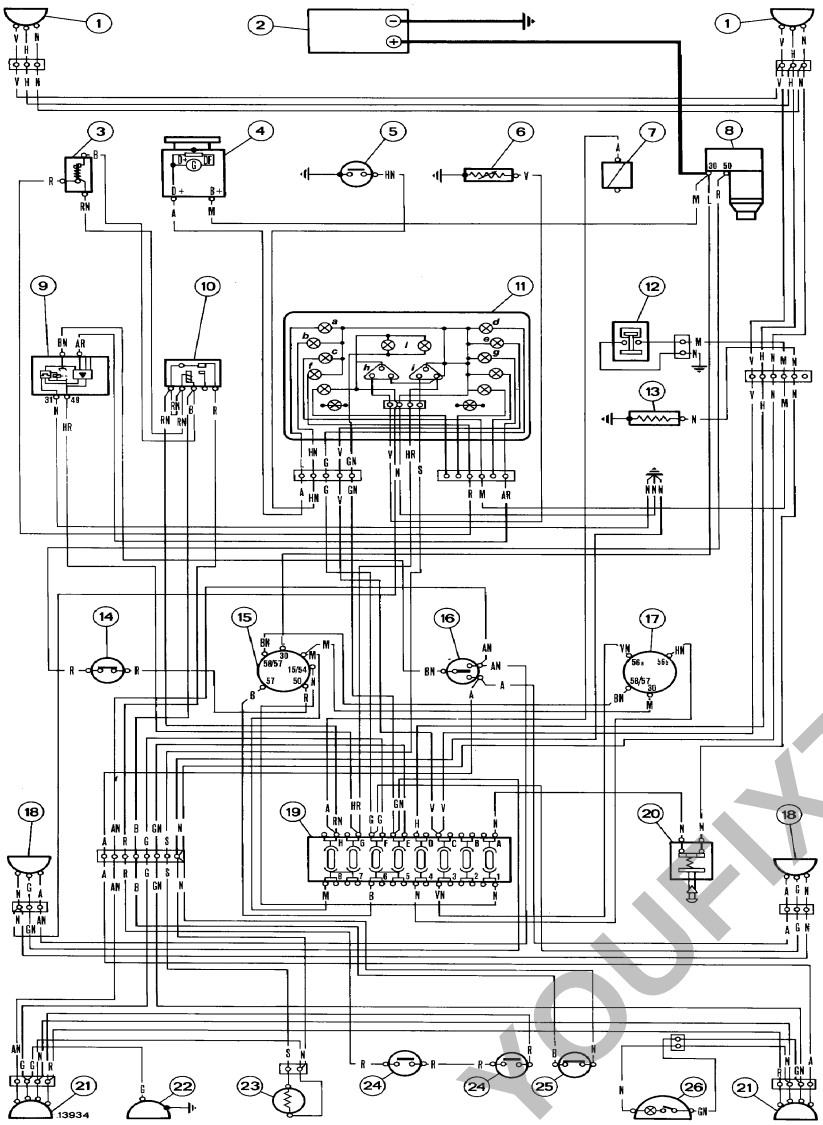


WIRING DIAGRAM

1. Headlamps.
2. Battery.
3. Parking brake on flasher.
4. Alternator.
5. Low engine oil pressure indicator sending unit.
6. Engine coolant temperature gauge sending unit.
7. Engine shut-off solenoid.
8. Starter.
9. Turn signal light flasher.
10. Single throw micro relay.
11. Multiple gauge:
    - *a.* Battery charge indicator;
    - *b.* Low engine oil pressure indicator;
    - *c.* Air cleaner restriction indicator;
    - *d.* Parking light on indicator;
    - *e.* High beam on indicator;
    - *f.* Parking brake on indicator;
    - *g.* Tractor turn signal on indicator;
    - *h.* Engine coolant temperature gauge;
    - *i.* Fuel gauge;
    - *l.* Panel light.
12. Air cleaner restriction indicator sending unit.
13. Thermostarter.
14. Starter inhibitor switch.
15. Starter switch.
16. Turn signal switch.
17. Lighting switch.
18. Front parking and turn signal lights.
19. Fuses.
20. Thermostarter control button.
21. Rear turn signal, parking and stop lights.
22. Number plate light.
23. Fuel gauge sending unit.
24. Stop light switch.
25. Parking brake on indicator sending unit.
26. Floodlight.

CABLE COLOUR CODE

A = Light blue	***L*** = Blue	***S*** = Pink
B = White	***M*** = Brown	***V*** = Green
C = Yellow	***N*** = Black	
H = Grey	***R*** = Red	

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MAINTENANCE

70-65 and 80-65 Servicing Schedule

Operation numbers are identical to those given in Servicing Chart.

◇ ADJUSTMENTS

6. Fan belt.
Deflection = 10 to 11 mm (½ in) applying 78 to 98 N (8 to 10 kg) (18 to 22 lb).

7. Master clutch. Force on lever handgrip = 14 to 16 daN (kg) (31 to 36 lb).
Steering clutches. Lever handgrip free travel = 65 mm (2.70 in).

8. P.T.O. clutch. Lever handgrip free travel = 70 mm (2.75 in).

10. Tracks. Sag 20 to 30 mm or ¾ to 1¼ in.

12. Brakes. Pedal free travel = 50 to 60 mm (2 to 2.5 in).

31. Fuel injectors. Release pressure 230 to 238 bar (235 to 243 kg/cm^2) (3,336 to 3,452 psi).

33. Engine valve clearance:
— Intake .... 0.25 mm (0.010 in)
— Exhaust . 0.35 mm (0.014 in)

38. Starter.

◯ FILTER CHANGE

18. First fuel filter.

24. Dry air cleaner inner cartridge.

25. Engine oil filter.

26. Hydraulic lift oil filter.

32. Dry air cleaner inner and outer cartridge.

34. Second fuel filter.

△ LEVEL CHECKS

1. Engine oil.

3. Electrolyte.

4. Radiator water.

5. Cleaner oil.

9. Track roller oil.

22. Final drive oil.

23. Transmission and lift oil.

27. Track carrier roller oil.

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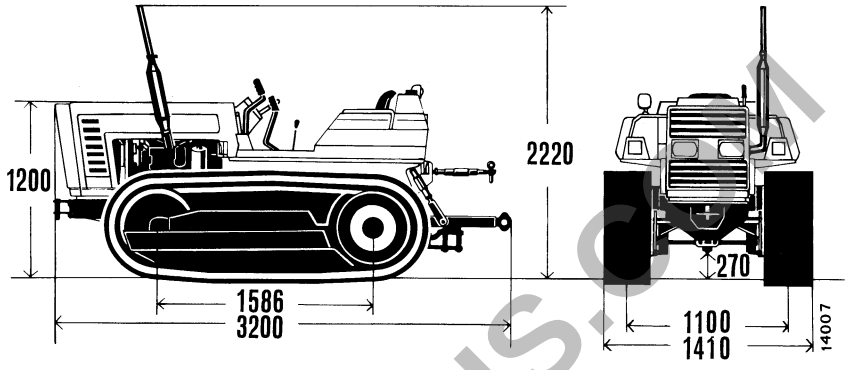
SPECIFICATION

DIMENSIONS (Model 70-65)

WEIGHT (Model 70-65)

Operating weight with hydraulic lift, drawbar, 3-point linkage, street plates, operator and full tanks ..... ***3,550 kg (7,828 lb)***

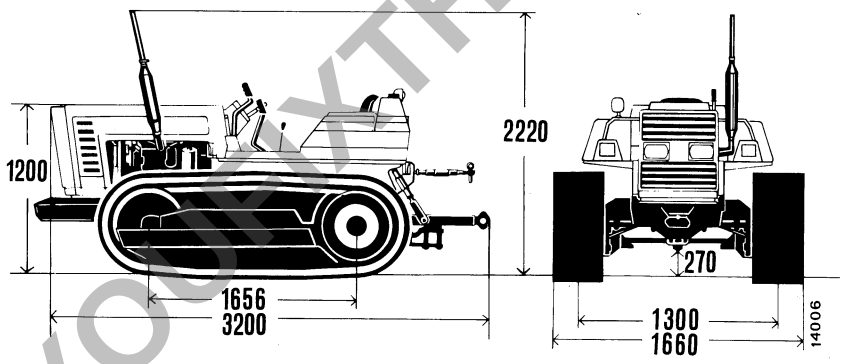
— As above with cast iron front ballast ..... ***3,700 kg (8,158 lb)***



DIMENSIONS (Model 80-65)

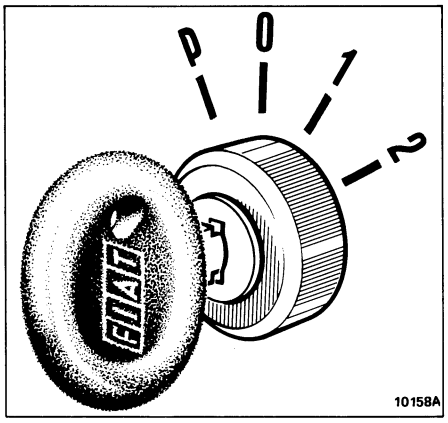
WEIGHT (Model 80-65)

Operating weight with hydraulic lift, drawbar, 3-point linkage, street plates, operator and full tanks ..... ***4100 kg (9,217 lb)***



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OPERATION
Starting and Stopping

Starter Switch

0. Off (key removable).
Engine shut-off: automatic fuel cut-off.

1. On.

2. Starting (when released key springs back to position ***1***).

P. Parking lights (key removable).

⚠ *CAUTION* ⚠

— *Never start or run tractor in a closed area.*

— *Ensure all controls are in neutral position before starting.*

— *Operate controls from operator's seat only.*

— *Switch off engine before carrying out any service or maintenance operations.*

— *Use steps and grab handles for getting on and off the tractor.*

— *Ensure that guards are correctly mounted.*

— *When driving on the road, always signal when stopping, turning or reducing speed.*

— *Use appropriate slow moving vehicle signs when operating on the public roads.*

ENGINE STARTING

a. After extended inactivity or when starting in cold climates, prime the fuel pump through twenty strokes and run engine for 5 to 10 seconds with injection pump in stop position.

b. Disengage the clutch lever to deactivate the starter inhibitor switch.

c. Move throttle lever to mid stroke.

d. Turn starter switch key to position ***2*** and release as soon as the engine fires.

NOTE

Prior to starting in cold weather cover radiator to warm up coolant quickly. Subsequently, remove covering.

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INSTRUMENTS AND CONTROLS

1. ***Instrument Panel*** (see page 16).

2. ***Steering Clutch Control Levers*** (see page 27).

3. ***Master Clutch Control Lever:***
   — Forward = Clutch engaged;
   — Back = Clutch disengaged.

⚠ CAUTION ⚠

To engage master clutch move lever fully forward.

4. ***Splitter Control Lever*** (see page 19).

5. ***Brake Pedals.***

6. ***P.T.O. Clutch Control Lever*** (see page 22).

7. ***P.T.O. Control Lever*** (see page 22).

8. ***Seat Suspension Ride Control*** (see page 36).

9. ***Tool Box.***

10. ***Hydraulic Lift Levers*** (see page 25).

11. ***Remote Control Valve Levers*** (see page 31).

12. ***Parking Brake Lever:***
    — Up = On;
    — Down = Off.

NOTE

*To release parking brake lever **12** depress button.*

13. ***Gear Lever*** (see page 19).

14. ***Control Board*** (see page 18).

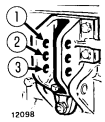
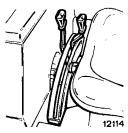
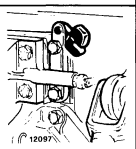
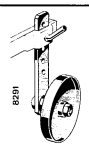
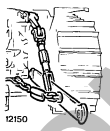
15. ***Throttle Lever.***

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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	Soil consistency	Top link mounting holes (*)	Operation	Top link support wedge	Gauge wheels	Check chains	NOTES
							
Mouldboard plows:							
— Single-furrow (one-way or two-way)	loose medium hard	1 or 3 2 or 3 3	draft or combined control	in	no	slack	Adjust check chains so that implement may move laterally through a maximum of 50 to 60 mm or 2 in.
— Double-furrow (one-way or two-way)	loose medium hard	1 2 3					
— Treble-furrow	lose medium hard	2 3					
Disc plows:							When implement is raised there should be no excessive lateral displacement.
— Two-disc	—	2					
— Three-disc	—	3					
— Four-disc	—	3					
Harrows, blade, tooth or disc	—	3	draft control	out	yes/no	slack	
Sub-soilers							
Ditchers							
Cultivators (all types)	—	3	draft control	out	yes/no	slack	
Weeders, ridgers, etc.	—	1 or 2	float	out	yes	taut	During operation with wheeled implements, move lift control levers fully forward.
			draft control	in	no	slack	
Carried seed drills and manure spreaders	—	3	position control	in	yes/no	taut	
Grader blades, augers, scrapers, manure forks, rear mounted transport boxes, etc.	—	3	position control	in	no	taut	
Mower bars (side and rear mounted), ***hay rakes and tedders, etc.***							
Front loaders, dump trailers, hydraulic towed implements	—	—	—	—	—	—	Remote control valve needed.
Tractor with implements	—	—	—	in	—	taut	
To facilitate implement hitching	—	—	—	—	—	slack	

(*) Mounting hole selection depends on height of implement.

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70-65, 70-65 Mountain, 80-65 - SERVICING CHART

(Supplement to Operator's Manual - Print No. 603.64.074.00R)

FIATAGRI

FIAT Trattori

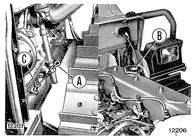
RUNNING-IN

During the running-in period (60 hours approximately) adhere to the instructions given under the flexible maintenance and 50 hours sections 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.

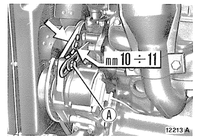
⚠ *CAUTION* ⚠ - On completion of the first 60 hours, replace the engine oil (operation 17) and the filter cartridges (operation 25). Moreover, replace the lift air filter (operation 26).

FLEXIBLE MAINTENANCE

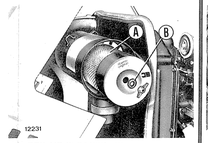
If performed at the correct intervals, the routine operations on the right will ensure sustained tractor efficiency. However, in addition to these, the important inspection and adjustment operations listed below should be performed at such intervals as dictated by environmental and working conditions.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



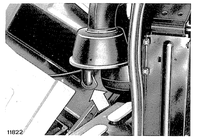
1 **ENGINE SUMP - Check oil level through dipstick A and top up through fillers B or C.**



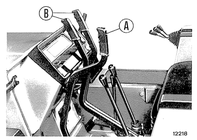
6 **FAN BELT - Belt should deflect 10-11 mm or ½ in under 78 to 98 N (8 to 10 kg or 18 to 20 lb). Adjust through nut A.**



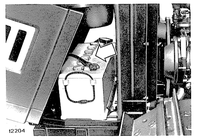
11 **DRY AIR CLEANER - When cleaner condition indicator light comes on, withdraw outer cartridge A and clean using either of the following:**
— **Compressed air at less than 59 bar, 7 kg/cm² or 86 psi directing flow inside toward exterior.**
— **Water and foamless detergent, subsequently rinsing at less than 2.9 bar, 3 kg/cm² or 42 psi and dry in air at below 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".



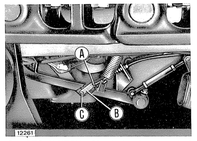
2 **AIR CLEANER - Depress rubber end to check condition of drain valve.**



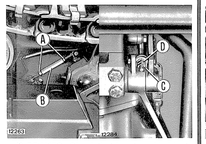
7 **MASTER CLUTCH (A) AND STEERING CLUTCHES (B) - Check clutch control adjustment (see "Remarks").**



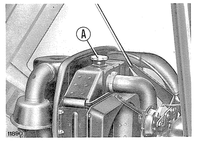
3 **BATTERY - Check electrolyte level with stationary engine, tractor on level ground and cold battery (see page 42).**



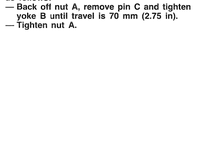
8 **PTO CLUTCH - Check that free travel of level handgrip is 70 mm (2.75 in). When travel is down to 35 mm (1.38 in) adjust clutch as follows:**
— **Back off nut A, remove pin C and tighten yoke B until travel is 70 mm (2.75 in).**
— **Tighten nut A.**



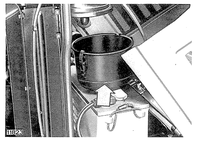
12 **BRAKES - Check that tree travel is identical for both pedals: 50 to 60 mm (2 to 2.4 in). If necessary, adjust each pedal as follows:**
— **Move brake lever down, back off locknuts A and turn sleeves B (one each side) until travel is as specified.**
— **Tighten locknuts A.**
Check parking brake adjustment as follows:
— **Move hand lever to rest position.**
— **Back off locknut C.**
— **Ensure that transverse pin is in light contact upward with pedal seat. If necessary adjust through nut D.**
Nut D should lock on toothed sector after 3 to 4 clicks.



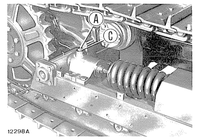
4 **RADIATOR - With cold engine remove plug A and check that coolant level is 1 cm (0.40 in) above internal lines.**



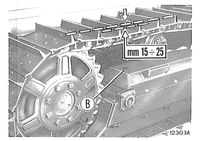
9 **TRACK ROLLERS AND IDLERS - Inspect and remedy any oil leaks (see operations 27 and 29). If necessary, consult skilled servicemen.**



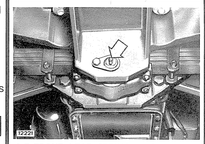
5 **OIL BATH AIR CLEANER - Allow engine to stand for 15 minutes and check that oil level is as specified.**



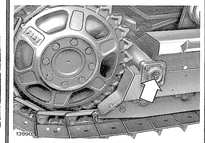
10 **TRACKS - Remove dirt from links and check that track sag between sprocket and carrier roller is 2-3 cm (¾ to 1¼ in). If sag exceeds 3 cm (1¼ in) remove cover B and inject grassofiat TUTELA G9 grease in connection A of adjusting cylinder, until correct track tension is obtained.**
If sag is less than 2 cm (¾ in), drain grease from the cylinder by backing off plug C a few turns: if necessary back up the tractor a few yards. Retighten the plug.



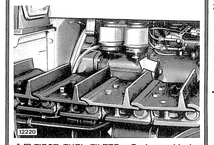
Every 50 hours



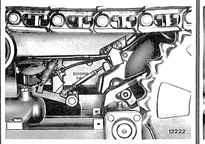
13 **FRONT LEAF SPRING PIVOT - Inject grassofiat TUTELA G9 grease.**



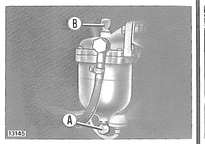
14 **REAR TRACK FRAME PIVOTS - Inject grassofiat TUTELA G9 grease (2 lubricators per side).**



15 **FIRST FUEL FILTER - Drain weekly by backing off bottom screw through 3 to 4 turns and priming fuel pump.**

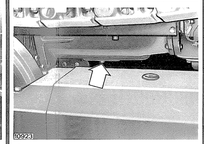


16 **STEERING CLUTCH LINKAGE - Inject grassofiat TUTELA G9 grease (one lubricator per side).**

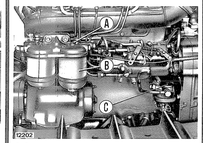


12A **FUEL SEDIMENTER - With fuel tanks full, back off lower screw A and drain water. To complete draining, back off upper screw B. Tighten screw A and when diesel oil issues without air bubbles, tighten screw B.**

Every 200 hours

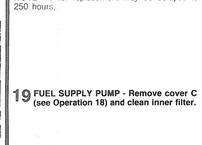


17 **ENGINE SUMP - Remove plug, drain and refit through B or C (see "Capacities" and operation 1).**

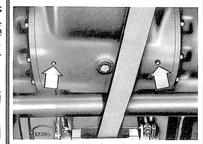


18 **FIRST FUEL FILTER - Remove screw A and replace cartridge B. Bleed system as directed on page 40.**

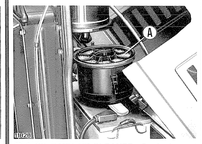
NOTE - Filter replacement may be delayed to 250 hours.



19 **FUEL SUPPLY PUMP - Remove cover C (see Operation 18) and clean inner filter.**

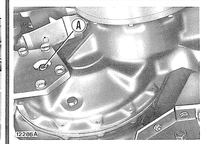


20 **STEERING CLUTCHES - Drain sediments through two lower plugs.**

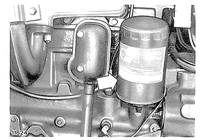


21 **OIL BATH AIR CLEANER - Soak element A in kerosene. Allow to drain and wet with oil prior to installation.**

Every 400 hours



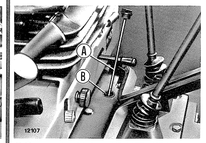
22 **FINAL DRIVES - Check that oil level is up to plug A and top up as necessary (use oliofiat TUTELA MULTI F).**



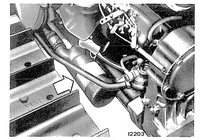
25 **ENGINE OIL FILTER - Replace filter, oil seal, screw cartridge to contact engine block and tighten by hand through a further ¾ turn.**



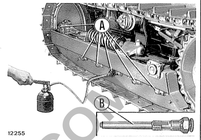
28 **OIL BATH AIR CLEANER - Clean all parts. Soak elements in kerosene for half an hour. Allow to drain and wet with oil prior to installation.**



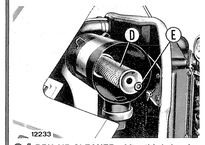
23 **TRANSMISSION AND LIFT - With tractor on level ground, stop engine, lower lift arms and check that lubricant level is at "MAX" on dipstick A. Top up through filler B.**



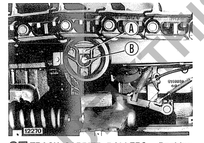
26 **LIFT OIL FILTER - Replace filter, oil seal, screw cartridge to contact engine block and tighten by hand through a further ¾ turn. Top up oil (operation 23).**



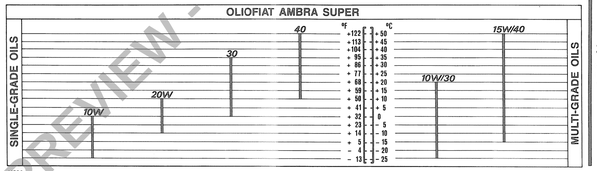
29 **TRACK ROLLERS AND IDLERS - Unscrew plugs A (6 per track model 70-65, or 7 per track, model 80-65): if the oil which issues is clean, the idlers and rollers are correctly lubricated. If no oil at all issues from plugs or the oil is mixed with water, install connection B (contained in tool kit) in place of plug A and, using a pump, inject oil until clean oil issues from the grooves on connection B (see "Capacities" for oil grade). Remove connection B and refit plug A.**



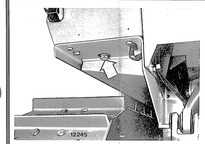
24 **DRY AIR CLEANER - After third cleaning of outer cartridge, replace inner cartridge D. Also replace seal E if damaged.**



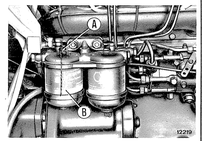
27 **TRACK CARRIER ROLLERS - Position roller with plug A uppermost, then check that oil level reaches plug. If necessary, inject oil through lubricator B (see "Capacities").**



Every 800 hours



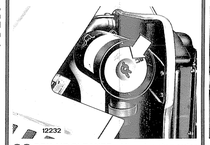
30 **FUEL TANKS - With tanks almost empty, remove plug and drain sediment.**



34 **SECOND FUEL FILTER - Back off screw A and replace cartridge B. Bleed as directed on page 40. See also under "Remarks".**

NOTE - Filter replacement may be delayed to 1,000 hours.

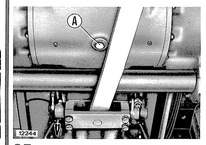
31 **FUEL INJECTORS - Have release pressure (230 to 238 bar, 235 to 243 kg/cm² or 3,336 to 3,452 psi) checked by trained servicemen. To remove injectors, disconnect delivery pipes and take off brackets.**



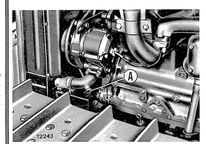
32 **DRY AIR CLEANER - After cleaning outer cartridge A six times, replace together with inner cartridge D and seals B and E (see operations 11 and 24).**

33 **ENGINE VALVES - Have valve clearance checked by trained service personnel. Correct clearance is 0.25 mm or 0.010 in. intake, and 0.35 mm or 0.014 in. exhaust, regardless of engine temperature.**

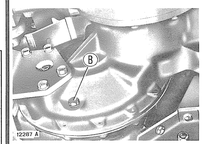
Every 1,600 hours



35 **TRANSMISSION AND LIFT - Drain oil from plug A. Clean plug magnetic rod and fill through filler B (see operation 23).**



36 **COOLING SYSTEM - Drain coolant through plug A on radiator hose, and flush system (see page 45, operator's manual).**



37 **FINAL DRIVES - Drain from bottom plug B (1 per final drive) and refill with fresh oil (see operation 22).**

38 **STARTER - Have commutator and brushes checked by trained service personnel.**

CAPACITIES

DESCRIPTION	CAPACITIES dm³ (litres)	CAPACITIES kg	CAPACITIES Imp. units (Imp. Gall.)	FIAT RECOMMENDED FLUIDS	INTERNATIONAL DESIGNATION
Coolant	13	—	3	Water and ***"PARAFLU 11"*** (see page 45)	—
Fuel	75	—	16½	Diesel oil (syphoned and filtered)	—
Engine oil (including filters)	7.3	6.6	1½	***oliofiat AMBRA SUPER*** (see table above)	Diesel oil to "MIL-L-2104 C" service API CD
Sump oil	6.7	6	1½		
Cleaner oil	0.95	0.85	¼		
Drive train (transmission, bevel drive) and lift oil	33.3	30	7¼	***oliofiat TUTELA MULTI F***	Transmission, oil bath brake and hydraulic lift oil. Meets Massey Ferguson MF 1135 and Ford M2C86A
Track roller, idler and carrier roller oil	—	—	—		
Final drive oil (each)	3.5	3.1	¾		
Lubricator grease	—	—	—	***grassofiat TUTELA G9***	Lithium-calcium base grease, NLG1 2

REMARKS

OIL BATH AIR CLEANER

When working in dusty areas check oil level in bowl (operation 5) more frequently; if sediments are considerable wash lower element (operation 21) and clean entire filter (operation 28) at shorter intervals than those specified alongside.

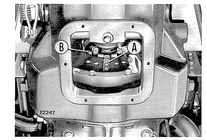
DRY AIR CLEANER

Cleaner should be checked whenever associated condition indicator light comes on. Every year or whenever cracks are detected by inserting a lighted bulb, replace 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

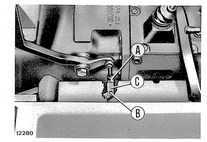
Replace second fuel filter every four times first fuel cartridge is replaced (operation 34). Do not replace second filter simultaneously with first filter, but wait 40-50 hours. During warranty period second filter must only be removed (operation 34) by authorised personnel. Removal of seal on second filter and on fuel injection pump automatically invalidates ***FIAT Trattori warranty***.

MASTER CLUTCH



Clutch engagement requires an effort of 135 to 157 or 14 to 16 kg (31 to 36 lb) on lever grip (operation 7). When this effort is down to 78 to 98 N or 8 to 10 kg (18 to 22 lb) adjust clutch as follows:
— Remove bottom cover on clutch housing;
— Disengage clutch and move transmission and splitter levers to neutral;
— Rotate clutch using tool provided until spring ***A*** appears in the opening;
— Engage a gear;
— Using tool provided lift spring ***A*** and turn lock ring ***B*** anti-clockwise (tractor seen from rear) to engage spring in the next slot.

A correct adjustment usually requires lock ring displacement through two slots. Do not turn lock ring more than necessary, as the resulting excessive force could prevent full clutch engagement and cause premature clutch wear.



Clutch lever adjustment - After adjusting master clutch, check that control lever ***A*** (operation 7) does not foul engine panelling, otherwise adjust as follows:
— Back-off locknut ***A***, remove pin ***B*** and screw in fork ***C*** to bring lever closer to operator's seat or back off fork to move lever further away;
— Replace pin ***B*** and check that lever ***A*** (operation 7) does not foul rear hood when clutch is engaged;
— Tighten locknut ***A***.

Steering clutch lever adjustment - After adjusting levee free travel check for lever misalignment. To adjust back off nut ***F*** and turn cam ***D*** as necessary. Also adjust rubber pads ***E*** to obtain a 0.5 mm (0.020 in) clearance between support and cam ***D***.

STEERING CLUTCHES - When free travel of steering clutch lever grips is down to 35 mm (1½ in), adjust each clutch as follows:
— Back off bolts ***A***;
— Using the wrench provided, tighten hexagon ***B*** to bring free travel at lever grip to 65 mm (2½ in);
— Tighten bolts ***A***.

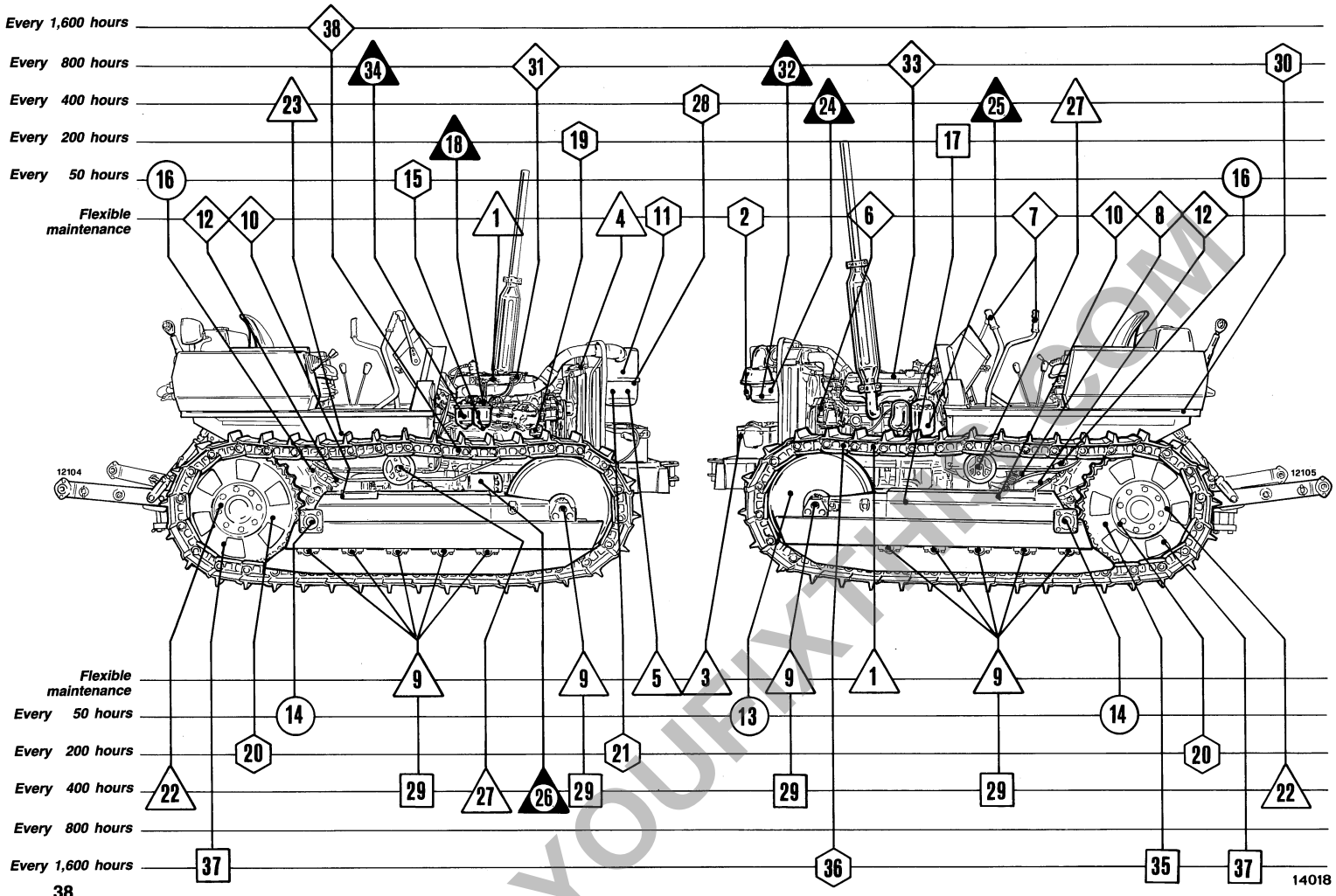
ROLLERS AND TRACK IDLERS

When tractor is operated on swampy, muddy or sandy ground, operations 27 and 29 must be performed more frequently than specified.

Caution - Also adhere to operation 9.

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