

TECHNICAL PROCEDURE

HCA[®] HENDRICKSON CHASSIS AXLE[™] AND TRLAXLE[®]

SUBJECT: Weld-on ABS Bracket
Field Installation Procedure

LIT NO: L1094

DATE: September 2015

REVISION: A

INSTALLING THE ABS BRACKET

This kit is intended for field installation of weld-on ABS brackets on Hendrickson loose axles.

NOTE: Only a properly trained and certified welder should perform the welding. Follow all applicable safety rules and regulations for welding, including but not limited to, wearing proper eye protection and other personal protective equipment, working in a well ventilated area and keeping all flammable and combustible materials out of the work area. Refer to *L64 Welding Procedures* general weld guidelines and specifications.

IMPORTANT: This procedure **does not apply** to rotor mounted tone rings with ABS sensors inserted into the torque plate.

1. **Remove** wheel, brake drum, brake shoes and hub.

NOTE: For complete removal details and safety information, refer to Hendrickson literature number L578 *Preventive Maintenance Guide*. It includes a list of wheel-end maintenance literature.

2. **Prepare** mating surfaces for welding. The mounting area on the axle and the ABS bracket must be free of moisture, dirt, scale, paint and grease. The axle and the ABS bracket must also have a minimum temperature of 60°F (16°C).

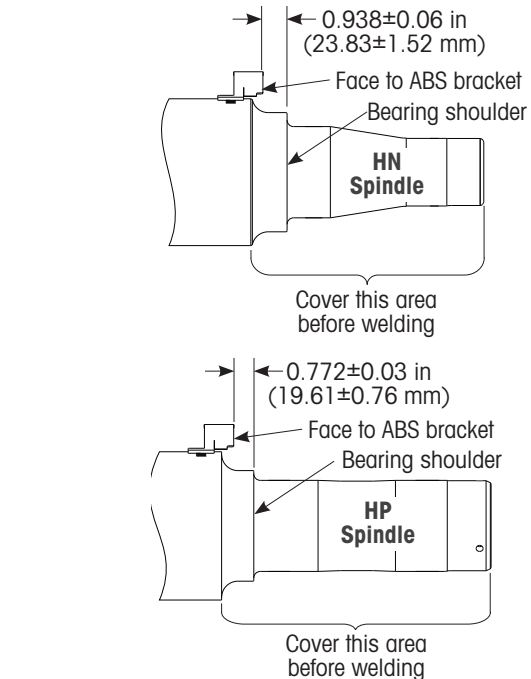


Figure 1: Positioning ABS bracket along length of the axle

3. To position the ABS bracket along the length of the axle, **measure** back (inboard) from the bearing shoulder to the face of the ABS bracket the distance indicated in Figure 1.

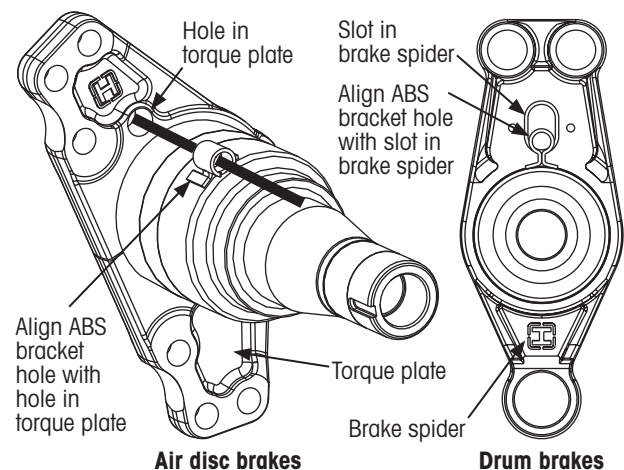


Figure 2: Aligning ABS bracket with brake spider slot

- To position the ABS bracket around the outside diameter of the axle (Figure 2), **align** the center of the ABS bracket hole with the center of the slot in the brake spider or with the center of the hole in the torque plate.

IMPORTANT: The ABS bracket hole must be aligned with the slot in the brake spider or with the hole in the torque plate. If off center, the ABS sensor may not clear the brake spider or torque plate during installation.

- Ensure** the ABS bracket is flat against the axle and properly aligned. The ABS bracket must not be tilted or askew (Figure 3).
- Temporarily **clamp** the bracket in place.
- Verify** the ABS bracket is in the proper location.
- Insert** an ABS sensor into the bracket to ensure adequate clearance with the brake spider and the hub.
- Cover** spindle area.

IMPORTANT: It is necessary to cover the entire spindle area (as shown in Figure 1) to avoid weld splatter damage.

- With ABS bracket location and sensor clearance are verified, **weld** the ABS bracket to the axle with a 1/8 inch (3 mm) fillet weld (Figure 4).

- When cool, **remove** the clamp.

- Apply** surface coat as needed.

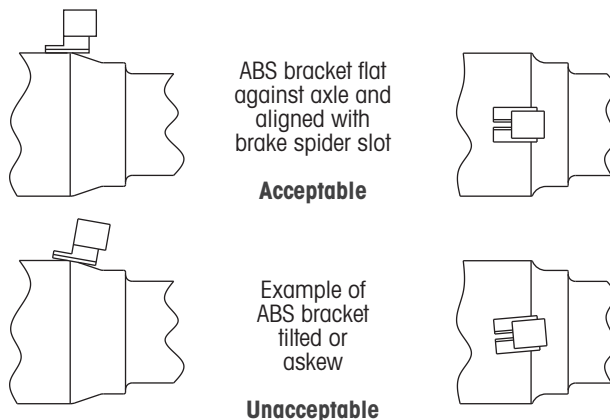
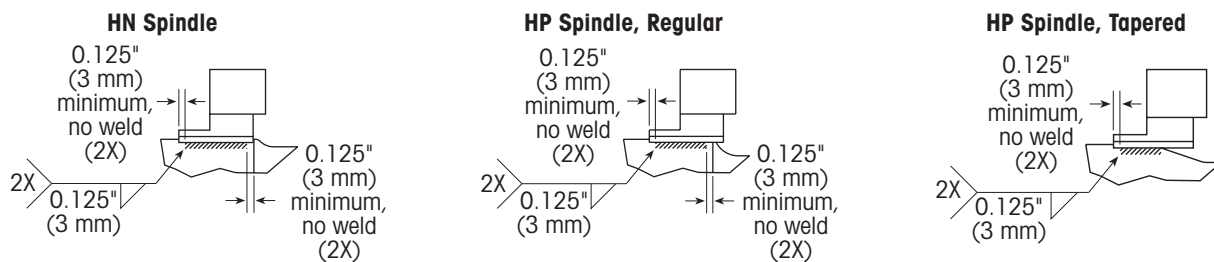


Figure 3: Properly positioning ABS bracket



////// Denotes weld placement

Figure 4: Weld details

Call Hendrickson at **866.RIDEAIR (743.3247)** for additional information.



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