

EQUIPMENT TEST LIST CONTROLLERS AND CONTROL UNITS

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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.

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.

NOTICE

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

SECTION 024-001-012

2.0 CONTR&CONT UNIT

2.1 CONTR&CONT UNIT; 6B

FOR ALL UNITS

024-320-701 (1/0) 2.01 LUBRICATE CSHAF FRONT & REAR BEARINGS, MOTOR BEARING, OILITE BUSHING AND WORM GEAR MW 12M -----

2.2 CONTR&CONT UNIT; 36A

FOR ALL UNITS

024-321-701 (2/0) 2.01 CLEAN CONTACTS MR 12M -----

2.02 CHECK PLUNGER MOVEMENT MR 12M -----

TROUBLE TESTS

024-321-701 (2/0) 2.03 CONTACT ALNMT TT -----

2.04 CONTACT SEPN TT -----

2.05 CONTACT FOLLOW TT -----

2.06 CONTACT PRESSURE TT -----

2.07 SEPN BETWEEN SPRINGS TT -----

2.3 CONTR&CONT UNIT; KS-5016, KS-5117, KS-5374 & KS-5519 VOLTAGE CONTR

FOR ALL UNITS

024-350-701 (4/0) 2.01 (A) INSPECT & LUBRICATE WICK OILERS MW 12M -----

2.01 (B) CLEAN & LUBRICATE WICK OILERS & CAM DRIVE MOTOR BEARINGS MW 36M -----

2.01 (C) LUBRICATE CAM DRIVE GEAR CASE MW 36M -----

2.03 CHECK FREEDOM OF CONTACT ARM MW 12M -----

2.04 CHECK PLUNGER MOVEMENT MW 12M -----

2.08 CHECK SPRINGS & ROTATING CAM OR DISC CONTACT SURFACES MW 12M -----

2.11 CHECK FREEDOM OF MOTOR ARMATURE & ASSOCIATED GEARS MW 12M -----

2.13 CHECK COMMUTATOR OR COLLECTOR RING SURFACES MW 12M -----

2.14 CHECK BRUSHHOLDER CLRNC MW 12M -----

2.15 CHECK BRUSH LENGTH MW 12M -----

2.16 CHECK BRUSH PRESSURE MW 12M -----

2.17 CHECK BRUSH FIT MW 12M -----

TROUBLE TESTS

024-350-701 (4/0) 2.02 VOLTAGE RELAY & CONTACT ARM ALNMT TT -----

2.05 CONTACT ARM RETRACTILE SPRING TT -----

2.06 STRAIGHTNESS OF CONTACT SPRINGS TT -----

2.07 CLRNC BETWEEN SPRING CONTACTS TT -----

2.10 CURRENT IN CONTROL COIL CKT TT -----

2.12 SPEED OF ROTATING CONTACT CAM TT -----

2.18 REGULATION TT -----

2.19 TEMPERATURE TT -----

2.4 CONTR&CONT UNIT; KS-5755 L1,L2, KS-15868 L1 & KS-15983 L1,L2

FOR ALL UNITS

◆	024-346-701 (5/0)	2.01	CHECK MOUNTING	MW M	-----
◆		2.02	CLEAN & INSPECT CONTACTS	MW 12M	-----
◆		2.03	CHECK CONTACT PRESSURE	MW 12M	-----
◆		2.04	CHECK RELAY CONTACT FOLLOW	MW 12M	-----
◆		2.05	CHECK CONTACT GAP & OPERATED MAGNETIC GAP	MW 12M	-----
◆		2.06	(B1) CHECK AC,KA,KL&LC RELAYS OPRG VOLTAGES	MW 12M	-----
◆		2.06	(B2) CHECK SR RELAY OPRG & RLS CURRENT	MW 12M	-----
◆		2.06	(B3) CHECK OL RELAY RLS CURRENT	MW 12M	-----
◆		2.06	(B4) CHECK OL RELAY RLS TIME INTERVAL	MW 12M	-----
◆		2.06	(B5) CHECK KOL RELAY RLS TIME INTERVAL	MW 12M	-----
◆		2.06	(B6) CHECK KF RELAY OPRG CURRENT	MW 12M	-----
◆		2.06	(B7) CHECK TIME DELAY RELAY INTERVAL BTW KA&KL OPRG	MW M	-----
◆		2.06	(B8) CHECK KL RELAY RESET TIME INTERVAL	MW M	-----

TROUBLE TESTS

◆	024-346-701 (5/0)	2.07	TEMPERATURE	TT	-----
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2.5 CONTR&CONT UNIT; KS-5647 L1-L4 & KS-15821 L1

FOR ALL UNITS

	024-345-701 (3/1)	2.01	CHECK MOUNTING	MW M	-----
		2.02	CLEAN & INSPECT CONTACTS	MW 12M	-----
		2.03	CHECK CONTACT PRESSURE	MW 12M	-----
		2.04	CHECK CONTACT FOLLOW	MW 12M	-----
		2.05	CHECK CONTACT GAP & OPERATED MAGNETIC GAP	MW 12M	-----
◆		2.06	(B1) CHECK AC & LC RELAYS OPRG VOLTAGES	MW 12M	-----
◆		2.06	(B2) CHECK SR RELAY RLS CURRENT	MW 12M	-----
◆		2.06	(B3) CHECK OL RELAY RLS CURRENT & TIME INTERVAL	MW 12M	-----

TROUBLE TESTS

	024-345-701 (3/1)	2.07	TEMPERATURE	TT	-----
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2.6 CONTR&CONT UNIT; KS-6835 (BROWN)

FOR ALL UNITS

◆	024-332-701 (2/0)	2.01	(D) CLEAN LIFT ROD AND LIFT ROD GUIDES	MR 3M	-----
		2.02	LUBRICATE DEPRESSOR BAR PIVOT BEARINGS	MR 3M	-----
		2.13	CHECK COVER	MR 12M	-----

OPTIONAL FEATURES

DIRECT CAM TYPE TRIGGER CONTACT

◆	024-332-701 (2/0)	2.01	(B) CLEAN CONTACTS & CONTACT SPRINGS	MR 3M	-----
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HAMMER TYPE TRIGGER CONTACT

◆	024-332-701 (2/0)	2.01	(C) CLEAN TRIGGER HAMMER, SUPPORTS OUTER EDGE & BAKELITE BLK	MR 3M	-----
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TROUBLE TESTS

	024-332-701 (2/0)	2.01	CLEAN CONTACTS	TT	-----
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024-332-701 (2/0)	2.04	GALVANOMETER	TT	-----
	2.05	CONTACT TABLES	TT	-----
	2.06	DEPRESSOR BAR	TT	-----
	2.07	LIFT ROD	TT	-----
	2.08	CAMS	TT	-----
	2.10	MOTOR	TT	-----
	2.11	ELECTROMAGNET	TT	-----
	2.12	TIMING	TT	-----

DIRECT CAM TYPE TRIGGER CONTACT

024-332-701 (2/0)	2.09	(A) TRIGGER CONTACT	TT	-----
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HAMMER TYPE TRIGGER CONTACT

024-332-701 (2/0)	2.09	(B) TRIGGER CONTACT	TT	-----
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2.7 CONTR & CONT UNIT; KS-7664

FOR ALL UNITS

024-330-701 (3/1)	2.01	(A1, A2 & A10) CLEAN CLUTCH DISC, CORKS & ARM SHOES	MR 6M	-----
	2.01	(A11) CLEAN & INSPECT RELAY CONTACTS	MR 6M	-----
	2.01	(A3 - A6) CLEAN GALVANOMETER PTR, STATIONARY CLAMP, CLAMPING WIRES & SETTING LEVERS	MR 12M	-----
	2.01	(A9) CLEAN WORM GEAR	MR 12M	-----
	2.01	(B1 - B3) CLEAN OPRG CAM, SLIDE WIRE & BALG MECHANISM	MR 6M	-----
	2.02	(A1 & A2) LUBRICATE OPRG CAM SHAFT & SLIDE WIRE SHAFT BEARINGS	MR 2M	-----
	2.02	(A3 & A4) LUBRICATE SHAFT BEARINGS	MR 6M	-----
	2.02	(A5 & A6) LUBRICATE SOCKET & PIVOT BEARINGS	MR 2M	-----
	2.02	(A7, A8 & A10) LUBRICATE REDUCTION GEARS, DIAL DRIVE GEARS & FIBRE CONTACT BUTTONS	MR 6M	-----
	2.02	(A9 & A11) LUBRICATE CLUTCH ARM SHOES & OPRG CAM SHAFT	MR 2M	-----
	2.04	(C) CHECK ROCKER ARM FREEDOM OF MOVEMENT	MR 2M	-----
	2.16	CHECK LIMIT ALARM	MR 6M	-----

TROUBLE TESTS

024-330-701 (3/1)	2.01	(A7 & A8) CLEAN & INSPECT SHAFT BEARINGS	TT	-----
	2.04	(A&B) ROCKER ARM CLAMPING WIRES ALNMT & PRESSURE	TT	-----
	2.05	SETTING LEVERS BALANCE, CLRNC & PRESSURE	TT	-----
	2.06	GALVANOMETER	TT	-----
	2.07	GALVANOMETER POINTER	TT	-----
	2.08	CAM-SHAFT TIGHTNESS	TT	-----
	2.09	SWEEP CAMS	TT	-----
	2.10	SLIDE WIRE CONTACT SPGS PRESSURE	TT	-----
	2.11	REDUCTION GEARS	TT	-----
	2.12	GALVANOMETER SENSITIVITY	TT	-----

024-330-701 (3/1)	2.13	BRIDGE BALANCE	TT	-----
	2.14	SLIDE WIRE RESISTANCE	TT	-----
	2.15	CLUTCH ARM BLOCK	TT	-----
	2.17	MOTOR BEARINGS	TT	-----
	2.18	BACKLASH	TT	-----

2.8 CONTRS & CONT UNIT; KS-7781

FOR ALL UNITS

024-331-701 (3/2)	2.01	(A1, A2 & A9) CLEAN CLUTCH DISC, CORK SHOES & ARM SHOES	MR 6M	-----
	2.01	(A10) CLEAN & INSPECT RELAY CONTACTS	MR 6M	-----
	2.01	(A3 - A6) CLEAN GALVANOMETER PTR, STATIONARY CLAMP, CLAMPING WIRES & SETTING LEVERS	MR 12M	-----
	2.01	(A8) CLEAN WORM GEAR	MR 12M	-----
	2.01	(B) CLEAN OPRG CAM, SLIDE WIRE & BALG MECHANISM	MR 6M	-----
	2.02	(A1) LUBRICATE SHAFT BEARINGS	MR 6M	-----
	2.02	(A2) LUBRICATE GEARS	MR 6M	-----
	2.02	(A3) LUBRICATE CLUTCH ARM SHOES	MR 2M	-----
	2.02	(A4 & A5) LUBRICATE SOCKET & PIVOT BEARINGS	MR 2M	-----
	2.02	(A6) LUBRICATE FIBRE BUTTONS	MR 6M	-----
	2.02	(A7) LUBRICATE OPRG CAM	MR 2M	-----
	2.04	(C) CHECK ROCKER ARM FREEDOM OF MOVEMENT	MR 2M	-----

TROUBLE TESTS

024-331-701 (3/2)	2.01	(A7) CLEAN & INSPECT SHAFT BEARINGS	TT	-----
	2.04	(A & B) ROCKER ARM CLAMPING WIRES ALNMT & PRESSURE	TT	-----
	2.05	SETTING LEVERS BALANCE, CLRNC & PRESSURE	TT	-----
	2.06	GALVANOMETER	TT	-----
	2.07	STATIONARY CLAMP & GALVANOMETER POINTER ALNMT	TT	-----
	2.08	CLUTCH	TT	-----
	2.09	CAM-SHAFT TIGHTNESS	TT	-----
	2.10	SWEEP CAMS	TT	-----
	2.11	LOCKUP CAM CONTACTS	TT	-----
	2.12	CAM LU OPRG	TT	-----
	2.13	RETREATING AND ALARM CAM CONTACTS	TT	-----
	2.14	(2.14 - 2.15) RETREATING CAM L1	TT	-----
	2.16	OUT OF STEP CAM ALM	TT	-----
	2.17	CTRG CAM CONTACTS	TT	-----
	2.18	CTRG CAMS	TT	-----
	2.19	LIMIT CAM CONTACTS	TT	-----
	2.20	LIMIT CAMS	TT	-----
	2.21	MERCURY SWITCH	TT	-----
	2.22	SLIDE WIRE CONTACT ARM	TT	-----

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024-331-701 (3/2)	2.23	MOTOR BEARINGS	TT	-----
	2.24	TRMTR MOTOR TRS MOT BRUSH LENGTH & PRESSURE	TT	-----
	2.25	REDUCTION GEARS	TT	-----
	2.26	GALVANOMETER SHUNT ADJMT	TT	-----
	2.27	BRIDGE BALANCE	TT	-----
	2.28	CONTROLLER LAG	TT	-----
	2.29	CONTROLLER STEP	TT	-----
	3.30	SLIDE WIRE RESISTANCE	TT	-----
	3.31	CLUTCH ARM TRAVEL	TT	-----
	3.32	TRMTR MOTOR TRS MOT ALTMT	TT	-----