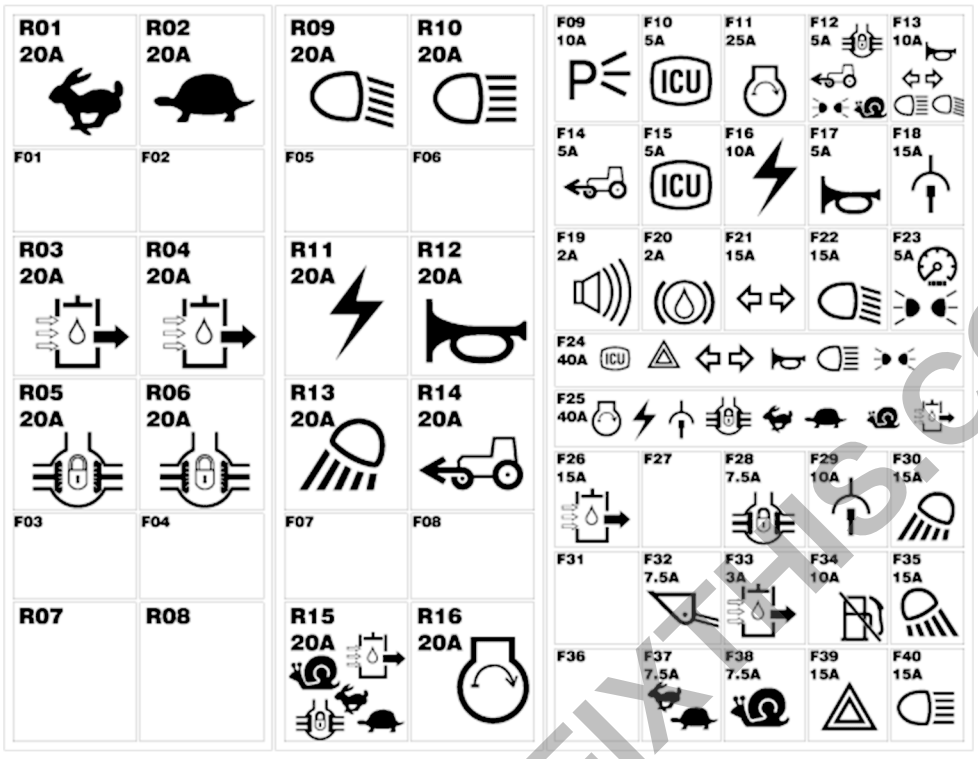


47545679D 4

Table 01: List of fuses and relays for models without cab

Reference	Component	Reference	Component
F01	not used	F29	**12 V** socket – **10 A**
F02	not used	F30	Front work light – **15 A**
F03	not used	F31	not used
F04	not used	F32	Front implement – **7,5 A**
F05	not used	F33	Hydraulic oil pressure sensor – **3 A**
F06	not used	F34	Fuel cut-off – **10 A**
F07	not used	F35	Rear work light – **15 A**
F08	not used	F36	not used
F09	Parking brake light – **10 A**	F37	High range and low range – **7.5 A**
F10	ICU - **5 A**	F38	Creeper – **7.5 A**
F11	Engine - **25 A**	F39	Emergency signaling – **15 A**
F12	Multifunction – **5 A**	F40	High beam – **15 A**
F13	Horn, turn signals, and lights – **10 A**	R01	High range relay – **20 A**
F14	AFWD – **5 A**	R02	Low range relay – **20 A**
F15	ICU - **5 A**	R03	Planter lock relay (when installed) – **20 A**
F16	Power – **10 A**	R04	Planter lock relay (when installed) – **20 A**
F17	Horn – **5 A**	R05	Differential lock relay – **20 A**
F18	**12 V** socket – **15 A**	R06	Differential lock relay – **20 A**
F19	Back-up audio signal – **2 A**	R07	not used
F20	Brake fluid pressure – **2 A**	R08	not used
F21	Turn signals – **15 A**	R09	Low beam relay – **20 A**
F22	Low beam – **15 A**	R10	High beam relay – **20 A**
F23	Tachometer and signal lights – **5 A**	R11	Main power relay – **20 A**
F24	Multifunction – **40 A**	R12	Horn relay – **20 A**
F25	Multifunction – **40 A**	R13	Front light relay - **20 A**

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WHEN THE WARNING LAMP LIGHTS

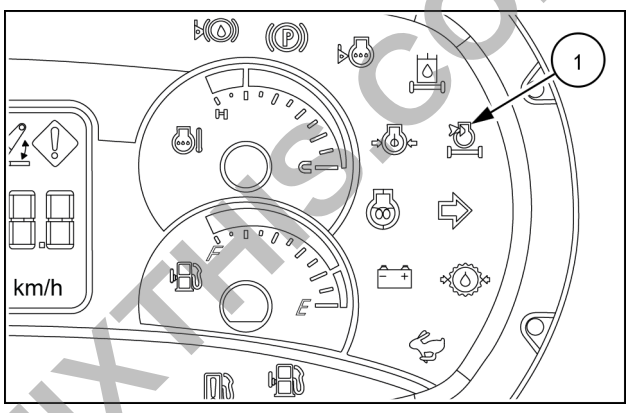
Air filter - Cleaning

⚠ CAUTION

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 minor or moderate injury.

C0049A

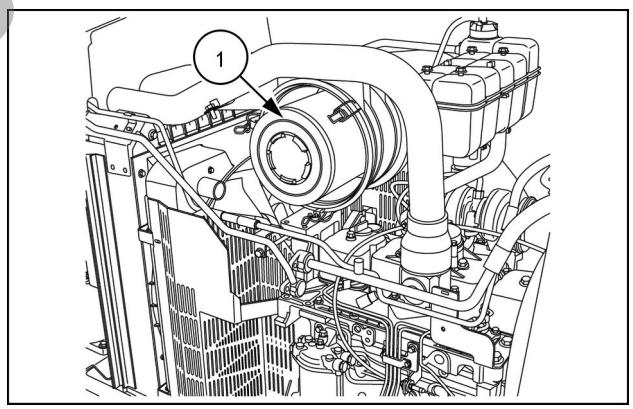
Clean the air filter whenever the indicator light **(1)** comes on. The indicator light indicates that there is a blockage in the filter.



CUIL14TR00125AA 1

Primary filter element (external)

1. Replace the filter when any of the following situations occur:
   - After 5 cleaning sessions.
   - When it appears to be damaged. Use a lamp to check whether the filter has been perforated or damaged.
   - Annually or every **600 h** (whichever occurs first).

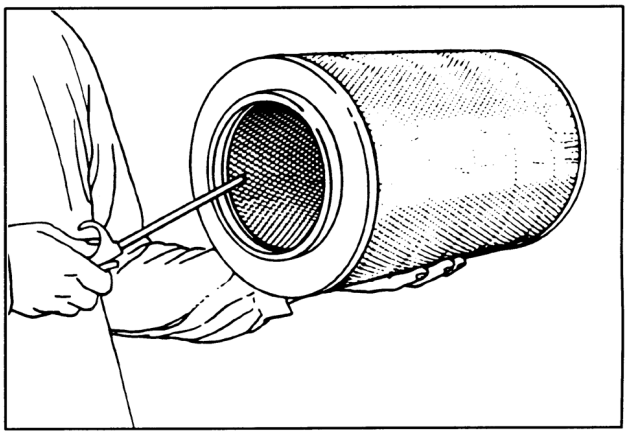


CUIL14TR00033AA 2

To clean the main element, proceed as follows:

2. Consult page **7-37** on the removal of the filtering elements.
3. Clean the outer filter element **(1)** with a jet of compressed air at a pressure lower than **5.9 bar** (**85.6 psi**).
4. Insert the end of the air jet into the element to blow the dust out.

NOTICE: *Never clean the element by striking it against a hard surface. It is preferable to strike it against the palm of your hand.*



BRAG12TRLUE1365 3

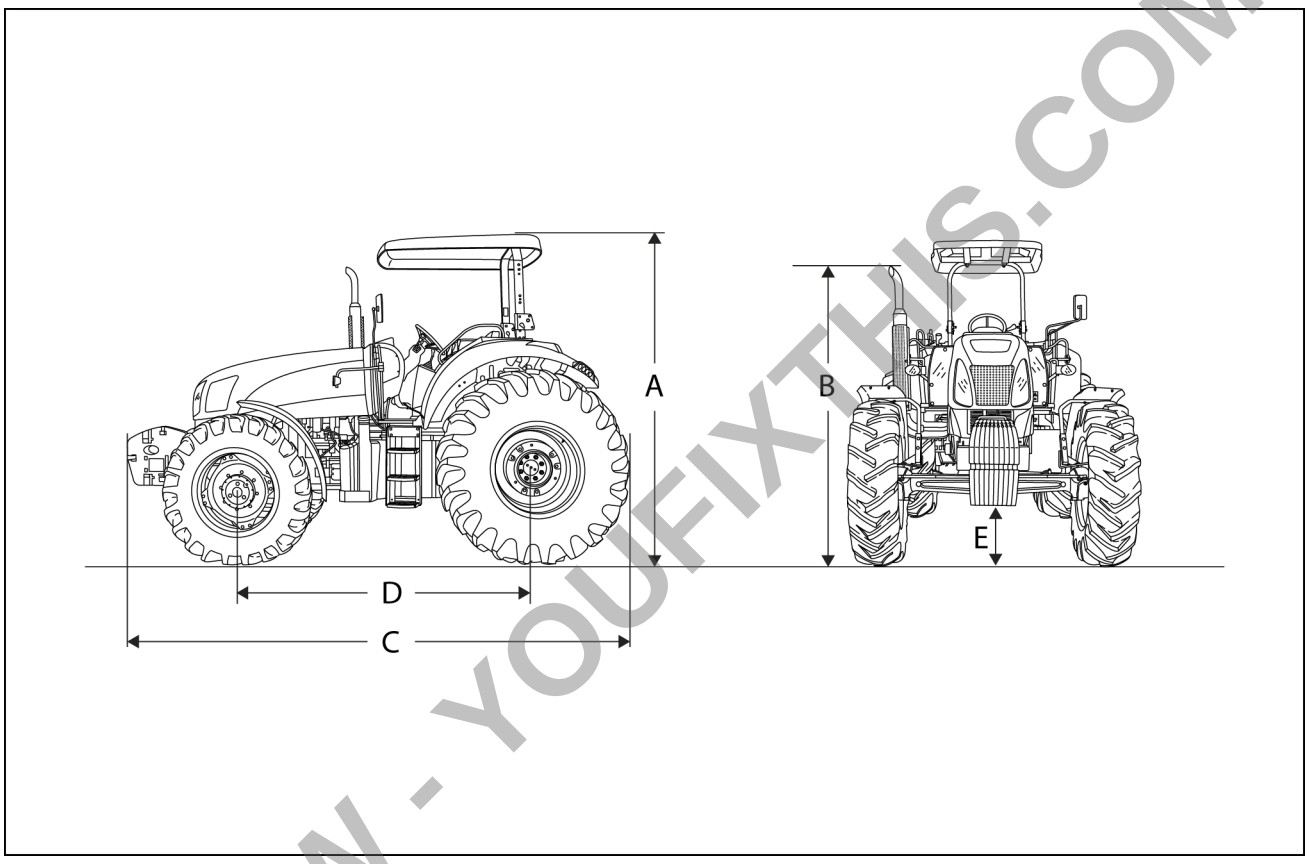
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9 - SPECIFICATIONS

Machine overall dimensions

The specifications on the following pages are for information and guidance purposes. For further information relating to your machine, see your NEW HOLLAND dealer.

Models without cab



CUIL14TR00498FA 1

Reference	Overall Dimensions	All models
A	Height to the top of the Roll Over Protective Structure (ROPS)	**2993.0 mm** (**117.8 in**)
B	Height to the top of the exhaust	**2937.0 mm** (**115.6 in**)
	Clearance under the drawbar	**485.0 mm** (**19.1 in**)
C	Total length (to end of lift)	**4935.0 mm** (**194.3 in**)
D	Wheelbase	**2620.0 mm** (**103.1 in**)
AND	Clearance under the front axle	**507.0 mm** (**20.0 in**)
Minimum turning radius - Left-hand side		**5.2 m** (**17.1 ft**)
Minimum turning radius - Right-hand side		**4.8 m** (**15.9 ft**)

Tyres		All models
The above dimensions are based on a standard machine with the following tires:	Frontal	14.9x28 R1
	Back	18.4x38 R1

NOTE: *The sizes of the above table may vary according to tire sizes and according to the options available on the machine.*

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MAINTENANCE CHART

Maintenance chart

Maintenance action	Change fluid	Lubrification	Check	Drain fluid	Cleanout	Replace	Adj.	Bleed	Charge	Page no.
WHEN THE WARNING LIGHTS COME ON										
Air filter – Cleaning					x					**7-14**
Drain the fuel system water separator				x						**7-16**
EVERY 10 HOURS OR DAILY										
Checking the engine oil level			x							**7-17**
Cleaning radiators					x					**7-18**
Engine coolant level			x							**7-19**
Battery					x					**7-20**
Air conditioning filter-drier – Check			x							**7-20**
Drain the fuel system water separator				x						**7-16**
INITIAL 50 HOURS										
Initial 50 hours			x							**7-23**
EVERY 50 HOURS										
Cab air filter					x					**7-24**
Cab air recirculation filter - Cleaning					x					**7-25**
Tyres and wheels			x							**7-26**
Grease points			x							**7-26**
Fuel system – Drain				x						**7-28**
Transmission hydraulic oil level – Check			x							**7-29**
Brake fluid reservoir – Check			x							**7-29**
EVERY 300 HOURS										
Engine oil & fiter				x						**7-31**
Fuel filters					x					**7-32**
Front axle oil – Check			x							**7-33**
Service brakes – Adjust					x					**7-33**
Belt – Check			x							**7-34**
Front axle grease fittings – Lubricate				x						**7-34**
Parking brake-Adjust					x					**7-35**
Activated charcoal filter – (when present)					x					**7-36**
EVERY 600 HOURS										
Engine air filter – Outer element					x					**7-37**
Cab air filter - Replace					x					**7-37**
Cab air recirculation filter					x					**7-38**
Transmission / hydraulic oil filters					x					**7-38**
Engine Valve clearance					x					**7-40**
Fuel injection system - Cleaning										**7-40**
Wheel hub – Change fluid				x						**7-41**
EVERY 1200 HOURS OR ANNUALLY										
Fuel injectors – Check			x							**7-42**
Rear axle oil reservoir				x						**7-42**
Front axle oil – Change				x						**7-43**
Engine air filter – Inner element					x					**7-43**
Autopilot valve – Replace filter					x					**7-44**
EVERY 1200 HOURS OR 2 YEARS										
Engine coolant replacement			x							**7-45**
GENERAL MAINTENANCE										

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6 - WORKING OPERATIONS

GENERAL INFORMATION

Traction Front Wheel Drive (FWD)

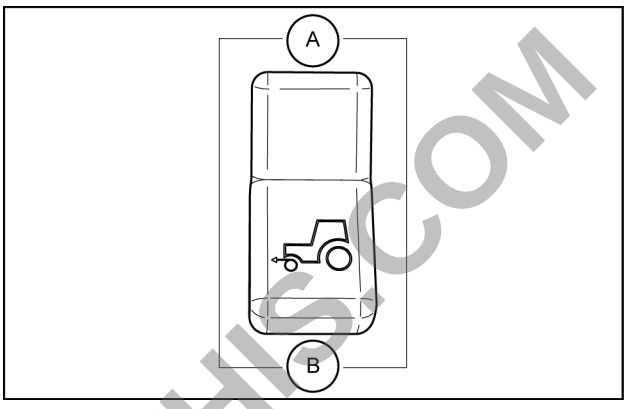
Auxiliary Front-Wheel Drive (AFWD) significantly improves traction in difficult conditions. AFWD is designed to be turned on or off with the machine stationary or in motion.

The front wheel drive is activated by the switch **(1)**located on the right-hand side of the console.

Position the switch in the **(B)** position to engage the AFWD. In this mode, the AFWD will remain permanently engaged. To turn it off, place the switch in the **(A)** position.

The green AFWD symbol will appear on the instrument panel when it is activated.

Keep the machine at the same speed when going up or down a slope.



DCUTLBRNE005S6A 1

⚠ WARNING

Loss of control hazard!
Machines with four-wheel drive engaged or disengaged should not exceed 50 km/h (31 mph) where permitted. Over speeding by towing or coasting downhill with clutch depressed or transmission in neutral may cause loss of control, personal injury to the operator or bystanders, or mechanical failure.
Failure to comply could result in death or serious injury.

W0454A

NOTICE: *To avoid excessive tire wear when riding on roads or hard surfaces, it is recommended that you turn off the front wheel drive.*

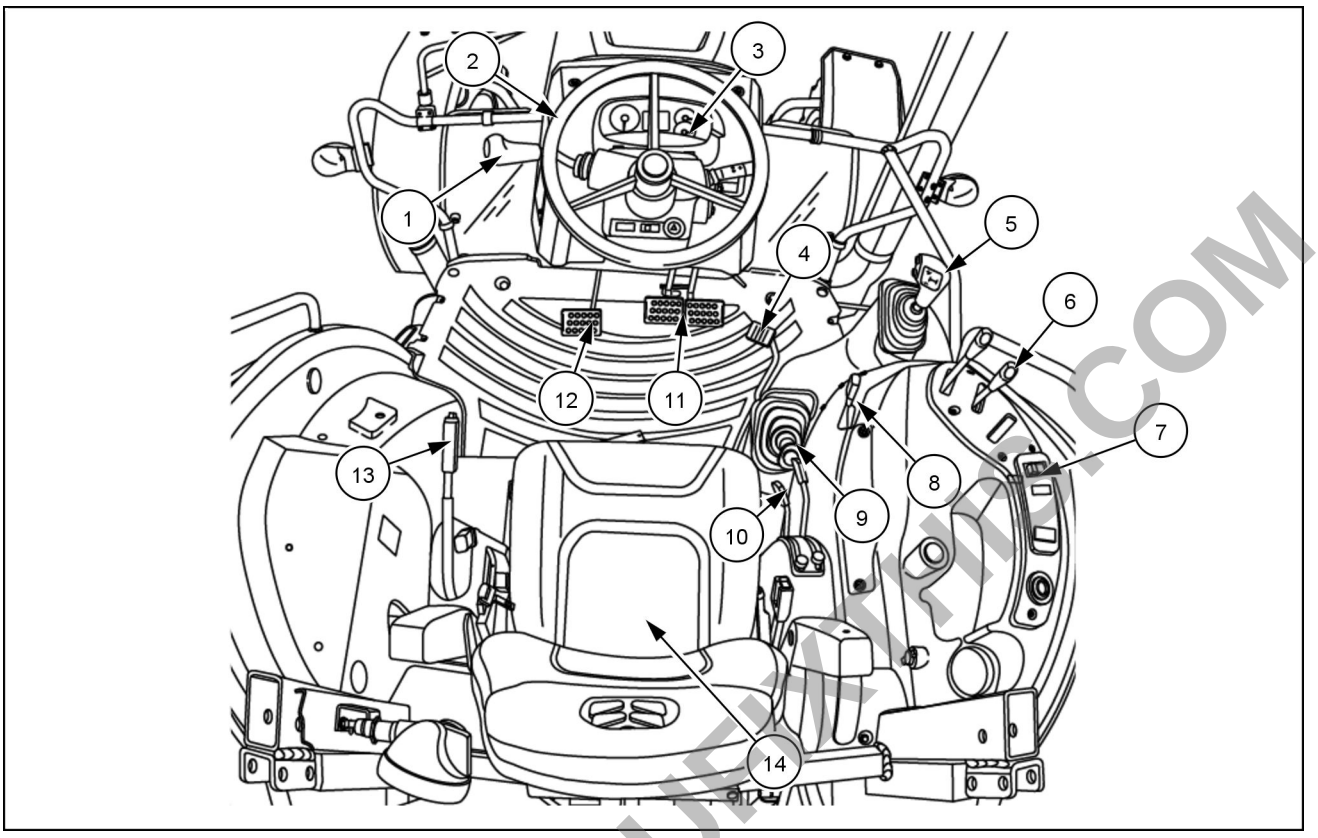
NOTICE: *The front and rear tires of a front-wheel drive tractor have been carefully matched to offer optimum traction. Always replace the tires for others of the same size as the originals, preferably of the same size and same brand. Any mistake will result in quick tire wear and/or serious damage to the transmission components. If you are in any doubt, see your NEW HOLLAND dealer.*

NOTE: *The AFWD is activated automatically even with the switch in the **(A)** position, if, at a certain speed, the brake pedals are pressed with the coupling pin engaged. The AFWD is deactivated automatically when the operator releases the brake pedals.*

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Platform - Overview



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Item	Description	Item	Description
(1)	Inversion lever	**(8)**	Hand throttle
(2)	Steering wheel	**(9)**	Range lever
(3)	Dashboard	**(10)**	Hydraulic system levers
(4)	Foot throttle pedal	**(11)**	Brake pedals
(5)	Main gear lever	**(12)**	Clutch pedal
(6)	Remote control valve levers	**(13)**	Parking Brake
(7)	Console switches	**(14)**	Operator’s seat

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5 - TRANSPORT OPERATIONS

PREPARING FOR ROAD TRANSPORT

Machine loading

Transport the machine in such a way that all of the wheels are firmly supported on the trailer or truck base. Securely chain the machine to the transporter.

NOTICE: *Never install chains or straps around the transmission drive shaft, steering cylinders, front wheel drive shaft, or other components that may be damaged through contact with the chain, strap, or with a heavy load.*

Use the drawbar or drawbar hanger for a rear tie down point.

NOTICE: *Cover the exhaust outlet so that the wind does not rotate the turbocharger (if fitted), as this damages the bearings. Turbocharger turbine freewheeling (turning without engine running) must be avoided since lubrication will not be provided to the turbocharger bearings.*

RECOVERY TRANSPORT

Towing the machine

⚠ WARNING

Loss of control hazard!
The brakes on your machine are hydraulically power-assisted. The brakes will still function with the engine off, but you must press harder on the pedal.
Failure to comply could result in death or serious injury.

W0442A

⚠ WARNING

Loss of control hazard!
Do not tow the machine faster than 8 kph (5 mph). The steering is much slower and steering wheel effort is much greater without the engine running.
Failure to comply could result in death or serious injury.

W0076A

NOTICE: *The tractor should only be towed a short distance, such as out of a building. Do not tow on roads or as a means of transport. If you need to tow the machine, put the transmission in neutral and keep the engine running. If not, the transmission could be seriously damaged.*

Use a strong chain when towing the machine. Only tow the machine from the rear using the drawbar, rear tow hitch, or three-point hydraulic lift. Tow the machine from the front using the tow pin on the front weights or the front support. There must be an operator in the machine to steer and brake.

⚠ WARNING

Hazard to bystanders!
Do not use cables or rope to tow the machine. If the cable or rope breaks or slips, it may whip back with enough force to cause serious injury. When using a chain, attach the chain with the hook's open side facing UP. If the hook slips, it will drop down instead of flying up.
Failure to comply could result in death or serious injury.

W0441A

To avoid damaging the transmission or other components that turn but are not lubricated during towing, observe the following:

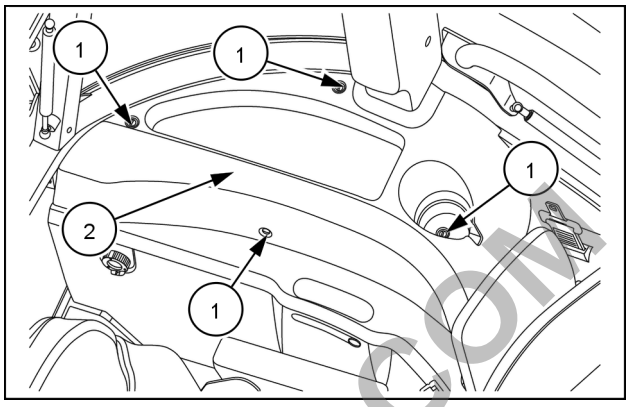
- Only tow a short distance
- Keep the speed below **8 km/h** (**5 mph**)
- If possible, run the engine to provide lubrication and power steering.

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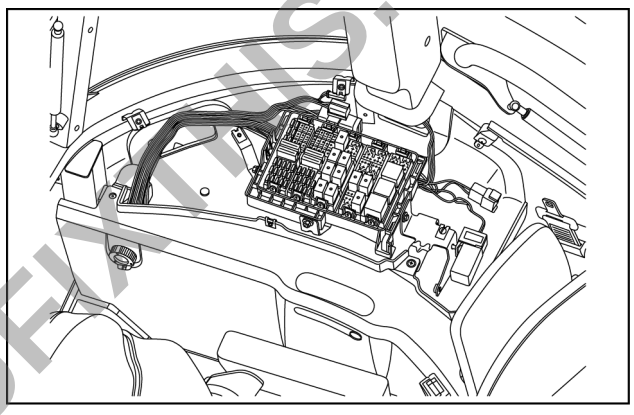
Fuse and relay box - Check Cab Models

1. The fuse compartment is located below the left-hand side console. To access the fuse compartment, remove the four bolts **(1)**.
2. Remove the top **(2)** of the left-hand console.

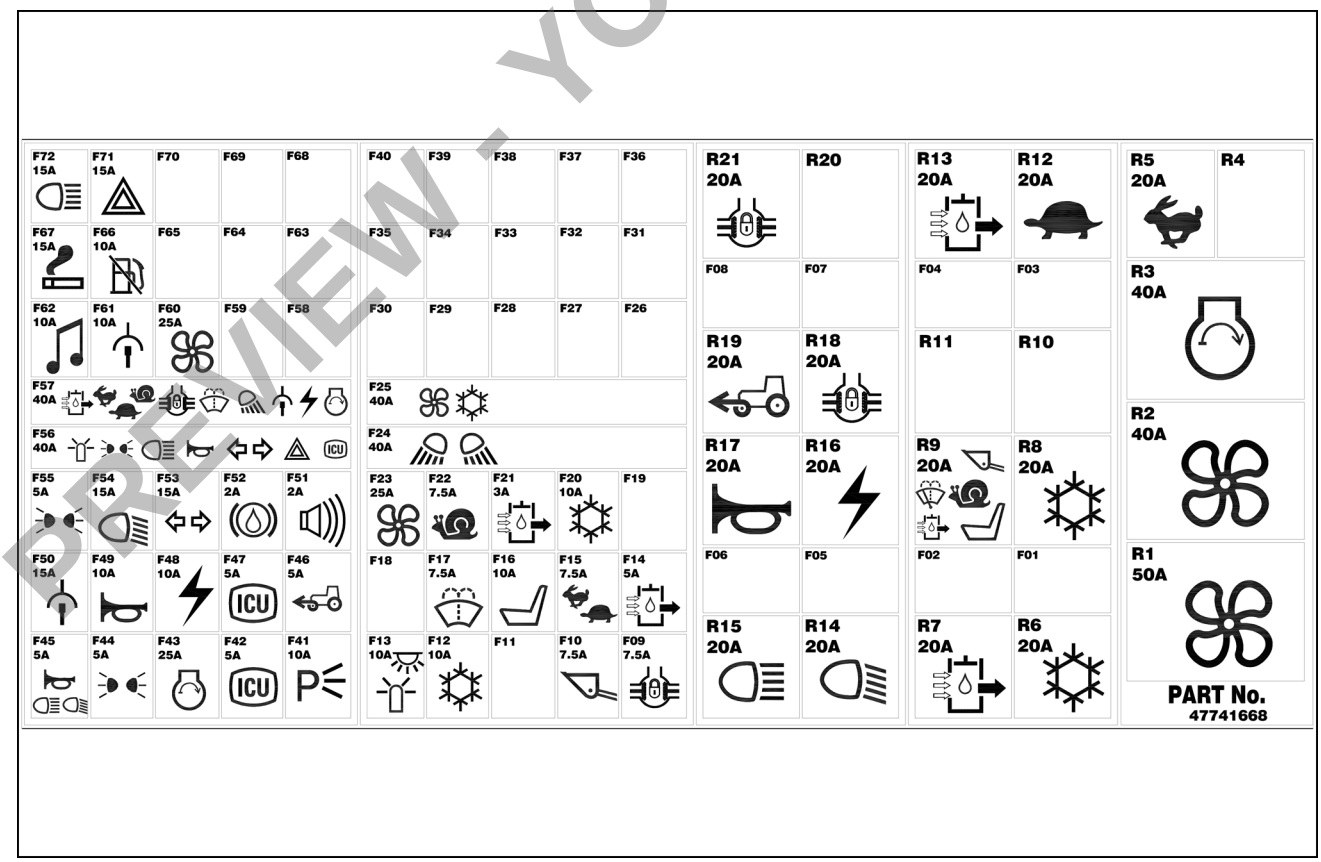


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3. Check the position of each fuse and relay according to the table below.



CUIL14TR00056AA 2



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Drain the fuel system water separator

⚠ WARNING

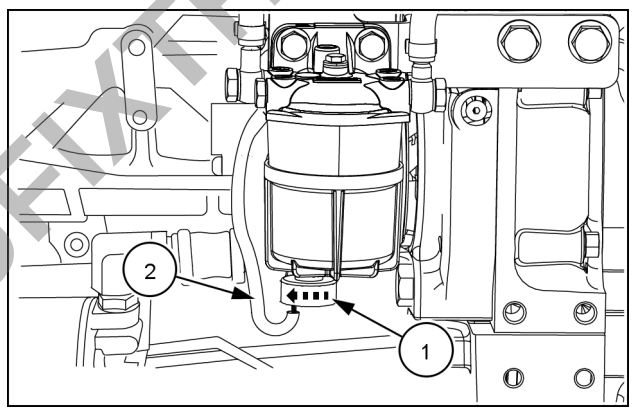
Fire hazard!
When handling diesel fuel, observe the following precautions:
1. Do not smoke.
2. Never fill the tank when the engine is running.
3. Wipe up spilled fuel immediately.
Failure to comply could result in death or serious injury.

W0099A

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

If the symbol appears on the instrument cluster, this indicates the presence of water in the fuel sludge deposit. Drain the fuel filter and the sludge assembly by following the procedures below:

1. Place a suitably sized container under the component.
2. To loosen the drain plug **(1)**, disconnect the sensor **(2)** to enable the plug to rotate.
3. Open the filter/sludge assembly drain plug by turning the collar **(1)** approximately **180 °**. The contaminated fuel will drain.



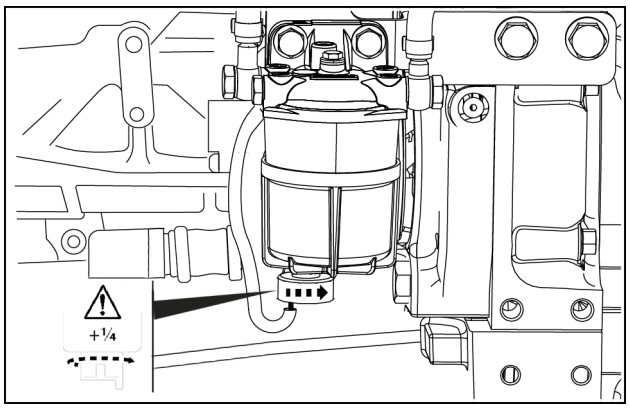
CUIL15TR00616AA 1

4. Leave the contaminated fuel to drain until the clean fuel starts to be released, then close the drain plug.

NOTICE: *When opening the drain plug, turn it until it touches the filter and then turn it a further quarter turn. Never tighten the drain plug too much.*

5. Connect the sensor.
   The fuel system is self-bleeding and does not require priming after draining the sludge. If you need to bleed the fuel system, see page **7-51** for further information.

NOTE: *Also see page **7-32** for further information on the pre-filter and the fuel system water separator.*



CUIL15TR00615AA 2

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Weight from the machine

Table 01: Machines with a cab

Machine weight	All models
Total mass	**4800.0 kg** (**10582.2 lb**)

Table 02: Machines without a cab

Machine weight	All models
Total Weight	**4500.0 kg** (**9920.8 lb**)

NOTE: *The aforementioned weights are based on a standard machine with an empty fuel tank, and no operator, ballast or any other optional equipment.*

Capacities

System	Quantity	Recommended fluid	NEW HOLLAND specification	International specification
Cooling system Without cab With cab	 **15.0 L** (**4.0 US gal**) **18.0 L** (**4.8 US gal**)	**NEW HOLLAND AMBRA AGRIFLU**	NH 900 A	ASTM D 6210 type 1-FF
Air-conditioning system Refrigerant Compressor oil	 **1200 g** **200 cm³**	**CNH REFRIGERANT HFC-134A** Sandem SP10	 – –	 – –
Windshield washer reservoir	–	Water and AREXONS DP1 liquid	–	–
Fuel tank	110 models: **150.0 L** (**39.6 US gal**) Other models: **220 L** (**58 US gal**)	Diesel oil or Biodiesel B **(B7)** – Brazil	–	–
Engine - With filter	**10.0 L** (**2.6 US gal**)	**NEW HOLLAND AMBRA MASTERGOLD™ HSP ENGINE OIL SAE 10W-30**	NH 330 H	API CI-4, CH-4, CG-4, CF-4, CF/SL
		NEW HOLLAND AMBRA MASTERGOLD™ HSP ENGINE OIL SAE 15W-40	NH 324 H	API CH-4, CG-4, CF-4, CF/SL
Front axle Housing Final reducers (each)	 **6.2 L** (**1.6 US gal**) **1.5 L** (**0.4 US gal**)	**NEW HOLLAND AMBRA MULTI G™ HYDRAULIC TRANSMISSION OIL**	NH 410 B	SAE 10W-30, API GL4, ISO VG 32/46
Mechanical transmission	**59.0 L** (**15.6 US gal**)			
Power shuttle transmission	**72.0 L** (**19.0 US gal**)			
Brake system	**1.0 - 1.5 L** (**2.1 - 3.2 US pt**)	**NEW HOLLAND AMBRA BRAKE LHM**	NH 610 A	ISO 7308
Grease fittings	–	**NEW HOLLAND AMBRA GR 75 MD**	NH 710 A	NLGI 2

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Maintenance action	Cleanout	Drain fluid	Check	Lubrification	Change fluid	Charge	Bleed	Adj.	Replace	Page no.
Windshield washer reservoir – Check			x							**7-48**
Work lights and headlights – Adjust								x		**7-49**
Air conditioning – Check			x							**7-49**
Bleeding the brake system							x			**7-50**
Fuel injection system - Bleed							x			**7-51**
Lamps and bulbs – Replace									x	**7-52**
Battery – Check			x							**7-54**
Fuel tank neck filter - Cleaning	x									**7-54**
Fuse and relay compartment – Check Models without cab			x							**7-55**
Fuse and relay compartment – Check Models with cab			x							**7-58**
Fuse and relay compartment – Check Models with cab and with Auto Guidance			x							**7-61**
Cab – Check			x							**7-63**
Protecting the electronic and electrical systems during welding or battery charging							x			**7-64**

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Differential lock system

⚠ DANGER

Steering is difficult with the differential lock engaged. An accident could result.
During field operation, use the differential lock for traction improvement but release for turning at row end. Do not drive at high speeds or on roads with the differential lock engaged.
Failure to comply will result in death or serious injury.

D0023A

The differential allows the drive wheels to rotate at different speeds when the tractor is turning.

It is advisable to lock the differential in the following situations:

- When ploughing, to prevent the wheel that is not in the furrow from slipping;
- When one of the drive wheels is on uneven, muddy or slippery ground and tends to slip.

NOTICE: *Only lock the differential in the event of one of the two wheels slipping excessively. Do not keep the differential locked unnecessarily as this wastes power and can cause damaging stresses in the transmission system, tyre wear and steering problems.*

To activate differential locking, put the switch into position **(C)**. When the switch is released, it returns to the middle position B.

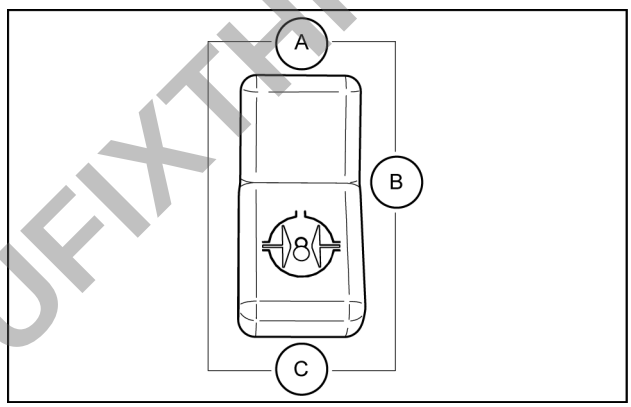
NOTE: *If the switch is in position **(A)**, to activate the differential lock it is necessary to move onto the middle position **(B)** and put it into position **(C)**.*



Differential lock engagement is highlighted with the amber warning light on the instrument panel coming on.

To disengage the differential lock, reduce the tractor speed and put the switch into position **(A)**. The switch remains held in position **(A)**.

NOTE: *For reasons of safety the differential lock is disengaged permanently when pressing the brake pedals separately or coupled.*



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