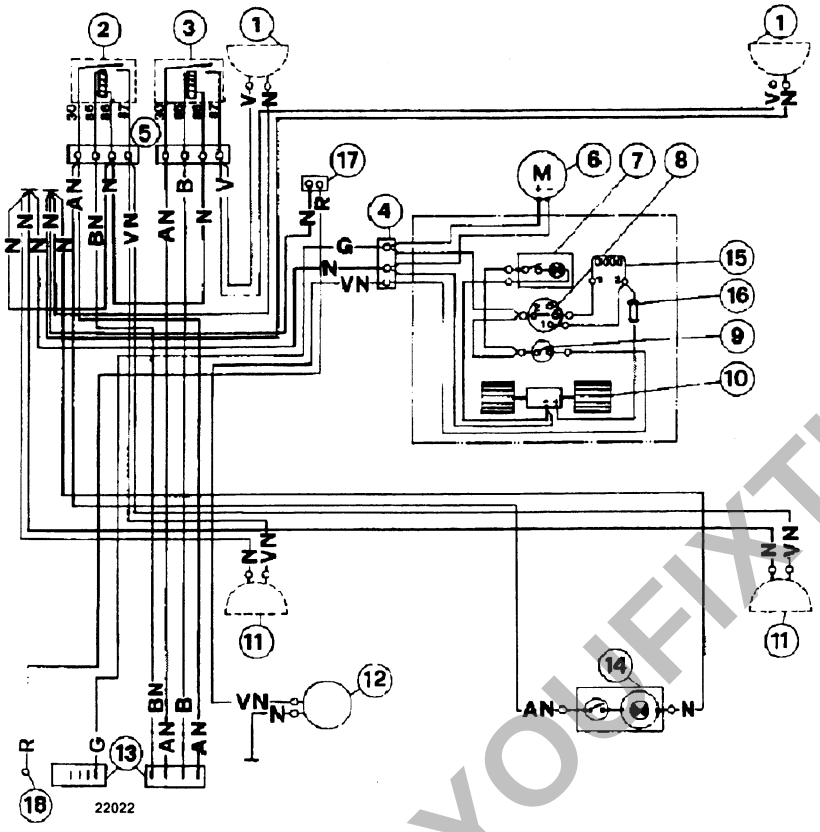


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WIRING DIAGRAM
Cab version

Diferences from basic diagram attached.

1. Front work lights.
2. Rear work light relay.
3. Front work light relay.
4. 3–way connector.
5. Five pole support for relay.
6. Windshield wiper motor (single speed).
7. Cab interior light.
8. Fan switch.
9. Windshield washer switch.
10. Fan unit.
11. Rear work lights.
12. Washer pump.
13. 4–way connector tractor system.
14. Spot light.
15. Resistor.
16. Fuse.
17. Rotating haward light switch.
18. Fuse case connector.

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MAINTENANCE

Servicing schedule

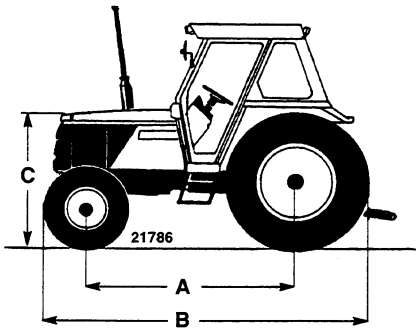
(Operation numbers correspond to respective operations described and illustrated on the attached "Servicing Chart").

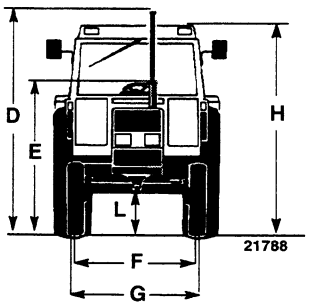
Service hour interval	Operation Number	Operation Item	Fluid level check	Adjustment	Greasing	Cleaning	Filter replacement	Lube oil change
FLEXIBLE MAINTENANCE	1	Master clutch adjustment		●				
	2	Engine/power tafe–off clutch		●				
	3	Fuel decanting filter				●		
	4	Radiator (60–94)	●					
	5	Engine oil sump	●					
	6/12	Air cleaner (discharge valve)				●		
	7	Rear wheel hubs			●			
	8	Supercomfort Cab	●			●		
	9	Supercomfort, air conditioned cab		●		●		
	10-11	Brake oil reservoir	●					
	13	Battery	●					
	14	Fan belt		●				
	15-20	Hydrostatic steering oil reservoir	●					
	16	Turbocharger (88–94)		●				
	17	Radiator auxiliary tank	●					
	18	Comfort cab (air cleaner)				●		
	19	Dry air cleaner (outer element)				●		

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Specifications





Standard tire combinations	60-94	65-94	72-94	82-94	88-94
Front	7.50-16	7.50-16	7.50-18	7.50-18	7.50-18
Rear	13.6/12-36	16.9/14-30	13.6/12-38	13.6/12-38	18.4/15-30

Operating weight with cab, kg (*)	60-94	65-94	72-94	82-94	88-94
Without ballast	2940	3170	3460	3470	3530
With ballast	3730	3960	4250	4560	4620

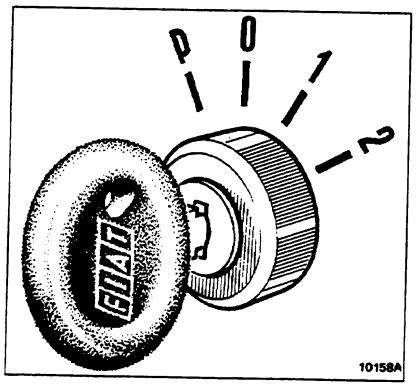
(*) For equivalents in pounds multiply by 2.205 (1 kg = 2.205 lb)

Dimensions mm (*)	60-94	65-94	72-94	82-94	88-94
A	2230	2340	2340	2340	2340
B	3295	3410	3550	3550	3550
C	1430	1430	1490	1490	1490
D	3250	3250	3310	3310	3310
E	1810	1810	1870	1870	1870
F (front)	1410÷1910	1410÷1910	1400÷1900	1400÷1900	1400÷1900
G (rear)	1400÷2000	1400÷2000	1400÷2100	1400÷2100	1400÷2100
H	2540	2540	2615	2615	2615
L	445	445	505	505	505

(*) For equivalents in inches, multiply by .039 (1 mm = .039 in)

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Starter switch

0. No circuit energysed (key removable). Engine stopping: automatic activation of fuel cut–off device.

1. Pre–set for engine starting. Signal, indicators and instruments activation. All circuits energysed.

2. Engine starting (key, when released, springs back to position ***1***).

P. Parking lights on, instrument panel illumination, work lights switch (key removable).

⚠ CAUTION ⚠

— *Do not start and never run the tractor inside closed premises.*

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

— *Operate controls only when seated in the Operator's seat.*

— *Switch off the engine before carrying on any servicing or maintenance.*

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

— *Ensure that all safety guards and shields are correctly mounted.*

— *When driving on roads, always signal your intention of stopping, turning or slowing down.*

— *Use the appropriate slow moving vehicle safety signs and devices when driving on public roads.*

STARTING THE ENGINE

a. If the tractor has remained inactive for long or if starting for the first time in cold temperature, activate about twenty times the fuel lift pump priming lever and make engine turn for about 5 to 10 seconds with injection pump in "stop" position.

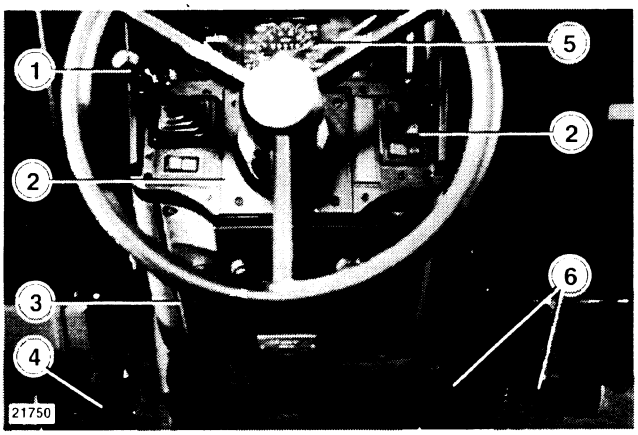
b. Depress clutch pedal to close the starting safety device switch.

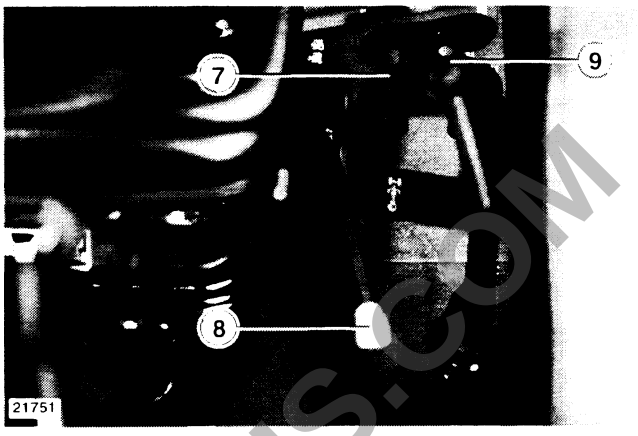
c. Set throttle lever 1/2 open position.

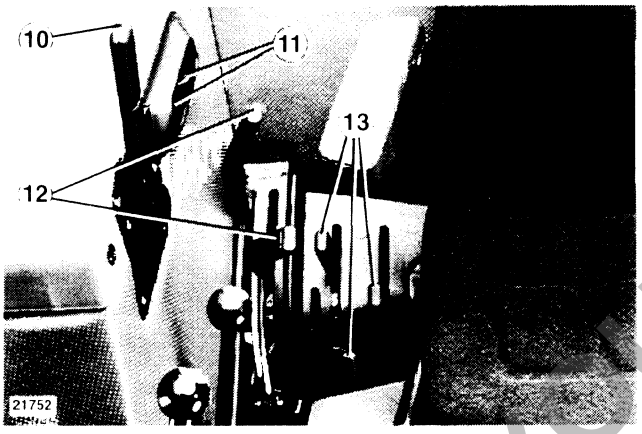
d. Turn switch key to ***2*** position until engine starts, then release key.

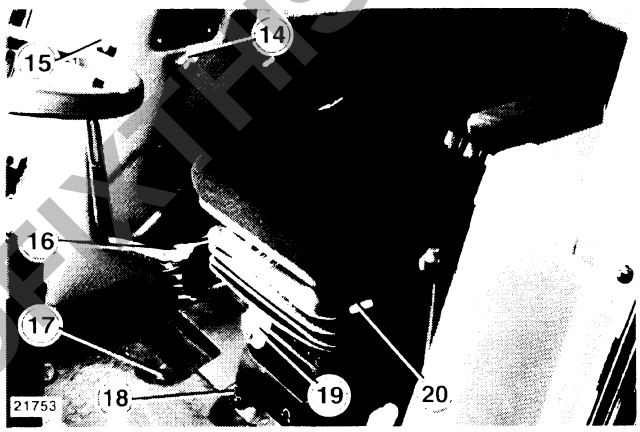
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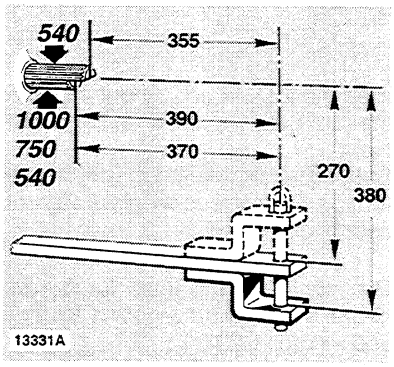


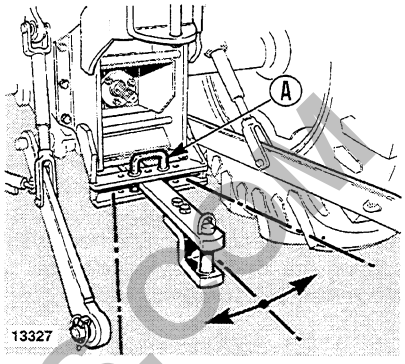


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Towing attachments





⚠ CAUTION ⚠

■ *We recommend to select the towing attachment according to the type of implement or trailer to be connected and in the respect of local laws and regulations.*

■ *On the correct setting of the towing attachment depend ease of driving and operating safety of the tractor.*

■ *A high towing point increases pulling capacity but will also favour tractor pitching. Also, avoid positioning the trailer bar too much inclined upwards.*

■ *When operating in four wheel drive, connect the trailer in low position, holding the bar practically horizontal.*

■ *Avoid towing too heavy trailers or loads.*

■ *Do not start moving abruptly, the risks for pitching would be strong.*

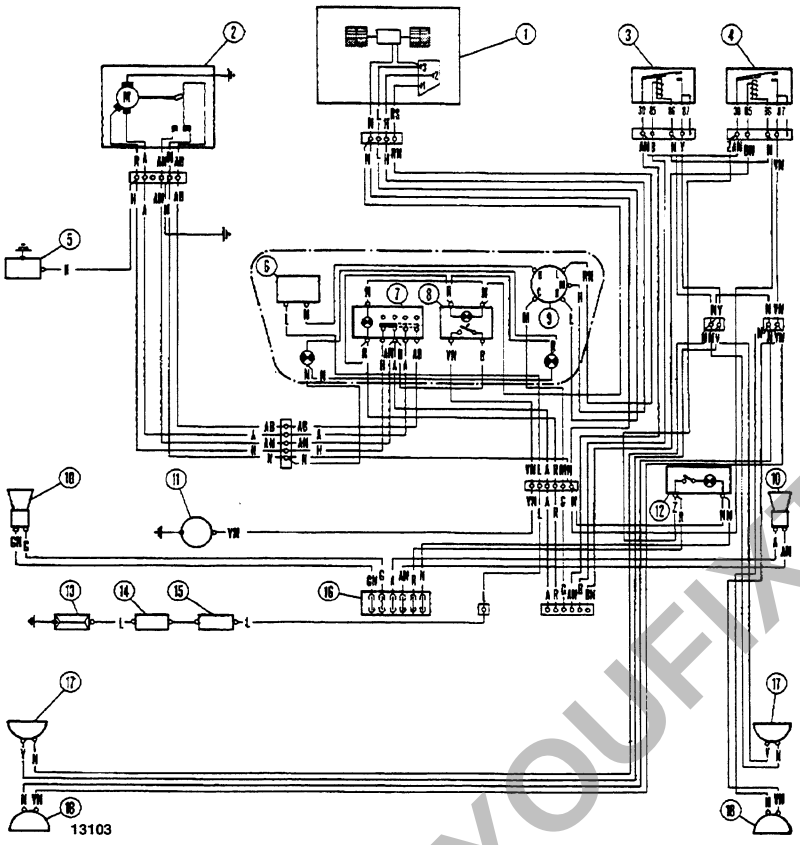
■ *Always brake down the trailer first and then the tractor.*

SWINGING DRAWBAR

Make use of the swinging drawbar to pull implements, agricultural machines and two–axle trailers.
Do not use it instead for single–axle trailers, because they transfer an excessive share of weight on the bar and you would risk tractor pitching.
The wide horizontal swing of the bar is particularly useful in case of implements or machines requiring freedom of side sway as, for example, hay balers.

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Wiring diagram (air conditioned cab).

Differences from basic diagram attached:

1. Air conditioner.
2. Windshield wiper motor.
3. Front work light relay.
4. Rear work light relay.
5. Radio interference suppressor capacitor.
6. Air conditioner thermostat.
7. Washer switch.
8. Washer button.
9. Fan switch.
10. Speakers.
11. Washer pump.
12. Lamp and switch.
13. Compressor electromagnetic coupling.
14. Maximum pressure switch.
15. Minimum pressure switch.
16. Terminal box.
17. Front work lights.
18. Rear work lights.

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Service hour interval	Operation Number	Operation Item	Fluid level check	Adjustment	Greasing	Cleaning	Filter replacement	Lube oil change
EVERY 50 WORK HOURS	21-26	Lift and implement hitch			●			
	22-27	4WD steering			●			
	23	Steering and axle pivot munting			●			
	24	Steering with hydrostatics			●			
	25	Front live axle pivot mounting			●			
	28	Fuel filter (3–cylinder)				●		
	29	First fuel filter (4–cylinder)				●		
EVERY 200 WORK HOURS	30-33	Engine oil sump						●
	31	First fuel filter (4–cylinder)					●	
	32	Fuel transfer pump				●		
	34	Fuel filter (3–cylinder)					●	
EVERY 400 WORK HOURS	35	Lift oil filter					●	
	36-40	4WD front axle housing	●					
	37	4WD front axle final drives	●					
	38	Hand brake		●				
	39	Hydrostatic steering filter					●	
	41-42	Hydrostatic steering				●		
	43	Engine oil filter					●	
	44	Dry air cleaner (inner element)					●	
	45	Rear drive and hydraulic lift	●					
	46	4WD front axle steering knuckles			●			
	47	Front wheels			●			

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Model	*60-94*	*65-94*	*72-94*	*82-94*	*88-94 Turbo*
FIAT engine type	IVECO	IVECO	IVECO	IVECO	IVECO
— CAV pump	8035.05.317	8045.06.326	8045.06.301	8045.05.304	8045.25.310
— BOSCH pump	8035.05.216	8045.06.225	8045.06.200	8045.05.205	—
Diesel cycle, 4–stroke, direct injection:					
— Naturally aspirated	YES	YES	YES	YES	—
— Turbocharged	—	—	—	—	YES
Number of cylinders	3	4	4	4	4
Bore and stroke, mm (in)	104 x 115 (4.09 x 4.52)	100 x 115 (3.93 x 4.52)	100 x 115 (3.93 x 4.52)	104 x 115 (4.09 x 4.52)	104 x 115 (4.09 x 4.52)
Displacement, c.c.	2931	3613	3613	3908	3908
Compression ratio	17	17	17	17	16,5
Flywheel horsepower at rated speed (DGM/DIN)					
— kW	44,1	47,8	51,5	58,8	63
— metric HP	60	65	70	80	85
Rated speed ..... rpm	2500	2500	2500	2500	2500
Max torque speed, ... rpm	1500	1500	1500	1400	1500
Dynamic balancer	NO	YES	YES	YES	YES

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STARTING THE TRACTOR

— Depress the master clutch pedal and position the transmission gear shift and range box control levers for the selected gear (see pages 26 and 28).

— Accelerate the engine to suit.

— Lower the parking brake lever, then engage the clutch by slowly releasing the pedal.

ATTENTION

To extend the life of tires and of power train components do not use the tractor continuously at full engine throttle and working speeds lower than 7 km/h, particularly if the tractor carries extra–heavy ballast weights. Moreover, tractors should not be ballasted beyond measure to make them pull extra heavy weights at low speeds. To this end, follow the directions provided in the chapters dealing with ballasting and towing attachments.

STOPPING THE TRACTOR

— Reduce engine speed.

— Depress the master clutch pedal and apply brakes.

After the tractor has stopped, move both transmission gear shift and range box levers to neutral positions, release clutch pedal and finally pull the hand brake lever until locked.

STOPPING THE ENGINE

⚠ *CAUTION* ⚠

On model 88–94 Turbo, befor stopping the engine, make it idle at 1000 rpm for about 3 minutes.

— Turn starter switch key to ***0*** position.

— When the engine has stopped, turn the starter witch key to ***0*** position or to ***P*** position if parking lamps are to remain lighted.

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OPERATING CONTROLS AND INSTRUMENTS

1. ***Light switch*** (see page 18).
2. ***Control board*** (see page 17).
3. ***Control panel*** (see page 16).
4. ***Transmission clutch pedal.***
5. ***Control board instruments*** (see page 20).
6. ***Brake pedals.***
7. ***Power take–off control*** (see page 38).
8. ***Power take–off clutch lever*** (see page 38).
9. ***Reverser lever.***
10. ***Throttle hand lever.***
11. ***Lift–O–Matic control push button*** (see page 45).
12. ***Hydraulic lift levers*** (see page 46).
13. ***Remote control valve levers*** (see page 61).
14. ***Transmission range box lever.***
15. ***Transmission gear shift lever.***
16. ***Parking brake lever*** (with release push button):
    – up = brake locked
    – down = brake released

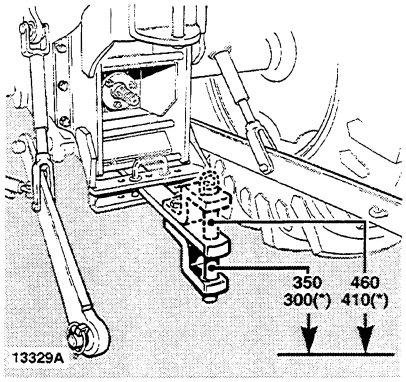
ATTENTION

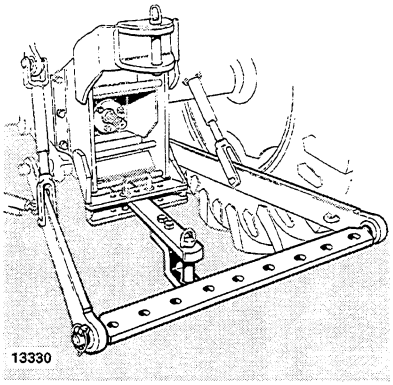
*To release parking brake free control lever **16** by depressing push button.*

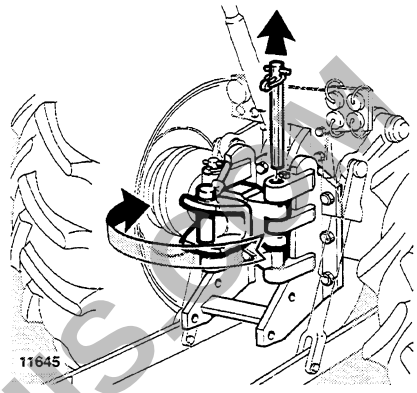
17. ***Differential lock pedal.***
18. ***Lift arm lowering speed regulation knob*** (see page 46).
19. ***Seat spring ride regulation knob*** (see page 81).
20. ***Seat reach distance regulation knob*** (see page 81).

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This device can be supplied:
— with mounting brackets for both the rigid and Rockinger towing hooks;
— with the drawbar mounting bracket only.

Drawbar adjustments:
— height, by arranging the fork up or down;
— side sway check by fitting the clevis **A** (page 56).

Following these adjustments, the swinging drawbar fork will be positioned at the clearance distances shown in the figure (page 56).

For a correct implement connection to the power take–off, make sure to fit the fork turned downwards.

(*) Values applying to model 60–94 and 65–94 tractors.

DRILLED CROSSMEMBER

Use it to tow trailed implements and agricultural machines, also if driven by the power take–off, that do not transfer excessive weight on the crossmember, to avoid tractor pitching.

ROCKINGER HOOK

This hook differs from normal rigid ones because it can turn over its longitudinal axis and is equipped with an automatic system for coupling the draw pin and securing it in place during the connecting stage. To facilitate power take–off use, the Rockinger hook can be tilted sideways and locked in that position by means of the retaining device incorporated in the hook.
It is adjustable for height in three positions and can be installed together with the swinging drawbar.

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