



**Countries:** CANADA, UNITED STATES, MEXICO, PUERTO RICO  
**Availability:** ISIS, Bus ISIS, FleetISIS  
**Major System:** COOLING  
**Current Language:** English  
**Other Languages:** [Français](#), [Español](#)  
**Viewed:** 4430

**Document ID:** IK0900032  
**Revision:** 4  
**Created:** 1/29/2011  
**Last Modified:** 12/13/2013  
**Author:** Thomas Hoffmeister

[Less Info](#)

Hide Details

Coding Information

| Copy Link | Copy Relative Link | Bookmark                              | Add to Favorites | Print | Provide Feedback | Helpful | Not Helpful |
|-----------|--------------------|---------------------------------------|------------------|-------|------------------|---------|-------------|
|           |                    | <br><a href="#">View My Bookmarks</a> |                  |       |                  | <br>808 | <br>448     |

**Title: Phosphate Conditioner Required When Replacing Radiators**

**Applies To: 2010 Emissions Model ProStar®, TranStar®, PayStar®, 9900®, and WorkStar® Models with 2009.5, 2009.75 and EPA 2010 MaxxForce® 11, 13, and 15 engines**

## DESCRIPTION

Phosphate conditioner is required whenever the High Temperature Radiator (HTR) and/or Low Temperature Radiator (LTR) are replaced on any applicable chassis. The conditioner coats the internal components for improved cooling characteristics and corrosion resistance.

## PARTS INFORMATION

| Part #    | Description                               | Qty.              |
|-----------|---|-------------------|
| 2611268C1 | Fleetrite® Radiator Phosphate Conditioner | 4-1 Liter Bottles |

### Ordering Instructions:

Initial stocking order will be part of MaxxForce® auto ship program. For additional stock, please order directly from your home PDC. See [G19-8923A](#)

## SERVICE PROCEDURE

After radiator replacement and coolant refill process is complete add one complete bottle of the conditioner to the coolant surge tank before installing the pressure cap. No further phosphate conditioning is required. Follow applicable operators and maintenance manual for maintaining the cooling system.

- This is not a maintenance item, and is only required in the event the High Temperature Radiator (HTR) and or Low Temperature Radiator (LTR) is replaced, for any reason, on one of the applications listed above.
- The vehicles are pre-conditioned from the factory. If no coolant concerns arise, the conditioner will not be needed and should not be added.
- This item is intended for one time use when the HTR and/or LTR are replaced. The conditioner level cannot be checked, adjusted, or serviced.

## FREQUENTLY ASKED QUESTIONS

**Q: How many bottles of conditioner are required?**

**A: One bottle of conditioner is used per vehicle, only if the High Temperature Radiator (HTR) and/or Low Temperature Radiator (LTR) are replaced.** The conditioner is preloaded from the factory and is not required unless one of these components is replaced. Additional conditioner should not be added at any time, except with a separate repair event requiring replacement of the High Temperature Radiator (HTR) and/or Low Temperature Radiator (LTR).

**Q: Is the conditioner necessary if the cooling system is serviced, but neither the Radiator nor High Temperature Radiator (HTR) is replaced?**

A: No. The conditioner is only used when the High Temperature Radiator (HTR) and/or the Low Temperature Radiator (LTR) are replaced on the listed applications.

**Q: I have replaced the HTR and/or LTR on a vehicle not listed in the 'applies to' section. Do I need the conditioner?**

A: No. The conditioner is only required for use on vehicles listed above. The use of the conditioner does not apply to 2007 emissions equipped products. The use of the conditioner does not apply to the 2010 MaxxForce 7, 9, 10, or DT engines. This conditioner is not an SCA additive or extender and should not be added to any vehicle except where specified above.

**Q: How to I check the conditioner level?**

A: The conditioner is not a maintenance item, and the level cannot be checked, adjusted, or serviced. There is no required maintenance with the conditioner. The conditioner should not be added to any system except during a repair requiring the replacement of the HTR and/or LTR on the listed applications. Reference notes (1) and (1a).

**Q: What is the maintenance interval for the conditioner?**

A: The conditioner is not a maintenance item, and the level cannot be checked, adjusted, or serviced. There is no required maintenance with the conditioner. Reference notes (1) and (2).

**Q: The conditioner was not added at the time of repair for a HTR and/or LTR replacement on an affected vehicle. What should be done?**

A: The conditioner should be added at the soonest available service opportunity. No further action is necessary.

**Q: What should be done if conditioner was added to an applicable vehicle without Radiator and/or HTR replacement or to a vehicle not listed above?**

A: No action is necessary.

**REFERENCE NOTES:**


1. The applicable vehicles listed on this article all require the use of Shell Rotella Ultra Extended Life Coolant (ELC). This is an Organic Additive Technology (OAT) based coolant. Many non OAT based coolants have very high phosphate levels. Cross contamination with another type of coolant may lead to increased phosphate levels (Note 1) as well as other potential performance issues. In the event of cross contamination follow the procedure in the applicable service manual for flushing the cooling system and replace the coolant with Shell Rotella Ultra Extended Life Coolant (ELC)

2. It is possible for the system to be overloaded with phosphates from multiple repairs using the conditioner. If multiple (3+) HTR and/or LTR repair events requiring conditioner are performed and the coolant has been recovered and re-used each time the system may become overloaded with phosphates. This can lead to excessive build-up on the internal components and may reduce cooling efficiency. There is not currently a commercially available product to test the phosphate level. If an overloaded level is suspected a coolant sample can be taken and sent to an independent lab for testing.



**OTHER RESOURCES**

- [IK0900028 Service Information New Shell Rotella Ultra Extended Life Coolant \(ELC\)](#)
- [SFN1053-RA KL5007NAV Navistar Coolant Management Tool](#)
- [IK1200548 EPA 2010 MaxxForce 11 and 13 Service Resource Center](#)
- [G-19-8923-A Radiator Phosphate Conditioner](#)

|  |                             |
|--|-----------------------------|
|  Hide Details | <b>Feedback Information</b> |
|  | Viewed: 4429                |
|  | Helpful: 808                |
|  | Not Helpful: 448            |
| No Feedback Found  |                             |