

EQUIPMENT TEST LIST
CENTRAL OFFICE LEAD BATTERIES
POWER SYSTEMS EQUIPMENT

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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 157-001-011

8.0 C.O.BATTERIES PB

8.1 C.O.BATTERIES PB; NON CYLINDRICAL

SELECT ONLY ONE CATEGORY

STRINGS

◆	157-601-701 (18/1)	2.02	CALIBRATE VOLTMETER (PER SECTION 100-510-701)	MW 12M	-----
◆		2.02	CHECK BATTERY FLOAT VOLTAGE (OR EACH VISIT TO UNATTENDED SITES)	MW W	-----
◆		2.19	CLEAN & INSPECT BATTERY RACKS AND STANDS	MW 4M	-----

STANDARD CELLS, HARD RUBBER CASE

◆	157-601-701 (18/1)	2.02	CHECK INDIVIDUAL CELL FLOAT VOLTAGE	MW 4M	-----
◆		2.03	CHECK INDIVIDUAL CELL SPECIFIC GRAVITY	MW 8M	-----
◆		2.09	CHECK ELECTROLYTE LEVEL (LEAD ANTIMONY)	MW 6M	-----
◆		2.09	CHECK ELECTROLYTE LEVEL (LEAD CALCIUM)	MW 12M	-----
◆		2.09	PERFORM WATER ANALYSIS	MW 12M	-----
◆		2.10	INSPECT LEVEL INDICATOR FLOATS	MW 12M	-----
◆		2.12	CHECK CONNECTIONS FOR CORROSION	MW 4M	-----
◆		2.13	INSPECT CONTAINERS FOR CRACKS AND LEAKS	MW 4M	-----
◆		2.15	CLEAN & INSPECT SEALS	MW 4M	-----
◆		2.16	CHECK SPACING BETWEEN CONTAINERS (OR EACH TIME MAINTENANCE WORK IS DONE)	MW 4M	-----
◆		2.17	CLEAN & INSPECT ANTIEXPLOSION FEATURES	MW 4M	-----
◆		2.18	CLEAN & INSPECT SPRAY CAPS	MW 4M	-----
◆	157-601-703 (1/1)	2.11	INSPECT FOR VERTICAL PLATE GROWTH AND COVER RISE	MW 4M	-----
◆		2.12	INSPECT FOR LATERAL PLATE GROWTH AND JAR BULGE	MW 4M	-----

STANDARD CELLS, PLASTIC CASE

◆	157-601-701 (18/1)	2.02	CHECK INDIVIDUAL CELL FLOAT VOLTAGE OR INSPECT FOR CRYSTALS (2.03.1 - 2.03.2)	MW 4M	-----
◆		2.03	CHECK INDIVIDUAL CELL SPECIFIC GRAVITY OR INSPECT FOR CRYSTALS (2.03.1 - 2.03.2)	MW 8M	-----
◆		2.09	CHECK ELECTROLYTE LEVEL (LEAD ANTIMONY)	MW 6M	-----
◆		2.09	CHECK ELECTROLYTE LEVEL (LEAD CALCIUM)	MW 12M	-----
◆		2.09	PERFORM WATER ANALYSIS	MW 12M	-----
◆		2.12	CHECK CONNECTIONS FOR CORROSION	MW 4M	-----
◆		2.13	INSPECT CONTAINERS FOR CRACKS AND LEAKS (OVER 8 YEARS OLD AND IN BATTERY STRINGS GREATER THAN 48 VOLTS)	MW 2M	-----
◆		2.13	INSPECT CONTAINERS FOR CRACKS AND LEAKS	MW 4M	-----
◆		2.15	CLEAN & INSPECT SEALS	MW 4M	-----
◆		2.16	CHECK SPACING BETWEEN CONTAINERS (OR EACH TIME MAINTENANCE WORK IS DONE)	MW 4M	-----
◆		2.17	CLEAN & INSPECT ANTIEXPLOSION FEATURES	MW 4M	-----
◆		2.18	CLEAN & INSPECT SPRAY CAPS	MW 4M	-----
◆	157-601-703 (1/1)	2.02	CHECK POSITIVE PLATE GROWTH AND BOWING	MW 4M	-----

157-601-703 (1/1)	2.04	CHECK STRAP GROWTH	MW 4M	-----
	2.05	INSPECT BATTERY JAR FOR CRAZING AND CRACKING	MW 4M	-----
	2.05	INSPECT BATTERY JAR FOR CRAZING & CRACKING (OVER 8 YEARS OLD AND IN BATTERY STRINGS GREATER THAN 48 VOLTS)	MW 2M	-----
	2.06	CHECK BATTERY JAR FOR CRACKS AND ELECTROLYTE LEAKAGE (OVER 8 YEARS OLD AND IN BATTERY STRINGS GREATER THAN 48 VOLTS)	MW 2M	-----
	2.06	CHECK BATTERY JAR FOR CRACKS AND ELECTROLYTE LEAKAGE	MW 4M	-----
	2.07	INSPECT FOR LEAKING JAR COVER SEALS	MW 12M	-----
	2.07	INSPECT FOR LEAKING JAR COVER SEALS (OVER 8 YEARS OLD AND IN BATTERY STRINGS GREATER THAN 48 VOLTS)	MW 4M	-----
	2.08	INSPECT NEGATIVE PLATES FOR CRACKS OR VOIDS	MW 4M	-----
	2.09	INSPECT NEGATIVE PLATES FOR NEEDLE GROWTH	MW 4M	-----
PILOT CELLS, HARD RUBBER CASE				
157-601-701 (18/1)	2.02	CHECK PILOT CELL FLOAT VOLTAGES (LEAD ANTIMONY) (OR EACH VISIT TO UNATTENDED SITES)	MW 2W	-----
	2.03	CHECK PILOT CELL SPECIFIC GRAVITY (LEAD ANTIMONY)	MW 4M	-----
	2.07	CHECK PILOT CELL TEMPERATURE	MW 4M	-----
PILOT CELLS, PLASTIC CASE				
157-601-701 (18/1)	2.02	CHECK PILOT CELL FLOAT VOLTAGES (LEAD ANTIMONY) (OR EACH VISIT TO UNATTENDED SITES)	MW 2W	-----
	2.03	CHECK PILOT CELL SPECIFIC GRAVITY (LEAD ANTIMONY)	MW 4M	-----
	2.07	CHECK PILOT CELL TEMPERATURE	MW 4M	-----
EMERGENCY CELLS, HARD RUBBER CASE				
157-601-701 (18/1)	2.02	CHECK EMERGENCY CELL FLOAT VOLTAGES (OR EACH VISIT TO UNATTENDED SITES)	MW W	-----
	2.04	CHECK EMERGENCY CELL SPECIFIC GRAVITY	MW W	-----
	2.09	CHECK ELECTROLYTE LEVEL (LEAD ANTIMONY) (OR MORE OFTEN PER LOCAL REQUIREMENTS)	MW 4M	-----
	2.09	CHECK ELECTROLYTE LEVEL (LEAD CALCIUM)	MW 12M	-----
	2.09	PERFORM WATER ANALYSIS	MW 12M	-----
	2.10	CLEAN & INSPECT LEVEL INDICATORS	MW 12M	-----
	2.12	CHECK CONNECTIONS FOR CORROSION	MW 4M	-----
	2.13	INSPECT CONTAINERS FOR CRACKS AND LEAKS	MW 4M	-----
	2.15	CLEAN & INSPECT SEALS	MW 4M	-----
	2.16	CHECK SPACING BETWEEN CONTAINERS (OR EACH TIME MAINTENANCE WORK IS DONE)	MW 4M	-----
	2.17	CLEAN & INSPECT ANTIEXPLOSION FEATURES	MW 4M	-----
	2.18	CLEAN & INSPECT SPRAY CAPS	MW 4M	-----
157-601-703 (1/1)	2.11	INSPECT FOR VERTICAL PLATE GROWTH AND COVER RISE	MW 4M	-----
	2.12	INSPECT FOR LATERAL PLATE GROWTH AND JAR BULGE	MW 4M	-----

EMERGENCY CELLS, PLASTIC CASE

157-601-701 (18/1)	2.02	CHECK EMERGENCY CELL FLOAT VOLTAGES OR INSPECT FOR CRYSTALS (2.03.1 - 2.03.2) (OR EACH VISIT TO UNATTENDED SITES)	MW W	-----
	2.04	CHECK EMERGENCY CELL SPECIFIC GRAVITY OR INSPECT FOR CRYSTALS (2.03.1 - 2.03.2)	MW W	-----
	2.09	CHECK ELECTROLYTE LEVEL & WATER ANALYSIS (OR MORE OFTEN PER LOCAL REQUIREMENTS)	MW 12M	-----
	2.09	CHECK ELECTROLYTE LEVEL (LEAD ANTIMONY) (OR MORE OFTEN PER LOCAL REQUIREMENTS)	MW 4M	-----
	2.09	PERFORM WATER ANALYSIS	MW 12M	-----
	2.12	CHECK CONNECTIONS FOR CORROSION	MW 4M	-----
	2.13	INSPECT CONTAINERS FOR CRACKS AND LEAKS	MW 4M	-----
	2.13	INSPECT CONTAINERS FOR CRACKS AND LEAKS (OVER 8 YEARS OLD AND IN BATTERY STRINGS GREATER THAN 48 VOLTS)	MW 2M	-----
	2.15	CLEAN & INSPECT SEALS	MW 4M	-----
	2.16	CHECK SPACING BETWEEN CONTAINERS (OR EACH TIME MAINTENANCE WORK IS DONE)	MW 4M	-----
	2.17	CLEAN & INSPECT ANTIEXPLOSION FEATURES	MW 4M	-----
	2.18	CLEAN & INSPECT SPRAY CAPS	MW 4M	-----
157-601-703 (1/1)	2.02	CHECK POSITIVE PLATE GROWTH AND BOWING	MW 4M	-----
	2.04	CHECK STRAP GROWTH	MW 4M	-----
	2.05	INSPECT BATTERY JAR FOR CRAZING AND CRACKING (OVER 8 YEARS OLD AND IN BATTERY STRINGS GREATER THAN 48 VOLTS)	MW 2M	-----
	2.05	INSPECT BATTERY JAR FOR CRAZING & CRACKING	MW 4M	-----
	2.06	CHECK BATTERY JAR FOR CRACKS AND ELECTROLYTE LEAKAGE (OVER 8 YEARS OLD AND IN BATTERY STRINGS GREATER THAN 48 VOLTS)	MW 2M	-----
	2.06	CHECK BATTERY JAR FOR CRACKS AND ELECTROLYTE LEAKAGE	MW 4M	-----
	2.07	INSPECT FOR LEAKING JAR COVER SEALS	MW 12M	-----
	2.07	INSPECT FOR LEAKING JAR COVER SEALS (OVER 8 YEARS OLD AND IN BATTERY STRINGS GREATER THAN 48 VOLTS)	MW 4M	-----
	2.08	INSPECT NEGATIVE PLATES FOR CRACKS OR VOIDS	MW 4M	-----
	2.09	INSPECT NEGATIVE PLATES FOR NEEDLE GROWTH	MW 4M	-----

TROUBLE TESTS

157-601-701 (18/1)	2.05	BOOST CHARGE	TT	-----
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8.2 C.O. BATTERIES PB; KS-20472 CYLNR

SELECT ONLY ONE CATEGORY

STRINGS

157-629-701 (2/1)	8.05	BATTERY FLOAT VOLTAGE (OR EACH VISIT TO UNATTENDED SITES)	MW W	-----
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CELLS

157-629-701 (2/1)	8.06	(8.06 - 8.10) INSPECT INDIVIDUAL CELLS FOR CRYSTALS	MW 4M	-----
	8.11	CHECK ELECTROLYTE TEMPERATURE	MW 4M	-----

157-629-701 (2/1)	8.14 (B) PERFORM WATER ANALYSIS	MW 12M	-----
	8.14 CHECK ELECTROLYTE LEVEL	MW 12M	-----
	8.26 CLEAN AND INSPECT ANTIEXPLOSION DEVICE-VENT FUNNEL	MW 12M	-----
157-629-702 (1/0)	3.01 PERFORM POSITIVE POST VISUAL INSPECTION (LIST 1 - LIST 4 ONLY)	MW *	-----

TROUBLE TESTS

157-629-701 (2/1)	8.12 SPECIFIC GRAVITY TEST	TT	-----
	8.15 (8.15 - 8.16) DISCHARGE CAPACITY TEST	TT	-----
	8.17 (8.17 - 8.21) CELL REVERSAL TEST	TT	-----
	8.22 BOOST CHARGE	TT	-----
	8.23 CHECK CONNECTORS FOR CORROSION	TT	-----
	8.24 CLEAN AND INSPECT BATTERY JAR	TT	-----
	8.25 CHECK SPACING BETWEEN CELLS (AFTER SEVERE SHOCK OR EARTHQUAKE)	TT	-----
	8.27 BATTERY RACKS AND STANDS-CLEAN AND INSPECT	TT	-----