

## EQUIPMENT TEST LIST

### CONTROLLERS AND CONTROL UNITS

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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.

**1. GENERAL**

**1.01** This section provides an index and information access system to locate the standard tests

**NOTICE**

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Bell System except under written agreement

## SECTION 024-001-012

## 2.0 CONTR&amp;CONT UNIT

## 2.1 CONTR&amp;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	-----
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## 2.2 CONTR&amp;CONT UNIT; 36A

FOR ALL UNITS

024-321-701	(2/0)	2.01	CLEAN CONTACTS (OR AS REQD)	MW 12M	-----
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		2.02	CHECK PLUNGER MOVEMENT	MW 12M	-----
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TROUBLE TESTS

024-321-701	(2/0)	2.03	CONTACT ALNMT	TT	-----
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		2.04	CONTACT SEPN	TT	-----
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		2.05	CONTACT FOLLOW	TT	-----
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		2.06	CONTACT PRESSURE	TT	-----
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		2.07	SEPN BETWEEN SPRINGS	TT	-----
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## 2.3 CONTR&amp;CONT UNIT; KS-5016, KS-5117, KS-5374 &amp; KS-5519 VOLTAGE CONTR

FOR ALL UNITS

024-350-701	(4/0)	2.01	(A) INSPECT & LUBRICATE WICK OILERS	MW 12M	-----
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		2.01	(B) CLEAN & LUBRICATE WICK OILERS & CAM DRIVE MOTOR BEARINGS	MW 36M	-----
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		2.01	(C) LUBRICATE CAM DRIVE GEAR CASE	MW 36M	-----
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		2.03	CHECK FREEDOM OF CONTACT ARM	MW 12M	-----
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		2.04	CHECK PLUNGER MOVEMENT	MW 12M	-----
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		2.08	CHECK SPRINGS & ROTATING CAM OR DISC CONTACT SURFACES	MW 12M	-----
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		2.11	CHECK FREEDOM OF MOTOR ARMATURE & ASSOCIATED GEARS	MW 12M	-----
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		2.13	CHECK COMMUTATOR OR COLLECTOR RING SURFACES	MW 12M	-----
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		2.14	CHECK BRUSHHOLDER CLRNC	MW 12M	-----
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		2.15	CHECK BRUSH LENGTH	MW 12M	-----
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		2.16	CHECK BRUSH PRESSURE	MW 12M	-----
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		2.17	CHECK BRUSH FIT	MW 12M	-----
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TROUBLE TESTS

024-350-701	(4/0)	2.02	VOLTAGE RELAY & CONTACT ARM ALNMT	TT	-----
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		2.05	CONTACT ARM RETRACTILE SPRING	TT	-----
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		2.06	STRAIGHTNESS OF CONTACT SPRINGS	TT	-----
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		2.07	CLRNC BETWEEN SPRING CONTACTS	TT	-----
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		2.10	CURRENT IN CONTROL COIL CKT	TT	-----
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		2.12	SPEED OF ROTATING CONTACT CAM	TT	-----
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		2.18	REGULATION	TT	-----
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		2.19	TEMPERATURE	TT	-----
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## 2.4 CONTR&amp;CONT UNIT; KS-5755 L1,L2, KS-15868 L1 &amp; 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	-----
<b>TROUBLE TESTS</b>					
024-346-701	(5/0)	2.07	TEMPERATURE	TT	-----
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	-----
<b>TROUBLE TESTS</b>					
024-345-701	(3/1)	2.07	TEMPERATURE	TT	-----
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	MW 3M	-----
		2.02	LUBRICATE DEPRESSOR BAR PIVOT BEARINGS	MW 3M	-----
		2.13	CHECK COVER	MW 12M	-----
<b>OPTIONAL FEATURES</b>					
DIRECT CAM TYPE TRIGGER CONTACT					
024-332-701	(2/0)	2.01	(B) CLEAN CONTACTS & CONTACT SPRINGS	MW 3M	-----
HAMMER TYPE TRIGGER CONTACT					
024-332-701	(2/0)	2.01	(C) CLEAN TRIGGER HAMMER, SUPPORTS OUTER EDGE & BAKELITE BLK	MW 3M	-----
<b>TROUBLE TESTS</b>					
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	MW 6M	-----
	2.01	(A11) CLEAN & INSPECT RELAY CONTACTS	MW 6M	-----
	2.01	(A3 - A6) CLEAN GALVANOMETER PTR, STATIONARY CLAMP, CLAMPING WIRES & SETTING LEVERS	MW 12M	-----
	2.01	(A9) CLEAN WORM GEAR	MW 12M	-----
	2.01	(B1 - B3) CLEAN OPRG CAM, SLIDE WIRE & BALG MECHANISM	MW 6M	-----
	2.02	(A1 & A2) LUBRICATE OPRG CAM SHAFT & SLIDE WIRE SHAFT BEARINGS	MW 2M	-----
	2.02	(A3 & A4) LUBRICATE SHAFT BEARINGS	MW 6M	-----
	2.02	(A5 & A6) LUBRICATE SOCKET & PIVOT BEARINGS	MW 2M	-----
	2.02	(A7, A8 & A10) LUBRICATE REDUCTION GEARS, DIAL DRIVE GEARS & FIBRE CONTACT BUTTONS	MW 6M	-----
	2.02	(A9 & A11) LUBRICATE CLUTCH ARM SHOES & OPRG CAM SHAFT	MW 2M	-----
	2.04	(C) CHECK ROCKER ARM FREEDOM OF MOVEMENT	MW 2M	-----
	2.16	CHECK LIMIT ALARM	MW 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 &amp; CONT UNIT; KS-7781

## FOR ALL UNITS

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

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	-----