

**21F**  
**121F**  
**221F**  
**321F**  
**Tier4**  
Compact Wheel Loader

**SERVICE MANUAL**

Part number 47768535B

English

April 2015

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**CASE**  
CONSTRUCTION



## **SERVICE MANUAL**

**121F XT , 121F ZB , 21F XT , 21F ZB , 221F HS , 221F STD , 321F HS , 321F STD**

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## INTRODUCTION

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## **Basic instructions - Important notice regarding equipment servicing**

All repair and maintenance work listed in this manual must be carried out only by qualified dealership personnel, strictly complying with the instructions given, and using, whenever possible, the special tools.

Anyone who performs repair and maintenance operations without complying with the procedures provided herein shall be responsible for any subsequent damages.

The manufacturer and all the organizations of its distribution chain, including - without limitation - national, regional, or local dealers, reject any responsibility for damages caused by parts and/or components not approved by the manufacturer, including those used for the servicing or repair of the product manufactured or marketed by the manufacturer. In any case, no warranty is given or attributed on the product manufactured or marketed by the manufacturer in case of damages caused by parts and/or components not approved by the manufacturer.

The information in this manual is up-to-date at the date of the publication. It is the policy of the manufacturer for continuous improvement. Some information could not be updated due to modifications of a technical or commercial type, or changes to the laws and regulations of different countries.

In case of questions, refer to your CASE CONSTRUCTION Sales and Service Networks.

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## Basic instructions - Shop and assembly

### Shimming

For each adjustment operation, select adjusting shims and measure the adjusting shims individually using a micrometer, then add up the recorded values. Do not rely on measuring the entire shimming set, which may be incorrect, or the rated value shown on each shim.

### Rotating shaft seals

For correct rotating shaft seal installation, proceed as follows:

1. Before assembly, allow the seal to soak in the oil it will be sealing for at least thirty minutes.
2. Thoroughly clean the shaft and check that the working surface on the shaft is not damaged.
3. Position the sealing lip facing the fluid.

**NOTE:** *With hydrodynamic lips, take into consideration the shaft rotation direction and position the grooves so that they will move the fluid towards the inner side of the seal.*

4. Coat the sealing lip with a thin layer of lubricant (use oil rather than grease). Fill the gap between the sealing lip and the dust lip on double lip seals with grease.
5. Insert the seal in its seat and press down using a flat punch or seal installation tool. Do not tap the seal with a hammer or mallet.
6. While you insert the seal, check that the seal is perpendicular to the seat. When the seal settles, make sure that the seal makes contact with the thrust element, if required.
7. To prevent damage to the seal lip on the shaft, position a protective guard during installation operations.

### O-ring seals

Lubricate the O-ring seals before you insert them in the seats. This will prevent the O-ring seals from overturning and twisting, which would jeopardize sealing efficiency.

### Sealing compounds

Apply a sealing compound on the mating surfaces when specified by the procedure. Before you apply the sealing compound, prepare the surfaces as directed by the product container.

### Spare parts

Only use CNH Original Parts or CASE CONSTRUCTION Original Parts.

Only genuine spare parts guarantee the same quality, duration, and safety as original parts, as they are the same parts that are assembled during standard production. Only CNH Original Parts or CASE CONSTRUCTION Original Parts can offer this guarantee.

When ordering spare parts, always provide the following information:

- Machine model (commercial name) and Product Identification Number (PIN)
- Part number of the ordered part, which can be found in the parts catalog

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## Protecting the electronic and/or electrical systems during charging and welding

To avoid damage to the electronic and/or electrical systems, always observe the following practices:

1. Never make or break any of the charging circuit connections when the engine is running, including the battery connections.
2. Never short any of the charging components to ground.
3. Always disconnect the ground cable from the battery before arc welding on the machine or on any machine attachment.
  - Position the welder ground clamp as close to the welding area as possible.
  - If you weld in close proximity to a computer module, then you should remove the module from the machine.
  - Never allow welding cables to lie on, near, or across any electrical wiring or electronic component while you weld.
4. Always disconnect the negative cable from the battery when charging the battery in the machine with a battery charger.

**NOTICE:** *If you must weld on the unit, you must disconnect the battery ground cable from the machine battery. The electronic monitoring system and charging system will be damaged if this is not done.*

5. Remove the battery ground cable. Reconnect the cable when you complete welding.

## Special tools

### WARNING

**Battery acid causes burns. Batteries contain sulfuric acid.**

**Avoid contact with skin, eyes or clothing. Antidote (external): Flush with water. Antidote (eyes): flush with water for 15 minutes and seek medical attention immediately. Antidote (internal): Drink large quantities of water or milk. Do not induce vomiting. Seek medical attention immediately.**

**Failure to comply could result in death or serious injury.**

W0111A

The special tools that CASE CONSTRUCTION suggests and illustrate in this manual have been specifically researched and designed for use with CASE CONSTRUCTION machines. The special tools are essential for reliable repair operations. The special tools are accurately built and rigorously tested to offer efficient and long-lasting operation.

By using these tools, repair personnel will benefit from:

- Operating in optimal technical conditions
- Obtaining the best results
- Saving time and effort
- Working in safe conditions

---

## Safety rules

### Personal safety



This is the safety alert symbol. It is used to alert you to potential personal injury hazards. Obey all safety messages that follow this symbol to avoid possible death or injury.

Throughout this manual you will find the signal words DANGER, WARNING, and CAUTION followed by special instructions. These precautions are intended for the personal safety of you and those working with you.

Read and understand all the safety messages in this manual before you operate or service the machine.

 **DANGER** indicates a hazardous situation which, if not avoided, will result in death or serious injury.

 **WARNING** indicates a hazardous situation which, if not avoided, could result in death or serious injury.

 **CAUTION**, used with the safety alert symbol, indicates a hazardous situation which, if not avoided, could result in minor or moderate injury.

### **FAILURE TO FOLLOW DANGER, WARNING, AND CAUTION MESSAGES COULD RESULT IN DEATH OR SERIOUS INJURY.**

### Machine safety

**NOTICE:** Notice indicates a situation which, if not avoided, could result in machine or property damage.

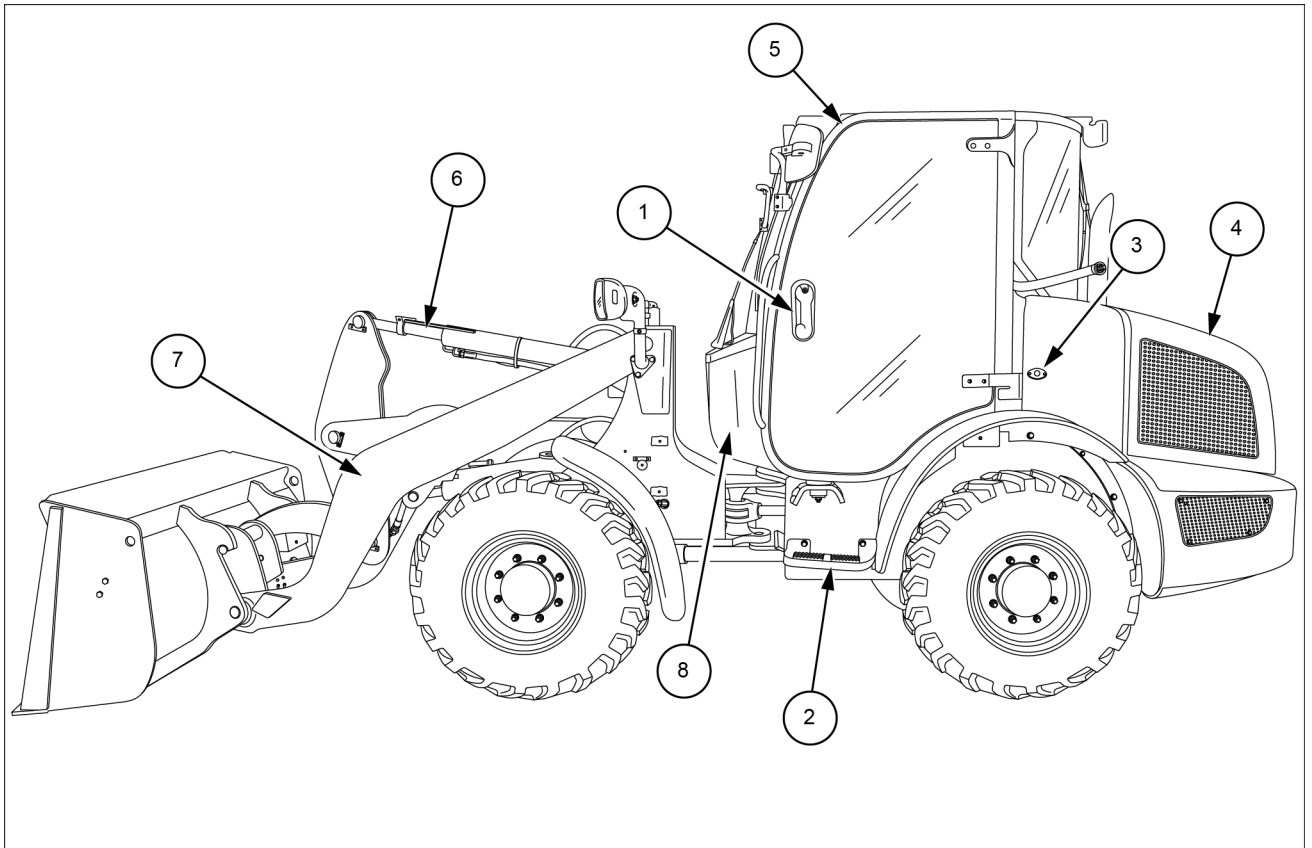
Throughout this manual you will find the signal word Notice followed by special instructions to prevent machine or property damage. The word Notice is used to address practices not related to personal safety.

### Information

**NOTE:** Note indicates additional information which clarifies steps, procedures, or other information in this manual.

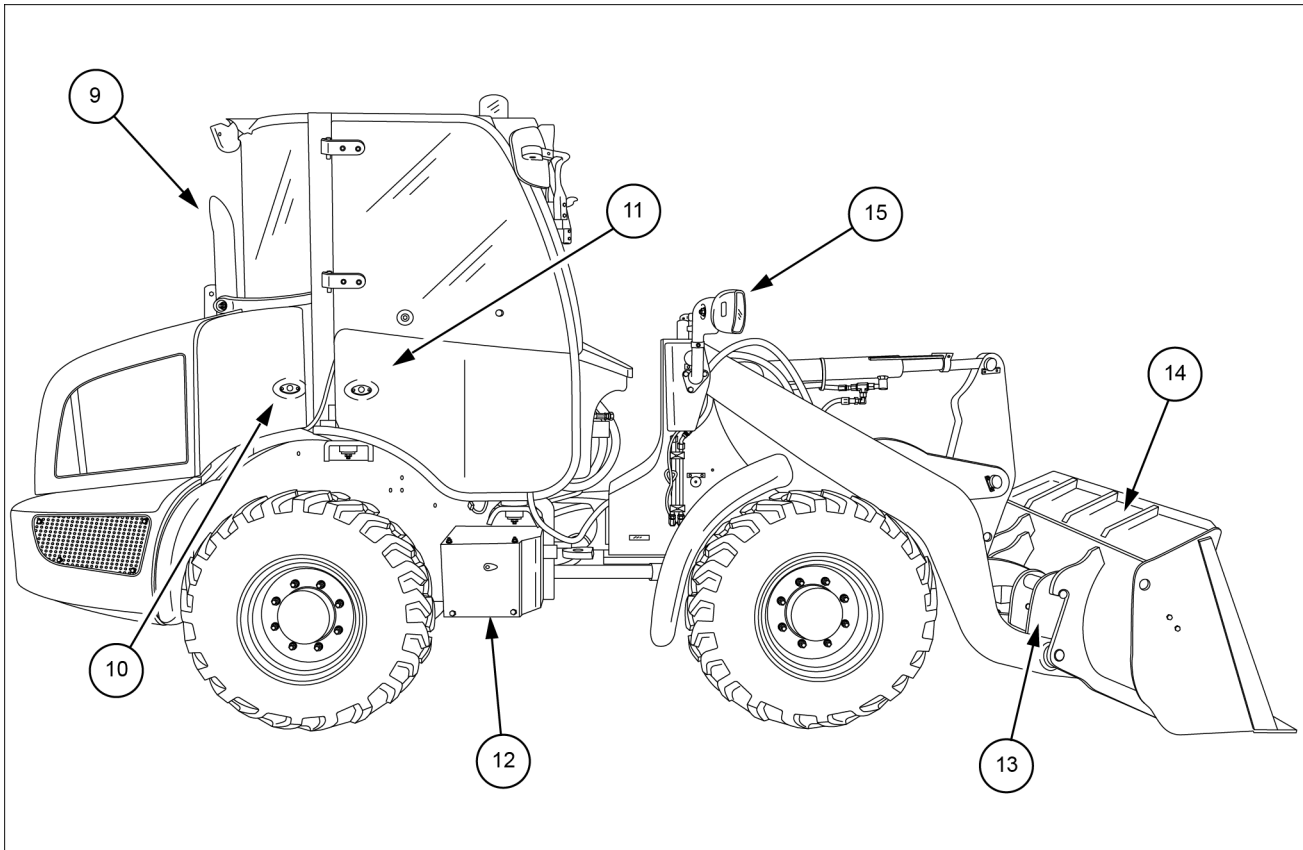
Throughout this manual you will find the word Note followed by additional information about a step, procedure, or other information in the manual. The word Note is not intended to address personal safety or property damage.

## Product identification - Machine components



LEIL14CWL0054FB 1

- |                            |                                                                                              |
|----------------------------|----------------------------------------------------------------------------------------------|
| 1. Cab door and hand holds | 5. Roll Over Protection Structure (ROPS) and Falling Objects Protective Structure (FOPS) cab |
| 2. Steps                   | 6. Boom cylinder                                                                             |
| 3. Fuel tank access)       | 7. Loader lift arms                                                                          |
| 4. Engine hood             | 8. Cab air filter access                                                                     |



LEIL14CWL0055FB 2

- 9. Muffler
- 10. Hydraulic oil tank access
- 11. Fuse access door
- 12. Battery access

- 13. Quick Coupler (Volvo compatible version)
- 14. Bucket (Z-bar version)
- 15. Driving lights



# **SERVICE MANUAL**

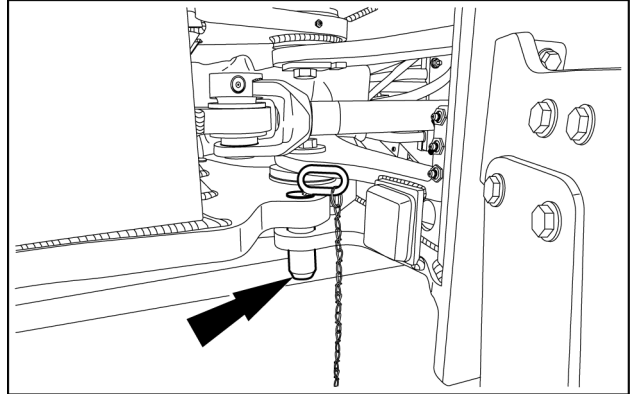
## **Engine**

**121F XT , 121F ZB , 21F XT , 21F ZB , 221F HS , 221F STD , 321F HS , 321F STD**

## Engine - Remove

**NOTE:** Emissions sensors mounted in the exhaust stream are sensitive to extreme vibrations. Use of tools that generate extreme vibrations, such as impact wrenches and hammers, will result in damage to emission sensors. Avoid using these tools during any service procedure in close proximity of emission sensors. If the use of these tools cannot be avoided, remove the sensors using extreme caution prior to performing any service procedure.

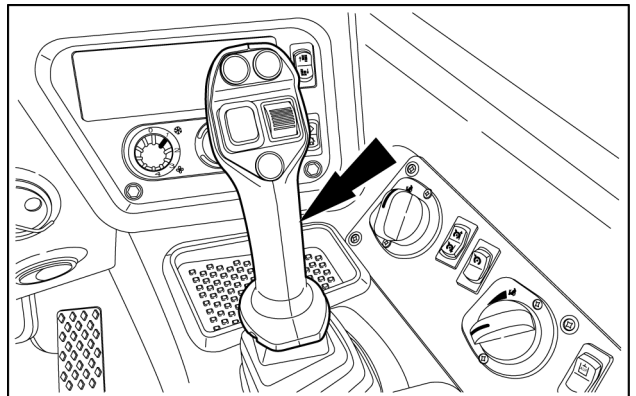
1. Park the machine on firm, level ground, lower the bucket/attachment to the ground.  
Drive the machine into such a position that the bores of the holders are aligned one above the other. Then secure with the pin (arrow). The pin is located inside the support on the frame.  
Stop the engine.



LEIL14CWL0005AB 1

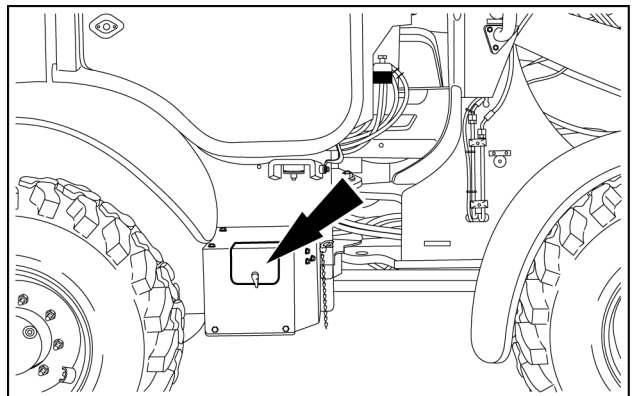
2. Keep all non-authorized personnel clear of the machine. Turn the ignition switch key to the "ON" position.
3. Move the joystick slowly forward and backward and from the right-hand to the left-hand approximately a dozen times. Turn the ignition key to the OFF position. Pump brakes approximately 30 times to bleed accumulators. Bleed ride control accumulator (if equipped) with bleed screw.

**NOTE:** before carrying out any service work on the hydraulic system, it is necessary to allow the system to cool: the temperature should not be more than **40 °C (104.0 °F)**.



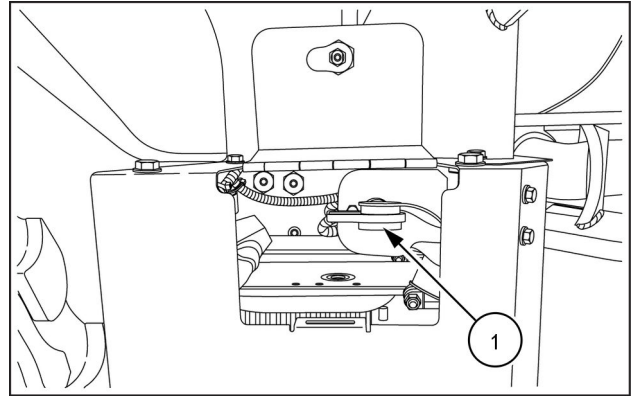
LEIL14CWL0003AB 2

4. Open the outer panel to access the battery main switch. The battery main switch box is located on the right-hand side of the machine, below the operator's compartment.



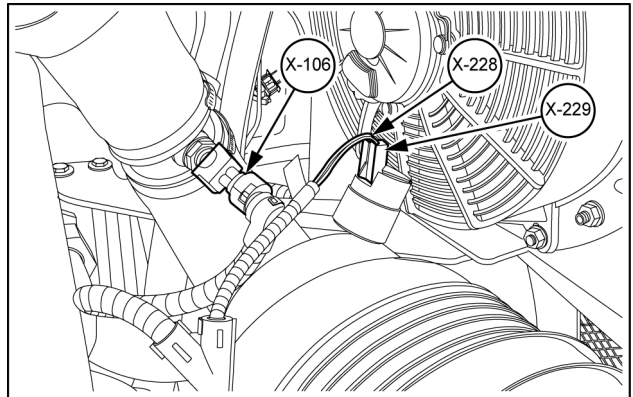
LEIL14CWL0015AB 3

5. Put the battery main switch **(1)** in the OFF position.



LEIL14CWL0017AA 4

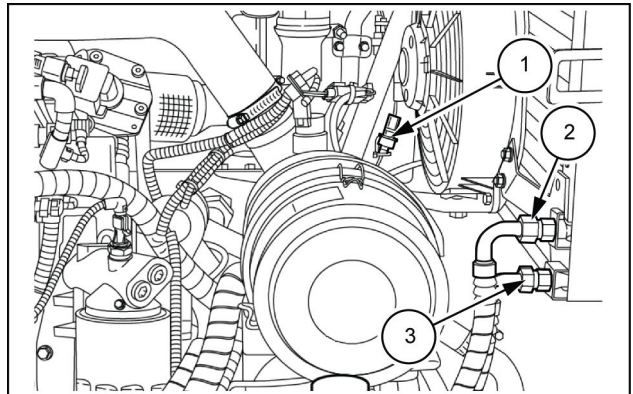
6. Disconnect the wiring harness (X-228) and (X-229) from the engine air filter.  
Disconnect the wiring harness (X-106) from the air temperature sensor.



LEIL14CWL0171AB 5

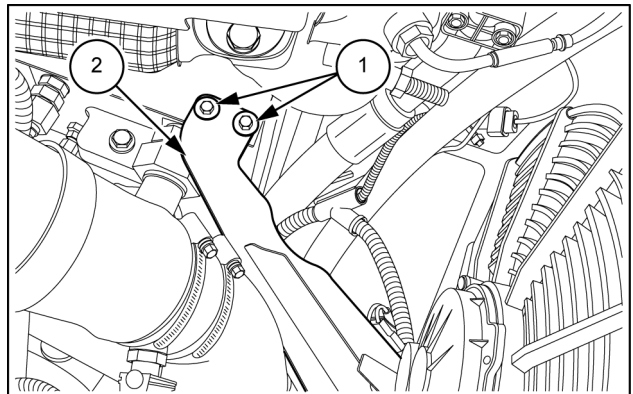
### Versions with air conditioning

1. Drain the air conditioning system and disconnect the fan electrical connector **(1)**.  
Tag and disconnect the condenser hoses **(2)** and **(3)**.



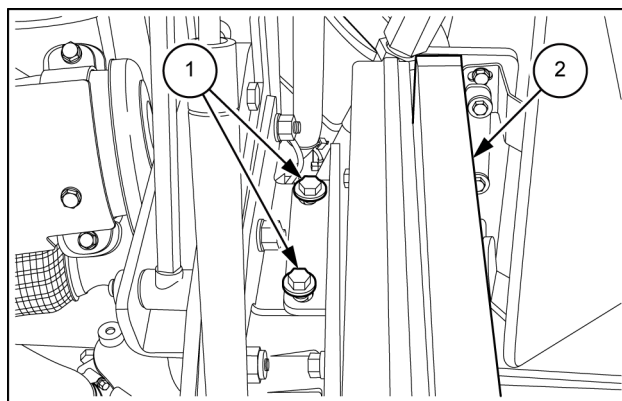
LEIL14CWL0159A 6

2. Remove the two lower bolts **(1)** of the condenser bracket **(2)**.



LEIL14CWL0160AB 7

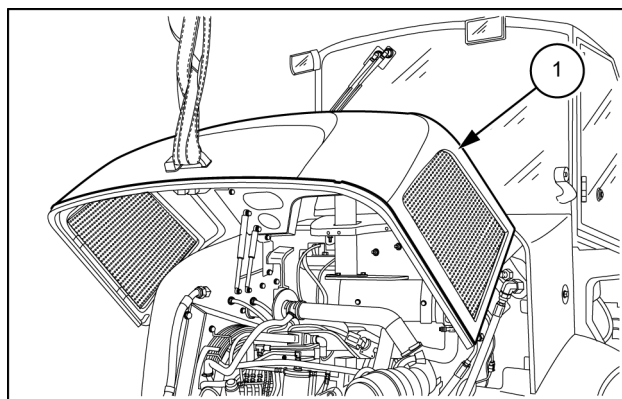
3. Remove the two upper bolts (1) of the condenser. Remove the condenser (2).



LEIL14CWL0161AB 8

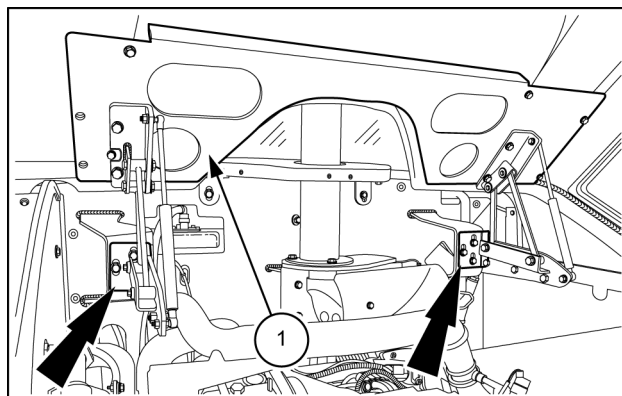
### All versions

1. Secure the engine hood (1) with the nylon lifting strap.



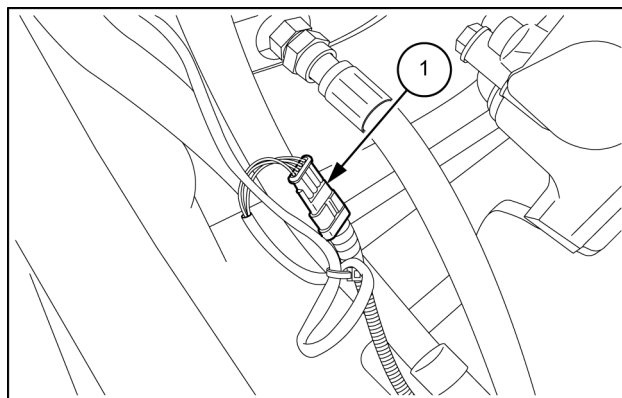
LEIL14CWL0216AB 9

2. Have another person to balance the hood and remove the hood hinge mounting bolts (arrows) from the machine structure. Carefully raise and remove the engine hood (1) from loader. Lower the engine hood onto suitable platform and disconnect lifting equipment.



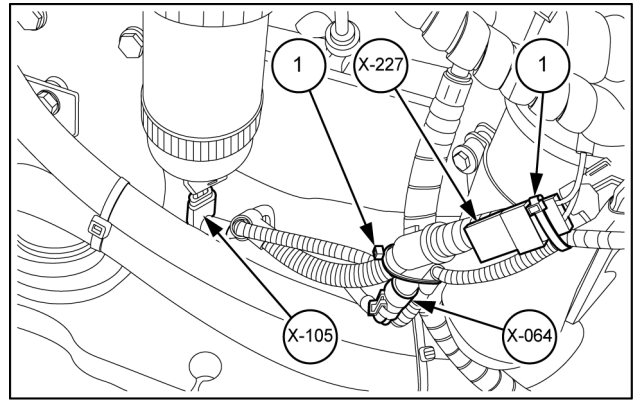
LEIL14CWL0162AB 10

3. Tag and disconnect the left rear light connector (1). Repeat this operation for the right rear light connector.



LEIL14CWL0163AB 11

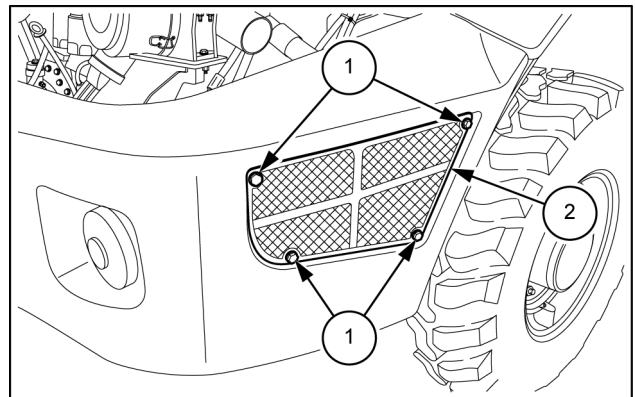
4. Tag and disconnect the water in fuel wiring harness (X-105).  
Tag and disconnect the backup alarm wiring harness (X-064).  
Tag and disconnect the filter pressure switch wiring harness (X-227). Cut the ties cable (1).



LEIL14CWL0173AB 12

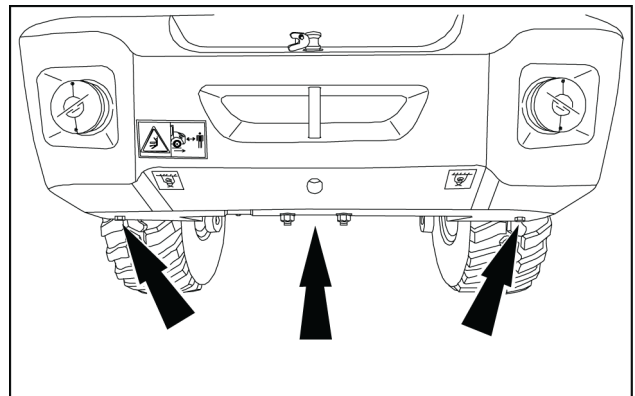
5. Remove the four mounting bolts (1) of the right grid (2).  
Remove the right grid (2).

**NOTE:** repeat the same operation on the left side.



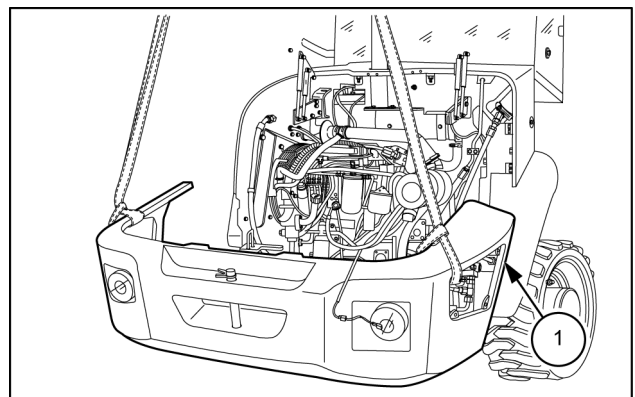
LEIL14CWL0217AB 13

6. Connect suitable lifting equipment to counterweight (refer to Counterweight – Remove).  
Remove the six bolts (arrows) of the counterweight and remove it.



LEIL14CWL0164AB 14

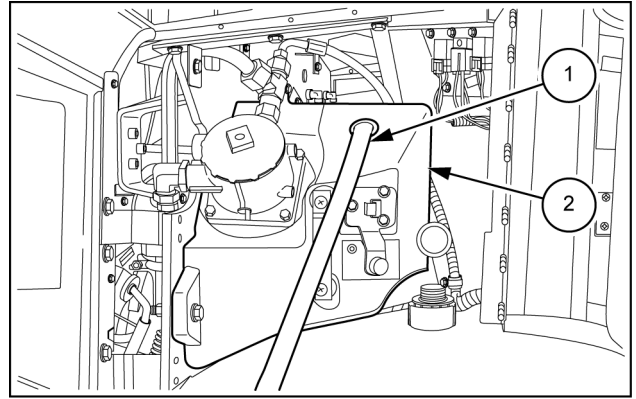
7. Slowly extract the counterweight (1) from rear chassis.  
Be sure all wire harness connections have been disconnected.  
Remove the counterweight (1) from the machine.  
Lower the counterweight onto suitable platform and disconnect the lifting equipment.



LEIL14CWL0218AB 15

8. Remove the cap from the hydraulic tank (2).  
Insert, into the hole, the hose (1) connected to a suction pump and suck the oil from the tank (2).

**NOTE:** use a suitable container for collection of coolant and abide by all local environmental laws for proper handling and disposal.

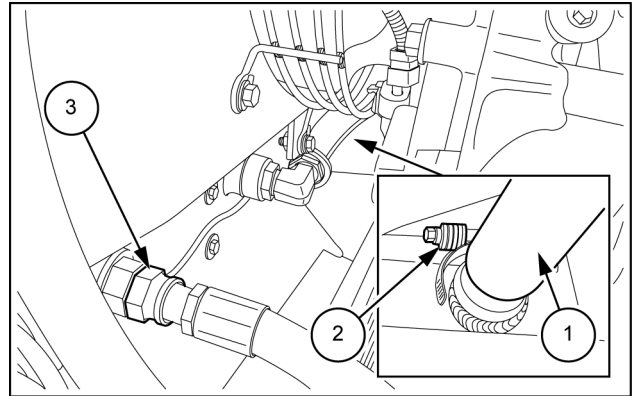


LEIL14CWL0219AB 16

9. Loosen the clamp (2) on the coolant hose (1) and disconnect it from the radiator.

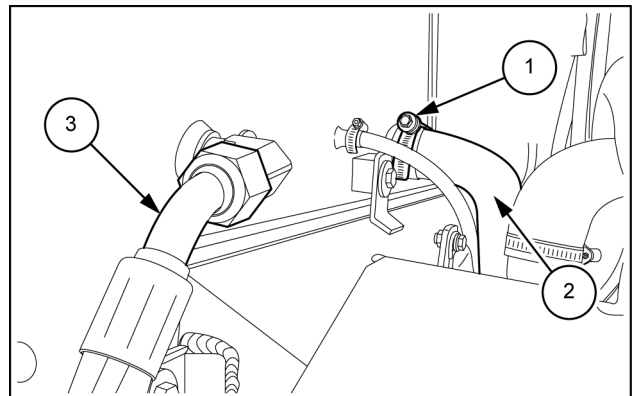
**NOTE:** use a suitable container for collection of coolant and abide by all local environmental laws for proper handling and disposal.

10. Unscrew the fitting and disconnect the hydraulic oil hose (3) from the radiator.



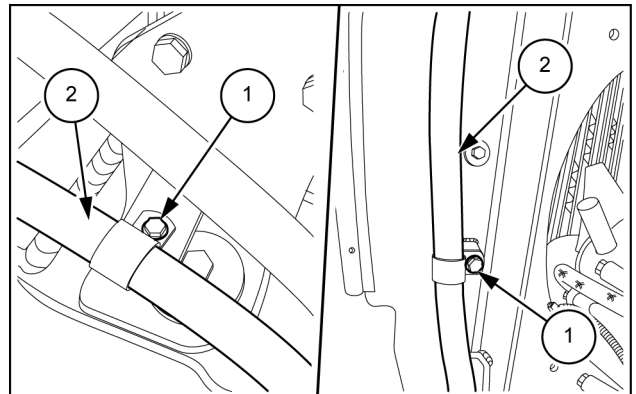
LEIL14CWL0232AB 17

11. Loosen the clamp (1) and disconnect the coolant hose (2) from the radiator.  
Unscrew the fitting and disconnect the hydraulic oil hose (3) from the radiator.



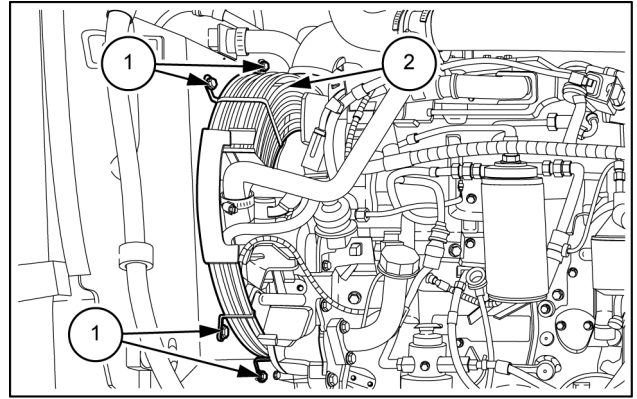
LEIL14CWL0233AB 18

12. Remove the screws (1) securing the clamps of the hydraulic oil hose (2).



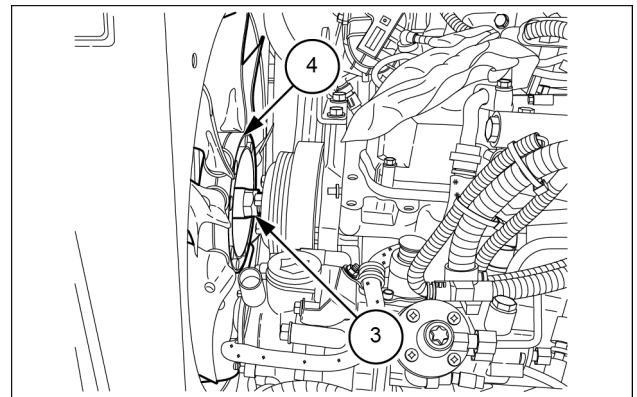
LEIL14CWL0234AB 19

13. Remove the four screws **(1)** to remove the fan guard **(2)**.



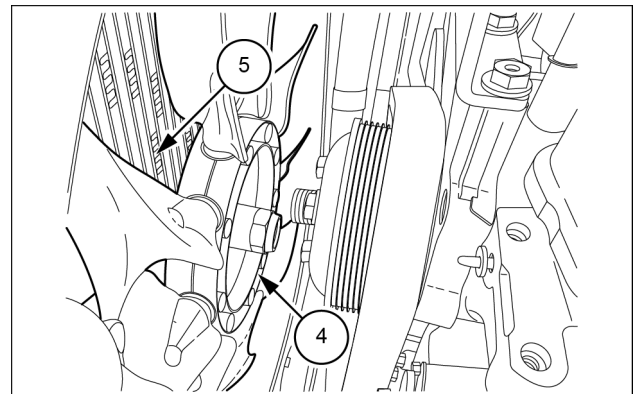
LEIL14CWL0469AB 20

14. Loosen the nut **(3)** to unscrew the fan **(4)**.  
The nut **(3)** is left-handed: turn the nut **(3)** clockwise in respect to the engine to loosen the nut **(3)**.



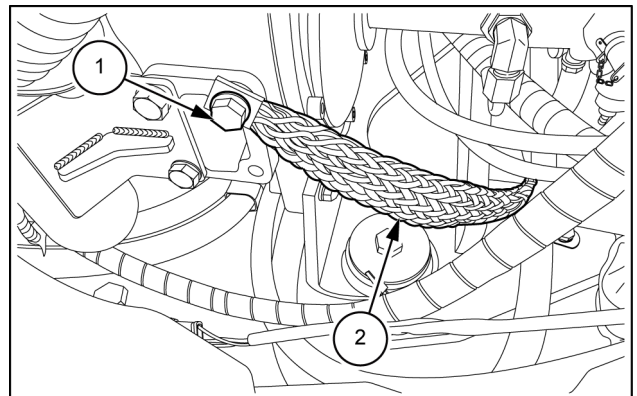
LEIL14CWL0456AB 21

15. Lean the fan **(4)** against the radiator group **(5)**.



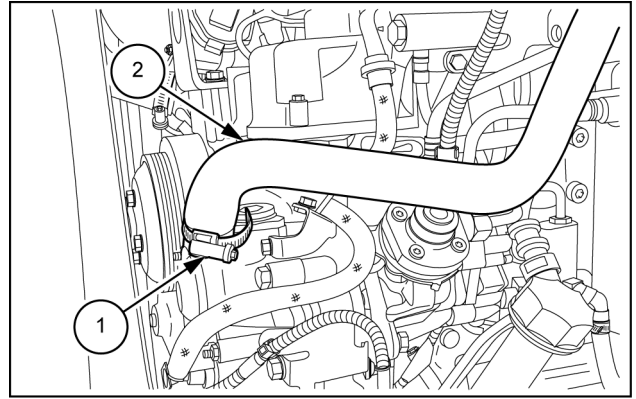
LEIL14CWL0457AB 22

16. Remove the screw **(1)** and disconnect the earth strap **(2)** from the engine.



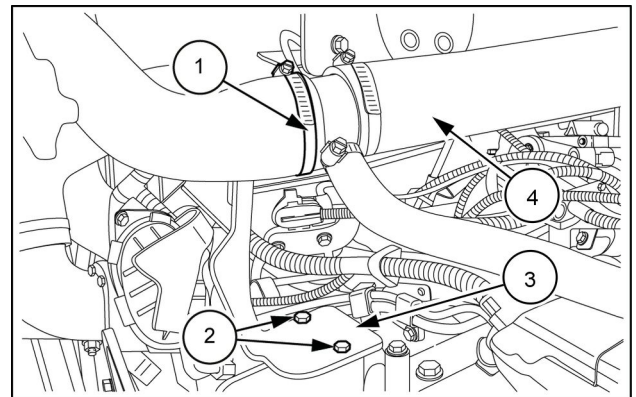
LEIL14CWL0170AB 23

17. Loosen the clamp **(1)** and disconnect the oil steam recovery hose **(2)**.



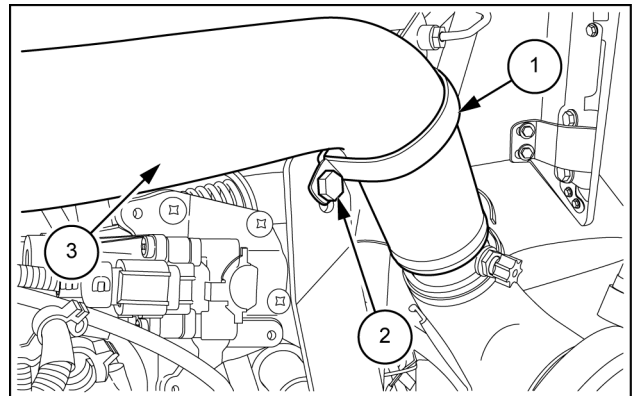
LEIL14CWL0220AB 24

18. Loosen the clamp **(1)** and disconnect the air inlet hose **(4)**.  
Remove the screws **(2)** from the bracket **(3)**.



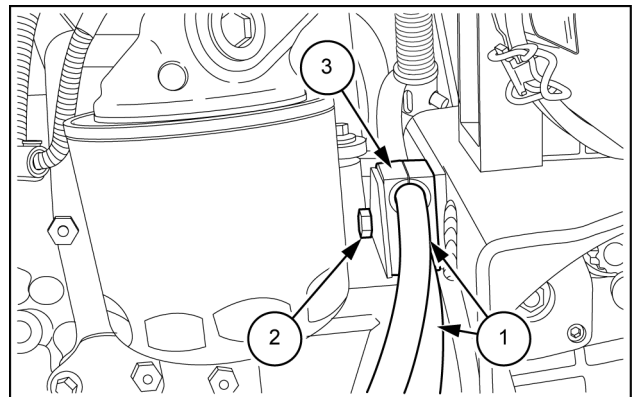
LEIL14CWL0221AB 25

19. Remove the screw **(2)** to release the air inlet hose **(3)** from the clamp **(1)**.



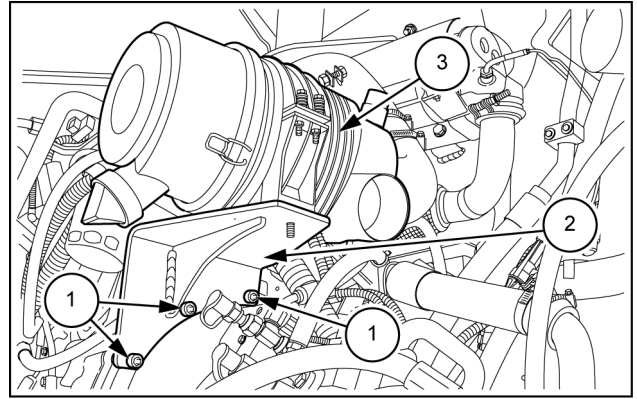
LEIL14CWL0222AB 26

20. Remove the screw **(2)** of the half guideway **(3)** for positioning fuel hoses **(1)**.



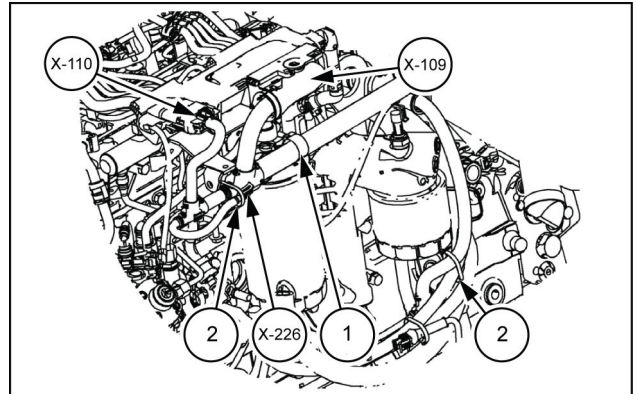
LEIL14CWL0223AB 27

21. Remove the screws **(1)** of the air filter bracket **(2)**.  
Remove the air filter assembly **(3)** with the air inlet hose, the oil vapor recovery pipe and bracket with O-ring.



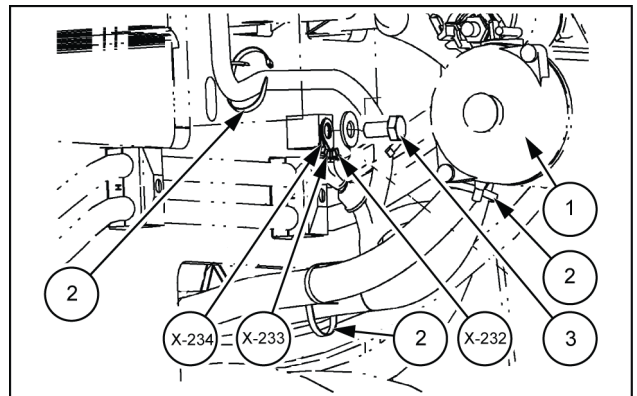
LEIL14CWL0224AB 28

22. Disconnect the wiring harness (X-109) from the intermediate connector signal.  
Disconnect the wiring harness (X-110) from the intermediate connector injector.  
Disconnect the A/C clutch wiring harness (X-226) (only air conditioning versions).  
Remove the clamp **(1)** and cut the ties cable **(2)**.



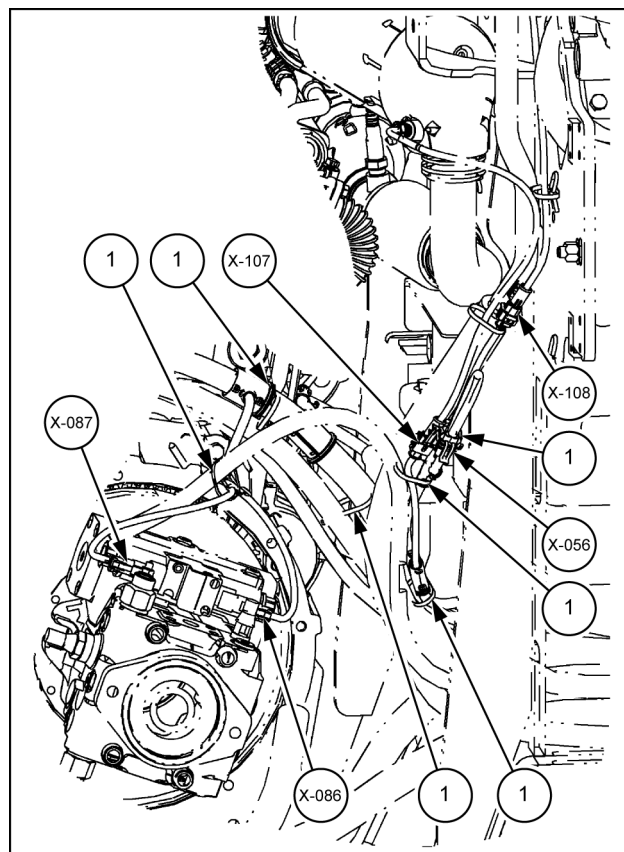
LEIL14CWL0172A 29

23. Behind the starter motor **(1)**, remove the screw **(3)** and disconnect the ground wiring harness (X-232), (X-233) and (X-234).  
Remove the ties cable **(2)**.



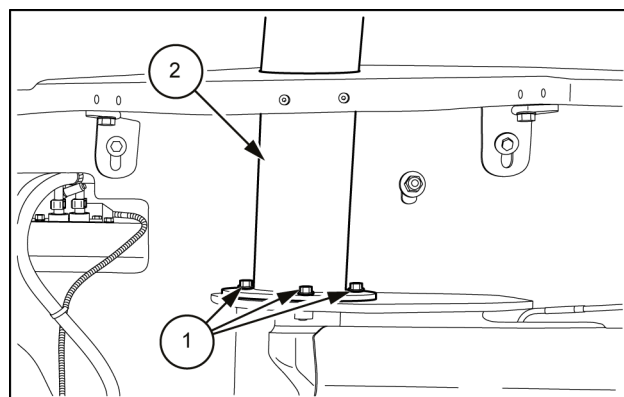
LEIL14CWL0174AB 30

24. Fan condenser connector (X-056) has already been disconnected when removing the condenser (only air conditioning versions).  
Disconnect reverse solenoid wiring harness (X-086).  
Disconnect the forward solenoid wiring harness (X-087).  
Disconnect the exhaust gas temperature sensor wiring harness (X-107) and (X-108).  
Remove the ties cable (1).



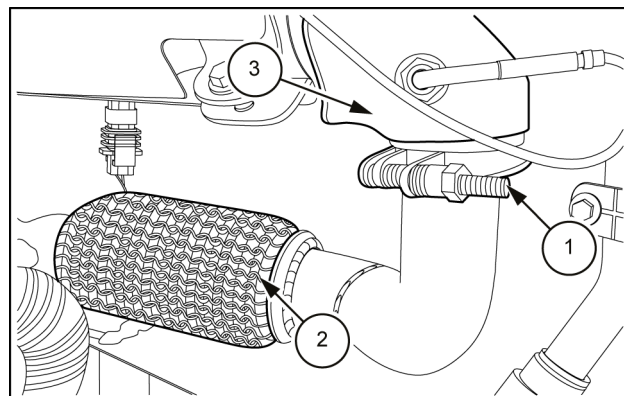
LEIL14CWL0175BB 31

25. Remove the screws (1) securing the exhaust stack (2).  
**NOTE:** the exhaust stack (2) must be removed after the detachment of the PM-Cat system.



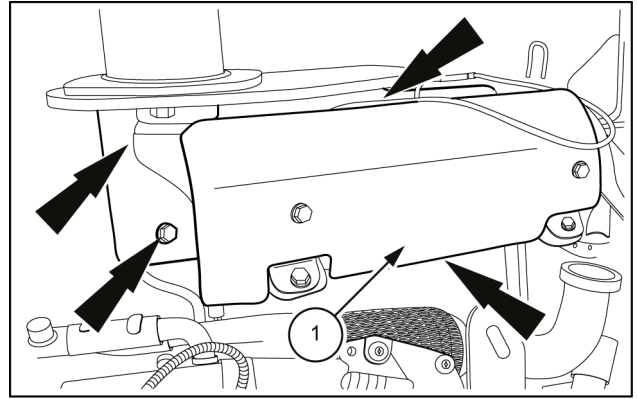
LEIL14CWL0225AB 32

26. Loosen the clamp (1) and disconnect the compensation hose (2) from the PM-Cat system (3).



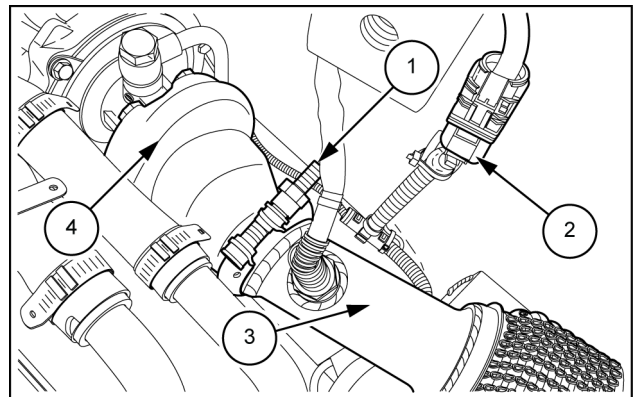
LEIL14CWL0226AB 33

27. Remove the four screws (arrows) securing PM-Cat system (1) of the frame.  
Remove the PM-Cat system (1) from the machine.  
Extract, from the bottom, the exhaust stack.



LEIL14CWL0227AB 34

28. Disconnect the lambda probe connector (2).  
Loosen the clamp (1) and remove the compensation hose (3) from the turbocharger (4).

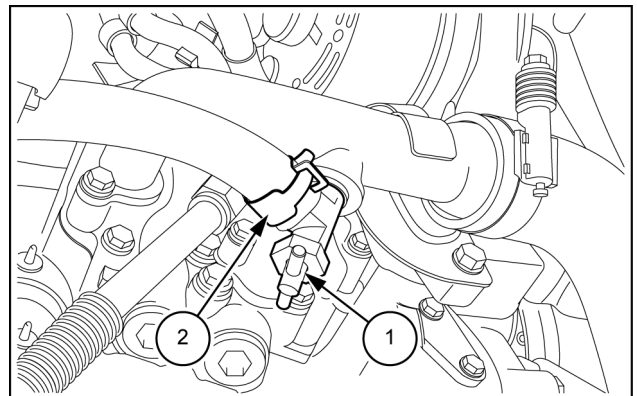


LEIL14CWL0228AB 35

29. Acting from under the machine:

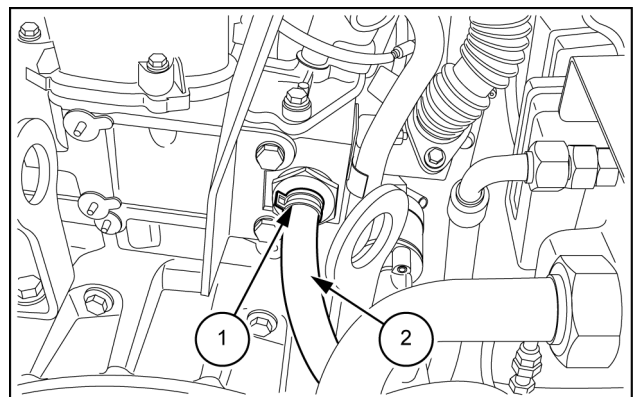
- turn off the tap (1);
- loosen the clamp (2) and disconnect the cab heating hose;
- open the tap (1) to drain the coolant from the engine block.

**NOTE:** use a suitable container for collection of coolant and abide by all local environmental laws for proper handling and disposal.



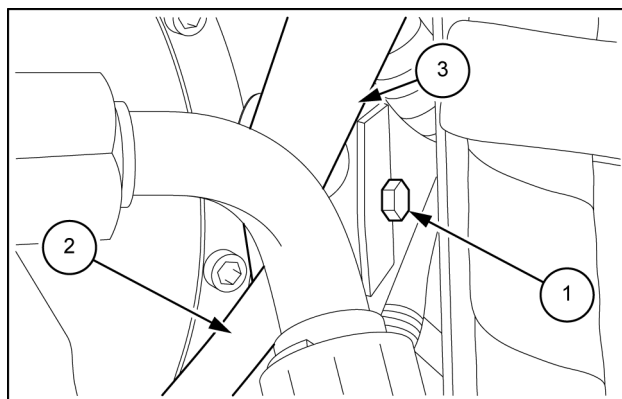
LEIL14CWL0229AB 36

30. From the right side of the machine, loosen the clamp (1) and disconnect the hose cab heating (2).



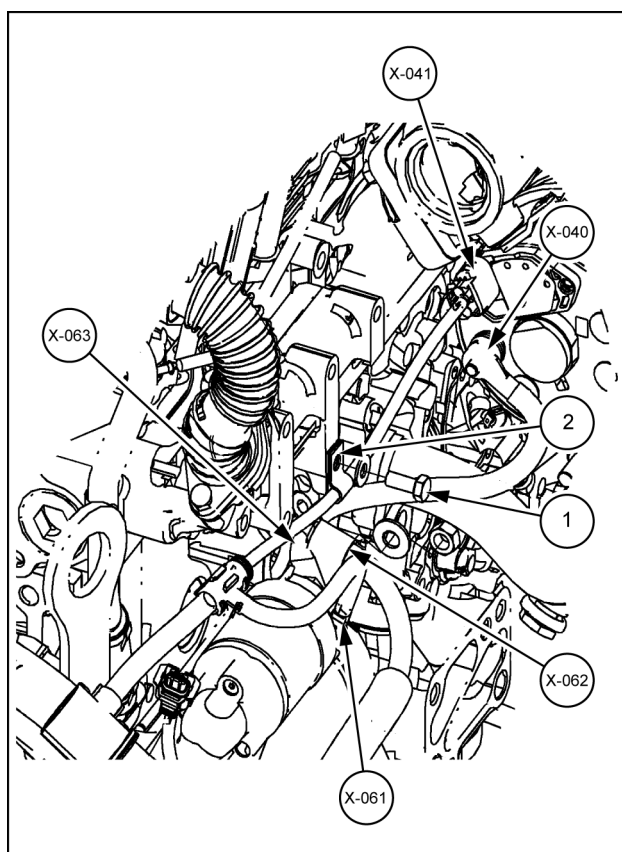
LEIL14CWL0230AB 37

31. Remove the screw **(1)** of the half guideway for positioning reverse hose **(2)** and forward hose **(3)**.



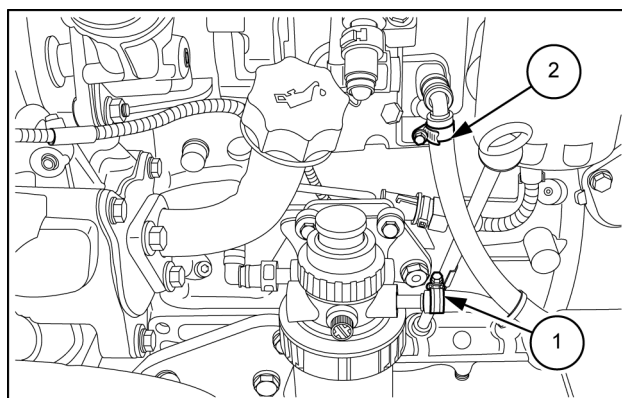
LEIL14CWL0231AB 38

32. Tag and disconnect starter motor (Terminal 50) wiring harness (X-061).  
 Tag and disconnect starter motor wiring harness (X-062) and (X-063).  
 Tag and disconnect alternator battery cable (X-040).  
 Tag and disconnect alternator **(D+)** wiring harness (X-041).  
 Unscrew the bolt **(1)** and remove the clamp **(2)**.  
 Remove eventually clamps and cut the ties cable not indicated.



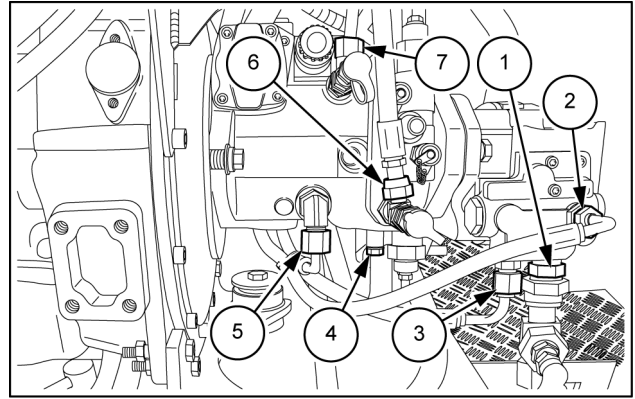
LEIL14CWL0176BB 39

33. Disconnect the fuel line hose **(1)** from the fuel pre-filter and fuel hose **(2)**.



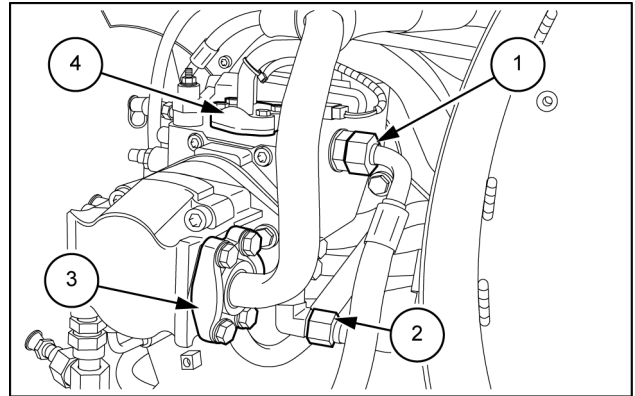
LEIL14CWL0177AB 40

34. Unscrew the hydraulic fitting **(1)**, **(2)** and **(3)** and disconnect the hoses from the gear pump.  
Unscrew the hydraulic fitting **(5)** and **(6)** and disconnect the hoses from the hydrostatic pump.  
Remove the four screws and disconnect the pipe **(4)** from the hydrostatic pump.  
Unscrew the hydraulic fitting **(7)** and disconnect the pipe from the hydrostatic pump.



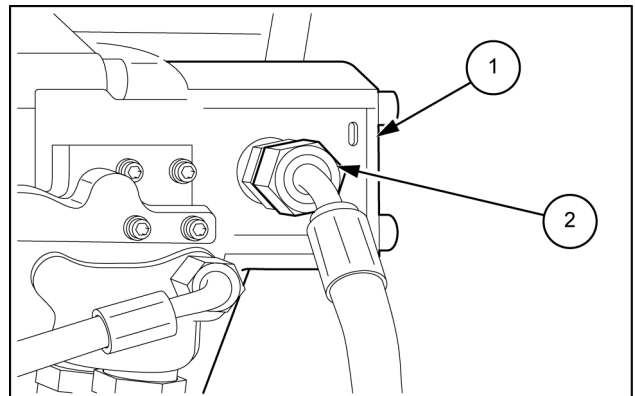
LEIL14CWL0178AB 41

35. Unscrew the hydraulic fitting **(1)** and disconnect the hose from the hydrostatic pump.  
Unscrew the hydraulic fitting **(2)** and disconnect the pipe from the hydrostatic pump.  
Remove the four screws and disconnect the pipe **(4)** from the hydrostatic pump.  
Remove the four screws and disconnect the pipe **(3)** from the gear pump.



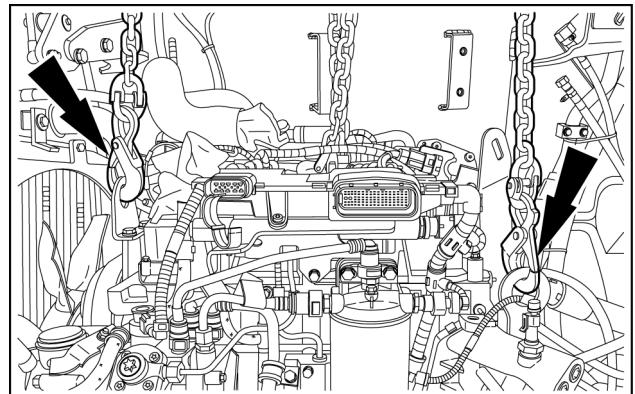
LEIL14CWL0179AB 42

36. For the models equipped with auxiliary pump **(1)**, unscrew the hydraulic fitting **(2)** and disconnect the hose from the auxiliary pump.



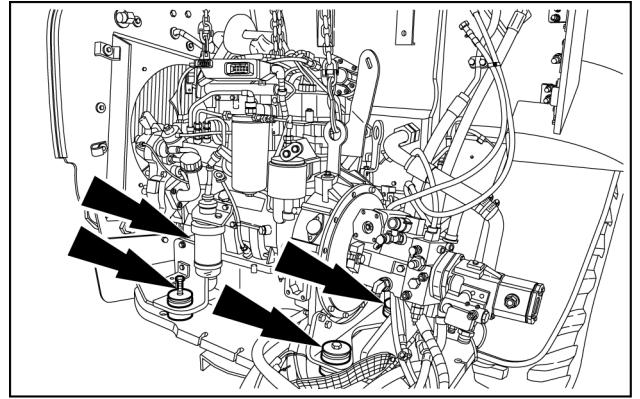
LEIL14CWL0180AB 43

37. Connect suitable lifting equipment to engine lifting brackets (arrows). Take up all slack in lifting equipment.



LEIL14CWL0236AB 44

38. Remove the engine silent block (arrows) unscrewing the nuts from the lower part of the engine. Slowly raise engine from rear chassis. Be sure all wire harness connections and hoses have been disconnected and are clear of the engine. Remove engine from machine.



LEIL14CWL0235AB 45

## Engine - Install

### ⚠ WARNING

**Hot liquid under pressure!**

**Never remove the filler cap or the recovery tank cap while the engine is running or the coolant is hot. Let the system cool. Turn the filler cap to the first notch and allow any pressure to escape, and then remove the filler cap. Loosen the recovery tank cap slowly to allow any pressure to escape.**

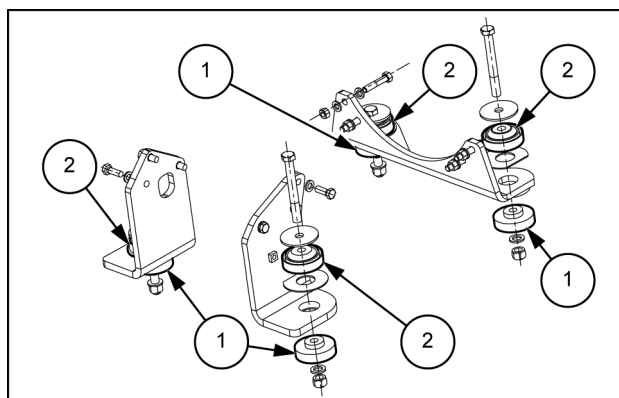
**Failure to comply could result in death or serious injury.**

W0296A

**NOTE:** Emission sensors mounted in the exhaust stream are sensitive to extreme vibrations. Use of tools that generate extreme vibrations, such as impact wrenches and hammers, will result in damage to emission sensors. Avoid using these tools during any service procedure in close proximity of emission sensors. If the use of these tools cannot be avoided, remove the sensors using extreme prior to performing any service procedure.

1. Inspect the engine mounts. If the engine rubber isolators require replacement, remove and discard the isolators (1) and (2). Install new rubber isolator (2), then rubber isolator (1).

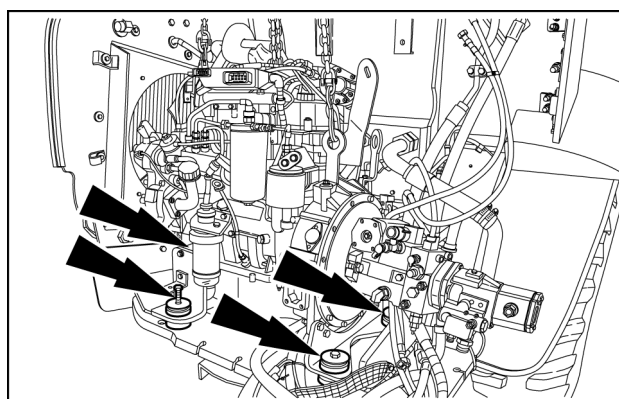
Make sure that the tightening torque of the fixing screws of the brackets to the engine is **118 - 133 N·m (87 - 98 lb ft)**.



LEIL14CWL0393AB 1

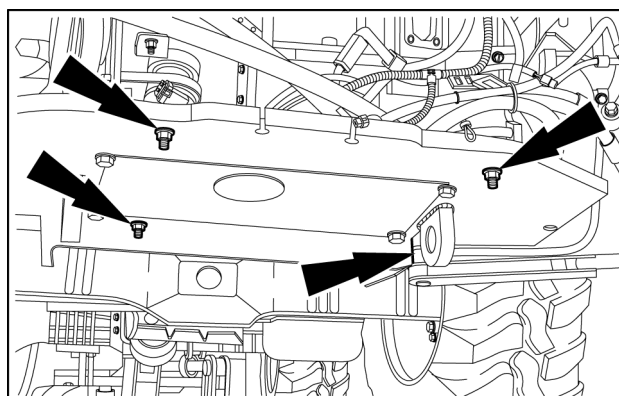
2. Attach suitable lifting device to the engine and slowly move it into position over the rear chassis. Be sure all harness connections and hoses are out of the way or positioned correctly for reconnecting, before lowering engine.

Install the silent blocks (arrows) on the engine.



LEIL14CWL0235AB 2

3. Tighten the mounting bolts of the engine to a torque of **244 - 298 N·m (180 - 220 lb ft)**.



LEIL14CWL0394AB 3



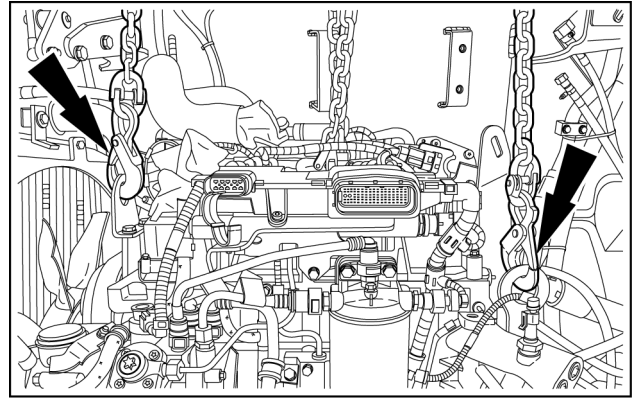
**Suggest:**

**If the above button click is invalid.**

**Please download this document first, and then click the above link to download the complete manual.**

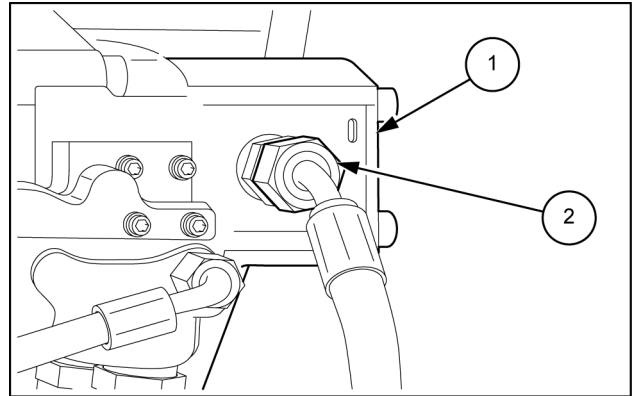
**Thank you so much for reading**

4. Disconnect lifting equipment from the engine lifting brackets.



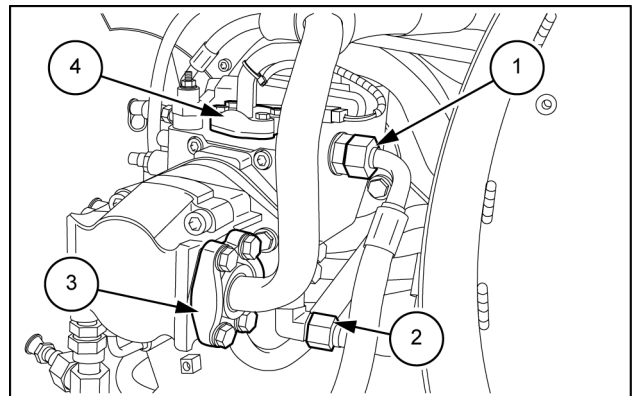
LEIL14CWL0236AB 4

5. For the models equipped with auxiliary pump (1), connect the hydraulic hose to the auxiliary pump and tighten the fitting (2).



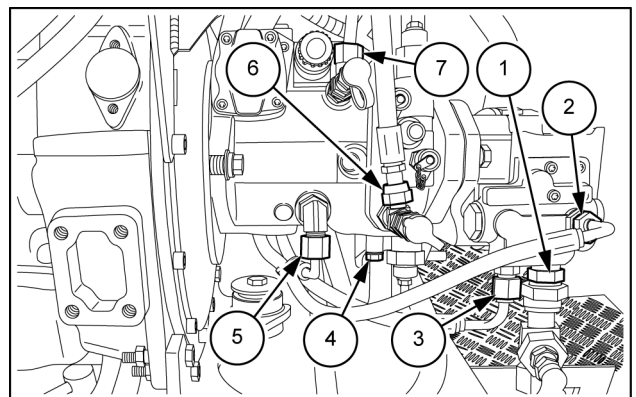
LEIL14CWL0180AB 5

6. Connect the hydraulic pipe (3) to the gear pump and tighten the four screws on the half-shells. Connect the hydraulic pipe (4) to the hydrostatic pump and tighten the four screws on the half-shells. Connect the hydraulic hoses to the hydrostatic pump and tighten the fittings (1) and (2).



LEIL14CWL0179AB 6

7. Connect the hydraulic hoses to the gear pump and tighten the fittings (1), (2) and (3). Connect the hydraulic hoses to the hydrostatic pump and tighten the fittings (5) and (6). Connect the hydraulic pipe (4) to the hydrostatic pump and tighten the four screws of the half-shells. Connect the hydraulic pipe to the hydrostatic pump and tighten the fitting (7).



LEIL14CWL0178AB 7

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