12/21/23 Revised 05/01/24
Subject: Change #11 to SAE/USCAR-2, Revision 8

Changes have been made to the USCAR-2 specification. Comments and questions can be sent to EWCAP@uscar.org.

Situation:

USCAR-2 (Section 5.4.8.3) has the sample size listed. The sample size of 18 (three per connector face) should be listed in Section 5.9.5 instead.

Resolution

The following is effective immediately.

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PERFORMANCE SPECIFICATION FOR
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5.4.8.3 Procedure

1. Prepare ~~18~~ connector assemblies with all components to be used in the intended application (CPA, TPA, PLR, lever / slide, etc.). Lock components as applicable in their design intended pre-staged (shipping) position. For harness type connectors, do not insert leads or terminals.
2. Divide samples into six groups ~~of three samples each for testing X, Y, and Z axis orientation.~~
3. For each group, drop one sample at a time once and only once onto a horizontal concrete surface from a height of at least 1 m, orienting the samples in six groups corresponding to the six connector "faces" of a rectangular connector. Use one group for each orientation shown.
4. Record any damage or movement/separation of components.
5. Verify conformance of each sample connector assembly to the Acceptance Criteria of 5.4.8.4.

5.4.8.4 Acceptance Criteria

1. Samples shall meet the Acceptance Criteria of 5.1.8, Visual Inspection.

TABLES 5.9.3, 5.9.4, AND 5.9.5:

TERMINAL (MECHANICAL AND ELECTRICAL) AND CONNECTOR (MECHANICAL) TEST SEQUENCES

	5.9.3		5.9.4	5.9.5													
Test Name	Term. - Term. Engage/Disengage	Terminal Bend Resistance	Maximum Current/Current Cycling	Term.-Conn. Insertion/Retention	Misc. Component Engage/Disengage	Audible Click	Conn. Conn Mating/Unmating	Polarization Effectiveness	Drop	Cavity Damage	Terminal/Cavity Polarization	Header Pin Retention	Mounting Feature Strength	Mechanical Assist Integrity	Conn. Seal Retention - Unmated	Conn. Seal Retention - Mated	Bolt-mated (Stand Alone)
Test Sequence ID	A	B	C	D	E	F	G	H	I	J	AE	K	L	X	Y	Z	AK
Sample Size minimum (See individual procedures)	10	15/ 30	10	10	10[(1)]	16	15	[(2)]	18	5	3	10	20	5	10	10	10