



Spartan Fire, LLC

Recall Service Bulletin
RSB21-260-001B

DATE: 6/18/2021

APPLIES TO: This Recall service bulletin applies to 2019 through 2021 model year, Gladiator and Metro Star model emergency response chassis cabs built between February 13, 2020 to September 17, 2020.

NHTSA/TC id: 21V-252

CONDITION: Vehicle may lose power steering and power steering fluid may enter engine oil.

CORRECTION: Replace power steering pump, power steering fluid, and engine oil.

LABOR ALLOCATION: 3 hours

CLASSIFICATION: V3

PARTS NEEDED:

L9 Frame Mounted Intake – RH Rail

<u>QTY</u>	<u>Part Number</u>	<u>Description</u>
1	1453-KK1-001	Power Steering Pump
1	1795-KK1-001	Gasket
1	3937557-S	Hydraulic Filter
1	LF14009NN	L9 Engine Oil Filter

Reference: S-3761-001

L9 High Air Intake

<u>QTY</u>	<u>Part Number</u>	<u>Description</u>
1	2006-KK1-002	Power Steering Pump
1	1795-KK1-001	Gasket
1	3937557-S	Hydraulic Filter
1	LF14009NN	L9 Engine Oil Filter

Reference: S-3761-002

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X12

<u>QTY</u>	<u>Part Number</u>	<u>Description</u>
1	2006-KK1-003	Power Steering Pump
1	1795-KK1-001	Gasket
1	3937557-S	Hydraulic Filter
1	LF14000NN	X12 Engine Oil Filter

Reference: S-3761-003

X15

<u>QTY</u>	<u>Part Number</u>	<u>Description</u>
1	1453-KK1-001	Power Steering Pump
1	1795-KK1-001	Gasket
1	3937557-S	Hydraulic Filter
1	LF14001NN	X15 Engine Oil Filter

Reference: S-3761-004

GENERAL INSTRUCTIONS:

Thoroughly review entire service bulletin before starting work. If there are questions or concerns with steps defined in this service bulletin, contact Spartan Fire, LLC. Customer & Product Support Group.

All applicable industry safety standards must be followed when performing work identified in this procedure.

STEP-BY-STEP INSTRUCTIONS:

1. Drain power steering fluid.
2. Disconnect power steering pump hoses.

Refer to Figure 3-1

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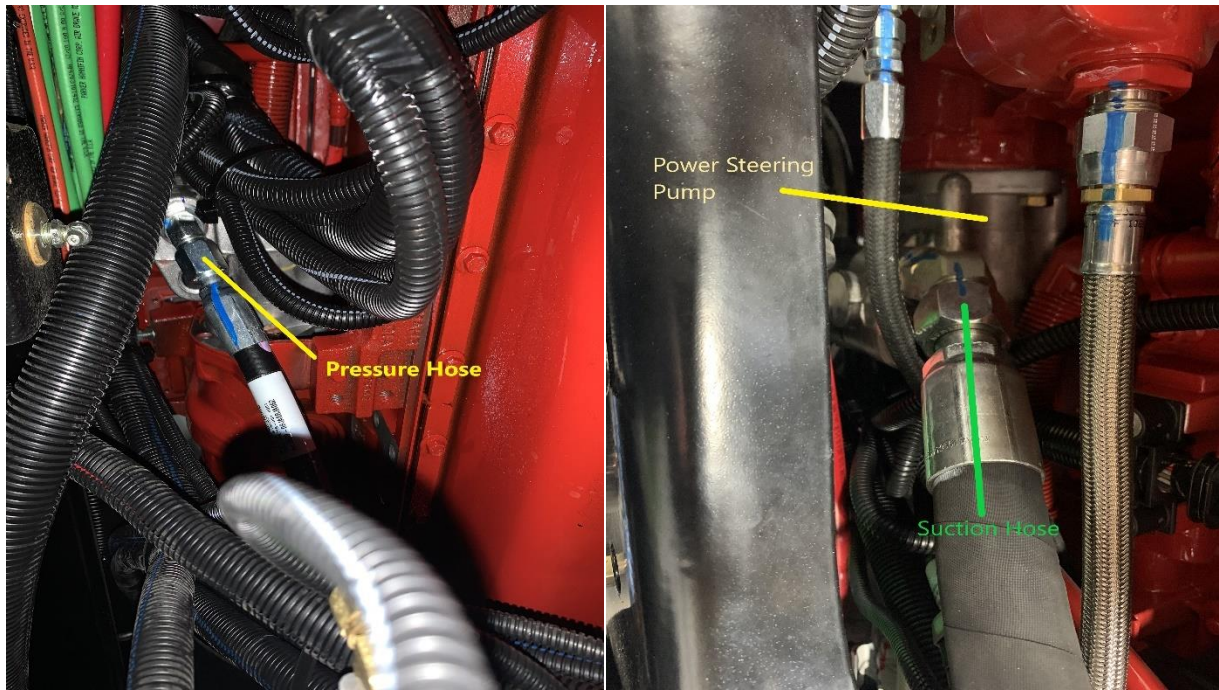


FIG 3.1

3. Remove power steering pump and dispose of properly.
4. Clean gasket area and remove excess oil from region.

Refer to Figure 4.1

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FIG 4.1

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5. Install power steering pump with new gasket. Torque power steering pump fasteners to 30 ft.lbs. Refer to Figure 5.1

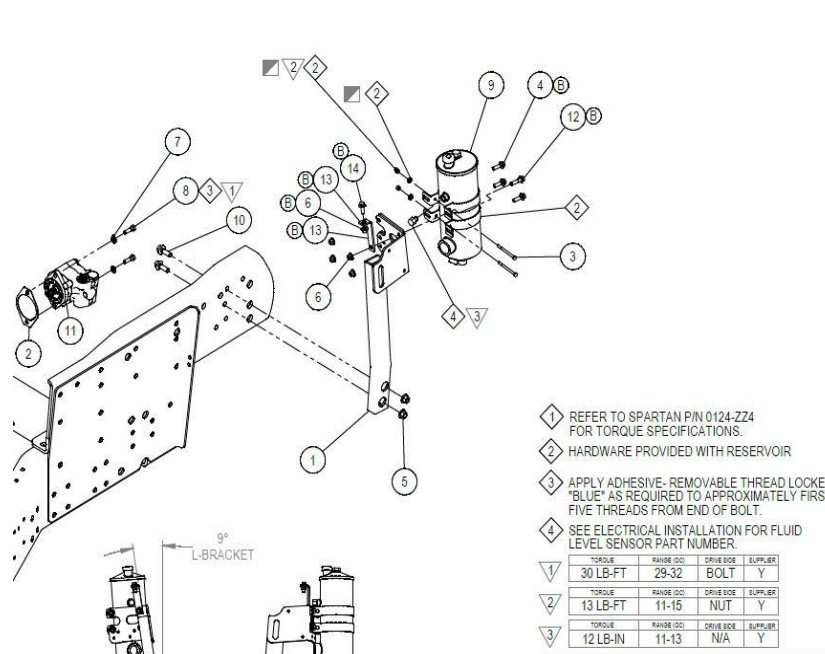


FIG 5.1

6. Reconnect existing power steering pump hoses.

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Replace Power Steering Filter:

7. Remove power steering top/lid.
8. Remove power steering sensor.
9. Remove power steering filter in reservoir.
10. Install new power steering filter.
11. Reinstall power steering sensor and torque to 12 inch-pounds.

Refer to Figure 6.1

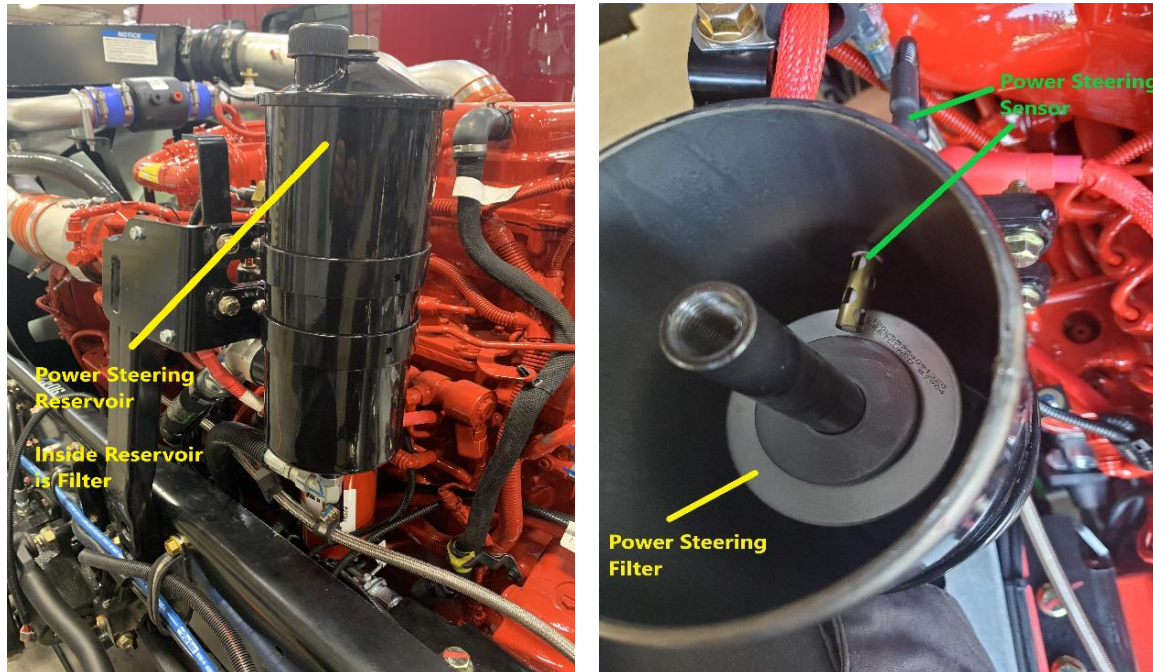
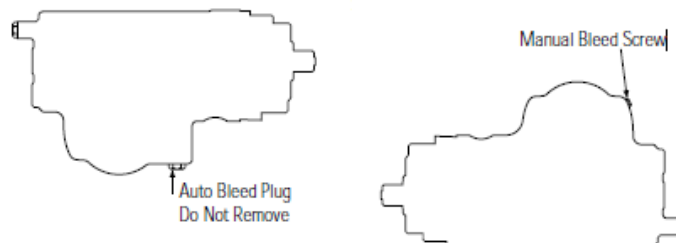


FIG 6.1

12. Reinstall existing power steering top/lid.
13. Fill power steering system with Dexron III Multipurpose Trans/power steering fluid.
14. Follow the appropriate power steering bleed procedure below:
First determine if gear is manual bleed or automatic bleed equipped.



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Automatic Bleed System Procedure:

- a. Fill power steering reservoir. Do not steer. Start and run engine for 10 seconds. Shut engine off. Refill power steering reservoir. Repeat at least three times, rechecking fluid level each time.
- b. Start engine and let idle for 2 minutes. Do not steer. Shut off the engine and check the fluid level in the reservoir. Refill as needed.
- c. Start the engine again. Steer the vehicle from full left and to full right several times. Add fluid, as necessary, to the full line on the dip stick.

Manual Bleed System Procedure:

- a. With the engine idling, steer from full left turn to full right turn several times. Stop steering and loosen manual bleed screw about one turn. Allow air and aerated fluid to bleed out until only clear fluid is seen. Close the bleed screw, refill the reservoir if required.
- b. Repeat three to four times until all air is discharged. Torque manual bleed screw to 45 lbf in.

Engine Oil Change:

Note: This is needed to be done as Power Steering fluid may have entered the engine oil pan.

1. Drain Engine oil.
2. Replace engine oil filter.
3. Fill engine with new engine oil.
4. Run engine for a few minutes.
5. Check engine oil level and top off as needed.

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