FARMALL 60, FARMALL 70
FARMALL 80, FARMALL 90
FARMALL 95 Tractors

Operator's Manual

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CASE IH AGRICULTURE

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ECOLOGY AND THE ENVIRONMENT

Soil, air and water are vital factors of agriculture and life in general. Where legislation does not yet rule the treatment of some of the substances which are required by advanced technology, common sense should govern the use and disposal of products of a chemical and petrochemical nature.

The following are recommendations which may be of assistance:

- Become acquainted with and ensure that you understand the relative legislation applicable to your country.
- Ask your suppliers of lubricants, oils, fuels, anti-freeze, detergents, etc. for information on the effects of these products on humans and the environment and for instructions concerning their use, storage and disposal. In many cases, local agricultural consultants will be able to provide assistance.

HELPFUL HINTS

1. Avoid filling tanks using unsuitable containers or inappropriate pressurized fuel delivery systems which may cause considerable spillage.
2. In general, avoid skin contact with all fuels, oils, acids, solvents, etc. Most of them contain substances which can be harmful to your health.
3. Modern oils contain additives. Do not burn contaminated fuels and/or waste oils in ordinary heating systems.
4. Avoid spillage when transferring used engine cooling liquids, engine and transmission lubricants, hydraulic oils, brake fluids, etc. Never mix used brake oil with fuel oil, or fuel oil with lubricants. Store safely until suitable disposal can be arranged according to national legislation or local regulations.
5. Modern anti-freeze liquids and solutions, e.g. anti-freeze and other additives,must be replaced every two years. They must not be left to be absorbed into the ground, but must be collected and disposed of in a suitable manner.
6. Do not open the air-conditioning system yourself. It contains gases which should not be released into the atmosphere. Your dealer or air conditioning specialist has a special extractor for this purpose and will have to recharge the system anyway.
7. Repair any leaks or defects in the engine cooling or hydraulic system immediately.
8. Do not increase the pressure in a pressurized circuit as this may lead to the components exploding.
9. Protect hoses during welding as penetrating weld splatter may burn a hole or weaken them, causing the loss of oils, coolant, etc.
10. Do not adjust the setting of the fuel delivery system as this will alter the emission of exhaust fumes.

NOTE: *The engines installed on the tractors comply with anti-pollution legislation.*

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CONTROLS AND INSTRUMENTS - POSITION AND FUNCTION

The position and function of the controls and instruments on your tractor are described in the following pages.

The controls have been sub-divided into groups and are described as follows:

- Instrument panel and console controls
- Instrument console (rear hood) controls
- Operating controls, right-hand side.
- Operating controls, left-hand side.
- Foot pedal and foot plate controls.
- Cab controls.

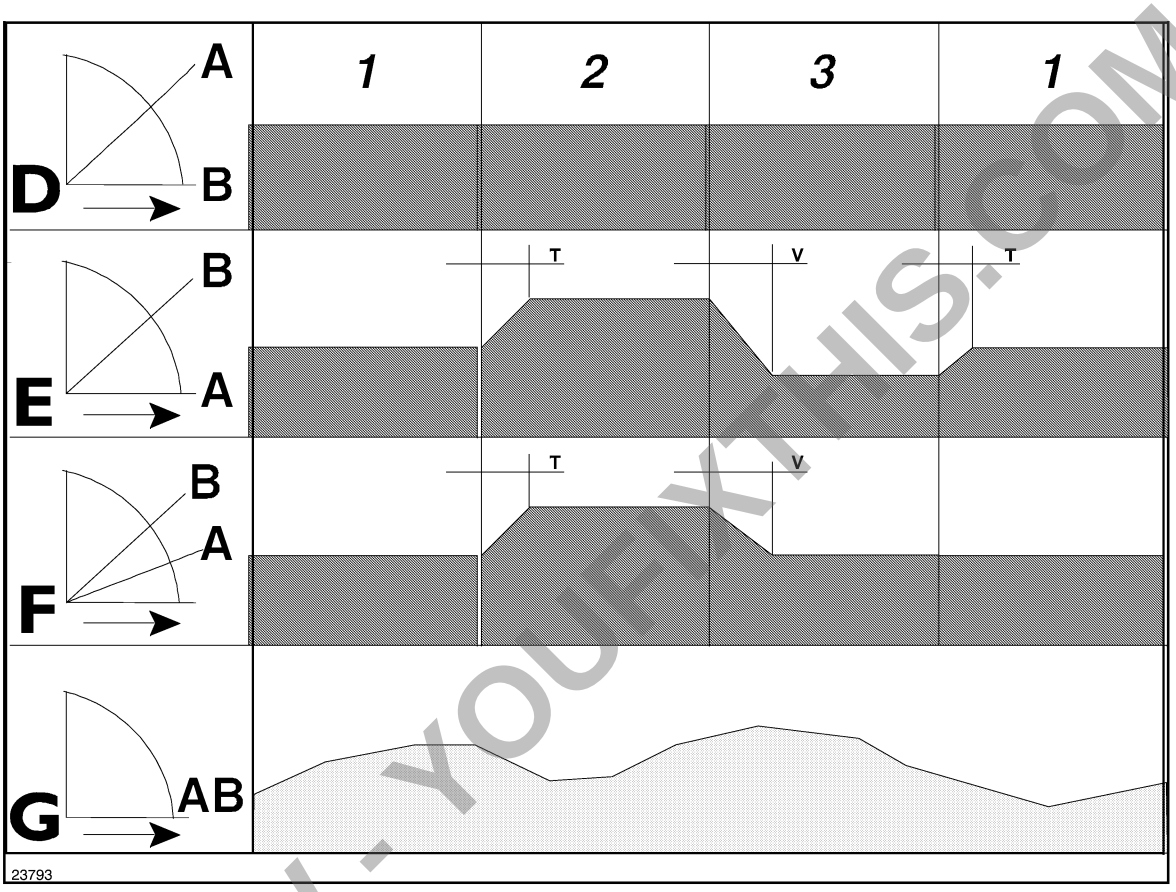
⚠ CAUTION ⚠

Do not use the tractor if you are not fully acquainted with the position and operation of all the tractor controls.

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HYDRAULIC LIFT - CONDITIONS OF USE



18

A Position control lever.

B Draft control lever.

D Position control operation.

E Draft control operation.

F Mixed control.

G Float function.

1 Medium consistency soil.

2 Sticky soil.

3 Loose soil.

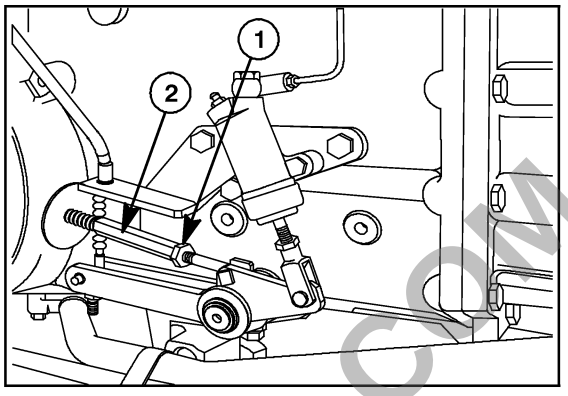
T Constant action time.

V Constant descent speed.

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- If adjustment is required, fully release the handbrake (lever down). Slacken the lock nuts (1) and turn the hexagon sleeves (2) until brake pedal free travel is 5 mm (0.2 inch). Finally, tighten the lock nuts (1).



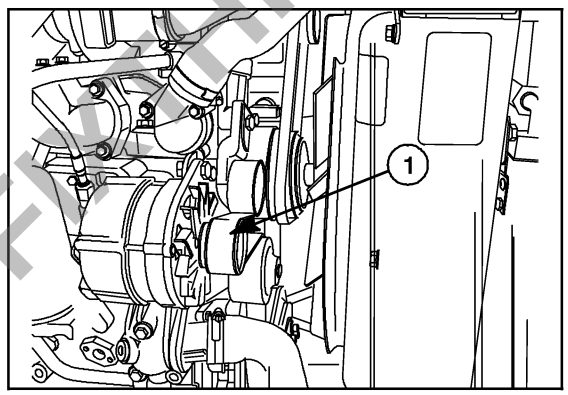
4

OPERATION 3

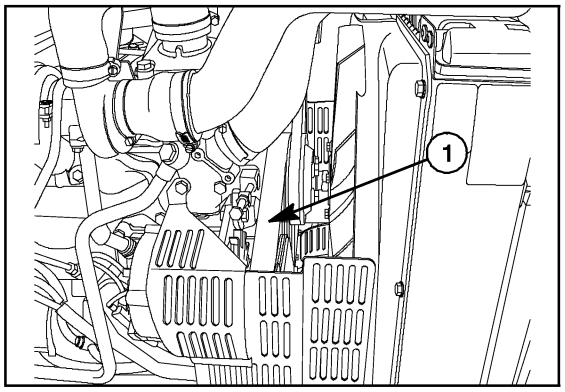
ALTERNATOR BELT INSPECTION
For Farmall 90 and 95 - Fig. 5
For Farmall 60, 70 and 80 - Fig. 6

Contact your dealer's specialized personnel and have the tension of the alternator belt (1) checked.

Ensure that the belt is not cracked, is correctly located on the pulleys and that the belt tensioner is operating correctly.



5



6

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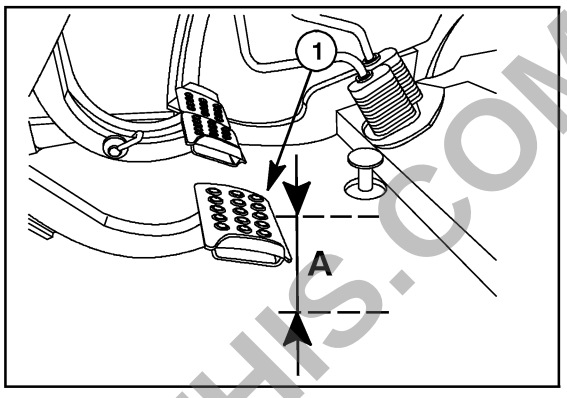
FLEXIBLE MAINTENANCE

OPERATION 1

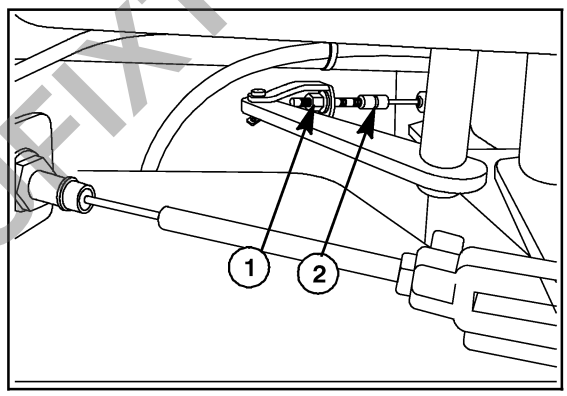
CLUTCH ADJUSTMENT - Figs. 1 and 2

If the clutch pedal position is uncomfortable (too high) or it will not reach its upper rest position (to prevent the clutch slipping) check that distance **A**, on clutch pedal (1) fig. 1 is 35-40 mm (1.4-1.6 inch) if not, adjust the pedal as follows:

- Release lock nuts (1) fig. 2 and turn hexagon sleeve (2) counter-clockwise;
- Check that distance **A** corresponds with the value given above;
- Tighten lock nuts (1) fig. 2;
- Re-check that the pedal travel is as specified.



1



2

⚠ CAUTION ⚠

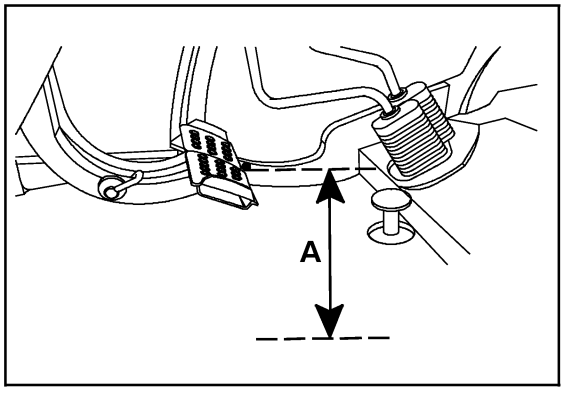
The distance must be measured from the pedal center as shown in fig. 1.

OPERATION 2

BRAKE PEDAL ADJUSTMENT - Fig. 3- 4

Adjusting height of service brake pedals

- With the brake pedals connected to their respective forks and the pedal connecting pin released, check pedal adjustment.
- Check that pedal free travel (A) is the same for each pedal and does not exceeds 80 mm (3.2 inch).



3

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EVERY 10 HOURS

OPERATION 11

ENGINE OIL LEVEL - Fig. 17 and 18

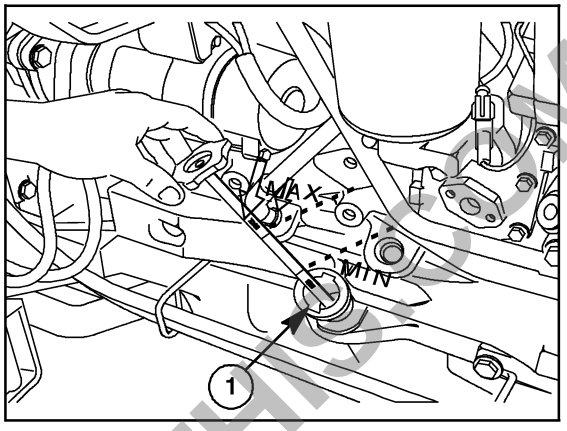
Check the level with the tractor on a level surface with the engine switched off. Allow at least five minutes for the oil to settle in the sump:

- Remove dipstick (1) fig. 17, clean it with a cloth and replace it in its hole.
- Remove the dipstick again and check that the oil level is between the "**MIN** and **MAX**" marks.
- If necessary, add oil through fill points (1) fig. 17 or (2) fig. 18 until the correct level is reached.

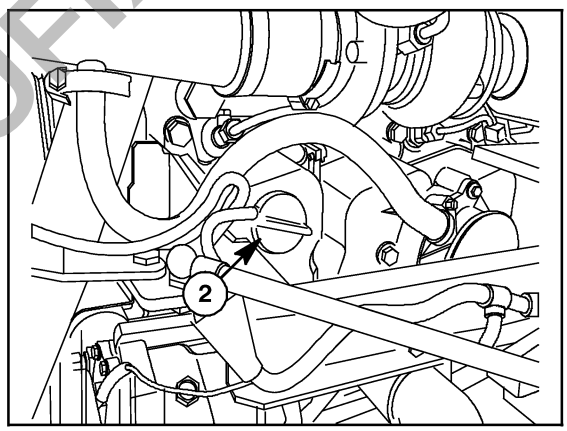
NOTE: A red warning light on the panel shows when the oil level is low.

⚠ WARNING ⚠

Never run the engine when the oil level is below the "**MIN**" mark.



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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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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.
	Battery.	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 authorized workshop.
Battery not charging.	Terminals loose or corroded.	Clean and tighten terminals.
	Battery.	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 authorized workshop.

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WEIGHTS (OPTIONAL) (kg)

MODELS	Front support	Hook	Front end weights	Rear wheel weights	TOTAL
All Models	88 (194.00)	100 (220.46)	2x45 (99.2): 90 (198.4)	4x50 (110.2): 200 (440.9)	478 (1053.8)
			6x45 (99.2): 270 (595.3)		658 (1450.6)
		N/A	7x45 (99.2): 315 (694.5)		603 (1329.4)
			9x45 (99.2): 405 (892.9)		693 (1527.8)
		100 (220.46)	2x45 (99.2): 90 (198.4)	6x50 (110.2): 300 (661.4)	578 (1274.3)
			6x45 (99.2): 270 (595.3)		658 (1450.6)
		N/A	7x45 (99.21): 315 (694.46)		703 (1549.9)
			9x45 (99.2): 405 (892.9)		793 (1748.3)

TRACTOR WEIGHT WITH ROPS

MODELS	without weights		with weights	
	2WD	4WD	2WD	4WD
Farmall 60	2720 (5996.6)	3170 (6988.7)	3520 (7760.3)	3970 (8752.3)
Farmall 70	2720 (5996.6)	3170 (6988.7)	3520 (7760.3)	3970 (8752.3)
Farmall 80	2900 (6393.4)	3350 (7385.5)	3700 (8157.1)	4150 (9149.2)
Farmall 90	3010 (6635.9)	3500 (7716.2)	3840 (8465.7)	4340 (9568.1)
Farmall 95	3040 (6702.1)	3540 (7804.4)	3840 (8465.7)	4340 (9568.1)

TRACTOR WEIGHT WITH CAB

MODELS	without weights		with weights	
	2WD	4WD	2WD	4WD
Farmall 60	3000 (6613.9)	3440 (7583.9)	3800 (8377.6)	4240 (9347.6)
Farmall 70	3000 (6613.9)	3440 (7583.9)	3800 (8377.6)	4240 (9347.6)
Farmall 80	3180 (7010.7)	3620 (7980.7)	3980 (8774.4)	4400 (9700.3)
Farmall 90	3300 (7275.2)	3730 (8223.2)	4140 (9127.1)	4580 (10097.2)
Farmall 95	3340 (7363.4)	3780 (8333.5)	4140 (9127.1)	4580 (10097.2)

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Instruments and accessories

- Multi-function instrument panel
- 7-pin DIN power socket
- Grid heater
- Flashing hazard warning light indicator for tractor and trailer.
- Work lamps (55 W bulb)
- Beacon 55 W.

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