

SAFETY ADVISORY # 22-421

Cougar Tire Load Range

Keystone is conducting a voluntary RECALL notification campaign in accordance with the National Highway Transportation and Safety Act. It has been decided that the vehicles in the recall population may have Load Range "D" (2540 lbs) tires installed rather than Load Range "E" (2860 lbs) tires. Under certain conditions during travel, an overloaded tire can fail and lead to an increased risk of vehicle crash.

Models Included: 2022 Cougar Fifth Wheels and Travel Trailers: All

Serial Number Range: NV503520 - NV503637

Parts Required: 4 – KRV # 686233 - Tire - Trailer King RST - ST225/75R15 E - 2860# - 80PSI
- OD-28.3 - SW-8.8 - Tire Only (*This part must be ordered by VIN*)

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

-Tire Changing Machine (or Sublet)

When performing warranty or recall service, please make certain that appropriate Personal Protective Equipment (PPE) is used.

The remedy is to replace the load range "D" tires with load range "E" tires.

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 wheel about a half turn. DO NOT remove lug nuts at this time.

Step 4 Continue elevating the frame until the 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 wheel about a half turn. DO NOT remove lug nuts at this time.
- Step 9 Raise the frame until the 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 the tire now slightly off the ground finish removing the lug nuts and the wheel from the trailer.
- Step 12 Replace the incorrect load range “D” tire with the correct load range “E” tire KRV # 686233 - Tire - Trailer King RST - ST225/75R15 E - 2860# - 80PSI - OD-28.3 - SW-8.8 - Tire Only, using industry standards for removing and reinstalling a tire on a rim.

Note: If using a sublet to replace tires, a copy of the sublet will be required for the claim.

- Step 13 Repeat Steps 2 – 12 for the other side of the trailer.

TWO: WHEEL ASSEMBLY INSTALLATION

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

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.

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.

- 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 1.

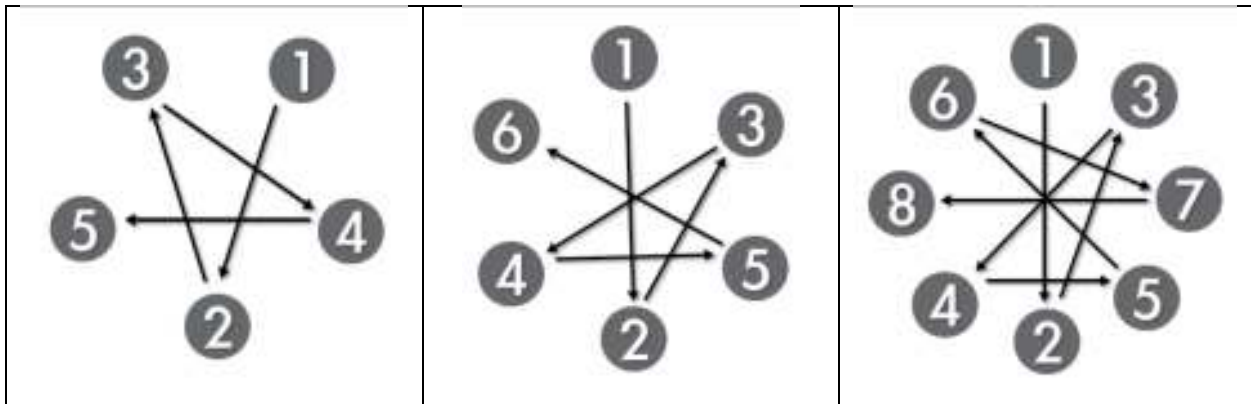


Fig. 1

- Step 4 Using the star pattern outlined in Figure 1, tighten the lug nuts until the 1st stage torque (20-25 ft/lbs) outlined in Figure 2 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
14", 15" & 16"	20-25 ft/lbs	50-60 ft/lbs	110-120 ft/lbs

Figure 2

- Step 5 Using the star pattern outlined in Figure 1, tighten the lug nuts until the 2nd stage torque (50-60 ft/lbs) outlined in Figure 2 is achieved.
- Step 6 Lower the trailer to the ground.
- Step 7 Using the star pattern outlined in Figure 1, tighten the lug nuts until the 3rd and final stage (110-120 ft/lbs) is achieved. See Figure 2.
- 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.

WARRANTY REIMBURSEMENT

REPAIR

Submit the claim on Key Express using **Flat Rate Code # 7142142B**

In the Complaint section note: Safety Advisory # 22-421

In the Cause section note: Safety Advisory # 22-421

In the Correction section note: Installed the correct Load Range "E" Tires

Note: If using a sublet to replace tires, a copy of the sublet will be required for the claim.

The amount of time authorized for this repair is **2.5 hours**.

PARTS DISPOSITION

No part return.

Please call Keystone RV Customer Service at **866-273-1454** if you have any questions.