SERVICE MANUAL

T8.270 / T8.295 / T8.325
T8.355 / T8.385
Tractor

Part number 84417609
English
March 2014

SERVICE MANUAL

T8.270 18x6, with cabin
T8.295 18x6, with cabin
T8.325 18x6, with cabin
T8.355 18x6, with cabin
T8.385 18x6, with cabin

84417609C 10/03/2014

Link Product / Engine

Product	Market Product	Engine
null 18x6, with cabin [HCCZ8270JDCN13409 -]	Latin America	F2CFA613P*A010
null 18x6, with cabin [ZBCN40989 -]	Latin America	F2CFA613P*A010
null 18x6, with cabin [HCCZ8295JDCN13409 -]	Latin America	F2CFA613N*A010
null 18x6, with cabin [ZBCN40989 -]	Latin America	F2CFA613N*A010
null 18x6, with cabin [HCCZ8325JDCN13409 -]	Latin America	F2CFA613J*A010
null 18x6, with cabin [ZBCN40989 -]	Latin America	F2CFA613J*A010
null 18x6, with cabin [HCCZ8355JDCN13409 -]	Latin America	F2CFA613F*A010
null 18x6, with cabin [ZBCN40989 -]	Latin America	F2CFA613F*A010
null 18x6, with cabin [HCCZ8385JDCN13409 -]	Latin America	F2CFA613C*A010
null 18x6, with cabin [ZBCN40989 -]	Latin America	F2CFA613C*A010

Contents

INTRODUCTION

Contents

INTRODUCTION

(*) See content for specific models

International symbols

T8.270	LA
T8.295	LA
T8.325	LA
T8.355	LA
T8.385	LA

As a guide to the operation of the machine, various universal symbols have been utilized on the instruments, controls, switches, and fuse box. The symbols are shown below with an indication of their meaning.


Heater plug for cold start


Turning signal


Power Take-Off (PTO)


Reaction control


Alternator charging

Activated memory

Transmission in neutral


Accessories socket


Fuel level


Turn signals


Creeper selection


Implement socket


Automatic fuel shut-off

Turn signals - one trailer


Low speed selection

Percentage slip


Engine speed (rpm x 100)

Turn signals - two trailers


High speed selection


Raising of the hydraulic lift


Hour meter


Wind shield washer


Road speed


Rear hitch lower


Engine oil pressure


Windscreen wash wipe


Differential Lock


Hydraulic lift height threshold


Engine coolant temperature


Heating temperature control


Rear axle oil temperature


Hydraulic lift disabled


Coolant level


Cab recirculation fan


Transmission oil pressure


Transmission filters and hydraulic filters


Machine lights


Air conditioner


Auxiliary Front Wheel Drive (AFWD) operated


Remote control valve extension


Main beam head


Air Filter Restriction


Warning!


Remote control valve command retraction


Low beam

Parking brake


Danger warning lights


Remote control valve flotation


Work lamps


Brake fluid level


Variable control


Malfunction! See Operator's


Stop lamp


Trailer brake


Pressurized! Open carefully


Malfunction! (alternative symbol)


Klaxon


Warning! Corrosive substance


Position control


Brake fluid level

Safety rules

T8.270	LA
T8.295	LA
T8.325	LA
T8.355	LA
T8.385	LA

Standard safety precautions

Be informed and notify personnel of the laws in force regulating safety, and provide documentation available for consultation.

- Keep working areas as clean as possible.
- Ensure that working areas are provided with emergency boxes. They must be clearly visible and always contain adequate sanitary equipment.
- Fire extinguishers must be properly identified and always be clear of obstructions. Their efficiency must be checked on a regular basis and personnel must be trained on proper interventions and priorities.
- Keep all emergency exits free of obstructions and clearly marked.
- Smoking in working areas subject to fire danger must be strictly prohibited.

Prevention of injury

- Wear suitable work attire and safety glasses with no jewelry such as rings and chains when working close to engines and equipment in motion.
- Wear safety gloves and goggles when performing the following operations:
  - Topping off or changing lubrication oils.
  - Using compressed air or liquids at a pressure greater than **2 bar** (**29 psi**).
- Wear a safety helmet when working close to hanging loads or equipment working at head level.
- Always wear safety shoes and fitting clothes.
- Use protection cream for hands.
- Change wet clothes as soon as possible.
- In the presence of voltages exceeding **48 - 60 V**, verify the efficiency of the ground and mass electrical connections. Ensure that hands and feet are dry and use isolating foot boards. Workers should be properly trained to work with electricity.
- Do not smoke or start an open flame close to batteries and any fuel material.
- Place soiled rags with oil, diesel fuel or solvents in specially provided anti-fire containers.
- Do not use any tool or equipment for any use other than what it was originally intended for. Serious injury may occur.
- If running an engine indoors, make sure there is a sufficient exhaust fan in use to eliminate exhaust fumes.

During maintenance

- Never open the filler cap of the cooling system when the engine is hot. High temperature liquid at operating pressure could result in serious danger and risk of burn. Wait until the temperature decreases under **50 °C** (**122 °F**).
- Never add coolant to an overheated engine and use only appropriate liquids.
- Always work when the engine is turned off. Certain circumstances require maintenance on a running engine. Be aware of all the risks involved with such an operation.
- Always use adequate and safe containers for engine fluids and used oil.
- Keep engine clean of any spilled fluids such as oil, diesel fuel, and or chemical solvents.
- Use of solvents or detergents during maintenance may emit toxic vapors. Always keep working areas aerated. Wear a safety mask if necessary.
- Do not leave soiled rags that may contain any flammable substances close to the engine.

- Always use caution when starting an engine after any work has been performed. Be prepared to cut off intake air in case of engine runaway.
- Never disconnect the batteries while the engine is running.
- Disconnect the batteries prior to performing any work on the equipment.
- Disconnect the batteries to place a load on them with a load tester.
- After any work is performed, verify that the battery clamp polarity is correct and that the clamps are tight and safe from accidental short circuit and oxidation.
- Before disconnecting any pipelines (pneumatic, hydraulic, fuel pipes, etc.), verify that all pressure has been released. Take all necessary precautions bleeding and draining residual pressure. Always wear the proper safety equipment.
- Do not alter the lengths of any wires.
- Do not connect any electronic service tool to the engine electrical equipment unless specifically approved by NEW HOLLAND.
- Do not modify the fuel system or hydraulic system unless approved by NEW HOLLAND. Any unauthorized modification will compromise warranty assistance and may affect engine operation and life span.

For engine equipped with an electronic control unit

- Do not weld on any part of the equipment without removing the control unit.
- Remove the in case of work requiring heating over **80 °C** (**176 °F**).
- Do not paint the components and the electronic connections.
- Do not alter any data filed in the electronic control unit driving the engine. Any manipulation or alteration of electronic components will void engine warranty assistance and may affect the correct working order and life span of the engine.

Respect of the Environment

- Respect of the environment should be of primary importance. Take all necessary precautions to ensure personnel's safety and health.
- Inform the personnel of the laws regarding the dispensing of used engine fluids.
- Handle batteries with care, storing them in a well ventilated environment and within anti-acid container.

Torque - Minimum tightening torques for normal assembly

T8.270	LA
T8.295	LA
T8.325	LA
T8.355	LA
T8.385	LA

METRIC NON-FLANGED HARDWARE

NOM. SIZE	CLASS 8.8 BOLT and CLASS 8 NUT		CLASS 10.9 BOLT and CLASS 10 NUT		LOCKNUT CL.8 W/CL8.8 BOLT	LOCKNUT CL.10 W/CL10.9 BOLT
	UNPLATED	PLATED W/ZnCr	UNPLATED	PLATED W/ZnCr		
M4	2.2 N·m (19 lb in)	2.9 N·m (26 lb in)	3.2 N·m (28 lb in)	4.2 N·m (37 lb in)	2 N·m (18 lb in)	2.9 N·m (26 lb in)
M5	4.5 N·m (40 lb in)	5.9 N·m (52 lb in)	6.4 N·m (57 lb in)	8.5 N·m (75 lb in)	4 N·m (36 lb in)	5.8 N·m (51 lb in)
M6	7.5 N·m (66 lb in)	10 N·m (89 lb in)	11 N·m (96 lb in)	15 N·m (128 lb in)	6.8 N·m (60 lb in)	10 N·m (89 lb in)
M8	18 N·m (163 lb in)	25 N·m (217 lb in)	26 N·m (234 lb in)	35 N·m (311 lb in)	17 N·m (151 lb in)	24 N·m (212 lb in)
M10	37 N·m (27 lb ft)	49 N·m (36 lb ft)	52 N·m (38 lb ft)	70 N·m (51 lb ft)	33 N·m (25 lb ft)	48 N·m (35 lb ft)
M12	64 N·m (47 lb ft)	85 N·m (63 lb ft)	91 N·m (67 lb ft)	121 N·m (90 lb ft)	58 N·m (43 lb ft)	83 N·m (61 lb ft)
M16	158 N·m (116 lb ft)	210 N·m (155 lb ft)	225 N·m (166 lb ft)	301 N·m (222 lb ft)	143 N·m (106 lb ft)	205 N·m (151 lb ft)
M20	319 N·m (235 lb ft)	425 N·m (313 lb ft)	440 N·m (325 lb ft)	587 N·m (433 lb ft)	290 N·m (214 lb ft)	400 N·m (295 lb ft)
M24	551 N·m (410 lb ft)	735 N·m (500 lb ft)	762 N·m (560 lb ft)	1016 N·m (750 lb ft)	501 N·m (370 lb ft)	693 N·m (510 lb ft)

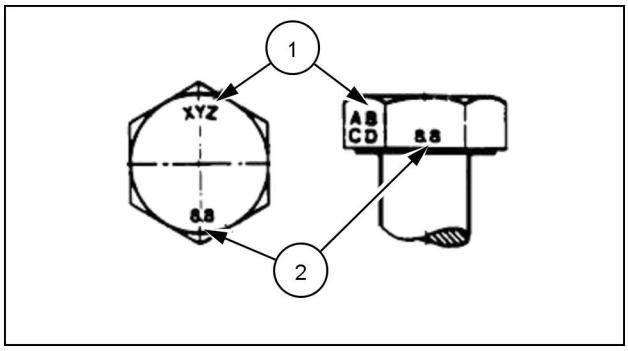
NOTE: *M4 through M8 hardware torque specifications are shown in pound-inches. M10 through M24 hardware torque specifications are shown in pound-feet.*

METRIC FLANGED HARDWARE

NOM. SIZE	CLASS 8.8 BOLT and CLASS 8 NUT		CLASS 10.9 BOLT and CLASS 10 NUT		LOCKNUT CL.8 W/CL8.8 BOLT	LOCKNUT CL.10 W/CL10.9 BOLT
	UNPLATED	PLATED W/ZnCr	UNPLATED	PLATED W/ZnCr		
M4	2.4 N·m (21 lb in)	3.2 N·m (28 lb in)	3.5 N·m (31 lb in)	4.6 N·m (41 lb in)	2.2 N·m (19 lb in)	3.1 N·m (27 lb in)
M5	4.9 N·m (43 lb in)	6.5 N·m (58 lb in)	7.0 N·m (62 lb in)	9.4 N·m (83 lb in)	4.4 N·m (39 lb in)	6.4 N·m (57 lb in)
M6	8.3 N·m (73 lb in)	11 N·m (96 lb in)	12 N·m (105 lb in)	16 N·m (141 lb in)	7.5 N·m (66 lb in)	11 N·m (96 lb in)
M8	20 N·m (179 lb in)	27 N·m (240 lb in)	29 N·m (257 lb in)	39 N·m (343 lb in)	18 N·m (163 lb in)	27 N·m (240 lb in)
M10	40 N·m (30 lb ft)	54 N·m (40 lb ft)	57 N·m (42 lb ft)	77 N·m (56 lb ft)	37 N·m (27 lb ft)	53 N·m (39 lb ft)
M12	70 N·m (52 lb ft)	93 N·m (69 lb ft)	100 N·m (74 lb ft)	134 N·m (98 lb ft)	63 N·m (47 lb ft)	91 N·m (67 lb ft)
M16	174 N·m (128 lb ft)	231 N·m (171 lb ft)	248 N·m (183 lb ft)	331 N·m (244 lb ft)	158 N·m (116 lb ft)	226 N·m (167 lb ft)
M20	350 N·m (259 lb ft)	467 N·m (345 lb ft)	484 N·m (357 lb ft)	645 N·m (476 lb ft)	318 N·m (235 lb ft)	440 N·m (325 lb ft)
M24	607 N·m (447 lb ft)	809 N·m (597 lb ft)	838 N·m (618 lb ft)	1118 N·m (824 lb ft)	552 N·m (407 lb ft)	

IDENTIFICATION

Metric Hex head and carriage bolts, classes 5.6 and up



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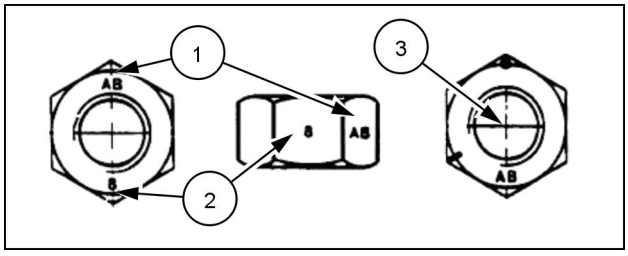
1. Manufacturer's Identification
2. Property Class

Metric Hex nuts and locknuts, classes 05 and up



20083681 2

1. Manufacturer's Identification
2. Property Class
3. Clock Marking of Property Class and Manufacturer's Identification (Optional), i.e. marks **60 °** apart indicate Class 10 properties, and marks **120 °** apart indicate Class 8.

INCH NON-FLANGED HARDWARE

NOMINAL SIZE	SAE GRADE 5 BOLT and NUT		SAE GRADE 8 BOLT and NUT		LOCKNUT GrB W/ Gr5 BOLT	LOCKNUT GrC W/ Gr8 BOLT
	UN-PLATED or PLATED SILVER	PLATED W/ZnCr GOLD	UN-PLATED or PLATED SILVER	PLATED W/ZnCr GOLD		
1/4	**8 N·m (71 lb in)**	**11 N·m (97 lb in)**	**12 N·m (106 lb in)**	**16 N·m (142 lb in)**	**8.5 N·m (75 lb in)**	**12.2 N·m (109 lb in)**
5/16	**17 N·m (150 lb in)**	**23 N·m (204 lb in)**	**24 N·m (212 lb in)**	**32 N·m (283 lb in)**	**17.5 N·m (155 lb in)**	**25 N·m (220 lb in)**
3/8	**30 N·m (22 lb ft)**	**40 N·m (30 lb ft)**	**43 N·m (31 lb ft)**	**57 N·m (42 lb ft)**	**31 N·m (23 lb ft)**	**44 N·m (33 lb ft)**
7/16	**48 N·m (36 lb ft)**	**65 N·m (48 lb ft)**	**68 N·m (50 lb ft)**	**91 N·m (67 lb ft)**	**50 N·m (37 lb ft)**	**71 N·m (53 lb ft)**
1/2	**74 N·m (54 lb ft)**	**98 N·m (73 lb ft)**	**104 N·m (77 lb ft)**	**139 N·m (103 lb ft)**	**76 N·m (56 lb ft)**	**108 N·m (80 lb ft)**
9/16	**107 N·m (79 lb ft)**	**142 N·m (105 lb ft)**	**150 N·m (111 lb ft)**	**201 N·m (148 lb ft)**	**111 N·m (82 lb ft)**	**156 N·m (115 lb ft)**
5/8	**147 N·m (108 lb ft)**	**196 N·m (145 lb ft)**	**208 N·m (153 lb ft)**	**277 N·m (204 lb ft)**	**153 N·m (113 lb ft)**	**215 N·m (159 lb ft)**
3/4	**261 N·m (193 lb ft)**	**348 N·m (257 lb ft)**	**369 N·m (272 lb ft)**	**491 N·m (362 lb ft)**	**271 N·m (200 lb ft)**	**383 N·m (282 lb ft)**
7/8	**420 N·m (310 lb ft)**	**561 N·m (413 lb ft)**	**594 N·m (438 lb ft)**	**791 N·m (584 lb ft)**	**437 N·m (323 lb ft)**	**617 N·m (455 lb ft)**
1	**630 N·m (465 lb ft)**	**841 N·m (620 lb ft)**	**890 N·m (656 lb ft)**	**1187 N·m (875 lb ft)**	**654 N·m (483 lb ft)**	**924 N·m (681 lb ft)**

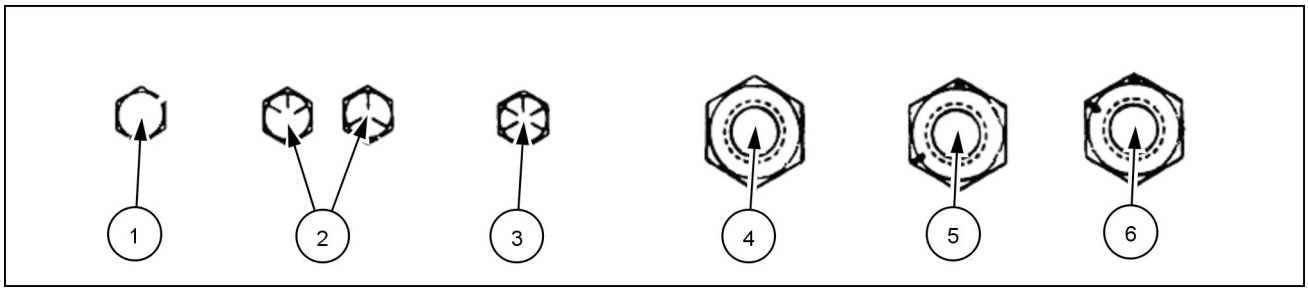
NOTE: *For Imperial Units,* ***1/4 in*** *and* ***5/16 in*** *hardware torque specifications are shown in pound-inches.* ***3/8 in*** *through* ***1 in*** *hardware torque specifications are shown in pound-feet.*

INCH FLANGED HARDWARE

NOM-INAL SIZE	SAE GRADE 5 BOLT and NUT		SAE GRADE 8 BOLT and NUT		LOCKNUT GrF W/ Gr5 BOLT	LOCKNUT GrG W/ Gr8 BOLT
	UNPLATED or PLATED SILVER	PLATED W/ZnCr GOLD	UNPLATED or PLATED SILVER	PLATED W/ZnCr GOLD		
1/4	**9 N·m (80 lb in)**	**12 N·m (106 lb in)**	**13 N·m (115 lb in)**	**17 N·m (150 lb in)**	**8 N·m (71 lb in)**	**12 N·m (106 lb in)**
5/16	**19 N·m (168 lb in)**	**25 N·m (221 lb in)**	**26 N·m (230 lb in)**	**35 N·m (310 lb in)**	**17 N·m (150 lb in)**	**24 N·m (212 lb in)**
3/8	**33 N·m (25 lb ft)**	**44 N·m (33 lb ft)**	**47 N·m (35 lb ft)**	**63 N·m (46 lb ft)**	**30 N·m (22 lb ft)**	**43 N·m (32 lb ft)**
7/16	**53 N·m (39 lb ft)**	**71 N·m (52 lb ft)**	**75 N·m (55 lb ft)**	**100 N·m (74 lb ft)**	**48 N·m (35 lb ft)**	**68 N·m (50 lb ft)**
1/2	**81 N·m (60 lb ft)**	**108 N·m (80 lb ft)**	**115 N·m (85 lb ft)**	**153 N·m (113 lb ft)**	**74 N·m (55 lb ft)**	**104 N·m (77 lb ft)**
9/16	**117 N·m (86 lb ft)**	**156 N·m (115 lb ft)**	**165 N·m (122 lb ft)**	**221 N·m (163 lb ft)**	**106 N·m (78 lb ft)**	**157 N·m (116 lb ft)**
5/8	**162 N·m (119 lb ft)**	**216 N·m (159 lb ft)**	**228 N·m (168 lb ft)**	**304 N·m (225 lb ft)**	**147 N·m (108 lb ft)**	**207 N·m (153 lb ft)**
3/4	**287 N·m (212 lb ft)**	**383 N·m (282 lb ft)**	**405 N·m (299 lb ft)**	**541 N·m (399 lb ft)**	**261 N·m (193 lb ft)**	**369 N·m (272 lb ft)**
7/8	**462 N·m (341 lb ft)**	**617 N·m (455 lb ft)**	**653 N·m (482 lb ft)**	**871 N·m (642 lb ft)**	**421 N·m (311 lb ft)**	**594 N·m (438 lb ft)**
1	**693 N·m (512 lb ft)**	**925 N·m (682 lb ft)**	**979 N·m (722 lb ft)**	**1305 N·m (963 lb ft)**	**631 N·m (465 lb ft)**	**890 N·m (656 lb ft)**

IDENTIFICATION

Inch Bolts and free-spinning nuts



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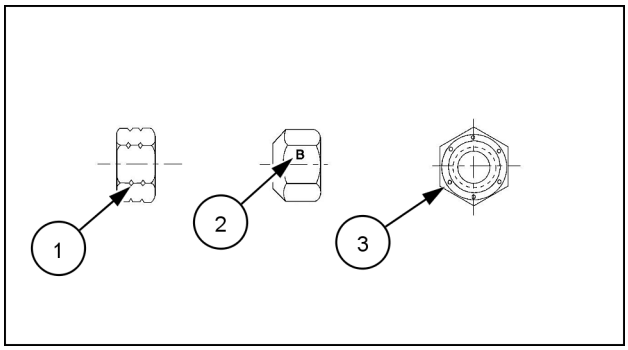
Grade Marking Examples

SAE Grade Identification			
1	Grade 2 - No Marks	4	Grade 2 Nut - No Marks
2	Grade 5 - Three Marks	5	Grade 5 Nut - Marks **120 °** Apart
3	Grade 8 - Five Marks	6	Grade 8 Nut - Marks **60 °** Apart

Inch Lock Nuts, All Metal (Three optional methods)



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Grade Identification

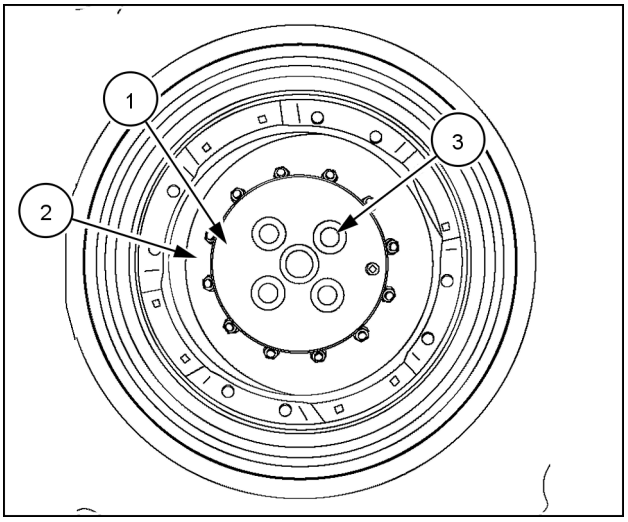
Grade	Corner Marking Method (1)	Flats Marking Method (2)	Clock Marking Method (3)
Grade A	No Notches	No Mark	No Marks
Grade B	One Circumferential Notch	Letter B	Three Marks
Grade C	Two Circumferential Notches	Letter C	Six Marks

Capacities

T8.270	LA
T8.295	LA
T8.325	LA
T8.355	LA
T8.385	LA

System	Quantity	Fluid
9.0 l engine		
Engine oil – no filter change Engine oil– with filter change	**24.0 L** (**6.3 US gal**) **27.0 L** (**7.1 US gal**)	**NEW HOLLAND AMBRA MASTERGOLD™ HSP ENGINE OIL SAE 15W-40**, **NEW HOLLAND AMBRA SUPER GOLD 15W-40**
Cooling system	**26.5 L** (**7.0 US gal**)	**NEW HOLLAND AMBRA AGRIFLU**
Transmission system, hydraulic system and brakes	**174.0 L** (**46.0 US gal**)	**NEW HOLLAND AMBRA MULTI G™ HYDRAULIC TRANSMISSION OIL**
Mechanical front drive		
4 Pin – **100 mm** (**4 in**) hub length standard axle*		
Differential	**11.8 L** (**12.5 US qt**)	**NEW HOLLAND AMBRA HYPOIDE 140**
Planetary (each)	**3.3 L** (**7.0 US pt**)	
4 Pin – **180 mm** (**7 in**) hub length heavy duty axle*		
Differential	**11.8 L** (**12.5 US qt**)	**NEW HOLLAND AMBRA HYPOIDE 140**
Planetary (each)	**3.3 L** (**7.0 US pt**)	
3pin – **250 mm** (**10 in**) hub length heavy duty class 5 axle		
Differential	**15.0 L** (**15.9 US qt**)	**NEW HOLLAND AMBRA HYPOIDE 140**
Planetary (each)	**6.0 L** (**12.7 US pt**)	
4.75 NEW HOLLAND fixed front axle		
Differential	**17.5 L** (**18.5 US qt**)	**NEW HOLLAND AMBRA HYPOIDE 140**
Planetary (each)	**4.3 L** (**9.1 US pt**)	
5.0 NEW HOLLAND fixed front axle		
Differential	**17.5 L** (**18.5 US qt**)	**NEW HOLLAND AMBRA HYPOIDE 140**
Planetary (each)	**4.5 L** (**9.5 US pt**)	
Fuel tank	**636.0 L** (**168.0 US gal**)	
* Pin quantity is determined by observing the wheel ends.		

Measure the distance from the outer face of the hub **(1)** and bolting surface of the wheel **(2)**, and count the number of pins **(3)** on the wheel end to determine axle type for your tractor



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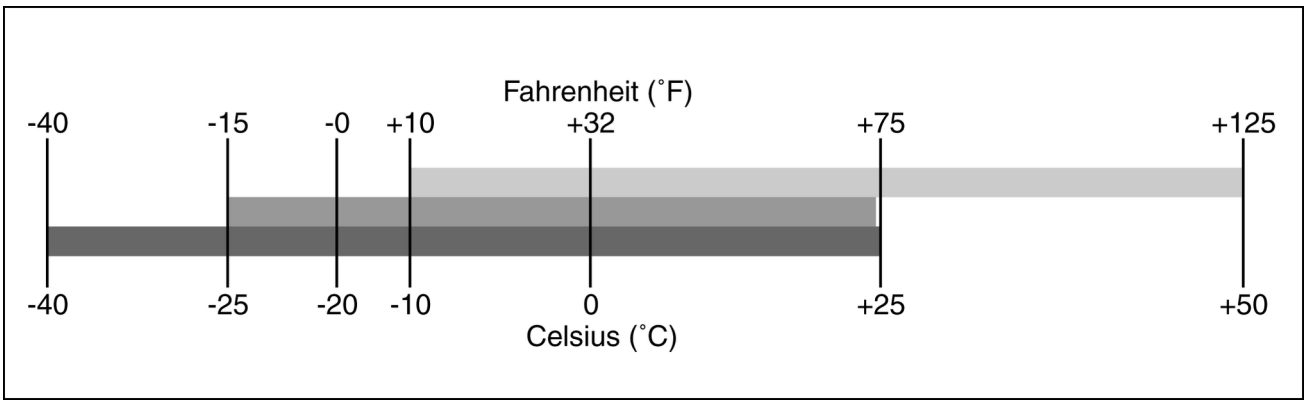

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Axle oil viscosity/temperature usage recommendation

NEW HOLLAND AMBRA HYPOIDE 140

NEW HOLLAND AMBRA HYPOIDE 90

NEW HOLLAND AMBRA HYPOIDE SSL GEAR OIL

SERVICE MANUAL

Engine

T8.270 18x6, with cabin [HCCZ8270JDCN13409 -] , T8.270 18x6, with cabin [ZBCN40989 -] , T8.295 18x6, with cabin [HCCZ8295JDCN13409 -] , T8.295 18x6, with cabin [ZBCN40989 -] , T8.325 18x6, with cabin [HCCZ8325JDCN13409 -] , T8.325 18x6, with cabin [ZBCN40989 -] , T8.355 18x6, with cabin [HCCZ8355JDCN13409 -] , T8.355 18x6, with cabin [ZBCN40989 -] , T8.385 18x6, with cabin [HCCZ8385JDCN13409 -] , T8.385 18x6, with cabin [ZBCN40989 -]

Contents

Engine - 10

Engine - 10

Engine and crankcase - 001

T8.270 18x6, with cabin [HCCZ8270JDCN13409 -] , T8.270 18x6, with cabin [ZBCN40989 -] , T8.295 18x6, with cabin [HCCZ8295JDCN13409 -] , T8.295 18x6, with cabin [ZBCN40989 -] , T8.325 18x6, with cabin [HCCZ8325JDCN13409 -] , T8.325 18x6, with cabin [ZBCN40989 -] , T8.355 18x6, with cabin [HCCZ8355JDCN13409 -] , T8.355 18x6, with cabin [ZBCN40989 -] , T8.385 18x6, with cabin [HCCZ8385JDCN13409 -] , T8.385 18x6, with cabin [ZBCN40989 -]

Contents

Engine - 10

Engine and crankcase - 001

SERVICE

(*) See content for specific models

Engine - Remove

T8.270	LA
T8.295	LA
T8.325	LA
T8.355	LA
T8.385	LA

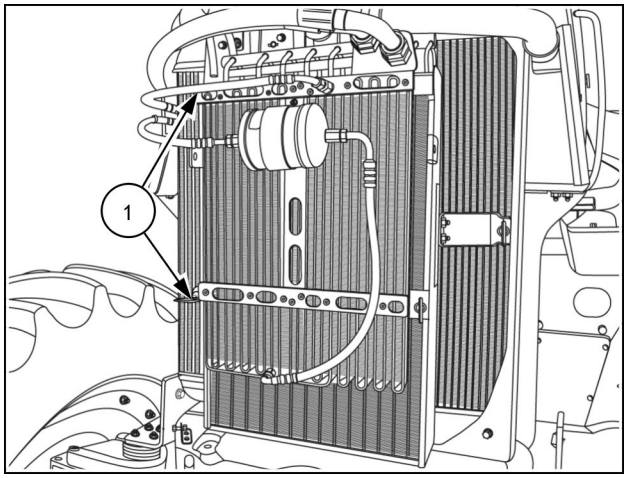
Prior operation:
Disconnect the batteries — **Battery - Disconnect (55.302)**
Prior operation:
Remove the hood — **Hood - Remove (90.100)**
Prior operation:
Recover the refrigerant — **Air conditioning - Recover (50.200)**
Prior operation:
Drain the coolant — **Engine cooling system - Emptying (10.400)**

ATTENTION: *For tractors equipped with front PTO/hitch, refer to steps **81**– **96** for additional disassembly instructions.*

NOTE: *Clean all fittings before disconnecting.*

NOTE: *Cap or plug all lines and ports when disconnecting hydraulic components.*

1. Remove the nuts **(1)** securing the condenser/fuel cooler.



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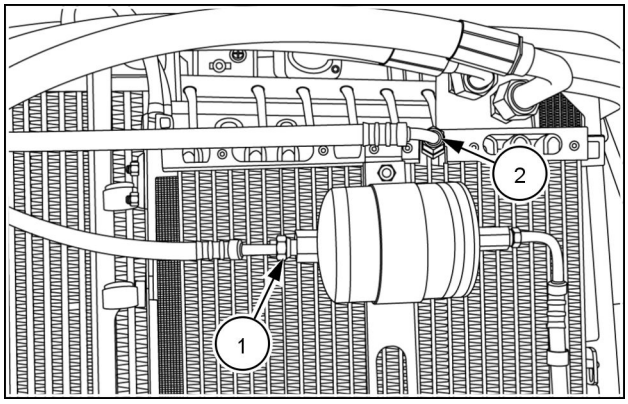
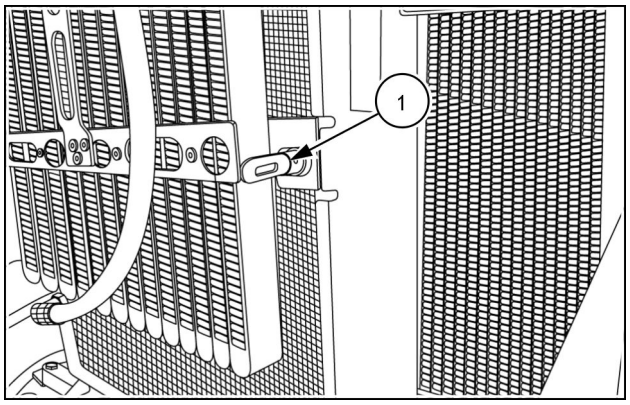
2. Disconnect the refrigerant hose from the receiver/dryer **(1)** and the condenser outlet hose **(2)**.



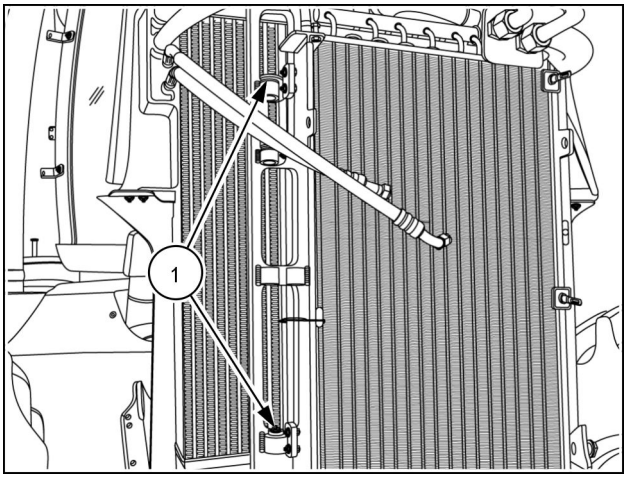
RCPH10CCH896AAB 2

3. Open the latch **(1)**, and carefully remove the cooler from it's mounting and set aside.



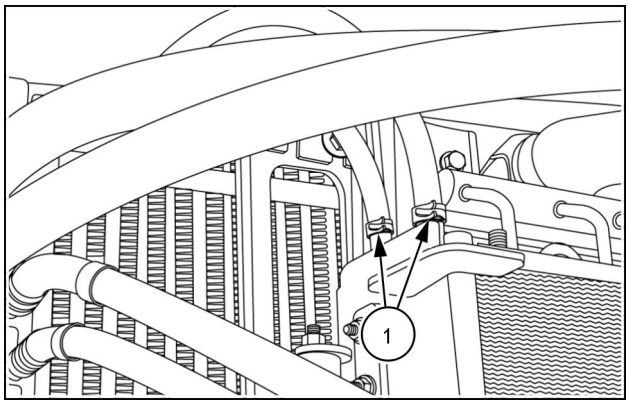
RCPH10CCH894AAB 3

4. Remove the nuts **(1)** securing the oil cooler to it's support bracket.



RCPH10CCH055BAB 4

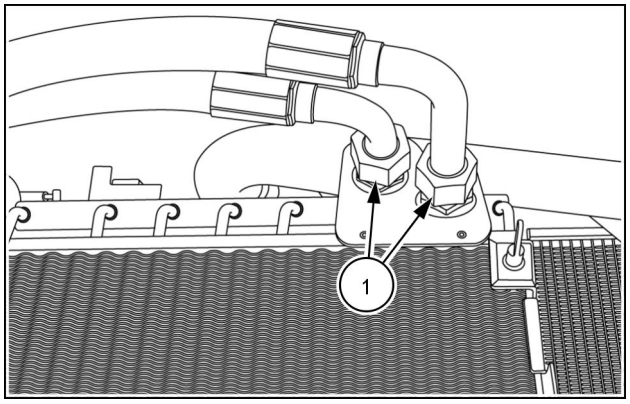
5. Disengage the hose clamps **(1)**, tag and remove the fuel hoses at the cooler.



RCPH10CCH897AAB 5

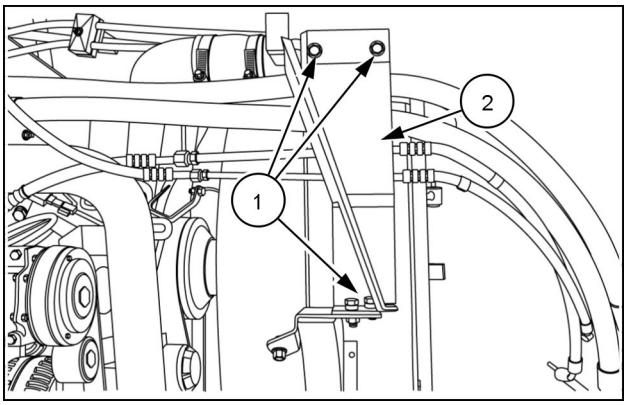
6. Loosen the hydraulic hose fittings **(1)** at the oil cooler. Remove the hoses. Carefully remove the cooler and set aside.

NOTE: *Be prepared to collect some hydraulic fluid.*



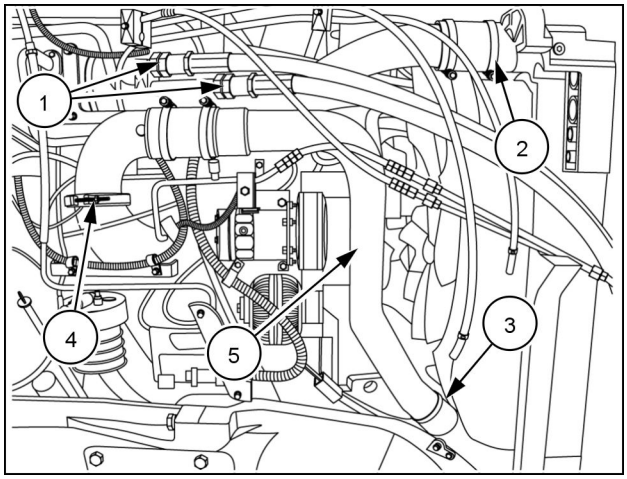
RCPH10CCH898AAB 6

7. Remove the bolts **(1)** securing the right hose bracket **(2)**.



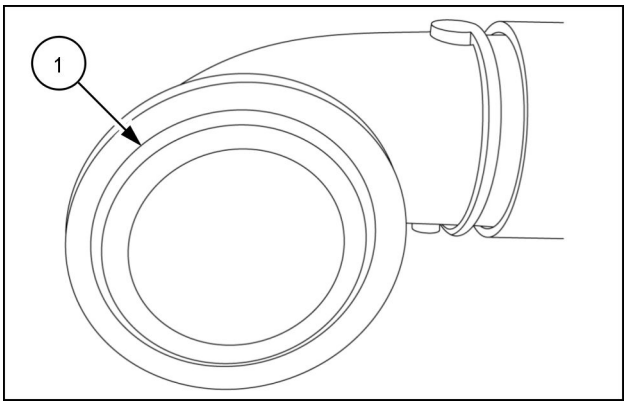
RCPH10CCH899AAB 7

8. Tag and remove the hydraulic hoses **(1)**.
9. Loosen the clamp **(2)** on the air cooler tube.
10. Loosen the clamp **(3)** at the air cooler outlet tube.
11. Remove the clamp **(4)** at the elbow to the intake manifold.
12. Remove the tube assembly **(5)** and set aside.



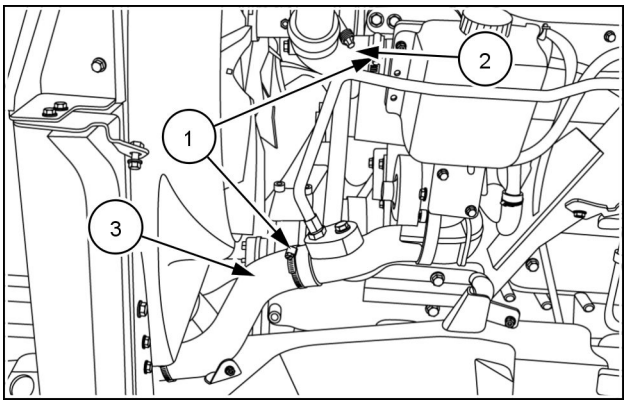
RCPH10CCH056BAB 8

13. Remove and discard the intake elbow O-ring seal **(1)**.



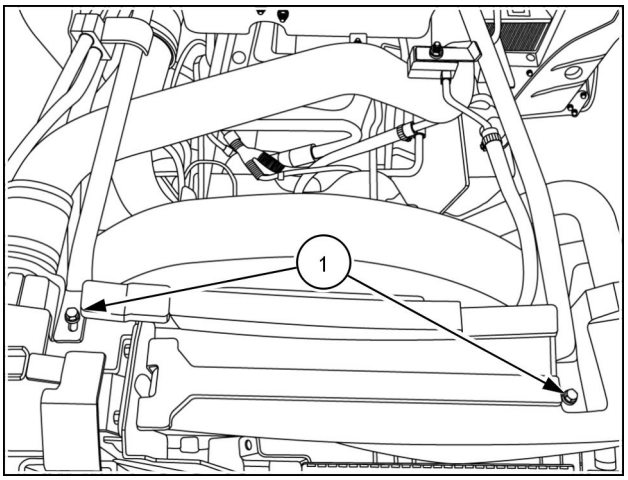
RCPH10CCH903AAB 9

14. Loosen the clamps **(1)** and disconnect the engine coolant outlet **(2)** and inlet hoses **(3)**.



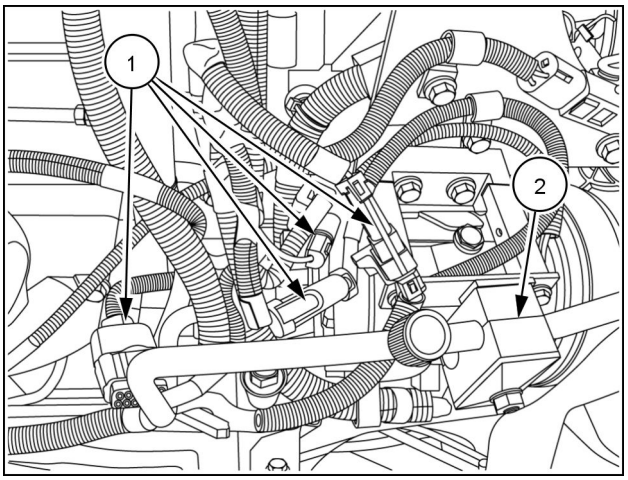
RCPH10CCH902AAB 10

15. Remove the bolts **(1)** securing the line/harness bracket to the cooler assembly.



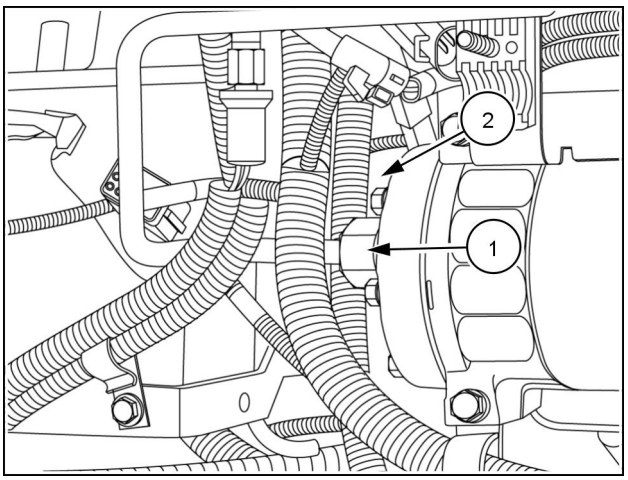
RCPH10CCH057BAB 11

16. On the right hand side at the A/C compressor, disconnect the four harness connectors **(1)**. Remove the A/C line clamp **(2)**.



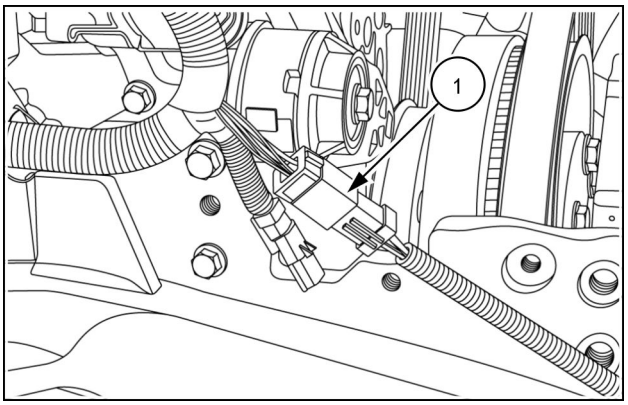
RCPH10CCH059BAB 12

17. Disconnect the high pressure **(1)** and suction **(2)** A/C lines from the compressor.



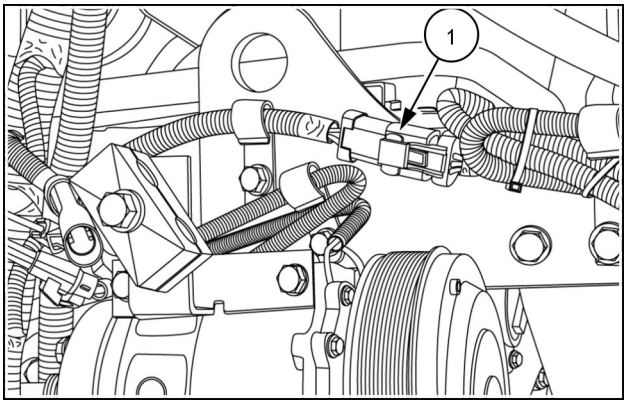
RCPH10CCH060BAB 13

18. If equipped, disconnect the harness connector **(1)** for the suspended axle.



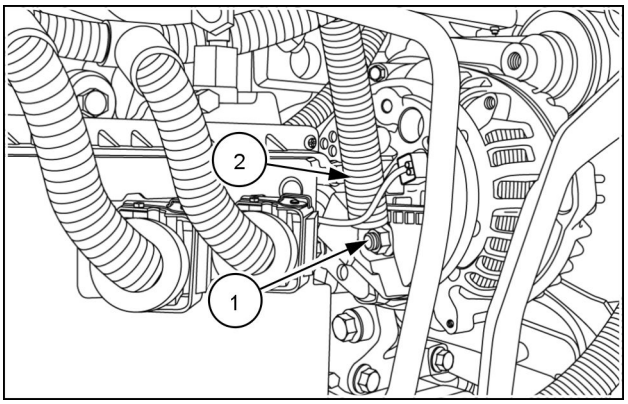
RCPH10CCH904AAB 14

19. Disconnect the harness connector **(1)** for the fan drive.



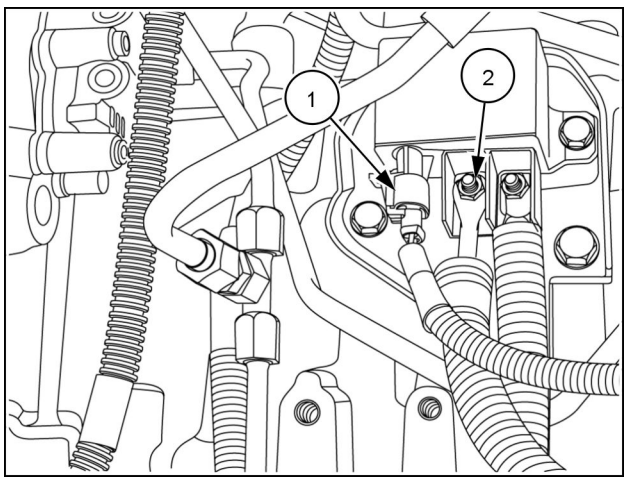
RCPH10CCH905AAB 15

20. Remove the nut **(1)** and disengage the alternator output cable **(2)**.



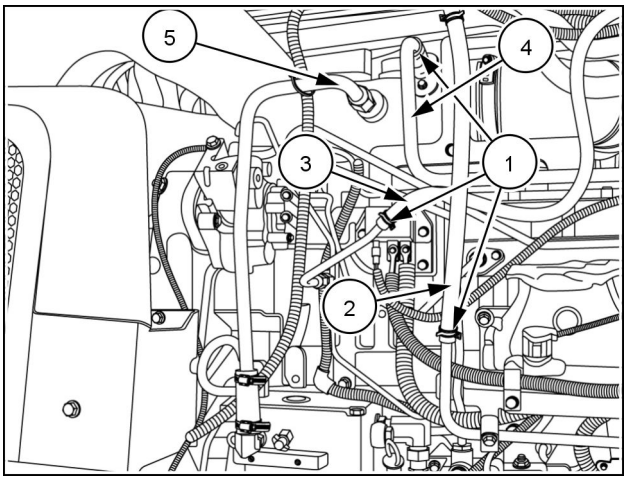
RCPH10CCH907AAB 16

21. Disconnect the harness connector **(1)** for the engine grid heater and the power supply cable **(2)**.



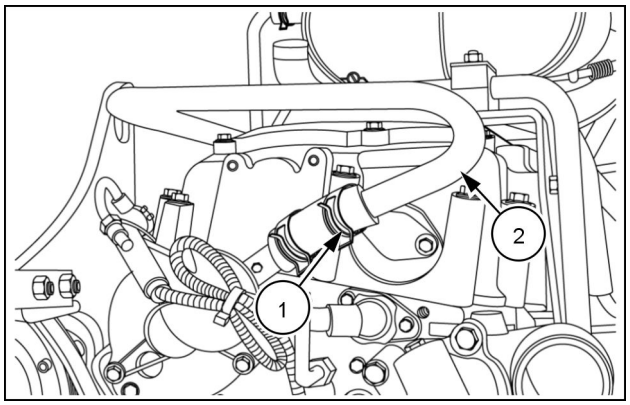
RCPH10CCH062BAB 17

22. Disengage the hose clamps **(1)** and disconnect the fuel supply **(2)** and return **(3)** hoses.
23. Disconnect the engine blowby recirculation line **(4)**.
24. If equipped, disconnect the air compressor inlet line **(5)**.



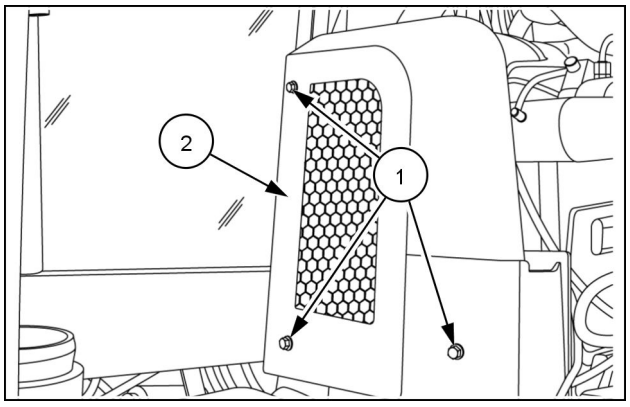
RCPH10CCH061BAB 18

25. At the front of the engine, disengage the clamp **(1)**, and remove the blowby recirculation tube **(2)** and set aside.



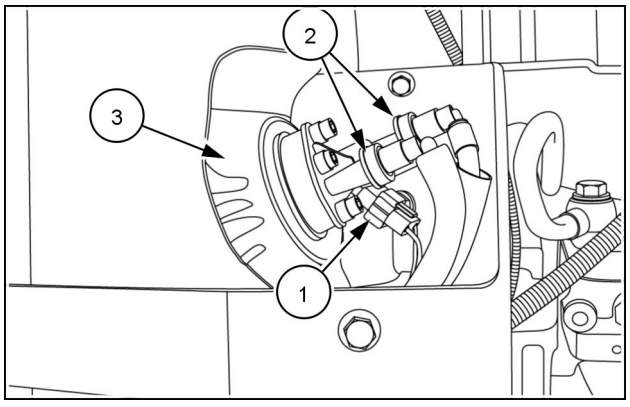
RCPH10CCH807AAB 19

26. Remove the attaching bolts **(1)**, and remove the exhaust shield **(2)** and set aside.



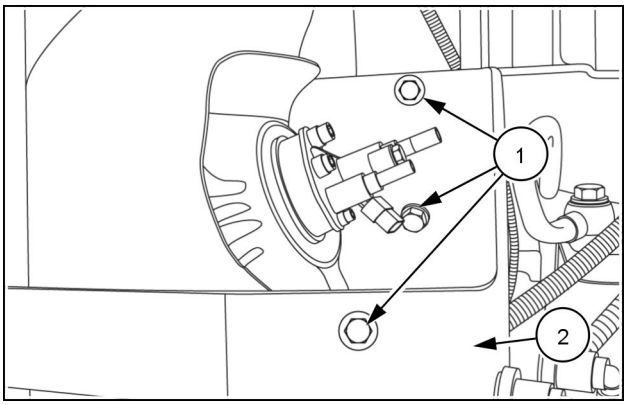
RCPH10CCH906AAB 20

27. Disconnect the harness **(1)** and supply and return hose connections **(2)** at the SCR dosing valve **(3)**.



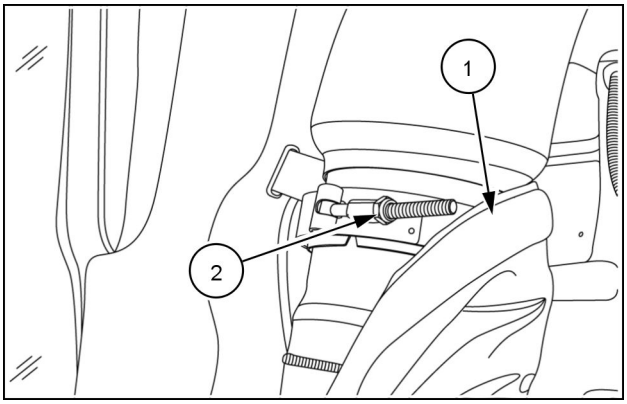
RCPH10CCH908AAB 21

28. Remove the bolts **(1)** for the exhaust shield bracket. Set the bracket **(2)** aside.



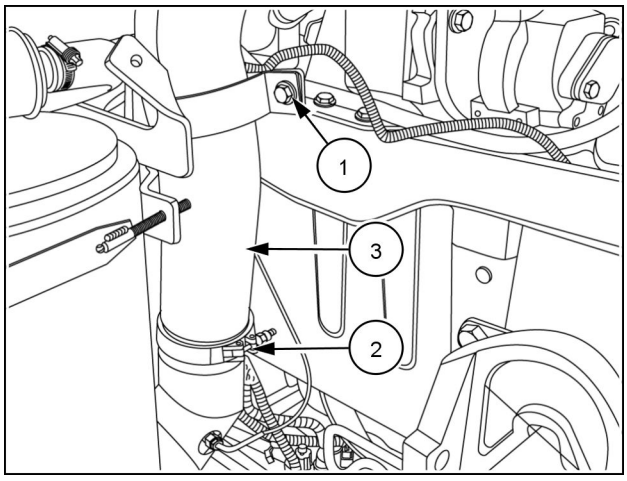
RCPH10CCH909AAB 22

29. Open the insulation blanket **(1)** and remove the exhaust pipe clamp **(2)**.



RCPH10CCH910AAB 23

30. Remove the support clamp bolt **(1)** and the lower pipe clamp **(2)**. Remove the pipe **(3)** and set aside.



RCPH10CCH063BAB 24