INSTRUCTIONS FOR THE USE AND MAINTENANCE

OF MANUAL LABOR EQUIPMENT

top pruner

BY-PASS AND ANVIL

ART. 5

READ THESE INSTRUCTIONS CAREFULLY BEFORE USING THE EQUIPMENT

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CAREFULLY STORE THESE INSTRUCTIONS

PRODUCED BY archman
MANIAGO - ITALY

archman
MANIAGO - ITALY

Instructions for use and maintenance of the tool

TOP PRUNER
Art. n. 5 • BY-PASS AND ANVIL

INDEX

Page

1 SAFETY INSTRUCTIONS 13
1.1 WARNINGS. 13
1.2 GENERAL SAFETY INSTRUCTIONS 13
2 EQUIPMENT CHARACTERISTICS. 14
3 USE AND MAINTENANCE 16

INDEX OF THE FIGURES

Page

Figure 2 – Adjusting the length of the rod 16
Figure 3 – Adjusting the angle of the shears 16
Figure 4 – Effectuating a trial run 16
Figure 5 – Approaching the limb with the shears 16
Figure 1 – Components of the pruner (BY-PASS and ANVIL) . . . 43

INDEX OF THE TABLES

Page

Table 1 – General characteristics 14

1.1 Warnings

These instructions for use and maintenance provide the user with useful information to work properly and safely, facilitating the use of the **PRUNER Art. 5**.

It is very important that the user carefully consult and read these instructions before proceeding with use, with the aim of preventing erroneous use and incidents that could undermine the integrity of the equipment or be dangerous to the safety of persons and animals.

It is to be remembered that, during all stages of use of the equipment, regulations regarding safety, occupational hygiene and environmental protection should always be complied with. It is the responsibility of the user to check that the equipment is used only in optimal conditions of safety for both people and for things.

The following symbols are used in all of the instructions:



WARNING!
DANGER TO THE HEALTH AND SAFETY OF PERSONNEL.



WARNING!
DANGER OF ELECTROCUTION.



WARNING!
DANGER OF DAMAGE TO EQUIPMENT.

1.2 General safety instructions

Before using the equipment:

- Check the status of the equipment before using it (e.g. any deformations);
- Wear protective gear IPR (cut-resistant gloves, safety shoes, safety helmet, goggles);
- Verify the correct tightening of wing nuts (at each use);
- Adjust the length of the rod, according on the height of the branch to be cut.

During use:

- Do not use near electrical cables under tension;
- If necessary to work at heights, use of stable access means (cherry-picker, scaffolding, etc.);
- Maintain a strong grip while cutting;
- Do not use the pruner in the presence of other people or animals in the cutting area.



WARNING!
It is prohibited to use the pruner in the presence of persons/animals in the cutting area. Remove persons/animals from the path of falling branches.



WARNING!
Danger of electrocution.
It is prohibited to use the pruner in proximity to electric cables under tension.

2 EQUIPMENT CHARACTERISTICS

Table 1
General characteristics

The equipment is designed to allow the cutting of branches and pruning of trees to a height of 4 meters from the ground (or from the standing level of the operator). It consists of a rod extendable at its end and to which a spring device is mounted, which reproduces the features of normal scissors or shears. The particular form of leverage can multiply the force applied by the pull, and this, coupled with the shear's dimensions, allows the cutting of branches of larger dimensions.

PRUNER

MATERIALS

MAIN BODY	Nylon
SHEARS	Steel
HANDLE	Nylon

COMPONENTS	Part in Design	Quantity
BY-PASS BLADE	1	1
COUNTER BLADE	2	1
COUNTER BLADE HOLDER WITH GEARING ORIENTATION	3	1
CLOSURE CAP WITH GEARING	4	1
INTERNAL WHEEL FOR ORIENTATION OF THE HEAD, COMPLETE	5	1
WINGNUT LOCKING PLUG	6	1
SHELL COVER, SMOOTH MOVEMENT	7	1
SHELL COVER, GEARING MOVEMENT	8	1
PULLEY HOLDER	9	1
PULLEY D26	10	2
PULLEY D21	11	2
TUBE CLAMP	12	1
HANDLE WITH SAFETY LOCK	13	1
EXTERNAL TUBE (ROD)	14	1
INTERNAL TUBE	15	1
PLUG, EXTERNAL TUBE END	16	1
PLUG, INTERNAL TUBE END	17	1
WINGNUT TUBE CLAMP	18	1
PULLEY PIN	19	1
BUSHING 6MAx12	20	1
SPRING f2_D14_L75	21	1
SELF-LOCKING NUTS M4	22	10
SELF-LOCKING NUT M10x1	23	1
SELF-LOCKING NUTS M6	24	2
RING d8.5/D21.5x1.5	25	1
SCREWS TCEI M4x12	26	10
SCREW TCEI M6x12	27	1
SCREW TCEI BASSA M6x8	28	1
SCREW TE M10x18mm/13	29	1
HEAD ROPE 0.55m	30	1
ROD ROPE (4m for small pruners; 6.5m for large pruners)	31	1
PULLEY D28.5	32	1

COMPONENTS	Part in Design	Quantity
COMPLETE BY-PASS HEAD,CONSISTING OF	33	1
1 – BY-PASS BLADE		
2 – COUNTER BLADE		
29 – BUSHING		
23 – NUT		
21 – SPRING		
20 – BUSHING 6MAx12		
25 – RING d8.5/D1.5x2		
11 – PULLEY D21		
28 – SCREW TCEI LOW M6x8		
ANVIL BLADE	34	1
ANVIL	35	1
LEVER	36	1
ANVIL SUPPORT AND LEVER	37	1
SCREWS FOR BLADE OR ANVIL M8x14.5	38	2
SCREW FOR SUPPORT M8x18	39	1
SELF-LOCKING NUTS M8	40	3
LOWER HANDLE	41	1
SAFETY LOCK	42	1
ANVIL HEAD, COMPLETE, CONSISTING OF	43	1
34 – BLADE		
35 – ANVIL		
36 – LEVER		
37 – ANVIL SUPPORT AND LEVER		
38 – SCREW FOR ANVIL M8x14.5 - 2 PZ		
39 – SCREW FOR SUPPORT M8x18		
40 – SELF-LOCKING NUT M8		
21 – SPRING		
20 – BUSHING 6MAx12		
25 – RING d8.5/D1.5x2		
11 – PULLEY D21		
28 – SCREW TCEI LOW M6x8		

3 USE AND MAINTENANCE

Before using the pruner

The closing of the shears occurs through a rope externally of the equipment and is activated by a handle sliding on a tube that, through a series of pulleys, generates the cutting motion.

- Verify that the tool is intact and complete with all its components.
- Remove the cap on the shears.
- Unscrew the clamp wing nut (item 18 in Figure 1), adjust the length of the rod, depending on the height of the branch to be cut.
- Firmly tighten the clamp wing nut.
- Unscrew the upper locking wing nut (item 6 in Figure 1) and adjust the angle of shears depending on the positioning of the branch.
- Re-tighten the upper locking wing nut making sure, with small circling movements, that the internal gears mesh perfectly.
- Perform a no-load test of the closing of the shears in order to check the smooth sliding of the components involved (ropes, handles, pulleys).

N.B: If the cut is in correspondence with a roadway or in a place subject to transit of vehicles (e.g. branches that overhang the road), **place a warning signal for the intervention area and wear a high visibility vest.**



Fig 2 – Adjust the length of the rod





Fig 3 – Adjust the angle of the shears



During use of the pruner

- Move any persons or animals away from the area.
- To cut, it will be sufficient to rest the blade on the branch to be cut and pull the handle down, gripping the shaft with the other hand (as in Figure 4).
- After use, insert the protective blade guard.



Fig 4 – Effectuate a no-load test

WARNING!
Wear personal protective gear PPE (cut-resistant gloves, safety shoes, helmet, goggles).

WARNING!
It is prohibited to use the pruner in the presence of persons/animals in the cutting area. Move people/animals away from the area of falling branches.

WARNING!
The blades of the shears are sharp. Do not touch.

WARNING!
The Customer is asked to follow such instructions, failing which there will be no guarantee of continuity of operational performance of the equipment.

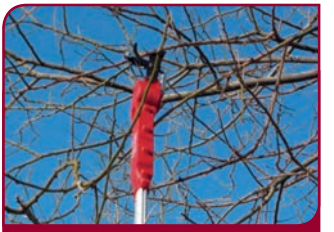


Fig 5 – Move the pruner toward the branch

MAINTENANCE

The equipment does not requires any special maintenance. Periodically verify the conditions:

- of the shears (provide for periodically oiling the moving surfaces;
- of the ropes;
- of the handle;
- of the correct tightening of nuts and bolts (or eventual accidental loss: restore).



WARNING!
Do not use the equipment if the conditions do not guarantee its safe use. If working at heights, use stable means of access (cherry-picker, scaffolding, etc.).

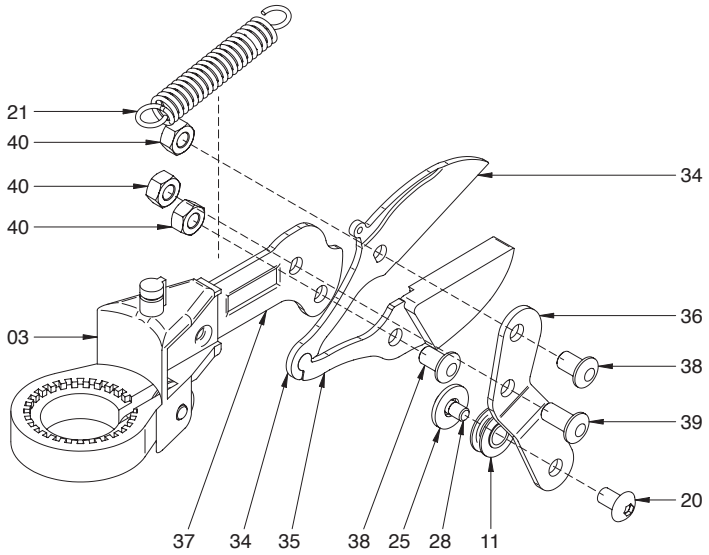


WARNING!
Do not use near electrical cables under tension.

AVAILABLE VIDEO ON YOUTUBE _ See: SNIPER EVOLUTION SOSTITUZIONE CORDA – YOUTUBE

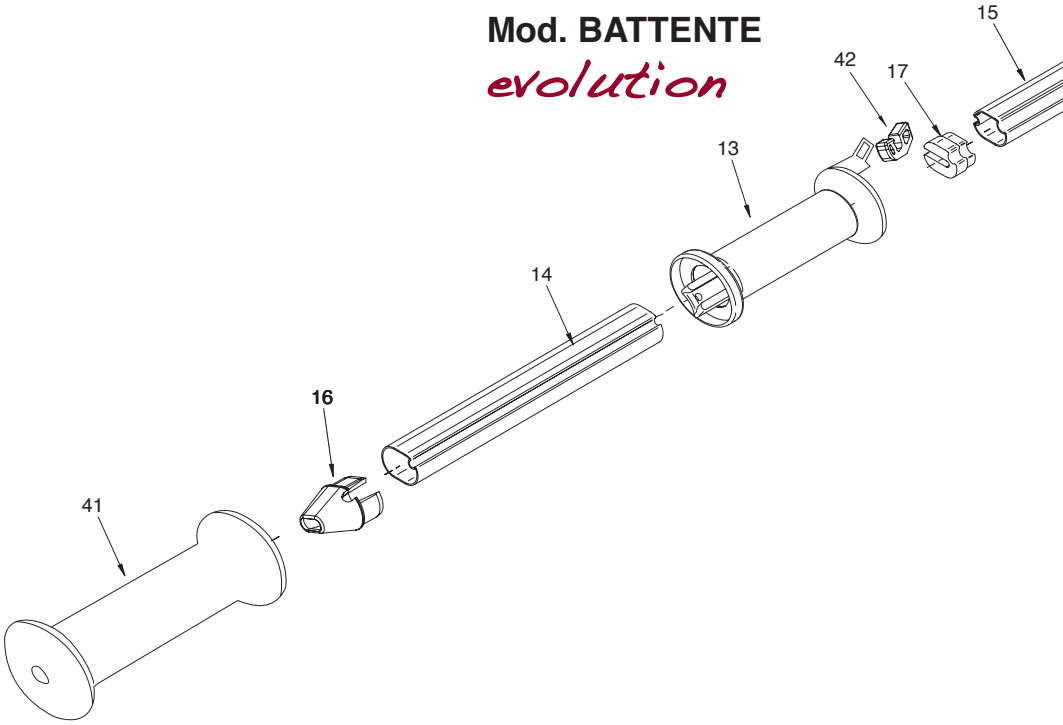
For the substitution of the ropes or the restoring of the same on completing the substitution of internal parts of the equipment:

1. Take the smooth shell (7) with the 10 4 (22) inserted self-locking nuts in the apposite position;
2. Place the complete head (33) at the top of the shell (7) in the vicinity of the bolt;
3. Take the clamps (12), insert the rope of 4m or 6.5m (31), depending on the measure of pruner (small or large), by the larger part, then pushing it through the hole and forming a knot;
4. Insert the clamp (12), complete with the rope on the internal aluminium handle (15) with two grooves on the side of the two holes;
5. Line up the two holes of the inside handle (15) on their apposite positionings on the shell (7);
6. Take the loop of the rope (31) and sliding it to the exterior of the inside aluminuum handle (15), insert it through the hole of the sliding cord cap (17), and now slide it into the inside aluminium tube (15);
7. Take the assembled pulley holder (09), i.e. with two pulleys D26 (10) and with the rope for the head of 0.55m (30), holding it in place with the knot toward yourself;
8. Thread the rope (31) on the lower pulley (10);
9. Pull the rope until it is blocked;
10. Now insert the rope (31) onto the upper pulley (10);
11. Place the pulley holder (9) towards the head of the pruner and connect the pulley D28.5 (32) on the apposite location of the shell (7) near the inside aluminium handle, passing the rope (31);
12. Again take the loop of the rope (31) threading it through on the clamp (12) nearby the groove of the inside aluminum handle (15);
13. Insert the head of the rope (30) on the appropriate groove of the head (33);
14. Take the internal wheel (5);
15. Insert the internal wheel (5) on the bolt of the shell (7);
16. Rotate the rope (30) around the inside wheel (5) starting from the forward part (from left to right) and proceeding on the after part (from right to left) and returning on the forward part, causing the rope (30) to pass the cap, underneath the rope itself;
17. Take the upper shell with gearing (8) positioning it on the lower shell (7); insert the 10 screws TCEI M4*12 (26);
18. Take the assembled closure cap (4);
19. Thread the closure cap (4) onto the lower shell bolt (7) and also screw in the 10 screws TCEI M4/12 (26);
20. Insert the head rope (30) through the apposite head opening (33);
21. Make a knot;
22. Place the loop of rope that is formed on the lever-blade pulley (33);
23. Tighten the rope forcibly to arrange the knots;
24. Introduce the external tube (14) inside the internal tube (15) and send it fully home up to the jubilee clip (12);
25. Take the plastified screw/wingnut (18) + screw TCEI M6*12 (27) + 2 self-locking nuts M6 (24);
26. Place the plastified screw/wingnut (18) with self-locking nut M6 (24) in its place at the second hole closest to the aluminum handle and make sure the tubes slide together;
27. Take the grip with safety lock (13);
28. Insert the rope (31) onto the handle (13) on the narrowest part and pass it through the first oval hole;
29. Introduce the grip (13) onto the external aluminium handle (14);
30. Make a knot at 107/108 cm from the end of the rope and pull it forcibly;
31. Pass the rope through the round hole in the grip (13)
32. Take the external tube end cap (16) and insert it onto the external tube (14);
33. Pass the rope inside the tube end cap (16);
34. Take the lower grip (41) and pass the rope inside it, insert it onto the tube until it is fully home and make a knot at 5 cm. from the end of the rope.



Mod. BATTENTE

evolution



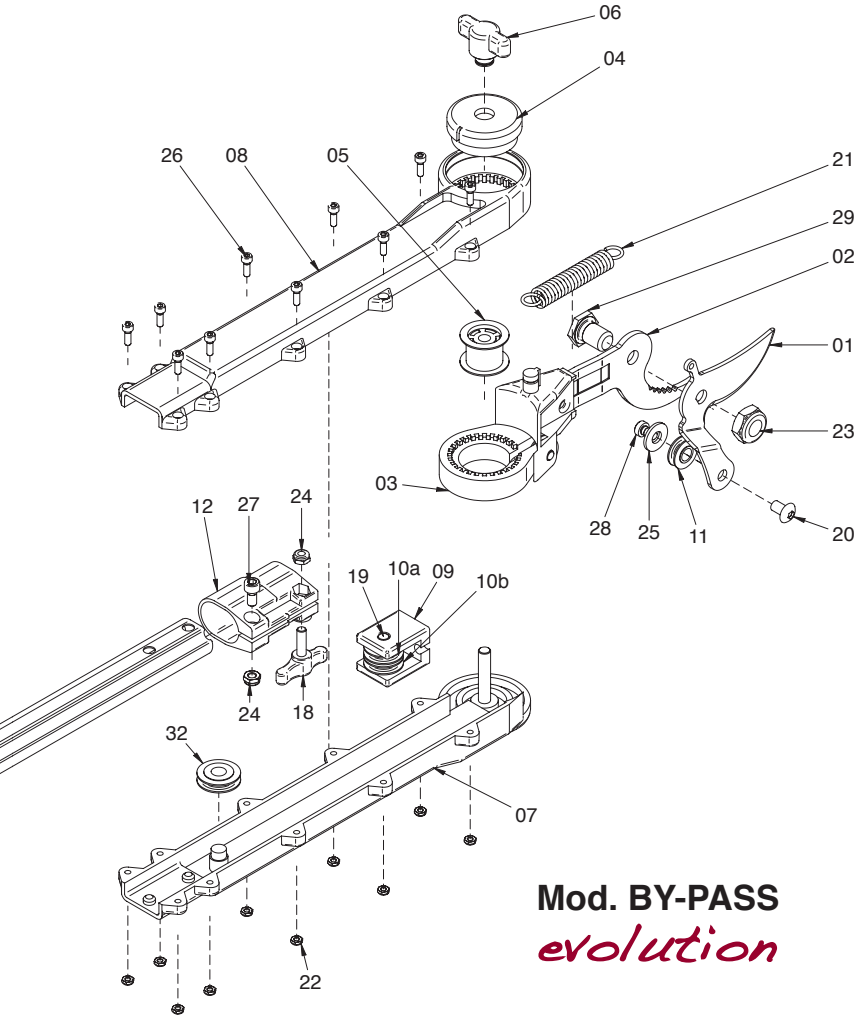


Figura 1 – Componenti dello svettatoio (BY-PASS e BATTENTE)
Figure 1 – Components of the pruner (BY-PASS and ANVIL)
Abb. 1 – Komponenten der Astschere (ZWEISCHNEIDIG und AMBOSS)
Figure 1 – Composants de l'échenilloir (BY-PASS et ENCLUME)
Figura 1 – Componentes de la podadora (BY-PASS y YUNQUE)

NOTE



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