

SERVICE MANUAL

9030L

Grape Harvester

Part number 90323626

English

November 2019



Link Product / Engine

Product	Market Product	Engine
9030L Grape harvester for large vineyard - High capacity range with essential devices	North America	F4HFE413X*B001

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INTRODUCTION

Foreword - 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 manufacturer reserves the right to make improvements in design and changes in specifications at any time without notice and without incurring any obligation to install them on units previously sold. Specifications, descriptions, and illustrative material herein are as accurate as known at time of publication but are subject to change without notice.

In case of questions, refer to your NEW HOLLAND Sales and Service Networks.

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 that, if not avoided, will result in death or serious injury.

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

 CAUTION indicates a hazardous situation that, 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 that, 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 that 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.

Safety rules - Ecology and the environment

Soil, air, and water quality is important for all industries and life in general. When legislation does not yet rule the treatment of some of the substances that advanced technology requires, sound judgment should govern the use and disposal of products of a chemical and petrochemical nature.

Familiarize yourself with the relative legislation applicable to your country, and make sure that you understand this legislation. Where no legislation exists, obtain information from suppliers of oils, filters, batteries, fuels, anti-freeze, cleaning agents, etc., with regard to the effect of these substances on man and nature and how to safely store, use, and dispose of these substances.

Helpful hints

- Avoid the use of cans or other inappropriate pressurized fuel delivery systems to fill tanks. Such delivery systems may cause considerable spillage.
- In general, avoid skin contact with all fuels, oils, acids, solvents, etc. Most of these products contain substances that may be harmful to your health.
- Modern oils contain additives. Do not burn contaminated fuels and or waste oils in ordinary heating systems.
- Avoid spillage when you drain fluids such as used engine coolant mixtures, engine oil, hydraulic fluid, brake fluid, etc. Do not mix drained brake fluids or fuels with lubricants. Store all drained fluids safely until you can dispose of the fluids in a proper way that complies with all local legislation and available resources.
- Do not allow coolant mixtures to get into the soil. Collect and dispose of coolant mixtures properly.
- The air-conditioning system contains gases that should not be released into the atmosphere. Consult an air-conditioning specialist or use a special extractor to recharge the system properly.
- Repair any leaks or defects in the engine cooling system or hydraulic system immediately.
- Do not increase the pressure in a pressurized circuit as this may lead to a component failure.
- Protect hoses during welding. Penetrating weld splatter may burn a hole or weaken hoses, allowing the loss of oils, coolant, etc.

Battery recycling

Batteries and electric accumulators contain several substances that can have a harmful effect on the environment if the batteries are not properly recycled after use. Improper disposal of batteries can contaminate the soil, groundwater, and waterways. NEW HOLLAND strongly recommends that you return all used batteries to a NEW HOLLAND dealer, who will dispose of the used batteries or recycle the used batteries properly. In some countries, this is a legal requirement.



Mandatory battery recycling

NOTE: The following requirements are mandatory in Brazil.

Batteries are made of lead plates and a sulfuric acid solution. Because batteries contain heavy metals such as lead, CONAMA Resolution 401/2008 requires you to return all used batteries to the battery dealer when you replace any batteries. Do not dispose of batteries in your household garbage.

Points of sale are obliged to:

- Accept the return of your used batteries
- Store the returned batteries in a suitable location
- Send the returned batteries to the battery manufacturer for recycling

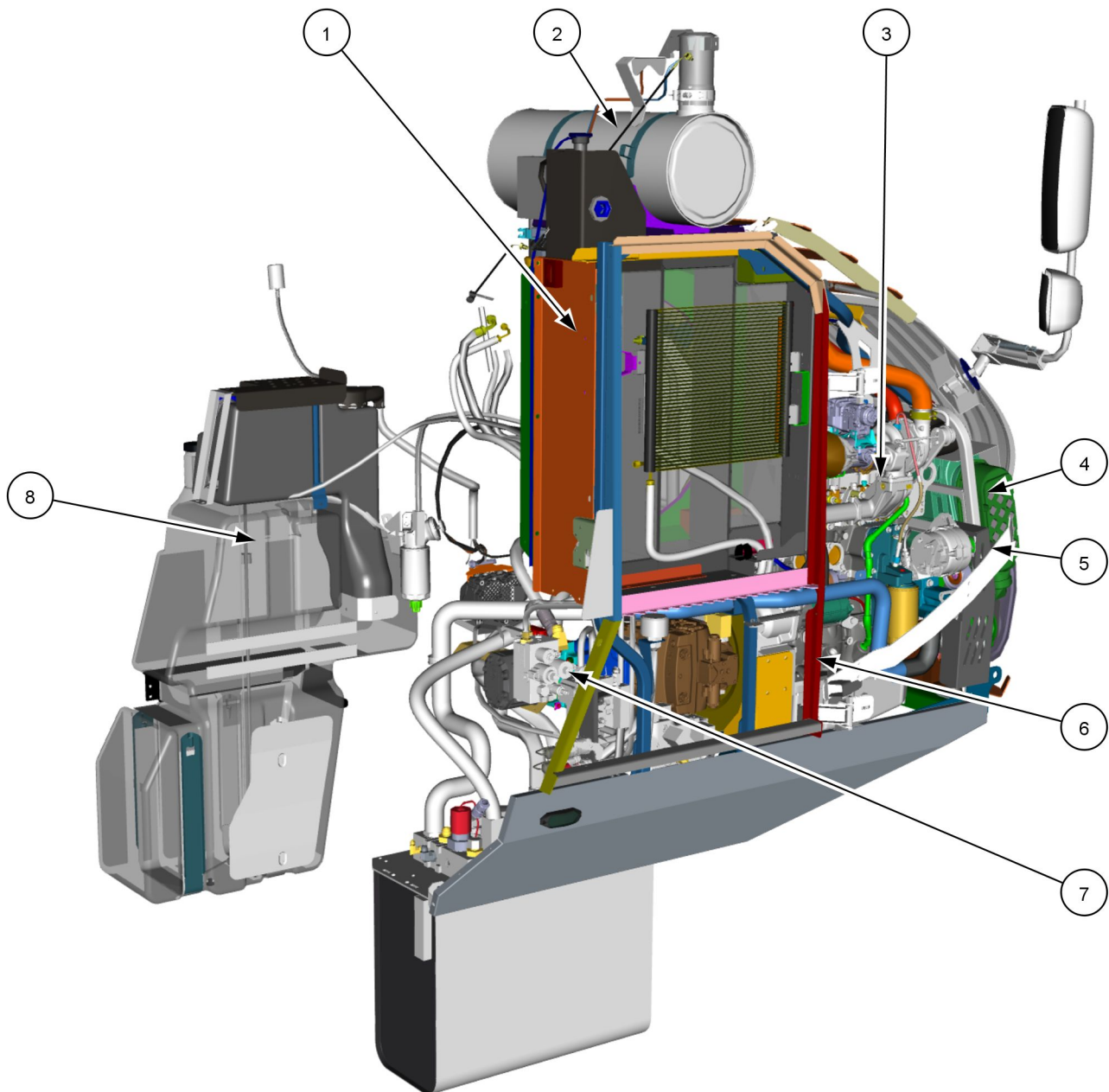


SERVICE MANUAL

Engine

9030L

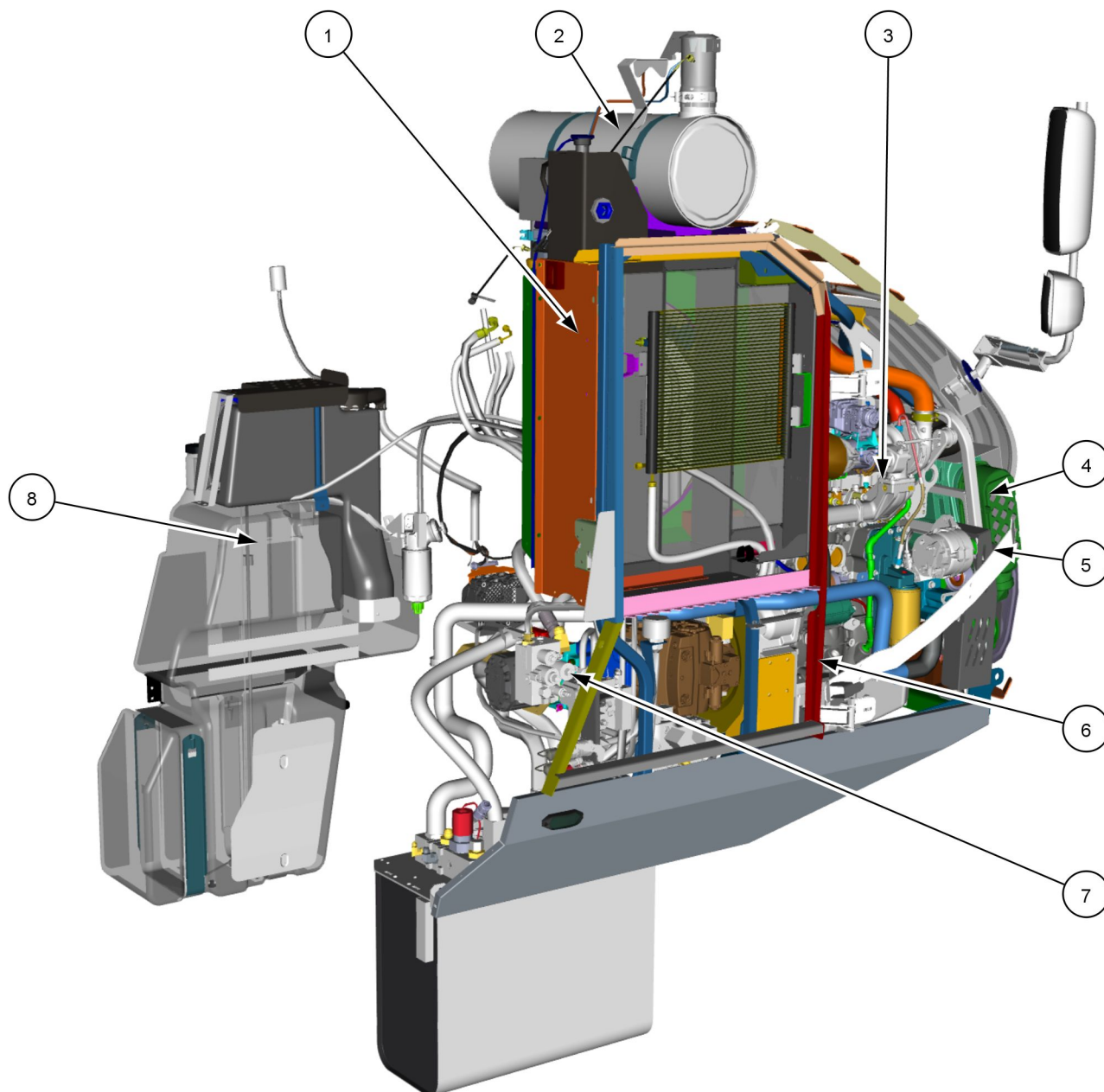
Engine and crankcase - Overview - GENERAL COMBUSTION ENGINE



COIL17GR00851UA 1

1	Cooling system	Radiator - Detailed view - Engine cooling (10.400)
2	Exhaust gas after treatment - SCR	Selective Catalytic Reduction (SCR) exhaust treatment - Detailed view (10.500)
3	Engine – General specifications	Engine and crankcase - Detailed view - Engine general information (10.001)
4	Air cleaner	Engine and crankcase - Detailed view - Air filter (10.001)
5	Servo belt	Engine and crankcase - Detailed view - Servo belt (10.001)
6	Engine mount	Engine and crankcase - Detailed view of the engine frame - 9000 M & L (10.001)
7	Pumps	Engine and crankcase - Detailed view - Pumps (10.001)
8	Fuel system	Fuel tanks - Detailed view - Fuel System (10.216)
9	Flector	Engine and crankcase - Detailed view - The flex disc (10.001)

Engine and crankcase - Overview - GENERAL COMBUSTION ENGINE



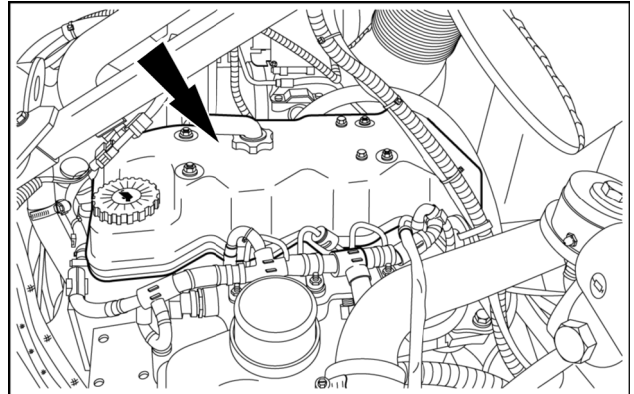
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8	Fuel system	Fuel tanks - Detailed view - Fuel System (10.216)
9	Flector	Engine and crankcase - Detailed view - The flex disc (10.001)

Engine - Check

The valve-to-tappet clearances are located inside the valve rocker cover.

The valve-to-tappet clearances should be checked and adjusted by your authorized dealer.

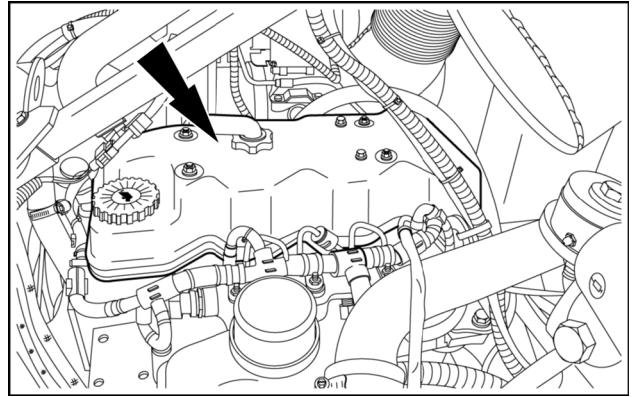


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Engine - Replace

The breather filter and pressure regulator are located inside the valve rocker cover.

The filter and pressure regulator should be cleaned or replaced by your authorized NEW HOLLAND dealer.



COIL15GR00344AA 1

Engine - Remove

⚠ WARNING

Hot surface possible!
Wait for all components to cool before performing any operation.
Failure to comply could result in death or serious injury.

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Prior operation:

Recover the air conditioning system, see **Air conditioning - Recover (50.200)**.

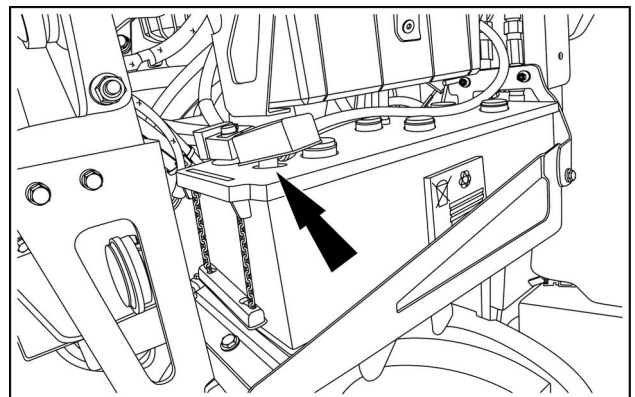
Prior operation:

Remove the cooling pack assembly, see **Engine cooling system - Remove (10.400)**.

NOTICE: 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.

7030M and 8030L models

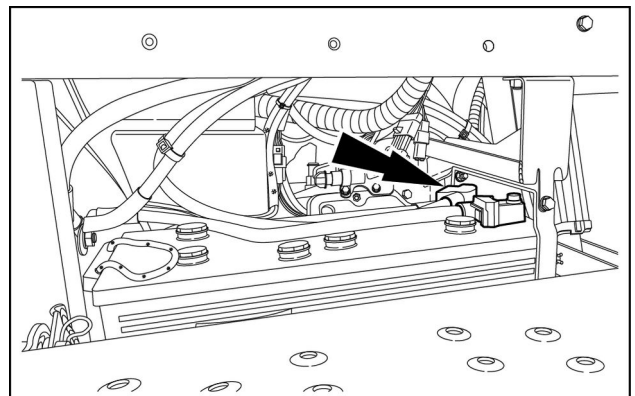
1. Disconnect the negative (–) terminal from machine's battery.



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9070L model

2. Disconnect the negative (–) terminal from machine's battery.



COIL16GR01309AA 2

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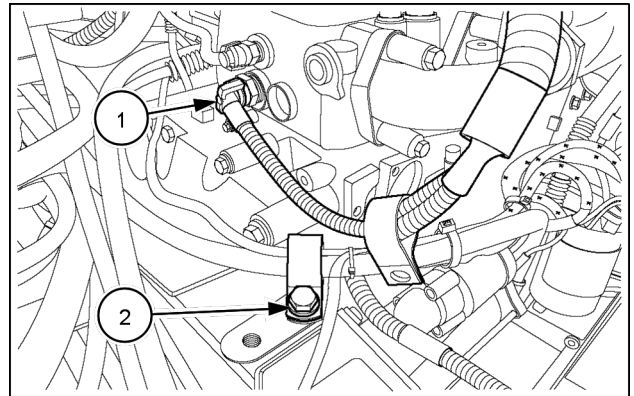
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Thank you so much for reading.

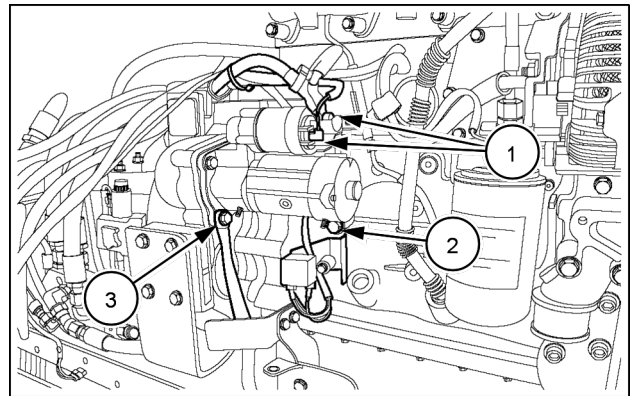
All models

3. 1. Detach the clamp **(2)**.
2. Remove the cooling pipe **(1)**.



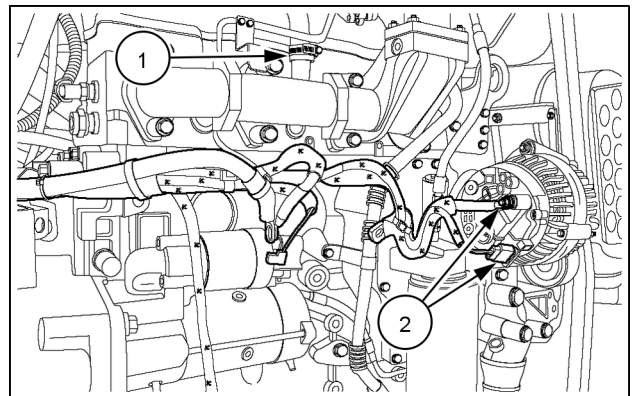
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4. 1. Disconnect the starter motor electrical connectors **(1)**.
2. Detach the relay bracket **(2)**.
3. Disconnect the earth strap **(3)**.



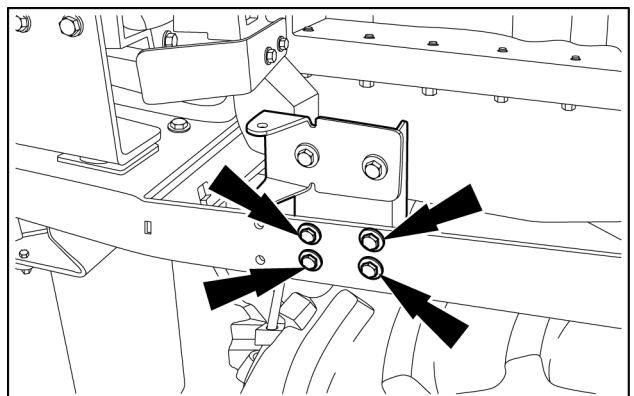
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5. 1. Disconnect the alternator electrical connectors **(2)**.
2. Reposition the wiring harness to one side.
3. Disconnect the coolant hose **(1)**.



COIL14GR00225AC 5

6. Remove the engine side panel retaining bracket.



COIL14GR00226AB 6