVER	MR 12M	_____
	C	GUARD SENSITIVITY	MR 12M	_____
	D	TRANSMITTER PERFORMANCE	MR 12M	_____
	E	MOMENTARY HIGH LEVEL SIGNALING TONE TEST	MR 12M	_____
	F	TIMING OF CO RELAY	MR 12M	_____
	G	TIMING OF T RELAY	MR 12M	_____
	H	TIMING OF RR RELAY	MR 12M	_____
	I	GAIN TEST OF VOICE AMPLIFIER	MR 12M	_____
	J	VOICE AMP. NETWORK INSERTION LOSS 13A TMS	MR 12M	_____
	K	VOICE AMP. NETWORK INSERTION LOSS 40B TMS	MR 12M	_____
	L	GAIN TEST OF BLOCKING AMPLIFIER	MR 12M	_____
	M	BLOCKING AMPLIFIER NETWORK INSERTION LOSS TEST USING 13A TMS	MR 12M	_____
	N	BLOCKING AMPLIFIER NETWORK INSERTION LOSS TEST USING 40B TMS	MR 12M	_____
TROUBLE TESTS				
OVER-ALL PULS & SUPV TST USING 2B SIG TST SET ON E & M LDS				
179-210-501 (4/0)	A	IDLE CONDITION	TT	_____
	B	SEIZURE	TT	_____
	C	ANSWER SUPERVISION AND STOP PULSING	TT	_____
	D	START PULSING	TT	_____
	E	PULSING	TT	_____
	F	RERING	TT	_____
	G	LOCATING RERING TROUBLE	TT	_____

2.10 SIGNALING CKT; F TYPE					
2B SIGNALING TEST SET J64730					
FOR ALL UNITS					
	179-302-501 (4/1)	A1/2	LP PULSING WITH ADAPTER-METHOD 1 OR METHOD 2	MR 12M	_____
		B1/2	PULSING ON M LEAD-METHOD 1 OR METHOD 2	MW 12M	_____
OPTIONAL FEATURES					
E&M SIGNALING					
	179-302-501 (4/1)	C	SUPERVISORY AND MISCELLANEOUS TESTS	MR 12M	_____
4A SIGNALING TEST SET J94743					
FOR ALL UNITS					
	179-302-502 (1/0)	A	PULSING ON LOOP	MR 12M	_____
		B	PULSING ON M LEAD	MR 12M	_____
OPTIONAL FEATURES					
E&M SIGNALING					
	179-302-502 (1/0)	C	SUPERVISORY AND MISCELLANEOUS TESTS	MR 12M	_____
2.11 SIGNALING CKT; SD-56292-01					
TROUBLE TESTS					
USING TST CKT SD-56335-01					
	179-312-501 (4/0)	A	PULSING OF TRANSMITTER M RELAY	TT	_____
		B	RELEASE OF TRANSMITTER CO AND HL RELAYS	TT	_____
		C	TRANSMITTED TONE LEVEL	TT	_____
		D	GAIN OF RECEIVER VOICE AMPLIFIER AND INSERTION OF BAND ELIMINATION FILTER	TT	_____
		E	CUTOFF CURRENT OF R AND RF RELAYS AND SENSITIVITY OF RECEIVER	TT	_____
		F	OPERATION OF RF AND R RELAYS AND RELEASE OF G RELAY	TT	_____
		G	RECEIVER REGULATION	TT	_____
		H	RECEIVER GUARD ACTION, PERMANENT SIGNAL, AND 2-WIRE CONTROLS	TT	_____
		I	FINAL ADJUSTMENT OF RECEIVER SENSITIVITY	TT	_____
	179-312-502 (3/0)	A	OVERALL RECEIVER OPERATION	TT	_____
		B	RECEIVER TONE LEVEL	TT	_____
		C	INSERTION OF BAND-ELIMINATION NETWORK	TT	_____
		D	TRANSMITTED TONE LEVEL	TT	_____
		E	MONITORING	TT	_____
		F	SIGNAL MONITORING	TT	_____
2.12 SIGNALING CKT; TYPE B CX, DX, AND SX					
TROUBLE TESTS					
PULSE REPEATING TEST SET SD-64540-01					
	179-708-501 (1/0)	A	OVRL AND SECTNL PCT BRK PULSING AT SDG END USING PULS RPT AND PULSING TST ST	TT	_____
		B	OVRL AND SECTNL PCT BRK PULSING AT SDG END USING PULS RPT TST ST ONLY	TT	_____

179-708-501 (1/0)	C	OVRL PCT BRK MEASUREMENTS OF CONTS PULS AT RCVG END	TT	_____
	D	OVRL PCT BRK MEASUREMENTS OF 12 PPS AT RCVG END	TT	_____
	E	SECTNL PCT BRK MEASUREMENTS OF CONTS PULS AT RCVG END	TT	_____
	F	SECTNL PCT BRK MEASUREMENTS OF 12 PPS AT RCVG END	TT	_____
179-708-504 (1/0)	A	OVRL PCT BRK PULSING AT SDG END USING PULS RPT AND PULSING TST ST	TT	_____
	B	OVRL PCT BRK PULSING AT SDG END USING PULS RPT TST ST ONLY	TT	_____
	C	OVRL PCT BRK MEASUREMENTS OF CONTS PULS AT RCVG END	TT	_____
	D	OVRL PCT BRK MEASUREMENTS OF 12 PPS AT RCVG END	TT	_____
179-708-507 (1/1)	A	OVRL PCT BRK PULSING TST AT NO. 5 TOLL TST BD (TRMTG END) USING PULS RPT AND PULSING TST ST	TT	_____
	B	OVRL PCT BRK PULSING TST AT NO. 5 TOLL TST BD (TRMTG END) USING PULS RPT TST ST ONLY	TT	_____
	C	OVRL PCT BRK PULSING TST AT NO. 17B OR 18B TOLL TST BD (TRMTG END) USING PULS RPT AND PULSING TST ST	TT	_____
	D	OVRL PCT BRK PULSING TST ST AT NO. 17B OR 18B TOLL TST BD (TRMTG END) USING PULS RPT TST ST ONLY	TT	_____
	E	OVRL PCT BRK PULSING TST AT MULT TYPE NO. 8 TST AND CONT BD (TRMTG END) USING PULS RPT AND PULSING TST ST	TT	_____
	F	OVRL PCT BRK PULSING TST AT MULT TYPE NO. 8 TST AND CONT BD (TRMTG END) USING PULS RPT TST ST ONLY	TT	_____
	G	OVRL PCT BRK PULSING TST AT NONMULT TYPE NO. 8 TST AND CONT BD (TRMTG END) USING PULS RPT AND PULSING TST ST	TT	_____
	H	OVRL PCT BRK PULSING TST AT NONMULT TYPE NO. 8 TST AND CONT BD (TRMTG END) USING PULS RPT TST ST ONLY	TT	_____
	I	OVRL PCT BRK MEASUREMENTS OF CONTS PULS AT THE RCVG END	TT	_____
	J	OVRL PCT BRK MEASUREMENTS OF 12 PPS AT THE RCVG END	TT	_____
2B SIGNALING TEST SET J-64730				
179-708-502 (1/0)	A	OVRL AND SECTNL PCT BRK PULSING AT SDG END USING 2B TST ST	TT	_____
	B	OVRL PCT BRK MEASUREMENTS OF CONTS PULS AT RCVG END	TT	_____
	C	SECTNL PCT BRK MEASUREMENTS OF CONTS PULS AT RCVG END	TT	_____
179-708-505 (1/0)	A	OVRL PCT BRK PULSING (AT TRMTG END) USING 2B TST ST	TT	_____
	B	OVRL PCT BRK MEASUREMENTS OF CONTS PULS (AT RCVG END) USING 2B TST ST	TT	_____
179-708-508 (1/0)	A	OVRL PCT BRK PULSING TST AT NO. 5 TOLL TST BD (TRMTG END) USING 2B TST ST	TT	_____

◗	179-708-508 (1/0)	B	OVRL PCT BRK PULSING TST AT NO. 17B OR 18B TOLL TST BD (TRMTG END) USING 2B TST ST	TT	-----
◗		C	OVRL PCT BRK PULSING TST ST AT MULT TYPE NO. 8 TEST AND CONT BD (TRMTG END) USING 2B TST ST	TT	-----
◗		D	OVRL PCT BRK PULSING TST AT NONMULT TYPE NO. 8 TST AND CONT BD (TRMTG END) USING 2B TST ST	TT	-----
◗		E	OVRL PCT BRK MEASUREMENTS OF CONTS PULS AT THE RCVG END	TT	-----