

serie Farmer Multiuse

Mod: 13000 VS

GB

Operator use and maintenance
“Contains CE conformity declaration”



Read this manual carefully before using the machine

Indice

INTRODUCTION.....	4
WARRANTY	5
MACHINE INFORMATION.....	6
OPTIONAL ACCESSORIES	8
SAFETY PLATES and SYMBOLS	9
SAFETY INFORMATION	10
CONTROL and SAFETY DEVICES.....	12
RECOMMENDATIONS IN CASE OF PROBLEMS.....	13
BEFORE THE WORKING CYCLE	14
INSTALLATION.....	14
WORKING CYCLE.....	16
OPERATIONS AND MANOEUVRES FOR END-OF-WORK AND TRANSPORT	17
MAINTENANCE	19

This manual provides you with all the necessary information for the use and maintenance of your machine. It will work well and last for a long time if it is maintained well and used carefully.

Before leaving the production plant, this specific model was subjected to rigorous testing so as to guarantee maximum reliability. However, it is necessary to check that the machine has not suffered any structural damage during transport that could jeopardize its functioning and safety.

This manual is to be considered an integral part of the machine and must accompany it until it is broken up.

If it is lost or damaged, ask **Ricca Andrea & Co.** for a replacement copy.

The technical information contained in this manual is the property of **Ricca Andrea & Co.** and must be considered confidential.

Reproduction of the graphics, text and diagrams, even in part, is forbidden by law.

Certain details shown in the diagrams in this manual could be different from those on your machine. Certain components might have been removed in order to make the diagrams clearer.

To make this manual easy to consult, it is divided into different sections, each one with a different symbol.

The topics discussed in this manual are those expressly required by the “EC Machine Directive 2006/42/CE” and subsequent modifications and the technical data given is that supplied by the manufacturer at the moment of writing.

This manual must be kept in a place which is accessible to all the staff in charge of operating and maintaining the machine.

In case of any dispute, the Cuneo Law Court in Italy will have jurisdiction.



In case of any problems, our technicians are at your complete disposal.

Tel. 0171.946709 - Fax 0171.946719



**If the machine is sold to another party,
this manual must be given with it !**

CONDITIONS AND LIMITATIONS

All our machines have been subjected to careful testing and are covered by a 24-month warranty for private and DIY use and a 12-month warranty for industrial use or for hiring from the date of production against manufacturing defects.

The warranty starts from the purchase date indicated on the warranty card enclosed with the manual. When the card has been duly and completely filled in, it must be sent to the manufacturer within 10 days of the first use of the machine.

The warranty is not valid if the machine is repaired by unauthorized third parties or if equipment or accessories are used which have not been supplied by “**Ricca Andrea & Co.**”, or which have not been recommended or approved by the above, or if the serial number has been removed or altered during the warranty period.

“**Ricca Andrea & Co.**” undertakes to repay or replace free of charge any parts which, within the warranty period, prove to have manufacturing defects.

Repairs are carried out exclusively in our factory or in a Technical Service Centre that we indicate and must arrive free port (with transport costs paid by the user unless agreed otherwise).

The warranty does not provide for any cleaning of working parts.

Defects which are not clearly attributable to the material or manufacture will be examined in our factory or in a Technical Service Centre that we indicate.

If the claim should prove to be unjustified, all repair and/or replacement costs of parts will be charged to the purchaser.

The fiscal purchase document must be shown to the technical personnel carrying out the repairs or must accompany the machine if sent for repair.

The following are excluded from the warranty: accidental damage caused by transport, by negligence or inadequate treatment, by improper use not corresponding to the directions given in the instruction book and any phenomenon non dependent on the normal operation or use of the machine.

“**Ricca Andrea & Co.**” declines all responsibility for any damage to persons or things caused by wrong or improper use of the machine.

For any dispute, the Cuneo Law Court in Italy will have jurisdiction.

 **Failure to send the card nullifies the warranty !!**



1.1 Machine description

This series of models, which could be described as semi-professional, is ideal for those who use wood for heating (fireplaces, stoves, wood-fired boilers).

The **Farmer Multiuse** models are described in this manual.

There are various log-splitter models with different power ratings and power feed systems, which can be with independent petrol engines with different power levels.

Every model is supplied strictly following the regulations in force in the various international markets.

1.2 Manufacturer's identification data

Ricca Andrea & C. Snc
Via Vecchia di Cuneo, 45/bis
12022 BUSCA (CN) - ITALY
Tel. 0171.946709 - Fax 0171.946719

1.3 Machine identification plates

For any contact with the manufacturer it is always necessary to quote the data given on the machine identification plate.

COSTRUTTORE RICCA ANDREA & C. Snc 12022 Busca (CN) Italy		
Modello : Serie : Matricola :		
Pressione bar :	P.s.l. :	
P.t.za n.le assorbita :		
Corrente n.le :	50 Hz	
Tensione n.le :	<input type="checkbox"/> 230 <input type="checkbox"/> 400	
Grado di protezione : IP	<input type="checkbox"/> 54 <input type="checkbox"/> 44	
P.t.o. max G/M :	<input type="checkbox"/> 540 <input type="checkbox"/> 1000	
Massa : Kg.		
2001		Codice 100.029

COSTRUTTORE: RICCA ANDREA & C. s.n.c. 12022 BUSCA (CN) ITALY	
TIPO:	
OMOLOGAZIONE:	
NUMERO DI TELAIO:	
MASSA COMPLESSIVA:	Kg
MASSA MAX SULL'OCCHIONE:	Kg
MASSA MAX SUL PRIMO ASSE:	Kg
MASSA MAX SUL SECONDO ASSE:	Kg
ANNO DI COSTRUZIONE:	



1.4 Designed use

These specific wood-splitter machine models have been designed, built and protected only for cutting fire-wood logs of various sizes depending on the model. (See technical data table).

Furthermore the log splitter has been built only for breaking logs longitudinally with respect to the wood fibres.

Use of the machine other than that specified by the purchaser's order and/or by the manufacturer's technical specifications is considered to be IMPROPER.

1.5 Permitted environmental conditions

So as to warranty correct operation, the machine must be sheltered from atmospheric elements (rain, hail, snow, fog, suspended particles of dust, etc.) with a working environmental temperature between -15° and 45° and relative humidity no greater than 70%.

The working environment must be clean, sufficiently bright and in the absence of an explosive atmosphere.

1.6 Noise level

Noise meter trials carried out on these models show a continuous acoustic pressure of less than: $L_{pa} < 80 \text{ dB}$.

WARNING

For the VS models (with piston motor), however, it is advisable to use protective earplugs or headphones.

1.7 Qualitative characteristics

Double-acting hydraulic cylinder with return safety block.

Return hydraulic cylinder.

Electric system with safety magnetothermal switch.

Long-lasting epoxy paint.

Interchangeable slide guides.

Anti-capsizing front and rear supports.

Very high quality materials and components.

Strict component and final quality testing.

1.8 Storage

Remove all foreign parts from the machine and clean the surfaces.

Using a brush, coat all the mechanical parts, including the fastening devices, with a protective lubricant to be removed in case of reinstallation with alkaline degreaser.

Lubricate the mechanical parts and coat the surfaces with a protective lubricant.

Follow the machine handling instructions and store the whole machine in a sheltered place between 0°C and 40°C. Protect the parts from the build-up of dust.

1.9 Scrapping

If the machine is to be scrapped, it must be disposed of in appropriate dumps, respecting the regulations in force.

Collect any used oil and dispose of it in the special oil collection centre. Do not dispose of the oil in the environment as, according to the laws in force, it is classified as dangerous refuse.

Before scrapping the machine, it is necessary to separate the plastic or rubber parts and the electric material.

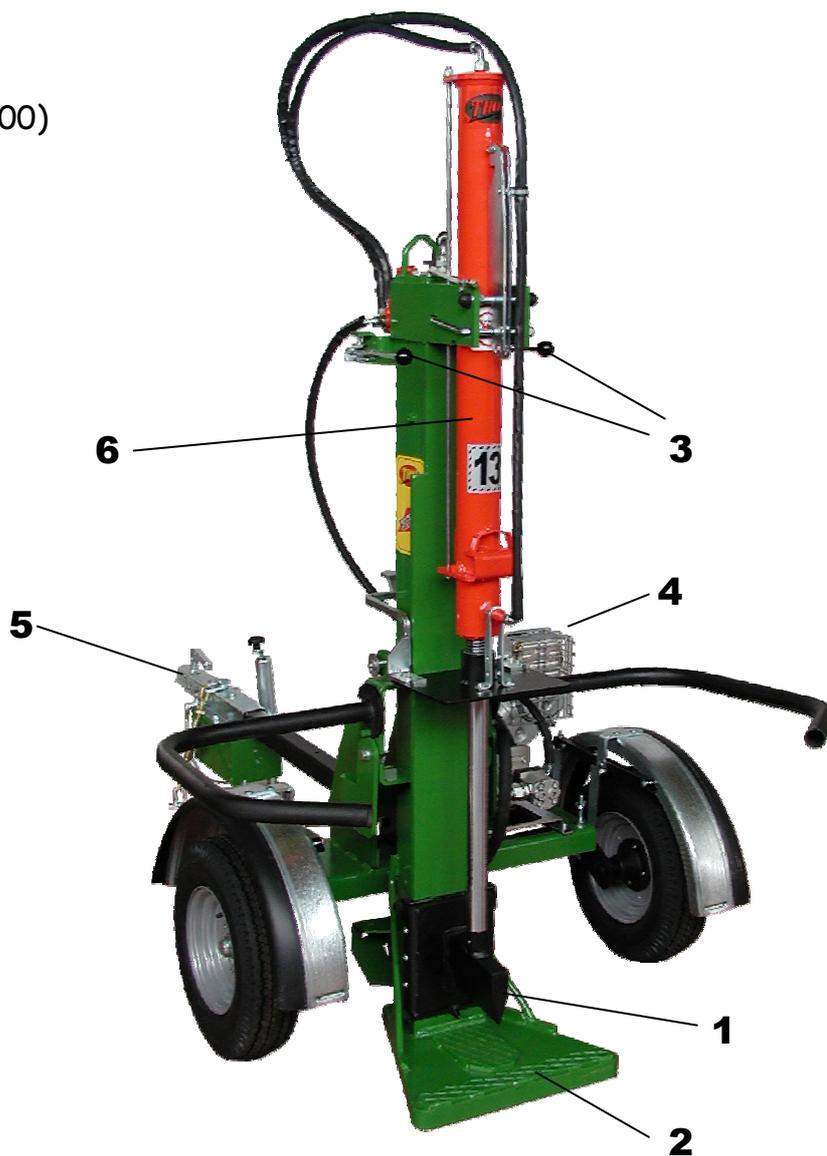
Those parts made solely of plastic, aluminium and steel can be recycled if taken to special collection centres.

1.10 Overall dimensions / Technical data

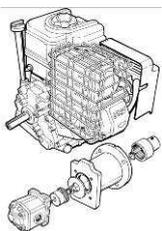
Refer to the technical table enclosed for the overall dimensions and technical data.

1.11 Identification of the main components

- 1) CUTTER
- 2) LOG SUPPORT BASE (cm 100)
- 3) LEVER CONTROLS
- 4) POWER UNIT
- 5) TRANSPORT CONNECTOR
- 6) HYDRAULIC CYLINDER



Power unit:



VS

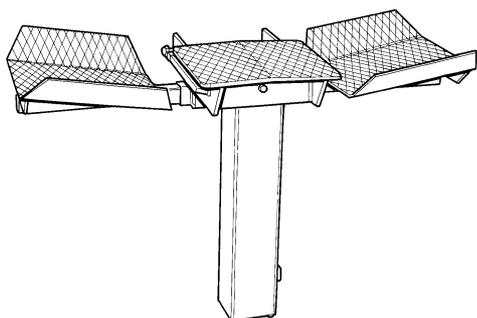


PD

NB: this diagram represents the VS 9 Hp PD model.



OPTIONAL ACCESSORIES



Log support base (50 cm) with side extensions
(only for vertical cut)
Code 845.162.K



SAFETY PLATES and SYMBOLS

Self-sticking labels with safety symbols and/or messages are applied to the machine. The nature of the danger and the position of the labels on the machine are indicated in this chapter.

⚠ ATTENTION

Ensure that all safety messages are legible. Clean them using a cloth, soap and water. Do not use solvents, naphtha or petrol. Ask Ricca Andrea & C. Snc. for replacement labels if necessary and replace any damaged labels. If there is a label on a part which is to be replaced, ensure that a new label is affixed onto the new part.

Plate (A)



Read the manual carefully before using the machine or before carrying out a maintenance operation.



Do not open or remove the guard while the machine is running.



Crushing hazard for hands when parts are in motion.



Beware of hot surfaces (oil tank, engine, oil pump).



Disconnect the power supply before carrying out any maintenance operation.



Shearing hazard. Do not approach the wedge when in motion.



Do not approach the PTO shaft if it is in motion.



Do not stand between the tractor and the machine.



Beware of rotation sense of p.d.p.



Be careful of fluids under pressure.



Electrocution hazard. Operate in dry places.



Use safety gloves.



Use safety shoes.



Use ear muffs.



Use safety glasses.



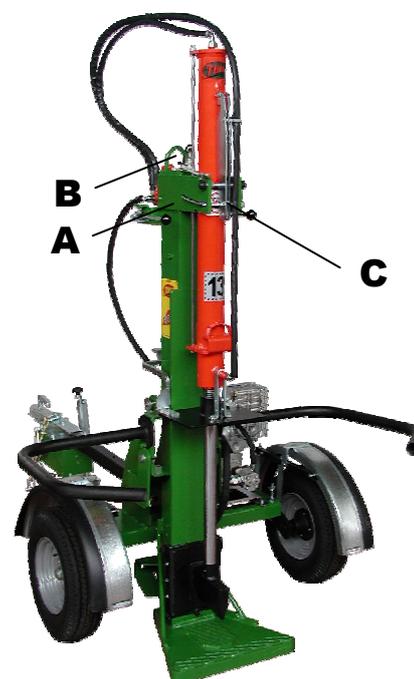
CE label.



Plate (B)
Coupler position for lifting.



Plate (C)
Two persons must not work on this machine together.



**SAFETY INFORMATION**

According to Law 626/94, the safety manager is obliged to inform workers about the risks connected with the use of the machine.

Furthermore, he is obliged to provide workers' training so that they are able to guarantee their safety and the safety of others.

Failure to observe the basic safety standards or precautions could lead to accidents during machine operation, maintenance and repair. An accident can often be avoided by recognizing potentially dangerous situations before they occur. The operator must be careful about the potential dangers and must have the training, expertise and instruments necessary to carry out these duties correctly.

Ricca Andrea & Co. cannot in any case be held responsible for accidents or damage resulting from machine use by personnel not suitably trained or personnel that used the machine in an inappropriate way. Nor can it be held responsible for the failure, even partially, to observe the safety standards and intervention procedures in this manual.

The safety precautions and warnings are indicated in this manual and on the product itself.

If attention is not given to these danger warnings, the operator may incur accidents with serious consequences for himself and other people.

The safety messages are indicated with the following symbols:

 **ATTENTION**

If these messages are not observed, they could be harmful to the operator.

 **WARNING**

If these messages are not observed, they could cause damage to the machine.

The warnings in this manual and on the products regard dangerous situations which are reasonably predictable and do not take into account any deliberate modifications or alterations to the safety devices and the correct working procedures.

If equipment, procedures, work methods or working techniques not expressly recommended by **Ricca Andrea & Co.** are used, it is necessary to ascertain that here is no danger for the operator and for others.

Use original spare parts only

Ricca Andrea & Co. declines every responsibility for the use of non-original spare parts.

• **Safety rules**

 **ATTENTION**

The following indications cannot protect the operator from every danger that he can meet operating the machine. They must be supplemented by the operator's common sense and experience, the only indispensable measures for accident prevention. Further safety rules specific to the various operations are listed in every section.

 **WARNING**

In using electrical machines it is necessary to observe the safety rules so as to exclude the risks of fire and burns.

Read this manual carefully before operating the machine.

If any instruction is not clear, contact the dealer or the manufacturer immediately.

If this manual is damaged or lost, ask the dealer for a replacement copy.

The log-splitter is designed only for normal use in agricultural, domestic or forestry work. Any other use of the machine is to be considered unsuitable.

The manufacturer will not answer for damage resulting from improper use.

Structural damage, modifications, alterations or improper repairs can alter the machine's protection capability thus annulling this certification.

Any modification operations must be carried out exclusively by technicians authorized by **Ricca Andrea & Co.**

For these models powered by a piston motor, read the relative manual enclosed carefully and remember:

Not to leave inflammable materials such as petrol, oils, etc. near the motor when it is running.

If any petrol spills out, clean the area completely and ensure that the fumes have completely dissipated before starting the motor.

To fill the tank in well-ventilated areas and when the motor is off and cold.

Never use the machine in closed or badly ventilated rooms as the exhaust gases of the engine emit carbon monoxide, a gas which has no smell, no colour and is poisonous.

Check that the machine is not damaged in any way.

Keep the machine away from external materials such as broken wood splinters.

Always stop the machine when cleaning, maintenance and transport operations are to be carried out.

The log-splitter must not be left unattended whilst it is running.

The log-splitter must be used exclusively by expert operators who are aware of any possible dangers.

Strictly prevent under-age persons from using the machine.

Two persons must never carry out cutting operations simultaneously.

Sudden distractions could cause physical harm to the person helping.

Do not allow unauthorized personnel near the machine when it is being used.

Ensure that the operating area is well lit.

Do not use the machine in damp places or in adverse weather conditions (snow, rain, etc.).

Always use the log-splitter in places which are as level as possible and which are provided with appropriate safety footwear, working gloves and protective eye screens.

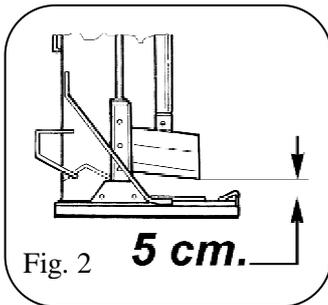
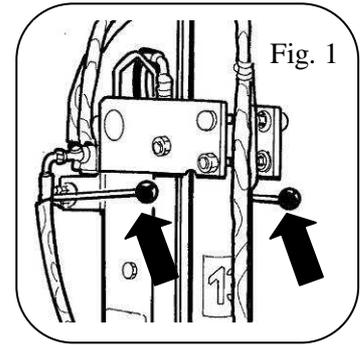
Do not wear loose-fitting clothing or protruding articles which might become entangled in the controls or moving parts of the machine.



CONTROL and SAFETY DEVICES

THE MACHINE IS DESIGNED TO BE USED BY A SINGLE OPERATOR WHO MUST BE POSITIONED IN FRONT OF THE LOG SPLITTER CONTROL LEVERS! (Fig. 1)

THE VARIOUS MACHINE MODELS ARE EQUIPPED WITH A LEAD-SEALED HYDRAULIC SAFETY VALVE DURING TESTING WHICH GUARANTEES THE OPERATOR AND THE HYDRAULIC SYSTEM AGAINST THE RISK OF EXPLOSIONS!



THE BLADE IS PRESET TO STOP AT APPROXIMATELY 5 cm FROM THE LOWER SUPPORT BASE OR THE MOVING BOARD. (Fig. 2)

ATTENTION

STROKE STOPS ARE PROVIDED FOR THE 35 cm CUTTING BOARD.
ALWAYS MOUNT THE STOPS BEFORE USE!

ATTENTION

WHILE OPERATING IN A HORIZONTAL POSITION PAY GREAT ATTENTION DURING THE CUTTER RETURN CYCLE
IF THE WOOD REMAINS BLOCKED IN THE CUTTER DO NOT TRY TO REMOVE IT BY HAND DURING THE AUTOMATIC RETURN CYCLE!

IN CASE OF ANY EMERGENCY, RELEASE ONE OF THE TWO CONTROL LEVERS IMMEDIATELY; THE BLADE WILL BE LOCKED AUTOMATICALLY WHERE IT IS IN THAT MOMENT.

THE MACHINE IS FITTED WITH A DEVICE WHICH STOPS THE CUTTING BLADE IN THE LIFTING PHASE ALWAYS IN THE HIGH END-OF-STROKE POSITION.

WARNING

- DO NOT TAMPER WITH THE DOUBLE SAFETY CONTROL SYSTEMS AND THE STOP SYSTEMS.
- DO NOT TAMPER WITH THE SETTING OF THE LEAD-SEALED HYDRAULIC VALVE.
- TWO PERSONS MUST NEVER WORK AT THE CONTROLS OF THE SAME MACHINE AT THE SAME TIME.
- FOR ROAD TRANSPORT PLEASE SEE THE COMMENTS ON PAGE 17 AND THE INSTALLATION INSTRUCTIONS ON PAGE 14.
- CHECK PERIODICALLY THAT THE SCREWS AND HYDRAULIC PIPE FITTINGS ARE TIGHT AND THE FLEXIBLE HYDRAULIC PIPES ARE IN A GOOD STATE.

• THE FLEXIBLE HYDRAULIC PIPES MUST BE REPLACED EVERY 5 YEARS.

- IT IS ADVISABLE TO USE THE **CROSS-BLADE CUTTER** ONLY FOR LOGS OF **APPROXIMATELY ONE METRE** IN HEIGHT AND WITH STRAIGHT-FILAMENT WOOD.
- DO NOT USE THE CROSS CUTTER WHILE WORKING IN A HORIZONTAL POSITION.
- DO NOT LEAVE THE MACHINE IN UNCOVERED AREAS EXPOSED TO RAIN AND SNOW AFTER FINISHING WORK.
- ALWAYS WEAR SUITABLE SAFETY FOOTWEAR, WORK GLOVES, PROTECTIVE GLASSES.



RECOMMENDATIONS IN CASE OF PROBLEMS

The machine is equipped with an anti-crush sensor in the return phase in vertical position.

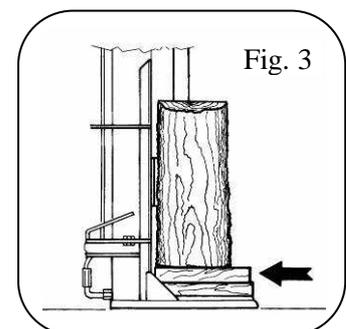
The log could be blocked in the cutter after or during the cutting operation. During upward movement in vertical position this will touch the sensor which will automatically block any movement.

In order to release the blocked wood, the following operations must be carried out:

- Using the two control levers bring the cutter to the lowest position and then release the controls;
- Position the controls in the central position (i.e. in neutral);
- At this point all cutter movements will be blocked;
- Use iron levers, sledges or hammers to release the log hitting hard downwards until it is completely freed.

OTHER USEFUL TIPS TO FREE TRAPPED PIECES

- Being extremely careful, raise the blocked log together with the cutter by about 10 cm, block the controls in the central neutral position, insert one or more sturdy wooden boards between the base of the frame and the log!
- Use the two levers to lower the log until it is completely cut.
- Use the two levers for the return phase and continue with normal work operations.



WARNING

The cross cutter or the 60° cutter might become trapped in the main cutter because of the stress it is subjected to. In this case, after loosening and removing the safety screw, strike the cutter (the cross cutter or the 60° cutter) with a piece of wood or with a hammer so as to release it from its original position.



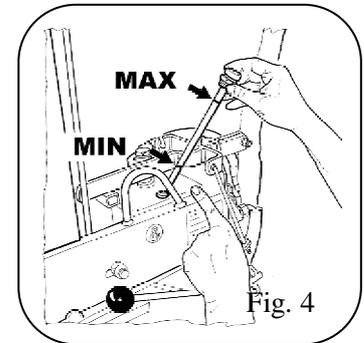
BEFORE THE WORKING CYCLE

After the winter storage, and therefore before the working cycle and before every subsequent use of the machine, respect the following procedures.

Before starting work, check that the flexible hydraulic pipes are in a good state every time. If you are not sure about them, have them replaced by a specialized technician.

Besides, before starting the working cycle, check the oil level using the special stick.

The oil tank is pre-filled by the manufacturer with Sae 46 hydraulic oil in the quantities shown in the technical data. (Fig. 4)



N.B: After carrying out the operations described above, follow the instructions in the installation chapter to start up the log-splitter.

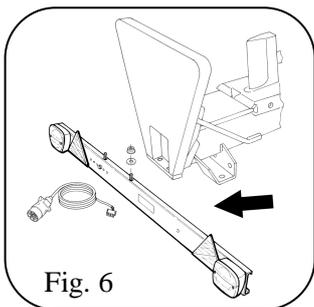


INSTALLATION

Remove any packaging and transport residue.
Clean the machine.

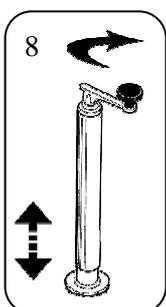
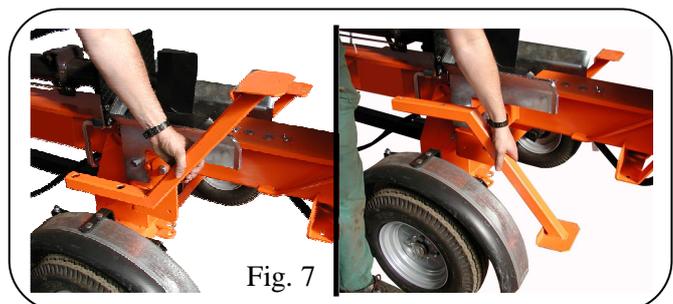
Check that the hydraulic pipes and the pipe fittings are in a good state and have not been damaged during transport and handling.

- Place the machine on a stable level surface. (Fig. 5)



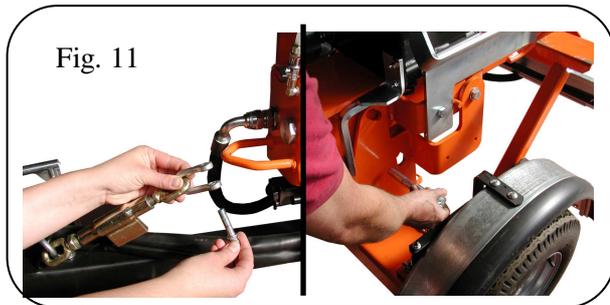
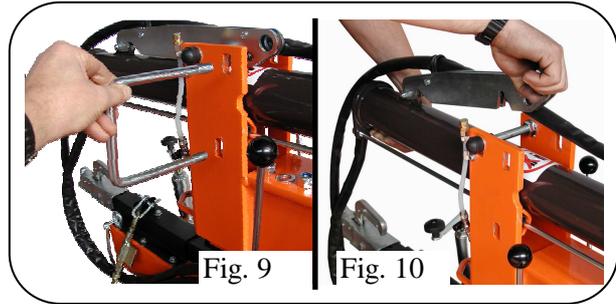
- Remove the rear lights including the connection cables. (Fig 6)
- Remove also the mud flaps. (Fig. 12)

- Turn the support feet from the transport position to the working position and block them in the correct way. (Fig. 7)



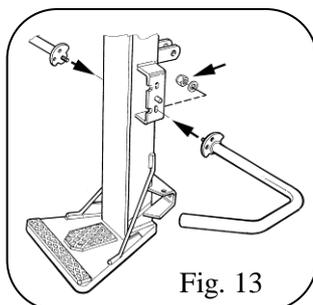
- On the front support foot, turn the screw in an anticlockwise direction until the machine is stable. (Fig. 8)

- Dismantle the hydraulic cylinder clamp U-bolt from the transport position. (Fig. 9)
Raise the hydraulic cylinder slightly from behind (Fig. 10) and move it outwards to its correct position. Next put the U-bolt back in its previous position and block the screws with the spanners supplied.
Open the air snaffle valve.



- Loosen the front tie rod and remove the straight shackle from the side of the log-splitter frame, then remove the safety pin. (Fig 11)

- Grasp the outside part of the hydraulic cylinder and raise the machine to a vertical position (Fig. 12) then block the structure with the safety pin.



- Mount the side protection tubes in their slots (left and right). (Fig. 13)

- FILL THE TANK WITH PETROL WHILE THE ENGINE IS COLD AND CHECK THE OIL LEVEL IN THE ENGINE (Fig. 14) (check also the hydraulic oil level approximately every 100 hours in the log-splitter frame). Place the control levers in the central neutral position.



Check the petrol engine starting procedures in the engine manual attached and start the working cycle.

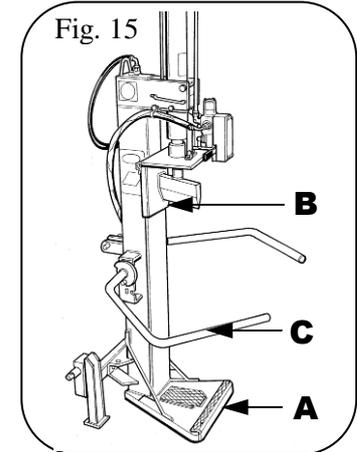
Take the engine to maximum revs, then perform a few loadless working cycles in order to check that all the controls are working correctly.

If working in a horizontal position make sure the frame has a slight upward inclination from the hydraulic cylinder.



WORKING CYCLE

- For cutting 1-metre long pieces in vertical position, always position the side support arms in the correct design position (point **C**).
- To cut the log it is necessary to rotate it on the base of the lower frame (point **A**) or raise it (a small piece) onto the upper working board.
- To block it, push the log against the fixed centring bit (point **B**) with a quick movement.
In this way even logs cut slantwise will always be locked in a correct position.



For cutting pieces up to a maximum of 60cm in length in a horizontal position, always mount the special side guides. (Fig. 16)

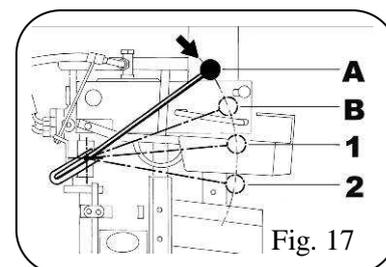
ATTENTION

- **KEEP BOTH HANDS ON THE SIDES OF THE LOG SO AS TO AVOID INJURY CAUSED BY THE CENTRING BIT!**
- Always position the log with the fibre direction of the wood the same as the cutting direction so as to ease breaking. The machine will make less of an effort during the cutting operation thus avoiding excessive wear of the mechanical parts with a consequent increased working life.
- **It is recommended that the cross-blade cutter only be used for logs of approximately one metre in height and with straight-filament wood.**

The machine is pre-set with two cutting speeds and one return speed.

The second descent speed represents approximately half the cutting force of the first speed (see the technical data tables).

- A** = Return position;
- B** = Neutral rest position at stroke end;
- 1** = First cutting speed and MAX power;
- 2** = Second cutting speed and MIN power.



Push both levers downwards together to the MAX point of the stroke. In this way the cutting blade will be brought quickly into contact with the log to be cut.

If the breaking force is enough in this position, keep the two levers pushed downwards until the log-cutting operation is finished.

Or

Release the pushing force of both hands upwards slightly on both levers (so as to allow a small settling of the valve). In this way, the position of the oil flow will go to the **lower speed/MAX power** stage to transmit the effective power of 13 tons to the cutting blade.

The opposite operation is carried out for the end-of-cycle phase. Push both levers upwards to position A and the blade will return to the highest end-of-work position.

OPERATIONS AND MANOEUVRES FOR END-OF-WORK AND TRANSPORT

TIPS for the correct positioning of the hydraulic cylinder and the cutter for final transport operations.

- Raise the cutter to the high stroke-end position.
- Block the control levers in the central position (neutral).
- Stop the engine following the procedures indicated in the supplied manual and remove the side protection tubes (right and left).

- Remove the safety pin for the vertical position. Grasp the hydraulic cylinder or the log-splitter frame in the hook position and turn the log-splitter from the vertical position to the horizontal transport position. Put the safety pin back in the correct transport position (Fig 18) and block it with the special safety pin.



Fig. 18

- Fasten the tie rod using the special straight shackle (Fig. 19) and tension it so as to avoid pitch during road transport.
- Unscrew the clamp screws of the hydraulic cylinder U-bolt (Fig. 20) and remove the U-bolt. Lift the hydraulic cylinder slightly and return it to the transport position. (Fig 21) Remount the U-bolt again and block it with the special screws.

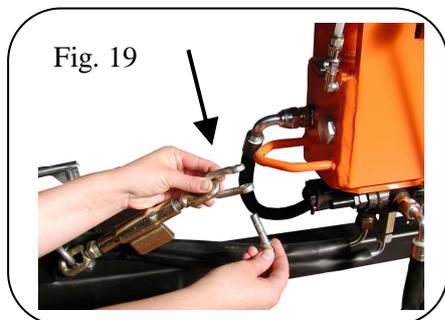


Fig. 19



Fig. 20

Fig. 21

- On the front support foot, turn the screw in a clockwise sense (Fig. 22) until the rear support feet offer no contrast. Turn the rear support wheels to the correct transport position (Fig. 23) and fasten them with the special screws.

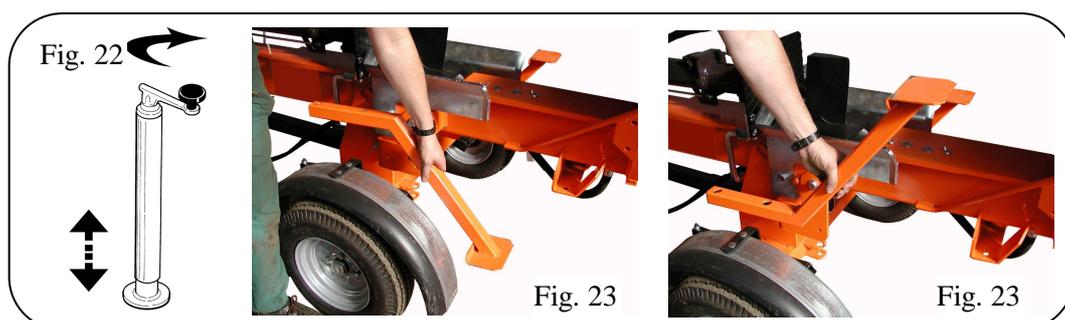


Fig. 22

Fig. 23

Fig. 23

- Attach the tow bar to your car or road vehicle, then block the bar with the key or pin and the safety cable provided (Fig. 24).
- Assemble the rear lights and fasten them with the special screws (Fig. 25). Remount also the mudguards (Fig. 12).

Attach the electric connection cables correctly.

Before starting to drive check that everything is connected correctly.



Fig. 24

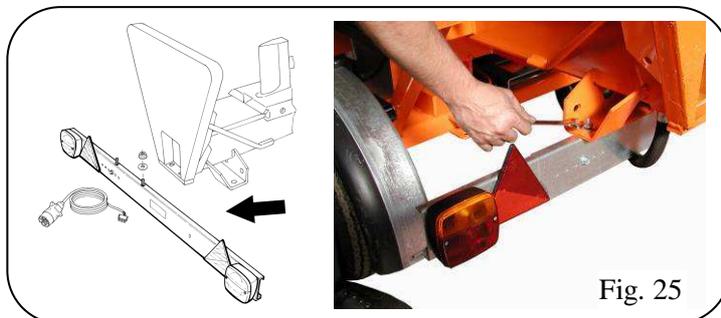


Fig. 25

- Lift the front support foot and block it in the highest position possible for road transport.

N.B: the whole structure (the total mass) to be towed does not exceed 500 kg, therefore brakes are not needed on this frame.

ATTENTION: Check, however, that your vehicle is suitable to tow these weights and that it has all the required documents for road transport and towing.

IMPORTANT! The MAX speed permitted is 100 km/h on fast roads.

⚠ ATTENTION

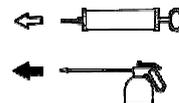
Failure to respect the manoeuvres described above will release the manufacturing company from any commitment to replace parts under guarantee and from any reimbursement for damage to persons and/or things.



Due to its simplicity, the machine does not require special maintenance operations.

It is necessary periodically to:

- Check the flexible pipes of the hydraulic system periodically and replace them **every 5 years**.
- Grease the guides' sliding surfaces every two working hours approximately.
- Lubricate the articulated joints of the handles.



All these maintenance operations must be carried out when the machine is not in motion and the tractor engine is off.

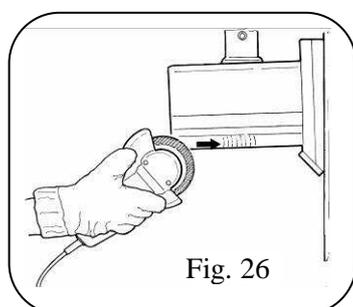


Fig. 26

- Sharpen the cutting blade periodically with a portable grinding stone. (Fig. 26)

- It is advisable to change the hydraulic oil after the first 150 working hours. The hydraulic oil can be drained by removing the 3/8" cap placed under the column (see fig. 27)
Subsequently the hydraulic oil must be changed approximately every 500 working hours about.
- It is advisable to dismount and clean the magnetic filter whenever the oil is changed (Fig. 27).

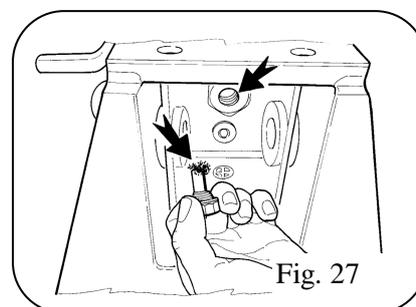


Fig. 27

- After the first 2 to 3 working hours check the hydraulic union tension and thereafter every 100 - 150 hours approximately.
- It is advisable to place the machine in the shade after use as the strong sunlight in summer damages the surface layer of rubber of the flexible pipes and of the pneumatics, and limits its working life!!

N.B. FOR ECOLOGICAL REASONS, DISPOSE OF USED OIL IN SPECIAL OIL COLLECTION CENTRES!!