

SAFETY ADVISORY # 16-252

Oregon Passport 3350BHWE Axles

Keystone is conducting a voluntary RECALL notification campaign in accordance with the National Highway Transportation and Safety Act. It has been determined 3500 pound axles were installed instead of 4400 pound axles. An overload on the 3500 pound axles will lead to an increased risk of axle failure, property damage and/or vehicle crash. The following procedure describes how to correct the issue.

Models Included:

2016 – 2017 Oregon Passport 3350BHWE

Serial Number Range:

2016 - GX415002 – GX416491

2017 - HX410266 – HX410342

Parts Required per Unit:

IMPORTANT – DO NOT PLACE AN ORDER FOR THESE PARTS

Axle kit will be supplied after submission of Pre-Authorization request includes the following:

4 – KRV # 107894 - Tire - Center Cap - Excal - 6 Lug - Chrome - Open w/Insert - 4.25

2 – KRV # 427725 - Axle - 4400# - Straight - Overslung - 85/68.5 - LCI52-SB-85-68.5-NOSP-OS-L-655-7278-30PT-GAWR-4400#

4 – KRV # 477117 - Tire - Trailer King II - ST225/75R15D - 2540# - PDW - 15" - 6-5.5 - Alum - Spk - Slv - T03

1 – KRV # 484273 - Tire - Trailer King II - ST225/75R15D - SRW - 15" x 6" - 6-5.5 - Mod – BW

Purchase locally: Wire connectors

Tools Required:

-Impact Wrench - ½" drive (removal of wheels only)

-Deep Socket 13/16"x ½" drive

-Torque Wrench – ½" drive

-Box end wrench 11/16"

-Minimum 2" long socket extension, ½" drive

-Wheel chocks

-Floor Jack – adequate to trailer weight

-Jack Stands

-Wire cutters/crimpers

GENERAL INFORMATION

- Read the entire repair procedure prior to the repair.
- Stock units must be remedied before selling.
- **This Safety Advisory requires Pre-Authorization.**

REPAIR INSTRUCTIONS

ONE: **PREPARING THE TRAILER**

- Step 1 Locate the trailer on a level, flat, hard surface. Chock the wheels.
- Step 2 Use a floor jack of sufficient capacity to raise one side of the trailer. Place the floor jack under the main frame rail behind the rear spring hanger, leaving enough room to install a jack stand immediately behind the spring hanger. Elevate the frame just enough to take some of the weight off the wheel.
- Step 3 Loosen the lug nuts on the rear wheel about a half turn. DO NOT remove lug nuts at this time.
- Step 4 Continue elevating the frame until the rear tire just clears the shop floor.
- Step 5 Install a jack stand of sufficient capacity directly behind the rear spring hanger.
- Step 6 Relocate floor jack to an area just forward of the front spring hanger, leaving enough room to install a jack stand immediately in front of the spring hanger.
- Step 7 Use a floor jack of sufficient capacity to raise one side of the trailer. Place the floor jack under the main frame rail forward of the rear spring hanger, leaving enough room to install a jack stand immediately forward of the spring hanger. Elevate the frame just enough to take some of the weight off the wheel.
- Step 8 Loosen the lug nuts on the forward wheel about a half turn. DO NOT remove lug nuts at this time.
- Step 9 Raise the frame until the forward tire just clears the shop floor.
- Step 10 Install a jack stand of sufficient capacity just forward of the front spring hanger.
- Step 11 With both tires now slightly off the ground finish removing the lug nuts and the two wheels from the trailer.
- Step 12 Repeat Steps 2 – 11 for the other side of the trailer.

TWO: AXLE REPLACEMENT

- Step 1 Support one of the axle tubes with a hydraulic jack. See Figure 1.
- Step 2 Disconnect the brake wires for the axle from the trailer wiring harness that runs along the inside of the frame on the off door side of the vehicle. Note: Do not disconnect the wires at the back of the brake assembly. See Figure 2.



Figure 1



Figure 2

- Step 3 Remove the shackle bolts attaching the springs to the spring hangers or equalizer links. See figure 3.



Figure 3

- Step 4 Carefully lower the axle and remove from under the vehicle.
- Step 5 Slide the new axle under the trailer positioned so the free end of the brake wires on the axle can be connected to the trailer brake wiring harness on the off door side.
- Step 6 Attach the spring using new shoulder bolts and lock nuts. Placing the box end wrench on the bolt head and the torque wrench on the nut, Torque to 30 – 50 ft.-lbs. Note – be sure shoulder portion of the bolt is installed correctly through the shackle links and spring hangers so the suspension parts can rotate freely.
- Step 7 Reattach the brake wiring disconnected in Step 2 from the axle to the trailer wire harness using new wire connectors.
- Step 8 Repeat steps 1 – 7 for the other axle.

THREE: WHEEL INSTALLATION

WHEEL & HUB PAINT MUST BE REMOVED PRIOR TO WHEEL REINSTALLATION

- Step 1 The black paint that has transferred from the hub face to the mounting surface of the wheel must be fully removed.
- Step 2 For the wheel, apply lacquer thinner to the back side (hub-mating surface) side of the wheel with a shop rag to soften the black paint. Rub the area with a type “A” very fine Scotch-Brite® pad until clean. Dry the surface completely. See Figures 4 & 5.

Warning: Do not allow solvent or equivalent to make contact with the tire. Do not use liquid paint remover as this will pit and damage the aluminum wheel. Do not use a wire wheel (brush) or grinder to remove the paint from the wheel as this will also damage the wheel.

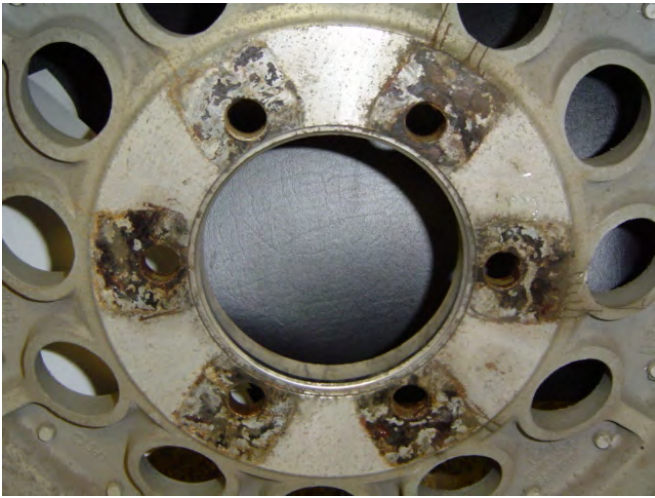


Fig. 4 Before Cleaning



Fig. 5 After Cleaning

Step 3 For the hub face, apply liquid paint remover or equivalent to the wheel-mating surface of the hub. Use a wire wheel (brush) to clean all black paint from the wheel-mating surface, that is, all areas of the hub face that come in direct contact with the wheel. Avoid damaging the hub face with this process! After the paint is removed, wash off the area with water to remove any remaining residue. Dry the surface completely. See Figures 6 & 7.

Step 4 Make a final inspection of these surfaces before mounting the wheels. If any grease is present use a brake cleaner or degreaser. Rinse any cleaned areas with water to remove residue. Dry the surface completely. See Figure 7.

Warning: When using chemicals (paint remover, brake cleaner/degreaser) be sure to utilize the “Personal Protective Equipment” (PPE) recommended by the manufacturer through the Safety Data Sheet (SDS) and dispose in accordance with all Federal, State and Local Laws.

Warning: When cleaning the hub face with the wire wheel brush avoid excessive pressure on the studs. Applying too much force here could damage the threads on the studs.



Fig. 6 Before Cleaning



Fig. 7 After Cleaning

FOUR: WHEEL ASSEMBLY INSTALLATION

Step 1 Using a clean rag, wipe down all lug nuts and tapered nut seats on wheel to remove any foreign debris.

Step 2 Start the lug nuts on each stud by hand.

Step 3 You must use the star pattern and torque wrench when tightening the lug nuts to the wheel. This sequencing pattern shows how to progressively tighten the lug nuts to best achieve the proper torques and clamp load. See Figure 8.

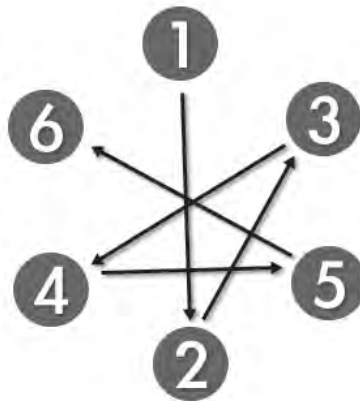


Figure 8

Step 4 Using the star pattern outlined in Figure 8, tighten the lug nuts until the 1st stage torque (20-25 ft-lbs) outlined in Figure 9 is achieved. Verify the lug nuts are properly positioned in the tapered seats of the wheel.

Wheel Torque Requirements			
Wheel Size	1st Stage	2nd Stage	3rd Stage
15"	20-25 ft-lbs	55-60 ft-lbs	110-120 ft-lbs

Figure 9

Step 5 Using the star pattern outlined in Figure 8, tighten the lug nuts until the 2nd stage torque (55-60 ft-lbs) outlined in Figure 9 is achieved.

Step 6 Lower the trailer to the ground.

Step 7 Using the star pattern outlined in Figure 8, tighten the lug nuts until the 3rd and final stage (110-120 ft-lbs) is achieved. See Figure 9.

Step 8 Use a dial or digital torque wrench to verify that the proper amount of torque has been applied.

NOTE: Reminder – Follow-Up re-torque required at 10, 25, and 50 miles.

FIVE: WARRANTY REIMBURSEMENT

Submit the claim on Key Express with **Safety Advisory # 16-252** noted in the customer complaint section of the form using **Flat Rate Code # 7125242B**. The amount of time authorized for this repair is 2.5 hours.

SIX: PART RETURN

No part return required.

If you have any questions please contact us through normal channels at 866-273-1450.

The following vehicles have been corrected prior to leaving the manufacturing facility.

Last 8 Digits of VIN

HX410338	HX410339	HX410340
HX410341	HX410342	