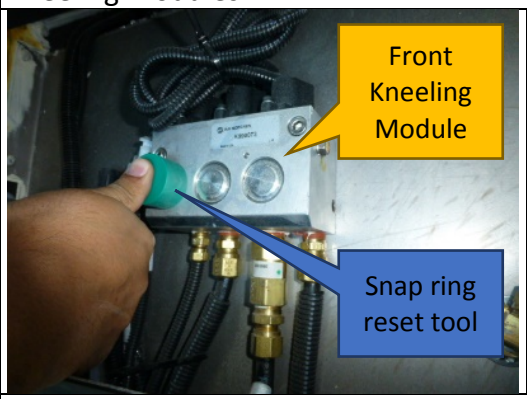
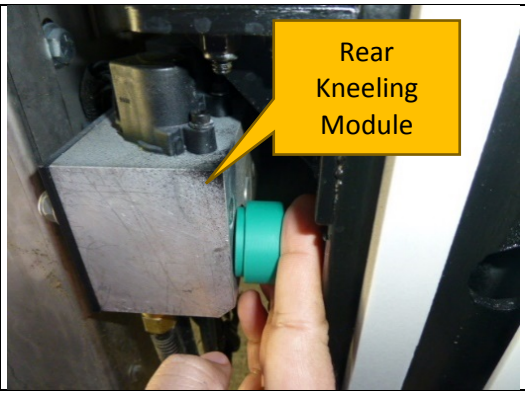
06/02/2017

Gillig Campaign ID Number: 17V-263

RECALL REMEDY INSTRUCTIONS

Topic:	Inspection and Rework Procedure for Valve Snap Rings in Norgren Suspension Kneeling Modules  
Part Numbers:	Gillig Part Number: 01-45322-001/Norgren Part Number: K990073 Gillig Part Number: 01-45322-002/Norgren Part Number: K990076
Applies to:	Part numbers above with a Date Code of: **M15, A16, B16, C16, D16, E16, F16, G16** (valves built by Norgren between December 2015 to July 2016)
Estimated Labor:	45 minutes to inspect and reset the front kneeling module valves 15 minutes to inspect and reset the rear kneeling module valves (if so equipped)
Tools Required:	1. # 3 Phillips screw driver or electric screw driver with #3 Phillips tip 2. Snap ring reset tool (provided by Norgren through Gillig)
Questions:	Gillig Service: 1-510-264-5073 (or toll free at 1-800-735-1500) on weekdays between 5:00 AM and 2:30 PM Pacific Time

Inspection and Reset Procedure for Front Kneeling Modules

1. Safely park the bus and apply the parking brakes, ensure the bus is parked where the front and rear suspensions can be kneeled. Do not put the bus on a lift. For all tests the main power disconnect switch must be in the ON position.

Front Kneeling Module Location:
- **Located under the front side of the front wheel cover**
- **Remove the cover to access the kneeling module**

2. Locate and remove the kneeling valve access cover.

Detail 1
35'/40' Bus with Taper Top Wheelwell,

Detail 2
35'/40' Bus with Square Top Wheel,

Detail 3
29' Bus
Streetside

3. If possible, locate the part number decal and confirm the date code. If the date code is not one of the following, no further inspection and rework is required. Reinstall cover and inspection/rework of the front module is complete.

a. Date Codes that require rework: M15, A16, B16, C16, D16, E16, F16, G16

Date code on decal on face of kneeling module.

Date Code is in lower right hand corner. The date code on this module is "L16." Therefore, it does not require rework.

4. If the Date Code cannot be determined or if an affected Date Code Continue to step 5
5. Place the Main Run control in the day run position. Use the kneel switch to fully kneel the front suspension, hold the kneel switch in the kneel position for at least 10 seconds to fully exhaust all air pressure in the air bags. Release the switch.
6. ⚠ Fully open the accessory air tank and wet air tank drain valves and leave open to allow the tanks to fully drain.

Air tank drain valve access door

Accessory Tank Drain Valve

Wet Tank Drain Valve

7. Turn the main run control from Day Run to OFF. The front suspension should not rise.
8. ⚠ Place the snap ring tool over the snap ring/valve cavity and press down by hand with only moderate pressure (about 3-8 lbs.) to press the snap ring to the correct position. If you push the tool all the way into the cavity and nothing happens (i.e., no snapping noise), the ring is already properly seated. No further actions are required for that cavity. Repeat procedure on all the snap ring/valve cavities. Kneeling modules have 3 or 5 snap ring cavities depending upon application.

Place snap ring tool into snap ring cavity and press down by hand. Apply moderate force about 3-8 lbs. to seat snap ring. Repeat in all snap ring cavities.

(The 3-valve module is shown in the picture. Your front module may have 3 or 5 valves to reset.)

9. Permanently mark the front surface of the module (avoid writing on the Part Number Decal) to indicate that the reset repair has been completed (e.g., “Insp. 5/26/2017”).
10. Reinstall the screws holding the access cover in place.
11. Rework for front kneeling module is complete.
12. If your bus is equipped with a rear kneeling module, continue **DIRECTLY to Step 6 in the Inspection and Reset Procedure for Rear Kneeling Modules** without completing the next step (Step 13) of this procedure.
13. If your bus does not have a rear kneeling module, complete the following steps:

a. Close both accessory tank and wet tank drain valves. Start engine and allow air pressure to build up to cut-out pressure. Leave engine running.
b. Using the kneel switch to raise the front suspension. Ensure the suspension rises normally. Repeat three kneel and rise cycles.
c. Turn off the engine.

Inspection and Reset Procedure for Rear Kneeling Modules

It is not possible to inspect the date code on decal on the rear kneeling module when the module is installed on the bus. If a bus VIN is listed in the owner notification letter and has a rear module, please complete the following reset procedure.

Steps

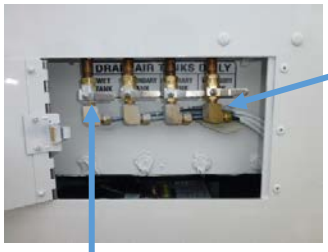
1. Safely park the bus and apply the parking brakes, ensure the bus is parked where the front and rear suspensions can be kneeled. Do not put the bus on a lift. For all tests the main power disconnect switch must be in the ON position.
2. Locate the rear suspension kneeling module, located curbside behind the air dryer. Open the curbside engine skirt panel to access.

Kneeling Module behind air dryer, curbside.

3. Place the Main Run control in the day run position. Use the rear curbside kneel switch to fully kneel the curbside rear suspension, hold the kneel switch in the kneel position for at least 10 seconds to fully exhaust all air pressure in the air bags. Release the switch.

4. ⚠ Fully open the accessory air tank and wet air tank drain valves and leave open to allow the tanks to fully drain.

Air tank drain valve access door



Accessory Tank Drain Valve

Wet Tank Drain Valve

5. Turn the main run control from Day Run to OFF. The rear suspension should not raise.

6. Place the snap ring tool over the snap ring/valve cavity and press down by hand with only moderate pressure (about 3-8 lbs.) to press the snap ring to the correct position. If you push the tool all the way into the cavity and nothing happens (i.e., no snapping noise), the ring is already properly seated. No further actions are required for that cavity. Repeat on all 3 snap ring cavities.

Insert snap ring tool into snap ring cavity. Press down by hand with moderate force about 3-8 lbs. to seat snap ring. Repeat for all 3 cavities in the rear module.

7. Permanently mark the side surface of the module to indicate that the reset repair has been completed (e.g., “Insp. 5/26/2017”).
8. Close both accessory tank and wet tank drain valves. Start engine and allow air pressure to build up to cut out pressure. Leave engine running.
9. Using the kneel switch to raise the front and rear suspension. Ensure both front and rear suspensions rise normally. Repeat three kneel and rise cycles.
10. Turn off the engine.
11. Close and latch the skirt panel.