

Technical Bulletin



TimpTE, Inc
1827 Industrial Drive
David City, NE 68632
(402) 367-3056
Fax: (402) 367-4340

To: TimpTE Branch Parts and Service Personnel, TimpTE Sales Team, TimpTE Dealer Personnel

From: Product Engineering

Date: April 3, 2018

Technical Bulletin #: 3

Subject:

Solid Lube Plate Care and Maintenance

Description:

Review of care and maintenance requirements for Solid Lube Plates used with aluminum and steel upper couplers as wear surfaces to extend the life of the coupler

Process Review:

Solid Lube (Final Lube) “Care and Maintenance” Instructions

- Always be sure 5th wheels are deburred before pinning up (connecting tractor to) trailer equipped with Solid Lube Plate
- Apply lubricant during every regular PM or a minimum of every two months
 - Two choices for lubricant
 - i. Dry Graphite
 - Apply to the 5th wheel plate and the poly plate
 - ii. 85/140W Gear Lube or Motor Oil
 - Apply only to the 5th Wheel Plate. This step is only recommended to protect from corrosion.
 - This will not affect the self-lubricating properties of Solid Lube Plate
- 5th Wheel Jaws will require regular maintenance (grease). This action can be performed while trailer is pinned (connected) to tractor
- If Driver has a sense of “running dry” it is probably due to a completely dry 5th Wheel. Lubricate per above (instructions)
- Operating with a greased 5th Wheel will not affect Solid Lube Plate operation but adding grease will cause more dirt and grime to collect from the road which will require more frequent cleaning and may accelerate the wear of lube plate due to contaminants trapped in the grease.

IMPORTANT: Solid Lube Plates cannot be used with tractor 5th wheel plates equipped with poly wear pads. Two poly plates in this orientation will weld together, causing failure of the Solid Lube Plate. This failure is non-warrantable.

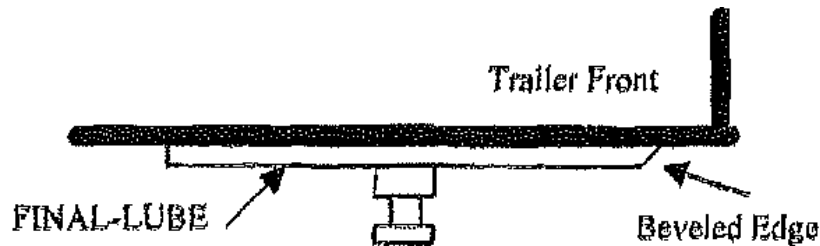
Installation Instructions – Solid Lube Plate (Final Lube)

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1. Degrease both 5th wheel and Upper Coupler Plate with solvent or steam-clean to remove all grease;
 - a. Important: Avoid water behind Bottom Plate when steam cleaning, dry surfaces completely prior to next step
2. Apply a glaze of rust inhibitor to Coupler Bottom Plate to prevent corrosion or decay
3. Place Solid Lube Plate on Upper Coupler as shown below



- a. NOTE: beveled edge to front of trailer ensuring Solid Lube Plate is flat during installation
4. Mark and install two (2) fasteners at a time, always working from holes closest to king pin outward
5. Use Loctite to secure fasteners, one drop for each fastener at thread interface to secure fasteners.
 - NOTE: Fastener heads (Flathead) should be installed $\frac{1}{8}$ " below Solid Lube Plate surface to ensure clearance between 5th wheel and fastener head face.
 - **Use only Timpte specified fasteners to insure proper chamfer, fit and head height.**
 - Replace fasteners in existing holes if possible when replacing Solid Lube Plate. Otherwise, locate and drill new holes
 - i. 0.344" ID for alum bottom plate ($\frac{11}{32}$ drill max.)
 - ii. 0.354" for steel bottom plate (9mm drill or English equivalent max.)

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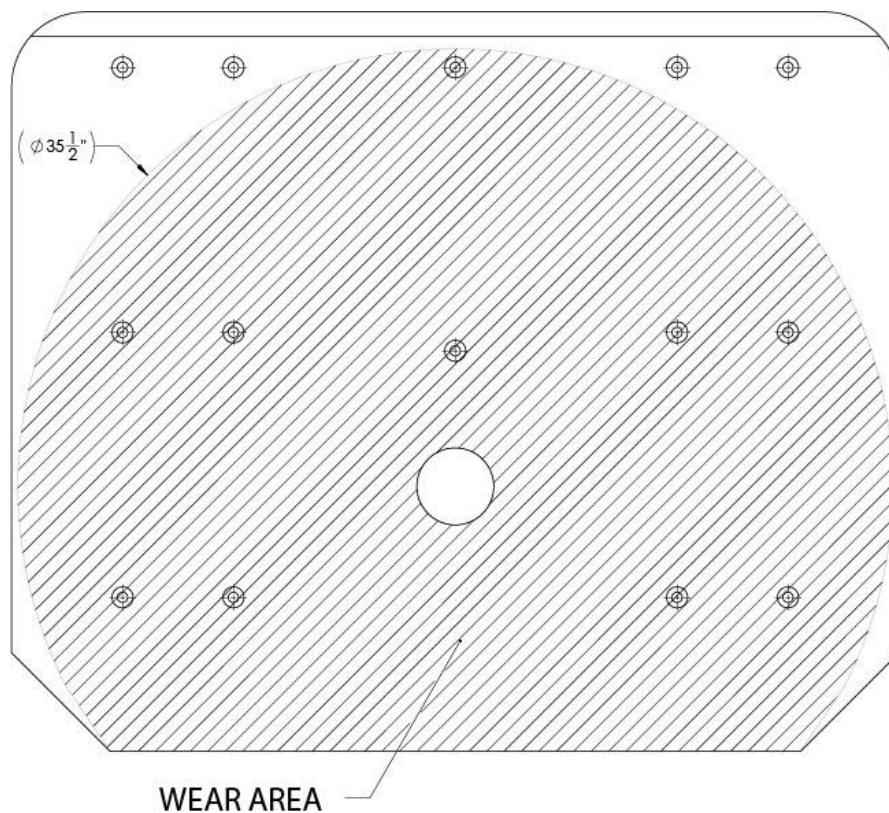


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Wear Area for Solid Lube Plate

Please find below in the figure, the defined wear area for Solid Lube Plate inspection. **The allowable wear depth is no more than .100"**. Once the Lube Plate wears 3/32nds of an inch, it must be replaced. If you see that the heads of the screws are starting to wear or rub on the 5th wheel plate, you have waited too long and you must replace the wear plate immediately.

The poly lube plate is a wearable item and its replacement is not warrantable if it is replaced due to wear.



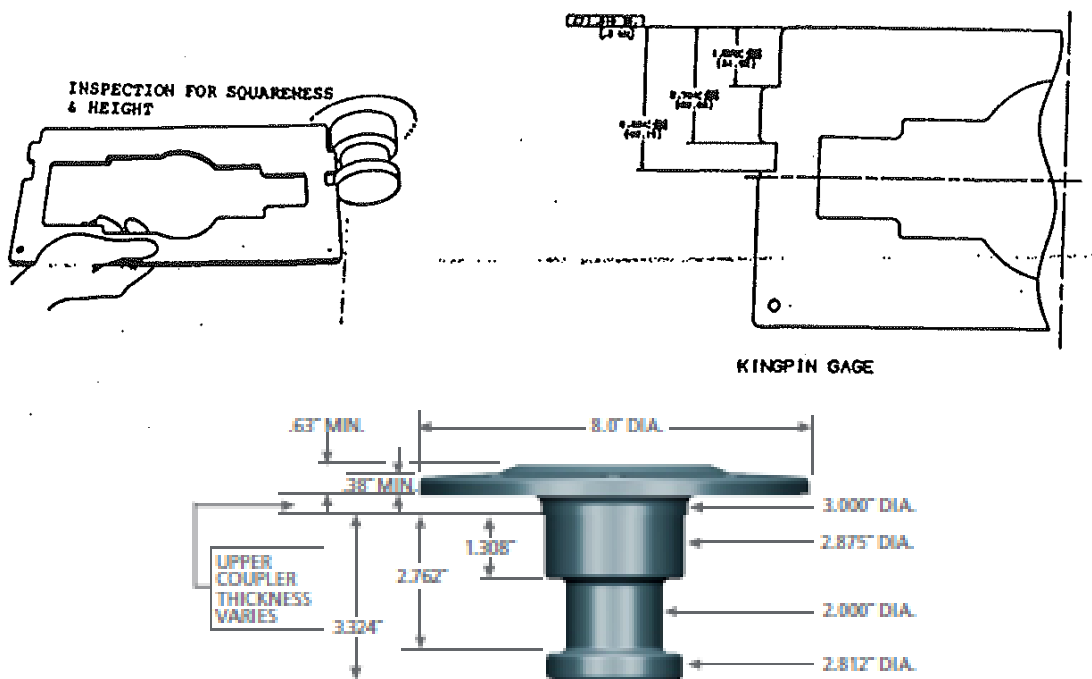
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Use a **King Pin** length gauge to inspect for proper King Pin to Tractor 5th wheel plate interface

- Refer to SAE Standard #J2228 for gauge and measuring detail
- Also covered in Timpte Hopper Owner's Manual, page 11



- King Pin Gauge (pictured above) is used to confirm distance between 2.762" and 1.308" dimension for KP to tractor 5th wheel plate interface (effective range allowed 0.090"-0.100")
 - Gauge also confirms the King Pin effective diameter (2.000" dia.) for proper tractor to trailer coupling
 - Failure to check this regularly and maintain proper kingpin length and diameter could result in incomplete coupling between the tractor and trailer which could result in accelerated component wear and even possibly detachment of the trailer from the tractor.
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- **Check the Poly Wear Plate for wear at a minimum of every two months.**
 - **Replace immediately if worn (allow 3/32" wear)**
 - **Check/Replace immediately if retainer flat head bolt face damaged or worn)**
 - **Check kingpin length and diameter for wear at the same time.**