Tractors
62-86 72-86
72-86 LP
82-86
82-86 LP

OPERATOR'S MANUAL

06910286
603.64.253.00
Reprinted

NEW HOLLAND

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OPTIONAL VARIANTS AND ACCESSORIES

This manual covers all your tractor equipment, including the variants and optional accessories listed below:

- Transmission and reverser.
  - 12 forward gears and 4 reverse gears.
- Creeper gear:
  - 20 forward gears and 12 reverse gears.
- Hi-speed bevel gears (40 km/h) front 13/37, rear 11/43.
- Thermostart.
- Start-pilote.
- LIM-SLIP type front self-locking differential.
- PTO:
  - 540/750 rpm.
  - 540/1000 rpm.
- Vertical exhaust.
- Quick release male half-couplings for remote control valve connection under pressure.
- Remote control valves.
- Hydraulic adjustment for right lifting rod.
- Handle adjustment for left lifting rod.
- Provision for trailer brake hand lever.
- Towing devices.
- Front ballast weights.
- Rear ballast weights (models 72-86LP and 82-86LP only).
- Flood light.
- Front mudguards.
- ROPS with dumping safety bar (models 62-86O, 72-86O and 82-86O).
- ROPS with roof (models 72-86LP and 82-86LP).
- ROPS rear view mirror.
- Safety belts.
- Cab.

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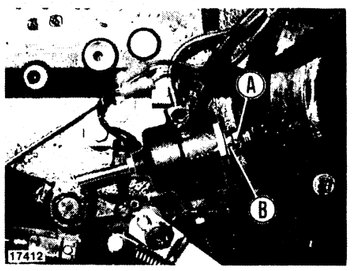
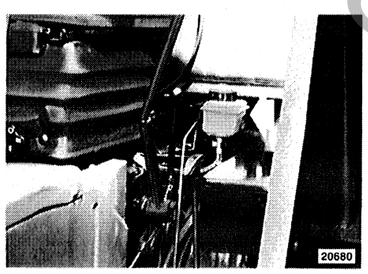
ORS MODELS 62-86O, 72-86O, 82-86O, 72-86LP, 82-86LP and L

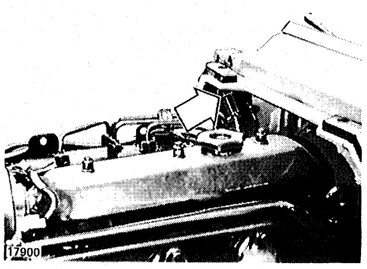
(Supplement to Operator's Manual - Print no. 603.64.253.00R2)



14 BRAKES (40 km/h version) - For adjustment, callon the FIATAGRI Service Network or thoroughly follow these instructions: check the pedal free travel (the length of stroke between pedal at rest and the moment load is felt by depressing the pedal) is the same on both pedals and does not exceed 70 mm (2 ¾ in).
If not, proceed for adjustment:
- move brake locking hand lever down, unlock jam nuts A and turn turnbuckles B until free travel is 35 to 40 mm (1-⅜ to 1-⁹⁄₁₆ in);
- tighten again jam nuts A;
- verify that following free travel, brakes are effective through a further stroke of 40 to 45 mm (1-⁹⁄₁₆ to 1-¾ in).

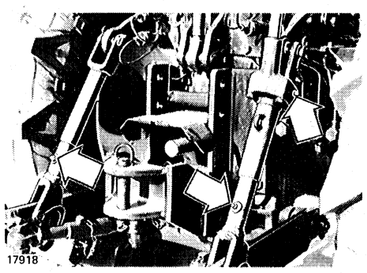


15 BRAKE OIL RESERVOIR (40 km/h version) - Check that oil level reaches up to the "MAX" mark on the reservoir (see "ATTENTION").

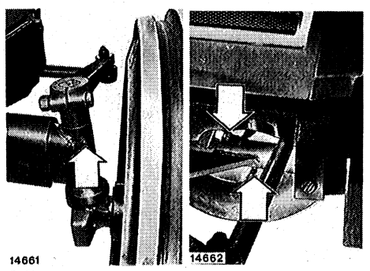


16 TRANSMISSION BREATHER - Should you notice dust or encrusted deposits, remove breather pipe and connection and wash them in kerosene let them drip before refitting.

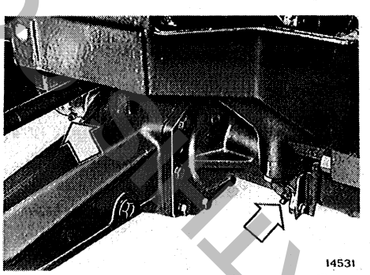
Every 50 hours work



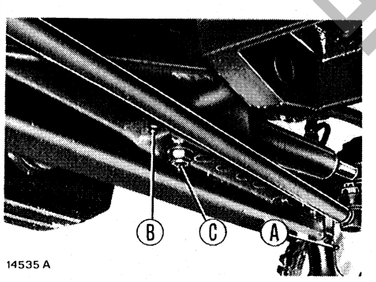
17 LIFT AND 3-POINT LINKAGE - Lubricate by pump using grassofiat TUTELA G9 (3 off).



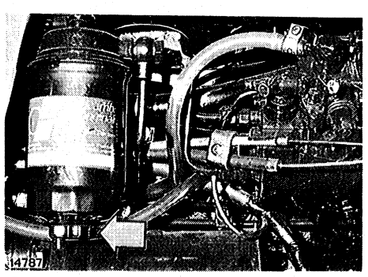
18 STEERING AND AXLE PIVOT (Orchard models) - Pump grassofiat TUTELA G9 grease (4 off).



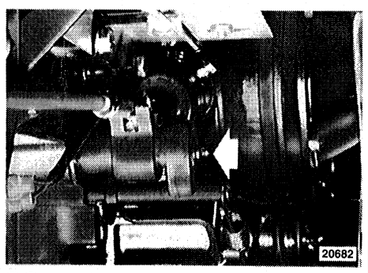
19 FRONT AXLE PIVOT (DT VERSION) - Lubricate with grassofiat TUTELA G9 using a pump (2 off).



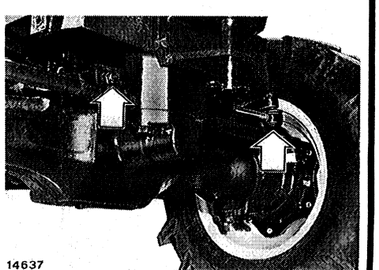
20 STEERING AND AXLE PIVOT (72-86LP, 82-86LP) - Inject grassofiat TUTELA G9 grease into nipples A, one each side, B and C.



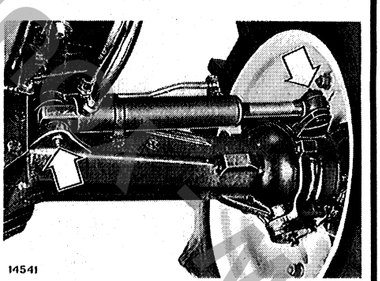
21 FUEL FILTER - Drain weekly by backing off bottom screw through 3 to 4 turns and operating fuel supply pump lever.



22 BRAKE PEDALS - Inject grassofiat TUTELA G9 grease through the nipple shown (one each side).

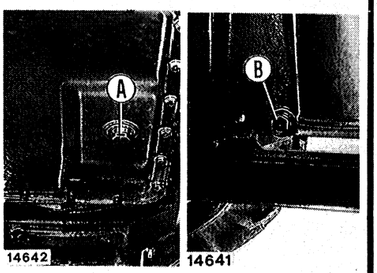


23 STEERING (DT Orchard models) - Inject grassofiat TUTELA G9 grease through the two nipples shown.

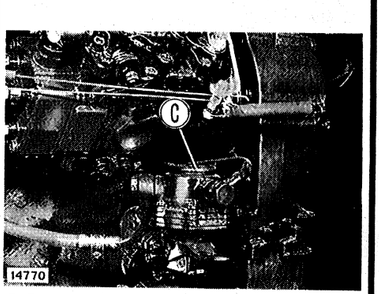


24 STEERING DT (72-86DT LP, 82-86DT LP) - Inject grassofiat TUTELA G9 through the two nipples shown.

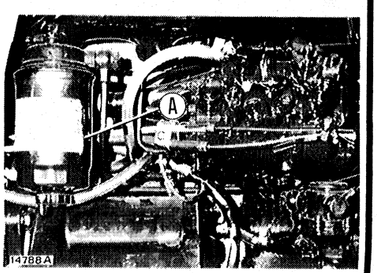
Every 200 hours work



25 ENGINE SUMP - Drain through plug A (4-cyl. engine) or B (3-cyl. engine). See "capacities" and operation no. 1.



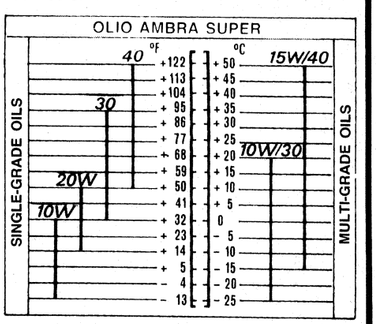
26 FUEL SUPPLY PUMP - Remove cover C and clean inner filter.



27 FUEL FILTER - Unscrew cartridge A from holder and replace it. Bleed out air as described in Book, pages 56 and 57.

NOTE

Cartridge replacement Op. may be protracted to 250 hours.



CAPACITIES

DESCRIPTION	CAPACITY 62-86 O dm³ (liters)	62-86 O USA Gal	62-86 O Imp. Gal	72-86 O dm³ (liters)	72-86 O USA Gal	82-86 O Imp. Gal	72-86 LP dm³ (liters)	72-86 LP USA Gal	82-86 LP Imp. Gal	Fiat Lubrificanti RECOMMENDED FLUIDS	INTERNATIONAL DESIGNATION
Coolant	10.5	2.7	2 1/3	13.5	3.5	3	13.5	3.5	3	Water and ***«PARAFLU 11»*** (see page 55 of the Book)	—
Fuel tank	52	13.7	11 1/2	52	13.7	11 1/2	70	18.5	15 1/2	Decanted and filtered Diesel fuel	—
Engine and filter oil	7.5	2	1 5/8	11.7	3.1	2 1/2	11.7	3.1	2 1/2	***AMBRA SUPER***	Diesel engine oil. Meets MIL-L-2104E and API CE (single-grade oils) or API CF (multi-grade oils) Service and CCMC D4 specifications
Sump oil only	6.7	1.8	1 1/2	10.5	2.7	2 1/3	10.5	2.7	2 1/3		
Brake hydraulic control system	0.44	0.1	1/10	0.44	0.1	1/10	0.44	0.1	1/10	***AMBRA SUPER 10 W*** *or* ***TUTELA GI/A***	MIL-L-2104 E - API CE SAE 10W oil. Meets A.T.F. Dexron II specification.
Hydrostatic steering	1.9	0.5	1/6	1.9	0.5	1/6	1.9	0.5	1/6	***TUTELA MULTI F***	Oil for transmissions. drive lines. oil-bath brakes and lifts. Meets FIATAGRI CAP 001 specification. Specification API: to service GL4. Viscosity grade: SAE 20W/30.
Front axle DT models — Axle case	4.1	1.1	1/3	4.1	1.1	1/10	4.0	1.05	1/10		
Front axle DT models — Epicyc. final drive (each)	1.2	0.3	1/4	1.2	0.3	1/4	1.2	1.1	1/3		
Transmission (Bevel drive) and lift — 2 WD models	42.2	11.2	9 3/8	42.2	11.2	9 3/8	43.2	11.2	9 5/8		
Transmission (Bevel drive) and lift — 4 WD models	42.7	11.3	9 1/2	42.7	11.3	9 1/2	43.8	11.3	9 3/4		
Front hub grease	—	—	—	—	—	—	—	—	—	***TUTELA G9***	Lithium-calcium base grease. NLG I 2
Lubricator grease	—	—	—	—	—	—	—	—	—		

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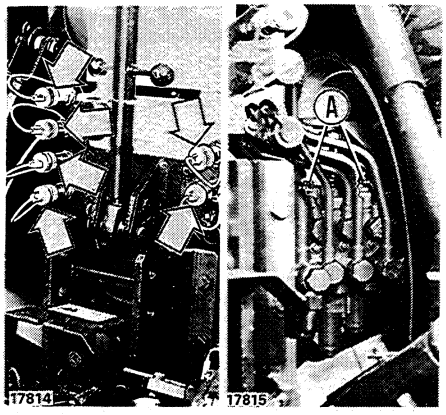
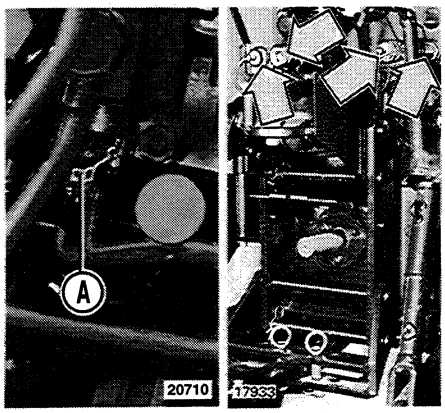
Remote control valves



Models 62-86 O, 72-86 O and 82-86 O

Models 72-86 LP and 82-86 LP



Your tractor may be equipped with one, two or three remote control valves employing hydraulic lift oil to remotely control single- or double-acting cylinders.

Each control valve is provided with two quick-disconnect "push-pull" 1/2 in. female half-couplings suitable for connection to push-type male half-couplings available on request as optionals.

Auxiliary cylinder lines may be connected single-handed.

Push to connect and pull to disconnect from sockets after:

— stopping engine;

— lowering any implements connected to lift;

— thoroughly cleaning half-couplings;

Remote control valves can be either single or double-acting.

To change to:

— ***single acting*** - back off screw ***A*** as shown in the figure, to stop;

— ***double acting*** - fully tighten screw ***A***.

The half-coupling to which implement should be connected is the one whose line fitting is furthest from the change-over screw.

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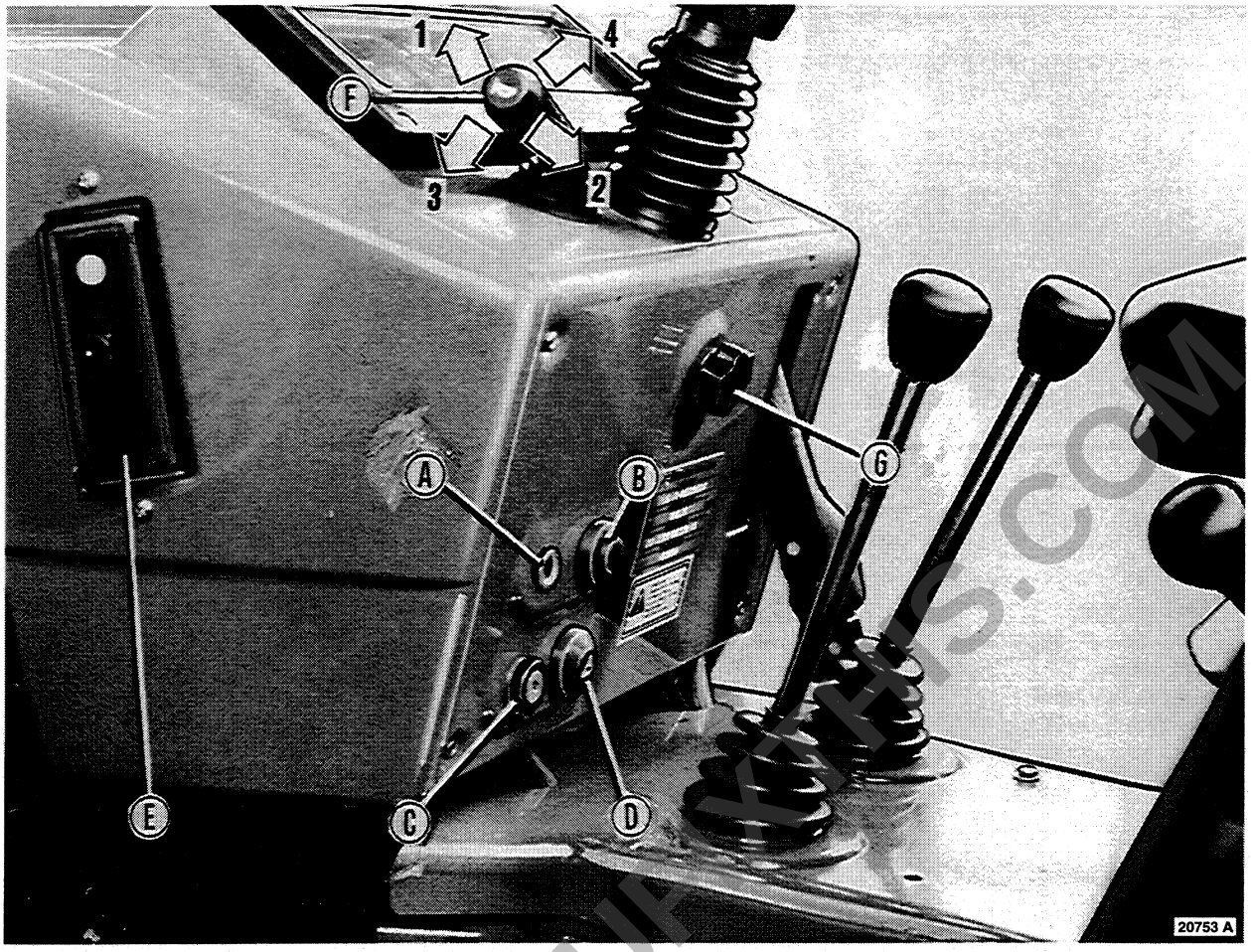

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⚠ CAUTION ⚠

In some of the photographs in this manual, panels or covers have been removed for illustrative purposes. Never operate tractor without these panels or shields removed.

■ Ensure that hydraulic system is not under pressure before disconnecting lines.

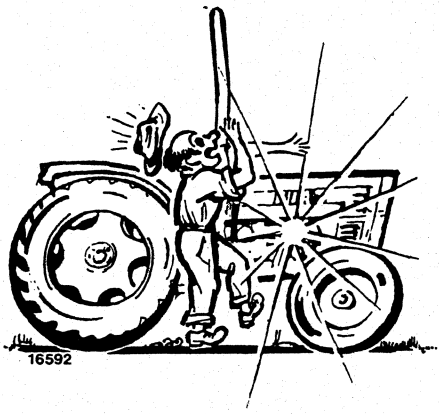
■ Hydraulic oil escaping under pressure could cause serious personal injury. When tracing oil leaks wear protective shields, goggles and gloves.



■ Do not fill tank completely when tractor is to be operated in strong sunlight, as fuel could expand and escape. Any escaping fuel should be wiped off immediately.

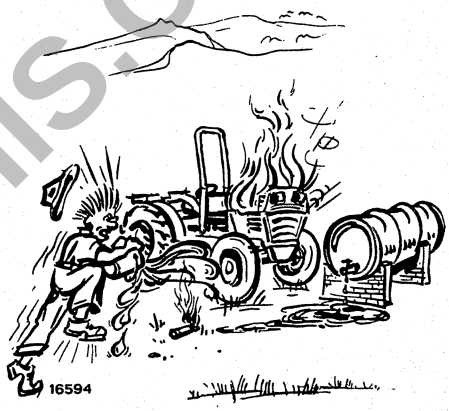
■ Tractor fuel may be dangerous. Never refuel with tractor in motion, near an open flame, with a warm engine or when smoking.

■ Always keep a fire extinguisher within easy reach.



■ Before attempting to inspect, clean, adjust, repair or service the tractor or coupled implement in any way, ensure that the engine is shut off, transmission is in neutral, brakes are applied, PTO is disengaged and all moving parts are stationary.

■ Work on tyres should be carried out by experienced personnel using proper equipment. Incorrect tyre installation can cause serious accidents. If in doubt, turn to qualified personnel for help.



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Safety Precautions

GENERAL

■ Your tractor was designed with safety very much in mind. However, there is no real substitute for caution and attention in preventing accidents. Once an accident has happened, it is too late to think about what you should have done.

■ Read this manual carefully before attempting to start, operate service or refuel the tractor. A few minutes reading will safe time and trouble later.

■ Read and heel all machine mounted safety stickers before refueling or servicing the machine and replace any missing stickers.

■ Some parts installed on your machine, such as engine gaskets and seals, may contain asbestos.

Replacement parts packaging containing these items are labelled with this warning symbol:



Inhaling asbestos powder is dangerous to health. Always, when working with parts containing asbestos, the following precautions are a must:

— Any asbestos powder found on the machine or produced working on its components must be removed an eliminated by extraction methods, never by dusting, blowing or brushing.

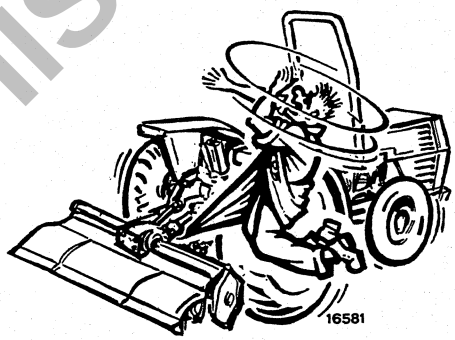
— Asbestos powder residues must be completely dampened, put inside properly identified containers to make sure they will be safely disposed of.

— Should components containing asbestos need to be cut, drilled or ground, the part should be dampened in the first place and then processed exclusively by hand tools or power tools operated at low speeds.

■ Remember that your tractor has been designed exclusively for agricultural use. Any other application must first be authorized by the manufacturer.

■ Keep a first aid kit handy.

■ Do not work with loose garments that could get caught in moving parts. Check that all rotating parts connected to the PTO shaft are well shielded.



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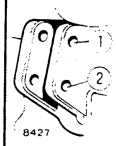
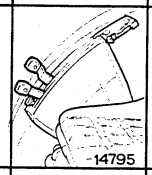
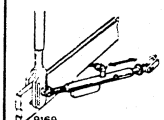
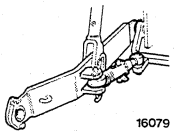
Guide to lift operation

The following information is for guidance only, as working technique and implement and ground characteristics may necessitate solutions the best guide to which is practical experience.

MACHINE OR IMPLEMENT	Top link mounting holes (*)	Operation	Gauge wheels	Check blocks (1)	Check chains (2)	REMARKS
						
Moldboard Plows: — single-, double-, and treble-furrow (one-way or two-way) ..... — four- and five-furrow ..... **Disc Plows:** — two-disc ..... — three-disc ..... — four-disc ..... **Harrows** blade, tooth or disc ..... **Sub-soilers** ..... **Ditchers**	1-2	Draft or combined	No	Not locked	Not taut	Adjust check links so that max. lateral displacement of implements is 50-60 mm (or 1.97 to 2.36 in). When implement is up lateral displacement should not be excessive.
	1-2	Draft control	No	Not locked	Not taut	
Cultivators (all types)	1-2	Draft control	Yes/No	Not locked	Not taut	
Weeders, Ridgers, etc...	1-2	Float	Yes	Locked	Taut	For wheeled implements, move lever to float.
		Draft control	No	Not locked	Not taut	
Carried Seed Drills and Manure Spreaders ..	1-2	Position control	Yes/No	Locked	Taut	
Grader Blades, Augers, Scraper, Manure Forks, Rear Mounted Transport Boxes, etc.... ..... **Mower bars (side and rear mounted), Hay Rakes and Tedders, etc.**	1-2	Position control	No	Locked	Taut	
Front Loaders, Dump Trailers, Hydraulically Controlled Towed Implements	—	—	—	—	—	Remote control valves needed.
Tractor driven without implements	—	—	—	Locked	Taut	
To facilitate implement attachment	—	—	—	Not locked	Not taut	

(*) Mounting hole selection depends on height of implement - (1) Models 72-86LP and 82-86LP - (2) Models 62-86O, 72-86O and 82-86O.

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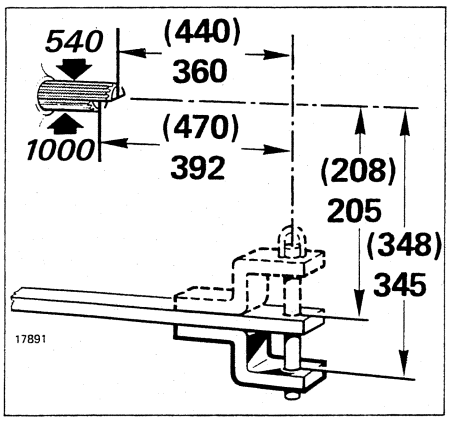

(Data between parenthesis apply to models 72-86LP and 82-86LP).

By carrying out the above adjustments, the drawbar fork will be positioned at the distance settings given in the figure, with respect to the PTO shaft extension.
For a correct implement-PTO coupling, place the drawbar fork turned downwards.

DRILLED CROSSMEMBER

Use for towing non-mounted implements and agricultural machines, even if PTO is activated, which do not involve excessive weight on crossmember to avoid risk of pitching.

D-G. ADJUSTABLE TOW HOOK

This type of hook is suitable for towing all types of trailers, including single-axle trailers. It may be adjusted for height both above and below the P.T.O. In may also be fitted in conjonction with the drawbar.

⚠ *CAUTION* ⚠

Always make sure that the rear towing attachments installed on your tractor are regularly homologated.

ATTENTION

For any emergency manoeuvers with your trailer or to tow the tractor, use the specific front-mounted trailing fork.

F. LEMOINE HOOK

Adjustable height, above or below the PTO, for a total of four different positions, as illustrated (see page 51).

E. ROCKINGER HOOK

It is provided with a trailing pin self-hooking device and for locking the same at work.
Adjustable height, for a total of four different positions as illustrated (see page 51) and can be fitted together with the drawbar.

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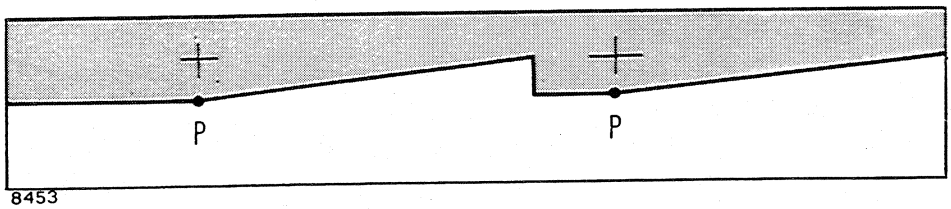
HEADLAMP ALIGNMENT



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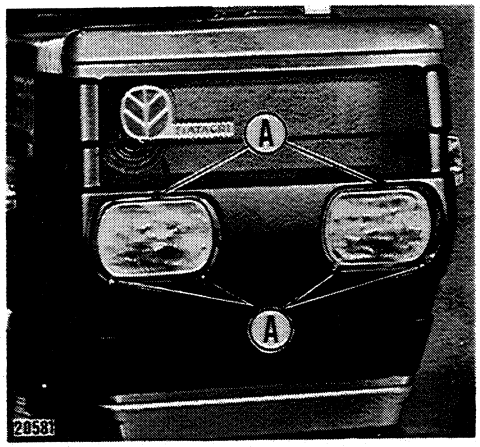
Check headlamp alignment and adjust if necessary, adopting the following procedure:



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- check that tire inflation pressures are as specified and place unladen tractor on level ground in front of a bright wall.
- Draw two crosses on wall corresponding to the headlamp centers.
- Back tractor 5 m or 16 ft. from wall and switch on low beams.
- Reference points ***P-P*** should lie ***5 cm*** or 2 in below cross marks on wall.
- To adjust, turn screw in holes ***A*** as necessary.

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A. Power point (single pole).

B. Thermostarter or Start-pilot control (see page 21).

C. Starter switch (see page 20).

D. Hazard warning control and indicator. Always on even with key removed from starter switch ***C***. Press to activate and press again to switch off.

E. Fuse box (see page 57).

F. Lighting switch and horn button (switch ***C*** to pos. ***1***, page 20). To obtain the different control functions, move lever and turn knob to bring index into alignment with the irrespective symbols as shown below:



Press in: horn. Functional with knob and lever in all positions.



It is possible to activate turn signals and hi-beam flashing.



Parking lights and possibility to activate turn signals and hi-beam flashing.



Low-beam headlights and possibility to activate turn signals and hi-beam flashing.



Hi-beam headlights, permanent: with knob in low-beam lights position bring lever down on position ***3***. It is possible to activate turn signals.



Turn signals:
— ***1***, forward = right turn;
— ***2***, back = left turn.



Hi-beam lights flashing: push lever upwards, position ***4***.

G. Steering wheel height adjustment knob.

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