Optional variants and accessories

This manual covers most of the components your tractor may be equipped with, which we list below together with the optional variants and accessories available for these machines:

- Start-pilot.
- P.T.O. 540/750/1000 rpm.
- Creeper.
- Synchronized range box.
- Fuel sedimenter filter.
- Air pre-cleaner with self-cleaning device.
- Electronic hydraulic lift.
- Front P.T.O.
- Twin wheels.
- Electro-hydraulic engagement of four wheel drive for 30 kph - 19 mph version models.
- Implement linkage lower link sway limiter units with spring.
- Trailer brake hand lever housing.
- Lift links with telescopic ends.
- One auxiliary lift cylinder.
- De Luxe seat with:
  - swivel cradle;
  - pneumatic suspension.
- Hydraulically operated regulation of implement linkage right-hand link rod and/or top link.
- External control valves.
- Control valves for hydraulic trailer brakes.
- Tow assemblies.
- Ballasts.
- Front mudguards (four wheel drive version only).
- Side splash guards.
- Two stop wedges.
- Heated and ventilated or air-conditioned cab with the following optional variants:
  - tempered glass for fixed windscreen;
  - opening windscreen;
  - telescopic external rear-view mirrors;
  - radio fitting;
  - additional front and rear headlamps;
  - digital clock;
  - rear windscreen wiper.

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Bodywork servicing

Weathering Protection

FIATAGRI has long since introduced a number of provisions aimed at improving tractor protection against deterioration and corrosion caused by external factors including:

- Atmospheric salinity and humidity;
- Air pollution (industrial areas);
- Abrasion by solid particles;
- Use of machine in conditions with organic and/or chemical aggressive agents;
- Physical damage such as dents, scratches and deep scoring marks.

The technical remedies were:

- Use of steel panels with high corrosion resistance;
- Painting systems and products selected to give the tractor special resistance to corrosion and abrasion;
- Application of suitable plastic setting coatings in the points most exposed to corrosion factors (sheet metal edges, welded overlaps and joints).

Unfortunately, weathering agents react differently in different environmental conditions; adequate tractor care by the user is therefore of vital importance in maintening the tractor. The guidelines below were drawn up with this basic concept in mind.

Bodywork and Cab

Any abrasion or deep scratches which reveal the metal underneath must be dealt with immediately by touching up the paintwork using genuine products as follows:

- Sand the area involved carefully;
- Apply primer;
- Allow to dry and sand again lightly;
- Apply paint;
- Polish to restore original gloss.

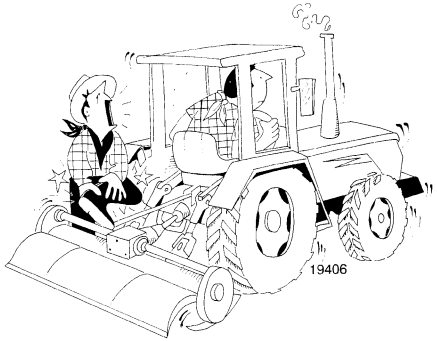
Hose down equipment regularly as appropriate to working and environmental conditions; wash more frequently in seaside and heavily polluted areas and ***immediately*** after exposure to organic materials or chemicals.

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

Do not wash the tractor after prolonged exposure to sunlight or when the engine hood is still warm as this will impair the gloss.

Protect the paintwork by applying a light coat of silicone wax occasionally, and use a slightly abrasive polish to remove traffic film.

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■ Never operate a PTO driven implement without first ensuring that no one is on the machine or near its working range.
Check that all rotating parts connected to the PTO shaft are well shielded.

■ Install rear ballasts when using front lifting equipment.

STOPPING THE TRACTOR

■ Never leave implements in the raised position with the tractor stationary: lower them down before shutting the engine off.

■ Return the gear lever to neutral, disengage the PTO, apply the parking brake, stop the engine and engage a gear before leaving the tractor seat. Always remove the ignition key before leaving the tractor unattended.

■ Park the tractor on level ground if possible, engage a gear and apply the parking brake.
On gradients, apply the parking brake and first gear uphill and reverse gear downhill. For greater safety, use the optional chock (available on request); this is especially important with a trailer on tow. Apply trailer hand brake.



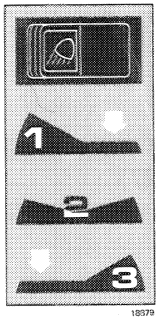


TRACTOR SERVICING

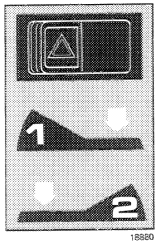
■ Allow the engine to cool down before removing radiator cap; with the engine shut off, turn the cap to release pressure before removing the cap completely.

■ Disconnect the battery earth lead before starting any work on the electrical system.

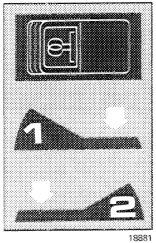
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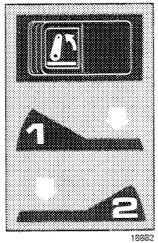
Auxiliary headlamp switch.
1 = Lamps off.
2 = Rear lamps.
3 = Front and rear lamps.



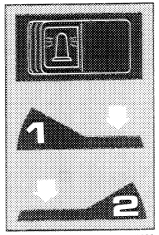
Emergency light switch.
1 = Lights off.
2 = Emergency lights on.



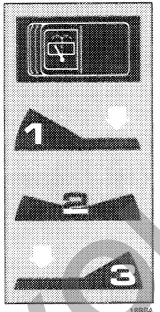
Start-pilot or heater-starter button.
1 = Heater-starter off.
2 = Heater-starter on; if released the button automatically returns to position ***1***.



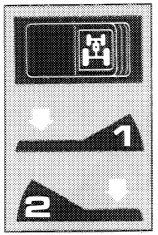
Front hydraulic lift switch
1 = Lift off.
2 = Lift enabled.



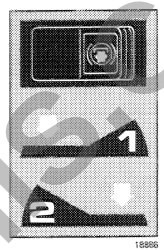
Rotary flashing light switch.
1 = Off.
2 = On.



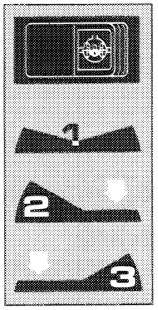
Rear window wiper switch
1 = Off.
2 = On.
3 = Rear window washer on (button operated); if released returns immediately to position ***2***.



4WD switch.
1 = Front wheel drive not engaged.
2 = Front wheel drive engaged.



PTO brake enabler switch (see page 40).
1 = Circuit disabled.
2 = Brake control enabled.



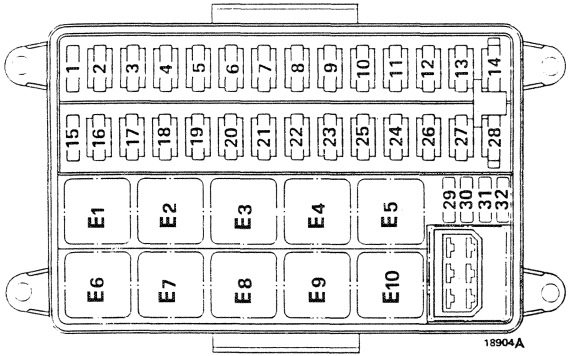
Differential lock control button (see page 48).
1 = Differential lock not engaged.
2 = Differential lock engaged.
3 = Differential lock engaged.Disengaged automatically by lift-O-Matic.

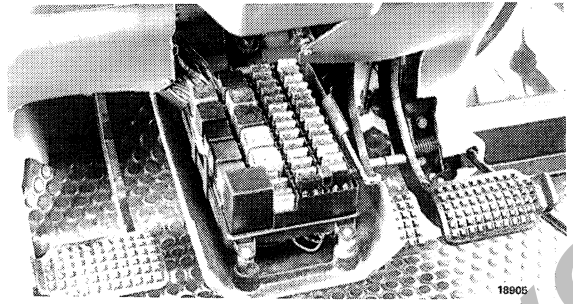
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FUSES

Before replacing a blown fuse with another of the same rating trace and rectify the fault.

N.B. *- Fuses 29-30-31-32 are spares of 5-10-15 and 25 Ah respectively.*





Fuse	*CIRCUITS PROTECTED*	*A.*
1	Fan assembly	25
2	Direction indicators, control panel instruments	10
3	Seat	5
4	4WD and rear PTO circuit	5
5	Stop lights, differential lock	10
6	Front PTO and front hydraulic lift circuit	10
7	HI-LO circuit	5
8	Electronic hydraulic lift power supply	5
9	Windscreen wipers, screen-wash pump	10
10	Rear windscreen wiper, rear screen washer pump	10
11	Hydraulic implement regulation circuit, sedimenter filter	5
12	Trailer brake circuit, pressure switch,hidraulic circuit	10
13	Not used	5
14	Trailer brake circuit	—
15	Cigarette-lighter horn	10
16	Cab light, cab clock, radio	10
17	Rotating beacon	10
18	Low beam headlamps	10
19	High beam headlamps	10
20	Front left-hand and rear right-hand sidelights	5
21	Front right-hand and rear left-hand sidelights, "sidelights on" warning light	5
22	Control and instrument lighting	5
23	Thermo-starter	15
24	Cab rear work lamps	10
25	Engine shut-off solenoid	5
26	Instruments	5
27	Cab front work lamps	10
28	Parking light circuit diode	—

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WATER BALLASTING

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

To fill tyres with water:

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

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

— Lower the wheel to obtain a 30% tyre deflection and prevent damage due to the weight of water;

— Apply Fiat fitting No. ***291885*** to the valve seat and connect the hose to inlet ***A***. When the tyre inflates, remove the connection to expel air;

— Stop filling when the tyre is 75% full, i.e. when water flows from tube ***A***.

When less than maximum ballasting is desired, turn the wheel to position the valve lower down;

— Remove fitting ***A***, install the valve plunger and inflate to the specified pressure rating.

⚠ *IMPORTANT* ⚠

The water pressure must not exceed 4 bar (kg/cm^2).

The amount of water with tyre 75% full is given in the following table:

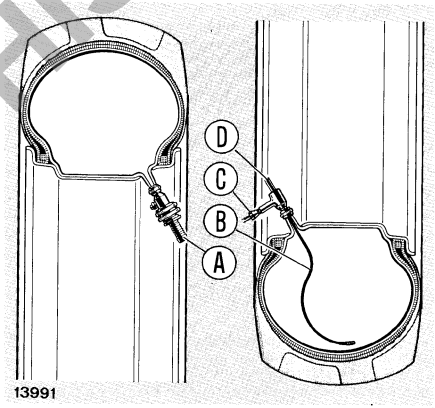
Tyre size	Water capacity	
	liters	Imp. Gallons
18.4/15-38	380	83.5
520/70R-38	380	83.5
23.1/18-34	600	132
18.4/15-34	380	83.5
16.9/14-38	340	75
480/70R-38	340	75

To drain water from tyres:

— Raise the wheel and position the inflation valve at the bottom;
— Unscrew the valve plunger and allow the water to drain out;
— Apply FIAT fitting No. ***291886*** to the valve seat and bring tube ***B*** into contact with the tyre inner tube.
— Admit air pressure through inlet ***C***; any residual water will be expelled through tube ***D***;
— Remove the fitting, install the valve plunger and inflate the tyre to the specified pressure.

Water fill and drain fittings.

A. Water filler.
B. and D. Vent tube.
C. Air inlet.



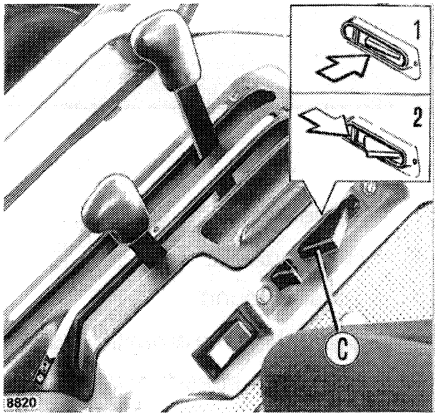
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⚠ IMPORTANT ⚠

When using Lift-O-Matic with P.T.O. mounted implements, adjust vertical lifting rods to max. length to prevent drive shaft damage during Lift-O-Matic operations.

C. Lift-O-Matic (total lift-link raising/lowering button).

Position ***1*** = Link lowering;
Position ***2*** = Link lifting.
To change from position ***1*** to position ***2***, press release button shown.



DRAFT CONTROL

— Move position control lever ***A*** (page 50) fully forward.

— Move lever ***B*** (page 50) gradually forward to bring the implement to the desired depth. The implement depth will be proportional to draft as determined by ground consistency. In this condition the lift keeps the tractive effort steady automatically as it senses the load on the lower link through the flexion bar.

FLOAT OPERATION

— Move levers ***A*** and ***B*** fully forward to enable the links to swing free through a full stroke.

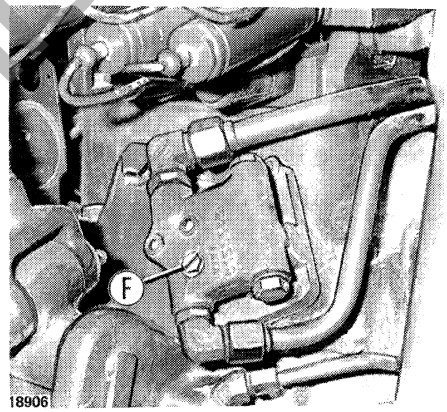
— Raise and lower the implement at the beginning and end of each pass by operating Lift-O-Matic button ***C*** only.

NOTE - *Do not move draft control lever **B** as this could change the preset operating depths.*

F. Link lowering speed adjusting screw.

— tighten = to increase speed.

— loosen = to decrease speed.



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TRACTOR with air-conditioned cab

This section contains instructions for use of cabs equipped with air-conditioning system.
In addition to ensuring an optimum temperature inside the cab, this system reduces the air humidity level; excess humidity can be very unpleasant for the driver and reduce operating safety.
The cab is also equipped with tinted glass which reduces the amount of sunlight reaching the interior; in hot weather this sunlight helps make conditions inside the cab uncomfortable.

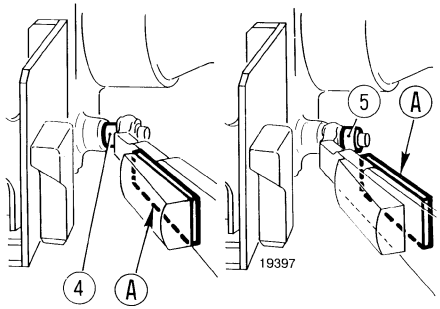


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REGULATING THE IMPLEMENT LINKAGE WITH SWAY LIMITER BLOCKS

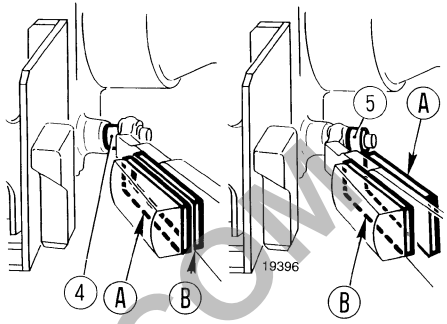
Version with lower links 6 with telescopic ends

With spacer ***1*** (page 58) in position ***4***, fit plates ***A*** on the inside of the lower links, under the wear plates. With spacers ***1*** (page 58) in position ***5***, fit the plates ***A*** on the outside of the lower links.



Version with lower links 6 with snap couplings

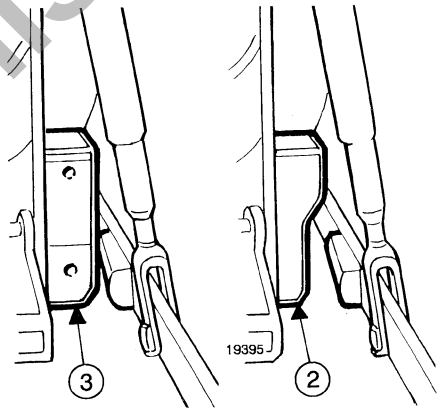
With spacer ***1*** in position ***4***, fit plates ***A*** and ***B*** on the inside of the lower links, under the wear plates. With spacers ***1*** in position ***5***, fit the plates ***B*** (***thickness 8 mm***) on the inside of the lower links under the wear plates, and plates ***A*** (***thickness 10 mm***) on the outside of the links.



WARNING

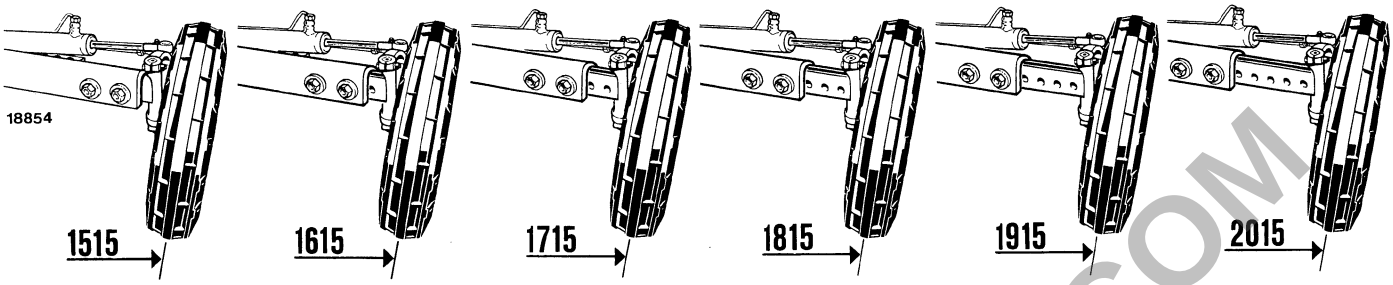
*With lower links having snap couplings, with spacer **1** in position **5**, the plates fitted inside the links must always be **thickness 8 mm**.*

Position 2 - maximum side swing.
Position 3 - minimum side swing.



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FRONT TRACKS



REAR TRACKS

The rear wheel disc may be fitted with disc facing either inside or outside. For each position track width varies as shown on page 70.

⚠ *DANGER* ⚠

When removing wheels, use all possible precautions and suitable lifting means; in particular, make use of the specific special tool when removing the heavier ones.

Depending on tyre size, rear track widths shown may be obtained starting from the following minimum widths:

18.4/15-34	mm 1550
16.9/14-38	mm 1550
18.4/15-38	mm 1550
480/70R-38	mm 1550
520/70R-38	mm 1550
23.1/18-34	mm 1750

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

Disc to hub torque is 225 Nm - 26 kgm.
Disc to rim torque is 294 Nm - 30 kgm.

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

CAUTION

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

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Ballasting

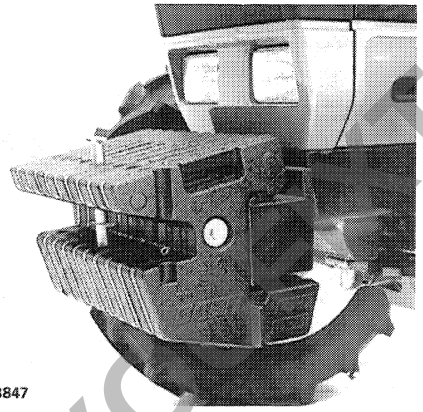
Where extra drawbar pull is required and it is found necessary to increase adhesion of the driving wheels, add cast iron ring weights, fit iron wheel discs or water-ballast the driving wheels as directed on page 74.

This will prevent wheel slip caused by insufficient adhesion and consequent loss of power and speed, increased fuel consumption and premature tyre wear.

When using long and heavy implements which may adversely affect tractor stability, fit cast iron plates on the front axle.

FRONT AXLE WEIGHTS

6 or ***10*** cast iron plates with handles weighing ***40 kg*** (88 lb) each and support weighing ***80 kg*** for a total weight of ***320 kg (705 lb)*** or ***480 kg (1058 lb)***.



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REAR WHEEL WEIGHTS (F100, F110)

With 4 or ***6 cast iron rings*** weighing ***50 kg (110 lb)*** each, for a total weight of ***200 kg (441 lb)*** or ***300 kg (661 lb)***.



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WORK SAFELY - ALWAYS



This warning sign alerts you about important messages involving your safety.

Read these safety rules attentively and strictly follow suggested precautions designed to avoid any potential danger and safeguard your health and personal safety.

You will find, throughout this Manual, the above warning sign associated with the following keywords:

ATTENTION - A warning intended to prevent unsuitable repair procedures with potential consequences to the repairman's safety.

DANGER - Associated with warnings for specific potential danger to the repairman and to any other people directly or indirectly involved.

⚠ *IMPORTANT NOTICES* ⚠

This tractor has been designed and manufactured specifically and solely for agricultural use.
Any other application will be considered non compatible with the use envisaged by the Manufacturer, who, consequently, cannot be held responsable for any damage to things or to the machine itself of for any physical injury to people deriving from uses other than agricultural ones. Always consider that with the improper use of this tractor you would also assume the personal responsibility for any consequence associated with it.
The respect of the rules for tractor use, maintenance and repairs given in this Manual is an essential element qualifying the correct use of the machine as envisaged by the Manufacturer. This machine must be used, serviced or repaired only by people previously instructed on its handling features and safety rules besides being specifically authorized to operate it.
The user is always reponsible for the strict observance of general safety and accident prevention rules as well as of the traffic regulations if driving the tractor on public or open roads. Any un-authorized and arbitrary modification made on this machine will relieve the Manufacturer of all responsibilities for any deriving damage or injury.
The Manufacturer and all the Organizations associated with its distribution network, including but not limited to national, regional or local distributors, decline any and all responsibilities for damages that may derive from the abnormal performance and behaviour of machine parts or components not specifically authorized by the Manufacturer, including the ones used for the maintenance and/or repair of products fabricated or distributed by the Manufacturer.
In any case, no warranty of any sort is issued or prescribed, regarding products fabricated or distributed by the Manufacturer, against damages deriving from abnormal behaviour of parts and/or components not authorized by the same Manufacturer.

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