

Technical Report Preprint

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J781a

Battery Identification Selection Chart - SAE J781a

SAE Information Report

Report of Electrical Equipment Committee approved May 1960 and last revised June 1965.

PROCEDURE FOR SELECTING IDENTIFICATION NUMBERS FOR NEW BATTERY TYPES

1. Select from the plan views, shown at the top of the chart, the cell and terminal arrangement having the approximate fixed dimension of the new battery. The figure number corresponding to this view will be the first symbol of the new battery designation.

2. The second symbol will classify the overall battery height in accordance with the following table:

Battery Height Range, in.	Second Symbol
Up through 8-1/8	L
Over 8-1/8 through 9-1/8	M
Over 9-1/8 through 9-3/8	H
Over 9-3/8	T

If the battery container has a molded cavity near the bot-

tom at each end to mate with bottom hold-down, a letter C should be added to the second symbol.

3. The third symbol will be selected from the columns beneath the figure number. Find the "X" dimension equal to, or next greater than, the "X" dimension of the new battery. The corresponding number will become the third symbol.

4. If the number resulting from the above procedure should be identical with a number already assigned, but the ampere-hour rating of the new battery is different, use a suffix letter as a fourth symbol, beginning with the letter A or the next letter of the alphabet not previously used, to distinguish the new battery from those having the same configuration but different electrical ratings.

Cell and terminal plans serve for batteries with brand names on either front or back. For example, Fig. 9 can be turned to 180 deg.

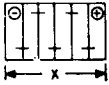
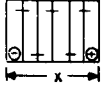
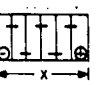
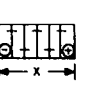
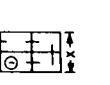
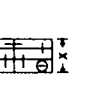
Battery Identification Selection Chart

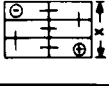
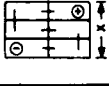
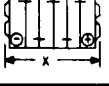
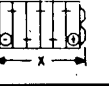
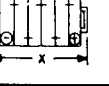
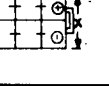
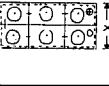
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Documents

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Battery Identification Selection Chart (cont'd)

Volts	12		12		12		12		12		12	
Cell and Terminal Plan												
Approx. Fixed Dimension, in.	6-25/32, 6-13/16 Wide		6-11/16, 6-13/16, 7-1/16 Wide		5-1/2 Wide		4-7/8 Wide		19-5/16 Long		13-1/16 Long	
Fig. No. (1st Symbol)	9		10		11		12		13		14	
Group No. Versus Dimensions	Third Symbol	Max "X" Dim.	Third Symbol	Max "X" Dim.	Third Symbol	Max "X" Dim.	Third Symbol	Max "X" Dim.	Third Symbol	Max "X" Dim.	Third Symbol	Max "X" Dim.
	0	7-13/16	1	9-1/2	1	9-1/2	1	7	1	4	1	4
	1	9-1/2	2	10	2	10-1/2	2	8	2	4-11/32	2	4-25/32
	2	10	3	10-1/2	3	11-1/2	3	9	3	5	3	5-1/2
	3	10-1/4	4	11	4	12-1/2	4	10	4	5-1/2	--	--
	4	11	5	11-3/4	5	13-1/2	5	11	5	6	--	--
	5	11-3/4	6	12	6	14-1/4	--	--	--	--	--	--
	6	12-1/32	7	12-1/4	--	--	--	--	--	--	--	--
	7	12-1/2	8	12-1/2	--	--	--	--	--	--	--	--
	8	13	9	13-1/2	--	--	--	--	--	--	--	--
	9	13-1/2										

Volts	12		12		12		12		12		12		12	
Cell and Terminal Plan														
Approx. Fixed Dimension, in.	13-1/16 Long		13-1/16 Long		6-13/16 Wide		5-1/2 Wide		7-5/8 Wide		21-1/4 21-3/8 Long ^a		20-3/4 Long ^b	
Fig. No. (1st Symbol)	15		16		17		18		19		20		21	
Group No. Versus Dimensions	Third Symbol	Max "X" Dim.	Third Symbol	Max "X" Dim.	Third Symbol	Max "X" Dim.	Third Symbol	Max "X" Dim.	Third Symbol	Max "X" Dim.	Third Symbol	Max "X" Dim.	Third Symbol	Max "X" Dim.
	1	5	1	5	1	9-1/2	0	8-1/8	-1	17-1/2	1	6	1	8-3/4
	2	5-1/2	2	5-1/2	2	10-3/4	1	9-7/16	2	18-1/2	2	7	2	11
	3	6	3	6	3	12-1/2	2	11	3	19-1/2	3	8	--	--
	4	6-17/64	4	6-17/64	--	--	3	13	4	20-1/2	4	8-3/4	--	--
	5	7	5	7	--	--	--	--	5	21-1/2	5	9-1/2	--	--
	--	--	--	--	--	--	--	--	--	--	6	10	--	--
	--	--	--	--	--	--	--	--	--	--	7	10-1/2	--	--
	--	--	--	--	--	--	--	--	--	--	8	11-1/8	--	--
	--	--	--	--	--	--	--	--	--	--	--	--	--	--

^aThe 21-1/4 and 21-3/8 in. dimensions for Fig. 20 are measured over the handles.

^bNo projecting handles. Locating Ledges at four corners at 4 in. height from base.

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