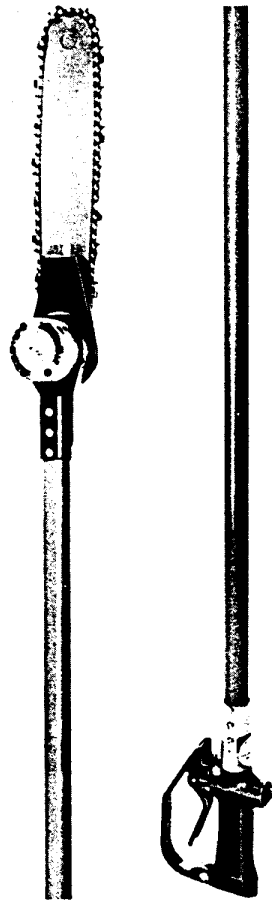
CS23/26
POLE
CHAIN SAW



Safety, Operation and Maintenance Manual

Focused on performance ™

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05428 4/93R

SAFETY PRECAUTIONS

Tool operators and maintenance personnel must always comply with the safety precautions given in this manual and on the stickers and tags attached to the tool and hose.

These safety precautions are given for your safety. Review them carefully before operating the tool and before performing maintenance or repairs.

Supervising personnel should develop additional precautions relating to the specific work area and local safety regulations. If so, place the added precautions in the space provided on page 5.

GENERAL SAFETY PRECAUTIONS

- Operators must start in a work area without bystanders. Flying debris can cause serious injury.
- Establish a training program for all operators to ensure safe operation.
- Do not operate the tool unless thoroughly trained or under the supervision of an instructor.
- Always wear safety equipment such as goggles, ear, head and leg protection, gloves, snug fitting clothing and safety shoes at all times when operating the pole chain saw.
- Do not overreach. Maintain proper footing and balance at all times.
- Do not inspect or clean the tool while the hydraulic power source is connected. Accidental engagement of the tool can cause serious injury.
- Always connect hoses to the tool hose couplers before energizing the hydraulic power source. Make sure all hose connections are tight.
- Do not operate the tool at fluid temperatures above 140°F/60°C. Operation at higher temperatures can cause higher than normal temperatures at the tool which can result in operator discomfort.
- Do not rely exclusively upon the safety devices built into the saw. As a pole chain saw user, several steps must be taken to keep your cutting jobs free from accident or injury.

    1. With basic understanding of kickback, you can reduce or eliminate the element of surprise. Sudden surprise contributes to accidents.
    2. Keep a good firm grip on the pole chain saw with both hands. Place your right hand on the rear handle and your left hand on the outer tube assembly when operating. Use a firm grip with your thumbs and fingers encircling the chain saw handle and outer tube assembly. A firm grip helps reduce kickback and maintains control of the pole chain saw. Do not let go.
    3. Make sure the area in which you are cutting is free of obstructions. Never allow the nose of the guide bar to contact a branch or any other obstruction that can be accidently hit while operating the saw.
    4. Cut at the rated operating speeds (gpm).
    5. Follow the manufacturer's sharpening and maintenance instructions for the saw chain.
    6. Only use replacement bars and chains specified by Stanley or equivalent.

- Make sure you're well rested and mentally alert before operating the pole chain saw.
- Do not start cutting until you have a clear work area, secure footing and a planned drop area for falling branches.
- Keep all parts of the body away from the saw chain during operation.
- Carry the saw with the unit deenergized.
- Do not operate a pole chain saw that is damaged, improperly adjusted, or not completely and securely assembled. Make sure the chain stops moving when the control trigger is released.
- Use extreme caution when cutting small branches. Twigs may catch the saw chain and be whipped toward the operator or pull the operator off balance.
- When cutting a limb that is under tension, be aware of springback so you will not be struck when the tension on the limb is released. Always cut on the outside arc or curve.
- Keep the handle dry, clean and free of hydraulic fluid.
- When using tools near energized transmission lines, make sure to use only hoses labeled and certified non-conductive.
- Turn off the power unit or move the hydraulic control valve to neutral before setting the pole chain saw down.
- Use a guide bar scabbard when transporting the saw.
- Know the location of buried or covered electrical services before starting work.
- To avoid personal injury or equipment damage, all tool repair, maintenance and service must only be performed by authorized and properly trained personnel.

ELECTRICAL HAZARDS

The following guidelines must be followed to prevent accidental contact with overhead electrical conductors and/or communication wires and cables. (ref. ANS Z133.1-1982)

⚠ WARNING

All overhead conductors and all communication wires and cables are considered to be energized with potentially fatal voltages and must never be touched either directly or indirectly. Accidental contact with any overhead conductors or communication wires and cables can result in death or serious injury.

1. A close inspection shall be made by the tool operator and by the tool operator's supervisor to determine whether an electrical conductor passes through the tree or passes within reaching distance of the tool operator.

2. Only qualified tool operators shall be assigned to the work if an electrical hazard exists.

3. A second qualified tool operator must be within normal voice communication during line clearing operations aloft when the tool operator approaches closer than 10 feet (3 m) to any conductor or electrical apparatus energized in excess of 750 volts, or when roping is required to remove the branches or limbs.

4. Tool operators must maintain the following clearances from energized conductors:

Voltage Range (phase-to-phase) (kV)	Minimum Working Distance
2.1 to 15.0	2 ft 0 in. (0.6 m)
15.1 to 35.0	2 ft 4 in. (0.7 m)
35.1 to 46.0	2 ft 6 in. (0.75 m)
46.1 to 72.5	3 ft 0 in. (0.9 m)
72.6 to 121.0	3 ft 4 in. (1.0 m)
138.0 to 145.0	3 ft 6 in. (1.05 m)
161.0 to 169.0	3 ft 8 in. (1.1 m)
230.0 to 242.0	5 ft 0 in. (1.5 m)
345.0 to 362.0	7 ft 0 in. (2.1 m)
500.0 to 552.0	11 ft 0 in. (3.35 m)
700.0 to 765.0	15 ft 0 in. (4.55 m)

All other tree workers must maintain a minimum clearance of 10 feet (3 m) from energized conductors rated 50 kV phase-to-phase or less. Conductors rated over 50 kV phase-to-phase require a minimum clearance of 10 feet plus 4/10 of an inch (3 m plus 10 mm) for each kilovolt over 50 kV.

5. When a lifting device contacts an electrical conductor, the truck supporting the device is considered to be energized and contact with the truck must be avoided except when emergency rescue procedures are being carried out. Emergency rescue should only be attempted by properly trained personnel familiar with electrical hazards.

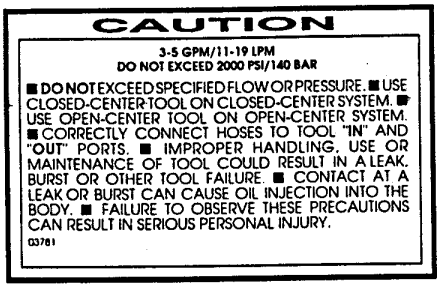
6. Storm work and emergency conditions create special hazards. During these conditions, only authorized tool operators shall perform any tree operation.

TOOL STICKERS AND TAGS

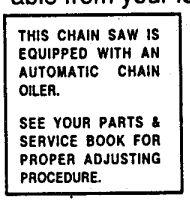
The safety related stickers attached to the pole chain saw prior to shipment from the factory are shown below.

The pressure and flow rates specified must never be exceeded. All stickers must be read and understood prior to operation of the tool.

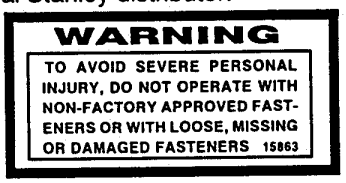
The information listed on each sticker must be legible at all times. Always replace stickers that have become worn or damaged. They are available from your local Stanley distributor.



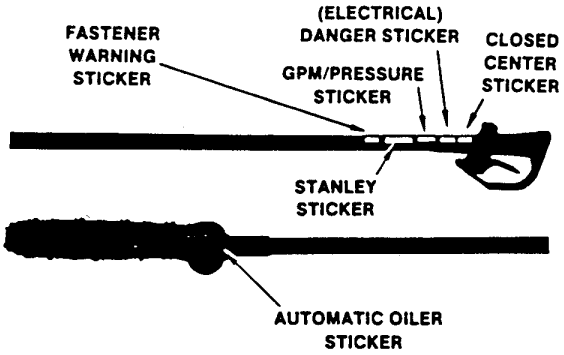
GPM/PRESSURE STICKER CS26 MODELS

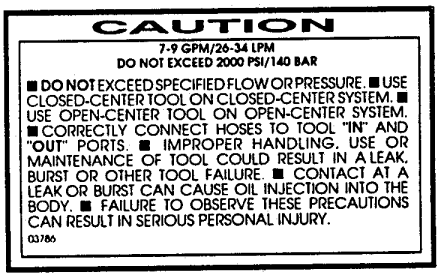


AUTOMATIC OILER STICKER



FASTENER WARNING STICKER



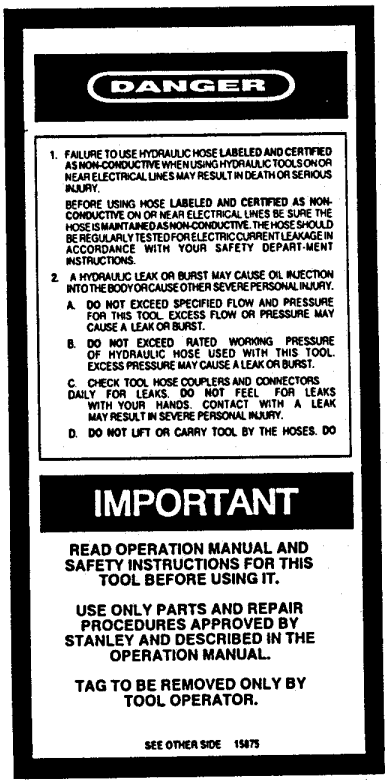


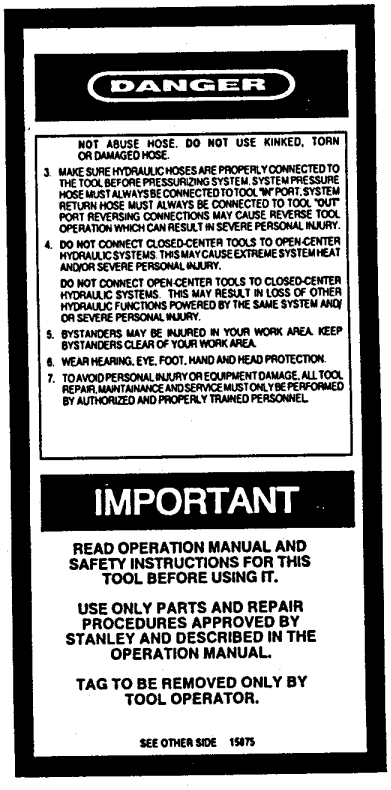
GPM/PRESSURESTICKER CS23MODELS

WHEN APPLICABLE

CLOSED CENTER STICKER

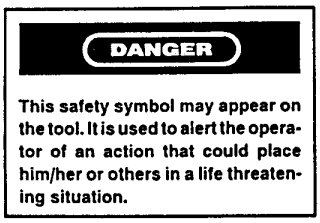
The safety tag at the right is attached to the pole chain saw when shipped from the factory. Read and understand the safety instructions listed on this tag before removal. We suggest you retain this tag and attach it to the pole chain saw when not in use.

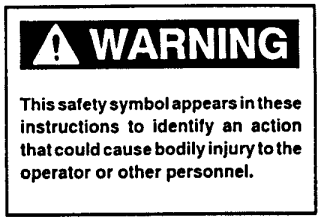


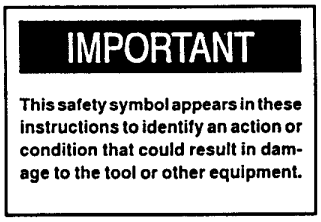


SAFETY SYMBOLS

Safety symbols are used to emphasize all operator, maintenance and repair actions which, if not strictly followed, could result in a life-threatening situation, bodily injury or damage to equipment.







Always observe safety symbols. They are included for your safety and for the protection of the tool.

LOCAL SAFETY REGULATIONS

Enter any local safety regulations here. Keep these instructions in an area accessible to the operator and maintenance personnel.

EQUIPMENT PROTECTION AND CARE

IMPORTANT

In addition to the Safety Precautions on pages 1 thru 3 of this manual, observe the following for equipment protection and care.

- Always store an idle pole chain saw in a clean dry space, safe from damage or pilferage.
- Keep the chain sharp for maximum tool performance.
- Always keep critical tool markings, such as labels and warning stickers legible.
- Always replace hoses, couplings and other parts with replacement parts recommended by Stanley Hydraulic Tools. Supply hoses must have a minimum working pressure rating of 2500 psi/ 175 bar.
- All hoses must have an oil resistant inner surface and an abrasive resistant outer surface. When near electrical conductors, use clean, labeled and certified non-conductive hoses.
- Tool repair must only be performed by properly trained service personnel only.
- Make certain the recommended relief valves are installed in the pressure side of the system .
- Make sure all couplers are wiped clean before connection. Use only lint-free cloths.
- The hydraulic circuit control valve must be in the "OFF" position when coupling or uncoupling hydraulic tools. Failure to do so can result in damage to the quick couplers and cause overheating of the hydraulic system.
- Do not use the tool for applications it was not designed for. The saw chain is designed to cut wood only.

HYDRAULIC HOSE REQUIREMENTS

HOSE TYPES

Hydraulic hose types authorized for use with Stanley Hydraulic Tools are as follows:

1. Labeled and certified non-conductive
2. Wire braided (conductive)
3. Fabric braided (not certified or labeled non-conductive)

Hose 1 listed above is the only hose authorized for use near electrical conductors.

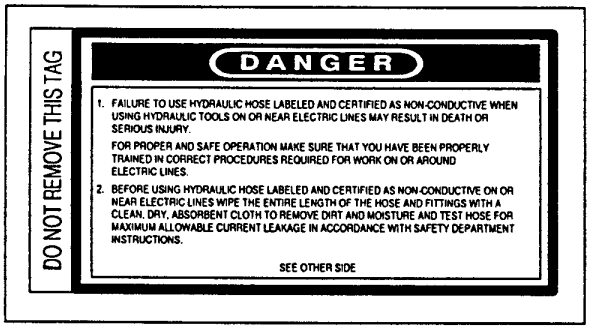
Hoses 2 and 3 listed above are conductive and must never be used near electrical conductors.

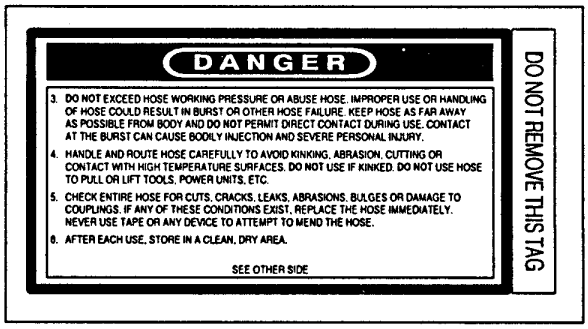
To help ensure your safety, the following DANGER tags are attached to all hoses purchased from Stanley Hydraulic Tools. DO NOT REMOVE THESE TAGS.

If the information on a tag is illegible because of wear or damage, replace the tag immediately. A new tag can be obtained at no charge from your Stanley distributor.

1 CERTIFIED NON-CONDUCTIVE HOSE

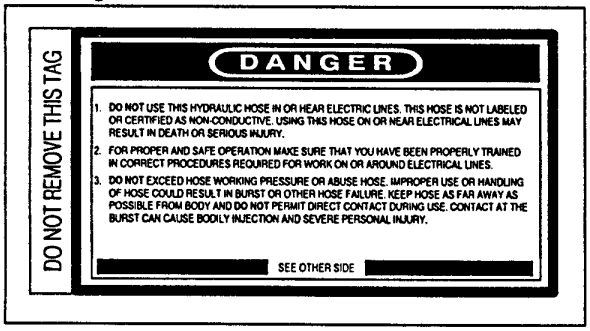
This tag is attached to all certified and labeled **non-conductive** hose.

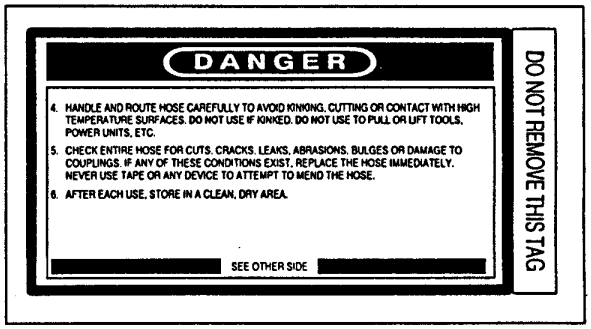




2 AND 3 WIRE- AND FABRIC-BRAIDED (NOT CERTIFIED OR LABELED NON-CONDUCTIVE) HOSE

This tag is attached to all **conductive** hose.





HOSE PRESSURE RATING

The rated working pressure of the hydraulic hose must be equal to or higher than the relief valve setting of the hydraulic system used to power the pole chain saw.

HYDRAULIC SYSTEM REQUIREMENTS

- For the CS26, the hydraulic system should provide a flow of 3-5 gpm/11-19 lpm at an operating pressure of 1500-2000 psi/105-140 bar. For the CS23, the hydraulic system should provide a flow of 7-9 gpm/26-34 lpm at an operating pressure of 1000-2000 psi/70-140 bar. Recommended relief valve settings are 2100-2250 psi/145-155 bar.

- The system should have no more than 250 psi/17 bar backpressure measured at the tool end of the operating hoses. The system conditions for measurement are at maximum fluid viscosity or 400 ssu/82 centistokes (minimum operating temperatures).

- The hydraulic system should have sufficient heat rejection capacity to limit the maximum fluid temperature to 140° F/60° C at the maximum expected ambient temperature. The recommended minimum cooling capacity is 5 hp/3.73 kW at a 40° F/22° C difference between ambient temperature and fluid temperature.

- The hydraulic system should have a minimum of 25 micron filtration. It is recommended that filter elements be sized for a flow of at least 30 gpm/ 114 lpm for cold temperature startup and maximum dirt holding capacity.

- The hydraulic fluid used should have a viscosity between 100 and 400 ssu/20 and 82 centistokes at the maximum and minimum expected operating temperatures. Petroleum base hydraulic fluids with antiwear properties and a viscosity index over 140 will meet the recommended requirements over a wide range of operating temperatures.

- The recommended hose size for the CS23 is 0.500-inch/12 mm I.D. up to 50 ft/15 m long and 0.625-inch/16 mm I.D. minimum up to 100 ft/30 m long.

- The recommended hose size for the CS26 is 0.375-inch/10 mm I.D. up to 30 ft/ 9 m long and 0.500-inch/12 mm I.D. minimum up to 100 ft/30 m long.

OPERATING INSTRUCTIONS

SYSTEM SELECTION

Pole chain saws are available for operation with either closed-center (c.c.), open-center (o.c.) or dual spool (o.c./c.c.) system.

1. Determine the system type.

2. For operation in a closed-center system, select a pole chain saw identified for closed-center use.

3. For operation in an open-center system, select a pole chain saw identified for open-center use.

4. A pole chain saw with a "Dual Spool" can be used on open-center or closed-center systems by setting the valve to match the system.

CHECK POWER SOURCE

1. Using a calibrated flowmeter and pressure gauge, make sure the hydraulic power source develops a flow of 3-5 gpm/11-19 lpm at 1500-2000 psi/105-140 bar for the CS26 or a flow of 7-9 gpm/26-34 lpm at 1000-2000 psi/70-140 bar for the CS23.

2. Make sure the power source is equipped with a relief valve set to open at 2100-2250 psi/145-155 bar.

CONNECTING HOSES

1. Wipe all hose couplers with a clean lint-free cloth before making connections.

2. Connect the hoses from the hydraulic power source to the tool fittings or quick disconnects. It is a good practice to connect return hoses first and disconnect them last to minimize or avoid trapped pressure within the tool.

3. Observe the arrow on the couplers to ensure that the flow is in the proper direction. The female coupler on the tool is the inlet (pressure) coupler.

4. Move the hydraulic circuit control valve to the "ON" position to operate the tool.

Note: If uncoupled hoses are left in the sun, pressure increase inside the hoses can make them difficult to connect. If possible, connect the free ends of the hoses together.

TOOL OPERATION

SELECTING O. C. OR C. C. OPERATION (DUAL SPOOL ONLY)

1. To select open-center operation, turn the valve assembly selection screw fully counter-clockwise.

2. To select closed-center operation, turn the valve assembly selection screw fully clockwise.

⚠ WARNING

The following are general woodcutting procedures and techniques. Differences in the terrain, vegetation and type of wood will make this information more or less valid for particular areas. For advice on specific woodcutting problems or techniques for your area, consult your local Stanley representative or your county agent. They can often provide information that will make your work safer and more productive.

CUTTING TIPS

1. Check the lean of the tree. Tie a weight to a piece of string about 2-feet long. Hang the weight in your line of sight. The string is a good vertical line to help you judge the lean of the tree. The tree should fall the way it is leaning. Trees that are straight (leaning no more than five degrees) generally can be felled in any direction.

2. Check the weight distribution. A tree is heavier on the side with the most limbs. It will try to fall on its heavy side. Trim a few limbs to balance the tree.

3. Clear the work area. You need a clean area all around the tree. Get everything out of the area where the limbs might fall. Do not cut trees near structures. Because of the danger of electrocution, use extreme care when cutting trees near power lines.

4. The chain saw should cut with very little pressure applied to the handle. If you have to force the cut or if the cut is not straight, cease cutting immediately to prevent further saw chain and bar damage. See the MAINTENANCE AND ADJUSTMENTS section in this manual for chain replacement, sharpening or adjustment procedures.

FELLING OR TOPPING

1. Observe safety precautions

Notching or Undercutting

2. The notching or undercutting cut is made on the side you want the tree to fall.

3. Start the cut horizontally. Cut to about one-quarter of the tree's diameter.

⚠ WARNING
Watch out for falling limbs.

4. Make a diagonal cut down to meet the horizontal cut and remove the wood from the notch.

Felling or Back Cut

5. The felling or back cut is made on the side opposite and at least 2-inches above the horizontal undercut (the felling cut is made higher as the size of the tree increases).

6. Start the cut horizontally parallel to the notch cut. Cut until the saw is about 1- or 2-inches from the notch. **Do not cut through the notch.**

Note: The uncut wood between the felling and notch cuts is called the hinge. The hinge controls the fall of the tree and should be of uniform thickness.

7. As the saw nears the back cut, watch the treetop and the cut for signs of movement. Be alert as soon as the tree starts to move, turn off the saw, pull it from the tree and move away quickly on your escape route.

LOGS/LIMBS WITH PRESSURE ON BOTTOM (FIGURE 2)

1. Observe all safety precautions.

2. Begin with a bottom-cut. The depth of the cut should be about one-third of the log diameter.

3. Finish with an upper cut, down from the top. The saw cuts should meet.

PRUNING AND TRIMMING

1. Observe all safety precautions.

2. Use both hands. Keep a firm grip.

3. Be alert for kickback. Do not allow the tip of the bar to touch anything while the chain is in motion.

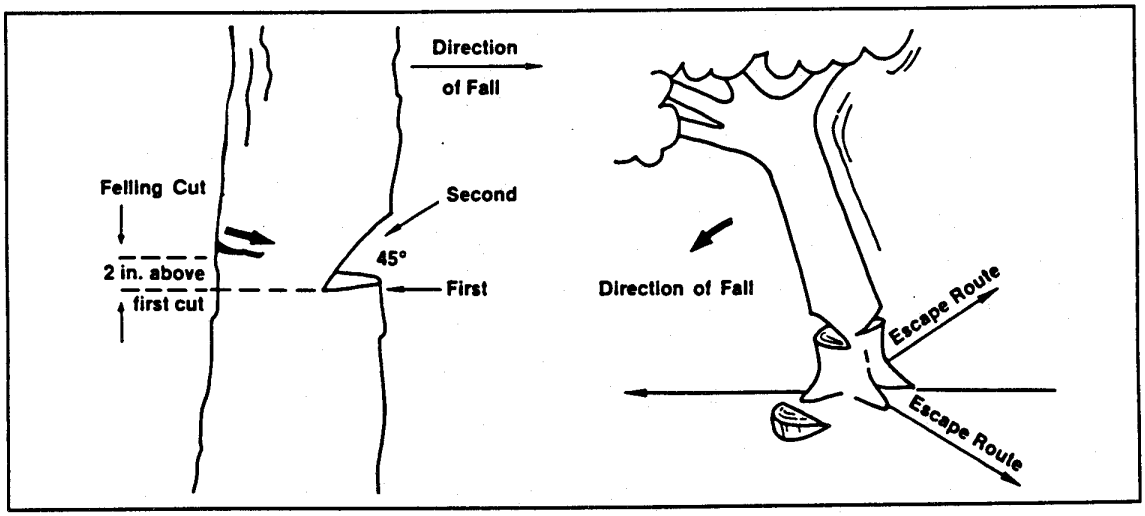


Figure 1. Felling a Tree.

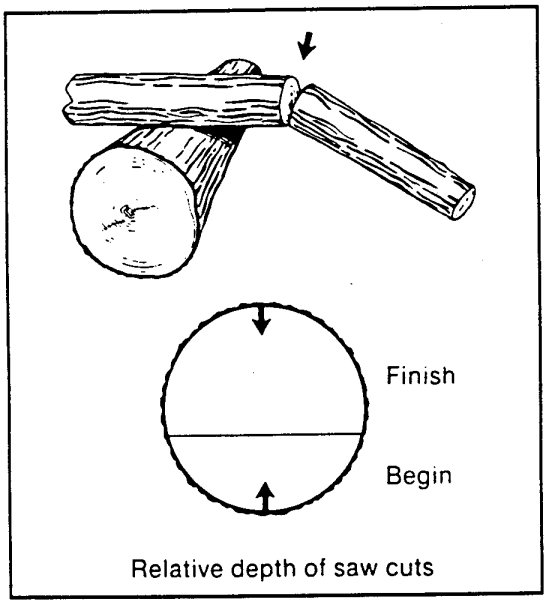


Figure 2. Crosscutting Logs/Limbs with Pressure on Bottom.

4. Pole chain saws must be hung securely in a vertical position to prevent dislodgement. Pole chain saws must not be hung on utility wires or cables and must not be left in the tree overnight. Pole chain saws must be hung so the sharp edge is away from the worker, if possible.

5. Warnings, when necessary, must be given by the worker in the tree before a limb is dropped. "Timber" or "heads up" are common terms used for this purpose.

6. A separate line should be attached to limbs that cannot be dropped safely or are too heavy to be controlled by hand. The line should be held by workers on the ground end of the rope. Use of the same crotch for both the safety rope and the work rope should be avoided.

7. The safety line or climbing rope must not be used for any purpose but for climbing.

8. Cut branches must not be left in trees overnight.

TOPPING/LOWERING LIMBS

1. Observe all safety precautions.

2. Use both hands. Keep a firm grip.

3. Workers performing topping operations should make sure the trees are able to stand the strain of a topping procedure. If not, some other means of lowering the branches should be provided, such as a tree crane.

4. If large limbs are lowered in sections, the worker in the tree should be above the limb being lowered.

5. Guidelines, handlines, or tag lines must be used when conditions warrant their use.

LIMBING AND BUCKING

1. Observe all safety precautions.

2. Use both hands. Keep a firm grip.

3. When it is possible to do so, the tree worker must work on the side opposite the side on which the limb is being cut.

4. Branches bent under tension must be considered hazardous.

COLD WEATHER OPERATION

- If the pole chain saw is to be used during cold weather, preheat the hydraulic fluid at low engine speed. When using the normally recommended fluids, fluid should be at or above 50° F/10° C (400 ssu/82 centistokes) before use.

Damage to the hydraulic system or pole chain saw can result from use with fluid that is too viscous or thick.

- Cutting frozen wood causes the cutters to wear, crack and break at the back rivet hole unless proper precautions are taken. To extend chain life when cutting in cold weather:

a. Be sure the automatic oiler is working.

b. Keep the chain tensioned and check often.

c. Keep the cutters properly sharpened. Touch up at least every hour. Never force a dull chain to cut.

d. Clean out the bar groove and keep the oil hole open. Turn the bar over to equalize wear on the rails.

e. Always install a new sprocket with a new chain.

SERVICE INSTRUCTIONS

Good maintenance practices will keep the pole chain saw on the job and increase its service life.

A very important maintenance practice is to keep the hydraulic fluid clean at all times. Contaminated hydraulic fluid causes rapid wear and/or failure of internal parts.

Follow the procedures contained in the HYDRAULIC SYSTEM REQUIREMENTS section of this manual to ensure peak performance from the tool.

Never disassemble the pole chain saw unless proper troubleshooting procedures have isolated the problem to an internal part. Then, only disassemble it to the extent necessary to replace the defective part. KEEP CONTAMINANTS SUCH AS DIRT AND GRIT AWAY FROM INTERNAL PARTS AT ALL TIMES.

Always determine and correct the cause of the problem prior to reassembly. Further wear and tool failure can result if the original cause is not corrected.

CIRCUIT CONFIGURATION

The CS23/26 is available in three models: open center (o.c.), closed center (c.c.) and dual spool (o.c./c.c.). The o.c. and c.c. models are designed to operate specifically on open- or closed-center circuits only. The dual-spool model incorporates both o.c. and c.c. operation in the same pole chain saw.

1. Models built for c.c. operation can be identified by the close center sticker on the pole chain saw. Tools without a "Closed-Center" sticker are open center.

2. Dual-spool models can be identified by the selector screw located in the end of the valve spool assembly.

After identifying the pole chain saw configuration, proceed to the applicable procedure in this section.

PRIOR TO DISASSEMBLY

- Clean the exterior of the tool.
- Obtain Seal Kit (Part Number 02043) or (Part Number 21053) for o.c./c.c. models to replace all seals exposed during disassembly. Note the orientation of seals before removing them. Install new seals in the same position as original seals.

Note: For orientation of the parts identified in the following procedures, refer to the parts location illustrations contained at the back of this manual.

MOTOR DISASSEMBLY

1. Remove saw bar, saw chain and lube bar assembly per instructions contained in AUTOMATIC OILER ADJUSTMENT, steps 1, 2 and 3.

2. Remove motor shaft nut, washer and sprocket.

3. Remove the three hex socket button head screws and lockwashers securing the saw housing to outer tube assembly and pull apart. DO NOT TWIST.

4. If the oil tubes remain with motor assembly, remove and set them aside.

5. Remove four hex socket flat head screws securing the saw housing to motor and then slide the motor out.

6. Scribe marks across the grooves around motor to indicate the same position for assembly.

7. Remove the six capscrews securing the rear bearing retainer to the gear chamber. Pry the rear bearing retainer from the gear chamber, being careful to lift the rear bearing retainer straight off. Use the wide groove for prying, so as not to scratch or mar the surface between parts.

8. To separate the gear chamber from the front bearing retainer, pry apart using the groove as above.

9. Remove the gears, key and idler shaft. Remove both o-rings using a dull tool. Avoid cutting into the o-rings or scratching smooth surfaces.

10. Remove the large retaining ring securing the ball bearing to remove the shaft and bearings from the front bearing retainer. Support the front bearing retainer around the large ball bearing hole and on the small diameter shaft end (carefully avoiding bending the shaft or loading the bearing) until the shaft (with ball bearing) is removed.

11. Remove the ball bearings from the shaft only if they must be replaced, as they will be destroyed by removal. To remove the bearings from the shaft, remove the small retaining ring on the shaft. Support the bearing around the shaft flange and press on the large diameter end of the shaft until free. Discard the ball bearings.

12. Remove the seal liner retaining ring. Reinsert the small diameter of the shaft through the front end of the front bearing retainer through the washer and part way into the seal liner. With a cloth on the shop air nozzle, place the nozzle against the bushing and blow the seal parts onto the shaft and out of the front retainer.

13. Inspect all parts. If the shaft is worn at the bearing surfaces of the small shaft diameter, the shaft and bushings must be replaced.

14. Inspect all four bushings. (When ordered as replacement parts, the front and rear bearing retainers include the bushings.)

15. Check the quad ring for wear or nicks. Check the seal liner for wear (especially within the inner ring cavity), and make sure the liner is free of cracks, however slight. Spin the ball bearings on the shaft and check for smooth running. Replace defective parts.

VALVE DISASSEMBLY

1. Remove two hex socket flat head screws securing the tube connector to the valve assembly and then slide apart.

2. Pull the oil tubes out of the valve assembly.

3. Remove the on-off valve spool screw.

4. Remove two flat head screws from the trigger guard.

5. Pull the entire trigger and spool assembly from the spool bore.

6. Drive two roll pins out of the trigger guard and then remove the valve spool and trigger.

O.C./C.C. VALVE DISASSEMBLY (DUAL SPOOL ONLY)

1. Turn the selector screw fully clockwise.

2. Drive out the roll pin located at the front of the trigger guard.

3. Remove the two 1/4-20 NC x 3/4 hex socket flat head screws securing the trigger guard to the valve handle assembly.

4. Drive out the roll pin securing the trigger and spring to the valve handle assembly.

5. From the trigger end, push the on/off spool assembly out of the valve handle assembly.

6. Remove the o-ring from inside the valve handle assembly.

7. Remove the o-ring from the outside of the on/off spool assembly.

8. Remove the retaining ring securing the selector screw to the on/off spool assembly.

9. Turn the selector screw counterclockwise until it is free from the on/off valve spool assembly.

10. Remove the selector screw o-ring.

PRIOR TO ASSEMBLY

- Clean all parts with a degreasing solvent.
- Make sure all seals that were exposed during disassembly have been replaced with new parts.
- Apply clean grease or o-ring lubricant to all parts during assembly.

Note: For orientation of parts identified in the following procedures, see the parts location illustrations at the back of this manual.

MOTOR ASSEMBLY

1. Fit the o-ring in the groove around the seal liner. Place the seal parts on the shaft in the following order: washer, seal liner with o-ring (cavity for the inner quad ring last), quad ring and seal washer.

2. Install the shaft (with seal parts) into the front bearing retainer (with the bushings) by pushing on the washer while the end of the shaft is just in the bearing. Make sure the seal is completely in place and then remove the shaft. Install the retaining ring.

Note: The graphite seal liner in the older motors is replaced with a bronze seal liner included in the seal kit.

3. If the ball bearings are being replaced, place the shaft in a press with support under the large shoulder. Lubricate the shaft and the bearing bores and then press the bearings on (one at a time) with a sleeve to press on the inner race only. Install the retaining ring.

4. Place the front bearing retainer with the large hole up on a smooth clean surface under the press with a clearance hole for the shaft. Insert the shaft with the bearing into the front retainer until the press is required to insert. Use a sleeve of slightly smaller diameter than the outside of the bearing to press on the outer bearing race only until the main shaft and bearings are in place. Install the retaining ring.

5. Install the key and the gear on the shaft.

6. Place a greased o-ring in the groove of the front bearing retainer. Note the scribe marks for alignment of the gear chamber and carefully place the gear chamber over the drive gear and down against the front bearing retainer with the dowel pin aligned. Do not force or tilt as gear chamber damage will result.

7. Install the idler shaft and the gear.

8. Place the greased o-ring in the groove of the rear bearing retainer, align with the scribe marks, and assemble over the shafts and dowel pins against the gear chamber.

9. Manually turn the main shaft to assure free rotation. Install the motor capscrews and check for free shaft turn.

10. Connect to the hydraulic power supply and check for smooth running. When replacing the front bearing retainer, rear bearing retainer, or gear chamber, the motor will sometimes be tight and require break in. (Refer to Motor Break-In procedures below.)

VALVE ASSEMBLY

1. Slide valve into bore (from the side opposite the trigger) with a twisting motion to avoid damaging o-rings, then secure with the spool screw.

2. Place spring on valve spool.

3. Assemble the spool, trigger and guard with the roll pins.

4. Install two flat head screws to secure the guard to valve assembly.

5. Replace the screw spool.

O.C./C.C. VALVE ASSEMBLY (DUAL SPOOL ONLY)

1. Replace the selector screw o-ring.

2. Install the selector screw by turning it fully clockwise into the on/off valve spool assembly.

3. Replace the retaining ring to secure the selector screw to the on/off valve spool assembly.

4. Replace the o-ring on the on/off valve spool assembly.

5. Replace the o-ring inside the valve handle assembly.

6. Carefully insert the on/off spool assembly into the valve handle assembly.

7. Install the spring and trigger onto the on/off spool assembly. Secure using the roll pin.

8. Secure the trigger guard to the valve handle assembly using two 1/4-20 NC x 3/4 hex socket flat head screw and the remaining rod pin.

SAW HOUSING, OIL TUBES, OUTER TUBE ASSEMBLY AND MOTOR ASSEMBLY

1. Slide the motor assembly into the saw housing and then install the four flat head screws.

2. Lubricate both ends of oil tube assemblies and then install the motor as follows:

   a. With the motor shaft pointing to the right, install the oil tube marked with red into the top oil tube port in the motor. This is the pressure port. Insert the short metal end of the oil tube into the motor.

   b. Install the second oil tube.

3. Install the oil tube through the outer tube assembly and then secure to the saw housing with the three hex socket button head screws and lockwashers.

4. With motor shaft pointing to the right, install the valve assembly into the outer tube connector, making sure the red marked oil tube is inserted into the oil tube port in the valve handle farthest away from the trigger. The motor shaft should point to the right of the valve assembly with the trigger facing down. Secure the motor with two hex socket flat head screws.

OILER BAR, SAW BAR AND SAW CHAIN ASSEMBLY

1. Install a 1/2-inch O.D. o-ring in the face of the motor.

2. Install a 1/4-inch O.D. o-ring over the small brass tube on the lube bar assembly.

3. Install the lube bar assembly on the face of the motor and secure it with the flat head screw.

4. Install a sprocket and washer and secure it with the motor shaft nut.

5. Install the saw bar and the saw chain, aligning them with the bar adjusting nut. Secure loosely with two saw bar washers and nuts.

MOTOR BREAK-IN

⚠ WARNING

The following step can be hazardous. Failure to heed the instructions could result in serious injury.

1. Connect the pole chain saw to a hydraulic power source to check for proper operation. When new parts are installed it might be necessary to perform a break-in procedure on the motor. READ THE FOLLOWING CAREFULLY BEFORE PROCEEDING.

a. Make sure the hydraulic power source is running at the lowest gpm/lpm rate it can while still producing full pressure.

b. Remove the bar and chain, secure the pole shain saw firmly in a bench vise and then place the correct size wrench on the 1/2-20 nut securing the sprocket adapter.

c. Connect the hydraulic power source to the pole chain saw and turn the power source valve to the "ON" position.

d. With a firm grip on the pole chain saw and wrench, SLOWLY squeeze the trigger to activate the saw.

e. Turn the motor shaft both against and with the direction of rotation.

f. Release the trigger and remove the wrench.

g. Activate the pole chain saw to determine that the motor starts and runs freely.

h. If the motor has not started or does not run freely, carefully repeat steps **c** through **g**. If the motor still does not start or run freely, chances are the pole chain saw has been incorrectly assembled. Refer to the illustrated parts list and then repeat all assembly procedures.

MAINTENANCE AND ADJUSTMENTS

GENERAL MAINTENANCE TIPS

There are many simple maintenance tasks which, if performed, can keep a pole chain saw operating at a high level of efficiency. Routine maintenance also keeps replacement costs down on the parts of the pole chain saw which occasionally wear out.

Bar Groove Wear

The wear pattern of the bottoms of the chain cutters, tie straps and drive links is a good indication of the condition of the saw bar.

1. If the bottoms of the drive links are worn flat, the groove is too shallow in the tail or flat section of the bar. The groove must be ground deeper by an authorized chain saw dealer or the saw bar replaced.

2. If the drive links are worn concave, the groove is shallow in the saw bar nose. It is possible that the

armor-tip of the saw bar nose has worn off. The groove should be rebuilt, reground or the saw bar replaced.

In summary, the groove width should not allow the chain to wobble from side to side when moved with fingers. Groove depth should range between 5/16-inch/8 mm to a maximum of 7/16-inch/11 mm.

Saw Bar Rail Wear

A quick check can be made to determine rail wear. Put a straight edge against the saw bar and the cutting edge (figure 3). Force the cutter sideways as far as it will go with the straight edge. There should be 1/16- to 1/8-inch/1.5 to 3 mm gap between the straight edge and the side of the saw bar. The chain should be supported squarely by the bar rails. If not, the saw bar is worn and the groove is sloppy. Authorized chain saw dealers have equipment to close the rails.

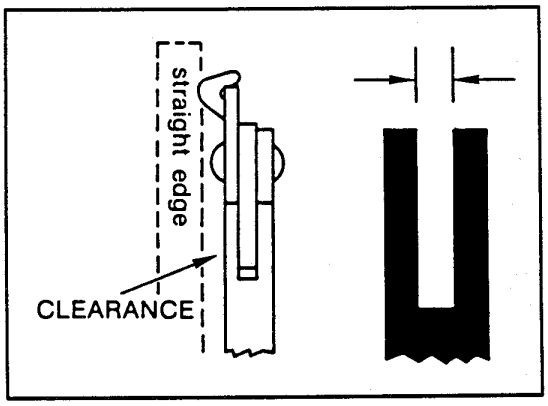


Figure 3. Rail Wear.

If the pole chain saw is used frequently, check the saw bar for flat and even rails. Rails must be flat and square with side of saw bar and the saw bar itself must be perfectly straight. If bows or bends are present in the saw bar, a dealer should attempt to remove them.

If the saw bar rails are uneven (stepped), the chain is leading off the cutter. The rails should be reground by an authorized dealer.

Chain Lubrication

Soak a new chain overnight in SAE 30 oil.

Before cutting, check to make sure that oil is being thrown from the nose of the saw bar.

Chain Tension

Correct chain tension is very important throughout the life of the chain. Check chain tension often during use (when the pole chain saw is stopped and the saw bar and chain are cool). The chain should move easily around the saw bar when pulled by hand. Watch tension and lubrication during prolonged cutting periods.

AUTOMATIC OILER ADJUSTMENT

1. Observe all safety precautions.

2. The automatic oiler adjustment plug is located behind the lube bar and in front of the bearing assembly. The oil volume can be adjusted with a 3/16-inch allen wrench by turning the plug counterclockwise to increase output and turning clockwise to decrease output.

Note: Oil output varies proportionally to load and operating pressure. It should be adequate for most operations as adjusted at the factory.

3. Initial oiler adjustment is made with the saw bar, chain and lube bar removed.

⚠ WARNING

The following step can be hazardous. Failure to heed the instructions could result in serious injury.

4. Connect the pole chain saw to a hydraulic power source and check for proper operation. READ THE FOLLOWING CAREFULLY BEFORE PROCEEDING.

a. Make sure the hydraulic power source is running at the lowest gpm/lpm rate it can while still producing full pressure.

b. Secure the pole chain saw firmly in a bench vise and place the correct size wrench on the 1/2-20 nut securing the sprocket.

c. Connect the hydraulic power source to the pole chain saw and turn the circuit control valve to the "ON" position.

d. With a firm grip on the pole chain saw and wrench, SLOWLY squeeze the trigger to activate it.

e. Adjust the oiler for a flow of approximately one drop every one to two seconds.

f. Release the trigger and remove the wrench.

CHAIN TENSION ADJUSTMENT

1. Observe all safety precautions.

2. When the chain appears loose, lubricate it well and let it cool for a few minutes to allow for contraction of the chain. Disconnect the pole chain saw from its hydraulic power source.

Note: Perform steps 3 through 6 while holding the top end of the saw bar upward.

3. Loosen the two saw bar nuts slightly.

4. Tighten the chain tension screw until the bottoms of the tie straps and cutters just touch the saw bar rails of the bottom of the saw bar.

5. Pull the chain around the saw bar by hand to be sure it fits the sprocket and saw bar properly. The chain should move easily.

6. Hold the saw bar tip up as you tighten the two saw bar nuts.

7. Connect the pole chain saw to a hydraulic power source. Operate the chain at low speed (gpm) for a minute or two while pumping extra oil on the chain.

8. Stop the pole chain saw and check the tension. If it has loosened, disconnect the pole chain saw from the hydraulic power source and perform steps 3 through 6 again to tighten the chain to the correct tension.

9. Reconnect the pole chain saw to the hydraulic power source. Operate the saw and make a few easy cuts. Check chain tension and readjust if necessary (disconnect it from the hydraulic power source and perform steps 3 through 6).

Note: Never break in a new chain under a heavy cutting load.

10. Watch the chain tension carefully for the first half-hour of cutting.

SETTING THE DEPTH GAUGES (FIGURE 4)

1. Observe all safety precautions.

2. Place the OREGON Gaugit, OREGON part number 22290, on the chain after every third or fourth sharpening. If the depth gauges extend above the slot, file them level with a flat file. Depth gauge setting is 0.025-inch.

3. After lowering, round off the front edge to its original shape.

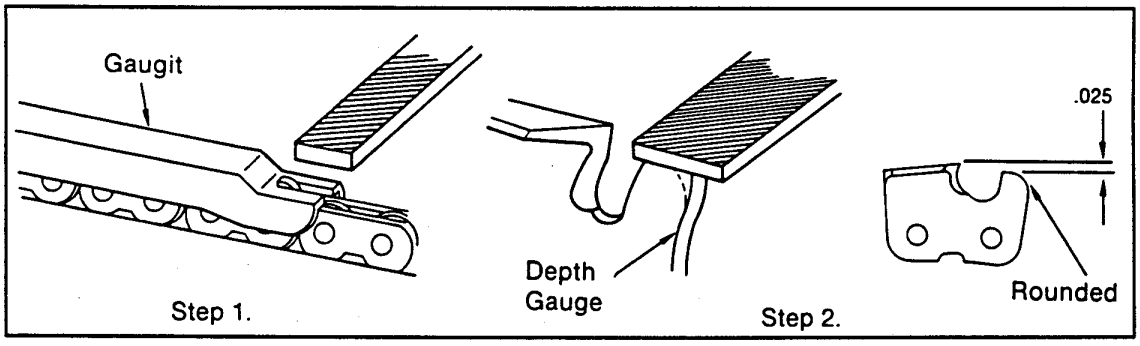


Figure 4. Setting Depth Gauge.

CHAIN SHARPENING (FIGURE 5)

OREGON 72LG/72LP (3/8 PITCH) CHAIN

Note: The chain type is stamped on the drive link.

1. Observe all safety precautions.

2. Use OREGON file holder and the proper round file for the chain to be sharpened (see ACCESSORIES). Press the file holder so it rides on both the cutter top plate and depth gauge with the guide marks in line with the length of the chain.

3. File all of the cutters on the side of the chain opposite yourself in the direction shown.

4. Hold the file level as you make a few firm strokes away from yourself while applying pressure against the cutting edge.

Note: 3/8-inch pitch chain sharpening angles have been changed for increased performance.

5. Move to the other side of the chain and file all of the cutters opposite to complete chain sharpening. File all of the cutters uniformly.

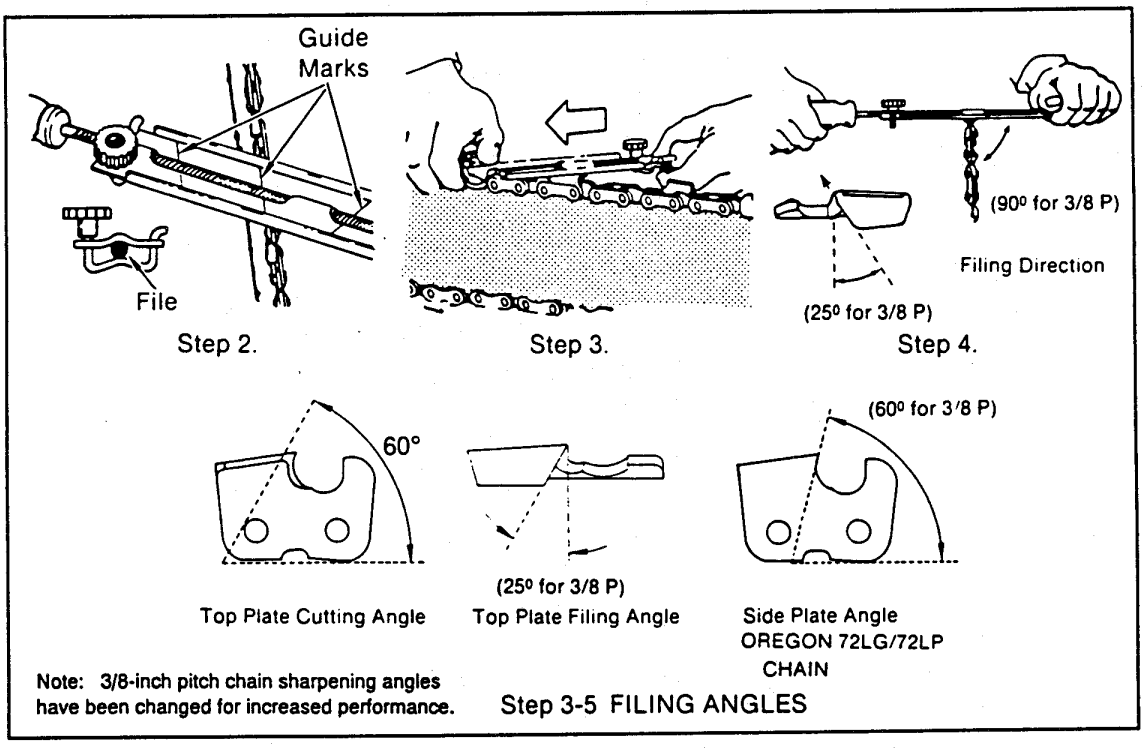


Figure 5. Chain Sharpening.

TROUBLESHOOTING

If symptoms of poor performance develop, the following chart can be used as a guide to correct the problem.

When diagnosing faults in operation of the pole chain saw, always make sure the hydraulic power source is supplying the coorect hydraulic flow and pressure to the pole chain saw as listed in the table. Use a flowmeter known to be accurate. Check the flow with the hydraulic fluid temperature at least 80°F/27°C.

PROBLEM	CAUSE	REMEDY
Cuts slow.	Insufficient fluid flow or low relief valve setting.	Adjust fluid flow to proper gpm. For optimum performance adjust relief valve to 2250 psi/155 bar.
	Chain dull.	Sharpen per instructions or replace.
	Backpressure too high.	Should not exeed 250 psi/17 bar at rated flow measured at the end of the tool operating hoses.
Bar turns color.	Insufficient oiler flow.	Adjust oiler per service instructions.
Tool does not run.	Power unit not functioning.	Check power unit for propeer flow and pressure 3 gpm/15 lpm at 1500 psi/104 bar minimum for CS26, 7 gpm/26 lpm at 1000 psi/70 bar minimum for CS23.
	Coupler or hoses blocked.	Remove obstruction.
	Mechanical failure.	Disassemble tool and inspect for damage.
Tool runs backwards.	Pressure and return reversed.	Connect for proper flow direction. Motor shaft rotates clockwise.
On-off trigger is hard to press.	Pressure and return reversed.	Correct for proper flow direction.
	Backpressure too high.	Should not exceed 250 psi/17 bar at rated flow measured at the end of the tool operating hoses.
Oil leakage around drive sprocket.	Motor shaft seal failure.	Replace as required. Make sure that oil present is not the result of exess oiler flow.
Motor sections oil leakage.	Motor face seal failure.	Replace as required.

SPECIFICATIONS

Capacity	CS23 12-, 15- and 18-inch/30, 38 and 46 cm overall saw bar lengths
	CS26 12-inch/30 cm over all saw bar length
Weight	9 lb/4 kg
Length	74-inch/188 cm
Pressure	CS23 1000-2000 psi/70-140 bar
	CS26 1500-2000 psi/105/140 bar
Flow Range	CS23 7-9 gpm/26-34 lpm
	CS26 3-5 gpm/11-19 lpm
Optimum Flow	CS23 8 gpm/30 lpm
	CS26 5 gpm/19 lpm
Porting	3/8-inch NPT
Connect Size and Type	3/8-inch NPT in handle
	Dual Spool Model ..... -8 SAE straight thread o-ring
Hose Whips	No
Motor	CS23 02978
	CS26 03396

NOTE

Weights, dimensions and operating specifications listed are subject to change without notice. Where specifications are critical to your application, please consult the factory.

ACCESSORIES

PART NO.	DESCRIPTION
00040	12-inch/30 cm Saw Bar
00156	15-inch/38 cm Saw Bar
01825	18-inch/46 cm Saw Bar
05096	Saw Holster
02036	Saw Chain for 12-inch/30 cm Bar 72LP(41 Drive Links)
02037	Saw Chain for 15-inch/38 cm Bar 72LP(49 Drive Links)
01826	Saw Chain for 18-inch/46 cm Bar 72LP(60 Drive Links)
00928	Sprocket
05132	Grease Gun for Roller & Sprocket Nose Bars
05144	Chain Guard for 18-inch/46 cm Bar Length
11299	File Guides with 7/32 File-72G/72LP Chain (3/8 pitch)

WARRANTY

Hand held tools and their parts are warranted against defects in materials and workmanship for a period of 12 months from the date of purchase, except for cutting parts, steels and other parts not manufactured by Stanley (such as impact mechanisms, alternators, regulators and hoses), and parts subject to normal wear and tear (such as o-rings, saw blades, and other parts that become worn through normal use of the tool).

The Warranty Registration Card packed with the tool must be filled out and returned to Stanley upon receipt of the tool.

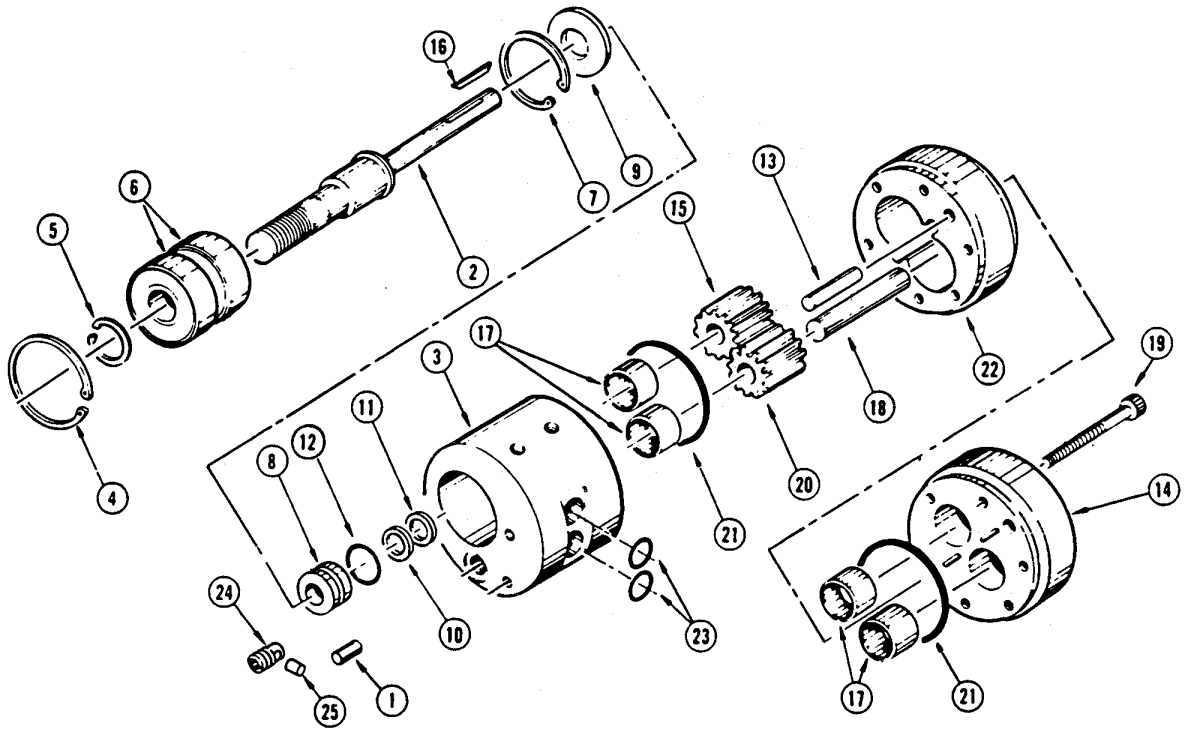
Stanley reserves the right to replace or repair only those parts which, under our examination, prove to have been defective at the time of purchase.

Shipping charges are prepaid by the customer unless otherwise authorized by Stanley.

The warranty is void if maximum flow and pressure ratings are exceeded.

There is no other warranty expressed or implied.

HYDRAULIC MOTOR ASSEMBLY



Item No.	Part No. Motor 02978	Part No. Motor 03396	Qty.	Part Name
	CS23	CS26		
1	00642	00642	1	Dowel Pin, 3/16 x 1/2
2	00424	00397	1	Motor Shaft
3	03406	03406	1	Front Bearing Retainer (Incl., Item 17)
4	00118	00118	1	Retaining Ring, Int. 1-1/4
5	00008	00008	1	Retaining Ring, Ext. 19/32
6	00007	00007	2	Bearing
7	00011	00011	1	Retaining Ring, Int. 1.023
8	00015	00015	1	Seal Liner ⊙
9	02556	02556	1	Washer
10	00014	00014	1	Quad Ring, 1/16 x 11/16 I.D.
11	00655	00655	1	Washer ⊙
12	00016	00016	1	O-Ring, 9/16 x 11/16 x 1/16 ⊙
13	00061	00024	2	Dowel Pin, 3/16 x 1-1/4

Item No.	Part No. Motor 02978	Part No. Motor 03396	Qty.	Part Name
	CS23	CS26		
14	03399	03399	1	Rear Bearing Retainer (Incl. Item 17)
15	00763	00764	1	Gear
16	00987	00986	1	Key
17	05458	05458	4	Bushing Assy
18	00060	00022	1	Idler Shaft
19	00025		6	Capscrew, 10-24 x 13/4HSH
		00111	6	Capscrew, 10-24 x 11/2HSH
20	00475	00023	1	Idler Gear
21	00020	00020	2	O-Ring, 1/16 x 1-11/16 I.D. (90 D) ⊙
22	00454	00021	1	Gear Chamber
23	16668	16668	2	O-Ring, 1/16 x 7/16 I.D. (90 D) ⊙
24	06821	06821	1	Lube Screw
25	00634	00634	1	Nylon Lock

NOTE: Use Part name and Part Number when ordering.
⊙ Denotes Part in Seal Kit.

CS23/26 USA MODEL

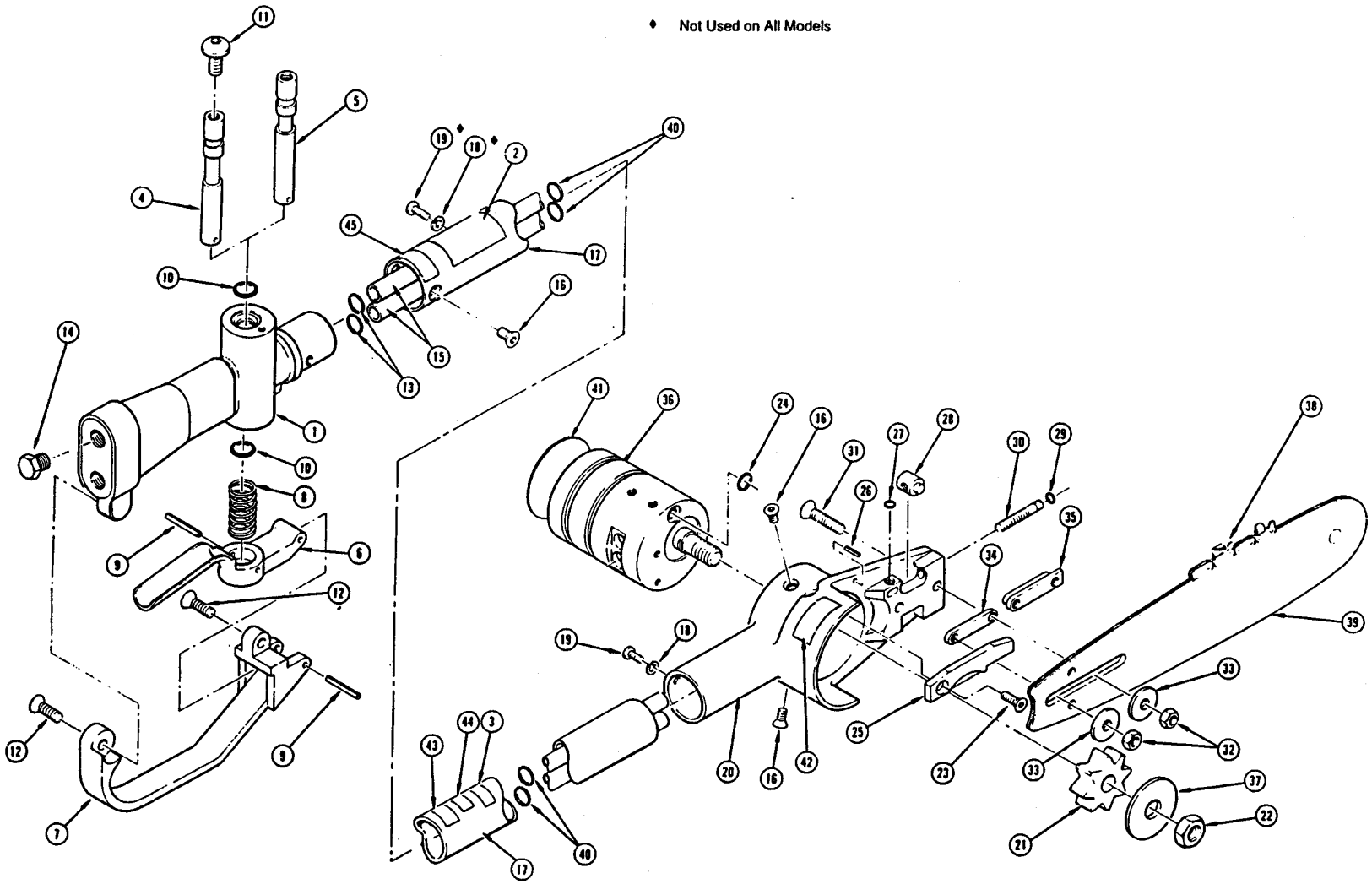
NOTE:

- Outer Tube Assembly 11025 replaces both Outer Tube Assembly 00041 and Outer Tube Assembly 00122.
- Use Part Name and Part Number when ordering

⊙ Denotes Part in Seal Kit

* Not Available on CS26

♦ Not Used on All Models



SEAL KIT DATA

Part No.	Qty.	Description
Seal Kit Part No. 02043		
00012	1	O-Ring
00014	1	Quad Ring
00015	1	Seal Liner
00016	1	O-Ring
00020	2	O-Ring
00026	1	O-Ring
04911	2	O-Ring
00055	1	O-Ring
00107	1	O-Ring
00655	1	Seal Liner Washer
16668	4	O-Ring

PARTS LIST

Item No.	Part No.	Qty.	Description
	01728	1	Valve Assembly, O.C. (Incl. items 1, 4 thru13
	01729	1	Valve Assembly, C.C. (Incl. items 1, 4 thru13
1	01986	1	Valve Handle Assembly
2	12412	1	Danger Sticker
3	15863	1	Decal, Warning
4	01716	1	Spool, O.C.
5	01717	1	Spool, C.C.
6	01718	1	Trigger
7	01715	1	Guard
8	16566	1	Spring
9	01534	2	Roll Pin, 1/8 x 1-1/4
10	04911	2	O-Ring, 1/2 x 5/8 x 1/6 (90 D) ⊙
11	01812	1	Screw
12	16307	2	Screw, 1/4-20 x 3/4 Hex Soc Flt Hd
13	16668	2	O-Ring, 7/16 x 9/16 x 1/16 (90 D)
14	06343	2	Plastic Plug
15	00042	2	Oil Tube Assembly (Epoxy)
16	16305	6	Screw, 1/4-20 x 3/8 Hex Soc Flt Hd
17	11025	1	Outer Tube Assembly (Epoxy)
18	00032	3	Lockwasher, #10 ♦
19	16306	3	Screw, 10-24 x 1/2 Hex Soc But. Hd ♦
20	00241	1	Saw Housing
21	00928	1	Sprocket
22	00453	1	Motor Shaft Nut
23	00102	1	Screw, 10-24 x 1/2 Soc Flt Hd
24	00055	1	O-Ring 1/16 x 3/8 I.D. (90 D) ⊙
25	00003	1	Lube Bar Assembly
26	00072	1	Roll Pin, 1/8 x 3/8
27	00107	1	O-Ring, 1/16 x 1/8 I.D. ⊙
28	00030	1	Adjusting Nut
29	00026	1	O-Ring, 1/16 x 3/16 I.D. ⊙
30	00031	1	Adjusting Screw
31	00035	2	Screw, 1/4-20 x 1-1/4 Soc Flt Hd
32	00038	2	Saw Bar Nut
33	00037	2	Saw Bar Washer
34	00036	1	Saw Bar Key, (12-15-inch Bar)
35	01827	1	Saw Bar Key, (18-inch Bar) ✻
36	02978	1	Motor Assembly (CS23 only)
	03396	1	Motor Assembly (CS26 only)
37	05468	1	Washer
38	01826	1	Saw Chain (18-inch 72 LP) ✻ 60 DL
	02036	1	Saw Chain (12-inch 72 LP) 41 DL
	02037	1	Saw Chain (15-inch 72 LP) 49 DL
39	01825	1	Saw Bar (18-inch) ✻
	00040	1	Saw Bar (12-inch)
	00156	1	Saw Bar (15-inch)
40	00360	4	O-Ring, 7/16 x 5/8 x 3/32
41	02728	1	Name Tag (CS23 only)
	03771	1	Name Tag (CS26 only)
42	04746	1	Automatic Oiler Sticker
43	03786	1	GPM Sticker (CS23 only)
	03781	1	GPM Sticker (CS26 only)
44	05153	1	Stanley Sticker
45	03693	1	C.C. Sticker

CS23/26 DUAL SPOOL MODELS

NOTE:

- Outer Tube Assembly 11025 replaces both Outer Tube Assembly 00041 and Outer Tube Assembly 00122.
- Use Part Number and Part Name when ordering.

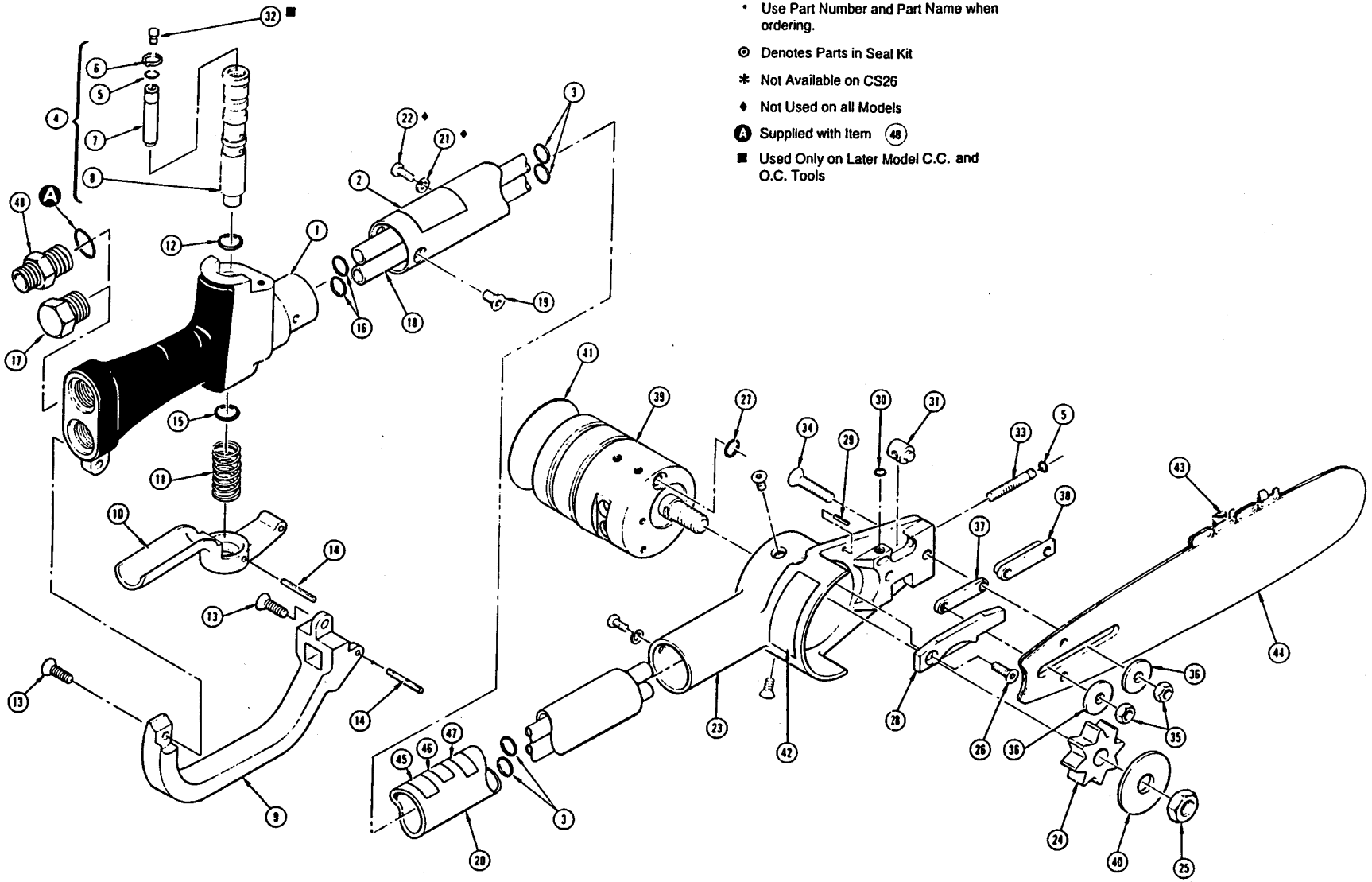
⊙ Denotes Parts in Seal Kit

✱ Not Available on CS26

♦ Not Used on all Models

Ⓐ Supplied with Item (48)

■ Used Only on Later Model C.C. and O.C. Tools



SEAL KIT DATA

Part No.	Qty.	Description
Seal Kit Part No. 21053		
00014	1	Quad Ring
00016	1	O-Ring
16668	2	O-Ring
00020	2	O-Ring
00026	2	O-Ring
00055	1	O-Ring
00107	1	O-Ring
01605	2	O-Ring Ⓐ
07626	1	O-Ring
07627	1	O-Ring
16668	2	O-Ring
00360	4	O-Ring

PARTS LIST

Item No.	Part No.	Qty.	Description
	19869	1	**Valve Assembly,** (Incl. items 1,4 thru 16
1	19870	1	**Valve Handle Assembly**
2	12412	1	Danger Sticker
3	00360	4	O-Ring, 7/16 x 5/8 x 3/32
4	19873	1	**Valve Spool Assembly** (Incl. items 4 thru 7)
5	00026	1	O-Ring, 3/16 x 5/16 x 1/16 -008 R16
6	16070	1	Retaining Ring
7	19875	1	Selector Screw
8	19874	1	Valve Spool
9	19877	1	Trigger Guard
10	19879	1	Trigger
11	19868	1	Spring
12	07626	1	O-Ring, 1/2 x 5/8 x 1/16 R24 ⊙
13	16307	2	Capscrew, 1/4-20 NC x 3/4 Hex Sco Flt Hd
14	01534	2	Roll Pin, 1/8 x 1 1/4
15	07627	1	O-Ring, 5/8 x 3/4 x 1/16 -016 R24 ⊙
16	16668	2	O-Ring, 7/16 x 9\16 x 1/16 -013 R25 ⊙
17	06343	2	Plastic Plug
18	00042	2	Oil Tube Assembly (Epoxy)
19	02487	6	Screw, 1/4-20 x 3/8 Flt Hd Hex
20	11025	1	Outer Tube Assembly (Epoxy)
21	00032	3	Lockwasher, #10 ♦
22	16306	3	Screw, 10-24 x 1/2 Hex Soc But. Hd ♦
23	00241	1	Saw Housing
24	00928	1	Sprocket
25	00453	1	Motor Shaft Nut
26	00102	1	Screw, 10-24 x 1/2 Soc Flt Hd
27	00055	1	O-Ring, 1/16 x 3/8 I.D. (90D) ⊙
28	00003	1	Lube Bar Assembly
29	00072	1	Roll Pin, 1/8 x 3/8
30	00107	1	O-Ring, 1/16 x 1/8 I.D. ⊙
31	00030	1	Adjusting Ring
32	22807	1	Plug ■
33	00031	1	Adjusting Screw
34	00035	2	Screw, 1/4-20 x 1 1/4 Soc Flt Hd
35	00038	2	Saw Bar Nut
36	00037	2	Saw Bar Washer
37	00036	1	Saw Bar Key (12-15 inch Bar)
38	01827	1	Saw Bar Key (18 inch Bar) ✻
39	02978	1	Motor Assembly (CS23 only)
	03396	1	Motor Assembly (CS26 only)
40	05468	1	Washer
41	02728	1	Name Tag (CS23 only)
	03771	1	Name Tag (CS26 only)
42	04746	1	Automatic Oiler Sticker
43	02036	1	Saw Chain (12-inch 72 LP) 41 DL
	02037	1	Saw Chain (15-inch 72 LP) 49 DL
	01826	1	Saw Chain (18-inch 72 LP) ✻ 60 DL
44	00040	1	Saw Bar (12-inch)
	00156	1	Saw Bar (15-inch)
	01825	1	Saw Bar (18-inch) ✻
45	03786	1	GPM Sticker (CS23 only)
	03781	1	GPM Sticker (CS26 only)
46	05153	1	Stanley Sticker
47	15863	1	Decal, Danger
48	00936	2	Fitting, 1/2 SAE to 3/8 NPT Male
	15875	1	Tool Operator Tag (Not Shown)

CS23/26 U.K. AND EUROPEAN MODELS

NOTE:

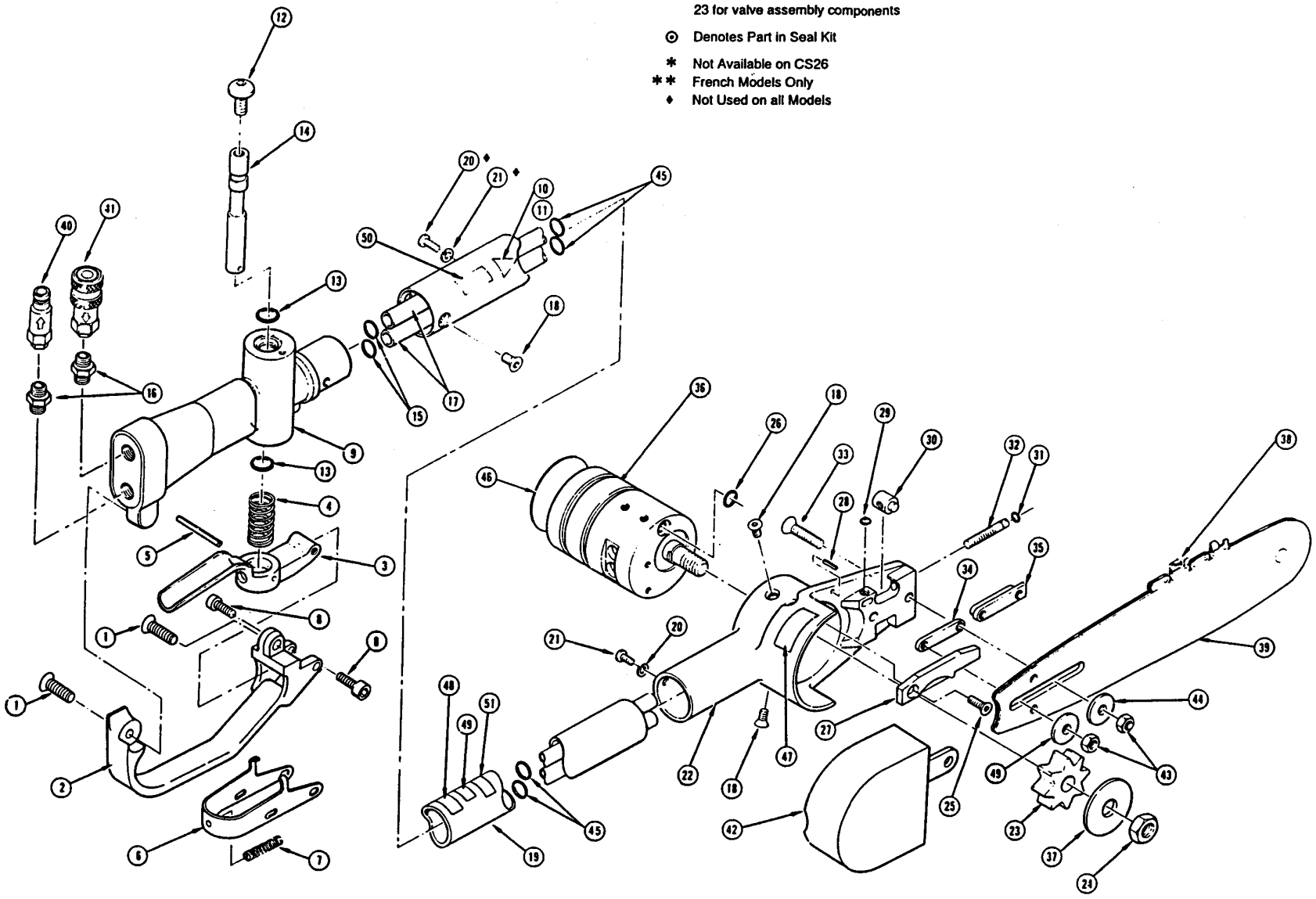
- Outer Tube Assembly 11025 replaces both Outer Tube Assembly 00041 and Outer Tube Assembly 00122.
- Use Part Name and Part Number when ordering
- For units without trigger lock, refer to page 23 for valve assembly components

⊙ Denotes Part in Seal Kit

* Not Available on CS26

** French Models Only

♦ Not Used on all Models



SEAL KIT DATA

Part No.	Qty.	Description
Seal Kit Part No. 02043		
00012	1	O-Ring
00014	1	Quad Ring
00015	1	Seal Liner
00016	1	O-Ring
00020	2	O-Ring
00026	1	O-Ring
04911	2	O-Ring
00055	1	O-Ring
00107	1	O-Ring
00655	1	Seal Liner Washer
16668	4	O-Ring

PARTS LIST

Item No.	Part No.	Qty.	Description
	14076	1	**Valve Assembly** UK Version with Trigger Lock (Includes Items 1 thru 9 & 12 thru 15) ✱
1	16307	2	Screw, 1/4 x 3/4 Hex Soc Flt Hd
2	14071	1	Trigger Guard
3	14074	1	Trigger
4	16556	1	Spring
5	14075	1	Roll Pin, 1/8 x 1-1/2
6	14073	1	Trigger Lock
7	14072	1	Spring
8	00296	2	Capscrew, 10-24 x 5/8 Hex Soc Hd
9	01986	1	**Valve Handle Assembly**
10	11207	1	Circuit Type-D Sticker (CS23 only)
11	11206	1	Circuit Type-C Sticker (CS26 only)
12	01812	1	Screw
13	04911	2	O-Ring, 1/2 x 5/8 x 1/16 (90 D) ⊙
14	01716	1	Spool
15	16668	2	O-Ring, 7/16 x 9/16 x 1/16 (90 D)
16	03044	2	Hex Nipple
17	00042	2	Oil Tube Assembly (Epoxy)
18	16305	6	Screw, 1/4-20 x 3/8 Hex Soc Flt Hd
19	11025	1	Outer Tube Assembly (Epoxy)
20	16306	3	Screw, 10-24 x 1/2 Hex Soc But. Hd ♦
21	00032	3	Lockwasher, #10 ♦
22	00241	1	Saw Housing
23	00928	1	Sprocket
24	00453	1	Motor Shaft Nut
25	00102	1	Screw, 10-24 x 1/2 Soc Flt Hd
26	00055	1	O-Ring, 1/16 x 3/8 I.D. (90 D) ⊙
27	00003	1	Lube Bar Assembly
28	00072	1	Roll Pin, 1/8 x 3/8
29	00107	1	O-Ring, 1/16 x 1/8 I.D. ⊙
30	00030	1	Adjusting Nut
31	00026	1	O-Ring, 1/16 x 3/16 I.D. ⊙
32	00031	1	Adjusting Screw
33	00035	2	Screw, 1/4-20 x 1-1/4 Soc Flt Hd
34	00036	1	Saw Bar Key (12-15-inch Bar)
35	01827	1	Saw Bar Key (18-inch Saw Bar) ✱
36	02978	1	Motor Assembly (CS23 only)
	03396	1	Motor Assembly (CS26 only)
37	05468	1	Washer
38	02037	1	Saw Chain (15-inch 72 LP) 49 DL
	01826	1	Saw Chain (18-inch 72 LP) ✱ 60 DL
	02036	1	Saw Chain (12-inch 72 LP) 41 DL
39	00156	1	Saw Bar (15-inch)
	01825	1	Saw Bar (18-inch) ✱
	00040	1	Saw Bar (12-inch)
40	03973	1	Male Coupler Body
41	03972	1	Female Coupler Body
42	11933	1	Chain Saw Guard Assembly
43	00038	2	Saw Bar Nut
44	00037	2	Saw Bar Washer
45	00360	4	O-Ring, 7/16 x 5/8 x 3/32
46	02728	1	Name Tag (CS23 only)
	03771	1	Name Tag (CS26 only)
47	04746	1	Automatic Oiler Sticker
48	11215	1	Flow Sticker (CS23 only)
	11216	1	Flow Sticker (CS26 only)
49	05153	1	Stanley Sticker
50	12412	1	Warning Sticker — Electrical
51	15863	1	Decal, Warning
	12195	1	Compliance Sticker (Not Shown) ✱ ✱
	12197	1	Compliance Certificate (Not Shown) ✱ ✱

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