



DOCUMENT #1

Communication ID# 45B-001-2023

Technical Service Bulletin

Email to Retail Customers to Advise of Impending TSB

June 23, 2023



**RE: Technical Service Bulletin (TSB)  
2024 Model Z – Trailer Brakes  
Lippert TSB#45B-001-2023**

Dear <Retail Customer>:

We would like to address some of the questions that have surfaced regarding a potential brake concern on the Lippert axles used on Model Z. Although this issue has only affected some units, we have made the decision to replace all brake and hub assemblies on the Model Z units with the following serial numbers (last 6 of your VIN):

**000004 to 000512, 000514, 000516, 000517, 000518, 000521 to 000535, 000539, 000540, 000542, 000543, 000545, 000546, 000547, 000551 to 000555, 000557, and 000558.**

**If you received this correspondence, your VIN is contained within the list of affected units.**

You are our #1 priority and we have been in constant communication with our axle supplier regarding this issue. Lippert will be issuing a Technical Service Bulletin (TSB) to our dealers on or around **Monday, June 26, 2023** providing dealers with immediate authorization to replace hub and brake assemblies on the above-mentioned units. Lippert will be working with dealers to facilitate and expedite parts shipments.

***If you have an upcoming delivery and your VIN falls within the scope, please contact Lippert with your dealer's name and VIN number and they will work with the dealer to expedite parts. We will all do everything in our power to complete the TSB prior to your delivery date.***

**It should go without saying that if you are experiencing diminished braking performance, you should have the TSB completed before you continue to use your RV. Even though we may be acting in an overabundance of caution by completely replacing the hub and brake assemblies, we ask that you treat this with a sense of urgency.**

If you are not near an authorized Brinkley dealer, or if you are in immediate need, Lippert may have a field service technician in your area who could travel to your location to perform the TSB. If you need help facilitating completion of the TSB or have any questions regarding your brakes, please email the Lippert Hotline at [BrinkleyModelZTSB@LCI1.com](mailto:BrinkleyModelZTSB@LCI1.com).

*We have taken the liberty of answering a couple of what we expect to be frequently asked questions:*

- 1. We are supposed to take delivery next week and our VIN falls within the scope, can we still pick up our RV?**

*Yes, we believe so. Please contact Lippert with your dealer's name and unit number and they will work with the dealer to expedite parts. We will all do everything in our power to complete the TSB prior to your delivery date.*

- 2. We are planning on taking a trip next week, and our VIN falls within the scope, are we still going to be able to go?**

*If you are experiencing diminished braking, you should have your vehicle inspected and the TSB completed at your earliest convenience. If you are not experiencing diminished braking, you should monitor braking performance carefully and if you begin to experience diminished braking, take your vehicle in for service.*

- 3. We are currently on the road using our Brinkley, what should we do?**

*If you are experiencing diminished braking, you should have your vehicle inspected and the TSB completed at your earliest convenience. If you are not experiencing diminished braking, you should monitor braking performance carefully and if you begin to experience diminished braking, take your vehicle in for service.*

- 4. How long is the process to change the hubs and brakes out?**

Between 4 and 5 hours is the estimated time to replace all 4 brakes and hubs.

You will also be receiving a copy of this correspondence via mail to the address that we have on file. We intend to include a copy of the Lippert TSB with this mailed letter so that you have all of the information that is available.

We apologize in advance for any inconvenience this may cause. As campers, we understand the importance of utilizing your unit during the peak of the camping season and will work our hardest to keep you camping.

If any questions or concerns should arise, please do not hesitate to contact our Customer Care Team at [CustomerCare@BrinkleyRV.com](mailto:CustomerCare@BrinkleyRV.com) or (574) 501-4280.



Document #2

Communication ID# 45B-001-2023

Technical Service Bulletin

Social Media Post - Notice to Retail Customers  
of Impending Technical Service Bulletin

June 24, 2023



*Dear Model Z Owners & Friends:*

*We want to take a moment and thank you for being a part of the Brinkley family! We would like to address some of the questions that have surfaced regarding a potential brake concern on the Lippert axles used on Model Z.*

*Although this issue has only affected some units, we have made the decision to replace all brake and hub assemblies on the Model Z units with the following serial numbers (last 6 of your VIN):*

***000004 to 000512, 000514, 000516, 000517, 000518, 000521 to 000535, 000539, 000540, 000542, 000543, 000545, 000546, 000547, 000551 to 000555, 000557, and 000558.***

*You are our #1 priority and we have been in constant communication with our axle supplier regarding this issue. Lippert will issuing a Technical Service Bulletin (TSB) to our dealers providing them immediate authorization to replace hub and brake assemblies on the above-mentioned units. Lippert will be working with dealers to facilitate and expedite parts shipments.*

***If you have an upcoming delivery and your VIN falls within the scope, please contact Lippert with your dealer's name and VIN number and they will work with the dealer to expedite parts. We will all do everything in our power to complete the TSB prior to your delivery date.***

***It should go without saying that if you are experiencing diminished braking performance, you should have the TSB completed before you continue to use your RV. Even though we may be acting in an overabundance of caution by completely replacing the hub and brake assemblies, we ask that you treat this with a sense of urgency.***

*If you are not near an authorized Brinkley dealer, or if you are in immediate need, Lippert may have a field service technician in your area who could travel to your location to perform the TSB. If you need help facilitating completion of the TSB or have any questions regarding your brakes, please email the Lippert Hotline at [BrinkleyModelZTSB@LCI1.com](mailto:BrinkleyModelZTSB@LCI1.com).*

*We have taken the liberty of answering a couple of what we expect to be frequently asked questions:*

- 1. We are supposed to take delivery next week and our VIN falls within the scope, can we still pick up our RV?***

*Yes, we believe so. Please contact Lippert with your dealer's name and unit number and they will work with the dealer to expedite parts. We will all do everything in our power to complete the TSB prior to your delivery date.*

- 2. We are planning to take a trip next week, and our VIN falls within the scope, are we still going to be able to go?**

*If you are experiencing diminished braking, you should have your vehicle inspected and the TSB completed at your earliest convenience. If you are not experiencing diminished braking, you should monitor braking performance carefully and if you begin to experience diminished braking, take your vehicle in for service.*

- 3. We are currently on the road using our Brinkley, what should we do?**

*If you are experiencing diminished braking, you should have your vehicle inspected and the TSB completed at your earliest convenience. If you are not experiencing diminished braking, you should monitor braking performance carefully and if you begin to experience diminished braking, take your vehicle in for service.*

- 4. How long is the process to actually change these hubs and brakes out?**

Between 4 and 5 hours is the estimated time to replace all 4 brakes and hubs.

*We apologize in advance for any inconvenience this may cause. As campers, we understand the importance of utilizing your unit during the peak of the camping season and will work our hardest to keep you camping.*

*If any questions or concerns should arise, please do not hesitate to contact our Customer Care Team at [CustomerCare@BrinkleyRV.com](mailto:CustomerCare@BrinkleyRV.com) or (574) 501-4280.*



Document #3

Communication ID# 45B-001-2023

Technical Service Bulletin

Email to Dealers - Notice of Impending

Technical Service Bulletin

June 24, 2023



Dear Valued Brinkley Dealer Partners,

As some of you are aware, Model Z has had some brake issues occurring in the field. We are awaiting Lippert's TSB that we should receive Monday. We will provide you with the document and work instructions as soon as possible.

So that you are aware, we recently posted the following in our Facebook owners groups: [https://www.brinkleyrv.com/wp-content/uploads/2023/06/Brinkley-Lippert-Brake-TSB-003-6-23-23-Fi\\_230624\\_140051.pdf](https://www.brinkleyrv.com/wp-content/uploads/2023/06/Brinkley-Lippert-Brake-TSB-003-6-23-23-Fi_230624_140051.pdf)

We appreciate your assistance in advance in helping us to take care of our collective customers. Please contact our Customer Care Team at [CustomerCare@BrinkleyRV.com](mailto:CustomerCare@BrinkleyRV.com) or (574) 501-4280 if you have any questions or need our assistance to facilitate the repairs.

Thank you for your partnership.



Document #4

Communication ID# 45B-001-2023

Technical Service Bulletin

Brinkley RV Dealer Portal Announcement

Notice to Dealers of Email Sent to Retail Customers

Of Impending Technical Service Bulletin

Posted June 23, 2023

**THIS CORRESPONDENCE WAS EMAILED TO ALL RETAIL CUSTOMERS TO ADVISE THEM OF THE UPCOMING LIPPERT TSB THAT SHOULD BE RELEASED ON OR AROUND MONDAY, JUNE 23, 2023. WE ARE PROVIDING TO YOU AS AN FYI AND WILL PROVIDE YOU WITH THE ACTUAL TSB AND WORK INSTRUCTIONS ASAP.**

**[See Document #1 above. This document is incorporated by reference herein. The Dealers were provided with a copy of the actual email that we sent to retail customers]**



DOCUMENT #5

Communication ID# 45B-001-2023

Technical Service Bulletin

Second Email to Retail Customers

Notice of TSB

June 27, 2023



**RE: Technical Service Bulletin (TSB)  
2024 Model Z – Trailer Brakes  
Lippert TSB#45B-001-2023**

Dear <Retail Customer>:

We are writing to inform you that we have now received a copy of the Technical Service Bulletin (TSB) from Lippert. We are in the process of also sending a follow up to all Dealers so that everyone is aware that this document is complete and parts can now be ordered to effectuate the work. For your information, a copy of the TSB can be found by clicking on the following link: <https://www.brinkleyrv.com/Curt-TSB-45B>.

*If you have an upcoming delivery and your VIN falls within the scope, please contact Lippert with your dealer's name and VIN number and they will work with the dealer to expedite parts. We will all do everything in our power to complete the TSB prior to your delivery date. The email to utilize to contact Lippert is [BrinkleyModelZTSB@lci1.com](mailto:BrinkleyModelZTSB@lci1.com).*

*If you would like for us to assist in coordinating with Lippert, please do not hesitate to contact us at [CustomerCare@BrinkleyRV.com](mailto:CustomerCare@BrinkleyRV.com) or (574) 501-4280. We are here to help.*

**It should go without saying that if you are experiencing diminished braking performance, you should have the TSB completed before you continue to use your RV. Even though we may be acting in an overabundance of caution by completely replacing the hub and brake assemblies, we ask that you treat this with a sense of urgency.**

If you are not near an authorized Brinkley dealer, or if you are in immediate need, Lippert may have a field service technician in your area who could travel to your location to perform the TSB. If you need help facilitating completion of the TSB or have any questions regarding your brakes, please email the Lippert Hotline at [BrinkleyModelZTSB@LCI1.com](mailto:BrinkleyModelZTSB@LCI1.com).

*We have taken the liberty of answering a couple of what we expect to be frequently asked questions:*

- 1. We are supposed to take delivery next week and our VIN falls within the scope, can we still pick up our RV?**

*Yes, we believe so. Please contact Lippert with your dealer's name and unit number and they will work with the dealer to expedite parts. We will all do everything in our power to complete the TSB prior to your delivery date.*

- 2. We are planning on taking a trip next week, and our VIN falls within the scope, are we still going to be able to go?**

*If you are experiencing diminished braking, you should have your vehicle inspected and the TSB completed at your earliest convenience. If you are not experiencing diminished braking, you should monitor braking performance carefully and if you begin to experience diminished braking, take your vehicle in for service.*

- 3. We are currently on the road using our Brinkley, what should we do?**

*If you are experiencing diminished braking, you should have your vehicle inspected and the TSB completed at your earliest convenience. If you are not experiencing diminished braking, you should monitor braking performance carefully and if you begin to experience diminished braking, take your vehicle in for service.*

- 4. How long is the process to change the hubs and brakes out?**

Between 4 and 5 hours is the estimated time to replace all 4 brakes and hubs.

You will also be receiving a notice of the TSB via mail to the address that we have on file. We intend to include a copy of the Lippert TSB with this mailed letter so that you have all of the information that is available.

We apologize in advance for any inconvenience this may cause. As campers, we understand the importance of utilizing your unit during the peak of the camping season and will work our hardest to keep you camping.

If any questions or concerns should arise, please do not hesitate to contact our Customer Care Team at [CustomerCare@BrinkleyRV.com](mailto:CustomerCare@BrinkleyRV.com) or (574) 501-4280.



Document #6

Communication ID# 45B-001-2023

Technical Service Bulletin

Second Email to Dealers

Notice of TSB

June 27, 2023



**RE: Technical Service Bulletin (TSB)  
2024 Model Z – Trailer Brakes  
Lippert TSB#45B-001-2023**

Dear Dealer Partners:

We are writing to follow up on our previous email sent last weekend and to inform you that we have now received a copy of the Technical Service Bulletin (TSB) from Lippert. A copy of the TSB can be found by clicking on the following link: <https://www.brinkleyrv.com/Curt-TSB-45B>.

The TSB includes all instructions pertaining to the TSB. Of note are the following:

1. **Ordering Parts for the TSB.** The TSB document requires that all parts be ordered by supplying the Brinkley Model Z VIN. Please also include the shipping address as well to help expedite the parts. All parts orders should be emailed to Lippert at [BrinkleyModelZTSB@lci1.com](mailto:BrinkleyModelZTSB@lci1.com).
2. **Part Number to Order.** The part number is also indicated in the TSB and is **2023040017**. This part number is a kit that includes all parts needed to complete the repairs.
3. **Time Allotted.** Lippert is providing 2.5 hours per axle for labor reimbursement.
4. **Parts Returned.** Lippert is requesting that all parts removed from the unit and replaced by the parts kit be returned to them. Lippert will reimburse you for the shipping costs associated with returning the parts. The Returned parts must reference the Brinkley Model Z VIN that the parts were removed from.
5. **No Pre-Authorization or Inspection Required.** There is no Pre-Authorization required. Further, there is no need to inspect or diagnose the brakes prior to performing the repair. Lippert is electing to replace all hubs and brakes on affected Model Z VINs.
6. **Replace All Parts Provided.** To ensure that the repair is completely effective, Lippert is requesting that all parts provided within the kit be utilized in the repair and that none of the previous parts be re-used.

A copy of the TSB will be placed on our Dealer Portal immediately as well and reference the affected VINs. Our Dealer Portal also allows you to check VINs for transient owners and not just units that your dealership has personally sold.

We thank you in advance for your time and attention to this TSB and your cooperation on getting our collective customers taken care of as soon as possible.

If you have any questions or concerns, please do not hesitate to contact us:

**Brinkley Customer Care**

[CustomerCare@BrinkleyRV.com](mailto:CustomerCare@BrinkleyRV.com)

574 (501-4280).



Document #7

Communication ID# 45B-001-2023

Technical Service Bulletin

Letter Mailed to Retail Customers – TSB Notification

June 28, 2023



<Retail Customer Name>

<Retail Customer Address>

**RE: Technical Service Bulletin (TSB)  
2024 Model Z – Trailer Brakes  
Lippert TSB# 45B-001-2023**

Dear <Retail Customer>:

We would like to address some of the questions that have surfaced regarding a potential brake concern on the Lippert axles used on Model Z. Although this issue has only affected some units, we have made the decision to replace all brake and hub assemblies on the Model Z units with the following serial numbers (last 6 of your VIN):

**000004 to 000512, 000514, 000516, 000517, 000518, 000521 to 000526, 000528 to 000535, 000539, 000540, 000542, 000543, 000545, 000546, 000547, 000551 to 000555, 000557, and 000558.**

**If you received this correspondence, your VIN is contained within the list of affected units.**

You are our #1 priority and we have been in constant communication with our axle supplier regarding this issue. Lippert initiated a Technical Service Bulletin (TSB) to our dealers on or around Tuesday, June 27, 2023 providing our dealers with immediate authorization to replace hub and brake assemblies on the above-mentioned units. Lippert will be working with dealers to facilitate and expedite parts shipments.

A copy of the TSB can be obtained by following this link: <https://www.brinkleyrv.com/Curt-TSB-45B>.

**It should go without saying that if you are experiencing diminished braking performance, you should have the TSB completed before you continue to use your RV. Even though we may be acting in an overabundance of caution by completely replacing the hub and brake assemblies, we ask that you treat this with a sense of urgency.**

If you are not near an authorized Brinkley dealer, or if you are in immediate need, Lippert may have a field service technician in your area who could travel to your location to perform the TSB. If you need help facilitating completion of the TSB or have any questions regarding your brakes please email the Lippert Hotline at [BrinkleyModelZTSB@lci1.com](mailto:BrinkleyModelZTSB@lci1.com).

If you would prefer that we facilitate the parts and/or repair on your behalf, please do not hesitate to contact Brinkley Customer Care at [CustomerCare@BrinkleyRV.com](mailto:CustomerCare@BrinkleyRV.com) or (574) 501-4280. We are happy to help.

We apologize in advance for any inconvenience this may cause. As campers, we understand the importance of utilizing your unit during the peak of the camping season and will work our hardest to keep you camping.

If any questions or concerns should arise, please do not hesitate to contact our Customer Care Team at [CustomerCare@BrinkleyRV.com](mailto:CustomerCare@BrinkleyRV.com) or (574) 501-4280.

### **Frequently Asked Questions (FAQs)**

- 1. We are supposed to take delivery next week and our VIN falls within the scope, can we still pickup our RV?**

It is highly recommended that the brakes be replaced prior to you taking delivery. We will do everything we can to help facilitate getting the repairs completed as quickly as possible. We can work directly with your dealer to coordinate.

- 2. We are planning on taking a trip next week, are we going to be able to go still?**

Lippert believes that the issues are related to inspections that occurred and that the issue should not be widespread. If an issue were to occur, you would notice diminished braking and possibly your tow vehicle would throw a warning on your dashboard indicating there is an issue. We highly recommend that we try to get the brakes and hubs replaced for you prior to your trip if at all possible. We can assist with your dealer and Lippert to help facilitate.

- 3. We are currently on the road using our Brinkley, what should we do?**

If you aren't experiencing any diminished braking capabilities, you should continue to monitor the effectiveness of our brakes. We can work to try and facilitate the replacements for you upon your return from your trip. If you are experiencing diminished braking, we can work to try and facilitate repairs at or near your present location.

- 4. How long is the process to actually change these hubs out?**

Between 4 and 5 hours is the estimated time to replace all 4 brakes and hubs.



Document #8

Communication ID# 45B-001-2023

Technical Service Bulletin

Dealer Portal Announcement (TSB Provided)

June 27, 2023

[This language was provided as the announcement with the TSB document as an attachment. See next page for actual TSB document]

This announcement provides the Technical Service Bulletin (TSB) from Lippert in regard to the brakes and hubs on specific Model Z 5th Wheels. The VINs affected include: **000004 to 000512, 000514, 000516, 000517, 000518, 000521 to 000526, 000528 to 000535, 000539, 000540, 000542, 000543, 000545, 000546, 000547, 000551 to 000555, 000557, and 000558.**





# HUB AND BRAKE ASSEMBLY REPLACEMENT ON BRINKLEY MODEL Z 5TH WHEELS

TSB Number:	45B-001-2023		
Product:	Hub and Brake Assembly		
Date:	June 23, 2023	Labor Rate:	2.5 hours per axle

## Purpose

This document refers to Brinkley Model Z Series 5th Wheels and the requirement to remove and replace the hub and brake assemblies with new.

**NOTE: It is important that ALL NEW parts are ordered using KIT PN 2023040017. Utilize ALL NEW parts. Do NOT reuse the old parts, even if the old parts do not appear to be compromised.**

We suspect that some hub and brake assemblies used on the Curt axles installed on Brinkley's Model Z 5th Wheels may have been damaged in the production and/or inspection process at Lippert. As a result, Lippert has elected to replace all hub and brake assemblies on certain units. This will affect dealer inventory as well as retail owned vehicles. See the specific affected VIN's in the table below.

Below you will find work instructions, parts ordering information and details to file a claim for reimbursement. Within the next couple of days, Lippert representatives may call your dealership to help facilitate parts ordering. Communication will be provided to retail customers and we ask that you provide priority scheduling to perform the TSB. Lippert has a field service team who may be able to help you, should you need it.

Lastly, as part of the investigative process, we ask that you return the hub and brake assemblies back to Lippert tagged with the last 6 of the VIN.

**NOTE: After completing the hub and brake replacement it is important that the customer perform the burnishing process in order to properly seat the new brake assemblies and achieve optimal brake performance. See the last page of this document for full burnishing instructions. For convenience, we have also placed a link to our instructional video here: [Proper Way to Burnish your Trailer Brakes](#)**

### Axle Information

Top level Curt axle variant 2022325350

### PART TO ORDER: PN 2023040017

DESCRIPTION: BRINKLEY MODEL Z 45B-001-2023 TSB

**Send parts orders with Brinkley VIN included to:**

[BrinkleyModelZTSB@lci1.com](mailto:BrinkleyModelZTSB@lci1.com)

**One kit (PN 2023040017) is required to perform the TSB.** Individual part numbers are included under resources required on Page 3 for identification purposes.

### VIN Information

Units with VIN ending in 000559 and higher are not affected by this TSB.

Affected Vehicle Identification Numbers (ending with)
000004 - 000512
000514
000516 - 000518
000521 - 000526
000528 - 000535
000539 - 000540
000542 - 000543
000545 - 000547
000551 - 000555
000557 - 000558



## HUB AND BRAKE ASSEMBLY REPLACEMENT ON BRINKLEY MODEL Z 5TH WHEELS

TSB Number:	45B-001-2023		
Product:	Hub and Brake Assembly		
Date:	June 23, 2023	Labor Rate:	2.5 hours per axle

### NO ADVANCE CONTACT OR PRIOR AUTHORIZATION REQUIRED

#### CLAIM REIMBURSEMENT PROCESSING:

All completed work orders with requests for reimbursement, including any freight expenses, should be emailed to [dealerclaims@lci1.com](mailto:dealerclaims@lci1.com).

**Required information for immediate reimbursement processing includes:** Full 17 digit VIN, Retail Name if retail sold, Dealer name, address, phone number, dealer hourly labor rate and a work order detailing the work performed and labor time.

**NOTE:** Dealership or repair facility forms are accepted or CS-028 Lippert Warranty Claim Form can be used to request reimbursement.

CS-028 can be found at: <https://lci-support-doc.s3.amazonaws.com/forms/ccd-0004000.pdf>

Claims submitted with all requested information are issued payment within 30 days.

#### Shipping Address

Parts being replaced are to be returned to:

#### Lippert Warranty

Attn: Warranty Lab  
2020 Blakesley Parkway  
Bristol IN 46507



# HUB AND BRAKE ASSEMBLY REPLACEMENT ON BRINKLEY MODEL Z 5TH WHEELS

TSB Number:	45B-001-2023		
Product:	Hub and Brake Assembly		
Date:	June 23, 2023	Labor Rate:	2.5 hours per axle

## Safety

This document provides general instructions. Many variables can change the circumstances of any procedure, i.e. the degree of difficulty involved in the service operation and the ability level of the individual performing the operation. This document cannot begin to plot out procedures for every possibility, but will provide the general instructions for effectively installing, removing or servicing the system. In the event the skill level required is too advanced or the procedure too difficult, a certified technician should be consulted before performing the necessary operation. Failure to correctly install, remove or service the system may result in voiding the warranty, inflicting injury or even causing death.

### **WARNING**

The "WARNING" symbol above is a sign that a procedure has a safety risk involved and may cause death, serious personal injury, severe product and/or property damage if not performed safely and within the parameters set forth in this document.

### **CAUTION**

The "CAUTION" symbol above is a sign that a procedure has a safety risk involved and may cause personal injury, product and/or property damage if not performed safely and within the parameters set forth in this document.

## Resources Required

- TSB Replacement Kit: **PN 2023040017**
  - LH Brake Assy    1222593    2 ea
  - RH Brake Assy    1224513    2 ea
  - Hub Assy            380827    4 ea
  - Cotter Pin          122075    4 ea
  - Sealed Wire Conn 122084    8 ea
  - Keps Nuts            122077    20 ea
  - Dust Cap            85373929    4 ea
  - TSB Instructions    CCD-0007981 1 ea
- Cordless or electric drill or screw gun
- Appropriate drive bits
- 9/16" socket and ratchet
- Torque wrench
- Rubber mallet
- Wire cutters
- Floor jacks
- Appropriately-rated jack stands

**NOTE: It is important that ALL NEW parts are ordered using KIT PN 2023040017. Utilize ALL NEW parts. Do NOT reuse the old parts, even if the old parts do not appear to be compromised.**

TSB Number:	45B-001-2023		
Product:	Hub and Brake Assembly		
Date:	June 23, 2023	Labor Rate:	2.5 hours per axle

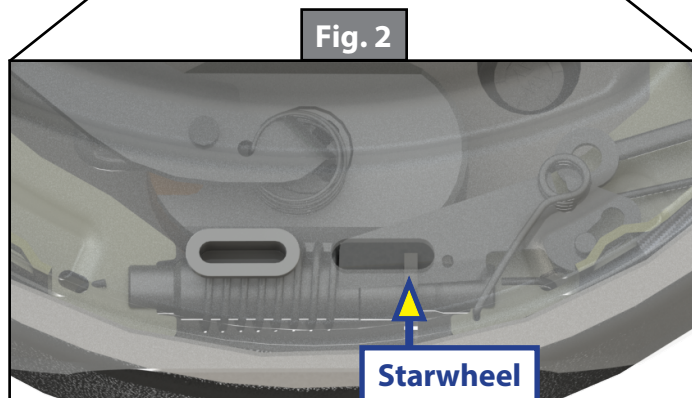
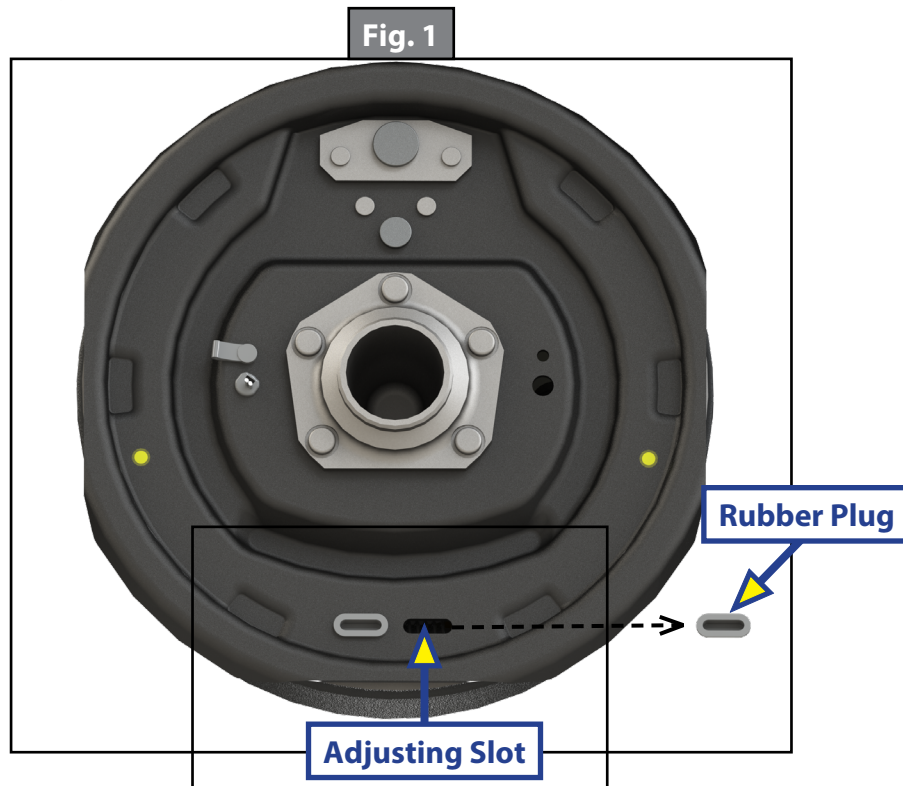
## Hub Removal

1. Lift and support trailer per manufacturer's requirements.

### **⚠ WARNING**

**Lift trailer by the frame and never the axle or suspension. Do not go under trailer unless it is properly supported by jack stands. Unsupported trailers can fall causing death or serious injury.**

2. Remove the rubber plug from the adjusting slot on the bottom of the brake backing plate (Fig. 1).
3. Insert a screwdriver or standard adjusting tool into the adjusting slot to rotate the starwheel (Fig. 2) of the adjuster assembly to retract the brake shoes.



# HUB AND BRAKE ASSEMBLY REPLACEMENT ON BRINKLEY MODEL Z 5TH WHEELS

TSB Number:	45B-001-2023		
Product:	Hub and Brake Assembly		
Date:	June 23, 2023	Labor Rate:	2.5 hours per axle

4. Remove the lug nuts from the wheel and set aside (Fig. 3).
5. Remove the wheel from the axle hub and set aside (Fig. 4).

Fig. 3

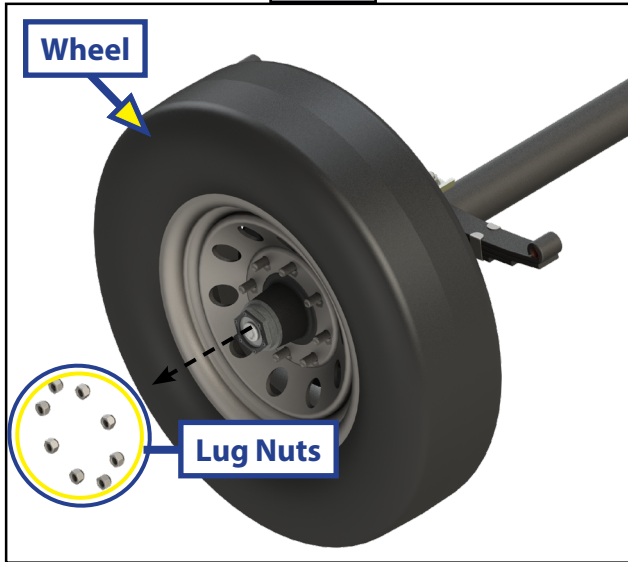
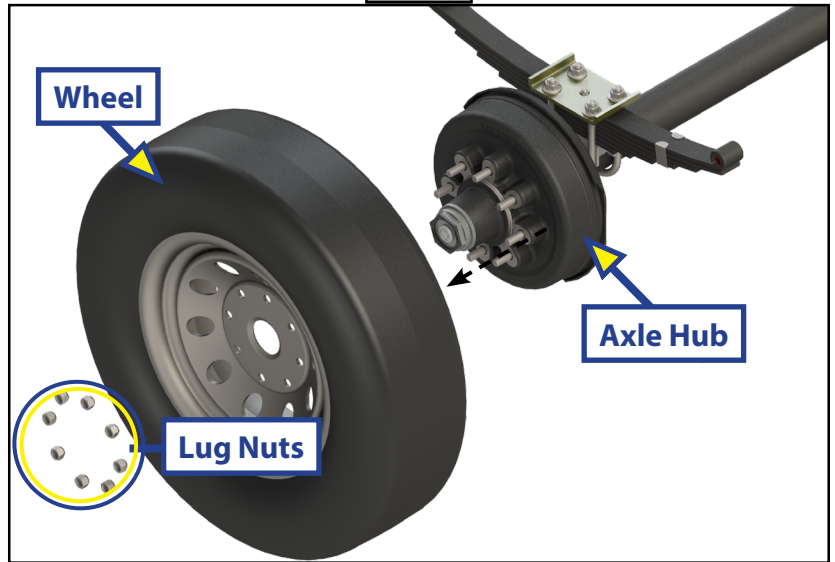


Fig. 4



6. Unscrew the dust cap and remove from hub (Fig. 5).
7. Pull the cotter pin from the castle nut and **DISCARD THE COTTER PIN** (Fig. 6).

Fig. 5

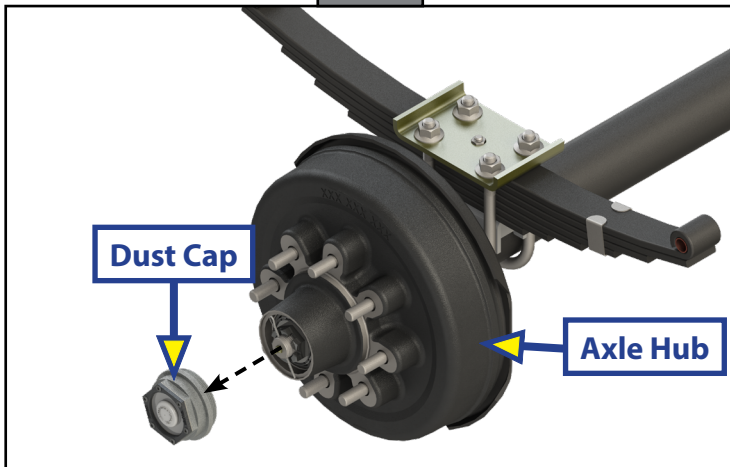
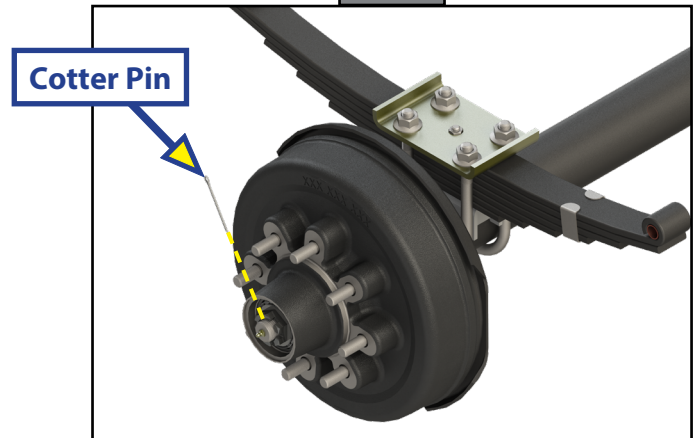


Fig. 6

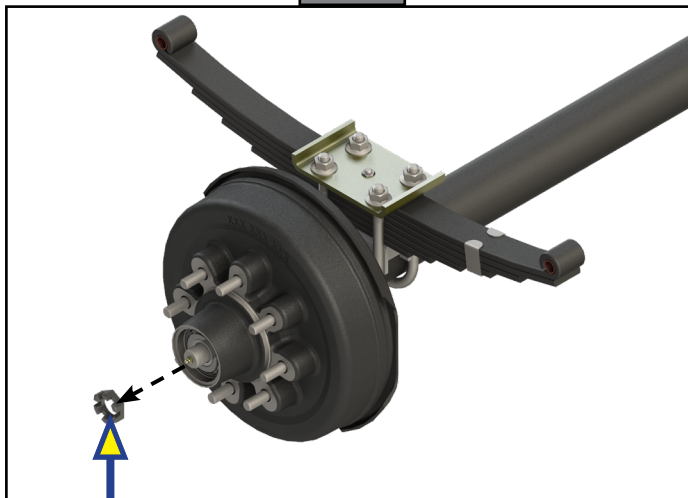


# HUB AND BRAKE ASSEMBLY REPLACEMENT ON BRINKLEY MODEL Z 5TH WHEELS

TSB Number:	45B-001-2023		
Product:	Hub and Brake Assembly		
Date:	June 23, 2023	Labor Rate:	2.5 hours per axle

8. Remove the castle nut from the spindle (Fig. 7).
9. Remove the spindle washer from the spindle (Fig. 8).
10. Place hand over nose of hub during removal to contain outer bearing cone or remove outer bearing cone prior to removal of hub. Remove the hub from the spindle (Fig. 9).

Fig. 7



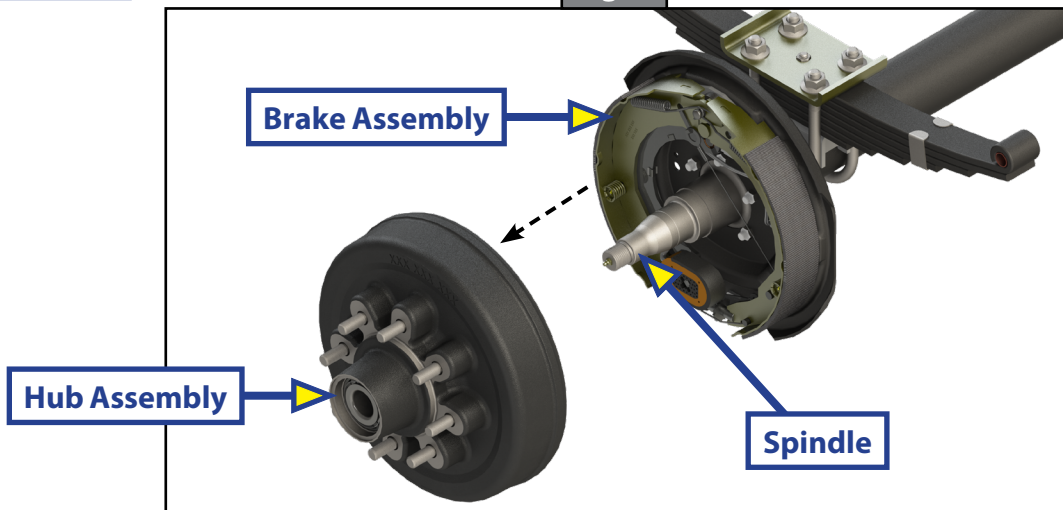
Castle Nut

Fig. 8



Spindle Washer

Fig. 9



Brake Assembly

Hub Assembly

Spindle

# HUB AND BRAKE ASSEMBLY REPLACEMENT ON BRINKLEY MODEL Z 5TH WHEELS

TSB Number:	45B-001-2023		
Product:	Hub and Brake Assembly		
Date:	June 23, 2023	Labor Rate:	2.5 hours per axle

## Replace Brake Assembly

### Procedure

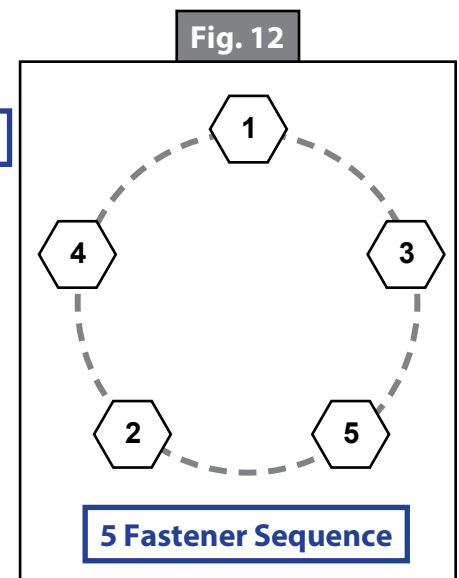
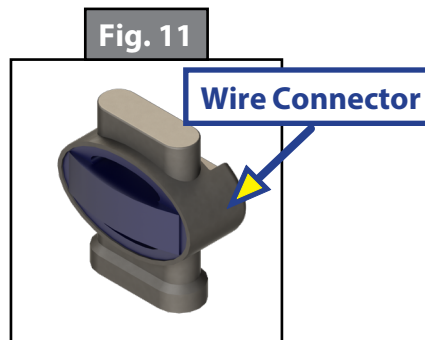
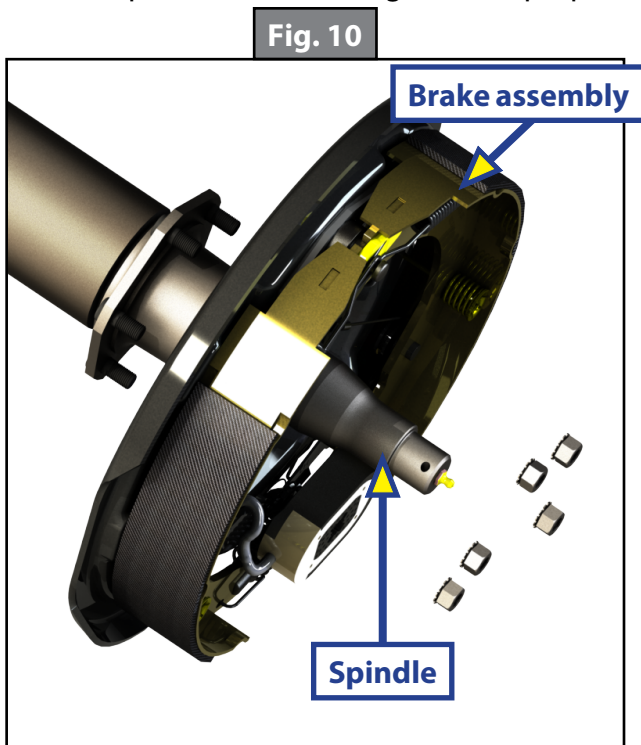
1. Using a 9/16" socket and ratchet, remove the nuts holding the brake assembly to the spindle (Fig. 10).
2. Cut the brake wires on the back side of the brake assembly.
3. Remove the brake assembly from the spindle (Fig. 10).

**NOTE:** If necessary, gently tap the brake assembly with a rubber mallet.

4. Place the new brake assembly onto the spindle and install by hand two of the nuts previously removed.
5. Hand tighten the nuts to hold the brake assembly in place.

**NOTE:** If brake has 36" lead wires, cut back to 18" to avoid excess wire hanging down.

6. Using sealed wire connectors (Fig. 11), reconnect the brake wires.
7. Install by hand the remaining nuts and tighten in a sequential pattern as shown in Fig. 12.
8. After the brake assembly nuts are fully hand tightened, torque the nuts to 25-35 ft-lbs in the sequential pattern shown in Fig. 12 until proper torque is indicated by the torque wrench.

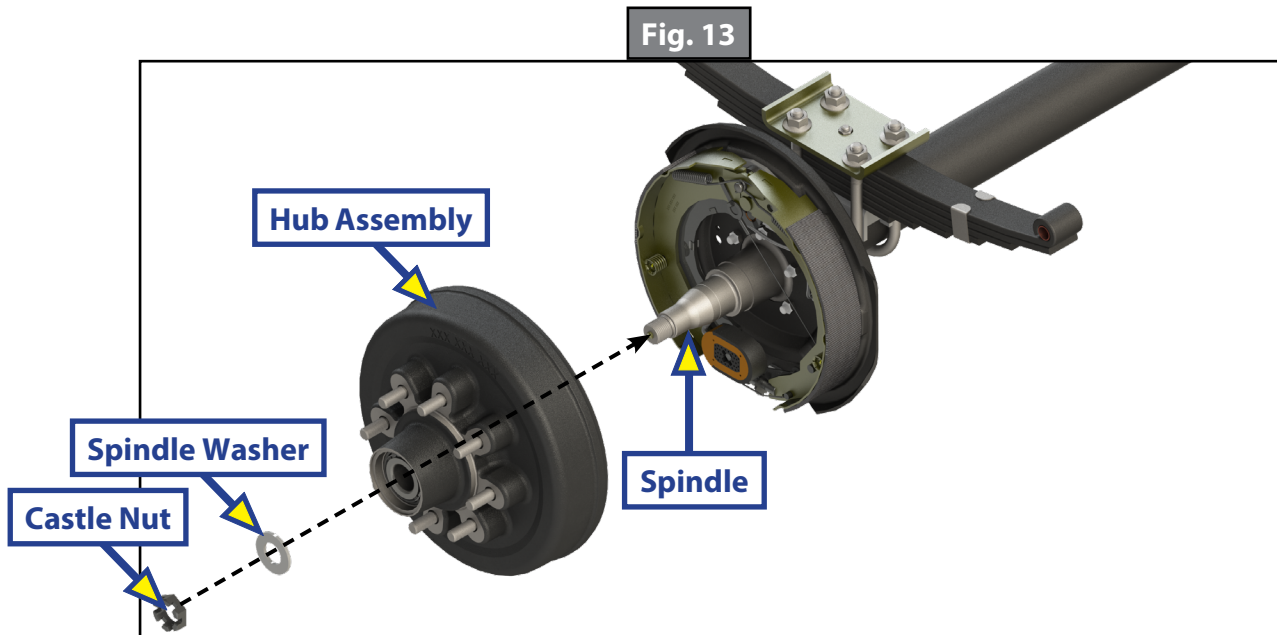


TSB Number:	45B-001-2023		
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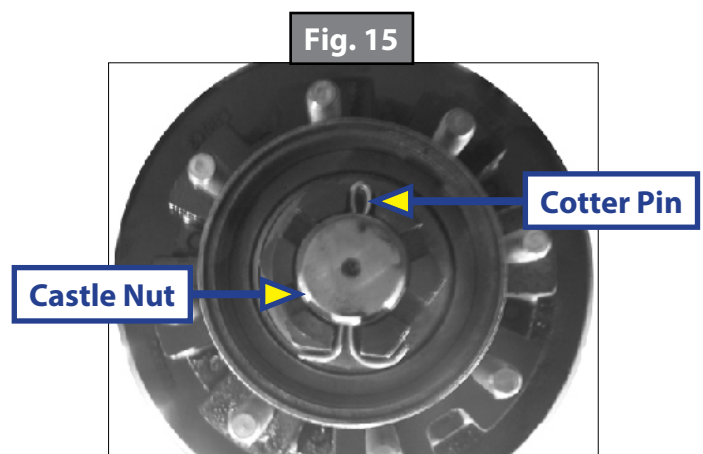
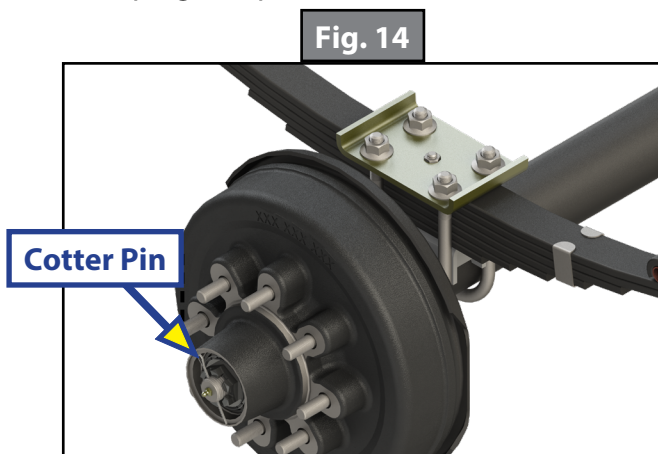
## Hub Replacement

**NOTE:** All grease **MUST** be wiped from spindle, inside of drum and off bottom of grease seal prior to hub install to prevent brake contamination.

1. Place hub assembly onto the axle spindle followed by the spindle washer and castle nut (Fig. 13). Castle nut should be torqued to 50 ft-lbs. Rotate the hub during the tightening process.



2. Loosen castle nut to back off the torque.
3. Tighten castle nut finger tight until snug.
4. Insert **NEW** cotter pin (Fig. 14). If cotter pin does not line up with hole, back castle nut up slightly until pin can be inserted.
5. Bend cotter pin over to lock nut in place (Fig. 15). Nut should be free to move with only the cotter pin keeping it in place.



# HUB AND BRAKE ASSEMBLY REPLACEMENT ON BRINKLEY MODEL Z 5TH WHEELS

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- Reinstall dust cap onto the hub assembly by screwing it in at 20 ft-lbs (Fig. 16).
- Reinstall the wheel onto the hub assembly (Fig. 17).
- Reinstall the lug nuts onto the hub studs (Fig. 18) using sequential pattern as shown in Torque Requirement Chart (Fig 19).

Fig. 16

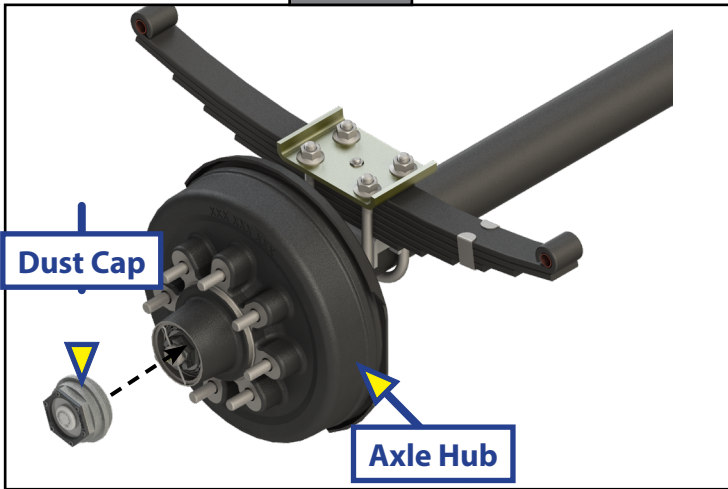


Fig. 17

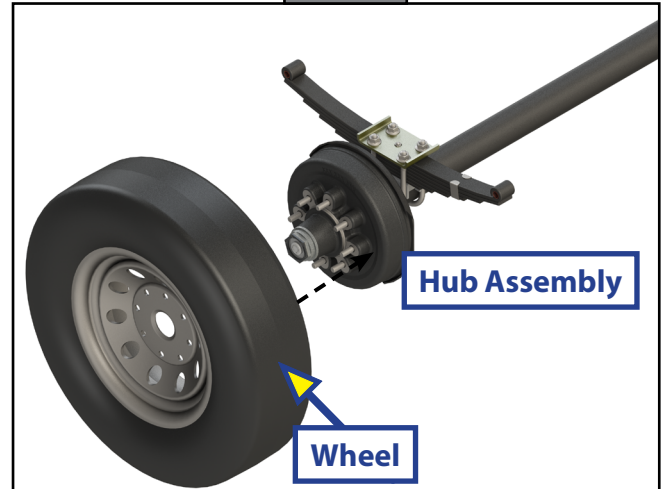


Fig. 18

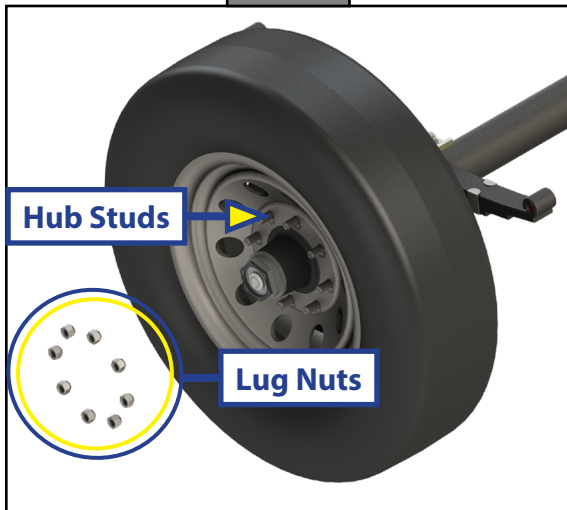
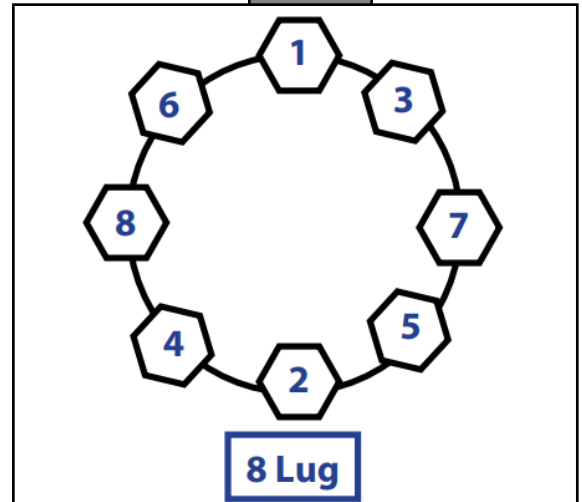


Fig. 19



Torque Requirement Chart

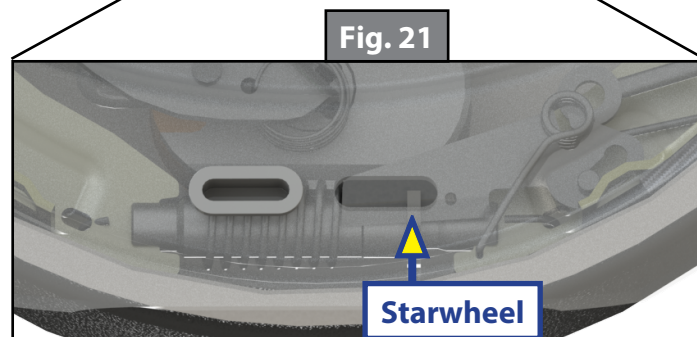
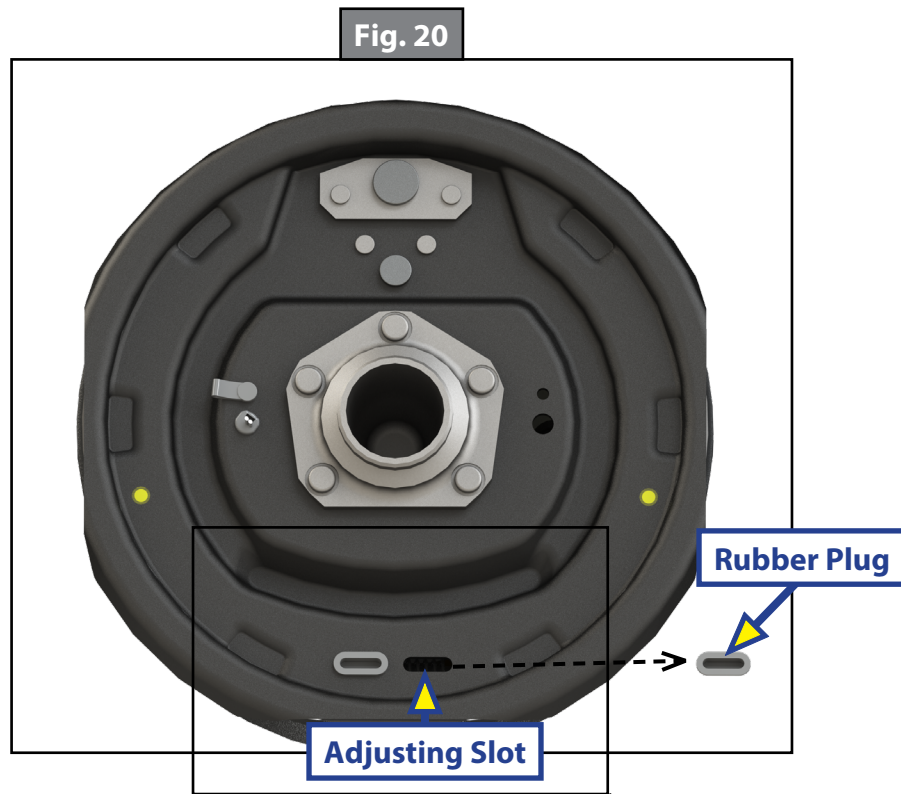
Wheel Size	Stud Size	Torque Sequence		
		1st Stage	2nd Stage	3rd Stage
16"	9/16"	20-25 ft-lbs	60-70 ft-lbs	120-130 ft-lbs
16.5" x 6.75"	9/16"	20-25 ft-lbs	60-70 ft-lbs	120-130 ft-lbs

# HUB AND BRAKE ASSEMBLY REPLACEMENT ON BRINKLEY MODEL Z 5TH WHEELS

TSB Number:	45B-001-2023		
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9. Remove the rubber plug from the adjusting slot on the bottom of the brake backing plate (Fig. 20).
10. Insert a screwdriver or standard adjusting tool into the adjusting slot to rotate the starwheel (Fig. 21) of the adjuster assembly to expand the brake shoes. Adjust the brake shoes out until the pressure of the linings against the drum makes the wheel very difficult to turn.
11. Then rotate the starwheel in the opposite direction until the wheel turns freely with a slight lining drag.
 

**NOTE:** A second screwdriver will be needed to push the auto adjusting lever away from the starwheel so that the starwheel can be rotated backwards.
12. Replace the rubber plug in the adjusting slot and lower the wheel to the ground.
13. Repeat the above procedure on all brakes. For best results, the brakes should all be set at the same clearance.



# HUB AND BRAKE ASSEMBLY REPLACEMENT ON BRINKLEY MODEL Z 5TH WHEELS

TSB Number:	45B-001-2023		
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## Measuring Amperage

The Braking System amperage is the amount of current flowing through the system when all magnets have been energized. The amperage will change proportionately with the voltage. To ensure that the battery is indicating a full charge, the towing vehicle engine should be running with the coach coupler connected when checking the voltage.

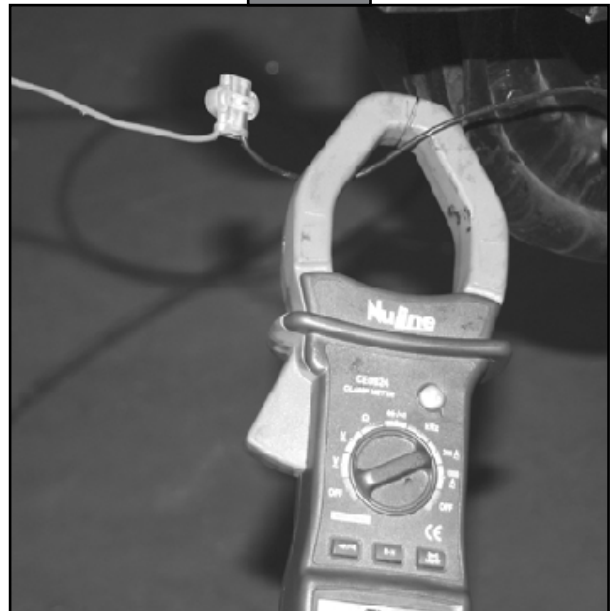
If a resistor is used in the brake system, it must be set at zero or bypassed completely to obtain the maximum amperage reading. Individual amperage draw can be measured by inserting the ammeter in the line at the magnet you want to check. Disconnect one of the magnet lead wire connectors and attach the ammeter between the two wires. Consult Amperage Chart below for normal amp readings.

Make sure that the wires are properly reconnected and sealed after testing is completed. Testing for Amperage can be done with probes (Fig. 22) or alligator clips on the leads or an amp clamp (Fig. 23).

Fig. 22



Fig. 23



## Amperage Chart

Amps/Magnet	Two Brakes	Four Brakes	Six Brakes
3.0	6.0	12.0	18.0



# HUB AND BRAKE ASSEMBLY REPLACEMENT ON BRINKLEY MODEL Z 5TH WHEELS

TSB Number:	45B-001-2023		
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## Break-in Period for Electric Drum Brakes (Burnishing)

Prior to any adjustments, trailer brakes should be burnished. The break-in period is a typical phenomenon with drum brakes and especially electric drum brakes. Electric drum brakes will require a break-in period to achieve full performance. This break-in period applies for new axles and any time new brake shoes and/or magnets are installed as part of regular maintenance.

Lippert has found through brake testing that the break-in period for drum brakes can range from 20 to 50 brake applications. Brakes can be seated in by applying approximately 8-10 volts to the trailer brakes at an initial speed of 40 mph and allowing the truck/trailer combination to slow down to 20 or 25 mph. For best results do not use truck brakes during this procedure.

The trailer brakes will seat in faster by using them to stop both the truck and trailer. The easiest method is to apply the trailer brakes using the manual activation lever located on the in-cab brake controller. Care must be taken to not overheat the lining material; therefore, brake applications conducted at one-mile intervals will suffice. The driver should feel a noticeable difference in the brake performance during this period, sometimes in as few as 10 applications. After 50 applications, the brake lining material will be fully cured from the heat and develop close to 100 percent contact with the brake drum surface.

This break-in period not only seats the shoe lining material but also seats in the brake magnets. During the break-in period, the linings will wear at a faster rate than they do after they are seated in.

**NOTE:** Brakes should be manually adjusted after the first 200 miles of operation and periodically thereafter, at approximately 3,000 mile intervals.

### Related Video on web site lci1.com

[Proper Way to Burnish your Trailer Brakes](#)

### Related Document on web site lci1.com

[TI-086 - Electric Drum Brake Break-in Period](#)

### Full TI-086 link:

<https://lci-support-doc.s3.amazonaws.com/technical-information-sheets/axles-and-suspension/ccd-0001947.pdf>