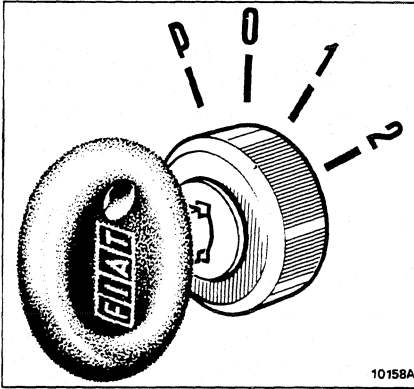


CONTROLS AND INSTRUMENTS

1. **Control board** (see page 19).
2. **Master clutch pedal.**
3. **Reach adjustment lever** (see page 49).
4. **Reverser lever.**
5. **P.T.O. clutch lever** (see page 26).
6. **P.T.O. control** (see page 26).
7. **Four wheel drive control** (see page 85).
8. **Lift-O-Matic control** (see page 33).
9. **Hydraulic lift control levers** (see page 34).
10. **Parking brake lever** (w/release button):
 - Up = Applied
 - Down = Released
11. **Throttle lever.**
12. **Splitter control lever** (see pages 23 and 24)
13. **Differential lock pedal** (see page 25).
14. **Accelerator pedal.**
15. **Gear shift lever** (see pages 23 and 24)
16. **Brake pedals.**
17. **Instrument panel** (see page 17).

CAUTION

Depress incorporated button to release parking brake lever 10.



Starter Switch

- 0. = OFF (key removable)
Engine shut off, automatic engagement of fuel delivery cut-out device.
- 1. = ON
Engine starting circuit energized. Warning indicators and instruments activated. Various users energized.
- 2. Starting (when released key springs back to position 1).
- P. Parking lights, instrument lights and work light switch (key removable).

⚠ WARNING ⚠

- 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 public roads.

OPERATION

ENGINE STARTING

- a. After extended inactivity or when starting in cold weather, prime fuel pump through 20 strokes and run engine for 5 to 10 seconds with injection pump in fuel shutoff condition.
- b. Declutch to activate starter inhibitor switch.
- c. Move throttle lever to mid-stroke .
- d. Turn starter switch key to position 2 and release as soon as engine fires.

MAINTENANCE

Maintenance Schedule (55-88 60-88 65-88 70-88 80-88)

Numbers correspond to those of operations listed in the attached Servicing Chart.

◇ ADJUSTMENTS

- 3. Fan belts. Deflection = 10 to 11 mm ($\frac{1}{2}$ in) applying a 78 to 98 N (8 to 10 kg or 18 to 22 lb) load.
- 4. P.T.O. clutch. Withdrawal lever pin travel = 3.5 mm or 0.138 in.
- 10. Master clutch. Pedal free travel = 190 mm or $7\frac{1}{2}$ in (170 mm or $6\frac{3}{4}$ in for tractors with cab).
- 36. Parking brake grip free travel = 3 clicks to fully applied position.
- 48. Engine valves (cold).
Clearance 0.25 mm or 0.010 in intake and 0.35 mm or 0.014 in exhaust.

- 49. Fuel injectors. Release pressure 230 to 238 bar (235 to 243 kg/cm² or 3,335 to 3,525 psi).

- 52. Starter.

△ LEVEL CHECKS

- 2. Brake fluid reservoir.
- 6. Power steering reservoir.
- 7. Oil-bath air cleaner.
- 9. Battery (see page 70).
- 11. Engine sump.
- 14. Windshield washer fluid reservoir.
- 35. Rear drive housing and lift oil.
- 37. Front axle oil (DT) (70-88 and 80-88).
- 40. Front final drive oil (DT).
- 42. Front axle oil (DT) (55-88 60-88 65-88).

□ FLUID CHANGE

- 26. Engine sump.
- 47. Power steering.
- 50. Rear drive housing and lift oil.
- 54. Front final drive oil (DT).
- 55. Front axle oil (DT).

△ FILTER CHANGE

- 28. First fuel filter (4 cyl engines).
- 29. Fuel filter (3 cyl engines).
- 31. Dry air cleaner inner cartridge.
- 32. Lift oil filter.
- 41. Engine oil filter.
- 43. Second fuel filter.
- 44. Comfort cab air filter.
- 45. Dry air cleaner inner and outer cartridge.

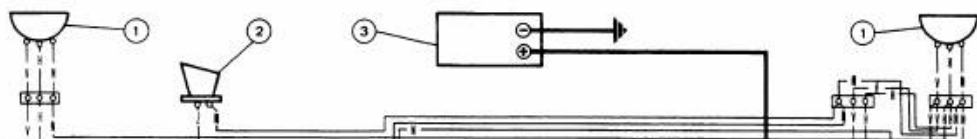
SPECIFICATIONS

Standard tire matchings	55-88	60-88	65-88	70-88	80-88
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PREVIEW -



WIRING DIAGRAM

NOTE - Detail shows the start-pilot cold start device 40 which can be fitted as an alternative to the thermostarter.

★ To starter connection 50.

● To starter switch connection 50.

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Safety Precautions

THIS SYMBOL IS YOUR SAFETY ALERT SIGN

It means:



«ATTENTION - DANGER
YOUR SAFETY IS INVOLVED»



Read and heed all safety instructions carrying the signal words **WARNING**, **CAUTION** and **DANGER**.

GENERAL

■ You 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.

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

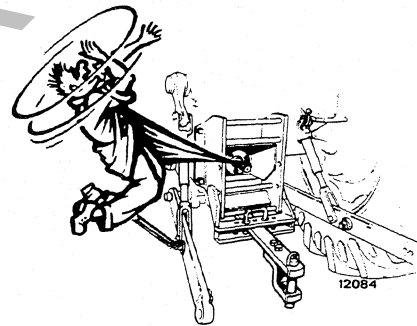
■ Read this manual thoroughly before attempting to start, operate, service or refuel the tractor. A few minutes reading will save time and trouble later.

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

■ Tractor should be operated only by responsible persons suitably trained and duly authorized.

■ 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.

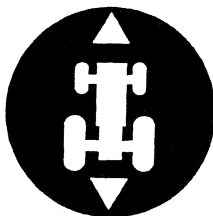


Transmission with Reverser

(Mods. 65-88, 70-88 and 80-88)

WARNING

With engine running and only one transmission lever in neutral, accidental shifting of that lever could result in tractor starting and consequent risk of accidents. Always move both levers to neutral and stop engine before leaving tractor.



Transmission, splitter and reverser are controlled by three separate levers.

Transmission (lever **A**) provides four gear ratios (1, 2, 3, 4).

Splitter (lever **B**) provides three drive ranges:

- I = Low.
- II = Normal.
- III = High.

Lever 4, page 15, is used to select direction of travel (forward or reverse).

Thus **twelve** forward and **twelve** reverse speed are available.

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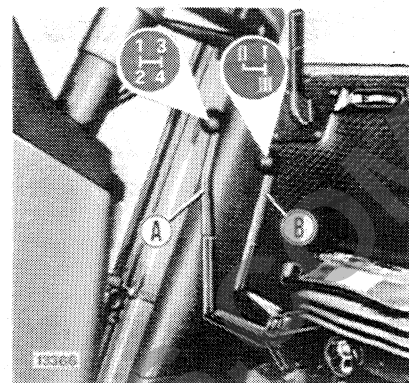
Reverser in neutral.
(Forward travel, lever 4, page 15 pushed forward).



Reverser engaged
(Reverse travel, lever 4, page 15, pulled back).

To change gear range stop the tractor, push the splitter lever to the right and move it forward for low and back for high.

To change up and down in the same range (reverse included) depress the master clutch pedal and shift the gear lever. Tractor need not be stopped, as all gears are synchromesh.



Splitter lever positions.



Low.



Normal.



High.

For drive reversal, stop the tractor, shift reverser lever forward (forward drive) or backward (reverse drive).

REAR TRACKS

Rear wheel disc may be fitted with dish facing either inside or outside. For each position track width varies as shown.

A Mods. 55-88 60-88 65-88

B Mods. 70-88 80-88

Depending on tire size, rear track widths shown may be obtained starting from the following minimum widths (70-88 and 80-88)

16.9/14-34	1500 mm	4 ft 11 in
13.6/12-38	1400 mm	4 ft 7 in
18.4/15-30	1600 mm	5 ft 3 in

When changing rear track width, ensure that arrow molded on tire faces in the direction of forward travel.

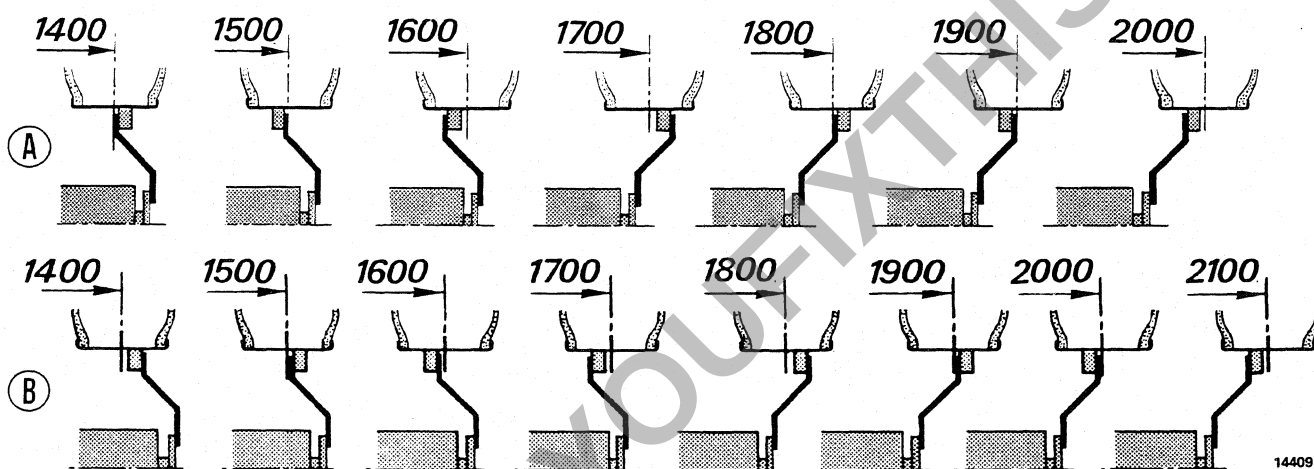
Always check that front and rear wheels are symmetrical with respect to the tractor centreline.

Torque data:

- Disc to hub 255 N-m, 26 kgm or 187 ft lb.
- Disc to rim 245 Nm, 25 kgm or 180 ft lb.

CAUTION

Select the most suitable rear track width first, and then the front track.



14409

PANELLING AND CAB MAINTENANCE

Weathering Protection

FIATAGRI has long since introduced a number of provisions aimed at improving tractor protection against deterioration and corrosion phenomena resulting from various external factors, some of which are listed below:

- Atmospheric salinity and humidity.
- Air pollution (industrial areas).
- Abrasive action by solid particles.
- Use of machine in conditions where organic and/or chemical aggressive agents are present.
- Physical damages such as dents, abrasions and deep scoring marks.

The technical remedies adopted were:

- Use of high corrosion resistant steel panellings.
- Painting systems and products selected to make the tractor meet particular corrosion and abrasion resistance requirements.
- Application of adequate hardening plastic protective coatings in all areas known to be more easily

exposed to corrosion factors (sheet metal edges, welded overlaps and joints).

- Application of specific waxy products as protectants for tractor outdoor storage.

But unfortunately, the weathering agents react differently in relation to the varying environmental and owner use conditions: for this reasons, if you devote adequate care to your machine you can contribute in a determinant way to the preservation of the tractor.

The following pointers were laid down with this basic concept in mind:

Panelling and Cab

When abrasion or deep scoring marks baring the metal underneath are present, immediate remedial action is necessary by paintwork touchups using genuine products, as follows:

- Sand area involved accutately.

- Apply primer.
- Allow to flashoff and sand again, this time lightly.
- Apply paint.
- Polish to restore original gloss.

Hose down equipment regularly in relation to work conditions and environment. Wash more frequently in seaside and heavily polluted areas, and **immediately** after exposure to organic materials or chemicals.

Use low pressure water hose, sponge down with light detergent solution (2 to 4% in water). Rinse sponge frequently, rinse equipment thoroughly and dry with compressed air, if possible.

Do not wash equipment after prolonged exposure to sunlight or immediately after stopping engine. Allow parts to be washed to cool down, otherwise paintwork a light coat of silicone wax occasionally. Apply polish to remove traffic film.

TRAVEL SPEEDS, at full load engine rpm.

Gear	Rear Tires											
	55-88		55-88 60-88								60-88 65-88	
	14.9/13-28		14.9/13-30		16.9/14-28		12.4/11-36		16.9/14-30		13.6/12-36	
	Kph	Mph	Kph	Mph	Kph	Mph	Kph	Mph	Kph	Mph	Kph	Mph
1st Low creeper	0.3	0.18	0.3	0.18	0.3	0.18	0.3	0.18	0.3	0.18	0.3	0.18
2nd « »	0.5	0.31	0.5	0.31	0.5	0.31	0.5	0.31	0.5	0.31	0.5	0.31
3rd « »	0.6	0.37	0.6	0.37	0.6	0.37	0.6	0.37	0.6	0.37	0.6	0.37
4th « »	0.9	0.56	0.9	0.56	0.9	0.56	1.0	0.62	1.0	0.62	1.0	0.62
1st Normal creeper	0.7	0.43	0.7	0.43	0.7	0.43	0.7	0.43	0.8	0.49	0.8	0.49
2nd « »	1.1	0.68	1.1	0.68	1.1	0.68	1.2	0.75	1.2	0.75	1.2	0.75
3rd « »	1.3	0.80	1.4	0.86	1.4	0.86	1.4	0.86	1.4	0.86	1.5	0.93
4th « »	2.1	1.30	2.2	1.36	2.2	1.36	2.3	1.43	2.3	1.43	2.4	1.49
1st Low	1.7	1.05	1.7	1.05	1.7	1.05	1.8	1.12	1.8	1.12	1.9	1.18
2nd «	2.6	1.61	2.6	1.62	2.7	1.67	2.8	1.74	2.8	1.74	2.9	1.80
3rd «	3.1	1.92	3.2	1.99	3.3	2.05	3.4	2.11	3.4	2.11	3.5	2.17
4th «	5.0	3.10	5.1	3.17	5.2	3.23	5.4	3.36	5.4	3.36	5.6	3.48
1st Normal	3.9	2.42	4.0	2.48	4.1	2.54	4.2	2.61	4.2	2.61	4.3	2.67
2nd «	6.0	3.72	6.2	3.85	6.3	3.91	6.4	3.98	6.5	4.04	6.7	4.16
3rd «	7.3	4.53	7.6	4.72	7.7	4.78	7.9	4.91	8.0	4.97	8.2	5.10
4th «	11.7	7.27	12.0	7.46	12.2	7.58	12.6	7.83	12.7	7.89	13.0	8.08
1st High	9.1	5.65	9.4	5.84	9.6	5.96	9.9	6.15	9.9	6.15	10.2	6.34
2nd «	14.1	8.76	14.5	9.01	14.8	9.16	15.2	9.45	15.3	9.51	15.7	9.76
3rd «	17.3	10.75	17.8	11.06	18.1	11.24	18.6	11.56	18.7	11.62	19.3	11.99
4th «	27.5	17.08	28.3	17.59	28.7	17.83	29.6	18.39	29.8	18.52	30.7	19.08
1st Low reverse	1.6	0.99	1.6	0.99	1.6	0.99	1.7	1.06	1.7	1.06	1.8	1.12
2nd « »	2.4	1.49	2.5	1.56	2.5	1.56	2.6	1.62	2.6	1.62	2.7	1.68
3rd « »	3.0	1.86	3.1	1.92	3.1	1.92	3.2	1.99	3.2	1.99	3.3	2.05
4th « »	4.7	2.92	4.9	3.04	5.0	3.11	5.1	3.17	5.1	3.17	5.3	3.29
1st Normal reverse	3.7	2.30	5.8	2.36	3.9	2.42	4.0	2.48	4.0	2.48	4.1	2.55
2nd « »	5.7	3.54	5.9	3.67	6.0	3.73	6.1	3.79	6.2	3.85	6.3	3.91
3rd « »	7.0	4.35	7.2	4.47	7.3	4.53	7.5	4.66	7.6	4.72	7.8	4.85
4th « »	11.1	6.70	11.5	7.15	11.6	7.09	11.9	7.39	12.0	7.46	12.4	7.71
1st High reverse	8.7	5.41	9.0	5.59	9.1	5.64	9.4	5.84	9.4	5.84	9.7	6.03
2nd « »	13.4	8.33	13.9	8.64	14.0	8.68	14.4	8.94	14.5	9.01	15.0	9.32
3rd « »	16.4	10.19	17.0	11.12	17.2	10.69	17.7	11.00	17.8	11.06	18.3	11.37
4th « »	26.1	16.22	27.1	16.84	27.3	16.96	28.1	17.46	28.3	17.59	29.1	18.08

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