

**EQUIPMENT TEST LIST**  
**CONNECTORS AND LINKS**  
**NO. 4A AND 4M TOLL SWITCHING SYSTEMS**

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**1. GENERAL**

**1.01** This section provides an index and information 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

SECTION 212-001-012

1.0 CONNECTORS-LINKS

1.1 CONNECTORS-LINKS; DECODER CONN

SELECT ONLY ONE CATEGORY

DECODER CONNECTOR-E.T.S.OFFICE

212-301-501	(9/0)	E	TIME-OUT AND ALARMS	MW 24M	-----
		F	FALSE GROUND	MW 24M	-----
		J	TRAFFIC LOCKOUT & ALARM (ET)	MW 24M	-----
		K	DECODER PREFERENCE AUXILIARY TEST	MW 24M	-----
		L	DECODER CONNECTOR-SENDER DATA VERIFICATION	MW 24M	-----
212-330-501	(10/0)	D	DECODER CONNECTOR	MW 24M	-----

DECODER CONNECTOR-CARD TRANSLATOR OFFICE

212-301-501	(9/0)	E	TIME-OUT AND ALARMS	MW 24M	-----
		F	FALSE GROUND	MW 24M	-----
		G	TRAFFIC LOCKOUT & ALARM	MW 24M	-----
		K	DECODER PREFERENCE AUXILIARY TEST	MW 24M	-----
212-330-501	(10/0)	D	DECODER CONNECTOR	MW 24M	-----

TROUBLE TESTS

212-301-501	(9/0)	A	SENDER PREF & LOCKOUT	TT	-----
		B	DECODER PREF & LOCKOUT (WITHIN CONN)	TT	-----
		C	DECODER PREF & LOCKOUT (BETWEEN CONN)	TT	-----
		D	DECODER BUSY TO CONN	TT	-----
		H	FALSE CONTINUITY, CROSSES & GROUND	TT	-----
		I	IN USE LAMPS AND TBL RCDR IDENT	TT	-----

1.2 CONNECTORS-LINKS; MARKER CONNECTOR

FOR ALL UNITS

212-330-501	(10/0)	B	MARKER CONNECTOR	MW 12M	-----
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TROUBLE TESTS

212-303-501	(8/1)	A	MARKER PREF & LOCKOUT (WITHIN CONNECTOR)	TT	-----
		B	MKR PREF & LOCKOUT (BETWEEN CONNECTORS)	TT	-----
		C	FALSE CONT OF MKR CONNECTOR RELAYS	TT	-----

1.3 CONNECTORS-LINKS; TRANSLATOR CONN

FOR ALL UNITS

212-305-501	(3/0)	C	FUSE ALARM-PAIRED AND NONPAIRED TRNSL CONN	MW 24M	-----
		D	FUSE ALARM-EMERGENCY TRNSL CONN	MW 24M	-----
212-330-501	(10/0)	H	EMERGENCY TRANSLATOR CONN	MW 24M	-----

OPTIONAL FEATURES

OFFICE WITH F.A.T.

212-330-501	(10/0)	G	FOREIGN AREA TRANSLATOR CONN	MW 24M	-----
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TROUBLE TESTS

212-305-501	(3/0)	A	DR PREF TRNSL LOCKOUT AND MAKE BUSY	TT	-----
		B	TRNSL BUSY PAIRED TRNSL CONN	TT	-----

◆	1.4 CONNECTORS-LINKS; TRUNK BLOCK CONN				
◆	FOR ALL UNITS				
◆	212-307-501 (7/0)	A	MAKE BUSY & ALARMS	MW 18M	-----
◆	212-330-501 (10/0)	I	TRUNK BLOCK CONNECTOR	MW 24M	-----
◆	TROUBLE TESTS				
◆	212-307-501 (7/0)	B	FALSE CONTINUITY, CROSSES AND GROUND	TT	-----
◆		C	200-TRUNK GROUP LOCKOUT FEATURE	TT	-----
◆	1.5 CONNECTORS-LINKS; CONTROLLER CONN				
◆	FOR ALL UNITS				
◆	212-309-501 (9/0)	F	ALARMS	MW 24M	-----
◆	TROUBLE TESTS				
◆	212-309-501 (9/0)	A	MAKE BUSY	TT	-----
◆		B	CONTROLLER PREF & LOCKOUT (WITHIN CONN)	TT	-----
◆		C	CONT PREF AND LOCKOUT (BETWEEN CONN)	TT	-----
◆		D	CONNECTOR GATE	TT	-----
◆		E	FALSE CONTINUITY, CROSSES & GROUND	TT	-----
◆		G	SDR LINK PR PREF CHAIN MONITOR TEST	TT	-----
◆	1.6 CONNECTORS-LINKS; SENDER LINK CONN				
◆	FOR ALL UNITS				
◆	212-313-501 (6/0)	E	TIME ALARM	MW 18M	-----
◆		G	TRAFFIC LOCKOUT	MR 12M	-----
◆	212-330-501 (10/0)	R	MISC CKT SENDER LINK FRAME	MR 12M	-----
◆	TROUBLE TESTS				
◆	212-313-501 (6/0)	A	FALSE CONT CROSSES AND GRD CA, CB, CC REL	TT	-----
◆		B	FALSE CONT CROSSES AND GROUNDS SDR LINK	TT	-----
◆		C	LINK CONNECTOR MAKE BUSY	TT	-----
◆		D	SWITCH GROUP MAKE BUSY	TT	-----
◆		F	LINK CONNECTOR PREFERENCE	TT	-----
◆		H	CROSS DETECTING GROUNDS	TT	-----
◆		I	SENDER LINK DELAY LAMPS	TT	-----
◆		J	ALL SENDERS BUSY	TT	-----
◆		K	TROUBLE LEADS	TT	-----
◆		L	LINK OPERATION	TT	-----
◆	212-313-502 (1/0)	A	FALSE CONTINUITIES, CROSSES & GNDS ON C(0-3) AND CC(0-3) RELAYS	TT	-----
◆		B	FALSE CONTINUITIES, CROSSES & GNDS ON OUTPUTSER LINKS	TT	-----
◆		C	A & B PREF CHANGE & MAKE-BUSY FEATURE	TT	-----
◆		D	SECONDARY SW MAKE-BUSY FEATURE	TT	-----
◆		E	TM TIMER TEST	TT	-----
◆		F	LINK CONN PREF CHAIN (WITHIN OPL)	TT	-----
◆		G	CONTR PREF & LOCKOUT (BETWEEN OPL)	TT	-----

SECTION 212-001-012

♦	212-313-502	(1/0)	H	TRAFFIC LOCKOUT	TT	-----
♦			I	LINK OPERATION TEST	TT	-----
♦	1.7 CONNECTORS-LINKS; INCOMING LINK					
♦	SELECT ONLY ONE CATEGORY					
♦	INCOMING LINK - STANDARD SWITCHES					
♦	212-315-501	(11/1)	A	ALARM AND MAKE BUSY	MR 12M	-----
♦	212-315-502	(2/0)	A	ALARM AND MAKE-BUSY	MR 12M	-----
♦	212-330-501	(10/0)	O	INCOMING AND OUTGOING LINK FRAMES	MR 12M	-----
♦	INCOMING LINK - MINIATURE SWITCHES					
♦	212-315-501	(11/1)	A	ALARM AND MAKE BUSY	MR 12M	-----
♦	212-315-502	(2/0)	A	ALARM AND MAKE-BUSY	MR 12M	-----
♦	212-330-501	(10/0)	P	MINIATURIZED INC LINK & CONN FRAME	MR 12M	-----
♦	TROUBLE TESTS					
♦	212-315-501	(11/1)	B	PROTECTIVE GROUNDS	TT	-----
♦			C	FALSE CONTINUITY CROSS & GROUND	TT	-----
♦			D	TEST OF MAKE-BUSY JACKS	TT	-----
♦			E	FRAME AND SELECT MAGNET LOCKOUT	TT	-----
♦			F	TEST OF OPERATING PATHS OF RELAYS	TT	-----
♦			G	CONT FALSE CONT OR CROSSES T- OR TA-REL	TT	-----
♦			H	FALSE CONT OR CROSSES "A" LKS AND JCTR	TT	-----
♦			I	FOR GRDS ON OPR PATH OF FRAME SEL MAG	TT	-----
♦	212-315-502	(2/0)	B	PROTECTIVE GROUNDS	TT	-----
♦			C	FALSE CONTINUITY, CROSSES, AND GROUNDS	TT	-----
♦			D	TEST OF MAKE-BUSY JACKS	TT	-----
♦			E	FRAME AND SELECT MAGNET LOCKOUT	TT	-----
♦			F	TEST OF OPERATING PATHS OF RELAYS	TT	-----
♦			G	CONTINUITY OR CROSSES OF T-,TA-,TB- RELAYS	TT	-----
♦			H	CROSSES ON "A" LINKS AND JUNCTORS	TT	-----
♦			I	FOREIGN GRDS ON OPER PATHS OF SELECT MAGNETS	TT	-----
♦			J	FIF ALARM & TRANSFER FEATURE	TT	-----
♦	1.8 CONNECTORS-LINKS; OUTGOING LINK					
♦	SELECT ONLY ONE CATEGORY					
♦	OUTGOING LINK - STANDARD SWITCHES					
♦	212-317-501	(10/0)	A	ALARM AND MAKE-BUSY	MR 12M	-----
♦	212-317-502	(3/0)	A	ALARM AND MAKE-BUSY	MR 12M	-----
♦	212-330-501	(10/0)	O	INCOMING AND OUTGOING LINK FRAMES	MR 12M	-----
♦	OUTGOING LINK - MINIATURE SWITCHES					
♦	212-317-501	(10/0)	A	ALARM AND MAKE-BUSY	MR 12M	-----
♦	212-317-502	(3/0)	A	ALARM AND MAKE-BUSY	MR 12M	-----
♦	212-330-501	(10/0)	Q	MINIATURIZED OG LINK & CONN FRAME	MR 12M	-----
♦	TROUBLE TESTS					

◆	212-317-501 (10/0)	B	PROTECTIVE GROUNDS	TT	-----
◆		C	FALSE CONTINUITY, CROSS, GRD	TT	-----
◆		D	TEST OF MB JACK MBH0-9 AND MBM0-1	TT	-----
◆		E	FRAME AND JUNCTOR LOCKOUT	TT	-----
◆		F	LINK CONNECTOR RELAY CHAIN	TT	-----
◆		G	FALSE CONT AND CROSSES "C" LINKS AND JCTR	TT	-----
◆	212-317-502 (3/0)	B	PROTECTIVE GROUNDS	TT	-----
◆		C	FALSE CONTINUITIES, CROSSES, AND GROUNDS	TT	-----
◆		D	TEST OF MAKE-BUSY JACKS	TT	-----
◆		E	FRAME LOCKOUT	TT	-----
◆		F	CONNECTOR RELAY CHAIN	TT	-----
◆		G	CROSSES ON "C" LINKS AND JUNCTORS	TT	-----
◆	<b>1.9 CONNECTORS-LINKS; REGISTER LINK</b>				
◆	<b>SELECT ONLY ONE CATEGORY</b>				
◆	<b>NON-CAMA</b>				
◆	212-319-501 (4/0)	D	REGISTER LINK ALARM	MR 12M	-----
◆	<b>CAMA</b>				
◆	212-319-501 (4/0)	D	REGISTER LINK ALARM	MR 12M	-----
◆	212-330-501 (10/0)	AH	REGISTER LINK ALARM-CAMA	MR 12M	-----
◆	<b>TROUBLE TESTS</b>				
◆	212-319-501 (4/0)	A	TRUNK PREFERENCE	TT	-----
◆		B	REGISTER PREFERENCE	TT	-----
◆		C	REGISTER AVAILABILITY	TT	-----
◆		E	PREF CHAIN ALARM VERIFICATION	TT	-----
◆	<b>1.10 CONNECTORS-LINKS; OUTPUTSER LINK</b>				
◆	<b>FOR ALL UNITS</b>				
◆	212-330-501 (10/0)	BV	OUTPUTSER LINK CIRCUIT	MW 12M	-----
◆	<b>1.11 CONNECTORS-LINKS; TRANSCEIVER</b>				
◆	<b>FOR ALL UNITS</b>				
◆	212-330-501 (10/0)	BY	TRANSCEIVER AND CONNECTOR CIRCUIT	MW 12M	-----
◆	<b>TROUBLE TESTS</b>				
◆	212-112-501 (1/0)	A	TRANSCEIVER TEST	TT	-----
◆		B	CP-5 OSCILLATOR OUTPUT CHECK	TT	-----
◆		C	FIELD ALIGNMENT OF CP-1, CP-2, & CP-4	TT	-----