

SKILSAW®

MODEL 1610 CHAIN SAW

OPERATORS MANUAL AND PARTS CHART

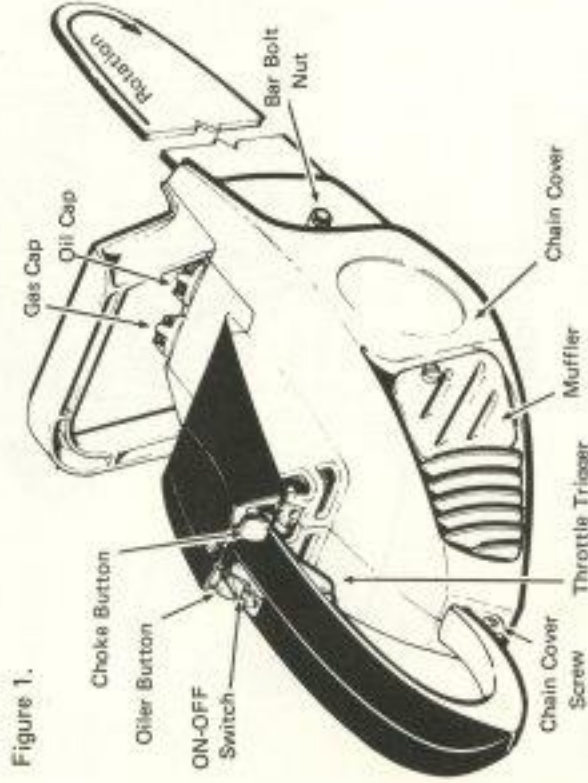


Figure 1.

WARNING: Do not attempt to adjust chain tension while engine is running. Do not run saw at high RPM when bar and chain are out of cut and under no load.

To Attach Bar and Chain: Remove chain cover — turn adjusting screw counter clockwise until adjusting lug is against bar pad — place guide bar over bar bolt and onto bar pad locating guide on casting — move bar back toward sprocket as far as it will go — arrange chain over sprocket with cutting edges of teeth facing forward over the top towards tip of bar—feed chain drive links into bar groove until chain is completely around the bar — slide bar forward — check that the chain drive link tangs are in the bar groove — replace the chain cover — tighten bar bolt nut and screw at rear of chain cover only tight enough to hold assembly temporarily.

Pull the chain around the bar while oiling the bar and chain with the manual oiler — turn the chain adjusting screw clockwise until chain can just be pulled around the bar by hand. Tighten bar bolt nut and screw at rear of chain cover, retighten chain adjuster screw. A properly adjusted chain should be tensioned to where it can be pulled completely around the bar by hand.

CAUTION: The chain is sharp — protect your hand when making adjustments and checking tension.

PREPARING SAW FOR USE

The internal moving parts of the 2 cycle engine fitted to this chain saw are lubricated solely by the oil which is added to the gasoline. The proportion of oil to gasoline is 1 part Skil chain saw oil or SAE 30 to 40 motor oil of at least M.S. service rating to 16 parts regular gasoline, i.e. 1/2 pint oil to 1 gallon of regular gasoline. The gasoline and oil **MUST BE THOROUGHLY MIXED** before being put in to fuel tank. Do not let dirt get into the fuel tank as it will plug the filter.

Fill the oil tank with SAE 30 motor oil. Do not use dirty or reclaimed motor oils. Oil tank should be refilled each time the fuel tank is filled.

Starting the Saw. Place the saw on level ground away from bystanders. Slide the ignition switch forward to the "ON" position, choke by pulling choke control out. Hold saw firmly and using **NO THROTTLE** pull the starter handle until resistance is felt. Then give a fast firm pull. When engine fires, return choke control to in position. It is not necessary to choke a warm engine. A cold engine may require several pulls to start.

Run the saw at a fast idling speed until the engine is warm. The carburetor idle speed adjusting screw controls the idling speed of the saw. It should be set after motor is warm so that motor will idle without moving the chain around the bar. It may be necessary to slightly vary the high and low speed adjustments for peak performance. See carburetor adjustment.

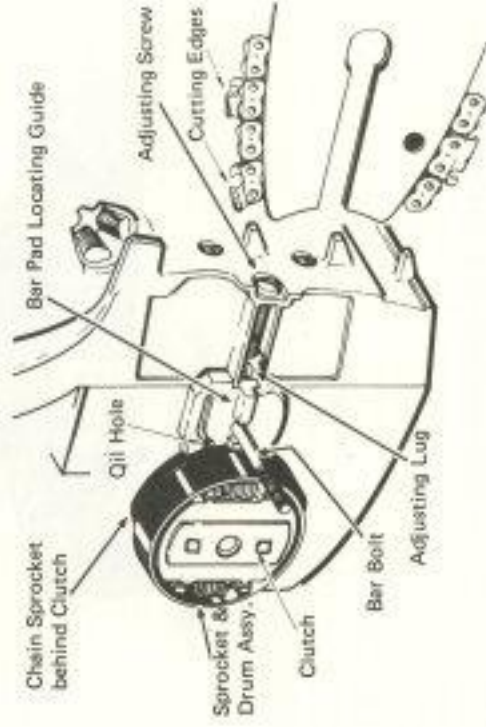


Figure 2. Attaching Bar

New Chain: Use manual oiler to oil chain liberally — check and adjust chain tension after every few cuts during first half hour of operation. Correct tension and lubrication are essential to long bar, chain and sprocket life — use your manual oiler to supplement oil supplied by automatic oiler. Prior to each operation of your chain saw be sure to operate the manual oiler at least one stroke.

PREVENTIVE MAINTENANCE

Carburetor Air Filter. The air filter element must be maintained in a clean condition. To clean: pull choke out, remove air cleaner cover and wash filter element in clean gasoline or solvent. Dry filter element before refitting. Never run the saw without the filter element in position.

Cylinder and Cylinder Head Fins. Inspect and clean cylinder fins regularly. At the same time remove all dirt and sawdust from around the flywheel and housings.

Bar and Bar Pad Oil Holes: To provide adequate lubrication to the bar and chain, the bar and bar pad holes must be kept clean. To inspect, remove bar and chain and clean dirt and sawdust from oil holes. The groove in the cutter bar must also be kept clean.

Clutch: Do not overload the clutch (example: the chain stops moving in the wood while making a cut) as this will cause excessive wear to the clutch drum -- should the chain become pinched in a cut immediately release the throttle, free the chain before proceeding with the cut.

Sprocket: Examine the sprocket periodically. Worn sprockets damage chain and greatly reduce cutting efficiency. Always install a new sprocket with a new chain. A few drops of oil behind clutch drum, will provide adequate sprocket bearing lubrication. Should the bearing become stiff remove the clutch and sprocket assembly, (the clutch assembly is left hand thread) clean the bearing and shaft thoroughly, replace the bearing if any damage is apparent. Repack the bearing with a good grade grease.

Carburetor Adjustments: NOTE: Before making any carburetor adjustments, clean the air filter and filter chamber.

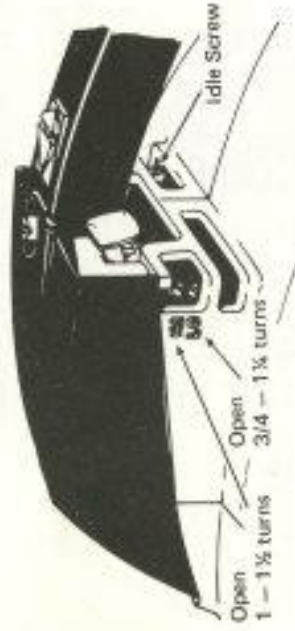


Figure 3. Adjusting Carburetor

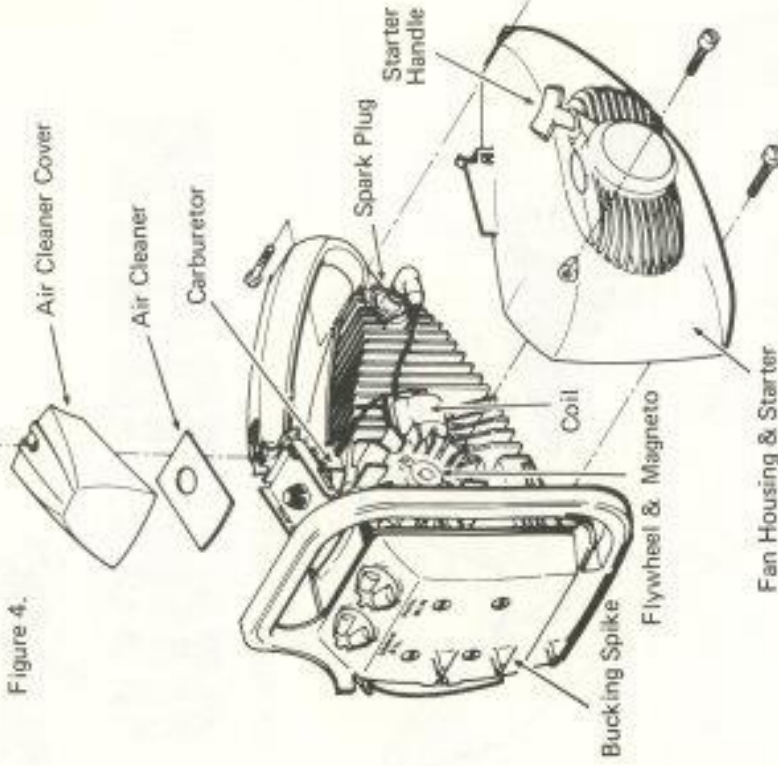
Adjust the carburetor in the following sequence:

1. Screw in main jet (HI) lightly, then open 1 to 1 1/2 turns.
2. Screw in idle jet (LO) lightly, then open 3/4" to 1 1/4 turns.
3. Unscrew idle speed screw until screw is just clear of cam then screw in 1 to 1 1/4 turns.

Note: Engine cannot idle correctly if idle speed screw is more than 1 1/2 turns open.

Further fine adjustments to high and low speed jets may be required to obtain maximum power and cutting speed, these should be made under load.

Figure 4.



CUTTING TECHNIQUES

Before felling a tree survey it carefully: consider size, shape, direction of lean and danger from other trees or snags in area where you want the tree to fall. Clear work area around tree, limb branches on tree only high enough so that undercut can be made. Be on the lookout for anything that can touch the top of the bar and cause kickback, do not overreach, always maintain full control of saw.

Undercut: Make undercut facing direction you wish tree to fall, depth penetration should be 1/3 of tree's diameter. See Drawing. Never fell a tree without making a proper undercut.

Backcutting: Make the backcut about 2" above and parallel to undercut. See Drawing. Should your chain bind in cut, stop the saw, use wedges to free it. Do not cut through tree.

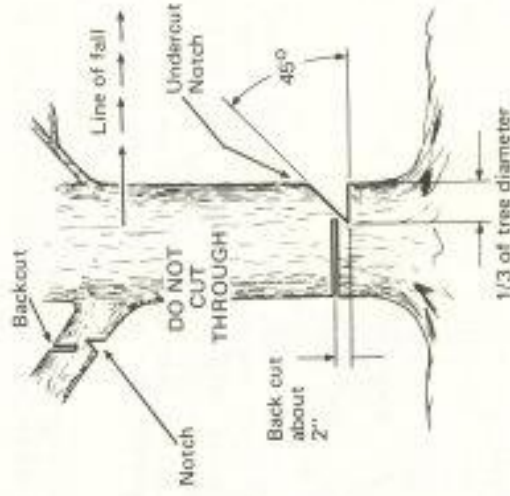


Figure 5. Limbing and Felling Trees

BASIC SAFETY RULES FOR THE OPERATION OF CHAIN SAWS

1. Use a safety helmet, safety footwear and snug fitting clothing.
2. Mix and handle fuels in safety containers, refuel over bare ground, wipe off any fuel or oil spilled on saw before starting.
3. To start the saw, place it on the ground away from fueling area and make sure no one else is near it.
4. Keep all bystanders at a safe distance from the work area.
5. Never start cutting until you have a clear place to work, a secure place to stand and a safe exit from limbs and trees.
6. Cut away from your body at all times, changing your position if necessary to work safely.
7. When limbing a fallen tree, do not stand on the tree, use supreme caution when cutting limbs supporting the fallen tree.
8. When bucking, always stand on the high side of the log, place bumper against log, use both hands on saw, have a firm grip and keep the saw under control at all times.
9. When moving from tree to tree, stop the saw and always carry it by the front handle with the bar and chain pointing toward the rear.
CAUTION: Exhaust deflector is normally hot after saw is used and could cause a burn if brought into contact with your body.

MANUFACTURER'S WARRANTY

We warrant each SKILSAW Chain Saw to be free from defects in material and workmanship under normal use and service, our obligation under this warranty being limited to making good any part or parts thereof which shall, within 30 days from delivery to the original purchaser, prove to have been thus defective.

This warranty being expressly in lieu of all other warranties, expressed or implied, and all other obligations or liabilities on our part, and we neither assume, nor authorize any person to assume for us, any other liability in connection with the sale of our chain saws.

To make a claim under this warranty, return freight or postage prepaid to the nearest SKIL Factory Service Center. All the claims must be accompanied with the model and serial number of the saw.

This warranty shall not apply to any SKILSAW Chain Saw which shall have been repaired or altered by any unauthorized person in any way, so as in our judgement to affect its stability and reliability, not to any saw which has been subject to misuse, negligence or accident.

It is the policy of SKIL Corporation to ensure continual improvement in the design, engineering and manufacturing of its product and consequently, specifications are subject to change without notice or obligation to make retroactive fitment in respect of units previously shipped from the factory.

SKIL FACTORY SERVICE CENTRES

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MONTREAL 11, QUEBEC	1590 Chabanel Street W.	384-7100
SCARBOROUGH 703, ONTARIO	617 Kennedy Road	267-1191
TORONTO 570, ONTARIO	66 Advance Road	231-9293
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