



Thor Motor Coach Technical Service Bulletin

TSB #	TSB 21-06		
Description/Title:	18M Rize-Scope Generator Placement		
Affected Product Line(s):	Certain model year 2022 18M Rize & Scope units		
Service Campaign # :	RC000239	Released Date:	9/1/2021
Codes:	TMCTS80269W	Document Date:	9/1/2021
Time Allowed:	1.5	Document Revision:	A

Issue:

The Generator and battery tray hangs down below the rear axle line of the vehicle and may contact road obstacles, such as speed bumps, at low speeds.

Tools Required:

- Bottle Jacks/Jack Stands/Car Jack
- Torque Wrench
- Hammer
- 90 degrees air wrench
- Crow bar
- Flat head screwdriver
- Socket extension
- Sockets (7/8", 7/16", 9/16")

Part(s) Required:

TSB 21-06 Part Kit #0503506

Kit will include the following items:

DESCRIPTION	QTY
REAR	
Bump Stops	2
9/16" U-Bolts	4
1 3/4" Axle Block	2
E-Brake Cable Bracket	4
FRONT	
Front Sumo Springs	2
Black Zip Ties	10
FASTENERS	
3/8" Nut	4
3/8" Washer	4
1/4" Nut	2
1/4" Washer	4
1/4" Bolt	2
3/8" Carriage Bolts	4
5/8" P-Clamp	2
9/16" Washer	4
9/16" Nut	4



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WARNING!

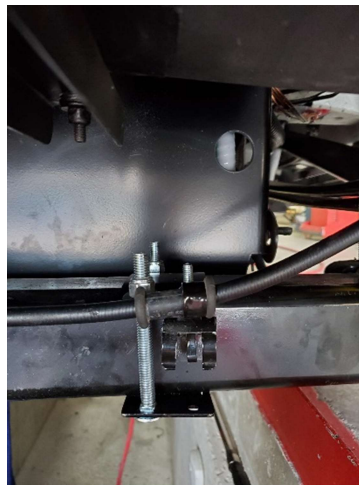
Failure to follow the jacking and support instructions shown on the installation video can lead to serious injury or death.

Instructions:

*For step-by-step video instructions, please visit
<https://youtu.be/NSN2ADjJEGI>*

Re-Locating Rear Brake Lines

1. Remove the rear brake lines from the OEM chassis bracket before adding the axle shim or Sumo Spring.
2. Gently pry open the clamps holding the brake line in place. There will be one on each side of the vehicle
3. Take the two plates from your install kit, placing one on top and one on bottom of the axle.
4. With the threads pointing up, take the two 3/8" carriage bolts and place your lock washer and nut onto the bolts. Using a 9/16" socket, tighten to 30 ft. lbs.
5. Place a 5/8" p-clamp around the rubber sleeve and attach to the plate using a 1/4" bolt, lock washer, and nut. Using a 7/16" socket, tighten to 8 ft. lbs.
6. Repeat for both sides.



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Installing Rear Axle Shim

7. Remove the current bump stops on both sides. Give it a few taps with a chisel and a hammer to loosen it, then twist off. These will be replaced in the next step.
8. Remove the four (4) factory u-bolts from the leaf springs.
9. Lift the vehicle with the bottle jack to install the spacer included in your kit. Center your jack on the spring and lift the spring from the perch.
10. Raise until you can install the 1 3/4" plate. There is an alignment pin on the spacer that fits into a hole on the axle. (If you are having trouble getting it lined up, you can physically move the wheel to get the plate into alignment.) Note: The pin goes down and hole goes up.



DOWN

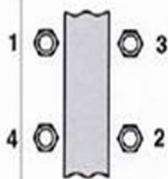


UP

11. Once that is in place, drop the jack and install the new U-bolts in place. Using the 7/8" socket, tighten to 90 ft. lbs.
12. Repeat for both sides.

Torque U-bolts Evenly

Follow these guidelines when installing U-Bolts:



- Tighten all U-Bolts until they are snug only.
- Tighten in the sequence shown to approximately 1/3 of recommended torque.
- Repeat, using the same sequence, gradually increasing the torque through a second and third stage until the recommended final torque is attained.

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Installing New Rear Bump Stops

13. Jack the rear body of the vehicle up. This can also be done by jacking up slightly on the hitch. Do not raise the tires off the ground.
14. Put Blue thread-lock from the kit onto the new Sumo bump stops (yellow in pictures below). Twist in to place and tighten by hand only.
15. Repeat the process on the opposite side.



Installing Front Spacers (Front-End)

16. Jack up the front of the vehicle so you can access either coil springs.
17. Before installing the new spacer, be aware there is a top and bottom. The shallow side is on top, the deep side goes on the bottom.
18. Insert the spacer between the springs, and rotate the spacer around until the spacer snaps in completely.
19. Loosely zip tie to the top spring.
20. Tighten your zip ties (5 total). Rotate the spacer and then tighten the next one, cont. Repeat until all are tight. Be sure to trim off any excess zip tie.
21. Lower the jack and repeat the install process on the other side.



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Vehicle Alignment

Although Thor Motor Coach (TMC) does not expect these modifications to have an impact on the alignment of your vehicle, we recommend that the alignment is checked after performing these procedures. In most cases your RV dealer performing this TSB will not have access to alignment equipment, and may need to be done at a qualified shop. You may contact TMC at 877-855-2867 for assistance in getting an alignment performed under this TSB.