

Crane Boom Hoist Disengaging Device

Foreword—This Reaffirmed Document has been changed only to reflect the new SAE Technical Standards Board Format.

1. **Scope**—This SAE Standard applies to cranes which are equipped to adjust the boom angle by hoisting and lowering means through rope reeving.
- 1.1 **Purpose**—The purpose of this standard is to define the function and to stipulate the requirements of an automatic device to prevent raising a variable angle boom above its highest specified angle.
2. **References**—There are no referenced publications specified herein.
3. **Function**—The function of the device shall be to provide means for automatic disengagement of the boom hoisting power to prevent the boom from exceeding its highest specified angle approved for operation.
4. **Requirements**
 - 4.1 The device, when properly installed and adjusted, shall automatically and completely disengage the boom hoisting power from the boom hoist drum when the boom has reached its highest specified angle. When power is thus disengaged, the boom hoist drum shall automatically be restrained from motion in the lowering direction under any rated condition.
 - 4.2 The device shall be provided with suitable adjustments for obtaining the specified angle.
 - 4.3 Where necessary, the device shall be provided with means for the operator's use in momentarily re-engaging the boom hoisting power for unloading locking devices in order to lower the boom.

SAENORM.COM : Click to view the full PDF of J999 - 199807

PREPARED BY THE SAE CRANES AND LIFTING DEVICES COMMITTEE

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.

TO PLACE A DOCUMENT ORDER; (724) 776-4970 FAX: (724) 776-0790
SAE WEB ADDRESS <http://www.sae.org>