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Superseding J276 NOV1992

Steering Frame Lock for Articulated Loaders and Tractors

Foreword—This Document has not changed other than to put it into the new SAE Technical Standards Board Format. Definitions are Section 3. All other section numbers have changed accordingly. SAE J1057 has been replaced with SAE J/ISO 6165.

1. **Scope**—This SAE Standard is applicable to articulated frame loaders and tractors as defined by SAE J/ISO 6165, and rollers and compactors as defined by SAE J1017, when equipped with steering, frame locking device. The scope is limited to machines where hazards exist due to maintenance operations.

1.1 **Purpose**—This document provides the performance requirements for a steering, frame locking device which when used will prevent unintended articulation of the machine either during shipment or maintenance operations. In addition, it provides mounting position, storage on the machine and identification requirements.

2. References

2.1 **Applicable Publications**—The following publications form a part of this specification to the extent specified herein. The latest issue of SAE publications shall apply.

2.1.1 SAE PUBLICATIONS—Available from SAE, 400 Commonwealth Drive, Warrendale, PA 15096-0001.

SAE J1017—Nomenclature, Rollers and Compactors

SAE J/ISO 6165—Earthmoving Machinery—Basic Types—Vocabulary

3. Definitions

3.1 **Steering, Frame Locking Device**—One or more links, bars, or equivalent including attaching parts and attaching points to the machine frames.

4. Requirements

4.1 **Mounting Positions**—The device shall be arranged so that it can secure the machine in a straight-ahead position. If it is necessary to articulate the machine to perform maintenance functions, the device shall also provide locking capability in the required articulated position. The device shall be mounted on the side normally used for access to the operator's seat. Appropriate installation or use instructions should accompany the unit.

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- 4.2 Storage on the Machine**—The device with its attaching parts shall be attached to the machine in such a manner that they will not become separated from the machine when in use or in storage on the machine.
- 4.3 Color**—The device, excluding the attaching parts, shall be red on all machines except where the machine color is red. In the case where the machine color is red, the device shall be yellow.
- 4.4 Performance Capability**—The device, including attaching parts and the attachment points on the machine frames for all mounting positions shall not exhibit any permanent structural deformation when a force equal to two times the force that will be induced by the machine steering system at the upper limits specified by the manufacturer is applied.

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