3 - CONTROLS/INSTRUMENTS

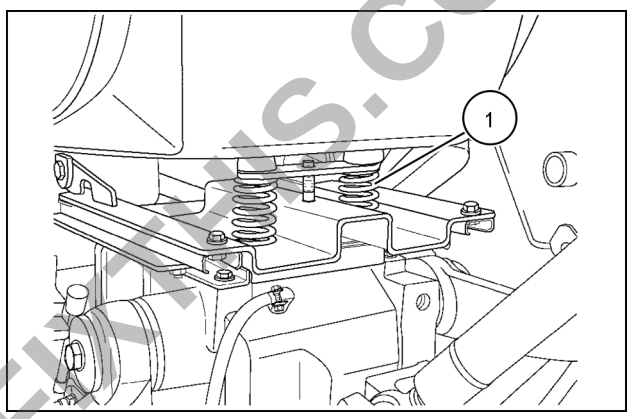
OPERATOR'S SEAT

Operator's seat

Seat adjustment

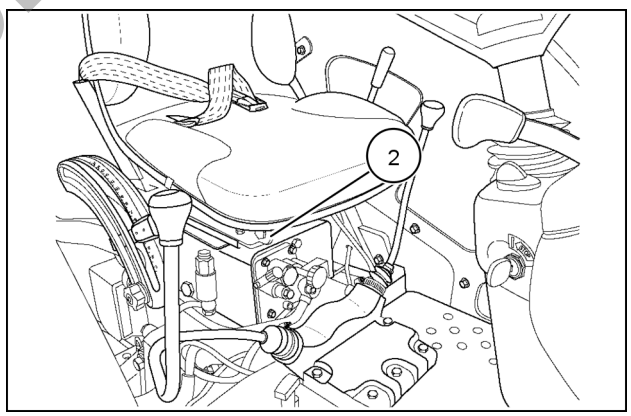
Before operating the tractor, it is important to adjust the seat to the most comfortable position. See the following text and illustrations for details.

The tractor is equipped with a non-adjustable seat spring suspension **(1)**.



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The operator's seat can be adjusted fore and aft by raising the release lever **(2)** and sliding the seat forward or rearward until the seat locks into the desired position.



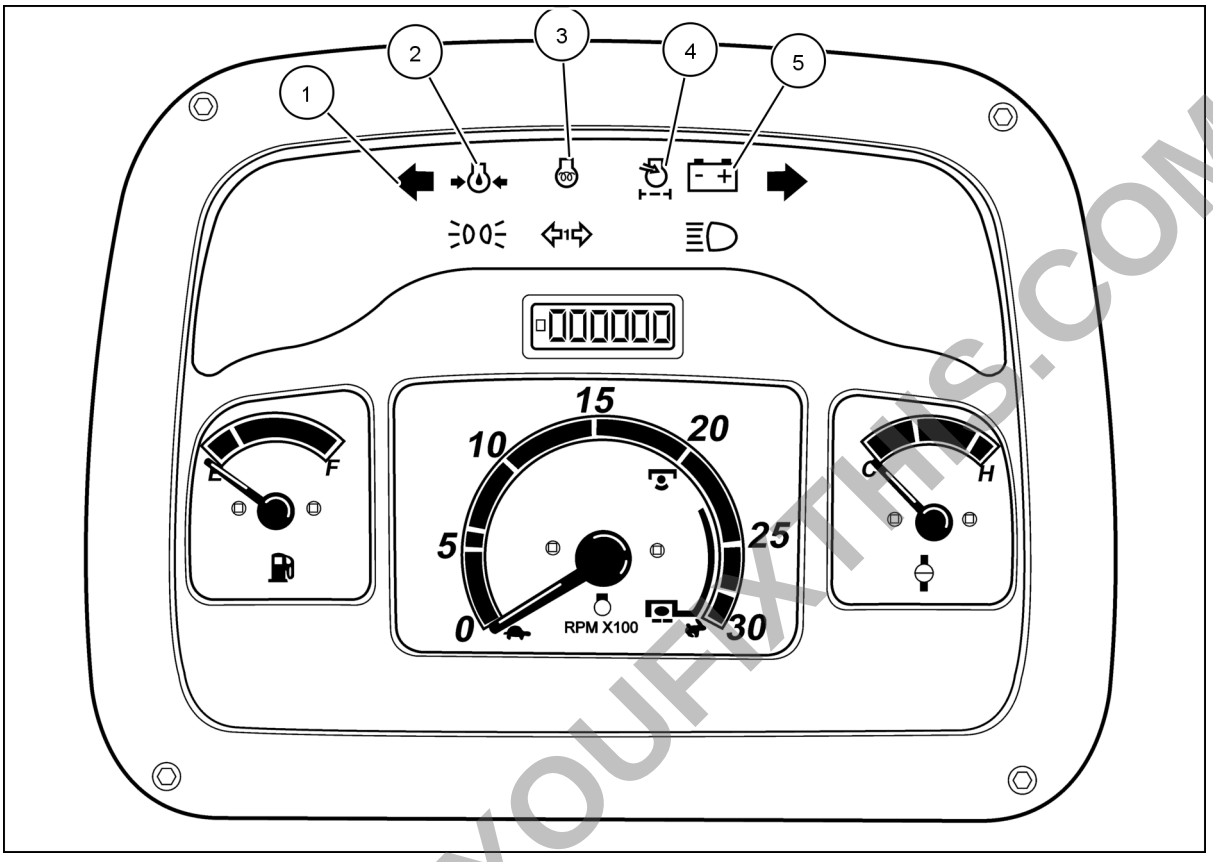
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FORWARD CONTROLS

Instrument panel



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INSTRUMENT PANEL, GAUGES, AND WARNING LIGHTS

The instrument panel comprises three gauges and nine colored lights, which provide operating information or give warning of system malfunction. The instruments are illuminated when key start switch is turned to the “ON” position.

1. Left Turn Indicator

The blinking GREEN light indicates the direction of turning to left hand side. Green light will flash in unison with tractor left hand turn signal.

2. Engine Oil Pressure

Steady light in the middle indicates low engine oil. pressure. Stop the engine and investigate the cause.

3. Cold Starting Indicator Light

Illuminates when the key switch is turned to the “RUN” position and grid engine heater is activated. Light will remain illuminated as long as the grid heater is activated.

4. Air Cleaner Restriction Light

Glowing of the air cleaner restriction light indicates that air cleaner is clogged. Clean the air cleaner outer element whenever light glows.

5. Battery Charging Indicator

Battery symbol illuminates when alternator is not charging the battery.

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4 - OPERATING INSTRUCTIONS

STARTING THE UNIT

Starting the tractor

Starting the Engine

⚠ WARNING

Run-over hazard!
When attempting to start the engine, always sit in the operator´s seat with the parking brake engaged and all control elements in neutral. Never attempt to start the engine while standing beside the machine.
Failure to comply could result in death or serious injury.

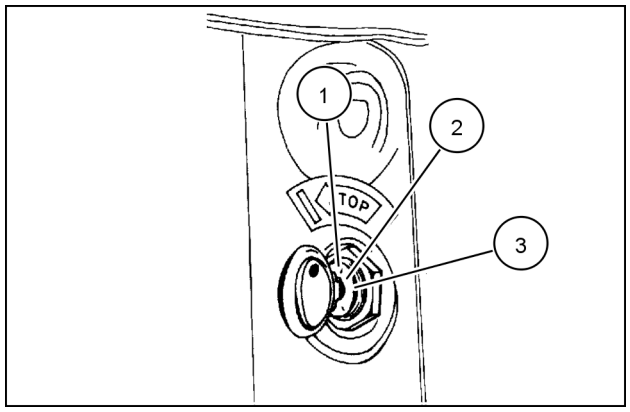
W0967B

1. Enter the tractor from left hand side only.
2. Sit in the driver seat.
3. Ensure that both gearshift levers are in neutral.
4. Ensure the PTO is disengaged.
5. Depress the clutch pedal.

NOTICE: *Never push or tow the tractor to start the engine. Doing so may overstress the drive train.*

NOTICE: *Neutral start switch prevent operation of the starting motor unless the gear levers are in the neutral position.*

A three-position key-start switch is installed. The key-start switch positions are as follows:



200900145 1

Position 1

Electrical equipment Off

Position 2

Accessories on (Head lamp, Instrument cluster, horn and gauges, brake lights, turn signal), Engine “ON”

Position 3

Engine Start - The full clockwise position activates the starter motor to start the engine. Once the key is released the switch returns to position 2.

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Starting the tractor with jumper cables

⚠ WARNING

Explosion hazard!
When jump-starting the machine, connect and disconnect the jumper cables exactly as indicated in this manual. DO NOT connect the jumper cables to the machine battery terminals. Make sure no persons are near the connecting points before starting the engine. Start the engine from the operator's seat.
Failure to comply could result in death or serious injury.

W0342A

⚠ WARNING

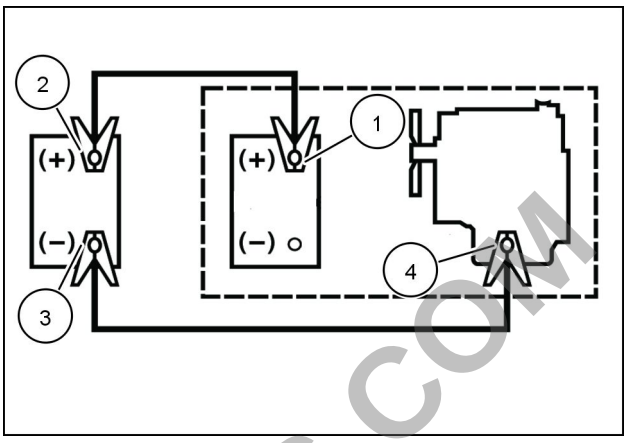
Unexpected machine movement!
Always sit in the operator's seat to operate the machine. DO NOT bypass the key start switch. Sudden and unexpected machine movement or machine runaway could result.
Failure to comply could result in death or serious injury.

W0464A

⚠ DANGER

Hazardous chemicals!
Battery electrolyte contains sulfuric acid. Contact with skin and eyes could result in severe irritation and burns. Always wear splash-proof goggles and protective clothing (gloves and aprons). Wash hands after handling.
Failure to comply will result in death or serious injury.

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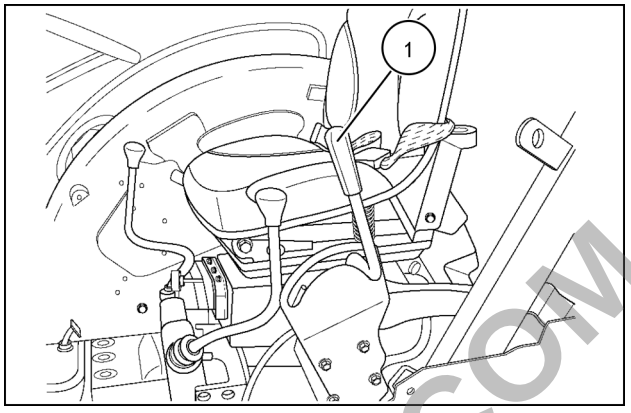
If you must use jumper cables to start the tractor:

1. Shield your eyes.
2. Connect one end of the jumper cable to the tractor battery positive (+) terminal **(1)** and the other to the auxiliary battery positive (+) terminal **(2)**.
3. Connect one end of the other jumper cable first to the auxiliary battery negative (-) terminal **(3)**, then the other end to the tractor starter ground terminal **(4)**.
4. Finally, start the tractor by following the safe starting procedures outlined earlier under "Starting the Engine".
5. Idle the engine and turn on all electrical equipment (lights, etc.), then disconnect the jumper cables in the reverse order in which they were connected. This helps protect the alternator from damage due to extreme load changes.

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1. To engage the PTO, pull lever **(1)** towards the operator's seat and then push forward until handle engages the notch in the quadrant.
2. The PTO system is totally independent of the tractor ground speed, and the following operations can be performed.
   - The tractor ground travel can be stopped without stopping the PTO.
   - Stop the PTO by disengaging the PTO clutch without stopping the tractor ground travel.
3. To disengage the PTO, pull lever **(1)** fully rearward.



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THREE POINT LINKAGE

Three-point linkage

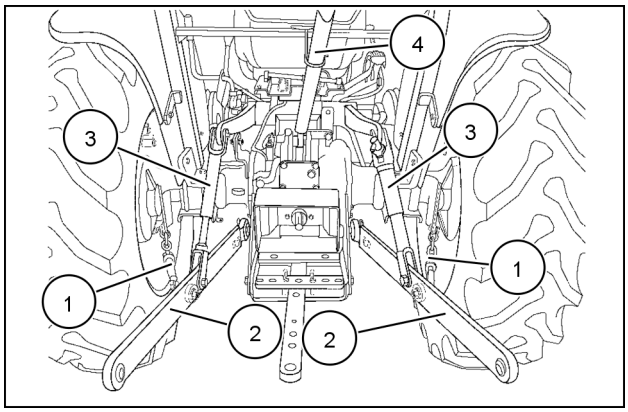
⚠ WARNING

Pinch hazard!
Always use the position control lever when attaching, detaching, or transporting implements.
Failure to comply could result in death or serious injury.

W0466A

NOTICE: *Before attaching equipment read the following text carefully.*

NOTICE: *Ensure that the stabilizers **(1)** are adjusted to suit the equipment. Remove the swinging drawbar, if close mounted equipment is being attached.*



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Description

The three-point linkage enables semi-mounted and fully mounted implements to be connected to the tractor, and be controlled by the tractor hydraulic system. The linkage consists of two lower links **(2)** connected to the rear axle housing. The rear end of the lower links are connected to the lower hitch pins on the implement.

The lower links are raised and lowered by means of the lift rods **(3)** connected to the lift arms . The right-hand lift rod is readily adjusted to ease the attachment of implements and to level the implement after attaching.

The top link **(4)** is connected to a bracket on the hydraulic lift housing. The rear of the top link should be connected to the upper hitch pin of a mounted implement. The top link is also adjustable to aid implement setting.

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7 - MAINTENANCE

GENERAL INFORMATION

Product overview

Introduction

This section gives full details of the service procedures necessary to maintain your tractor at peak efficiency. The lubrication and maintenance chart **7-7** provides a ready reference to these requirements. Each operation being numbered for easy reference. If in doubt about any aspect of lubrication and maintenance, consult your Authorized Dealer.

NOTICE: *While any company can perform necessary maintenance or repairs on your equipment, NEW HOLLAND AGRICULTURE strongly recommends that you use only authorized NEW HOLLAND AGRICULTURE dealers and products that meet the given specifications. Improperly or incorrectly performed maintenance and repair voids the equipment warranty and may affect service intervals.*

⚠ WARNING

Entanglement hazard!
Do not attempt any inspection or adjustment with the machine running.
1. Set the parking brake.
2. Turn off the engine.
3. Remove key from key switch.
Failure to comply could result in death or serious injury.

W0103A

During first 50 hours of operation

In addition to the regular maintenance operations listed, check the following items every 10 hours or daily during the first 50 hours of operation

- Check engine oil.
- Check transmission/hydraulic, final drive oil level.
- Wheel nuts for tightness.

NOTICE: *Park the tractor on level ground and where applicable, extend all cylinders on implements or attachments before checking oil levels.*

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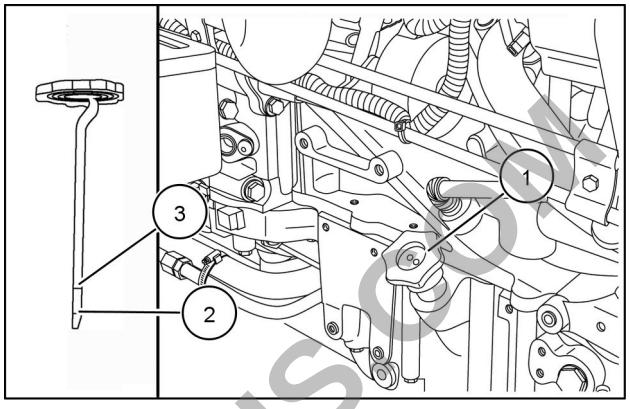
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Every 10 Hours of Operation or Daily (Whichever Occurs First)

Engine oil level - check

Before checking the oil level, ensure that the tractor is on level ground, stop the engine and wait for a short period to allow the oil to drain back into the sump.

1. Check the oil level by means of the dipstick **(1)**.



NHIL12CT00432AA 1

2. If the level is below the minimum mark **(2)**, add oil after removing the dipstick.

Do not fill above the upper (maximum) line **(3)**. Excessive oil will be burned off within a short time and give a false impression of oil consumption.
Refer **9-6** for the correct oil specifications and quantity.

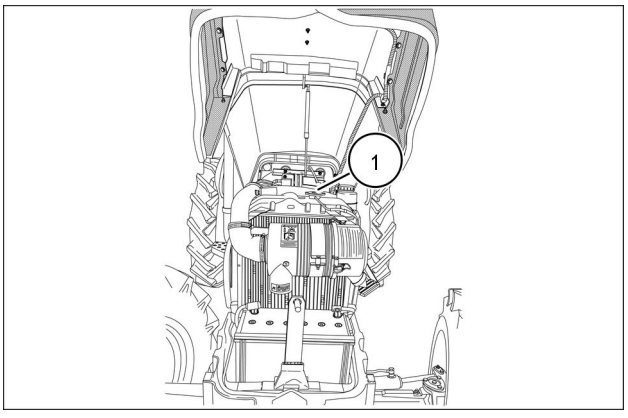
Radiator - Check

⚠ CAUTION

Burn hazard!
Hot coolant can spray out if you remove the filler cap while the system is hot. After the system has cooled, turn the filler cap to the first notch and wait for all pressure to release before proceeding. Failure to comply could result in minor or moderate injury.

C0043A

Peak power operation, followed by a rapid reduction in power requirement and engine speed, may cause the coolant to boil and be discharged from the radiator overflow tube. Normally, this loss of coolant is small and of little consequence, but repeated loss can significantly lower the coolant level and coolant may need to be added.



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1. Remove the radiator cap.
2. Add a **50 %**/ **50 %** solution of ethylene glycol antifreeze and water into the radiator until the coolant level is **20 mm** (**0.79 in**) below the neck of the radiator tank.
3. Install the radiator cap.

NOTICE: *Never use tractor without radiator cap **(1)** as this will result into boiling and hence evaporation of coolant.*

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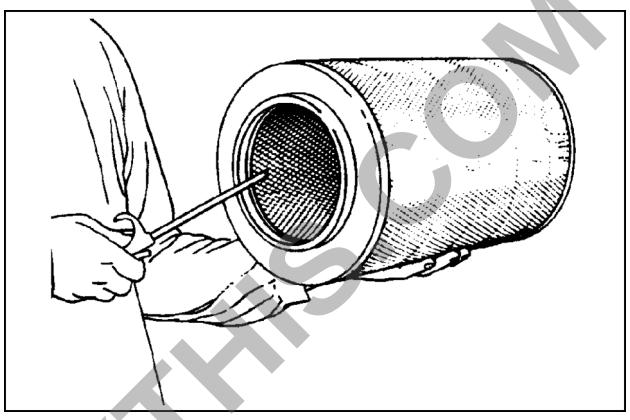
Method B

⚠ WARNING

Flying debris!
Compressed air can propel dirt, rust, etc. into the air. Wear eye and face protection when using compressed air.
Failure to comply could result in death or serious injury.

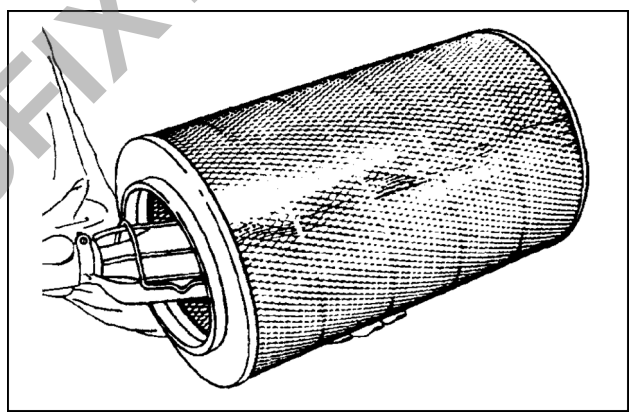
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Use compressed air, not exceeding **207 kPa** (**30 psi**). Insert the air line nozzle inside the element. Hold the nozzle **150 mm** (**6 in**) from the element and blow the dust from the inside through the element to the outside.



200900230 6

5. Examine the element for damage by placing a light inside the element. Discard the element if pin pricks of light can be seen or if there are areas where the paper appears thin.



200900231 7

6. Check the element material for bunching; the metal casing for distortion and the rubber gasket for damage. Discard the filter element if it is damaged.
7. Clean the inside of the air cleaner housing using a damp, lint-free cloth on a probe. Do not damage the inner filter element. Ensure that the inner end of the housing is clean and smooth, to ensure a good seating for the rubber seal on the element.
8. Install the cleaned outer element or a new outer element. Replace the nut/seal assembly if damaged.

Every 300 hours

Fuel filter - replace

NOTICE: *Before loosening or disconnecting any part of the fuel system, thoroughly clean the area to be worked on to prevent contamination.*

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Fuel injectors - Cleaning

⚠ WARNING

Escaping fluid!
Hydraulic fluid or diesel fuel leaking under pressure can penetrate the skin and cause infection or other injury. To prevent personal injury: Relieve all pressure before disconnecting fluid lines or performing work on the hydraulic system. Before applying pressure, make sure all connections are tight and all components are in good condition. Never use your hand to check for suspected leaks under pressure. Use a piece of cardboard or wood for this purpose. If injured by leaking fluid, see your doctor immediately.
Failure to comply could result in death or serious injury.

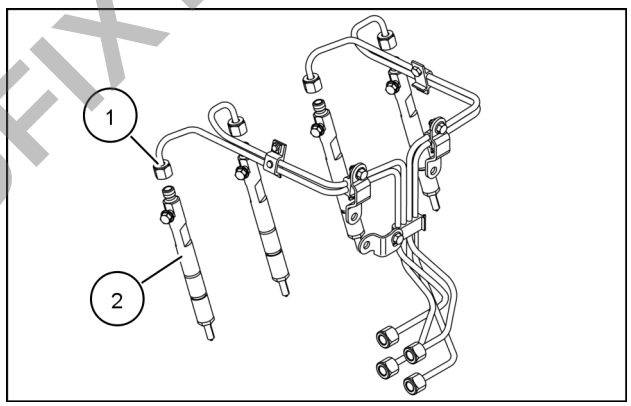
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NOTICE: *The injectors should be cleaned and adjusted only by an Authorized Dealer.*

NOTICE: *Before loosening or disconnecting any part of the fuel injection system, thoroughly clean the area to be worked on.*

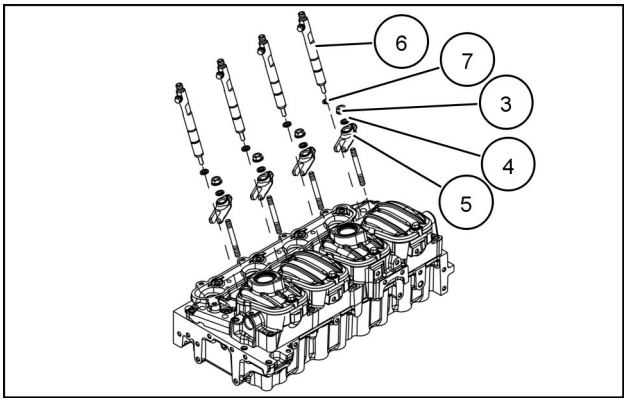
Injector removal

1. Disconnect the injector pipes **(1)** and the leak-off line at the injectors **(2)** .



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2. Remove the retaining nut **(3)** and washer **(4)** from the injector hold down **(5)**.
3. Remove the injector **(6)** from the cylinder head.
4. Extract the copper sealing washer **(7)** from each injector bore in the cylinder head. Use a new copper washer during installation. .



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2 - SAFETY INFORMATION

Signal word definitions

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 and on machine decals, 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. The color associated with DANGER is RED.

WARNING indicates a hazardous situation which, if not avoided, could result in death or serious injury. The color associated with WARNING is ORANGE.

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

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. The color associated with Notice is BLUE.*

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.

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