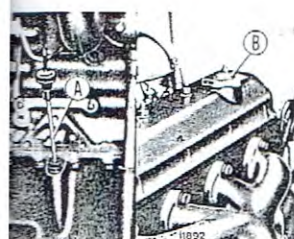


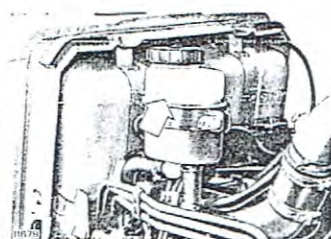
RUNNING-IN

During the running in period (60 hours approx.) adhere to the instructions given under the flexible maintenance and 50 hour section of this chart. Moreover: allow the engine to idle for a few minutes after starting from cold. Do not idle the engine for long periods. Do not allow the tractor to labour continuously under heavy loads. The above apply equally to reconditioned units.

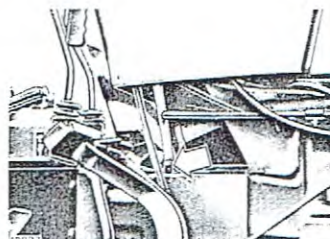
CAUTION - On completion on first 60 hours, renew the engine oil (operation 21) and the filter cartridge (operation 25). Moreover, renew the lift oil (operation 26).



ENGINE SUMP - Check oil level through dipstick A and top up with filler B.



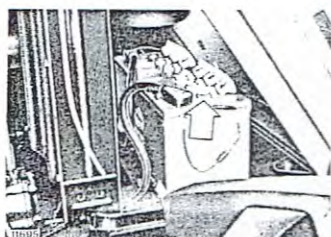
5 POWER STEERING FLUID RESERVOIR - With wheels in straight-ahead driving position - Check fluid level and top up as necessary.



8 TRANSMISSION VENT - Remove hole and fitting and wash in gasoline. Allow to drain before replacing.



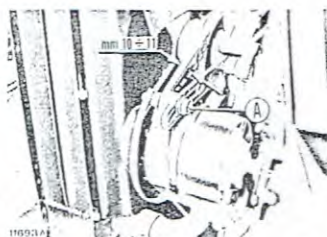
AIR CLEANER - Depress rubber button to clean drain valve.



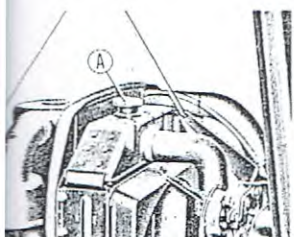
6 BATTERY - Check electrolyte level with a stationary engine, tractor on level ground and cold battery (see page 52).



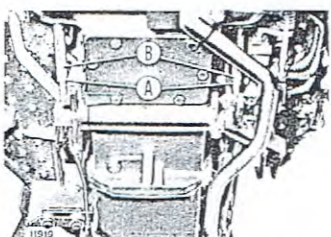
9 OIL BATH AIR CLEANER - Check that oil reaches level indicated when engine has been stationary for at least 15 minutes.



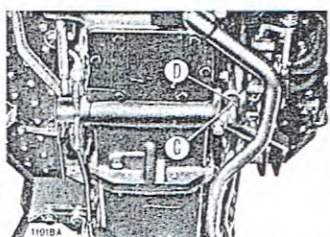
12 FAN BELT - Belt should deflect 10 to 15 mm or 1/2 in under 117 N (12 kg or 26 lb). Adjust through nut A.



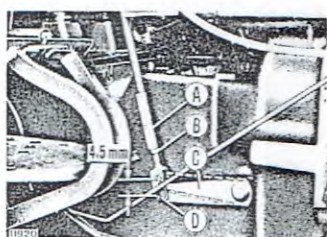
RADIATOR - Remove cap A with engine cold and check that coolant level is 3 mm (1 1/4 in) from top of filler.



7 BRAKES - Check that brake free travel is equal for both pedals and does not exceed 80 mm (3 in); to adjust proceed as follows:
- Move hand lever down
- Slacken locknuts A and adjust free travel to 45 mm (2 in) through turnbuckles B
- Retighten locknuts A.



10 PARKING BRAKE - After adjusting service brakes (op. 7) check parking brake adjustment as follows:
- Move control lever to rest position
- Back off locknut C
- Turn nut D until cross pin is in light contact upward with the associated seats in the pedals
- Tighten lock nut C.



13 P.T.O. CLUTCH - Move lever C fully down and check that free travel at pin D is 4.5 mm or 0.18 in prior to clutch withdrawal. When down to 2.5 mm or 0.10 in adjust clutch as follows:
- Slacken locknut B and turn turnbuckle A clockwise through 1 1/4 turn (pin D moves through 3 mm or 0.12 in every turn)
- Retighten locknut B.
- Ensure that lever free travel is 4.5 mm or 0.18 in.



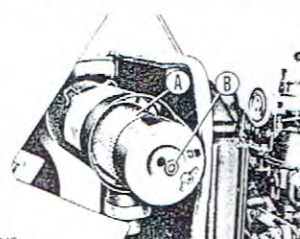
MASTER CLUTCH - Check pedal free travel. Correct free travel is 25 mm (1 in). When down to 15 mm (1 1/2 in) adjust as follows:
- Slacken lock nut A and turn sleeve B counter-clockwise (one turn equivalent to 12 mm or 1/2 in pedal travel).
- Tighten locknut A.
- Ensure that pedal free travel is 25 mm or 1 in.



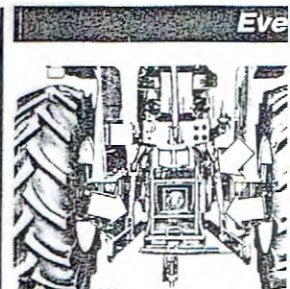
MISCELLANEOUS CHECKS - Periodically check the following parts and in case of anomalies turn to trained personnel. If necessary, replace defective parts:
- Steering linkage joints; ensure that there is no play and that relevant taper spigots are tight in their seats;
- Power steering cylinder hoses; ensure that hose is free from kinks, cracks or bulges and that there is no leakage between hose and fittings.
- Parking brake hand lever; ensure that ratchet gear locks securely.
- Master clutch spring loaded link; ensure that outer sheath is free from cracks or damage and that link is not bent.

FLEXIBLE MAINTENANCE

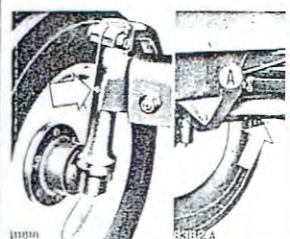
If performed at the correct intervals, the routine operations will ensure sustained tractor efficiency. However, in addition to these, the important inspection and adjustment operations listed below should be performed at such intervals as dictated by environmental and working conditions. Experience suggests that it is safer and cheaper to inspect too often than too infrequently.



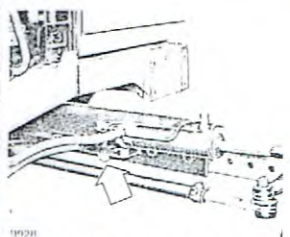
11 DRY AIR CLEANER - When cleaner indicator comes on, remove cover, withdraw outer cartridge A and clean using either of the following:
- Compressed air at less than 6.9 bar (7 kg/cm² or 100 psi) directing flow from inside toward exterior.
- Water and foamless detergent, subsequently rinsing at less than 2.9 bar (3 kg/cm² or 43 psi) and drying in air at less than 50°C.
Never clean cartridge by striking against a hard surface.
Replace sealing ring B if damaged.
Do not separate plastic fins from element body. Using a wet cloth, thoroughly clean inside of sheet metal container.
See also under "Remarks".



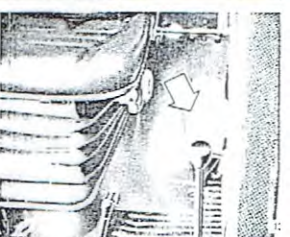
15 LIFT AND 3-POINT LINKAGE - Lubricate 3 nipples using grassoil TELA G9 grease.



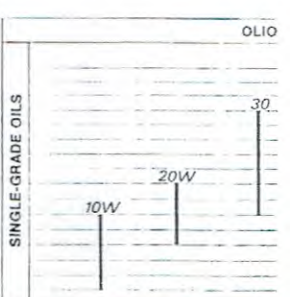
16 STEERING AND AXLE PIVOTS - Lubricate using grassoil TUTE grease. On power steering version nipple not provided.



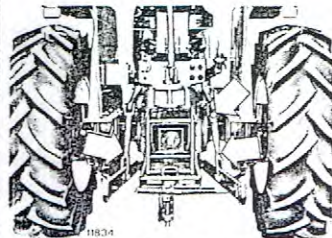
17 POWER STEERING - Lubricate nipple using grassoil TUTE grease.



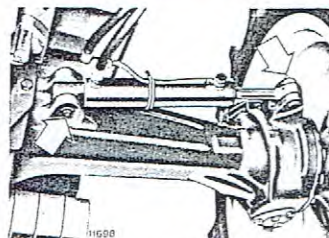
SHIELD WASHER LIQUID RESERVOIR - Check level and top up as necessary (see capacities).



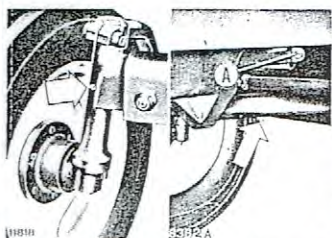
Every 50 Hours



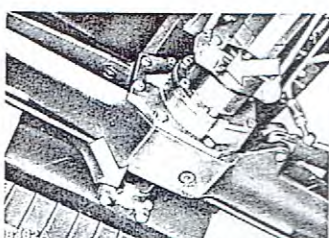
15 LIFT AND 3-POINT LINKAGE - Lubricate 3 nipples using grassfiat TUTELA G9 grease.



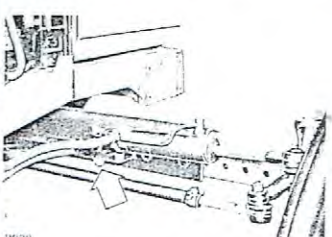
18 STEERING (DT VERSION) - Lubricate 2 nipples using grassfiat TUTELA G9 grease.



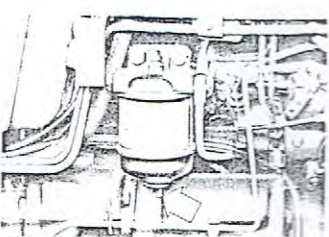
16 STEERING AND AXLE PIVOTS - Lubricate using grassfiat TUTELA G9 grease. On power steering version nipple A is not provided.



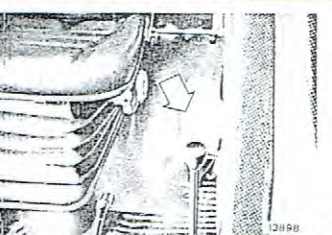
19 FRONT AXLE PIVOT (DT VERSION) - Lubricate using grassfiat TUTELA G9 grease.



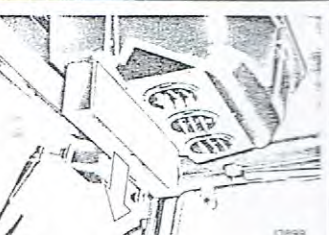
17 POWER STEERING - Lubricate 1 nipple using grassfiat TUTELA G9 grease.



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

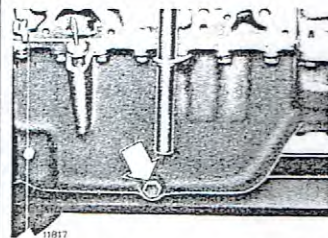


14 SHIELD WASHER LIQUID RESERVOIR - Check level and top up as necessary (see Capacities).

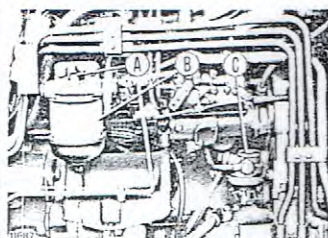


14 CAB
CAB AIR FILTER (PAPER) - Back off the knobs, withdraw the cartridges (1 on each side) and clean:
— With compressed air at less than 5.9 bar, (6 kg/cm² or 85 psi), directing the flow from inside toward exterior.
or:
— Dip elements in a solution of water and foamless detergent at 40° C. for 15 minutes.
— Rinse thoroughly with water at 2.7 bar (2.8 kg/cm², or 39 psi) and dry in air.
Clean filter housing with a wet rag.
On assembly, ensure that labelled arrow faces toward inside of cab.

Every 200 Hours

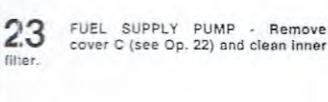


21 ENGINE SUMP - Remove plug, drain and refill (see Capacities and Op. 1).

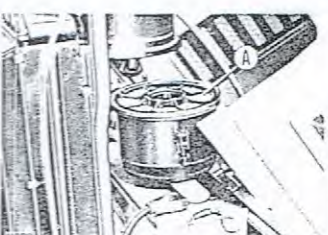


22 FIRST FUEL FILTER - Remove screw A and renew cartridge B. Bleed system as directed on page 52.

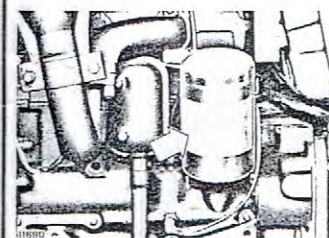
NOTE
Cartridge replacement may be postponed to 250.



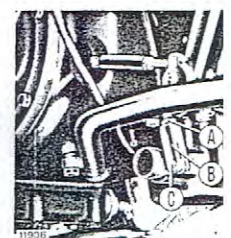
23 FUEL SUPPLY PUMP - Remove cover C (see Op. 22) and clean inner filter.



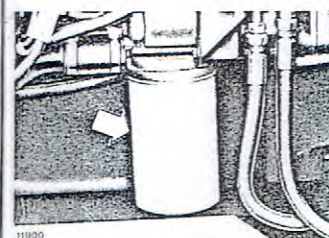
24 OIL BATH AIR CLEANER - Remove element A, wash with kerosene and drain. Oil before installing.



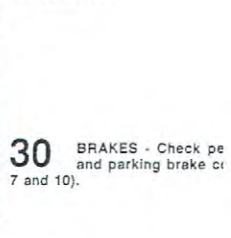
25 ENGINE OIL FILTER - Replace cartridge, oil the seal, screw cartridge to contact block and tighten by hand through a further 3/4 turn.



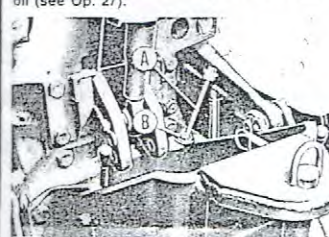
29 PARKING BRAKE - If free travel exceeds 1 nut A, withdraw pin C and un restore 4 clicks (correct free en locknut A.



26 LIFT FILTER - Renew cartridge. Replace cartridge, oil the seal, spin on cartridge to contact block and hand tighten through a further 3/4 turn. Top up using fresh oil (see Op. 27).



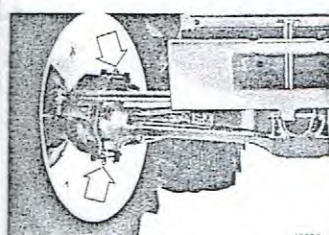
30 BRAKES - Check pe and parking brake c 7 and 10).



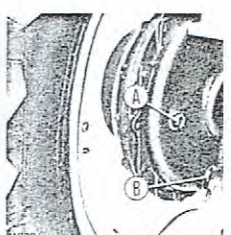
27 TRANSMISSION AND LIFT - Check that oil level reaches max mark on dipstick A with tractor level, engine shut off, lift arms lowered and dipstick plug screwed fully in. Top up through hole B.



31 FRONT FINAL DRIVE - Bring filler A check oil level, topping up as



28 KING PINS (DT) - Inject grassfiat TUTELA G9 into nipples at least twice a year (2 nipples on each side).



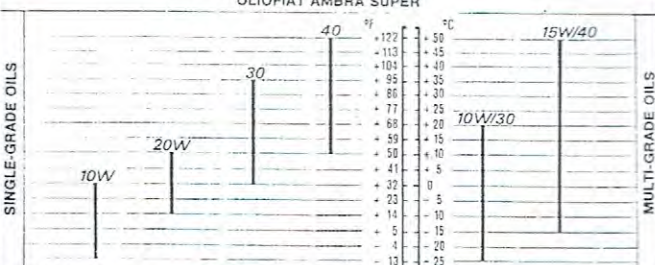
32 FINAL DRIVES - Check is up to top of plug A necessary.

CAPACITIES

| DESCRIPTION | CAPACITY | | | FIAT RECOMMENDED FLUIDS |
|---|------------------------------|------|----------------------|-------------------------------------|
| | (dm ³) Liters | kg | Imp. Units | |
| Coolant { no cab cab | 12 14 | — | 2 1/2 Gall 3 Gall | Water and «PARAFU 11» (see page 55) |
| Fuel | 73 | — | 16 Gall | Diesel oil (siphoned and filtered) |
| Windshield washer fluid | 2 | — | 3 1/2 Gall | Water and FIAT «DP1» (1) |
| Engine and filter oil | 7.3 | 6.6 | 1 1/2 Gall | oliofiat AMBRA SUPER |
| Sump oil | 6.7 | 6.0 | 1 1/2 Gall | |
| Oil bath air cleaner | 0.55 | 0.5 | 1 Pint | |
| Power steering fluid | 1.8 | 1.6 | 3 1/4 Pints | oliofiat TUTELA MULTI F |
| Steering oil | 0.9 | 0.8 | 1 1/2 Pints | |
| Front axle 55-66 { Axle casing DT and 60-66DT { Final drives | 4.3 | 3.9 | 3/4 Gall | |
| versions { (each) | 0.8 | 0.7 | 1 1/2 Pints | |
| Transmission (including bevel drive, and brakes) and lift: | | | | |
| — Models 55-66 and 60-66 | 40 | 36 | 8 1/2 Gall | grassfiat TUTELA G9 |
| — Models 55-66DT and 60-66DT | 40.8 | 36.7 | 8 Gall | |
| Final drives (each) | 3.9 | 3.5 | 3/4 Gall | |
| Front hub grease | — | — | — | |
| Lubricator grease | — | — | — | |

(1) Anti-freeze detergent liquid effective down to -10°C in 50-50 solution - For temperatures below -10°C use DPS neat.

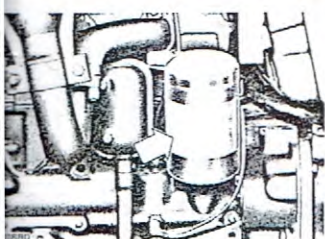
OLIOFIAT AMBRA SUPER



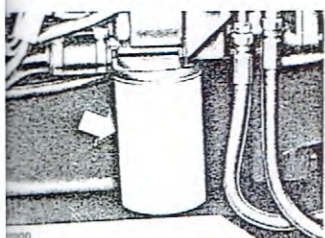
SDT - SERVICING CHART

Annual Print no. 603.64.049.00R)

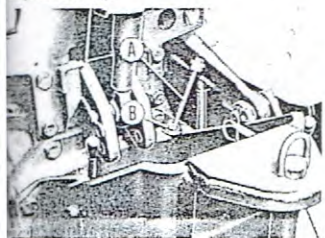
Every 400 Hours



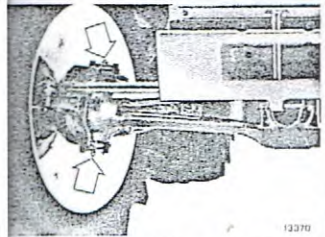
25 ENGINE OIL FILTER - Replace cartridge, oil the seal, screw cartridge to contact block and tighten by hand through a further $\frac{1}{4}$ turn.



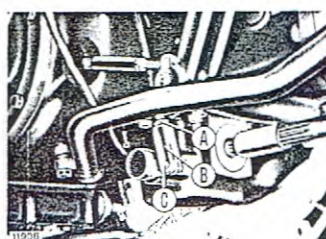
26 LIFT FILTER - Renew cartridge. Replace cartridge, oil the seal, spin on cartridge to contact block and hand tighten through a further $\frac{1}{4}$ turn. Top up using fresh oil (see Op. 27).



27 TRANSMISSION AND LIFT - Check that oil level reaches max mark on dipstick A with tractor level, engine shut off, arms lowered and dipstick plug screwed fully in. Top up through hole B.



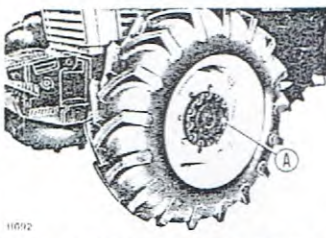
28 KING PINS (DT) - Inject grassfiat TUTELA G9 into nipples at least once a year (2 nipples on each side).



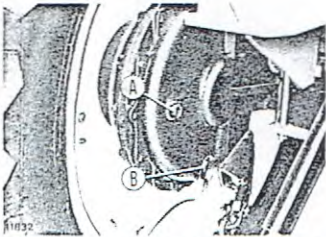
29 PARKING BRAKE - If toothed sector free travel exceeds 7 clicks slacken nut A, withdraw pin C and unscrew fork B to restore 4 clicks (correct free travel). Retighten locknut A.



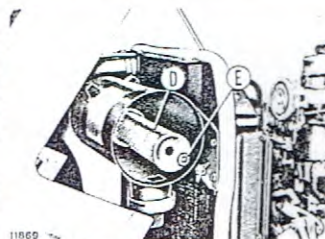
30 BRAKES - Check pedals free travel and parking brake control (see ops. 7 and 10).



31 FRONT FINAL DRIVES (DT VER-SION) - Bring filler A horizontal and check oil level, topping up as necessary.



32 FINAL DRIVES - Check that oil level is up to top of plug A and top up as necessary.



33 DRY AIR CLEANER - After cleaning three times, replace inner cartridge D. If damaged, also replace seal E.



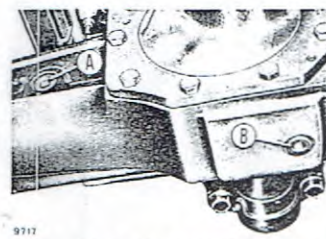
34 STEERING UNIT - Check that oil level is up to plug hole and top up as necessary (see Capacities).



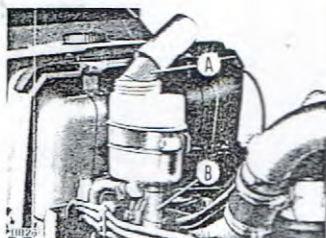
35 FRONT WHEELS - Remove hub cap, pack with grassfiat TUTELA G9 grease and refit.



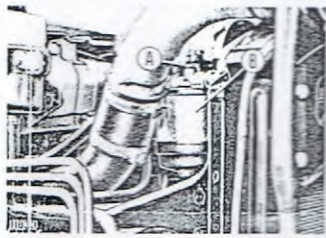
36 OIL BATH AIR CLEANER - Clean all parts. Dip elements in kerosene for half an hour. Drain and oil before assembly.



37 FRONT AXLE CASING (DT VER-SION) - Check that oil level is up to hole of plug A and top up as necessary (see Capacities).



38 POWER STEERING - Remove filter A (press down and move sideways) and wash in kerosene together with plug.

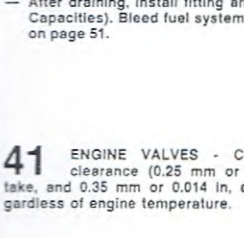


39 SECOND FUEL FILTER - Back off screw A and replace cartridge B. Bleed as directed on page 52. See also under "Remarks".

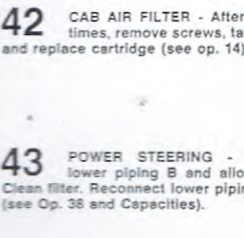
NOTE
Filter replacement may be postponed to 1000 hours.



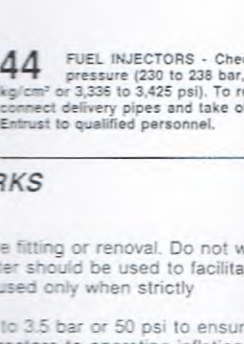
40 FUEL TANK - With tractor ground, engine shut off almost empty, proceed as follows:
- Remove fitting shown below drain fuel to remove water and
- After draining, install fitting (see Capacities). Bleed fuel system on page 51.



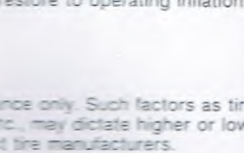
41 ENGINE VALVES - Check clearance (0.25 mm or 0.010 in. take, and 0.35 mm or 0.014 in. regardless of engine temperature).



42 CAB AIR FILTER - After times, remove screws, take and replace cartridge (see op. 14).



43 POWER STEERING - Check lower piping B and allow Clean filter. Reconnect lower pipin (see Op. 38 and Capacities).



44 FUEL INJECTORS - Check pressure (230 to 238 bar, kg/cm² or 3,335 to 3,425 psi). To re-connect delivery pipes and take off Entrust to qualified personnel.

REMARKS

TIRES

Tires should be carefully cleaned before fitting or removal. Do not work with tires on the ground. Soap and water should be used to facilitate fitting and removal. Grease should be used only when strictly necessary. When fitting a new or used tire, inflate to 3.5 bar or 50 psi to ensure that beads are properly retained, then restore to operating inflation rating.

TIRE INFLATION PRESSURES

Tire inflation ratings given are for guidance only. Such factors as tire make, ballast and service conditions, etc., may dictate higher or low pressures. For further guidance contact tire manufacturers.

OIL BATH AIR CLEANER

In very dusty territories bowl oil level should be checked more frequently (Op. 9). If bowl deposits are considerable, wash lower element (Op. 24) and oil filter (Op. 36) at shorter intervals.

DRY AIR CLEANER

Cleaner should be seen to whenever associated indicator comes. Every year or whenever cracks are detected (by inserting a lighted bowl) renew outer cartridge. Do not wash or blow inner safety cartridge but replace every three times outer cartridge is cleaned, or every 400 hours.

FUEL FILTERS

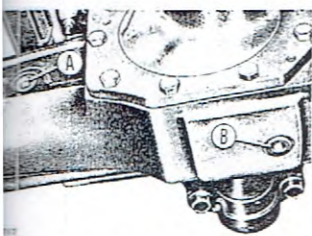
Replace second fuel filter (Op. 39) every four times first fuel cartridge renewed (Op. 22). Do not replace both filters simultaneously; replace second filter 40 to 50 hours after first. During warranty period second filter must only be removed (Op. 39) authorized personnel. Removal of seal on second filter and on fuel injection pump automatically invalidates FIAT Trattori Warranty.

CAPACITIES

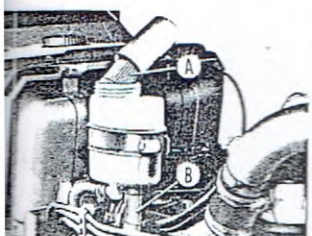
| CAPACITY | | | FIAT RECOMMENDED FLUIDS | INTERNATIONAL DESIGNATION |
|------------------------------|-------------------|--------------------------------|--|--|
| (dm ³) Liters | kg | Imp. Units | | |
| 12 14 | — | 2½ Gall 3 Gall | Water and "PARAFLO 11" (see page 55) | — |
| 73 2 | — | 16 Gall 3½ Gall | Diesel oil (siphoned and filtered) Water and FIAT "DP1" (1) | — |
| 7.3 6.7 0.55 | 6.6 6.0 0.5 | 1½ Gall 1½ Gall 1 Pint | oliofiat AMBRA SUPER | Diesel engine oil to MIL-L-2104D and service API CD. |
| 1.6 0.9 4.3 | 1.6 0.8 3.9 | 3¼ Pints 1½ Pints ¾ Gall | oliofiat TUTELA MULTI F | Oil for transmissions, oil-bath brakes and lift to Massey Ferguson MF 1135 and Ford M2 C86A requirements. Meets Service API GL 4. Viscosity SAE 20W/30 |
| 40 40.8 3.9 | 36 36.7 3.5 | 8½ Gall 8 Gall ¾ Gall | grassfiat TUTELA G9 | Lithium-calcium base grease, NLGI 2 |

© 50-50 solution - For temperatures below -10°C use DPS neat.

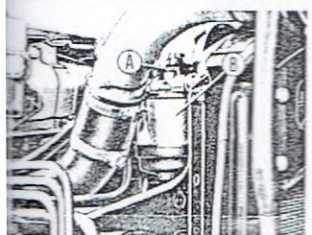
Every 800 Hours



37 FRONT AXLE CASING (DT VERSION) - Check that oil level is up to the level of plug A and top up as necessary (see Capacities).



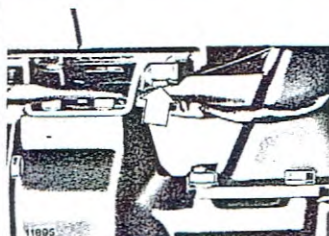
8 POWER STEERING - Remove filter A (press down and move sideways) and wash in kerosene together with plug.



9 SECOND FUEL FILTER - Back off screw A and replace cartridge B. See also under "Remarks".

NOTE

Replacement may be postponed to 1000 hours.



40 FUEL TANK - With tractor on level ground, engine shut off and fuel tank almost empty, proceed as follows:
- Remove fitting shown below tank and drain fuel to remove water and sediment.
- After draining, install fitting and refill (see Capacities). Bleed fuel system as directed on page 51.

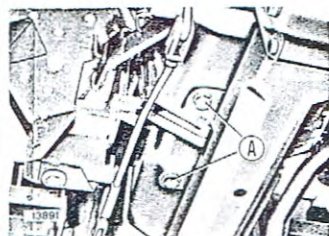
41 ENGINE VALVES - Check valve clearance (0.25 mm or .010 in, intake, and 0.35 mm or 0.014 in, exhaust) regardless of engine temperature.

42 CAB AIR FILTER - After cleaning 5 times, remove screws, take off cover and replace cartridge (see op. 14).

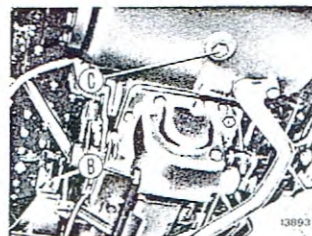
43 POWER STEERING - Disconnect lower piping B and allow to drain. Clean filter. Reconnect lower piping and refill (see Op. 38 and Capacities).

44 FUEL INJECTORS - Check popping pressure (230 to 238 bar, 235 to 243 kg/cm² or 3,336 to 3,425 psi). To remove, disconnect delivery pipes and take off brackets. Entrust to qualified personnel.

Every 1600 Hours

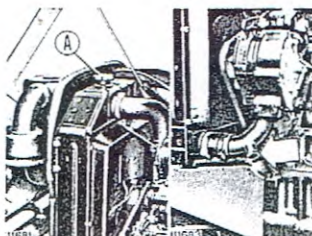


46 REAR TRANSMISSION AND LIFT - Drain oil through plugs A (remove drive shaft guard on DT version) and C (and plug B on DT version). Replace lift filter cartridge (see Op. 26). Refit plugs and refill with fresh oil (see Op. 27).

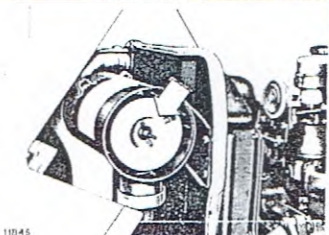


48 ENGINE COOLING SYSTEM - R - Move radiator hose plug show drain coolant and flush system (see page 51). Refill through A.

47 FINAL DRIVES - Drain oil from plug B and refill through A (see op. 32).



49 FRONT AXLE FINAL DRIVES (DT VERSION) - Move plug A lowermost and drain oil. Refill through A in horizontal position. (See Op. 31 and Capacities).



45 DRY AIR CLEANER - After cleaning 6 times remove outer cartridge A and replace together with inner safety cartridge B and seals E and F. See Op. 11 and 33. See also "Remarks".

50 FRONT AXLE CASING (DT) - Drain oil through plug B and refill through plug A (see Op. 37 and Capacities).

51 STARTER - Check commutator and brushes. Entrust to qualified personnel.

REMARKS

TIRES
Tires should be carefully cleaned before fitting or removal. Do not work with tires on the ground. Soap and water should be used to facilitate fitting and removal. Grease should be used only when strictly necessary.
When fitting a new or used tire, inflate to 3.5 bar or 50 psi to ensure that beads are properly retained, then restore to operating inflation rating.

TIRE INFLATION PRESSURES

Tire inflation ratings given are for guidance only. Such factors as tire make, ballast and service conditions, etc., may dictate higher or lower pressures. For further guidance contact tire manufacturers.

CAB BATH AIR CLEANER

In very dusty territories bowl oil level should be checked more frequently (Op. 9).
If bowl deposits are considerable, wash lower element (Op. 24) and clean filter (Op. 36) at shorter intervals.

DRY AIR CLEANER

Air cleaner should be seen to whenever associated indicator comes on. Every year or whenever cracks are detected (by inserting a lighted bulb) new outer cartridge.
Do not wash or blow inner safety cartridge but replace every three times after cartridge is cleaned, or every 400 hours.

FUEL FILTERS

Replace second fuel filter (Op. 39) every four times first fuel cartridge is renewed (Op. 22). Do not replace both filters simultaneously; replace second filter 40 to 50 hours after first.
During warranty period second filter must only be removed (Op. 39) by authorized personnel. Removal of seal on second filter and on fuel injection pump automatically invalidates FIAT Trattori Warranty.

2-wheel drive version - Tire inflation pressure

| Front tires | | Rear tires | |
|--|---------------------------|--|--|
| Mod. 55-66 | Mod. 60-66 | Mod. 50-66 | Mod. 60-66 |
| 6.00-16 p.r.6 or p.r.8 | 6.00-16 p.r.6 or p.r.8 | 13.6/12-28 p.r.6 14.9/13-28 p.r.6 12.4/11-32 p.r.6 | 14.9/13-28 p.r.6 16.9/14-28 p.r.6 16.9/14-30 p.r.6 12.4/11-36 p.r.6 |
| maximum 2.5 bar (kg/cm ² -36 psi) | | 1.5 bar (kg/cm ² -22 psi) | |

Model 55-66 DT - Tire inflation pressure

| Tire size | Front | | |
|------------------|---|---|---|
| | 8.3/8-24 p.r.6 | 8.00-20 p.r.6 | 11.2/10-20 p.r.8 |
| 12.4/11-36 p.r.6 | Front 1.5 bar (22 psi) Rear 1.5 bar (22 psi) | — | — |
| 13.6/12-28 p.r.6 | — | Front 1.8 bar (26 psi) Rear 1.2 bar (17.5 psi) | — |
| 14.9/13-28 p.r.6 | — | — | Front 2.0 bar (30 psi) Rear 1.1 bar (16 psi) |

Model 60-66 DT-Tire inflation pressure

| Tire size | Front | | | |
|------------------|---|---|---|---|
| | 9.5/9-24 p.r.6 | 11.2/10-20 p.r.8 | 11.2/10-24 p.r.6 | 12.4R-20 p.r.6 |
| 12.4/11-36 p.r.6 | — | — | Front 1.5 bar (22 psi) Rear 1.5 bar (22 psi) | — |
| 14.9/13-28 p.r.6 | — | Front 2.0 bar (30 psi) Rear 1.1 bar (16 psi) | — | — |
| 14.9/13-30 p.r.6 | Front 1.5 bar (22 psi) Rear 1.5 bar (22 psi) | — | — | Front 1.5 bar (22 psi) Rear 1.5 bar (22 psi) |
| 16.9/14-28 p.r.6 | Front 1.5 bar (22 psi) Rear 1.2 bar (17.5 psi) | — | — | Front 1.5 bar (22 psi) Rear 1.5 bar (22 psi) |
| 16.9/14-30 p.r.6 | — | — | Front 1.8 bar (26 psi) Rear 1.2 bar (17.5 psi) | — |