4 - OPERATING INSTRUCTIONS

Commissioning the unit

Basic operating safety rules

⚠ WARNING

Inhalation/asphyxiation hazard!
Make sure there is proper ventilation before starting the engine.
Failure to comply could result in death or serious injury.

W0091A

⚠ WARNING

Unexpected machine movement!
Before starting the engine, move all operating controls to neutral or park lock position. This prevents accidental movement of the machine or start up of power-driven equipment.
Failure to comply could result in death or serious injury.

W0302A

⚠ WARNING

Hazard to bystanders!
ALWAYS make sure the work area is clear of bystanders and domestic animals before starting this procedure. Know the full area of movement of the machine. Do not permit anyone to enter the area of movement during this procedure.
Failure to comply could result in death or serious injury.

W0245A

⚠ WARNING

IMPROPER OPERATION OF THIS MACHINE CAN CAUSE DEATH OR SERIOUS INJURY.
MAKE SURE THAT EVERY OPERATOR:
-is instructed in the safe and proper use of this machine.
-reads and understands the operator's manual for this machine.
-reads and understands ALL safety signs on the machine.
Failure to comply could result in death or serious injury.

W0188A

⚠ WARNING

Avoid injury!
Carefully read and observe all the precautionary advice contained in this manual.
Failure to comply could result in death or serious injury.

W0044A

⚠ WARNING

Misuse hazard!
Before starting the engine, make sure you are fully aware of the location and the function of each control.
Failure to comply could result in death or serious injury.

W0226A

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Maintenance planning

Maintenance chart

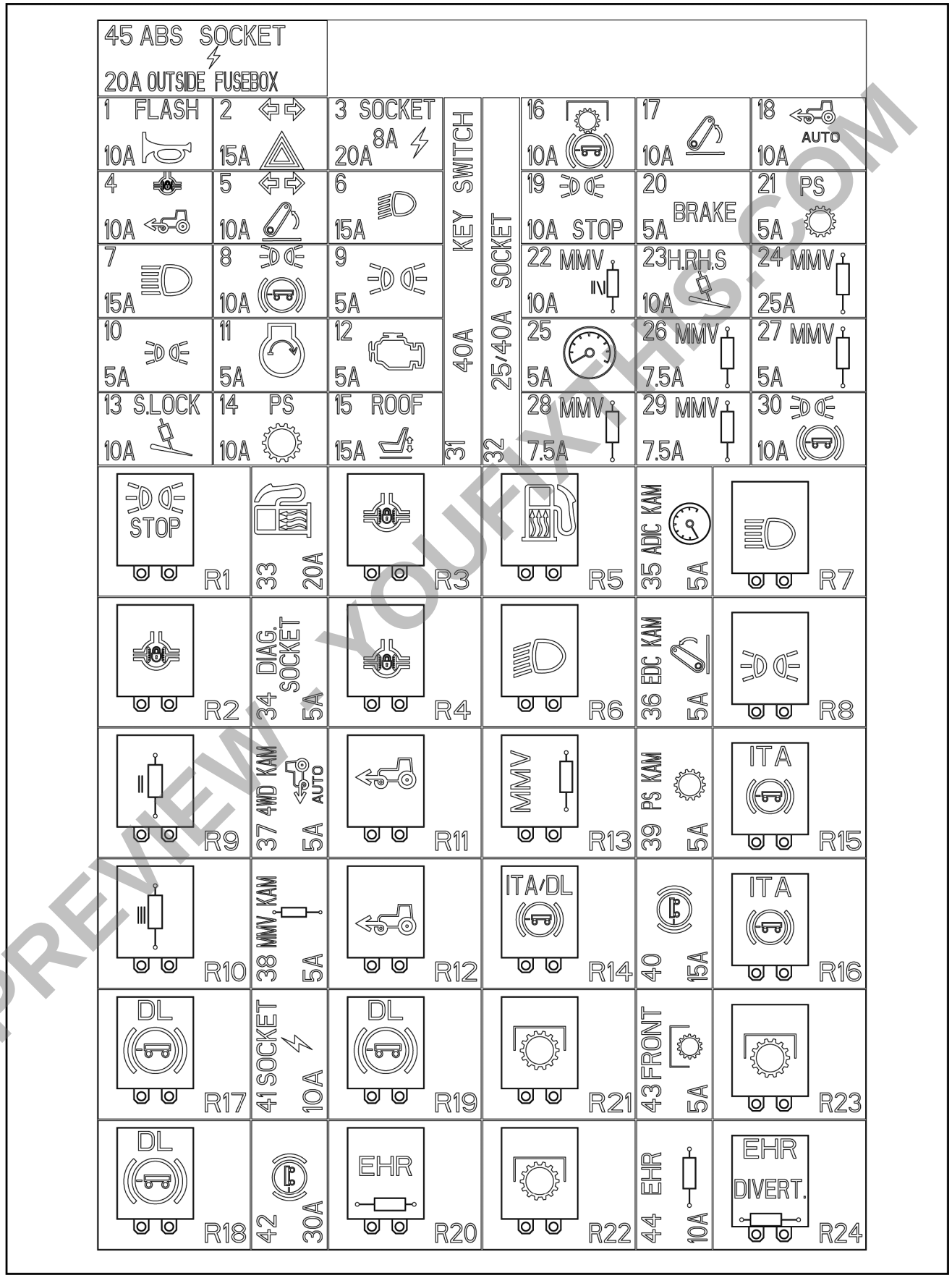
Maintenance action	Check	Adjust	Cleaning	Replace	Level top off	Drain fluid	Change fluid	Lubrication	Grease	Test	Tightening	Page Nr.
As required												
Windshield washer fluid tank - Check	x											7-18
Road lights - Adjust		x										7-19
Clutch pedal - Adjust		x										7-20
Parking brake-Adjust		x										7-21
Drive line oil cooler - Check	x											7-22
Radiator and intercooler - Check	x											7-23
Radiator and intercooler - Clean			x									7-24
Tires — Pressure check and general conditions	x											7-25
Engine air cleaner outer element - clean			x									7-26
Engine lubrication system - Replace oil				x								7-27
Fuel heat exchanger - Clean			x									7-29
Expansion tank - Level top off				x								7-30
Cab climate control - Check	x											7-31
Category 2 cab air cleaner - Check	x											7-32
Category 4 cab air cleaner - Check	x											7-33
On display of an alarm message												
Fuel filters - Fluid draining						x						7-34
Brake fluid - Level make up					x							7-36
Expansion tank - Coolant level check	x											7-37
Engine lubrication system - Check	x											7-38
Category 4 cab air cleaner - Replace				x								7-39
Air cleaner - Clean			x									7-40
Every 10 hours or daily												
Engine lubrication system - Check	x											7-41
Expansion tank - Check expansion tank fluid level	x											7-42
Air cleaner - Check	x											7-43
Brake pedals - Coupling pin check	x											7-44
Fuel filters - Glass pre-filter check	x											7-45
Initial 50 hours												
Maintenance - Tighten										x		7-46
Maintenance - Check	x											7-46
Maintenance - Replace				x								7-47
Maintenance - Clean			x									7-47
Maintenance - Test										x		7-47
Maintenance - Grease									x			7-48
Every 50 hours												
2WD steering cylinder									x			7-49
2WD-front axle pin									x			7-49
2WD right and left hand stub axle								x				7-50
Drive shaft - Grease									x			7-51
Front axle pin 4WD									x			7-52
Hydraulic lift and linkage - Grease									x			7-53
Rear three-point hitch - Grease									x			7-53

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Fuse and relay box - Overview

Fuse compartment and main relay - Version with cab



MOIL17TR02333HA 1

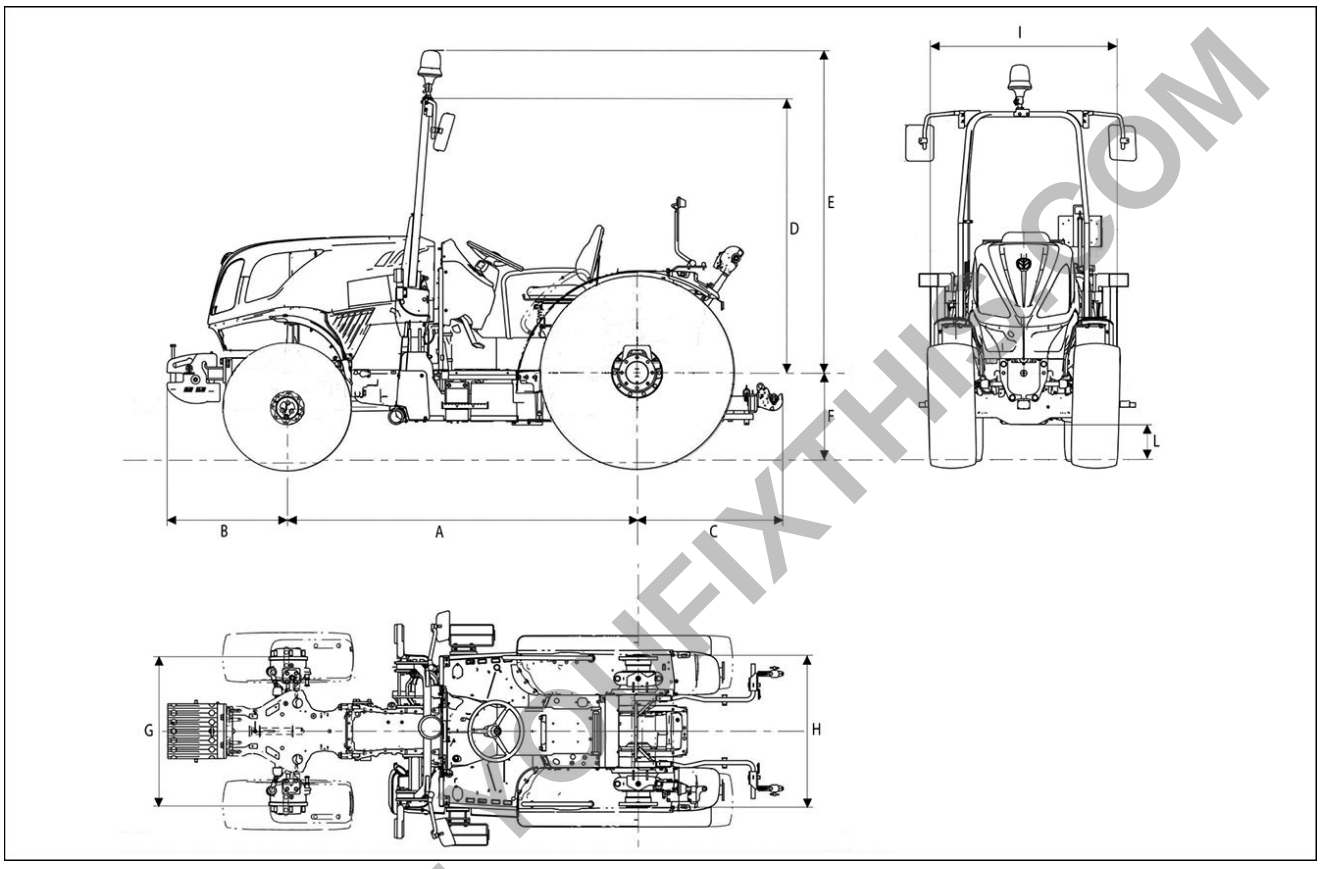
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9 - SPECIFICATIONS

Dimensions and weights

Dimensions of models without cab



MOIL17TR02347FA 1

Appearance dimensions		
(A)	2WD	2159.0 mm (85.0 in)
	4WD	2180.0 mm (85.8 in)
(B)		538.0 – 773.0 mm (21.18 – 30.43 in)
(C)		903.0 – 1040 mm (35.55 – 40.94 in)
(D)		1713 mm (67.4 in)
(E)		2011 mm (79.2 in)
(F)		/ mm (/ in)
(G)	2WD	904.0 – 1088.0 mm (35.59 – 42.83 in)
	4WD	835.0 – 1049.0 mm (32.87 – 41.30 in)
(H)		781.0 – 1261.0 mm (30.75 – 49.65 in)
(L)	2WD	203.0 – 278.0 mm (7.99 – 10.94 in)
	4WD	167.0 – 267.0 mm (6.57 – 10.51 in)
(I)		990.0 – 1194.0 mm (38.98 – 47.01 in)

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Refueling

⚠ WARNING

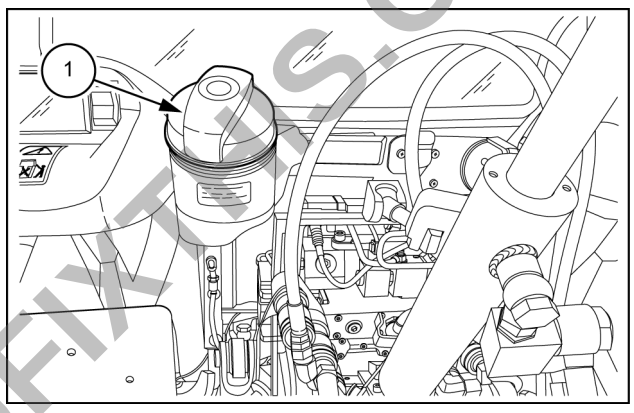
Fire hazard!
When handling diesel fuel, observe the following precautions:
1. Do not smoke.
2. Never fill the tank when the engine is running.
3. Wipe up spilled fuel immediately.
Failure to comply could result in death or serious injury.

W0099A

with diesel

When refuelling, observe the following precautions:

- If you are unsure about the fuel filtration system at the storage tank outlet, use a funnel with a fine mesh for refuelling.
- At the end of the daily work, fill the fuel tank to reduce condensation that could form during the night.
- Always stop the engine before removing the fuel tank cap **(1)**.
- Before refuelling, thoroughly clean the are around the fuel tank cap **(1)** to avoid contaminating the fuel.
- Before refuelling, remove the fuel tank cap **(1)** and place it on a clean surface.
- When refuelling, never fill the tank up to the edge of the filler pipe, to leave enough space for any expansion of the fuel.
- After refuelling, replace and tighten the cap **(1)** correctly.
- Clean and thoroughly dry any parts contaminated with fuel leaked out while refuelling.



MOIL15TR02255AB 1

NOTE: *If the fuel tank cap **(1)** is lost, replace it with an original cap of the same type.*

NOTE: *the tractor's fuel tank filler cap **(1)** has a vent. If lost or damaged, replaced the cap with an original spare part of the same type.*

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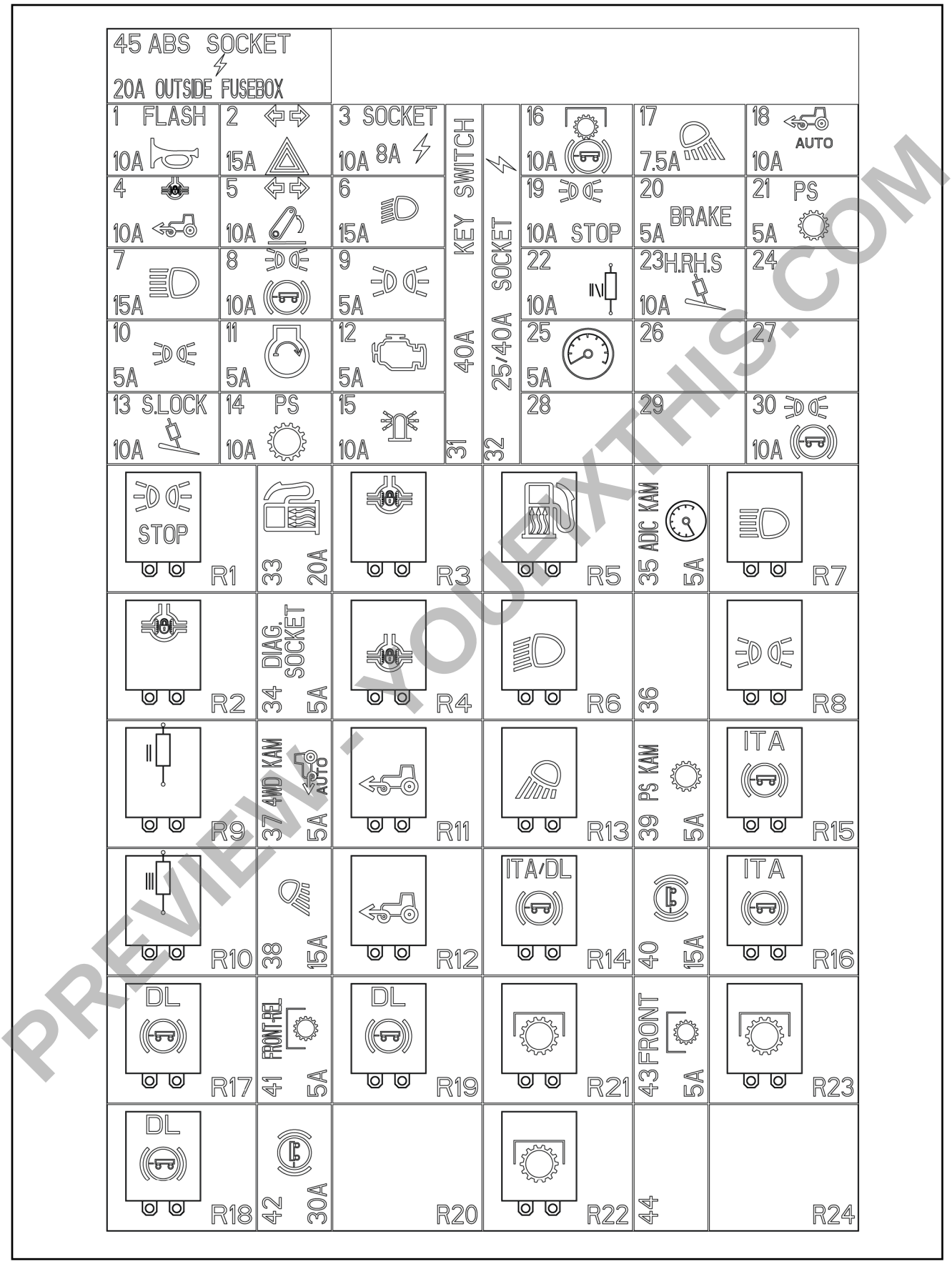
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Maintenance action	Check	Adjust	Cleaning	Replace	Level top off	Drain fluid	Change fluid	Lubrication	Grease	Test	Tightening	Page Nr.
Radiator and intercooler - Check	x											**7-54**
Every 100 hours												
Oil cooler and lines - Check coupling	x											**7-55**
Drive line oil cooler - Clean			x									**7-56**
Air-conditioning system capacitor - Clean			x									**7-58**
Cab air recirculation filter - Cleaning			x									**7-60**
Alternator drive belt - Check	x											**7-61**
Air conditioning compressor belt - Check	x											**7-62**
Category 2 cab air filter - Clean			x									**7-63**
Every 300 hours												
Hydraulic oil filter – Replace				x								**7-64**
Transmission oil filter - Replace				x								**7-65**
Drive line lubrication - Oil level check	x											**7-66**
Engine air cleaner - Cleaning			x									**7-67**
Brake system - Check	x											**7-68**
Front axle housing 4WD - Oil level check	x											**7-69**
Final drive line front axle housing 4WD - Check oil level	x											**7-70**
Front axle steering knuckles 4WD - Grease									x			**7-71**
Engine air cleaner - Cleaning			x									**7-67**
2WD front wheels									x			**7-73**
Every 600 hours												
Front and rear wheel nuts - Check tightening torque										x		**7-74**
Lubrication system - Replace oil and filter (Models without cabs)								x				**7-75**
Lubrication system - Replace oil and filter (Models with cabs)								x				**7-78**
Fuel filters - Replace				x								**7-80**
Fuel filters - Cleaning glass pre-filter			x									**7-83**
Air suction lines - Check	x											**7-85**
Front power take-off (PTO) – Check	x											**7-86**
Front power take-off (PTO) - Check oil breather	x											**7-87**
Clutch pedal - Check	x											**7-88**
Every 1200 hours or annually												
Category 2 cab air cleaner - Replace				x								**7-89**
Cab air recirculation filter - Replace				x								**7-90**
Engine air cleaners - Replace				x								**7-91**
Blowby recirculation filter - Replace				x								**7-92**
Rear wheel hub - Grease									x			**7-93**
Every 1200 hours or two years												
4WD front axle housing - Versions with brakes								x				**7-94**
4WD front axle housing - Versions without brakes								x				**7-94**
Final drive line front axle 4WD - Replace oil								x				**7-95**
Hydraulic oil system - Replace								x				**7-96**
Engine cooling system - Replace fluid (conventional fluid)								x				**7-97**
Front power take-off (PTO) – Replace oil								x				**7-102**
Alternator drive belt - Replace				x								**7-104**

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Fuse compartment and main relay - Version without cab

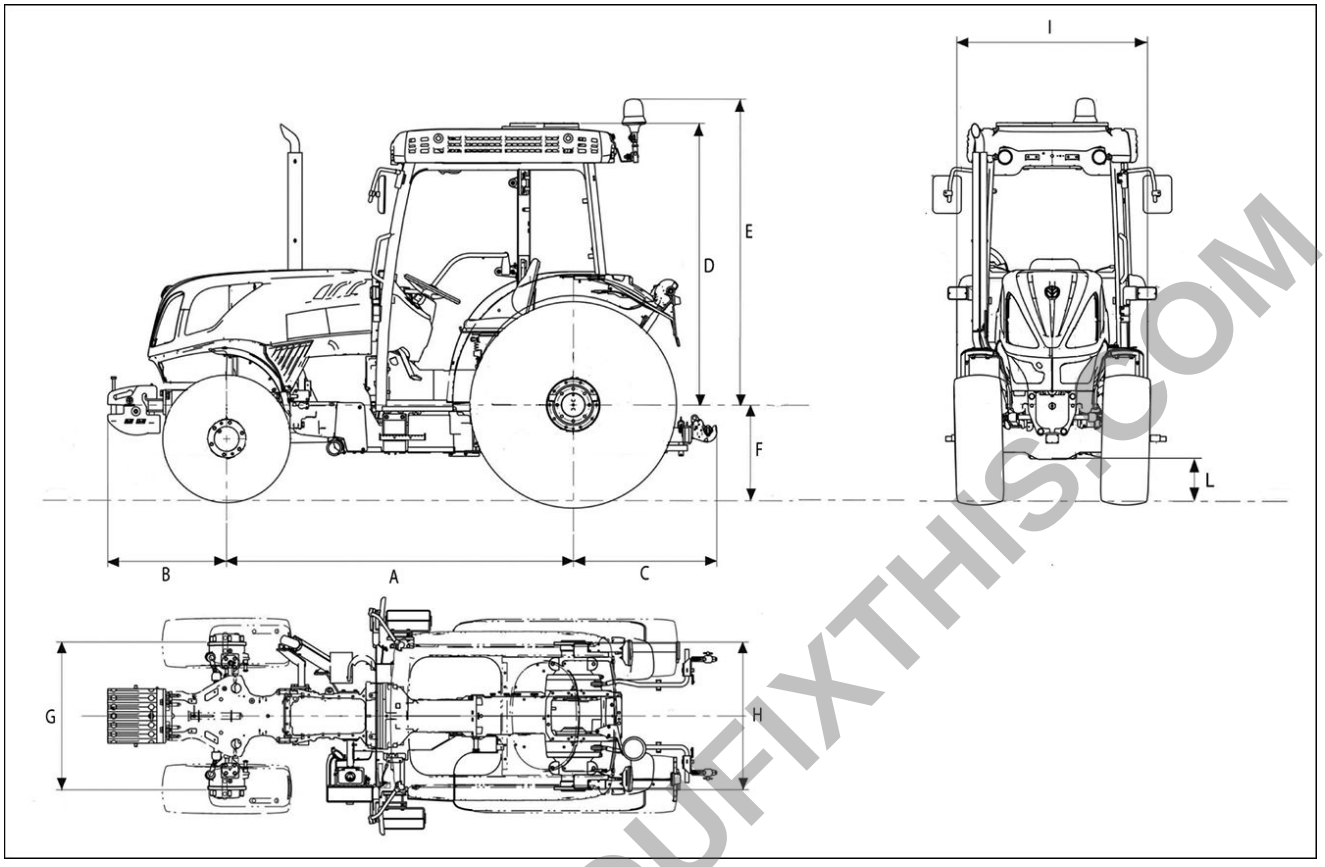


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Dimensions of models with cab



MOIL17TR02348FA 2

Appearance dimensions		
(A)	2WD	**2159.0 mm (85.0 in)**
	4WD	**2180.0 mm (85.8 in)**
(B)		**538.0 – 773.0 mm (21.18 – 30.43 in)**
(C)		**903.0 – 1040 mm (35.55 – 40.94 in)**
(D)		**1775.0 mm (69.9 in)**
(E)		**1926.0 mm (75.8 in)**
(F)		**/ mm (/ in)**
(G)	2WD	**904.0 – 1088.0 mm (35.59 – 42.83 in)**
	4WD	**835.0 – 1049.0 mm (32.87 – 41.30 in)**
(H)	2WD	**781.0 – 1261.0 mm (30.75 – 49.65 in)**
(L)	2WD	**203.0 – 303.0 mm (7.99 – 11.93 in)**
	4WD	**167.0 – 292.0 mm (6.57 – 11.50 in)**
(I)		**990.0 – 1193.0 mm (38.98 – 46.97 in)**

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Starting the unit

Engine starting system - Start

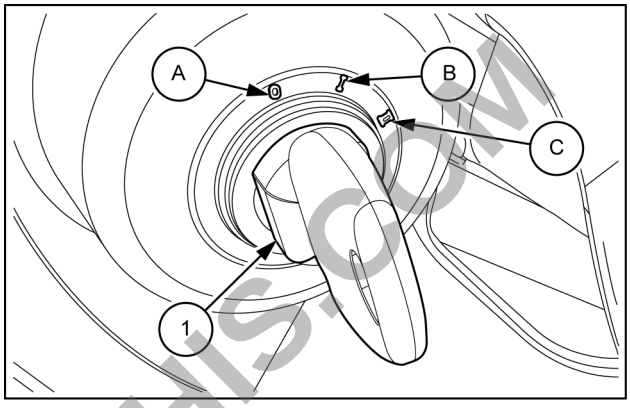
Starter switch

The ignition key switch **(1)** can be turned to the three following positions:

1. **(A)** - STOP position (“0”): no circuit powered by key, engine off, key can be removed.
2. **(B)** - Standby for engine start-up: electrical circuits powered by key; indicators, instrument cluster and pre-heating glow plugs all operational.
3. **(C)** - Engine start-up: power supply to ignition; engine starts up.

NOTE: *straight after the engine has been started and with the key in position* ***(C)****, when the key is released, it returns to position* ***(B)****, interrupting power supply to the ignition.*

NOTICE: *if, after the engine has been started, the key remains in position* ***(C)*** *or has moved slightly but is not in position* ***(B)****, immediately turn the engine off and contact your local dealer to avoid damaging the starter motor.*



DCUTLBRNE001S4A 1

Engine start-up

In order to start the engine, perform the following steps:

1. Engage the hand brake.
2. Disengage the parking brake, if present.
3. Press the left brake pedal.
4. Fully press the clutch pedal down, then put both the gear reversing mechanism and the power take-off in the neutral position.
5. Turn the ignition key switch to the start-up position (“I”) and wait for the cold start activation warning light to turn off (pre-heating glow plugs).
6. Turn the ignition key switch to the position (“II”).
7. With the engine on, leave the key in position.

NOTICE: *wait 15 seconds before turning the engine on so as not to engage the battery and the starter motor.*

NOTICE: *if the engine does not start on the first attempt, turn the key to the STOP position (“0”) and wait a few seconds before attempting to start the engine again.*

NOTICE: *if, after the tractor has been inactive for a long period of time, the engine does not start after three attempts, purge the fuel system.*

NOTICE: *if the engine does not start after six attempts, contact your local dealer. Do not carry out any more attempts so as not to drain the battery.*

NOTICE: *should any of the warning indicator lights come on, signalling a fault, stop attempting to turn the engine on and run checks.*

NOTICE: *before starting the vehicle, wait 30 seconds with the engine running at idle speed to ensure that all components are properly lubricated.*

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Maintenance action	Check	Adjust	Cleaning	Replace	Level top off	Drain fluid	Tightening	Test	Grease	Lubrication	Change fluid	Page Nr.
Air conditioning compressor belt - Replace				x								**7-105**
Every two years												
Receiver-drier - Replace				x								**7-106**
Brake fluid tank - Check	x											**7-107**
Fuel tank - Drain						x						**7-108**
Every 3600 hours												
Engine cooling system - Replace fluid (OAT fluid)										x		**7-109**
Brake fluid reservoir - Replace fluid										x		**7-114**
Electrical system												
Battery access and maintenance	x											**7-115**
Battery disconnect switch	x											**7-119**
Lights adjustment												
Road lights - Replace				x								**7-120**
Road lights - Adjust		x										**7-121**

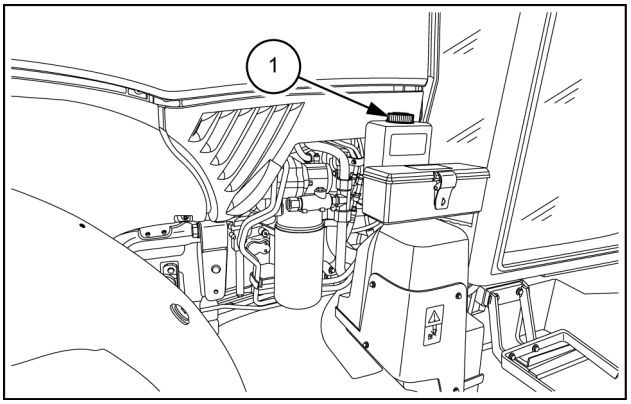
As required

Windshield washer fluid reservoir - Check

1. Thoroughly clean the area to prevent contamination of the parts.
2. Manually loosen the cap **(1)**.
3. Visually check the level of windshield washer fluid. If necessary, top up with the recommended fluid until you reach the correct level.
4. Manually tighten the plug **(1)**.

NOTICE: *if frequent top ups are required when the windshield washers are not used, contact the local dealer immediately.*

NOTICE: *if the vehicle is used at low temperatures, mix the anti-freeze fluid with the windshield washer fluid.*



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Weights

FRONT BALLAST	Weight of individual plate	Maximum total weight (4 plates)	Maximum total weight (6 plates)
2WD	**25.00 kg** (**55.12 lb**)	**100.00 kg** (**220.46 lb**)	**150.00 kg** (**330.69 lb**)
4WD front brakes	**25.00 kg** (**55.12 lb**)	**100.00 kg** (**220.46 lb**)	**150.00 kg** (**330.69 lb**)
4WD	**25.00 kg** (**55.12 lb**)	**100.00 kg** (**220.46 lb**)	**150.00 kg** (**330.69 lb**)

REAR BALLAST	Weight of individual ring	Maximum total weight
28” - 30” rims	**50 kg** (**110.2 lb**)	**200.00 kg** (**440.92 lb**) on 4 rings
24” rims	**32 kg** (**70.5 lb**)	**192.00 kg** (**423.29 lb**) on 6 rings

MINIMUM TRACTOR WEIGHT, 2WD, WITHOUT BALLAST	
WITHOUT CAB	**2475.0 kg** (**5456.4 lb**)
WITH CAB	**2675.0 kg** (**5897.4 lb**)

MINIMUM TRACTOR WEIGHT, 4WD, WITHOUT BALLAST	
WITHOUT CAB	**2675.0 kg** (**5897.4 lb**)
WITH CAB	**2775.0 kg** (**6117.8 lb**)

MAXIMUM TRACTOR WEIGHT, 2WD, WITHOUT BALLAST, WITH FRONT PTO AND LIFT	
WITHOUT CAB	**2800.0 kg** (**6547.7 lb**)
WITH CAB	**3000.0 kg** (**7165.0 lb**)

MAXIMUM TRACTOR WEIGHT, 4WD, WITHOUT BALLAST, WITH FRONT PTO AND LIFT	
WITHOUT CAB	**3000.0 kg** (**6613.9 lb**)
WITH CAB	**3100.0 kg** (**6834.3 lb**)

NOTE: *The minimum weight of the tractor is calculated: with fuel (full tank), with an operator weighing* ***75 kg*** *(****165.3 lb****), without ballast.*

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2 - SAFETY INFORMATION

Safety rules and 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 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.

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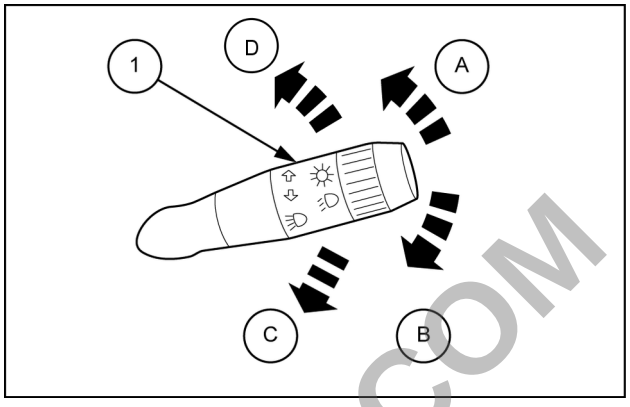
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OPERATION OF CONTROLS

Turn indicators

To signal the turning direction, proceed as follows:

1. Turn left: move the lever **(1)** forward to position **(A)**.
2. Turn right: move the lever **(1)** backwards to position **(B)**.



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Side lights

To activate the side lights turn the knob **(5)** until the marker **(4)** is opposite the symbol **(2)**.
The side lights and the instrument cluster lighting will come on.

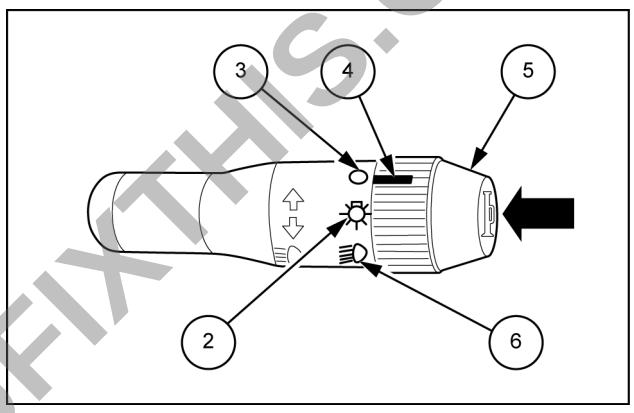
Dipped beam headlights

To activate the low beam headlights turn the knob **(5)** until the marker **(4)** is opposite the symbol **(6)**.

Main high beam

With the lights off or on, pull the stalk towards you to position **(1) (D)** to flash the full beam lights.
When the lever **(1)** is released, it automatically returns to its original position.

To turn the high beam headlights on permanently, push the lever **(1)** away from you to position **(C)**.



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Horn

To sound the horn, press the button on the tip of the stalk **(5)**, as shown in the figure.

NOTE: *when the mark **(4)** on the knob is opposite the symbol **(3)**, all the lights are off. Only the direction indicators and the horn are still functional.*

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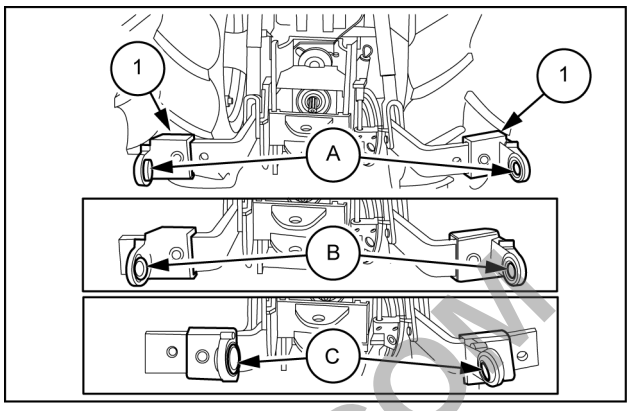
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Category Conversion

NOTE: *The ends* ***(1)*** *of the lower arms are adjustable and enable the use of 1N, 1 and 2 category implements.*

The ends of the arms must be positioned so as to adapt to the width of the implement as illustrated in the figure. If the sliding ends are fitted correctly, the arms must be parallel.

- A position for 2nd category implements.
- B position for 1st category implements.
- C position for 1st N category implements.

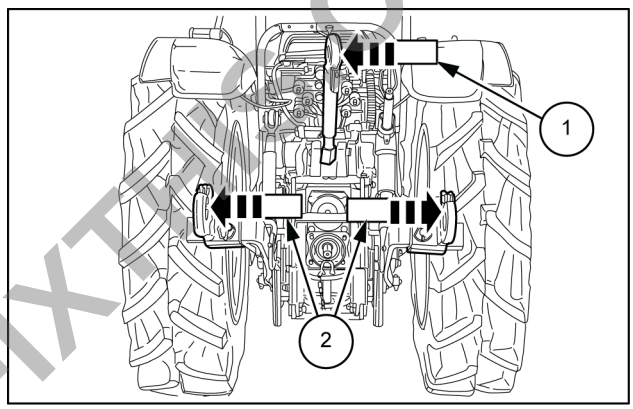


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1st / 2nd category conversion

To allow both Cat I and Cat II categories equipment to be used, the three-point linkage has:

- a bushing with an internal diameter of **19 mm** (**0.75 in**) **(1)** for 1st category implements, to be inserted in the spherical bushing at the end of the top link;
- a set of bushings with an internal diameter of **22 mm** (**0.87 in**) **(2)** for 1st category implements, to be inserted in the spherical bushings at the ends of the lower lift arms.

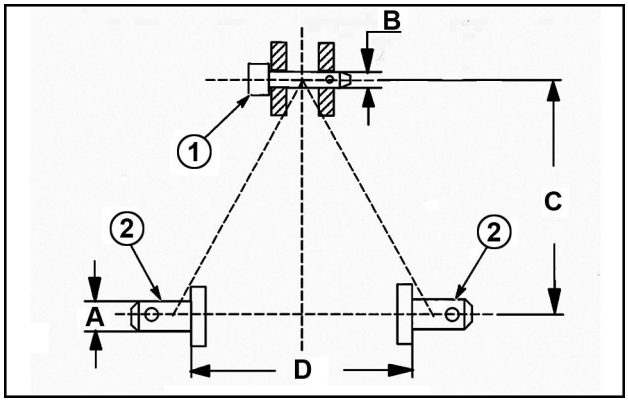


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The three-point linkage system enables connecting both first and second category implements.

Depending on the category of the implement, it is recommended that you respect the dimensions **(C)** and **(D)** given in the table below in order not to damage the coupler.

1. Top link pin
2. Lower lift arm pins



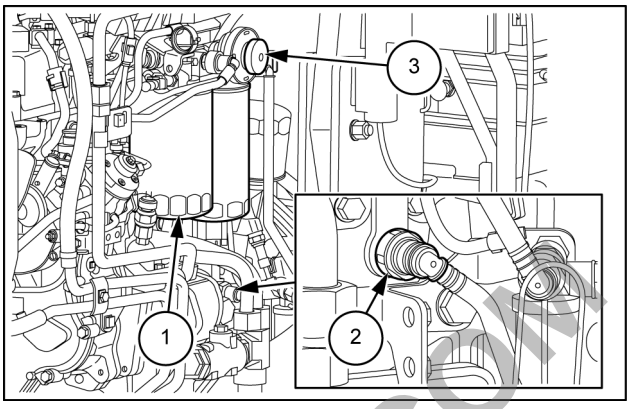
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Appearance dimensions	Categories					
	1N	1	2	2N	3N	3
A	22 mm (0.9 in)	22 mm (0.9 in)	28 mm (1.1 in)	28 mm (1.1 in)	36.6 mm (1.4 in)	36.6 mm (1.4 in)
B	19 mm (0.7 in)	19 mm (0.7 in)	25.5 mm (1.0 in)	25.5 mm (1.0 in)	31.75 mm (1.2 in)	31.75 mm (1.2 in)
C	360 mm (14.2 in)	460 mm (18.1 in)	610 mm (24.0 in)	610 mm (24.0 in)	685 mm (27.0 in)	685 mm (27.0 in)
D	400 mm (15.7 in)	683 mm (26.9 in)	825 mm (32.5 in)	683 mm (26.9 in)	825 mm (32.5 in)	965 mm (38.0 in)

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18. Re-fill the new fuel filter **(3)** with clean fuel.
19. Oil the seal to the new fuel filter **(1)**, then manually tighten it until firmly in place. Lock the fuel filter by manually tightening it an additional 3/4 turns (or at most by one complete revolution).
20. Disconnect the fuel return line **(2)**.
21. Manually push the priming pump **(2)** until fuel starts to come out of the bleed screw **(2)**.
22. Reconnect the fuel return line **(2)**.
23. Thoroughly clean and dry all areas contaminated by fuel spillages.
24. Connect the negative prong (-) battery cable of the battery, see **7-115**.
25. Start the engine and check it is working properly.
26. Check for leaks from the fuel filters.
27. Stop the engine.
28. Fit the left-hand side engine panel, see **7-15**.



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