

SP 2-201-002  
**SERVICE PROGRAM**

July, 2013

**ATTENTION:**

Service Managers / Parts Managers

**SUBJECT:**

Xspotter Fan Shroud Replacement

**DESCRIPTION OF SERVICE PROGRAM:**

Autocar has identified a defect in material thickness of certain Xspotter fan shrouds which may result in premature failure of the shroud. This Service Program provides instructions to obtain replacement parts and replace the defective shroud. Program Expires: July 31, 2014

**VEHICLES AFFECTED:**

There are 94 affected vehicles with serial numbers in the range 214110 through 215910. Refer to the VIN list beginning on Page 8.

**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.

**REQUIRED PARTS:**

- (1) S2010002K001 Service Kit
- (1) A2010180-001 Fan shroud

**TO OBTAIN PARTS:**

Ensure that you have authorization from the customer to perform this work, and send an e-mail to [warranty@autocartruck.com](mailto:warranty@autocartruck.com) which includes the following:

- VIN(s) (or last 6 digits of VIN(s))
- 'Attention To' name
- 'Ship To' address

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## CLAIMS FOR REIMBURSEMENT:

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

## CLAIM CODING INFORMATION:

Labor Operation Code Number	Time Allowance SRT	Description
14.5.2	2.5 HR	Fan Shroud Replacement

## TOOLS REQUIRED:

- 3/8" Drive 9/16" socket
- 3/4" Combination wrench
- 9/16" Combination wrench
- 3/8" Drive 7/16" deep well socket
- T20 torqs bit
- 3/8" Drive ratchet
- 3/8" Torque wrench capable of 50 ft-lbs
- 1/4" Torque wrench capable of 295 in-lbs

## 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.

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### REPLACING THE FAN SHROUD

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.



#### WARNING

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

3. Drain the engine coolant into a clean container and place aside for reinstallation.



#### WARNING

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

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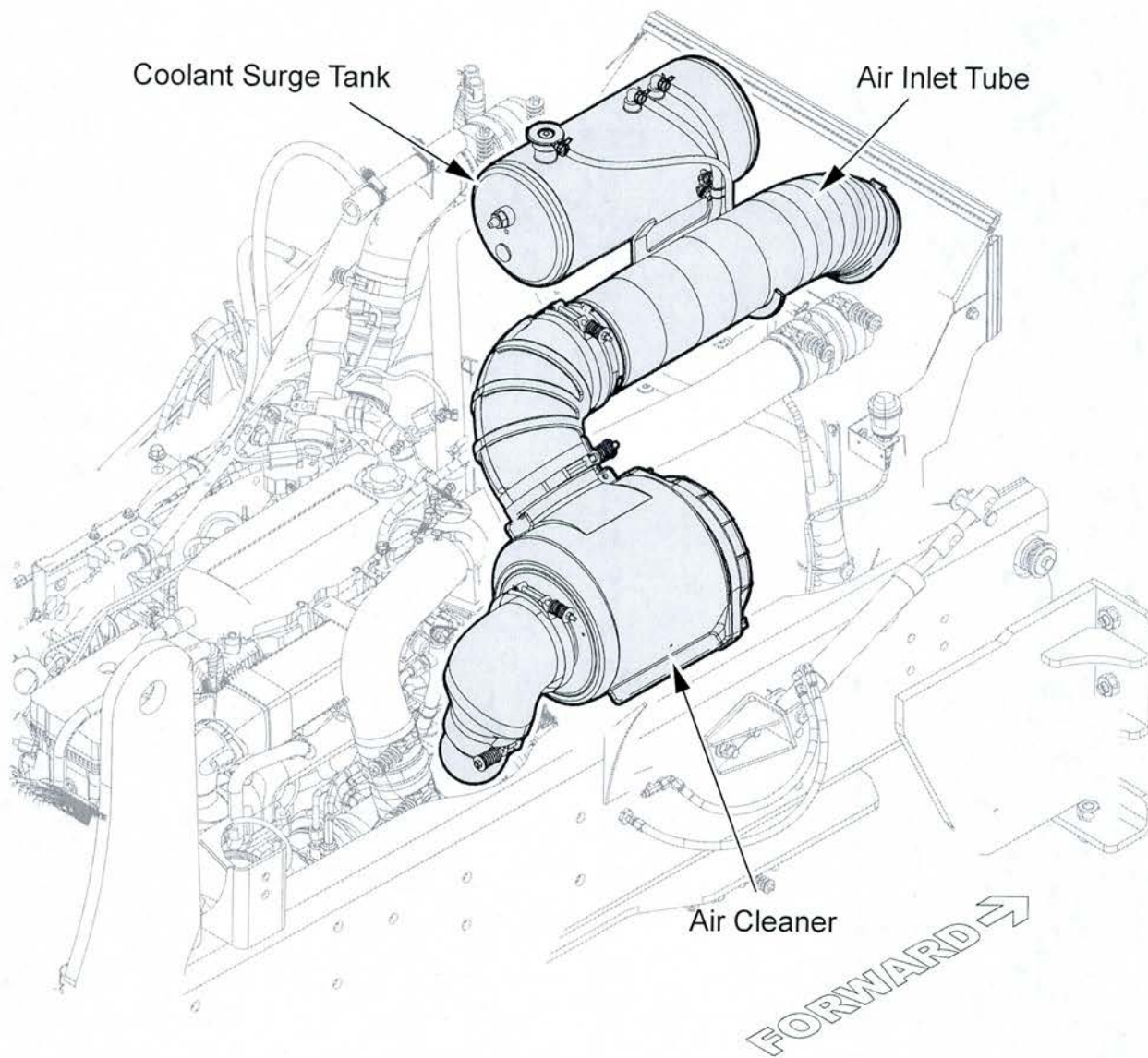
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**Note:** *The drained engine coolant will be reinstalled at the end of the repair procedure.*

4. Remove the air inlet tube and place aside for reinstallation (see Figure 1).
  5. Remove the air cleaner and air cleaner mounting bracket and place aside for reinstallation (see Figure 1).
  6. Remove the charge air cooler (CAC) inlet pipe and place aside for reinstallation (see Figure 2).
  7. Remove the coolant surge tank and place aside for reinstallation (see Figure 1).
  8. Remove the upper coolant pipe and place aside for reinstallation (see Figure 2).
  9. Remove the fan shroud mounting hardware and place aside for reinstallation. Move the shroud rearward to access the fan blade (see Figure 2).
  10. Remove the fan blade and fan mounting studs and place aside for reinstallation (see Figure 2).
  11. Remove the fan shroud and discard (see Figure 2).
  12. Place the new fan shroud (A2010180-001) into position and move it rearward to access the fan drive to reinstall the fan blade.
  13. Reinstall the fan blade and studs that were placed aside in step 10. Tighten to 295 in-lb (33 N-m) of torque.
  14. Move the fan shroud into position and reinstall the fan shroud mounting hardware that was placed aside in step 9. Tighten to 143 in-lb (16 N-m) of torque.
- Note:** *Be sure that the pipes are clean and clear of any debris prior to installation.*
15. Reinstall the upper coolant pipe that was placed aside in step 8.
  16. Reinstall the coolant surge tank that was placed aside in step 7. Tighten to 295 in-lb (33 N-m) of torque.
  17. Reinstall the CAC inlet pipe that was placed aside in step 6.
  18. Reinstall the air cleaner bracket and air cleaner that were placed aside in step 5. Tighten to 44 ft-lb (60 N-m) of torque.
  19. Reinstall the air inlet tube that was placed aside in step 4.
  20. Reinstall coolant that was placed aside in step 3.
  21. Operate the engine, top off engine coolant as required and check for leaks.
  22. Lower the cab.
  23. Replacement is complete.

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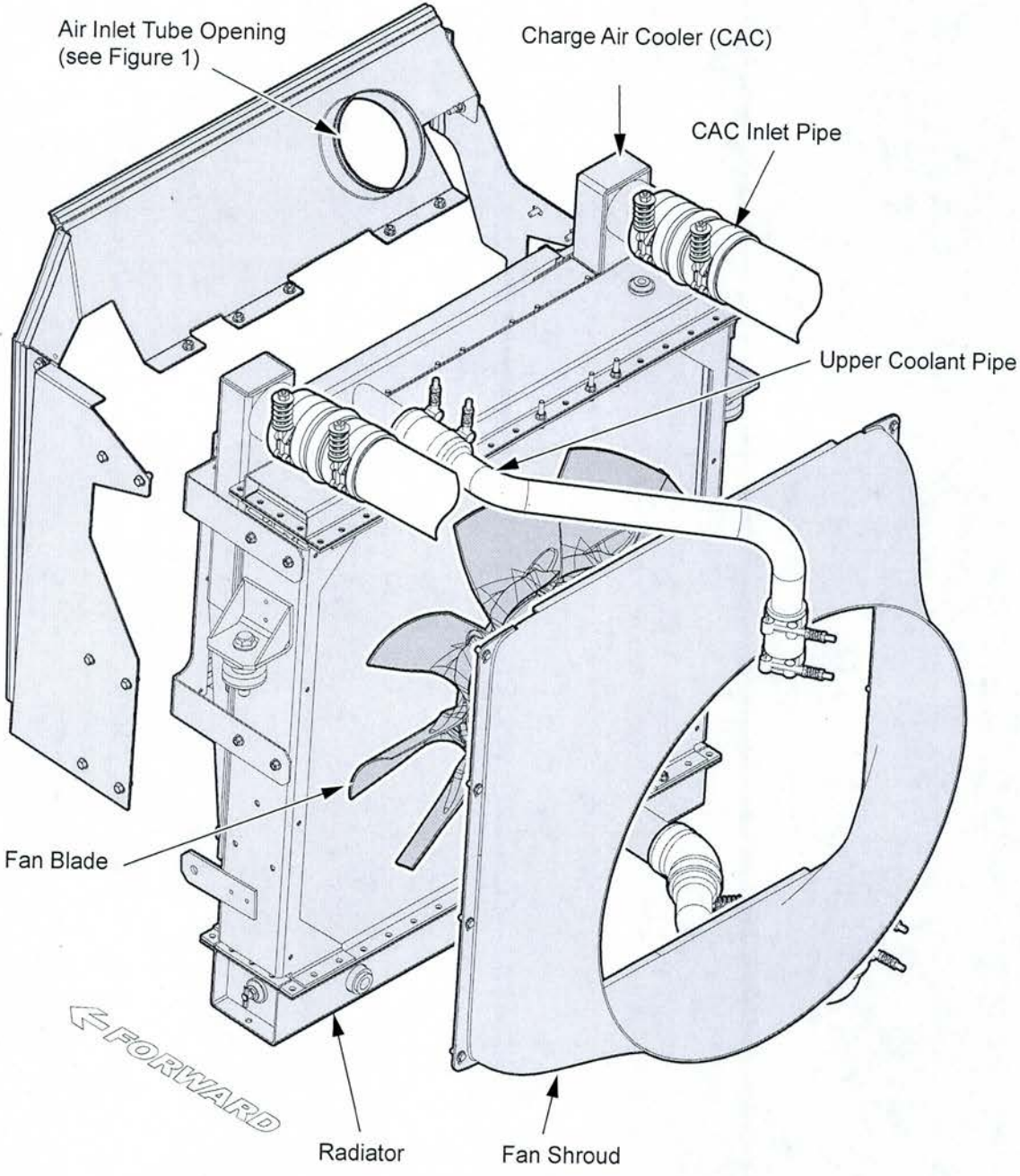
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**Figure 1**

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**Figure 2**

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516H6G5D4CH214110	516H4G924DH215340	516G4G923DH215454
516H6G5D6CH214111	516H4G926DH215341	516G4G925DH215455
516H6G9B3CH214396	516H4G928DH215342	516G4G927DH215456
516H6G9B5CH214397	516H6G5DXDH215344	516G4G929DH215457
516H4G9BXCCH214398	516H4G929DH215348	516G4G920DH215458
516H4G9B1CH214399	516G4G923DH215423	516G4G922DH215459
516H4G9B4CH214400	516G4G925DH215424	516G4G929DH215460
516H4G9B6CH214401	516G4G927DH215425	516G4G929DH215461
516H4G9B8CH214402	516G4G929DH215426	516G4G922DH215462
516H4G9B9CH214697	516G4G920DH215427	516H4G922DH215529
516H4G9B0CH214698	516G4G922DH215428	516H4G929DH215530
516H4G9B8CH214867	516G4G924DH215429	516H6G5D6DH215549
516H4G9BXCCH214868	516G4G920DH215430	516H6G5D2DH215550
516H4G9B1CH214869	516G4G922DH215431	516H4G929DH215561
516H4G9B8CH214870	516G4G924DH215432	516H4G920DH215562
516H4G9BXCCH214871	516G4G926DH215433	516H4G922DH215563
516H4G9B1CH214872	516G4G928DH215434	516G4G925DH215584
516H4G928DH214983	516G4G92XDH215435	516G4G927DH215585
516H4G92XDH214984	516G4G921DH215436	516G4G929DH215586
516H6G5DXDH214985	516G4G923DH215437	516H4G923DH215782
516H6G5D1DH214986	516G4G925DH215438	516H4G925DH215783
516H6G5D3DH214987	516G4G927DH215439	516H4G928DH215910
516H6G5D5DH214988	516G4G923DH215440	
516H6G5D7DH214989	516G4G925DH215441	
516H6G5D3DH214990	516G4G927DH215442	
516H6G5D5DH214991	516G4G929DH215443	
516H6G5D7DH214992	516G4G920DH215444	
516H6G5D9DH214993	516G4G922DH215445	
516H6G5D0DH214994	516G4G924DH215446	
516H6G9B3CH215001	516G4G926DH215447	
516H6G9B5CH215002	516G4G928DH215448	
516H6G9B7CH215003	516G4G92XDH215449	
516H4G924DH215046	516G4G926DH215450	
516H4G925CH215068	516G4G928DH215451	
516H4G926DH215338	516G4G92XDH215452	
516H4G928DH215339	516G4G921DH215453	