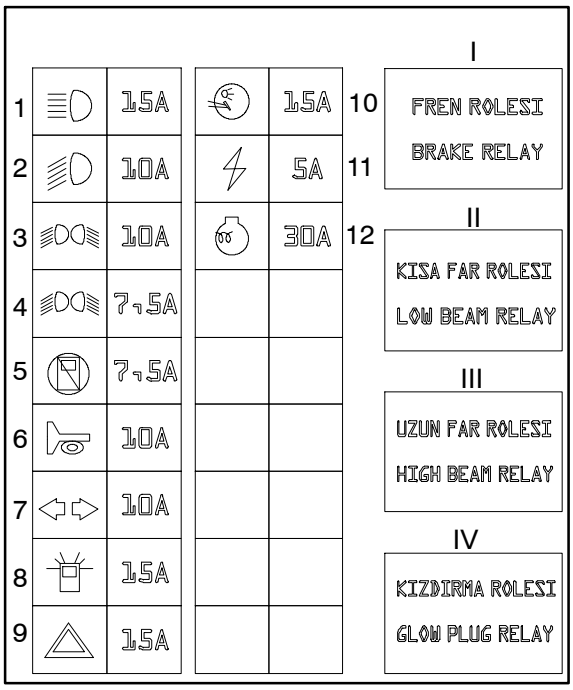
FUSES AND RELAYS MAIN BOX



58

Fuses	*PROTECTED CIRCUITS*	*Amps*
1	Main beam headlights	15
2	Dipped beam headlights	10
3	Front right and rear left side lights	10
4	Front left and rear right side lights	7.5
5	Engine shut-down solenoid	7.5
6	Horn	10
7	Turn signal switch	10
8	Beacon lamp	15
9	Hazard warning	15
10	Brake lights	15
11	Relay	5
12	Thermostart	
I	Brake lights relay	-
II	High beam relay	-
III	Low beam relay	-
IV	Thermostart relay	-

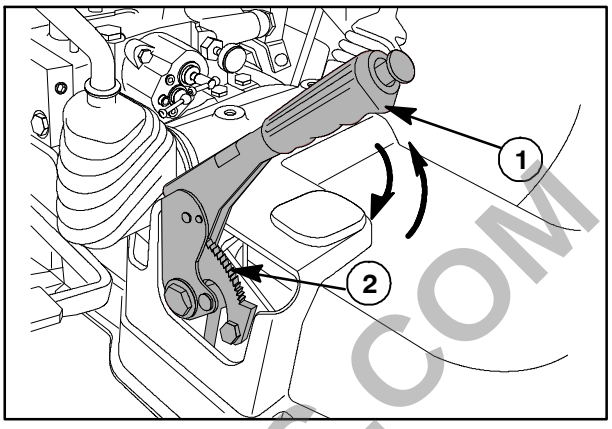
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OPERATION 7

HANDBRAKE - Fig. 10 - 11

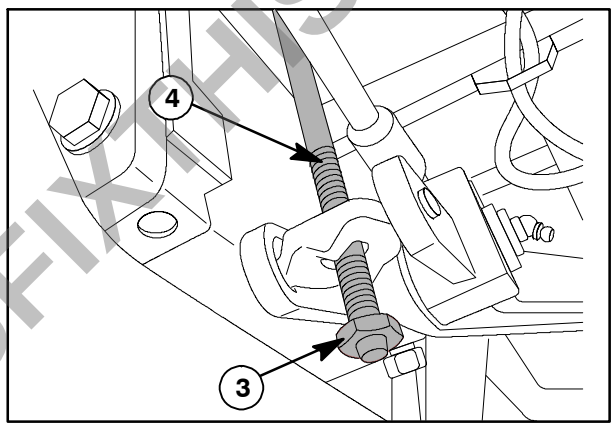
The handbrake lever (1) fig 10 must be adjusted whenever work is carried out on the unit or when the lever does not engage with the eighth notch of the sector gear (2) fig 10 when the handbrake is applied.



10

For all models (4WD) (Fig. 11) proceed as follows:

- Release hand brake lever and disangage hand brake.
- Slacken the lock nut (3)
- Tighten or slacken the adjusting rod (2) until the lever is engaged with the eighth notch, when the handbrake is applied.
- Tighten the lock nut (3).



11

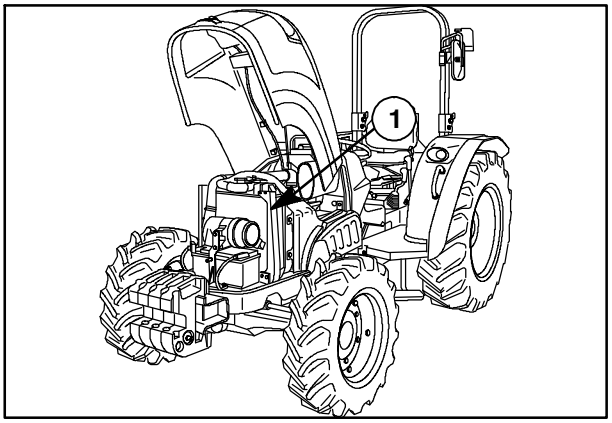
OPERATION 8

CLEAN THE RADIATOR - Fig. 12

Check the cores for chaff accumulation or blockage. If any is noted, clean as follows:

⚠ CAUTION ⚠

Wear eye protection and protective clothing during the cleaning process. Clear the area of bystanders so they are not stuck by flying particles.



12

1. For cleaning, use compressed air or a pressure washer not exceeding 7 bar.

2. Direct the air or water through each core from the bact to front. Clean the radiator . Carefully straighten and bent fins.

NOTE: If the cores are blocked with any oily substances, apply a detergent solution and remove it with a pressure water.

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ENGINE

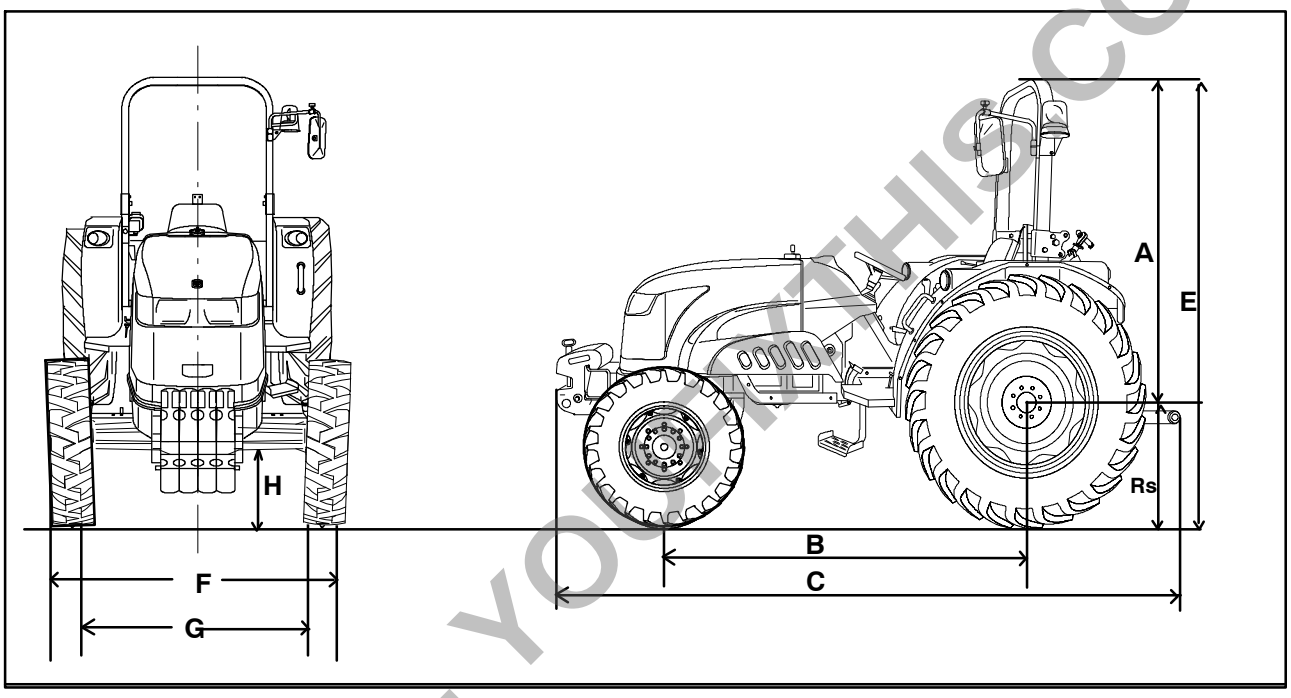
PROBLEM	POSSIBLE CAUSE	SOLUTION
The engine will not start or is difficult to start.	Incorrect starting procedure.	See starting procedure.
	Fuel level low or empty.	Check fuel level.
	Air in fuel system.	Bleed fuel system.
	Engine oil viscosity not right.	Use oil of right viscosity.
	Fuel not suitable for ambient temperature.	Use correct type of fuel for temperature conditions.
	Fuel system contaminated.	Clean system.
	Fuel filter clogged.	Replace filter element.
	Fuel injector fault.	Contact your dealer.
The engine does not run properly and/or cuts out.	Fuel system contaminated.	Clean system.
	Fuel injector fault.	Contact your dealer.
Engine does not reach maximum power.	Engine overload.	Change to lower gear or reduce load.
	Air filter clogged.	Carry out maintenance on air filter.
	Incorrect fuel type.	Use the right fuel.
	Low engine operating temperature.	Check thermostat.
	Fuel injector fault.	Have your dealer check the injectors.
	Implement incorrectly set.	See equipment manual.

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DIMENSIONS OF MODELS

Tyre Combinations	F480	
FRONT	240/70R16	280/70R18
REAR	12.4R24	13.6-28



1

Dimensions mm (in)	Comb. I	Comb. II
Tyre radius under load (Rs)	-	610 (24.02)
A ROPS	-	1780 (70.08)
B	1984 (78.11)	1984 (78.11)
C	3746 (147.48)	3746 (147.48)
E (ROPS)	$A_{rops} + R_s$	$A_{rops} + R_s$
F (front)	1225 (48.23)	1351 (53.19)
G (rear)	1268 (49.92)	1226-1328 (48.27-52.28)
H	239 (9.41)	309 (12.2)

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LUBRICATION AND MAINTENANCE TABLE

The numbers in the second column are with reference to the operations and illustrations in the following pages of this section.

Hours of work	Operation number	Maintenance operation	Functional check	Top up	Clean	Grease	Adjust	Replace	Page
Flexible maintenance	1	Engine clutch					●		4-8
	2	Brake pedal					●		4-9
	3	Alternator belt	●						4-9
	4	Outlet valve, dry air filter			●				4-10
	5	Radiator fluid level		●					4-10
	6	Tractor light	●						4-10
	7	Transmission parking brake	●						4-11
	8	Radiator			●				4-11
	9	Tyre pressure	●						4-12
	10	Wheel disks nut torque	●						4-12
With warning light ON	11	Main cartridge, dry air filter			●				4-13
	12	Hydraulic steering system	●	●					4-14
Every 10 hours	13	Engine oil level	●	●					4-15
Every 50 hours	14	Hydraulic lift and linkage				●			4-16
	15	Hydraulic lift arm conrol lever connection point				●			4-16
	16	Front axle rear pivot 4WD				●			4-16
	17	Front axle front pivot 4WD				●			4-17
	18	Brake pedal connection pivot				●			4-17

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OPERATION

⚠ CAUTION ⚠

Before starting the engine and moving the tractor, follow the instructions written below.

- Do not start or operate the tractor in an enclosed area.
- Before starting the engine, check that all controls are in neutral.
- All controls must be actuated only from the driver's seat.
- Stop the engine before carrying out any service or maintenance operations on the tractor.
- Use the steps provided for entering and leaving the tractor.
- Keep the guards properly fitted.
- When moving on the roads, signal your intention to stop, turn or slow down.
- Use the appropriate warning devices to indicate a slow-moving vehicle.

STARTING THE ENGINE

a. If the tractor has not been used for some time, or if started up for the first time at a low surrounding temperature, actuate the fuel pump starting lever around twenty times.

b. Ensure that both gear levers are in neutral position.

c. Move the throttle lever to around the half way position.

d. Turn the ignition key to position **C**, fig. 1. Release the key as soon as the engine starts.

HOW TO START AND STOP

STARTING IN A LOW EXTERNAL TEMPERATURE

⚠ WARNING ⚠

When the external temperature is low and the engine is cold, cover the radiator before starting so that the engine coolant can quickly reach operating temperature.
Then remove the cover. Note the following warnings:

— Any single engine starting attempt should not last longer than 15 seconds. If, however, the engine fires but does not start, repeat up to a maximum time of 30 seconds.

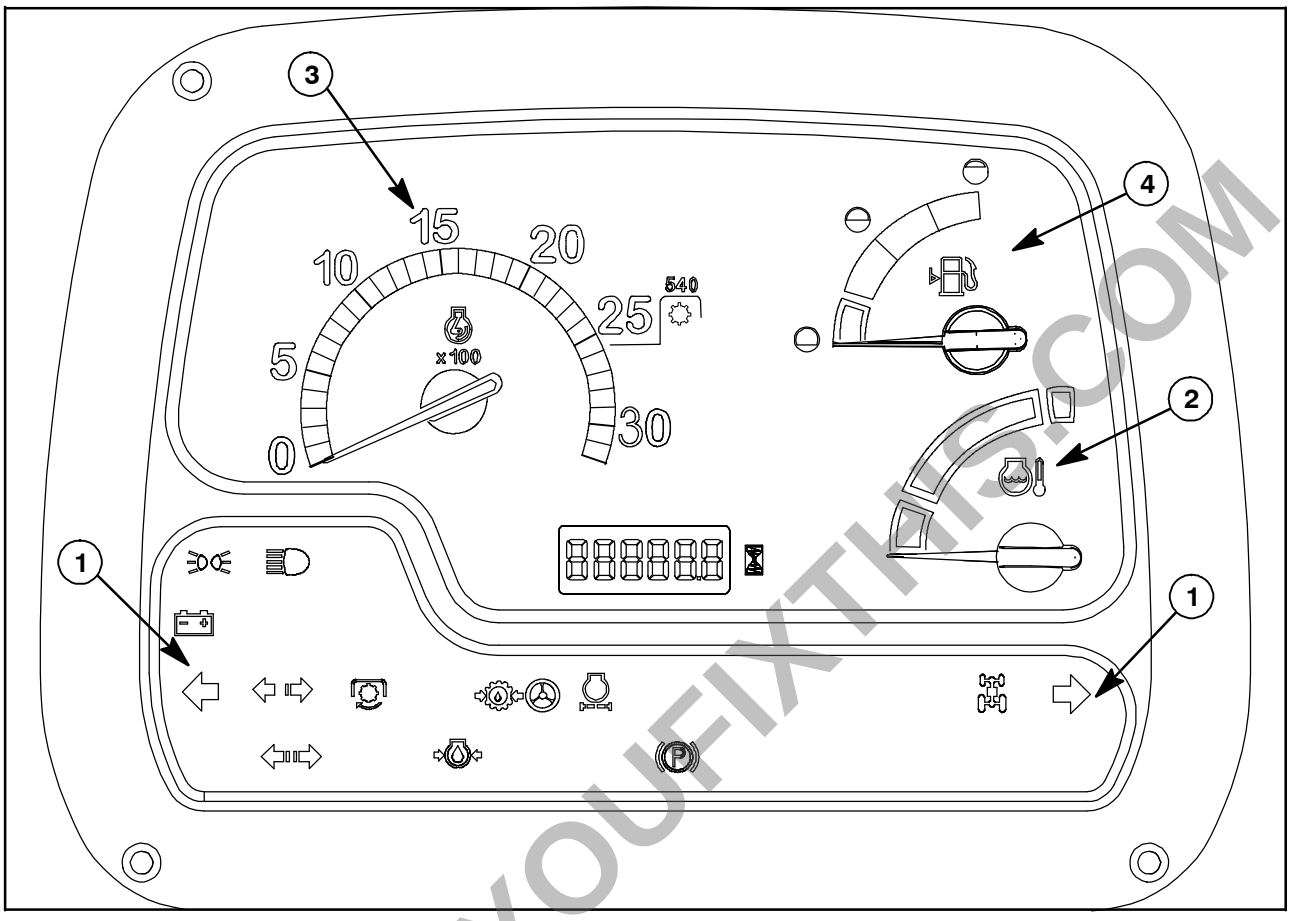
— Wait at least one minute between attempts to start the engine.

— It is advisable not to make more than six attempts to start the engine to avoid excessive battery run-down.

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INSTRUMENT PANEL



1

1. **Warning and indicator lights**

These lights illuminate to indicate a particular operation or to attract your attention.

2. **Engine coolant temperature gauge**

3. **Proofmeter / tachometer**

Hourmeter, engine speed counter, tachometer.

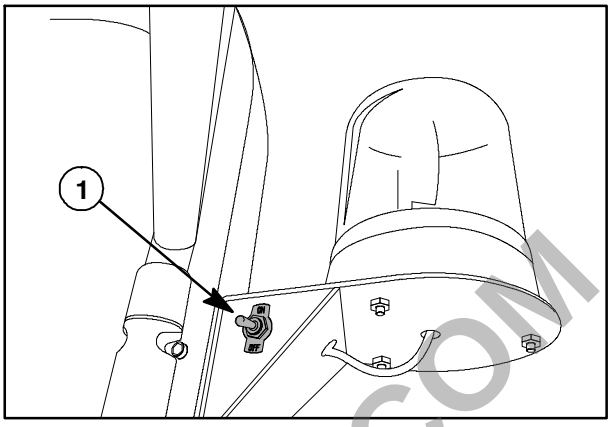
4. **Fuel gauge**

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BEACON LAMP - Fig. 1

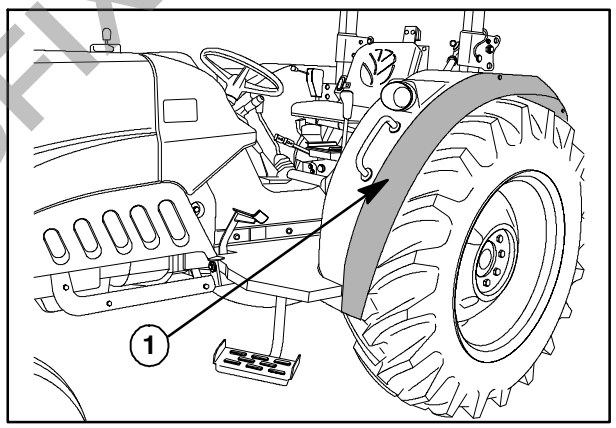
1. Rotary beacon ON/OFF switch.



1

REAR FENDER SIDE EXTENSIONS - Fig. 2

In differant conditions it can be neccessary to use rear fender side extensions (1) Fig. 2.



2

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TOWING THE TRACTOR

TOWING THE TRACTOR

NOTE: The tractor must only be towed for short distances, for example from inside a building to the outside. It must never be towed for long distances on the road in heavy traffic.

NOTE: For transport purposes, haul the tractor with all four wheels on a flat bed trailer or truck.

Use a strong chain when towing the tractor. Tow the tractor from the rear using only the drawbar, rear tow hitch or the three-point hitch.
Tow the tractor from the front using the tow pin on the front support.
Have an operator to steer and brake the tractor.

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

1. Only tow for short distances.
2. Keep the speed below 8 km/h (5 mph).
3. If possible, run the engine to provide lubrication and power steering.

WARNING

Never use ropes or cables to tow the tractor. If a cable or rope breaks or slips, it may cause serious injury.
When using a chain, connect the hook with the open end upwards so that in the event of the hook slipping, it will drop down instead of flying up.

CAUTION

Do not tow the tractor faster than 8 km/h (5 mph). Steering is much slower and steering wheel effort is much greater without the engine running.

LOADING THE TRACTOR ONTO A TRANSPORTER

TRANSPORTING THE TRACTOR

Load the tractor complete with all four wheels onto the vehicle or trailer platform.

Secure the tractor on the transporter with suitable chains.

Use the towing hook fitted on the front of the tractor for this purpose.

Use the drawbar or its supports for the rear hitch point on the tractor.

WARNING

Do not hook or connect chains around the front axle transmission shaft, the power steering cylinders, the front axle itself or other parts of the tractor which could be damaged either by the chains or excessive strain.

WARNING

On all models, cover the silencer outlet to prevent the turbocharger from turning in the wind and damaging the bearings.
The turbocharger turbine must be prevented from rotating freely with the engine off, as the shaft bearings will not be lubricated.

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ADVICE ON STARTING THE ENGINE WITH A FLAT BATTERY OR NO BATTERY

To prevent damage to the alternator and its incorporated voltage regulator follow the procedure below:

When ***the tractor battery is partially discharged***, and an auxiliary battery has to be used to start the engine, connect the auxiliary battery to the tractor battery ensuring that ***the terminal symbols match*** (positive to positive and negative to negative). Connect the positive lead first followed by the negative lead.

Start the engine using the key start switch. When the engine starts, allow it to run at idle speed, turn on all electrical equipment (lights, etc.). This will help protect the alternator from possible damage due to extreme load changes. Now disconnect the auxiliary battery leads. Remove the negative lead first, followed by the positive lead.

If you have to start the engine with ***a totally flat battery*** or where the tractor ***does not have a battery*** remember that:

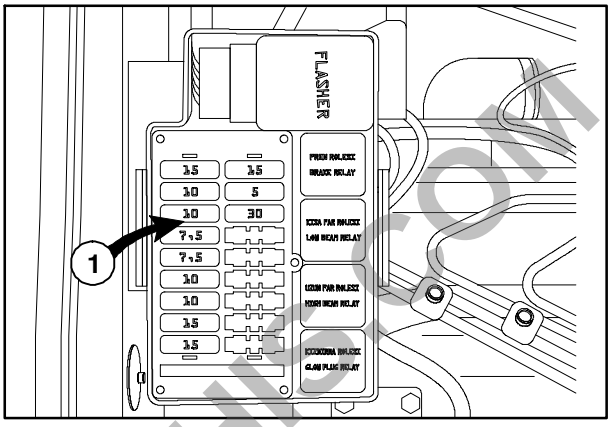
- ***it is not possible*** to start the tractor by towing as the electro-magnetically operated injection pump cut-off will prevent the engine from starting;
- ***it is however necessary*** to connect a 12 V auxiliary battery capable of starting the tractor

Under normal conditions, the engine must never be run unless plug ***D***+, terminal ***B***+ and the condenser are disconnected from the alternator.

When recharging the tractor battery, it must be removed from the tractor to avoid possible damage to the alternator and related circuits. Observe the rule relating to lead connection (positive to positive and negative to negative).

MAIN FUSE AND RELAY BOX-Fig. 57

On all models, the fuse box (1) is located on the right-hand side of the engine compartment under the bonnet.



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EVERY 600 HOURS OF WORK

OPERATION 28

ENGINE OIL - Fig. 37, Fig. 38
ENGINE OIL FILTER - Fig. 39

IMPORTANT: *The interval of 600 hours can however be affected by other factors:*

Cold temperature operation

Engines operating in temperatures below 10.4 °F (−12 °C) or in arduous conditions should have the oil changed every 300 hours of operation. The filter must be changed regularly as prescribed after 600 hours.

Diesel fuel sulphur content

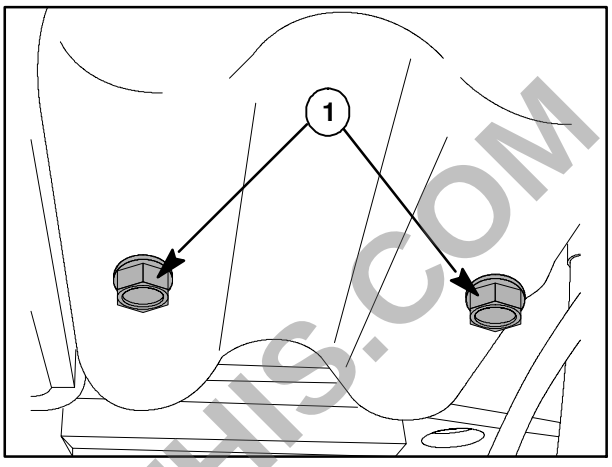
In some countries, locally available diesel may have a high sulphur content, in which case the oil and filter change period should be shortened as follows:

- sulphur content between 0.5% ÷ 1.0%
  - oil change every 300 hours;
- sulphur content between 1.0% ÷ 1.3%
  - oil change every 150 hours;

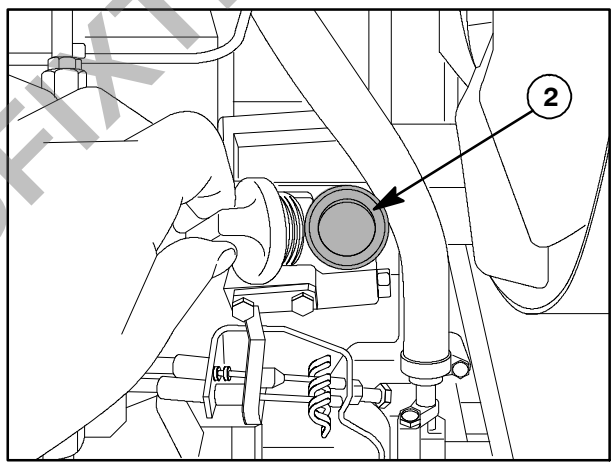
If in doubt, or if it is not possible to check the instructions given, keep to the interval recommended in the **Operator's Manual**.

Draining off the oil and changing the filter

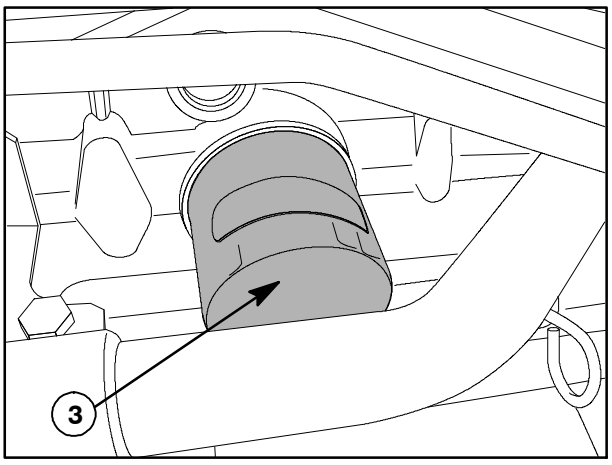
- place a container under the engine sump;
- remove the drain plugs (**1**) from the sump (one on each side) and drain off the oil;
- screw the plugs back on;
- unscrew the filter (**3**) figure 39, drain it of the remaining oil and discard it as required by the current regulations in your country;
- clean the surface of the filter seat;
- lightly oil the seal of the new filter, screw it down into contact with the support and tighten it by hand by $^3/_4$ of a turn, or a full turn at most;
- fill up with new oil through the fill point (**2**) figure 38;



37



38



39

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ELECTRICAL SYSTEM

PROBLEM	POSSIBLE CAUSE	SOLUTION
The electrical system does not work.	Battery terminals loose or corroded.	Clean and tighten terminals.
	Sulphated battery.	Check that battery charge is at least 12.6 volts; check electrolyte level and specific gravity.
Low starter motor speed and difficulty in starting engine.	Connections loose or corroded.	Clean and tighten loose connections.
	Inadequate battery charge.	Check that battery charge is at least 12.6 volts; check electrolyte level and specific gravity.
	Engine oil viscosity wrong.	Use oil of viscosity specified for temperature conditions.
Starter motor does not work.	Gear lever engaged.	Move gear lever to neutral.
	Connections loose or corroded.	Clean and tighten loose connections.
	Battery totally flat.	Charge or replace battery.
Battery charge light stays on when engine is running.	Engine idling speed is low.	Increase idling speed.
	Alternator belt loose.	Check belt tensioning device.
	Battery fault.	Check that battery charge is at least 12.6 volts; check electrolyte level and specific gravity.
	Alternator fault.	Have the alternator checked by your dealer.
	Fault with the electrical system	Have the alternator checked by your dealer or an authorised workshop.
Battery not charging.	Terminals loose or corroded.	Clean and tighten terminals.
	Inadequate battery charge.	Check that battery charge is at least 12.6 volts; check electrolyte level and specific gravity.
	Belt loose or worn.	Check belt tensioning device. If necessary, replace the belt.
The battery charge light flashes to indicate excessive charge voltage.	Alternator fault.	Have the alternator checked by your dealer.
	Fault with the electrical system	Have the alternator checked by your dealer or an authorised workshop.

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