



400 Commonwealth Drive, Warrendale, PA 15096-0001

SURFACE VEHICLE STANDARD

SAE J700

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APR2001

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Submitted for recognition as an American National Standard

Upper Coupler Kingpin—Commercial Trailers and Semitrailers

- Scope**—This SAE Standard applies to upper coupler kingpins for commercial trailers and semitrailers in the unladen condition. See Figure 1. A 90 degree ± 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 in) radius. The upper coupler plate surface should not bow downward (convex) more than 0.635 cm (1/4 in) within a 48.26 cm (19 in) radius or more than 0.3175 cm (1/8 in) at a radius of 25.4 cm (10 in) from the kingpin. The upper coupler plate surface should not bow upward (concave) more than 0.15875 cm (1/16 in) within a 48.26 cm (19 in) radius. (See Figure 2.)

NOTE—For recommended performance, see SAE J133.

2. References

- 2.1 Applicable Publication**—The following publication forms a part of this specification to the extent specified herein. The latest issue of SAE publications shall apply.

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

SAE J133—Fifth Wheel Kingpin Performance—Commercial Trailers and Semitrailers

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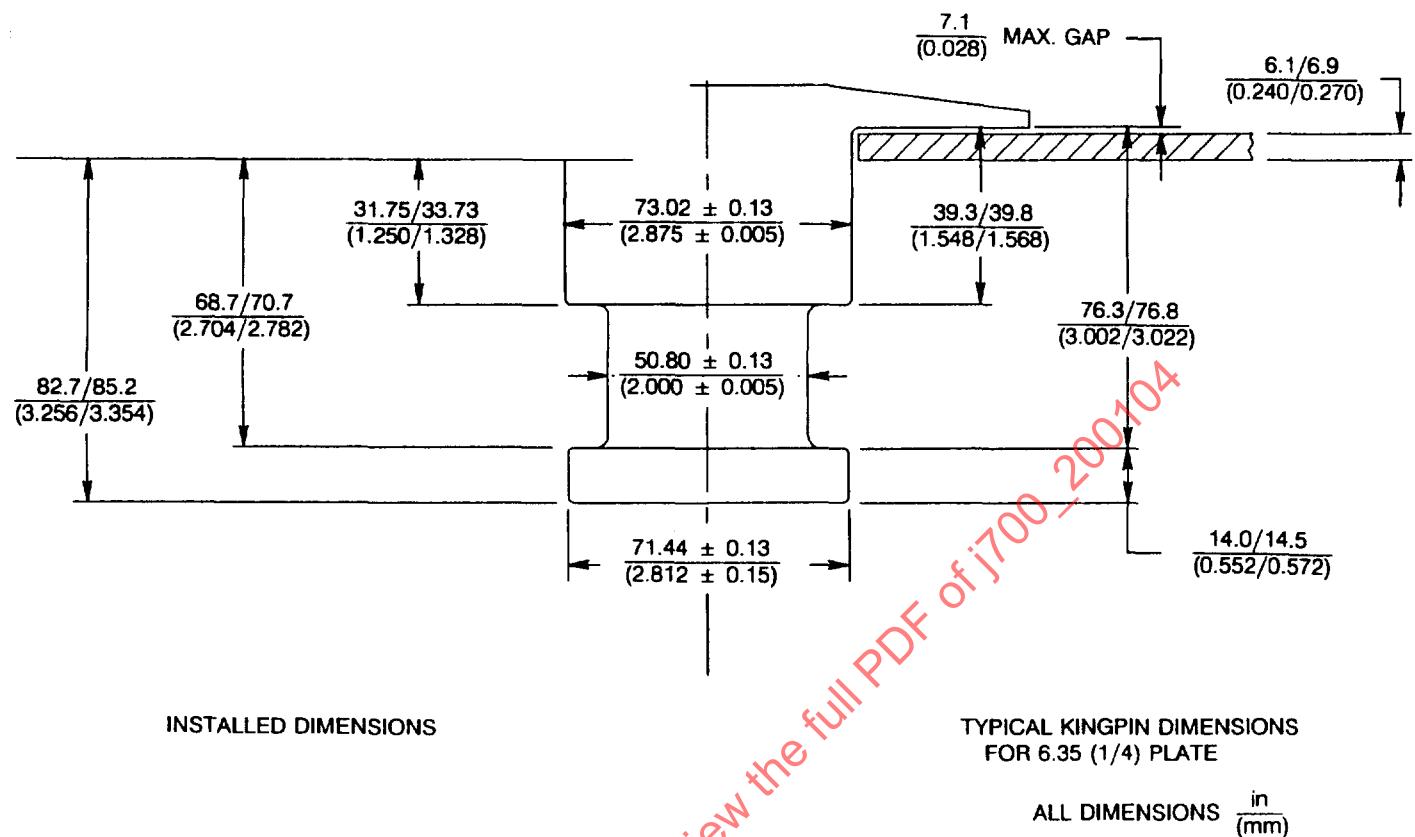


FIGURE 1—UPPER COUPLER KINGPIN

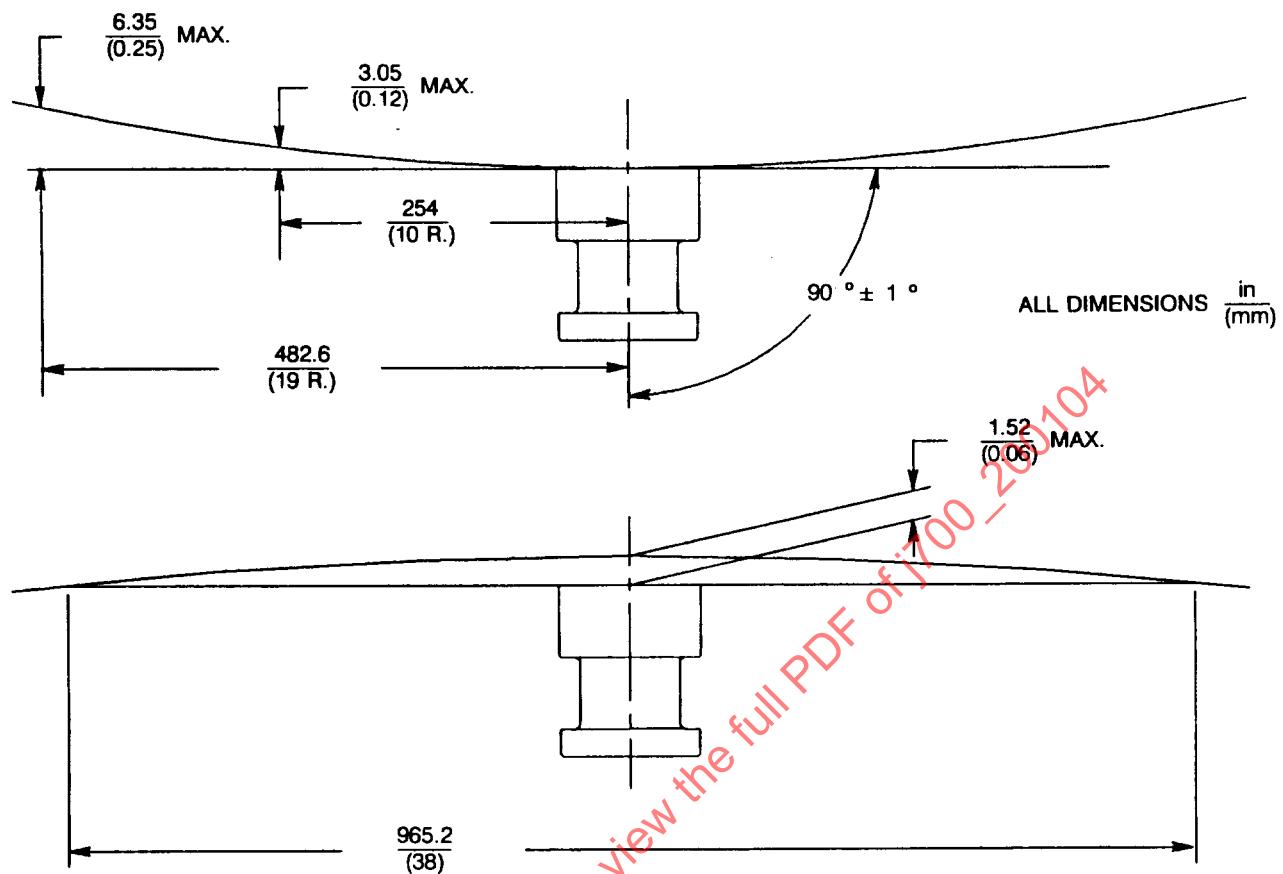


FIGURE 2—ALLOWABLE UPPER COUPLER PLATE BOWING

PREPARED BY THE SAE TRUCK AND BUS FIFTH WHEEL SUBCOMMITTEE OF THE
SAE TRUCK AND BUS CHASSIS COMMITTEE