



Thor Motor Coach Technical Service Bulletin

TSB #	TSB 21-05		
Description/Title:	LP Tank Fill Valve		
Affected Product Line(s):	Certain model year 2022 Chateau, Compass, Delano, Four Winds, Freedom Elite, Gemini, Magnitude, Omni, Quantum, and Tiburon motorhomes equipped with a SMPC model 20.3 Gallon LP tank <i>(only units offline 6/14/2021 to 8/10/2021)</i>		
Service Campaign # :	RC000238	Released Date:	12/1/2021
Codes:	Inspect Only: TMCTS80270Y *photo required* Repair: TMCTS80270W *photo required*	Document Date:	12/1/2021
Time Allowed:	Inspect Only: 0.1 Inspect with Repair: 1.5	Document Revision:	A

Issue:

It has been discovered that on Flame King model SMPC 20.3 Gallon LP tanks, there is a faulty fill valve. The following instructions will provide step-by-step directions on how to properly replace the fill valve. *(only units offline 6/14/2021 to 8/10/2021)*

Tools Required:

- Floor jack
- Wire cutters
- 1 ¼” wrench
- 7/8” wrench
- Breaker bar
- 14mm deep well socket with extensions
- Small screwdriver or hook pick
- Zip tie

Part(s) Required:

TMC Part # **0503545** - Replacement Fill Valve

Instructions:

1. Make sure tank is a SMPC model tank. **Include Photo in Pre-Authorization**
 - a. If yes, continue on to replacement instructions.
 - b. If no, repair is not needed and inspection is complete.



2. **WARNING!** – Tank may be under pressure depending on LP level at time of repair. Take **extreme** caution when lowering tank and ensure there are no open flames or sparks that could ignite the LP when removing the valve.

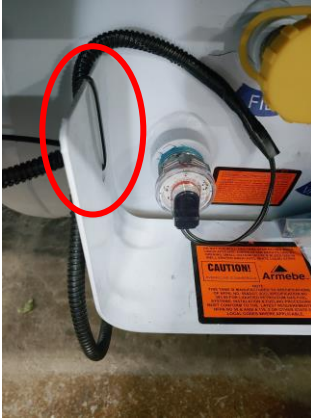
3. Remove regulator clips and cover.



4. Remove regulator with 7/8" wrench. Reverse threads clockwise to remove.



5. Cut zip tie.



6. Pop off 90 OHM gauge.



7. Position jack underneath tank.



8. Using a 14mm deep well socket, remove all four (4) nuts.



9. Lower floor jack and slide out LP tank from under unit.

10. Remove yellow dust cap.



11. Take tank to well-vented area and open regulator valve to release any remaining/potential LP still in tank. ***Make sure you are in an area with no open flames or possibility for sparks.***

12. Removal of valve. Turn ASME tank with the valve facing up so as not to damage the float valve.
a. With a 1 1/4" wrench, turn counter clock wise to loosen valve. (May need breaker bar if difficult to remove.)



13. Remove valve. Clean threads from old thread sealant from valve.



14. Insert new valve. Install turning clockwise until the valve is tight and no longer able to turn since it is a tapered thread.

- a. Make sure the valve is facing up with the indication of TOP on the valve and tank. The valve will not work if it is installed improper.



15. The valve on the right is the old fill valve and the valve on the left is the replacement. Notice it is longer with a brass additional piece.



16. Put a small amount of LP in tank to test and ensure fill valve is operating properly.
 - a. Check for leaks around fill valve threads.

17. Once the valve has been replaced and a leak test has been passed, slide LP tank back under unit.
Position LP tank on floor jack.
 - a. Lift LP tank so all four (4) bolts line up with the LP tank brackets.
 - b. Install washers, lock washers, and nuts on all four (4) bolts and tighten.

18. Re-Install tank gauge



19. Re-secure wire harness with new zip tie.



20. Re-Install regulator, tightening counter clockwise. Re-install regulator cover.

