

SERVICE MANUAL

7030L

Grape Harvester

Part number 90323609

English

November 2019



Link Product / Engine

Product	Market Product	Engine
7030L Grape harvester for large vineyard - Medium capacity range with essential devices	North America	F4HFE413Y*B001

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INTRODUCTION

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

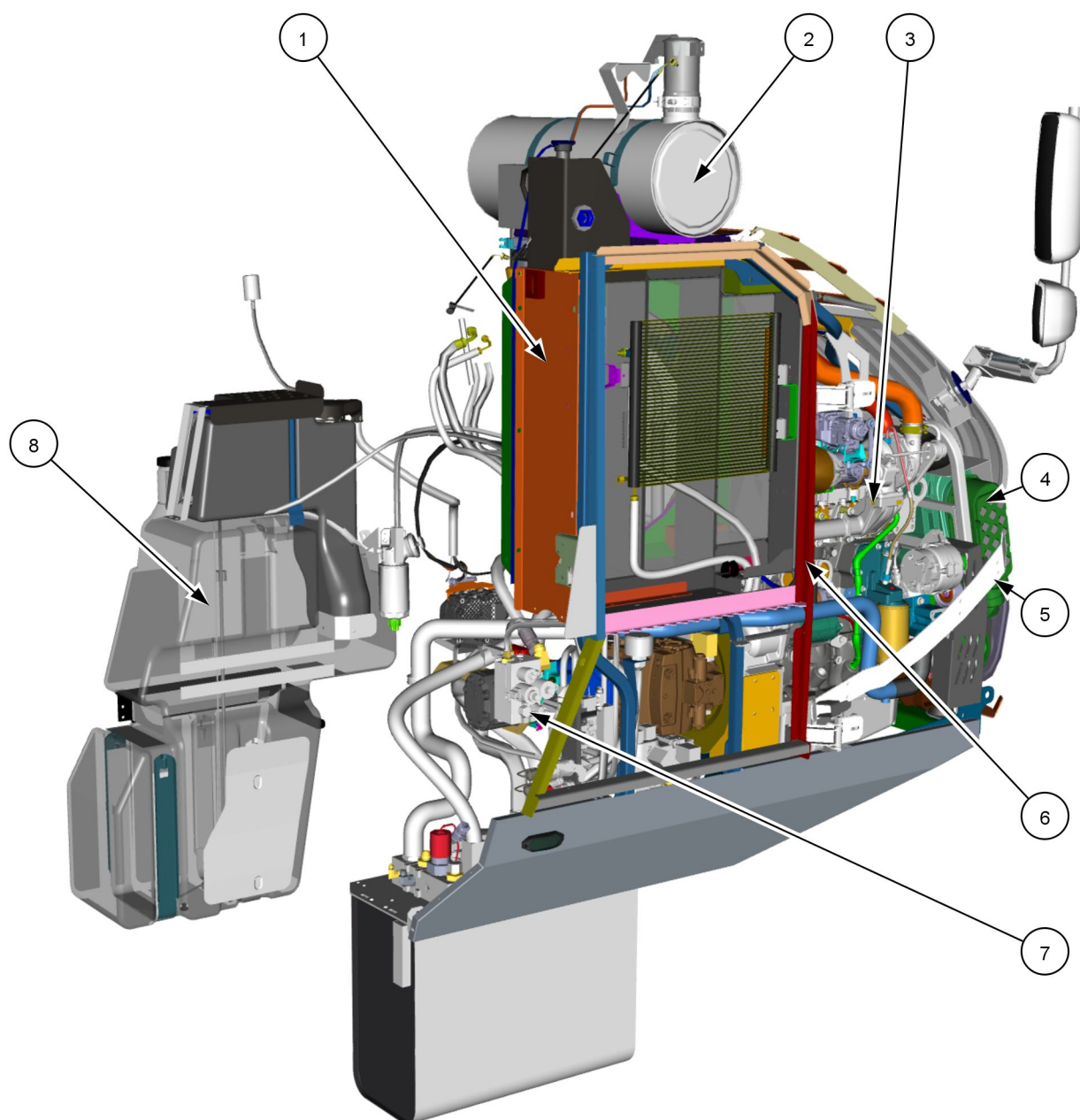


SERVICE MANUAL

Engine

7030L

Engine and crankcase - Overview - GENERAL COMBUSTION ENGINE

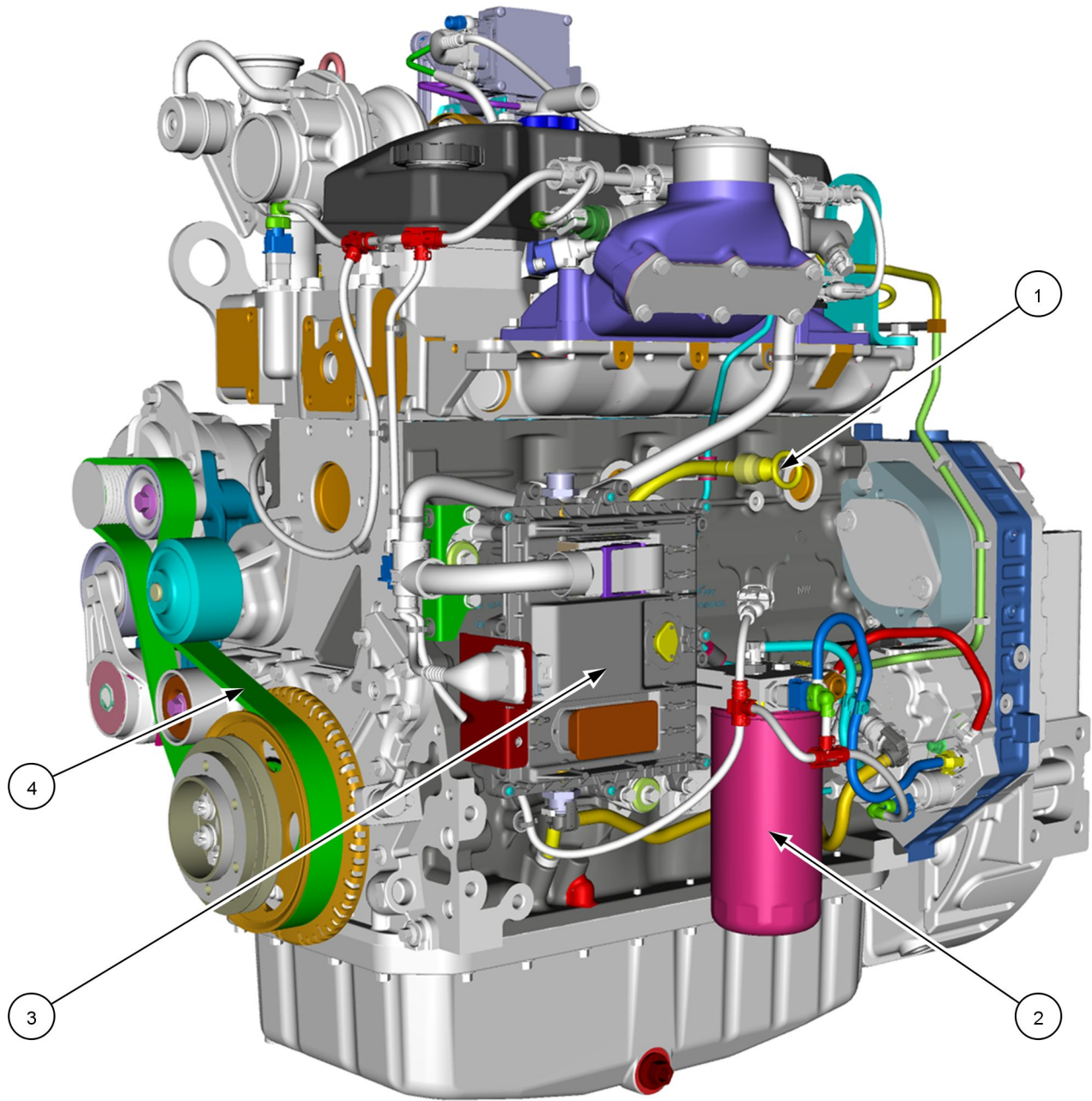


COIL17GR00851UA 1

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 stand	Engine and crankcase - Overview - Engine mount (10.001)
7	Pumps	Engine and crankcase - Detailed view - Pumps (10.001)

Engine and crankcase - Detailed view - Engine general information

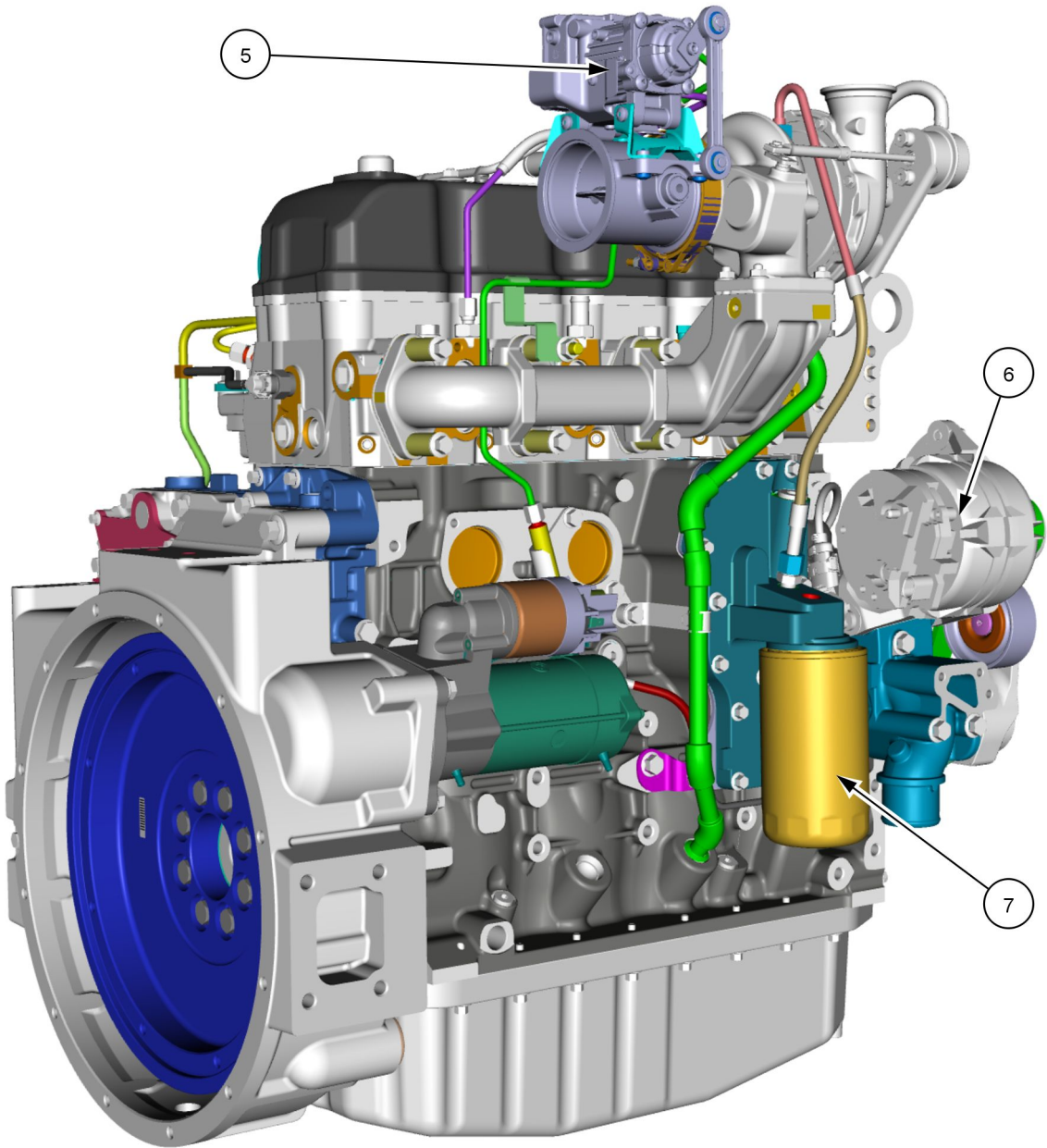
Location of components



COIL17GR00853UA 1

DESCRIPTION

- 1 Engine oil dipstick
- 2 Fuel filter
- 3 ECU
- 4 Servo belt



COIL17GR00852UA 2

DESCRIPTION

- 5 Exhaust flap
- 6 Alternator
- 7 Oil filter

Oil filter

The oil filter is located on the inner face of the engine. It should be replaced every **600 h** or every year.

Engine breather filter

The breather filter is made of foam. It should be replaced every **1500 h**. To replace this filter, remove the rocker cover.

Preservation

Change the engine breather filter	Engine - Replace (10.001)
Replace fuel filters	Fuel filters - Replace - Compact (10.206)

Draining and replacing the engine oil filter	Engine lubrication system - Replace (10.304)
Checking the engine oil level	Engine lubrication system - Check (10.304)
Adjusting the spacing between the engine valve rockers	Engine - Check (10.001)
Draining the fuel filter water separator	Fuel filters - Drain fluid - Compact (10.206)

From series 098 onward the alternator housing has been revised to prevent any interference.

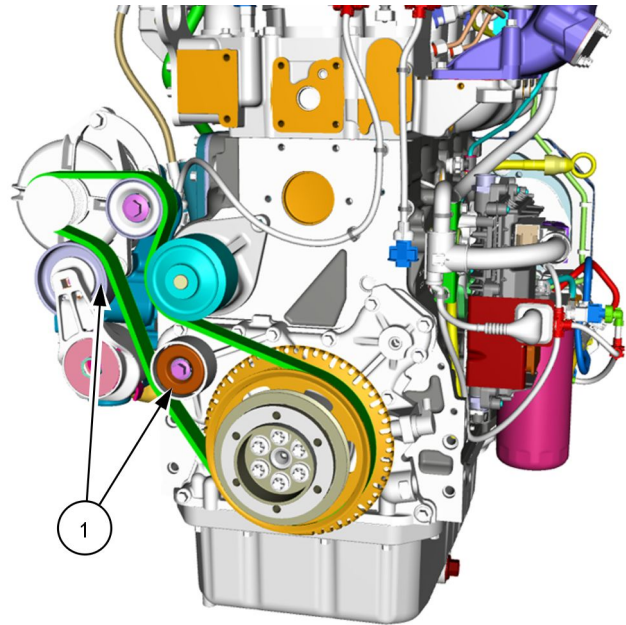
From series 095 onward, access to the drain plug has been improved.

Engine and crankcase - Detailed view - Servo belt

Check the rotation of the tensioners (1) every year.
The servo belt should be replaced every **1200 h**.

The servo belt drives:

- The water pump
- The alternator



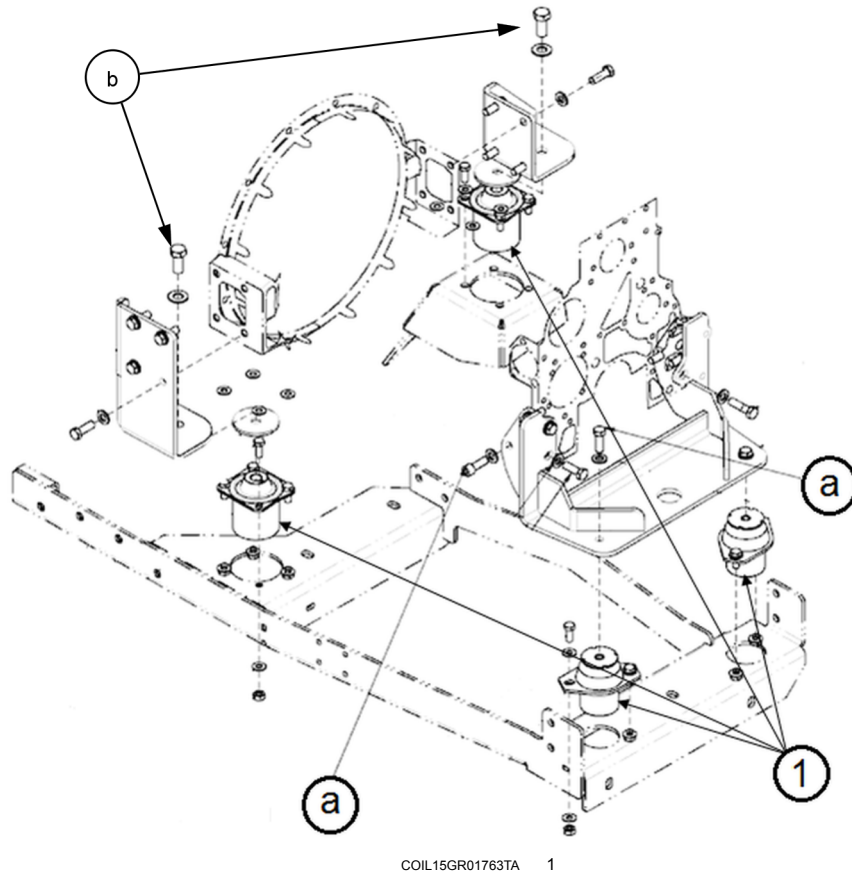
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Replacing the belt/water pump	Water pump pulley - Replace (10.414)
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Engine and crankcase - Detailed view of the engine frame - 9000 M & L

The engine is held in a frame that rests on an engine mount.

The engine mount provides a connection between the machine chassis and the engine.



The frame surrounds the engine. The frame supports various components such as the radiators, the engine fan, the emission control system, etc.

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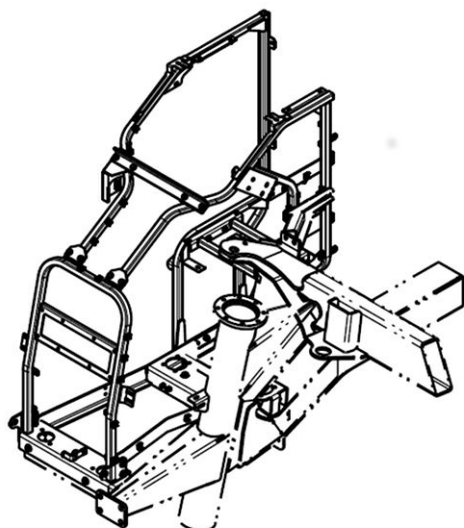


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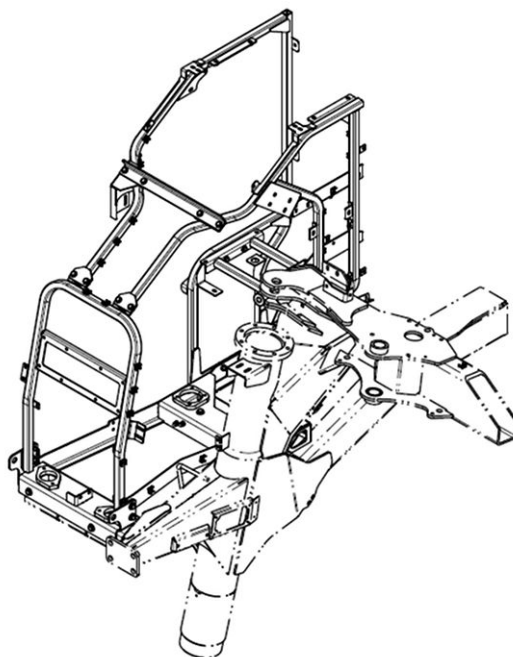
Thank you so much for reading.

For **106.0 kW (144.1 Hp)** engine



COIL16GR03964QA 2

For **121.0 kW (164.5 Hp)** engine (except on 9030L machines)



COIL16GR03965QA 3

From the 088 series, the engine hoods have changed. They are not interchangeable with hoods on machines produced before the 088 series.