



SURFACE VEHICLE STANDARD

J700™

NOV2020

Issued	1940-01
Reaffirmed	2001-04
Stabilized	2011-07
Revised	2020-11

Superseding J700 JUL2011

Upper Coupler Kingpin - Commercial Trailers and Semitrailers

RATIONALE

This document is updated to correct typographical errors in Figures 1 and 2 related to a dimension description.

1. SCOPE

This SAE Standard applies to upper coupler kingpins for commercial trailers and semitrailers in the unladen condition. See Figure 1. A 90 degree $\pm$ 1 degree angle extends (in all directions) from the centerline of the kingpin to the upper coupler plate surface within a 48.26 cm (19 inch) radius. The upper coupler plate surface should not bow downward (convex) more than 0.635 cm (1/4 inch) within a 48.26 cm (19 inch) radius or more than 0.3175 cm (1/8 inch) at a radius of 25.4 cm (10 inches) from the kingpin. The upper coupler plate surface should not bow upward (concave) more than 0.15875 cm (1/16 inch) within a 48.26 cm (19 inch) radius. (See Figure 2.)

NOTE: For recommended performance, refer to SAE J133.

2. REFERENCES

2.1 Applicable Documents

The following publications form a part of this specification to the extent specified herein. Unless otherwise indicated, the latest issue of SAE publications shall apply.

2.1.1 SAE Publications

Available from SAE International, 400 Commonwealth Drive, Warrendale, PA 15096-0001, Tel: 877-606-7323 (inside USA and Canada) or +1 724-776-4970 (outside USA), www.sae.org.

SAE J133 Fifth Wheel Kingpin Performance - Commercial Trailers and Semitrailers

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 revised, reaffirmed, stabilized, or cancelled. SAE invites your written comments and suggestions.

Copyright © 2020 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
<http://www.sae.org>

SAE WEB ADDRESS:

For more information on this standard, visit
https://www.sae.org/standards/content/J700_202011

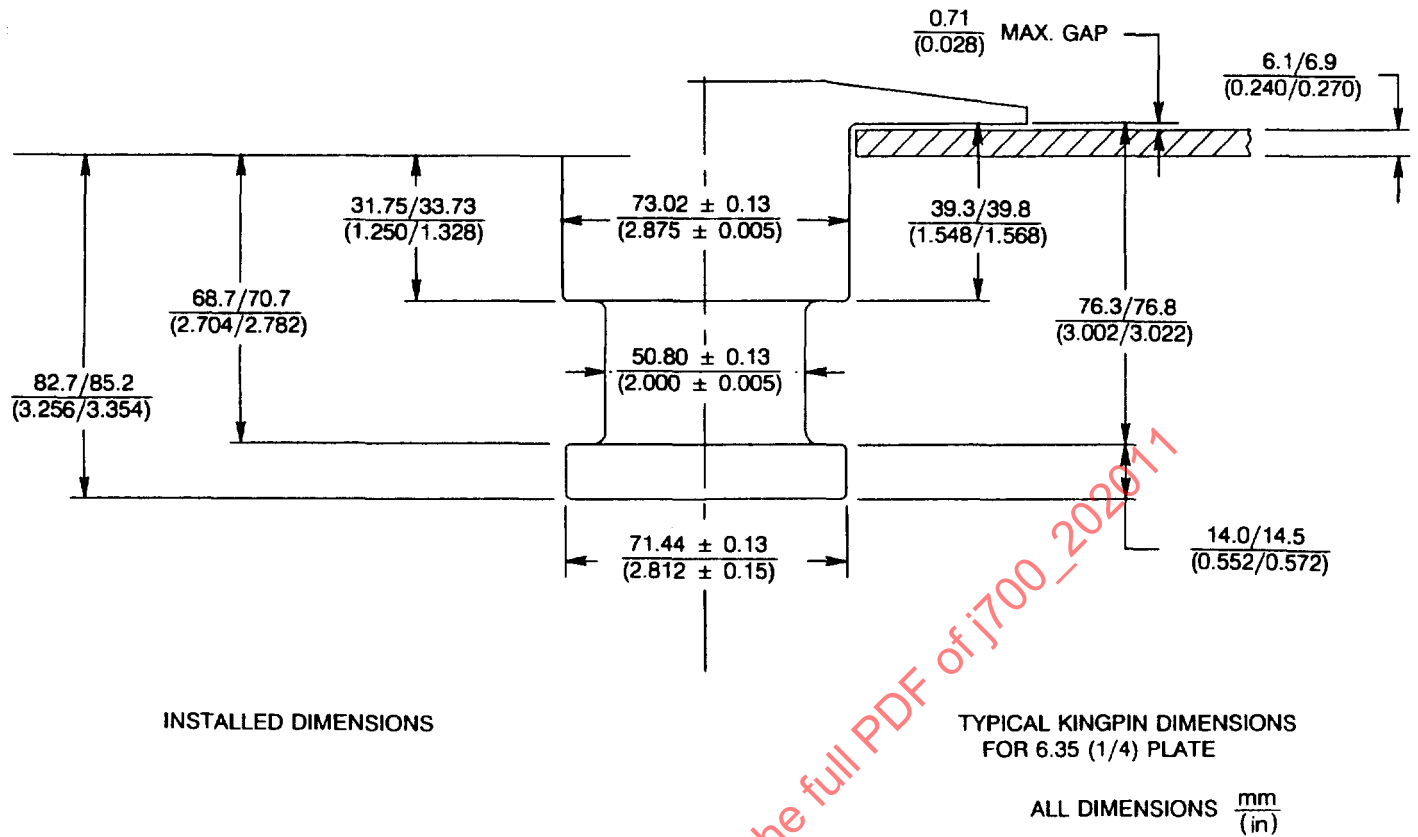


Figure 1 - Upper coupler kingpin