

**MIN – 13105**

20 March 2013

**Subject:**

Air Compressor Replacement for Certain Vehicles with MaxxFORCE 13 Engines.

**BUILD DATES:** 14 November 2012 through 16 November 2012

**DESCRIPTION:** This MIN applies **ONLY** to certain ProStar® and WorkStar® vehicles flagged with MIN # 13105 and shown below. All other vehicles built during this period have either been repaired prior to shipment or determined to not require this air compressor replacement.

The following VINs with truck feature code 04SPL and engine feature code QL03CA may have damaged thrust bearings, which may result in damage to the air compressor.

DH414745	DH418487	DH419970	DJ241226	DJ353970
DJ353974	DJ414703	DJ414704	DJ414705	DJ414717
DN155126	DN155128	DN155131	DN415237	DN415252
DN419602	DN419607	DN419609	DN419610	DN431036

**Tools Required:**

<b>Description</b>
Coolant Management Tool KL5007NAV
Hand Tools

**Table 1. Tools Information.****Parts Required:**

Part Number	Description	Quantity
3709815C94	Two-cylinder air compressor	1
1841185C1	18 mm O-Ring (top of air compressor for coolant supply hose and coolant return hose)	2
2601295C1	O-Ring (power steering pump to air compressor connection)	1

Part Number	Description	Quantity
ZSH550024730G	1 gallon of coolant	1
Obtain locally	1 quart of 15W40 oil that meets CJ-4 specifications	1
Obtain locally	Loctite <sup>®</sup> 5900 sealant or Wacker <sup>®</sup> A-442 RTV	As required
Obtain locally	P80 <sup>®</sup> rubber lubricant or equivalent	As required
	<b>Replace the following ONLY if damaged:</b>	
3007774C2	Air compressor coolant return hose (includes 21 mm constant tension clamp)	1
3007767C3	Air compressor coolant supply hose (includes 21 mm constant tension clamp)	1

**Table 2. Parts Information**

## Work Instructions

**WARNING!** Park vehicle on hard flat surface, turn the engine off, set the parking brake, and block the wheels to prevent the vehicle from moving in both directions. Failure to do so may result in property damage, personal injury, and / or death.

**WARNING!** If the vehicle must be raised, do not work under the vehicle supported only by jacks. Jacks can slip or fall over, potentially resulting in property damage, personal injury, and / or death.

**WARNING!** Always wear safe eye protection when performing vehicle maintenance. Failure to do so may result in personal injury and / or death.

**WARNING!** Keep flames or sparks away from vehicle and do not smoke while servicing the vehicle's batteries. Batteries expel explosive gases. Failure to do so may result in property damage, personal injury, and / or death.

**WARNING!** Remove the ground cable from the negative terminal of the battery box before disconnecting any electrical components. Always connect the ground cable last. Failure to do so may result in property damage, personal injury, and / or death.

**NOTE:** Prior to beginning this procedure, drain the cooling system. Refer to [TSI 12-12-01](#).

1. Remove air compressor; refer to 2010 MaxxForce 11 and 13 Engine Service Manual page 183. <https://evaluate.internationaldelivers.com/service/SVCDOCS/Navistar/SVCMANPDF/0000001682.pdf>

2. Remove coolant hose fittings and O-rings from air compressor. Discard O-rings.

**NOTE:** Lubricate the new O-rings with P80 rubber lubricant or equivalent.

3. Install new O-rings and coolant hose fittings on replacement air compressor.

**NOTE:** As indicated in the service manual, replace the power steering pump collar O-ring, if damaged. Lubricate the new O-ring with P80 rubber lubricant or equivalent.

4. Install air compressor; refer to 2010 MaxxForce 11 and 13 Engine Service Manual page 183. <https://evaluate.internationaldelivers.com/service/SVCDOCS/Navistar/SVCMANPDF/0000001682.pdf>

5. Top off engine oil.

6. Using [Coolant Management Tool KL5007NAV](#), refill cooling system.

7. Carefully remove coolant surge tank cap and install surge tank cap adapter, part of Coolant Management Tool KL5007NAV.

8. Connect clean, dry compressed air (15 psi) to surge tank cap adapter and open air valve.

9. Inspect for any signs of external coolant leakage. If leakage is observed, determine source of leak. If no leakage is observed, leak testing is complete.

10. Verify proper engine operation with no fault codes or leaks present.

11. Close and secure hood.

12. Remove wheel blocks.

## LABOR INFORMATION

Operation number must appear on all claims.

Labor Information		
Operation No.	Description	Time
A40-13105-1	Replace Air Compressor and Pressure Test Cooling System	WorkStar® 4.5 hrs
A40-13105-2	Replace Air Compressor and Pressure Test Cooling System	ProStar® 4.1 hrs

**Table 3. Labor Information.**

## WARRANTY CLAIMS

### ADMINISTRATIVE PROCEDURE

Expense is to be charged to Warranty. Claims are to be submitted in the normal manner, making reference to MIN-13105.

It is important that the coding be completed properly to assist in processing the warranty claim. Complete instructions will be found in the Warranty Policy Manual, Section 7.1.8.

As with all claim submissions, items acquired locally must be submitted in the "Other Charges" tab. The cost of any bulk items (such as bag of cable tie straps, roll of wire, barrel of oil, or tube of silicone) should be prorated for the cost of the individual pieces / amount used during each repair.

To ensure this important improvement is made in a timely manner, all claims for MIN 13105 activity must be submitted by 31 March 2014 or within the normal warranty period for the vehicle, if after 31 March 2014.

