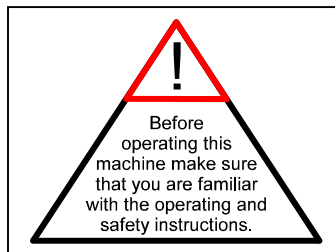


**MODEL 5 1005 0010
UTILITY AIR CHAIN SAW**



OPERATING MANUAL



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1 - INTRODUCTION

1.1 Consulting the Use & Maintenance Manual

Before working on the equipment, carefully read and understand this Use & Maintenance Manual in order to safeguard the operator and to avoid damaging the equipment.

These instructions describe how to operate the equipment safely, economically and in compliance with the current safety regulations. Following these instructions helps avoid dangerous situations, reduce repair costs and down-time and extend the service life of the equipment.

This manual is to be kept legible and in good condition. The operating and maintenance staff should have this manual at hand, so that they can consult it whenever needed.

1.2 Symbols and qualifications of the operators

All operations described in this manual should be performed by qualified personnel and as outlined in the manufacturer's manual. Each procedure described herein is accompanied by an icon which indicates the qualifications required by the operators. The instructions required to identify the personnel qualifications are given below.



Operators

Unqualified personnel capable of operating the equipment under the supervision of qualified people.



Mechanics

Qualified personnel capable of installing, servicing and repairing the equipment as directed in this manual.

AUTHORIZED SERVICE POINTS

These are the centres, indicated by our sales staff, authorized to repair the products manufactured by CAMPAGNOLA S.r.l.



WARNING!

Precautions to be taken in order to safeguard the operators and bystanders in the work area.



IMPORTANT!

Precautions to be taken in order to avoid problems with the equipment and to operate it in compliance with the current safety regulations.

1.3 Compliance certificate

All equipment to be marketed in the European Union (EU) fully complies with the European Council Directive 98/37/EC. The compliance certificate is supplied by the manufacturer with the Use & Maintenance Manual.

1.4 Receiving the product

When receiving the product, make sure:

- the product has not been damaged during transport;
- the product supplied is the same as that ordered. Check that all accessories have been delivered (refer to "Product Description", "Specifications" chapter).

If problems arise, contact the CAMPAGNOLA S.r.l. Service Department quoting all details stamped on the nameplate (refer to "Product Description", "Specifications" chapter).

1 - INTRODUCTION

1.5 Warranty

- The tools and machines manufactured by CAMPAGNOLA S.r.l. are guaranteed for 1 or 2 years, depending on the kind of product, starting from their purchase date indicated in the invoice or in any other document with legal value.
- The warranty is to be considered valid only if the installation and use of the compressor and/or tools have been carried out according to the instructions indicated in the Use and Maintenance Manual or to instructions written by the Authorized Service Point personnel (Service program).
- Originally faulty parts will be repaired or replaced free of charge.
- The purchaser shall pay for the labour and transport costs.
- All the parts subject to wear (belts, filters, blades, seals, etc.) are not subject to the warranty.
- The eventual costs of intervention performed by the Campagnola personnel (inspections, disassembling and assembling operations), caused by wrong working which was not due to manufacture faults, are not included in the warranty.
- Replacements or repairs of faulty equipment, when warranty is claimed by the users, can only be authorized by accredited Service Points personnel and their decision is final.
- The Company shall not be held responsible for any injury or damage caused to people, animals or things, due to improper use or maintenance of the compressor and/or tools. The warranty is limited to the manufacture defects.
- The warranty is lost in case of tampering and /or even small changes and in case of use of non-original spare parts.
- In any case the replacement of the tool is excluded.



WARNING!

For warranty claims, according to the above mentioned points, it is necessary to enclose the properly filled-in warranty card and the corresponding purchase proof with date of purchase (invoice or any other document with legal value).

2 - SAFETY PRECAUTIONS

2.1 Precautions



WARNING!

CAMPAGNOLA S.r.l. declines all responsibilities if the precautions below are not taken.

2.1.1 Results of the tests made by law



WARNING!

Risks due to the operator's contact with the noise and vibrations of the machine or tool.

1) **NOISE LEVEL**

Continuous sound pressure level (A) in the working place, measured according to the UNI EN 27182 regulations:

$$LpA_{eq} = 93 \text{ dBA}$$

Sound pressure level, measured according to the ISO 9207 regulations:

Measured sound power level: $LwA = 101 \text{ dBA}$

Guaranteed sound power level: $LwA = 102 \text{ dBA}$

Being the LpA over 90 dBA, the following obligations have to be fulfilled:

- **Operator's education through specific training.**
- **Supply of anti-noise devices and control of the tool/machine real use.**

2 - SAFETY PRECAUTIONS

2) VIBRATIONS LEVEL

The medium quadratic value of the acceleration, which the operator's hand-arm system has to bear according to the frequency, has been measured complying with the UNI ISO 7505 regulations:

- Front handle test while idling: $a_{\text{heq}} = 0.17 \text{ m/s}^2$
- Front handle test while working: $a_{\text{heq}} = 3.72 \text{ m/s}^2$
- Rear handle test while idling: $a_{\text{heq}} = 0.37 \text{ m/s}^2$
- Rear handle test while working: $a_{\text{heq}} = 2.65 \text{ m/s}^2$

The resulting values, according to the auxiliary tools which have been used, have turned out to be high, since they overcome the reference limit of 2.5 m/s^2

The following obligations have to be fulfilled:

- The operator shall undergo a periodic check up.
- The operator shall be informed about the vibrations risks.
- The employer shall take any necessary steps to cut the operator's risks to the minimum.

2.1.2 General precautions



WARNING!

- Always use adequate clothing as called for by the job. Wear tight clothing. Do not wear ties, necklaces or belts which may get caught in the moving parts. Use anti-sliding shoes and protective gloves.
- Wear anti-noise hearing protection.
- Do not operate, service or repair the equipment if you are under the influence of alcohol or drugs which could impair your alertness or co-ordination.
- Only well trained and qualified personnel who have read the use and maintenance manual carefully are allowed to use the tool.
- Keep children and animals away from the tool.
- Never alter the safety and protective devices.
- The operator is the only responsible for injuries caused to other people or for damage caused to their properties.
- Do not use the tool when you are in unstable position or off balance.
- It is forbidden to operate the tool on ladders.
- Never cut branches which are close to electric wires.
- Before any ordinary maintenance operations, read the use and maintenance manual carefully. For any maintenance operation which is not indicated in this manual, please contact one of the CAMPAGNOLA S.r.l. Authorized Service Points.
- Use the tool just for the aims indicated in, 'Description of the Product'. Any other kind of use may cause injuries.

2 - SAFETY PRECAUTIONS

2.2 Tool operating precautions

- Always hold the tool with both hands on the handle and make sure you are in a steady and safe work position.
- Use the tool just for the aims indicated in "Description of the Product". Any other kind of use may cause injuries.
- Always check that the safety devices are perfectly efficient.
- Transport the tool by keeping its bar (10) backwards, protected by its bar guard (32). The air hose must be disconnected from the coupling (15).
- Before starting the tool, make sure the chain (11) is not in contact with anything.
- Hold the handles (7) and (17) with both hands tight.
- When cutting, make the motor run at high speed.
- Never cut higher than the operator's shoulders.
- Never cut branches having a diameter which is over 150 mm, if the bar is 8", or over 200 mm, if the bar is 10" [see picture (D)].
- Follow the chain manufacturer's instructions as for the chain (11) sharpening and maintenance.
- Never use the tool if it is damaged, uncorrectly regulated or only partially assembled.
- Be very careful when cutting bushes or small shrubs, since soft parts may get entangled in the chain and then may be thrown against the operator, or they may make him loose his balance.
- Be very careful with the handles (7) and (17). They must be always perfectly dry, clean and free from oil residues.
- Check the oil level. It must always reach at least the half of the chain reservoir (26). Lack of oil causes chain seizing.
- Be careful with the kickback effects due to upwards directed reaction movements of the bar (10). They may make the operator loose his balance or the tool control.



SAFETY RULES ABOUT THE KICKBACK EFFECT

Kickback may be caused when the bar (10) top touches an object or when some wood stops or crushes the chain (11) during the cutting operations. In order to prevent from or reduce the kickback effect, hold the tool with both hands tight.

2.3 Maintenance



WARNING!

Before performing any maintenance operations or adjustments on the mechanical parts of the equipment, put on heavy-duty work shoes, gloves and goggles.

- Routine maintenance and repairs can be carried out only by an **operator** with the necessary physical and intellectual qualifications.
- Special maintenance and repairs can be carried out only by a **service mechanic**.
- Before any maintenance or adjustment operations, disconnect the air hose.
- Keep bystanders away when servicing or repairing the machine.
- Only **service mechanics** are authorized to inactivate the safety devices provided on the machine when maintenance is to be performed. It is their responsibility to safeguard the operators and the machine. The safety devices should be activated as soon as maintenance work has been completed.
- All maintenance procedures not dealt with in this manual are to be performed at CAMPAGNOLA S.r.l. Authorised Service Points.
- When maintenance or repairs have been completed, the machine can be started again only if duly authorized by the **service mechanic**. The service mechanic must make sure:
 - work has been completed;
 - the machine runs in a trouble-free manner;
 - the safety devices are activated;
 - no one is working on the machine.

3 - SPECIFICATIONS

3.1 Product identification

The tool identification details are indicated on the plate (1).



3.2 Product description

The pneumatic chainsaw is a tool which is used for cutting and pruning orchards, vineyards, citrus and olive trees and similar plants.

The version with 1/4" chain (11) can be supplied either with 8" or with 10" bar (10). It is fitted with an ergonomic handle (17) made of acetalic resins. The motor (24) is made of light alloy, and there is an oil reservoir (26) for the automatic bar (10) lubrication. The tool is endowed with an ON/OFF switch (18), an active safety device (20) on the operating lever (21) and an inertial chain brake (28), which prevents the operator from dangerous kickback effects while working. This safety system stops the chain (11) of the cutting bar (10) immediately.

The chainsaw can be connected with an extension pole (3) or (5).

3.3 Supplied parts

- Use & Maintenance Manual.
- Keys set.

3.4 Recommended use

The chainsaw has been created for cutting and pruning according to the above-described manners and limits.



WARNING!

- Any other use has to be considered improper and potentially dangerous for the operators' safety. This would make any warranty claims void.
- If it is not used for the purposes it was designed for, the shear may cause serious injury to personnel and bystanders and damage to equipment and things.

3 - SPECIFICATIONS

3.5 Tool parts

| POS. | DESCRIPTION | FUNCTION | PICTURE NO. |
|------|------------------------------|--|-------------|
| 1 | Plate | Shows the product identification details | B |
| 2 | Extension pole fixing system | Fixes the extension pole | C |
| 3 | Telescopic extension pole | Allows to cut high branches w/o using a ladder | C |
| 4 | Extension pole connection | Connects the pole with the chainsaw | C |
| 5 | Fixed extension pole | Allows to cut high branches w/o using a ladder | C |
| 6 | Fixing screws | Fix the support handle | E |
| 7 | Support handle | Allows the operator to hold the tool while working | E |
| 8 | Hand guard | Protects the operator's hand against dangerous kickback effects | E |
| 9 | Fixing screws | Fix the hand guard | E |
| 10 | Bar | Drives the cutting chain | E |
| 11 | Chain | Cuts branches, trunks, etc. | E |
| 12 | Fixing screws | Fix the front protection | E |
| 13 | Front protection | Protects the chain rotation system | E |
| 14 | Fixing nuts | Fix the bar | E |
| 15 | Coupling | Connects the tool with the air hose | F |
| 16 | Pneumatic valve | Drives the tool operating | F |
| 17 | Handle | Is hold to control the tool operation | F |
| 18 | ON/OFF switch | Makes the tool operate, when it is in ON position, or stops it, when in OFF position | F |
| 19 | Hand guard | Protects the hands | F |
| 20 | Safety catch | Controls the operating lever | F |
| 21 | Operating lever | Operates the tool when it is pressed | F |
| 22 | Warning plate | Indicates the safety symbols for the operator | G |
| 23 | Tap | Closes the oil reservoir | G |
| 24 | Motor | Operates the cutting bar | G |
| 25 | Connection | Connects the operating handle with the motor | G |
| 26 | Oil reservoir | Contains the lubricating oil | G |
| 27 | Ring nut | Fixes the operating handle | G |
| 28 | Brake | Stops the inertial movement of the chain | H |
| 29 | Screw | Fixes the chain brake spring | H |
| 30 | Chain direction | Is shown in the picture | H |
| 31 | Pin | Is the connection point to fix the brake spring | H |
| 32 | Chain guard | Protects the chain when the tool is not being used | I |
| 33 | Adjusting screw | Regulates the chain tension | I |
| - | Protective clothing | The picture shows the clothing the operator has to wear | A |
| - | Max. cutting diameter | The picture shows the max. diameter which can be cut according to the bar length | D |

3.6 Technical details

- 8" chainsaw weight: 2,350 kg
- 10" chainsaw weight: 2,450 kg
- Cutting bar (10) length: 8" - 10"
- Air consumption: NI/I' 400
- Working pressure: 1000 kPa (10 bar)
- Max. cutting size with 8" bar: Ø 150 mm
- Max. cutting size with 10" bar: Ø 200 mm
- Inertial chain brake (28): YES
- ON-OFF switch (18): YES
- Active safety device (20): YES
- Chain bar automatic lubrication: YES
- Connection with extension pole: YES



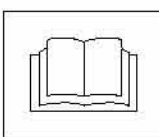





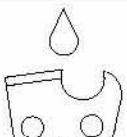
3 - SPECIFICATIONS

3.7 Safety devices

- ON-OFF switch (18): stops the operating lever (21).
- Active safety device (20): is inserted automatically when releasing the operating lever (21) and prevents from accidental tool working.
- Inertial chain brake (28): stops the chain (11) of the cutting bar (10) immediately.
- Hand guard (19): protects the operator's hands.
- Bar guard (32): protects the chain bar (10) during the transport.

3.8 Plate, symbols, warnings (22)



| | |
|--|--|
|  General warning |  Compulsory foot protection |
|   Duty of reading the use & maintenance manual |  Compulsory hands protection |
|  Compulsory head protection |  Duty of holding the tool with both hands |
|  Compulsory adequate clothing |  Chain lubrication |

4 - INSTALLATION AND CONTROLS BEFORE THE USE

4.1 Starting

Before starting working, it is necessary to wear protective clothing according to picture (A) and to check that all the safety and protection devices are efficient and assembled correctly.

Check the chain bar (10) and the chain (11) for proper assembly and the chain (11) for adequate tension.

Check all the fixing screws for correct tightening

Full the oil reservoir (26) to lubricate the chain. Use SAE 30 oil. Lack of oil may cause chain (11) seizing.

Adjust the working pressure at 10 bar.

For a proper chainsaw use, connect it with a straight air hose having a 8 mm inner diameter and being not longer than 50 m.

Before connecting the tool with the air supply, check that the couplings are clean in their inner part.

Keep the air lubrication at its minimum level. Use SAE 10 oil. When necessary, add oil into the compressor lubricator.

5 - USE OF THE TOOL

5.1 Use of the chainsaw

Use the coupling (15) to connect the tool with the compressed air supply.

Put the ON/OFF switch (18) in OFF position and hold the tool with both hands.

Push the safety catch (20) forwards. Pull the operating lever (21) to start the tool.

When releasing the operating lever (21), the active safety catch (20) inserts automatically and the tool stops.

At the end of the work, put the ON/OFF switch (18) in OFF position and put the bar into its guard to protect the chain.



WARNING!

Use the tool for the aims described in “Description of the product” only. Any other kind of use may cause injuries.

5.2 Connecting the chainsaw with an extension pole

By performing the following operations, the chainsaw can be connected with the extension pole:

- Unscrew first the ring nut (27), then the handle (17).
- Remove the support handle (7) by unscrewing the two screws (6).
- Remove the hand guard (8) by unscrewing the two screws (9).
- Screw the extension pole onto the connection (25) on the motor (24) by using the supplied key.

5.3 Troubleshooting



WARNING!

All the maintenance operations have to be performed by a mechanic.

| FAULT | CAUSE | REMEDY |
|---|--|---|
| The chainsaw does not work. | a) The air regulator in the compressor is closed. b) The air hose is clogged. c) The ON/OFF switch (18) is in OFF position. d) The inertial chain brake (28) is inserted. e) The chain (11) is not tensioned enough. | a) Adjust the pressure regulator at 10 bar. b) Disconnect the air hose and check it and the couplings for inner cleanness. c) Put the switch in ON position. d) Free the brake by pulling the hand guard (8) backwards. e) Regulate the chain (11) tension by using the adjusting screw (33) of the bar (10). |
| The chainsaw is not powerful enough. | a) The air hose is dirty inside. b) The compressor pressure is not enough. c) The motor is not lubricated. | a) Disconnect the air hose and blow compressed air to remove impurities. b) Check that the compressor pressure reaches 10 bar. c) Check the oil level in the compressor lubricator. |
| Air leaks from the valve (16) of the handle (17). | a) The valve (16) gaskets are worn out or damaged. | a) Disassemble the handle valve and replace the gaskets even if only slightly worn out. |

6 - MAINTENANCE

6.1 Ordinary maintenance



WARNING!

- Before carrying out any maintenance operation, disconnect the tool from the compressed air hose.
- All the maintenance operations which are not described in this manual have to be performed in a **CAMPAGNOLA S.r.l. Authorized Service Point**.
- The ordinary maintenance operations may be carried out by the operators.

6.1.1 General

Before any maintenance operations:

- Put the switch (18) in OFF position.
- Disconnect the compressed air hose.
- Put safety gloves on.

6.1.2 Chain tension adjustment

Perform the following operations:

- Loosen the nut (14).
- Turn the screw (33) clockwise to stretch the chain (11), anti-clockwise to loose it.
- Fix the nut (14).

6.1.3 Replacing the chain (11)

Perform the following operations:

- Unscrew the nut (14) and the two screws (12) which fix the front protection (13).
- Loosen the chain bar (10) by unscrewing the screw (33) anti-clockwise.
- Remove the bar (10) with the chain (11) and replace it taking care of the correct position of the cutting teeth (see picture H).
- Assemble the bar (10) with the new chain (11), then the protection (13) and screw the nut (14) partially.
- Stretch the chain (10) by screwing the adjusting screw (33) clockwise.
- When the right tension has been reached, fix the nut (14) and screw the two fixing screws (12) of the front protection (13).

6.1.4 Lubricating the chain bar (10)

The oil quantity flowing on the bar is pre-regulated by the manufacturer.

Always check the oil level in the reservoir (26). The lubrication is carried out automatically.

Use SAE 30 oil to lubricate the chain (10). To add oil, unscrew the tap (23) in the upper part of the chainsaw body.



WARNING!

The lack of lubrication may cause seizing of the chain (11) of the bar (10).

6.1.5 Maintenance at the end of the work

At the end of the work, before storing the tool for a period of time, it is suggested to put some oil drops into the air coupling (15) in the handle (17) and make the chainsaw idle for some seconds. This will avoid the formation of deposits due to air moisture.



WARNING!

Remove the front protection (13) periodically and eliminate the cutting residues which might prevent the inertial chain brake (28) from working perfectly.

6.2 Extraordinary maintenance

6.2.1 General

Before any maintenance operation:

- Wear protective gloves.
- Put the switch (18) in OFF position.
- Disconnect the compressed air hose.



WARNING!

Any extraordinary maintenance operation shall be performed in a CAMPAGNOLA S.r.l. Authorised Service Point.

6.2.2 Cleaning the valve (16)

- Unscrew the valve tap (16).
- Remove the valve softly.
- Check the seal and replace it even if only slightly worn out.
- Blow compressed air onto the stem and seat of the valve, then assemble it again by following the operations in reverse.

6.2.3 Cleaning the chain bar (10) and the lubrication holes

Clean these parts often, especially before using the tool.

- Remove the chain (11) and clean its drive.
- Clean the lubrication holes.

6.2.4 Cleaning the inertial chain brake (28)

- Remove the front protection (13) and unscrew the two screws (12).
- Remove all the cutting residues by blowing compressed air.
- Assemble the front protection (13) again by carrying out the same operations in reverse.

6.2.5 Replacing the chain brake (28)

- Remove the front protection (13) and unscrew the screw (29) and the two screws (12).
- Unscrew the brake pin (31).
- Unscrew the nut (14) and loosen the chain bar (10) by unscrewing the screw (33) anti-clockwise.
- Remove the chain (11).
- Replace the brake spring (28) and then assemble the unit again carrying out the same operations in reverse. Check the chain moving direction (30).

Model 5 1005 0010 - Utility Air Chain Saw

CS Unitec, Inc.

22 Harbor Avenue

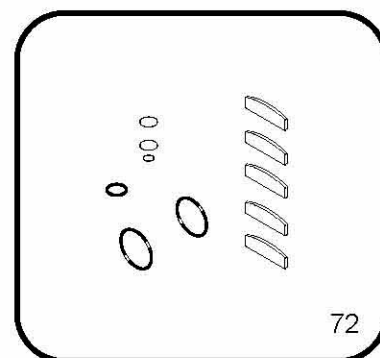
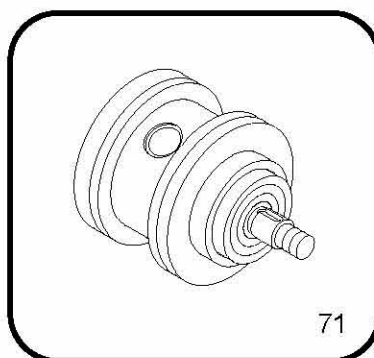
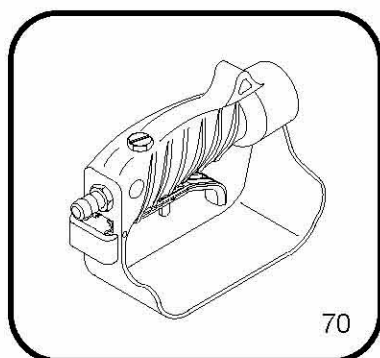
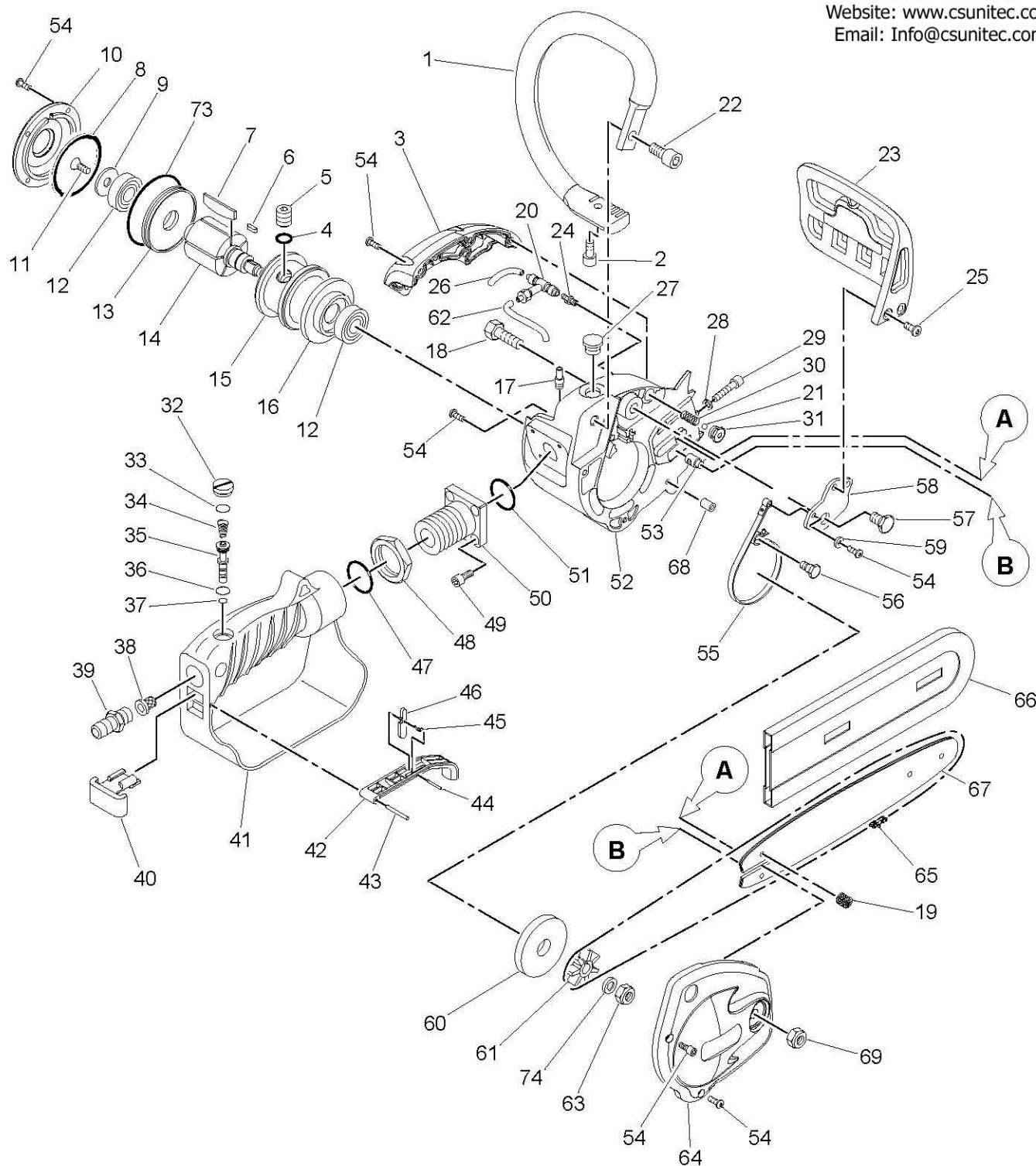
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Tel: 800-700-5919

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Website: www.csunitec.com

Email: Info@csunitec.com



MODEL 5 1005 0010 - Utility Air Chain Saw

| Pos. | Part Number | Description |
|------|-------------|---------------------|
| 1 | 0140.0140 | Handle |
| 2 | 0106.0374 | Screw |
| 3 | 0183.0133 | Oiler Cover |
| 4 | 0123.0127 | O-Ring |
| 5 | 0106.0368 | Screw |
| 6 | 0130.0136 | Key |
| 7 | 0186.0106 | Vane (5 Required) |
| 8 | 0123.0252 | Motor Seal |
| 9 | 0101.0112 | Washer |
| 10 | 0183.0132 | Motor Cover |
| 11 | 0106.0358 | Screw |
| 12 | 0127.0133 | Bearing |
| 13 | 0122.0139 | End Plate |
| 14 | 0187.0108 | Rotor |
| 15 | 0188.0104 | Cylinder Bushing |
| 16 | 0122.0140 | End Plate |
| 17 | 0125.0160 | Oil Barb |
| 18 | 0106.0373 | Bolt |
| 19 | 0102.0122 | Filter |
| 20 | 6111.0004 | Oil T |
| 21 | 0191.0116 | Ball |
| 22 | 0106.0343 | Screw |
| 23 | 0132.0275 | Hand Guard |
| 24 | 0160.0245 | Valve |
| 25 | 0106.0370 | Screw |
| 26 | 0120.0121 | Hose |
| 27 | 0133.0161 | Oil Cap |
| 28 | 0101.0125 | Washer |
| 29 | 0106.0149 | Screw |
| 30 | 0164.0212 | Spring |
| 31 | 0133.0184 | Plug |
| 32 | 6133.0005 | Cap with O-Ring |
| 33 | 0123.0153 | O-Ring |
| 34 | 0164.0143 | Spring |
| 35 | 6129.0006 | Plunger with O-Ring |
| 36 | 0123.0210 | O-Ring |
| 37 | 0123.0128 | O-Ring |
| 38 | 0102.0108 | Screen |
| 39 | 0115.0108 | Air Fitting |
| 40 | 0168.0113 | Grip |
| 41 | 0140.0139 | Handle |
| 42 | 6148.0007 | Lever |
| 43 | 0159.0140 | Pin |
| 44 | 0159.0139 | Pin |

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MODEL 5 1005 0010 - Utility Air Chain Saw

| Pos. | Part Number | Description |
|------|-------------|---------------------|
| 45 | 0164.0141 | Spring |
| 46 | 0168.0114 | Safety Lever |
| 47 | 0123.0270 | O-Ring |
| 48 | 0161.0103 | Nut |
| 49 | 0106.0249 | Screw |
| 50 | 0166.0125 | Handle Mount |
| 51 | 0123.0129 | O-Ring |
| 52 | 0171.0283 | Motor Housing |
| 53 | 0103.0163 | Pin, Bar Adjustable |
| 54 | 0106.0372 | Screw |
| 55 | 0164.0208 | Break |
| 56 | 0125.0215 | Bolt |
| 57 | 0125.0216 | Bolt |
| 58 | 0135.0113 | Cover |
| 59 | 0101.0106 | Washer |
| 60 | 0109.0176 | Motor Cover |
| 61 | 0189.0116 | Sprocket |
| 62 | 0120.0122 | Hose |
| 63 | 0100.0126 | Nut |
| 64 | 0132.0274 | Sprocket Cover |
| 65 | PACK.0411 | Chain 10" |
| 66 | 0132.0178 | Bar Cover 10" |
| 67 | 0153.0160 | Bar 10" |
| 68 | 0178.0100 | Sleeve |
| 69 | 0100.0154 | Nut |
| 70 | 6140.0005 | Handle Complete |
| 71 | 6146.0007 | Motor Complete |
| 72 | PACK.0407 | Vane and Seal Kit |
| 73 | 0123.0244 | O-Ring |
| 74 | 0101.0104 | Washer |

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