



SP 2-219-001
SERVICE PROGRAM

August, 2016

ATTENTION:

Service Managers / Parts Managers

SUBJECT:

Charge air cooler (CAC) pipe and static pipe replacement.

DESCRIPTION OF WORK:

This service program provides information regarding the replacement of the CAC pipe and the static pipe on certain 2016 model year Xpeditor vehicles equipped with ISL engines.

PROGRAM EXPIRES:

August 31, 2017

VEHICLES AFFECTED:

This Service Program covers 93 vehicles. Refer to the VIN list beginning on page 6.

SERVICE RESPONSIBILITY:

Service Programs are performed on eligible vehicles at no charge to the owner until the expiration date listed above.

SERVICE PROGRAM INFORMATION:

Service Programs are product modifications and/or product improvements that Autocar has determined will enhance the operation of the truck. In a continuing effort to inform our customers of potential service issues and avoid unnecessary down time, Autocar has identified the following operation as recommended preventive maintenance.

This Service Program should be added to your preventive maintenance and service manuals.

While being committed to continuous product improvement, Autocar is not liable for updating existing chassis after they have been placed in service.

Questions regarding this Service Program should be directed to Autocar Technical Support at 888-218-3611.

TO OBTAIN PARTS:

DO NOT submit a Solutions ticket.

Ensure that you have authorization from the customer to perform this work and send an e-mail to: warranty@autocartruck.com

Include:

1. VIN(s) (or) (last 6 digits of the VIN(s))
2. Attention To Name
3. Ship To Address.



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REQUIRED PARTS:

- S2192000K001 Service kit
 - (1) A2120448-001 Static fill pipe
 - (1) A2190234-001 CAC pipe
- Cable ties (Obtain locally)

CLAIMS FOR REIMBURSEMENT:

Submit a claim for reimbursement in accordance with Autocar's Warranty Administration Manual.

CLAIM CODING INFORMATION:

| Repair Number (Op Code) | Time Allowance (SRT) | Description |
|-------------------------|----------------------|----------------------------------------------------------|
| 26503-2-01 | 2.00 HR | Charge Air Cooler (CAC) Pipe and Static Pipe Replacement |

TOOLS REQUIRED:

- 3/8" drive ratchet
- 3/8" drive torque wrench capable of 72 inch pounds / 6 foot pounds
- 3/8" drive 1/2" deep socket
- Standard pliers
- Drain pan, 15-gallon (57-liter)
- 3/8" drive 3/4" deep socket
- 3/8" drive 5/16" deep socket
- 3/8" drive 7/16" deep socket
- 7/16" combination wrench
- 1/2" combination wrench

SAFETY NOTICES:



WARNING

Allow the vehicle's engine and cooling system to cool to ambient temperature before performing the repair procedure. A hot engine or cooling assembly may cause burns or other personal injury.



WARNING

To prevent eye injury, always wear eye protection when performing vehicle maintenance, service or inspection.



WARNING

Before working on a vehicle, set the parking brake, place the transmission in neutral and block the wheels. Failure to do so can result in unexpected vehicle movement and can cause serious personal injury or death.



WARNING

Take proper precautions before working under the vehicle. Use ramps approved for the weight of your vehicle, or use floor jacks and stands. Never work under a vehicle supported by jacks alone. Always use jack stands to support the vehicle.



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CAUTION

LOCKOUT/TAGOUT PROCEDURES:

Before entering the vehicle or vehicle body, read and follow OSHA regulations concerning entry and working in "CONFINED SPACE" OSHA 1910.146 and "LOCKOUT/TAGOUT" OSHA 1910.147. Follow OSHA regulations while performing any work on the vehicle. The vehicle must be disabled by the following steps before performing any work on the vehicle:

1. Place the transmission in NEUTRAL.
2. Set the parking brake.
3. Shut the engine OFF.
4. Lock cab doors, keep the key in your pocket. Block the wheels before entering the body or performing any work on the vehicle.
5. Turn the battery disconnect switch OFF, if equipped.
6. Completely drain the air from the primary/A system and secondary/B system by opening the drain valves on the air tanks themselves or by using the drain manifold if supplied. When draining the air tanks, do not look into the area where air is draining. Dirt or sludge particles may be expelled in the air stream and can cause eye injury.
7. Place magnetic "DANGER" signs on both cab doors before entering the body or performing any work on the vehicle.
8. Take proper precautions before working under the vehicle. Use ramps approved for the weight of your vehicle, or use floor jacks and stands. Never work under a vehicle supported by jacks alone. Always use jack stands to support the vehicle.



WARNING

Autocar natural gas powered vehicles require specific compliance in the service, storage and refueling procedures.

If you store or dispense Compressed Natural Gas (CNG) or Liquid Natural Gas (LNG), or if you work on CNG or LNG trucks, your location must be fully compliant with applicable codes, regulations and standards, including National Fire Protection Association (NFPA) codes, Society of Automotive Engineers (SAE) standards, American National Standards Institute (ANSI), Natural Gas Vehicle (NGV) standards, the United States Code of Federal Regulations (CFR), and your state and local fire and other applicable codes (including the California Code of Regulations and the Texas Administrative Code, as applicable).

Contact your local fire department for guidance and additional compliance information. Technicians working on Autocar trucks with CNG or LNG engines must be trained in the proper repair of CNG and LNG engines and the safe storage and dispensing of CNG and LNG.

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CAC PIPE AND STATIC FILL PIPE REPLACEMENT:

1. After turning the key to the “OFF” position, remove the key and allow sufficient time for the vehicle to cool down completely.
2. Raise the cab in accordance with the following safety precautions and procedures.



WARNING

Due to the danger of sustaining personal injury and/or damage to the vehicle, never attempt to raise the cab outdoors under extremely windy conditions. Strong wind conditions could force the cab beyond the normal limits of its travel. Never rely on the hydraulic pressure to hold the cab in an open position. Always use the safety pin in the cab tilt lock tube to prevent serious personal injury or death.



WARNING

Remove or secure all loose articles and close all doors before raising the cab. The area above and ahead of the cab must be clear from obstructions. Place front wheels in a straight ahead position.

Remove the pump handle from its storage on the inside of the cab near the driver or passenger seat.

Place the selector lever on the hydraulic pump in the RAISE position. Insert the pump handle into the pump and operate the handle in an up and down motion. The hydraulic cab latches will open, then the hydraulic cylinders will lift the cab until the midpoint (top) is reached.

Once the cab has reached its midpoint the cab will move forward to the fully open position. The safety pin in the cab tilt lock device must be installed when the holes line up in the sliding bar.

Remove the pump handle when not in use. It may stick out and could cause injury to passersby.

3. Remove the cooling system pressure cap.



WARNING

Do not remove the pressure cap from a hot engine. Wait until the coolant temperature is below 120°F [50°C] before removing the pressure cap. Heated coolant spray or steam can cause personal injury.

4. Using a 15-gallon (57-liter) drain pan, drain the cooling system by opening the drain valve on the radiator and the drain valve on the bottom of the engine oil cooler housing. Capture the drained coolant and set aside for reinstallation.

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Note: Refer to the engine manufacturer's instructions for complete cooling system drain procedure and information.



WARNING

Coolant is toxic. Keep away from children and pets. If not reused, dispose of in accordance with local environmental regulations.

5. After the cooling system is completely drained, close the drain valves.
 6. Remove and discard the CAC pipe by first loosening the T-Bolt clamps and then removing the tension clamp, and set aside for reinstallation (See Figure 1).
 7. Install the new CAC pipe (A2190234-001) and tighten the T-Bolt clamps to 72 in-lb/6 ft-lb of torque. Reinstall the tension clamp (See Figure 1).
 8. Remove the tension clamps from the static fill pipe and set aside for reinstallation (See Figure 1).
- Note:** It may be necessary to loosen the oil fill pipe and the dipstick to be able to extract the static pipe.
9. Remove and discard the static fill pipe (See Figure 1).
 10. Install the new static fill pipe (A2120448-001). Reinstall the tension clamps (See Figure 1).

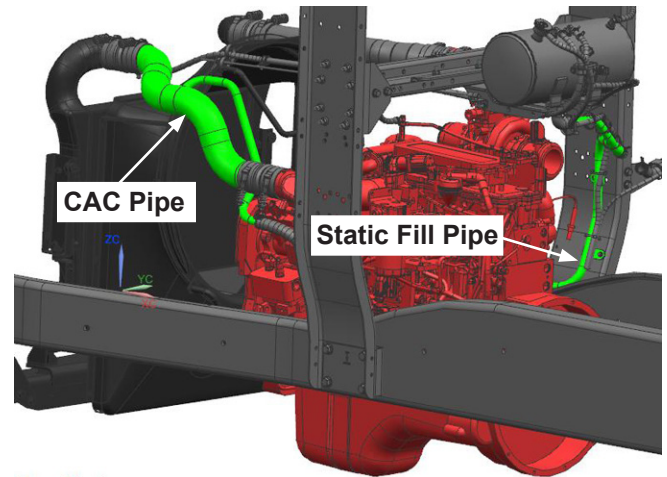


Figure 1

Note: Tighten the oil fill pipe and the dipstick if loosened in step 8.

11. Reinstall the previously captured engine coolant.

Note: Refer to the engine manufacturer's instructions for complete cooling system fill procedure and information.

12. Operate the engine, top off the engine coolant as necessary, and pressure test the cooling system to 16 PSI and check for leaks.
13. Lower the cab.
14. Replacement is complete.



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5VCACRVFXGH221276
5VCACLVF5GH221330
5VCACRVF4GH221306
5VCACRVF2GH221305
5VCACRVF8GH221308
5VCACRVF6GH221307
5VCACLVF2GH221155
5VCACDVF0GH221287
5VCACDVF7GH221352
5VCACLVF2GH221429
5VCACLVF0GH221333
5VCACLVF9GH221430
5VCACLVF0GH221431
5VCACLVF2GH221432
5VCACLVF4GH221433
5VCACLVF0GH221347
5VCACRVFXGH221424
5VCACRVF1GH221425
5VCACSVF4GH221510
5VCACSVF6GH221511
5VCA3DVF0GH221452
5VCACSVF8GH221512
5VCA3DVF2GH221453
5VCACSVF3GH221515
5VCACSVF1GH221514
5VCACSVFXGH221513
5VCACDVF9GH221613
5VCACDVF7GH221612
5VCACSVF5GH221516
5VCACDVF5GH221611
5VCACDVF6GH221617
5VCACDVF4GH221616
5VCACDVF2GH221615
5VCACDVF0GH221614
5VCACLVF7GH221605
5VCACDVFXGH221619

5VCACDVF8GH221618
5VCACDVF6GH221620
5VCACLVF7GH221622
5VCACDVF8GH221621
5VCACDVF5GH221639
5VCACLVF9GH221623
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5VCACLVF2GH221625
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5VCACSVF0GH221679
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5VCACDVF2GH221890
5VCACLVF8GH221760
5VCACLVF1GH221759
5VCACRVF1GH221716
5VCACDVF4GH221535
5VCACLVFXGH221761
5VCACRVF3GH221717
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