

DART Coolant Valve Replacement



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Property name and Top bus number: DART 304500 – 306500 – 313000 – 314000 - 323000

Issue: Cummins coolant valve leaking at coolant filter

Reason/ cause: Original Cummins coolant valve located at the coolant filter on the engine may develop leaks after a period of time.

Solution: Replace coolant valve at coolant filter.



DART Coolant Valve Replacement



1. **Park the bus and apply the parking brake.**
2. **Turn off main battery disconnect switch(es)**
3. **In the rear of the bus on the left side of the engine you will see the coolant filter.**
4. **Pinch off water lines to the filter head with 2 pairs of hose clamp pliers.**
5. **Remove hose clamps and pull hoses of existing valve.**
6. **Remove the 4 bolts from the top of the water filter head and remove.**
7. **Put the filter head in a vice.**
8. **Remove the water valve.**
9. **Apply pipe sealer to valve pipe threads and hose barb pipe threads.**
10. **Install new style water valve and hose barb.**
11. **Install filter head and tighten to 212 inch LBS.**
12. **Install new hose clamps on lines and put lines on the valve.**
13. **Tighten hose clamps until snug.**
14. **Remove both pairs of hose clamp pliers.**
15. **Turn both valves to open position.**
16. **Check for completeness of work.**
17. **Remove all tools from working area.**
18. **Turn the main battery disconnect switch(es) on.**
19. **Start engine and let idle for 5 minutes**
20. **Check for leaks**
21. **If no leaks are present, job is complete**