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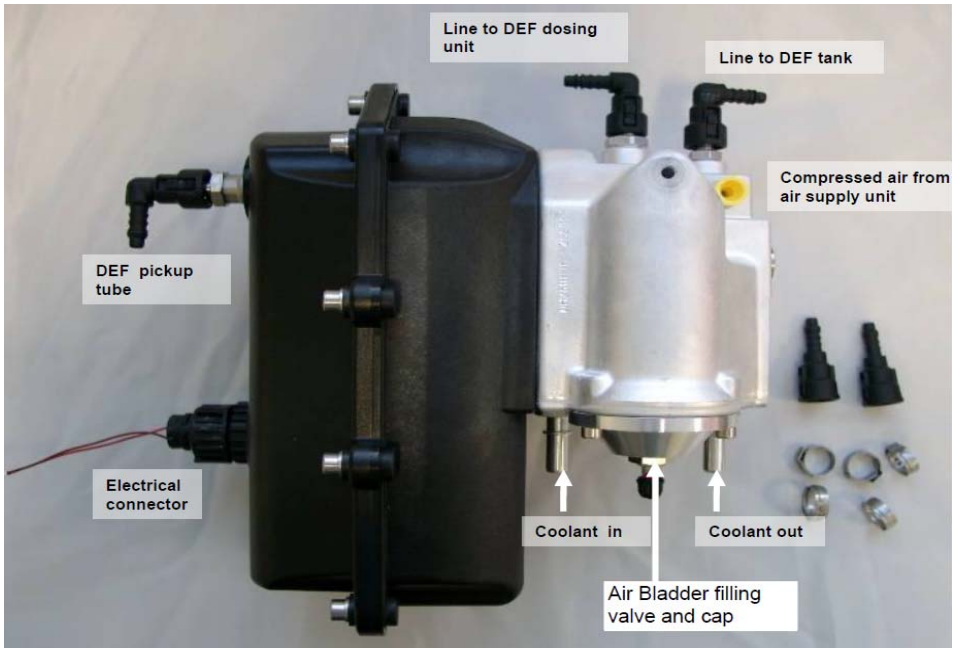
| **COACH MODEL :** | All VanHool Coaches with DD13 Engines and EPA 2010 Emissions |
| **DATE :** | January 1, 2014 |
| **SUBJECT :** | DEF Pump Air Bladder Information |

The DEF pump module uses a serviceable air bladder to maintain consistent DEF pressure to the DEF metering unit. The DEF pump module bladder comes from the factory charged with nitrogen, but empty as a replacement part.

The DEF pump module bladder must be discharged prior to removal and will be recharged after installation with clean, dry, oil-free shop air. It does not have to be recharged with nitrogen. The DEF pump module bladder is recharged with air to 2.8-3.2 bar (40-46 psi) upon installation. The bladder's air pressure needs to be checked every two years.




To replace the bladder:

Shut off engine and apply the parking brake, chock the wheels, and perform any other applicable safety steps.
Remove the air cap from the DEF pump module air bladder. Release any air contained in the DEF pump module air bladder by pressing in on the Schrader valve.
Remove the screws attaching the DEF pump module air bladder to the DEF pump module. Pull the DEF pump module air bladder out of the DEF pump module.

Install the new pump module air bladder into the DEF pump module and torque the screws attaching the DEF pump module air bladder to the DEF pump module to 3.68 - 4.32 Nm (32.5 - 38.5 lb in).
Using clean, dry, and oil-free shop air, a standard air fitting and an air pressure gauge, inflate the DEF pump module air bladder to 2.8-3.2 bar (40-46 psi) through the Schrader valve.