

	SURFACE VEHICLE STANDARD	SAE	J167 APR2011
		Issued	1970-07
		Reaffirmed	2011-04
Overhead Protection for Agricultural Tractors - Test Procedures and Performance Requirements		Superseding J167 AUG2002	

RATIONALE

SAE J167 has been reaffirmed to comply with the SAE 5-Year Review policy.

1. **Scope**—This SAE Standard applies to an overhead cover installed on a protective frame or enclosure conforming to SAE J2194 or alternately SAE J1194 and the following additional requirement of a drop test to verify the effectiveness of the overhead cover in protecting the operator from falling objects.

The test procedures and performance requirements outlined in this document are based on currently available engineering data.

- 1.1 **Purpose**—This document establishes test and performance requirements for overhead protection to minimize the frequency and severity of operator injury due to falling objects encountered in normal operation of a wheeled agricultural tractor.

2. References

- 2.1 **Applicable Publications**—The following publications form a part of this specification to the extent specified herein.

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

SAE J1150 JUN88—Terminology for Agricultural Equipment

SAE J2194 DEC87—Roll-Over Protective Structures (ROPS) for Wheeled Agricultural Tractors

- 2.1.2 ISO PUBLICATIONS—Available from ANSI, 25 West 43rd Street, New York, NY 10036-8002.

ISO 3462—Tractors and machinery for agriculture and forestry—Seat reference point—Method of determination

ISO 3463—Agricultural and forestry wheeled tractors—Protective structures—Dynamic test methods and acceptance conditions

SAE Technical Standards Board Rules provide that: "This report is published by SAE to advance the state of technical and engineering sciences. The use of this report is entirely voluntary, and its applicability and suitability for any particular use, including any patent infringement arising therefrom, is the sole responsibility of the user."

SAE reviews each technical report at least every five years at which time it may be reaffirmed, revised, or cancelled. SAE invites your written comments and suggestions.

Copyright © 2011 SAE International

All rights reserved. No part of this publication may be reproduced, stored in a retrieval system or transmitted, in any form or by any means, electronic, mechanical, photocopying, recording, or otherwise, without the prior written permission of SAE.

TO PLACE A DOCUMENT ORDER: Tel: 877-606-7323 (inside USA and Canada)
Tel: +1 724-776-4970 (outside USA)
Fax: 724-776-0790
Email: CustomerService@sae.org

SAE WEB ADDRESS:

<http://www.sae.org>

SAE values your input. To provide feedback
on this Technical Report, please visit
http://www.sae.org/technical/standards/J167_201104

2.2 Related Publications—The following publications are provided for information purposes only and are not a required part of this document.

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

SAE J231 JAN81—Minimum Performance Criteria for Falling Object Protective Structure (FOPS)

SAE J1043 SEP87—Performance Criteria for Falling Object Protective Structure (FOPS) for Industrial Machines

SAE J1194 MAY89—Roll-Over Protective Structures (ROPS) for Wheeled Agricultural Tractors

2.2.2 ISO PUBLICATIONS—Available from ANSI, 25 West 43rd Street, New York, NY 10036-8002.

ISO 5700—Agricultural and forestry wheeled tractors—Protective structures—Static test method and acceptance conditions

3. Definitions

3.1 An Agricultural Tractor—is defined in 3.1.1 of SAE J1150.

3.2 Seat Reference Point (SRP)—is defined in accordance with ISO 3462 and referenced in paragraph 3.5 of SAE J2194.

4. Description—This document applies to an overhead cover extending above and over the operator's seat as mounted on a protective frame conforming generally to Figure 1.

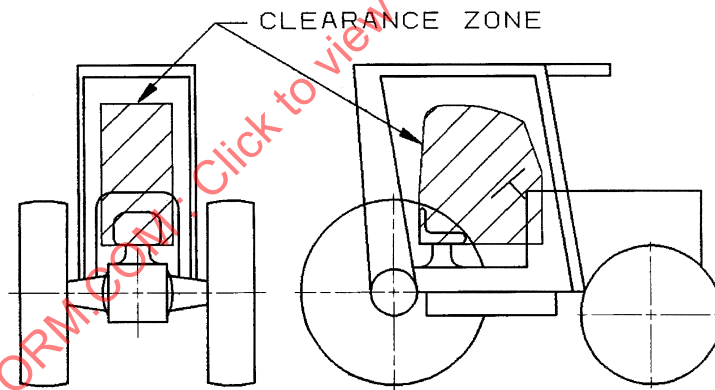


FIGURE 1—TRACTOR WITH TYPICAL OVERHEAD FRAME AND OVERHEAD COVER

5. Specifications for Overhead Cover—The overhead cover may be constructed of a solid material. If grid or mesh is used, the largest permissible opening shall be such that a 38 mm diameter circle is the maximum circle that can be inscribed between the elements of grid or mesh.