Wiring diagram - Cab version.

Differences from diagram on page 59:

1. Heater.

2. Windshield wiper motor.

3. Front working light relay.

4. Rear working light relay.

5. Radio interference suppressor capacitor.

6. Windshield wiper switch.

7. Washer switch.

8. Fan switch.

9. Speakers.

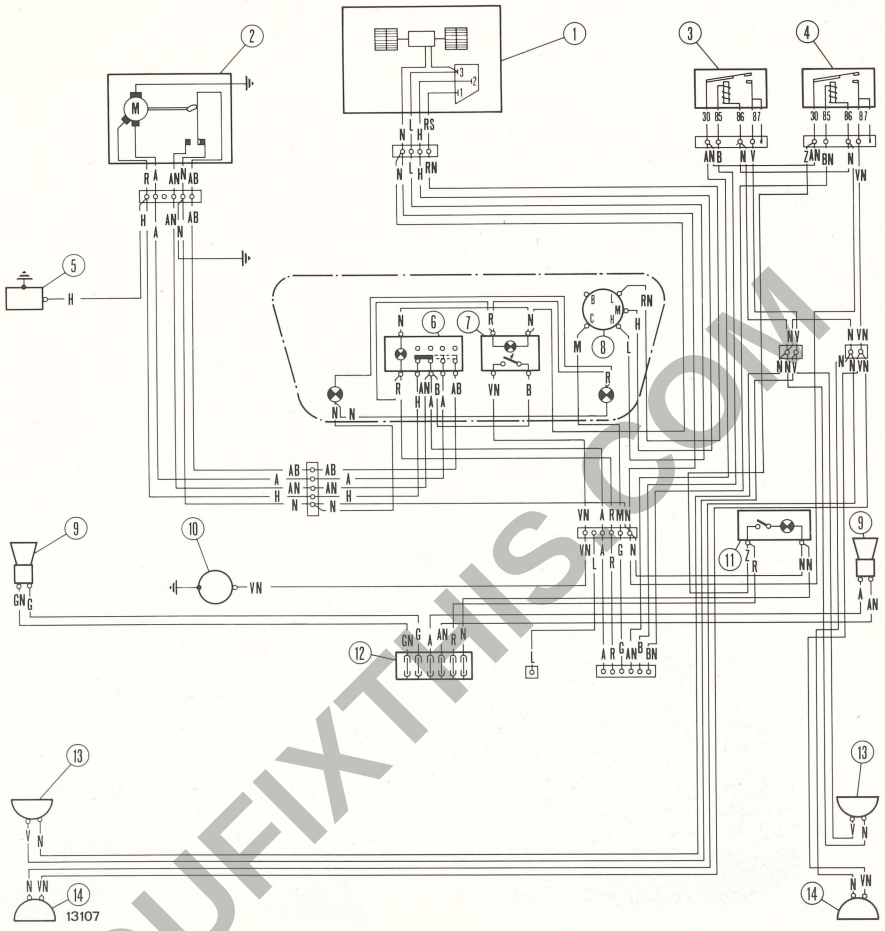
10. Washer pump.

11. Lamp and switch.

12. Terminal box.

13. Front working lights.

14. Rear working lights.



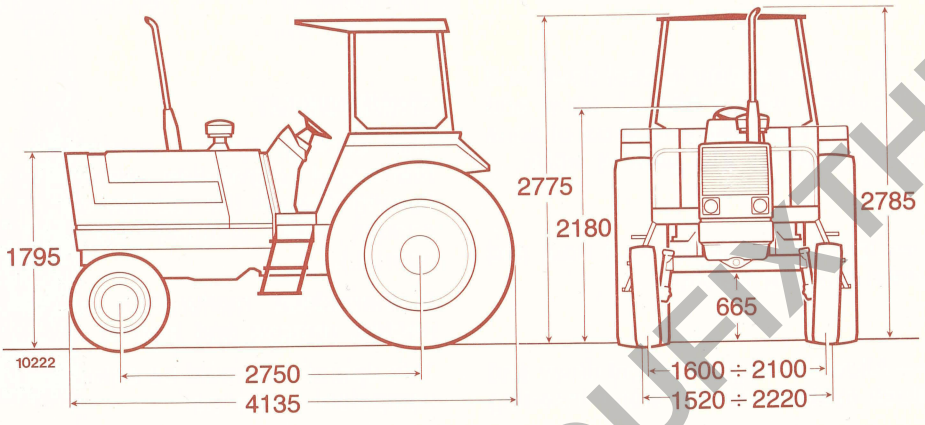
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SPECIFICATION

DIMENSIONS - Model 130-90
Front tyre size 9.00-16, rear tyre size 18.4/15-38.

WEIGHTS
Operating weight with 9.00-16 and 18.4/15-38 tyres, cast iron wheel discs, lift and 3-point linkage, tow hook and cab ***5,210 kg or 11,588 lb***
As above with front weights (10 plates) and 6 rings on rear wheels ..... ***6,000 kg or 13,230 lb***



DIMENSIONS - Model 140-90
Front tyre size 9.00-16, rear tyre size 18.4/15-38.

WEIGHTS
Operating weight with 9.00-16 and 18.4/15-38 tyres, cast iron wheel discs, lift and 3-point linkage, tow hook and cab . ***5,810 kg or 12,799 lb.***
As above with front weights (10 plates) and 6 rings on rear wheels ..... ***6,600 kg or 14,553 lb***

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Maintenance Schedule (130-90 / 140-90)

Numbers correspond to operation described in the Servicing Chart inside back cover.

◇ ADJUSTMENTS

4. Fan belts. Deflection 10 to 15 mm (½ in) applying a 118 N, 12 kg (26 lb) load.

7. Air conditioner compressor drive belts.
Deflection = 18 to 21 mm (0.70 to 0.82 in) applying a 78 to 98 N (8 to 10 kg or 18 to 22 lb) load.

11. Turbocharger.

29. Parking brake grip free travel = 60 mm or 2.36 in.

37. Engine valves.
Clearance 0.25 mm or 0.0098 in inlet, and 0.35 mm or 0.0137 in exhaust.

38. Fuel injectors. Release pressure 221 to 230 bar (225 to 235 kg/cm^2 or 3,204 to 3,335 psi).

46. Starter.

47. Turbocharger.

△ FILTER CHANGE

7. Receiver-drier.

25. Dry air cleaner inner cartridge.

26. Engine oil filters.

27. Lift oil filters.

30. Transmission oil filter.

33. Fuel filters.

36. Dry air cleaner inner and outer cartridge.

39. Cab air filters.

⬡ CLEANING

1. Air precleaner.

7. Air conditioner evaporator and condenser.

8. Dry air cleaner outer cartridge.

12. Cab air filters. Cab recirculating air filter.

13. Fuel sedimenter.

21. Fuel condensate drain.

24. Fuel filter.

34. P.T.O. oil filter.

35. Fuel tank.

41. Engine cooling system (see page 59).

48. Engine cooling system (cab version), see page 84.

□ FLUID CHANGE

22. Engine sump.

42. Front axle oil (DT).

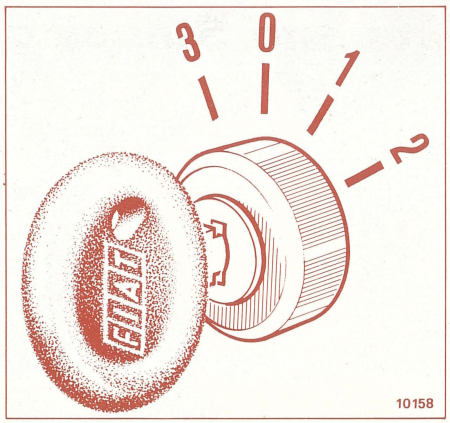
43. Transmission oil.

44. Rear axle and lift oil.

45. Front final drive oil (DT).

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Starter Switch

0. Hazard warning lights and single-pole socket (key removable).

1. On.

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

3. Parking lights (key removable).

DANGER

- *Never run tractor in a closed area.*
- *Ensure all controls are in neutral position before starting.*
- *Operate controls from driver's seat only.*
- *Switch off engine before carrying out any maintenance operations.*
- *Use steps and grab handles for getting on and off the tractor.*
- *Ensure that guards are correctly mounted.*
- *During use on the road transfer, always signal when stopping, turning or reducing speed.*
- *Use appropriate slow moving vehicle symbols when operating on public roads.*

ENGINE STARTING

a. With tractor on level ground and lift arms lowered, turn starter switch key to ***1***. In this position engine oil level, rear transmission and lift oil level, transmission oil level, engine coolant level, brake fluid level and engine oil pressure indicator sending unit efficiency may be checked by the operator. Green go-ahead light should light up when all conditions are normal. If red general warning light, any indicator and buzzer come on signalling malfunction, rectify as necessary.

b. Declutch to activate starter inhibitor switch.

c. Push in shut-off control ***H*** (page 19).

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CONTROLS AND INSTRUMENTS

1. ***Tool box.***

2. ***Splitter control lever*** (see page 23).

3. ***Instrument panel*** (see page 16).

4. ***Master clutch pedal.***

5. ***Parking brake lever*** (red button):
   — Up = On;
   — Down = Released.

NOTE

*Depress red button to release parking brake lever **5**.*

6. ***Reverser lever*** *(see page 74).*

7. ***Seat suspension ride control*** (see page 43).

8. ***Lift response adjuster lever*** (see page 30).

9. ***Differential lock pedal.***

10. ***Variospeed sensitivity control knob*** (see page 28).

11. ***Remote control valve levers*** (see page 39).

12. ***P.T.O. clutch lever*** (see page 24).

13. ***Lift-O-Matic*** (see page 29).

14. ***Throttle lever.***

15. ***Hydraulic lift controls*** (see page 30).

16. ***Accelerator pedal.***

17. ***Brake pedals.***

18. ***Control board*** (see page 19).

19. ***Gear lever*** (see page 23).

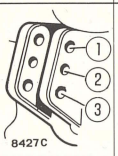
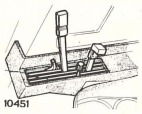
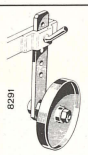
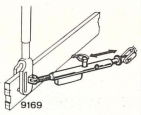
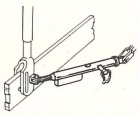
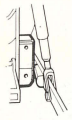
20. ***Steering lock*** (see page 43).

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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 Link Position		Check Block Position (•)		REMARKS
								
Moldboard Ploughs — Single-, double- and treble-furrow (one-way or two-way) — Four- and five-furrow	1 - 2 - 3	Draught or combined control	No	■		■		
Disc Ploughs — Two-disc — Three-disc — Four-disc								
Harrows, blade, tooth or disc	1 - 2 - 3	Draught control	No	■		■		
Sub-soilers								
Ditchers								
Cultivators	1 - 2 - 3	Draught control	Yes/No	■		■		
Weeders, Ridgers, etc.	1 - 2 - 3	Float Draught	Yes No		■		■	
Carried Seed Drills and Manure Spreaders	1 - 2 - 3	Position control	Yes/No		■		■	For wheeled implements move lever to float
Grader Blades, Augers, Scrapers, Manure Forks, Rear Mounted Transport Boxes, etc.	1 - 2 - 3	Position control	No		■		■	
Mover Bars (side and rear mounted), Hay Rakes and Tedders, etc.								
Front Loaders, Dump Trailers, Hydraulically Controlled Towed Implements	—	—	—	—	—	—	—	Auxiliary control valves needed
Tractor driven without implements	—	—	—		■		■	
To facilitate implement attachment	—	—	—	■		■		

(*) Mounting hole selection depends on height of implement. — (•) Check links optional.

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QUICK REFERENCE INDEX

	Page
Service	4
Tractor Identification Data	7
Safety Precautions	8
Controls and Instruments	15
Operation	20
Guide to Lift Operation	31
Servicing Schedule	50
Electrical System	56
Wiring Diagram	59
Specification	60
Four-wheel Drive Version	67
Twenty-four Speed Version	72
Reverser Version	74
Twin Tyre Version	77
Heated and Ventilated Cab Version	79
Air Conditioned Cab Version	87
Tractor Storage	94
Contents	95
Servicing Chart	Inside back cover

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Safety Precautions

THIS SYMBOL IS YOUR SAFETY ALERT SIGN

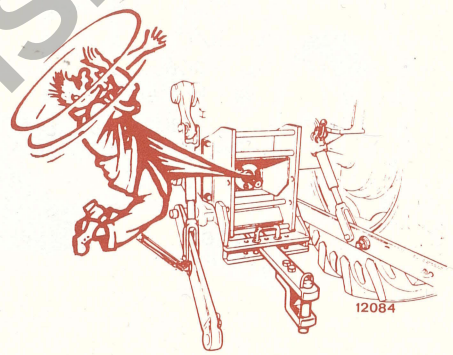
It means:

«ATTENTION! - DANGER! YOUR SAFETY IS INVOLVED».

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

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.
- 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 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.



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FIAT Trattori

The world's largest manufacturer of agricultural crawler and four-wheel drive tractors.
For many years Fiat Trattori has been first in sales throughout Europe and today commands a full 15% of the market.
With a 1983 production of over 82,000 finished tractors and C.K.D. units, Fiat Trattori confirmed its position as a world leader with sizeable market shares in most countries round the globe.

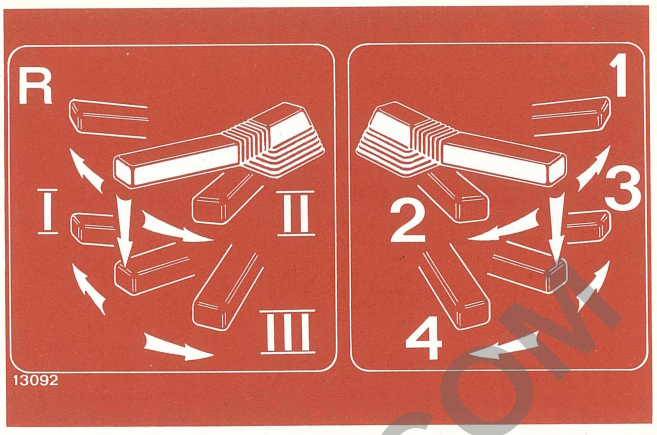


**Fiat Trattori has only one passion, only one mission and only one thought:
to design and produce tractors.
That's why Fiat Trattori will continue to lead the päck in specialist tractor production.**

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Transmission and Splitter



⚠ CAUTION ⚠

With engine running and only one gear selector in neutral, accidental striking of selector in neutral could cause tractor to move suddenly.
To avoid injury, move both levers to neutral and shut off engine before dismounting.

Transmission and splitter are controlled by two separate levers.

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

Splitter provides three forward ranges:

— ***I*** = Low;
— ***II*** = Normal;
— ***III*** = High;

and one reverse range (***R***) for each gear ratio.

Thus ***twelve*** forward and ***four*** reverse speeds are available.

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

With optional synchromesh, tractor need not to be stopped.

To select reverse ***R***, stop the tractor and move splitter lever forwards.

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.

I ***Low.***

II ***Normal.***

III ***High.***

R ***Reverse.***

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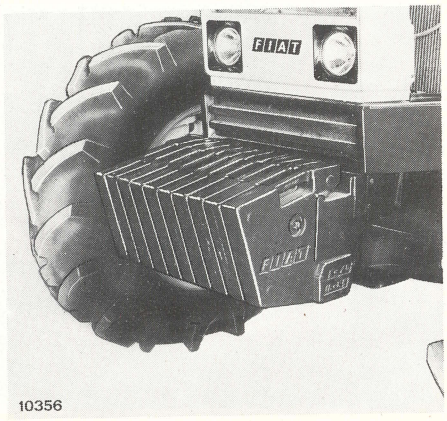
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FRONT AXLE OUTER WEIGHTS

10 cast iron steel discs with handles weighing ***40 kg (88 lb)*** each, and associated support weighing ***130 kg (287 lb)*** for a total of ***530 kg (1,168 lb)***.

NOTE

Ballast plates with front tow hook are optionally available. Weights are unchanged.



10356

WATER BALLASTING

To ballast the rear tyres, water may be pumped into the inner tubes if there is no risk of freezing.

To Fill:

— Raise the wheel clear of ground and position the inflation valve uppermost.

— Unscrew the valve plunger and allow the tyre to deflate.

— Apply the water connection to the valve seat and connect the hose to inlet ***4***. During filling, the residual air will be expelled through tube ***3***.

— Stop filling when the tyre is ¾ full, i.e. when water issues from tube ***3*** in its lowermost position.

If less than maximum ballasting is desired, turn the wheel to position the valve lowermost.

— Remove fitting ***2***, refit the valve plunger and inflate to the specified pressure rating.

The water capacity with ¾ full tyre is given below:

Tyre size	Water capacity	
	Litres	Imp. Gallons
18.4/15-38	367	80¾
23.1/18-34	580	127½
20.8/38	506	111¼

To Drain:

— Raise the wheel and position the inflation valve lowermost.

— Unscrew the valve plunger and allow the water to drain.

— Fit the air connection to the valve seat and bring tube ***3*** in contact with the tyre.

— Admit air pressure through inlet ***4***; the residual water will be expelled through tube ***3***.

— Remove fitting ***2***, refit the valve plunger and inflate the tyre.

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SPEEDS

Speeds given are at governed engine rpm.

GEAR		REAR TYRES					
		Models 130-90 and 140-90				Model 140-90	
		18.4/15-38		23.1/18-34		20.8/38	
		kph	mph	kph	mph	kph	mph
1st	Crawler low	0.2	0.12	0.2	0.12	0.2	0.12
2nd	»	0.3	0.18	0.3	0.18	0.3	0.18
3rd	»	0.35	0.21	0.36	0.22	0.4	0.24
4th	»	0.5	0.31	0.5	0.31	0.5	0.31
1st	Crawler normal	0.4	0.24	0.4	0.24	0.4	0.24
2nd	»	0.6	0.37	0.6	0.37	0.7	0.43
3rd	»	0.8	0.49	0.8	0.49	0.8	0.49
4th	»	1.2	0.74	1.2	0.74	1.2	0.74
1st	Crawler high	1.0	0.62	1.0	0.62	1.0	0.62
2nd	»	1.5	0.93	1.5	0.93	1.5	0.93
3rd	»	1.8	1.1	1.8	1.1	1.9	1.2
4th	»	2.7	1.7	2.7	1.7	2.8	1.7
1st	Low	2.0	1.24	2.1	1.3	2.1	1.3
2nd	»	3.1	1.9	3.2	2.0	3.3	2.1
3rd	»	3.8	2.3	3.9	2.4	4.0	2.5
4th	»	5.7	3.54	5.8	3.6	6.0	3.7
1st	Normal	4.6	2.8	4.6	2.85	4.8	2.98
2nd	»	7.0	4.4	7.1	4.41	7.4	4.6
3rd	»	8.6	5.3	8.7	5.4	9.0	5.59
4th	»	12.8	7.95	13.0	8.07	13.5	8.38
1st	High	10.4	6.46	10.5	6.52	10.9	6.77
2nd	»	15.8	9.81	16.0	9.94	16.6	10.31
3rd	»	19.3	11.99	19.6	12.17	20.3	12.61
4th	»	29.0	18.02	29.3	18.20	30.4	18.89
1st	Reverse crawler	0.3	0.18	0.4	0.24	0.4	0.24
2nd	»	0.5	0.31	0.5	0.31	0.6	0.37
3rd	»	0.7	0.43	0.7	0.43	0.7	0.43
4th	»	1.0	0.62	1.0	0.62	1.0	0.62
1st	Reverse normal	3.8	2.3	3.9	2.4	4.0	2.5
2nd	»	5.8	3.6	5.9	3.7	6.1	3.79
3rd	»	7.1	4.41	7.2	4.47	7.5	4.7
4th	»	10.7	6.64	10.8	6.71	11.2	6.95

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