

EQUIPMENT TEST LIST

COUNTERS, REGISTERS, AND TICKETERS

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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

15.0 CTR, REG, TKTR

15.1 CTR, REG, TKTR; COUNTERS

SELECT ONLY ONE CATEGORY

MAGNETIC COUNTERS KS-7495

030-310-701 (3/0)	2.01	(A) CLEAN COUNTER	MW 12M	-----
	2.02	(B) LUBRICATE LINKAGE PINS & ARMTR SHAFT BEARINGS	MW 2M	-----
	2.04	CHECK MAG CNTR MTG	MW 12M	-----

3-TYPE COUNTERS

030-312-701 (2/0)	2.01	(1) LUBRICATE RATCHET	MW 24M	-----
	2.01	(2) LUBRICATE DRIVER GEAR	MW 24M	-----
	2.01	(3) LUBRICATE SHAFTS	MW 24M	-----
	2.01	(4) LUBRICATE RESET ARMTR ROLLER	MW 24M	-----
	2.01	(5) LUBRICATE PAWL BEARINGS	MW 24M	-----

MAGNETIC COUNTERS KS-14359

030-310-701 (3/0)	2.01	(B) CLEAN NUMBER WHEELS	MW 12M	-----
	2.04	CHECK MAG CNTR MTG	MW 12M	-----

TROUBLE TESTS

3-TYPE COUNTERS

030-312-701 (2/0)	2.04	OPERATE CARD TIP & CAM CLRNC	TT	-----
	2.05	OPERATE CARD SHLDR & PILE-UP BRACKET CLRNC	TT	-----
	2.06	CLRNC BETWEEN MOVABLE BREAK CONTACT SPG AND MATING SURFACE OF OPERATE CARD	TT	-----
	2.07	CLRNC BETWEEN MOVABLE MAKE CONTACT SPG AND MATING SURFACE OF OPERATE CARD	TT	-----
	2.08	MOVABLE & STATIONARY MAKE CONTACTS CLRNC	TT	-----
	2.09	MOVABLE & STATIONARY BREAK CONTACTS CLRNC	TT	-----
	2.10	STATIONARY CONTACT SPG POSITION	TT	-----
	2.11	BALANCE SPG PRESSURE	TT	-----
	2.12	STPG COIL & RST COIL ARMTR FREEDOM OF MVMT	TT	-----
	2.13	ARMTR & POLE PIECE CLRNC	TT	-----
	2.14	RESET ARMTR ROLLER & CAM 'D' LOBE CLRNC	TT	-----
	2.15	STPG ARMTR RESTORING SPG FORCE	TT	-----
	2.16	RESET BRACKET RESTORING SPG FORCE	TT	-----
	2.17	STPG COIL & RESET COIL OPERATE VOLTAGE	TT	-----
	2.18	STPG COIL & RESET COIL OPERATE TIME	TT	-----

15.2 CTR, REG, TKTR; REGISTERS

SELECT ONLY ONE CATEGORY

BUNNELL INK WRITING REGISTER (PEN REGISTER)

030-340-701 (2/0)	2.01	CLEAN REGISTER	MW 12M	-----
	2.02	LUBRICATE ARMTR, EXTERNAL, FRONT MAIN, CONT ARM, STAR WHEEL, PAPER FEED-WHEEL, WORM SHAFT & PALLET SHAFT BEARINGS	MW 12M	-----

030-340-701 (2/0)	2.04	CHECK INKING	MW M	-----
20 PULSE PEN REGISTERS KS-3106 & KS-3107				
030-341-701 (4/0)	2.01	CLEAN EXTERNAL PEN REGISTER PARTS	MW 12M	-----
	2.02	LUBRICATE ARMTR, EXTERNAL, REAR MAIN, FRONT MAIN, CONTROL ARM, STAR WHEEL SHAFT, PAPER FEED-WHEEL, WORM SHAFT & PALLET SHAFT BEARINGS	MW 12M	-----
	2.04	CHECK INKING	MW M	-----

TROUBLE TESTS

BUNNELL INK WRITING REGISTER (PEN REGISTER)

030-340-701 (2/0)	2.05	CONTROL ARM ADJMT	TT	-----
	2.06	ARMTR AIR-GAP	TT	-----
	2.07	PRTG LEVER ADJMT	TT	-----
	2.08	ARMTR RETRACTILE SPG TENSION	TT	-----
	2.09	PAPER FEED-WHEEL PRESSURE	TT	-----
	2.10	OPRN	TT	-----
	2.11	PAPER TAPE SPEED	TT	-----

20-PULSE PEN REGISTER

030-341-701 (4/0)	2.05	CONTROL ARM ADJMT	TT	-----
	2.06	WORM SHAFT STOP PIN POSITION	TT	-----
	2.07	CONTROL ARM RETRACTILE SPG TENSION	TT	-----
	2.08	ARMTR TRAVEL	TT	-----
	2.09	PRTG LEVER POSITION	TT	-----
	2.10	PRTG LEVER RETRACTILE SPG TENSION	TT	-----
	2.11	PAPER FEED-WHEEL PRESSURE	TT	-----
	2.13	PAPER TAPE SPEED	TT	-----

LINE MESSAGE REGISTER 5-TYPE

030-330-701 (7/0)	2.01	OPRG PAWL & OVERTHROW STOP CLRNC	TT	-----
	2.02	STOP PAWL POSITION	TT	-----
	2.03	STOP PAWL STOP SPG POSITION	TT	-----
	2.04	OPRG PAWL FREEDOM OF OPRN	TT	-----
	2.05	WHEEL HUB END PLAY	TT	-----
	2.06	REGISTER MTG & ALNMT	TT	-----
	2.07	REGISTER CAP FIT	TT	-----
	2.08	CONTACT SEPN & SPG CLRNC	TT	-----
	2.09	ARMTR ADJG SCREW LOCKNUT TIGHTNESS	TT	-----
	2.10	RETRACTILE SPG CLRNC	TT	-----
	2.11	RETRACTILE SPG LUG POSITION	TT	-----
	2.12	REGISTER ELECTRICAL REQTS	TT	-----
	2.13	100 OPRN TEST	TT	-----

LINE MESSAGE REGISTER 15-TYPE

030-333-701 (1/1)	2.01	NUMBER WHEEL ALNMT	TT	-----
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030-333-701 (1/1)	2.02	ARMTR OPRN	TT	-----
	2.03	RESET OPRN	TT	-----
	2.04	RESERT BRKT OPRN	TT	-----
	2.05	OPRG PAWL POSITION	TT	-----
	2.06	PINION GUIDE SPG POSITION	TT	-----
	2.07	RESET LEVER, NUMBER WHEELS & PINIONS FREEDOM OF OPRN	TT	-----
	2.08	ARMTR, RESET BRKT/END PINION & RESET BRKT/FRAME END PLAY	TT	-----
	2.09	REGISTER MTG & ALNMT	TT	-----
	2.10	NORMALLY OPEN CONTACT SEPN	TT	-----
	2.11	NORMALLY OPEN CONTACTS MAKE	TT	-----
	2.12	STATIONARY CONTACT SPG TENSION	TT	-----
	2.13	ARMTR RETRACTILE SPG TENSION	TT	-----
	2.14	RESET LEVER SPG TENSION	TT	-----
	2.15	CONTACT ALNMT	TT	-----
	2.16	OPRD ARMTR-CORE GAP	TT	-----
	2.17	REGISTER ELECTRICAL REQTS	TT	-----
TRAFFIC & PLANT REGISTERS 5- & 12-TYPES				
030-330-702 (5/0)	2.01	CLEAN CONTACTS	TT	-----
	2.02	OPRG PAWL & OVERTHROW STOP CLRNC	TT	-----
	2.03	STOP PAWL POSITION	TT	-----
	2.04	STOP PAWL STOP SPG POSITION	TT	-----
	2.05	OPRG PAWL FREEDOM OF MVMT	TT	-----
	2.06	UNITS WHEEL HUB/FRAME END PLAY	TT	-----
	2.07	REGISTER MTG & ALNMT	TT	-----
	2.08	REGISTER CAP FIT	TT	-----
	2.09	CONTACT SEPN & SPG CLRNC	TT	-----
	2.10	ARMTR ADJG SCREW LOCKNUT TIGHTNESS	TT	-----
	2.11	RETRACTILE SPG CLRNC	TT	-----
	2.12	RETRACTILE SPG LUG POSITION	TT	-----
	2.13	REGISTER ELECTRICAL REQTS	TT	-----
	2.14	100 OPRN TEST	TT	-----
LINE MESSAGE REGISTERS 14-TYPE				
030-331-701 (5/0)	2.01	NUMBER WHEELS ALNMT	TT	-----
	2.02	OPRG PAWL POSITION	TT	-----
	2.03	BACKSTOP PAWL POSITION	TT	-----
	2.04	OVERTHROW STOP OPRN	TT	-----
	2.05	ARMTR, OPRG PAWL & DISTANCE ROD FREEDOM OF OPRN	TT	-----
	2.06	NUMBER WHEEL END PLAY	TT	-----
	2.07	REGISTER MTG & ALNMT	TT	-----

030-331-701 (5/0)	2.08	REGISTER COVER ASSEMBLY FIT	TT	-----
	2.09	CONTACT MAKE OPRN	TT	-----
	2.10	FRONT CONTACT SPG TENSION	TT	-----
	2.11	NORMALLY OPEN CONTRACT SEPN	TT	-----
	2.12	COIL SPG TENSION	TT	-----
	2.13	COIL SPG LUG POSITION	TT	-----
	2.14	OPRD ARMTR-CORE GAP	TT	-----
	2.15	REGISTER ELECTRICAL REQTS	TT	-----
	2.16	100 OPRN TEST	TT	-----

TRAFFIC & PLANT REGISTERS 14-TYPE

030-331-702 (5/0)	2.01	CLEAN CONTACTS	TT	-----
	2.02	NUMBER WHEELS ALNMT	TT	-----
	2.03	OPRG PAWL POSITION	TT	-----
	2.04	BACKSTOP PAWL POSITION	TT	-----
	2.05	OVERTHROW STOP OPRN	TT	-----
	2.06	ARMTR, OPRG PAWL & DISTANCE ROD FREEDOM OF OPRN	TT	-----
	2.07	NUMBER WHEEL END PLAY	TT	-----
	2.08	REGISTER MTG & ALNMT	TT	-----
	2.09	REGISTER COVER ASSEMBLY FIT	TT	-----
	2.10	CONTACT MAKE OPRN	TT	-----
	2.11	FRONT CONTACT SPG TENSION	TT	-----
	2.12	(A) NORMALLY OPEN CONTACT SEPN	TT	-----
	2.12	(B) NORMALLY CLOSED CONTACT SEPN	TT	-----
	2.13	NORMALLY CLOSED CONTACT PRESSURE	TT	-----
	2.14	OPRG ARM AND BACK CONTACT SPG CLRNC	TT	-----
	2.15	COIL SPG CLRNC	TT	-----
	2.16	COIL SPG TENSION	TT	-----
	2.17	COIL SPG LUG POSITION	TT	-----
	2.18	OPRD ARMTR-CORE GAP	TT	-----
	2.19	REGISTER ELECTRICAL REQTS	TT	-----
	2.20	100 OPRN TEST	TT	-----

LINE MESSAGE REGISTER 19A

030-334-701 (1/0)	2.01	NUMBER WHEELS ALNMT	TT	-----
	2.02	ARMTR & NUMBER DISC END PLAY	TT	-----
	2.03	REGISTER MTG & ALNMT	TT	-----
	2.04	CONTACT ALNMT	TT	-----
	2.07	CONTACT PRESSURE	TT	-----
	2.08	ARMTR RETRACTILE SPG TENSION	TT	-----
	2.09	OPRD ARMTR-CORE GAP	TT	-----
	2.10	REGISTER COVER ASSEMBLY FIT	TT	-----

030-334-701 (1/0) 2.11 ARMTR & OPRG PAWL OPRN TT -----
 2.12 REGISTER ELECTRICAL REQTS TT -----

LINE MESSAGE REGISTER 20A

030-334-701 (1/0) 2.01 NUMBER WHEELS ALNMT TT -----
 2.02 ARMTR & NUMBER DISC END PLAY TT -----
 2.03 REGISTER MTG & ALNMT TT -----
 2.04 CONTACT ALNMT TT -----
 2.05 MAKE CONTACTS ALNMT TT -----
 2.06 NORMALLY OPEN CONTACT SEPN TT -----
 2.07 CONTACT PRESSURE TT -----
 2.08 ARMTR RETRACTILE SPG TENSION TT -----
 2.09 OPRD ARMTR-CORE GAP TT -----
 2.10 REGISTER COVER ASSEMBLY FIT TT -----
 2.11 ARMTR & OPRG PAWL OPRN TT -----
 2.12 REGISTER ELECTRICAL REQTS TT -----

15.3 CTR, REG, TKTR; 1-TYPE MESSAGE TICKETERS

FOR ALL UNITS

030-360-701 (5/0) 2.01 CLEAN TICKETER MW 6M -----
 2.02 LUBRICATE TICKETER MW 6M -----
 2.33 CHECK INKING MW M -----

TROUBLE TESTS

030-360-701 (5/0) 2.04 CONTACT ALNMT TT -----
 2.05 TYPE WHEEL SHAFT END PLAY TT -----
 2.06 DRG & DRVN GEARS BACKLASH TT -----
 2.07 DISTR SURFACE COND TT -----
 2.08 DISTR BRUSH POSITION TT -----
 2.09 DISTR BRUSH TENSION TT -----
 2.10 DISTR BRUSH & SEGMENTS ENGMT TT -----
 2.11 DISTR FRICTION CLUTCH TORQUE TT -----
 2.12 TYPE & INDEX WHEEL ALNMT TT -----
 2.13 PRTG ARMTR MVMT TT -----
 2.14 PRTG HAMMER & TYPE WHEEL SEPN TT -----
 2.15 STABBER & INDEX WHEEL SEPN TT -----
 2.16 PRTG ARMTR & BACKSTOP SEPN TT -----
 2.17 PRTG ARMTR SPG TENSION TT -----
 2.18 SPACER PAWL MVMT TT -----
 2.19 SPACER PAWL SPG TENSION TT -----
 2.20 OPRD PRTG ARMTR AIR GAP TT -----
 2.21 PRTG MAGNET POSITION TT -----
 2.22 SPCR RATCHET DETENT & RATCHET TOOTH SEPN TT -----
 2.23 SPCR RATCHET DETENT SPG TENSION TT -----

030-360-701 (5/0)	2.24	SPG 1 & 2 INNER INSR SEPN	TT	-----
	2.25	CONTACT SEPN	TT	-----
	2.26	PRTG MAGNET SPG PRESSURE	TT	-----
	2.27	PRTG MAGNET SPG CONTACT PRESSURE	TT	-----
	2.28	PRTG MAGNET SPG SEPN	TT	-----
	2.29	TAPE PRESSURE BAIL SPG TENSION	TT	-----
	2.30	TYPE WHEEL INK ROLLER RTNG SPG TENSION	TT	-----
	2.31	TYPE WHEEL INK ROLLER RTNG SPG POSITION	TT	-----
	2.32	OUTER FEED ROLL TAPE GUIDE WASHER & FEED ROLL CLRNC	TT	-----
	2.34	TAPE-OUT LEVER POSITION	TT	-----
	2.35	TAPE-OUT CONTACT SEPN	TT	-----
	2.36	TAPE-OUT CONTACT SPG PRESSURE	TT	-----
	2.37	TAPE REEL SPG TENSION	TT	-----
	2.38	TAPE REEL SPG CLRNC	TT	-----
	2.39	CUTTER MAGNET SPG 1 & 3 SEPN	TT	-----
	2.40	CUTTER MAGNET SPG CONTACT SEPN	TT	-----
	2.41	CUTTER MAGNET SPG 2, 3 & 4 PRESSURE	TT	-----
	2.42	CUTTER MAGNET SPG 1 & 2 CONTACT PRESSURE	TT	-----
	2.43	CUTTER MAGNET SPG 4 SEPN	TT	-----
	2.44	CUTTER MAGNET SPG 3 & 4 CONTACT CLSR	TT	-----
	2.45	CUTTER SHAF POSITION	TT	-----
	2.46	OPRD CUTTER ARMTR AIR GAP	TT	-----
	2.47	CUTTER MAGNET POLE FACES & ARMTR POSITION	TT	-----
	2.48	CUTTER BLADES POSITION	TT	-----
	2.49	LOWER & UPPER CUTTER BLADES CLRNC	TT	-----
	2.50	CUTTER ARM & CUTTER ARM CAM CLRNC	TT	-----
	2.51	CUTTER BLADE COMPRN SPG TENSION	TT	-----
	2.52	CUTTER ARMTR RETR SPG TENSION	TT	-----
	2.53	CUTTER LEAF SPG & DNSTP CLRNC	TT	-----
	2.54	TKT HPR DOOR LATCH SPG TENSION	TT	-----
	2.55	TKT TRAY SPG TENSION	TT	-----
	2.56	TKT TRAY MVMT	TT	-----
	2.57	TAPE CHUTE POSITION	TT	-----
	2.58	TAPE CHUTE LIP CLRNC	TT	-----
	2.59	TAPE GUIDE LOCN	TT	-----
	2.60	TKT HPR LOCN	TT	-----
	2.61	TKT TRAY CLRNC	TT	-----
	2.62	DEF MOTOR	TT	-----
	2.63	MOTOR START RELAY REQTS	TT	-----
	2.64	PRTG MAGNET OPRN	TT	-----

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030-360-701	(5/0)	2.65	CUTTER MAGNET OPRN	TT	-----
		2.66	PLUG & SKT REQTS	TT	-----
15.4 CTR, REG, TKTR; KS-19717 L1, L2, L4 & L5 TAPE PRINTER					
FOR ALL UNITS					
030-342-701	(4/0)	2.01	CLEAN TAPE PRINTERS	MW 12M	-----
TROUBLE TESTS					
030-342-701	(4/0)	2.03	SOLENOIDS PLUNGER FREEDOM OF MVMT	TT	-----
		2.04	SOLENOID PLNGR STROKE TRVL	TT	-----
		2.05	LATERAL POSITION CABLE ADJMT	TT	-----
		2.06	ROTARY POSITION CABLE ADJMT	TT	-----
		2.07	PRT HMR SOLENOID ASSEMBLY ADJMT	TT	-----
		2.08	LOW TAPE ALARM OPRN	TT	-----
15.5 CTR, REG, TKTR; KS-19717 L3, L6 & L7 TAPE PRINTER					
FOR ALL UNITS					
030-342-702	(3/0)	2.01	CLEAN TAPE PRINTERS	MW 12M	-----
TROUBLE TESTS					
030-342-702	(3/0)	2.03	SOLENOIDS PLUNGER FREEDOM OF MVMT	TT	-----
		2.04	SOLENOID PLNGR STROKE TRVL	TT	-----
		2.05	LATERAL POSITION CABLE ADJMT	TT	-----
		2.06	ROTARY POSITION CABLE ADJMT	TT	-----
		2.07	PRT HMR SOLENOID ASSEMBLY ADJMT	TT	-----
		2.08	LOW TAPE ALARM OPRN	TT	-----