

STORAGE BATTERY
KS-20472 BELLCELL* BATTERY
DESCRIPTION, INSTALLATION, AND MAINTENANCE

1. GENERAL

1.001 This addendum supplements Section 157-629-701, Issue 2. Place this pink sheet ahead of Page 1 of the section.

1.002 This addendum is reissued for the reasons listed below. The Equipment Test List is not affected.

- (a) To change the section title to introduce the BELLCELL trademark designation
- (b) To add the new list numbers with the new post seal design
- (c) To establish electrolyte level requirements for both the old and new list numbers
- (d) To add paragraph 1.03.1
- (e) To add a danger before paragraphs 4.16 and 8.26.
- (f) To update paragraph 5.01
- (g) To change the time interval in paragraph 6.03
- (h) To correct specification numbers in Part 8(A)
- (i) To add a note after paragraph 8.26.
- (j) To include a footnote in Table C.

1.003 Issue 1 of this addendum was issued to update the reference to the Equipment Test List in paragraph 8.14.

*Trademark

2. CHANGES TO SECTION

ISSUE 1 CHANGES

2.001 On Page 23, change paragraph 8.14 to read as follows:

8.14 The level of electrolyte shall be maintained between the high- and low-level marks on the battery jar (see paragraph 6.03). Electrolyte level checking interval is dependent upon local conditions and is to be performed as required in ETL Section 157-001-011.

ISSUE 2 CHANGES

2.002 On Page 1, in the section title, change KS-20472 Cylindrical Lead Acid Cell to read KS-20472 BELLCELL* Battery.

2.003 On Page 3, add paragraph 1.03.1 as follows:

1.03.1 KS-20472, L1, L2, L3, and L4, batteries require a visual inspection of the positive post seal to expose any signs of possible corrosion. Refer to Section 157-629-702 for inspection requirements and procedures.

2.004 On Page 5, add the following to paragraph 2.03.

Lists 1-S, 2-S, 3-S, and 4-S BELLCELLs are essentially identical to the older L1, 2, 3, and 4 cells except that they contain a new post seal design. The new design removes the epoxy lead interface from the acid which significantly increases the life of the post seal. Cells with the new post seal design have black electrolyte level lines, similar to the original BELLCELL design. On the L1, 2, 3, and 4 cells, new red electrolyte level lines have been added to indicate the new lower electrolyte level requirements.

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The new lines insure that the epoxy interface is removed from the acid on the old long epoxy post seal design.

- 2.005 On Page 11, preceding paragraph 4.16, add the following admonishment:

Danger: The safety vent funnel tube on all KS-20472 cells has been lengthened to accommodate the lowered electrolyte level. All KS-20472, L1, L2, L3, and L4, cells with the lowered electrolyte level (new red level lines) should have an extension attached to the original tube. All KS-20472, L1S, L2S, L3S, and L4S BELLCELLS should be equipped with either the extension tube or the new longer safety vent funnel tube. Any vent tube which does not extend below the red level lines or new black lines must be modified by Western Electric Installation. If there are any questions concerning the extension tube, contact the Western Electric Quality Service Management (QSM).

- 2.006 On Page 14, paragraph 5.01, after Caution, add the following:

5.01.1 New cells may be intermixed directly into an existing string of older cells when necessary for replacement purposes if the old cells have been treated with platinum depolarizer. (All new cells are factory treated with platinum depolarizer.)

5.01.2 If the old cells have not been factory or field depolarized, platinum depolarizer solution should be added.

5.01.3 Where a multiple string installation is involved with old and new cells, it is generally recommended that new and old cells be segregated into complete strings, whenever possible. This will minimize the administrative efforts associated with maintenance and record keeping of mixed strings.

- 2.007 On Page 16, paragraph 6.03, change the first sentence from ...2 months.... to read 2 weeks.

- 2.008 On Page 18, Part 8, under "Tools," change KS-21527, L1 and L2, to read KS-21527, L3 and L4, respectively.

- 2.009 On page 20, Table C, under column "DESCRIPTION OF OPERATION," change "BATTERY FLOAT VOLTAGE READING" to "BATTERY FLOAT VOLTAGE READING†." After the table add:

† Includes all emergency cells contained in the battery string being checked.

- 2.010 On Page 23, change paragraph 8.14 to read:

...On KS-20472, L1, 2, 3, and 4 cells, the level of electrolyte shall be maintained between the red high- and low-level lines on the battery jar. On KS-20472, L1-S, L2-S, L3-S, and L4-S, the level of electrolyte shall be maintained between the black high- and low-level lines on the battery jar. (See Paragraph 6.03.) Electrolyte level checking interval is dependent upon local conditions and is to be performed as required in ETL Section 157-001-011.

- 2.011 On Page 29, preceding paragraph 8.26, add the following admonishment:

Danger: The safety vent funnel tube on all KS-20472 cells has been lengthened to accommodate the lowered electrolyte level. All KS-20472, L1, L2, L3, and L4, cells with the lowered electrolyte level (new red level lines) should have an extension attached to the original tube. All KS-20472, L1S, L2S, L3S, and L4S BELLCELLS should be equipped with either the extension tube or the new longer safety vent funnel tube. Any vent tube which does not extend below the red level lines or new black lines must be modified by Western Electric Installation. If there are any questions concerning the extension tube, contact the Western Electric Quality Service Management (QSM).

- 2.012 On Page 29, after paragraph 8.26, add the following note:

Note: Modified safety vents (extensions added) which become defective must be replaced with modified safety vents.