

McLANE

MOWER SHARPENING ATTACHMENT

Installation and Use Instruction FOR 20" AND 25" MOWERS

Read the complete instructions through once before performing the initial installation.

Your McLane Mower was factory sharpened using a precision grinding and backlapping procedure. This process will deliver hours of excellent cutting performance before simple adjustments or sharpening are required. The Sharpening Attachment for your Mower allows you to use the engine power to backlap the blades against the bedknife. When you are done, your blades should be as sharp as they were when they left the factory.

When you notice a difference in the quality of cut you are receiving from your mower, check the cutting edge surfaces on the reel and bedknife by visually inspecting for nicks and looking for a dulling of the color of the cutting surfaces due to wear. A sharp properly adjusted machine will cleanly shear a piece of newspaper. Cutting paper is an excellent test to determine the proper adjustment.

INSTALLATION OF THE REEL MOWER SHARPENING ATTACHEMENT:

SAFETY FIRST: Caution is to be exercised when sharpening and adjusting your Mower. If at anytime you are not totally sure of just how to utilize the following instructions, call the Technical Service Department at your local Lawn Mower Service Shop before proceeding.

Tools Required:

Small #1 Common Screwdriver
 1/2" Combination Wrench or Socket Wrench
 1/4" Hex Wrench, supplied in kit.

Hammer

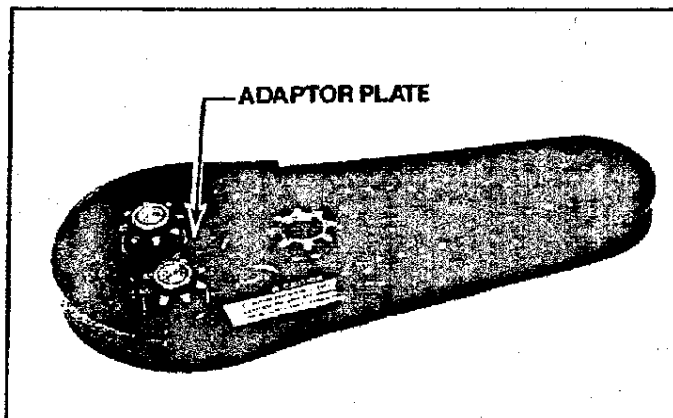
Valve Lapping Compound, not included in kit.

Follow the sequence of steps below:

STEP 1: Remove the reel drive chain guard on the right side of the reel by removing two bolts with your 1/2" wrench. See Photo 1.

CAUTION:

Be sure the engine throttle is in the off position and the spark plug lead is disconnected. The wheel drive lever should be disengaged or "off" and the mower should be on a level, hard surface.



Your sharpening kit includes: a chain guard, a long chain, a 1/4" Hex Wrench, an 8-tooth sprocket, and an adaptor plate assembly with two sprockets in position. (Please follow the Caution Decal on the plate).

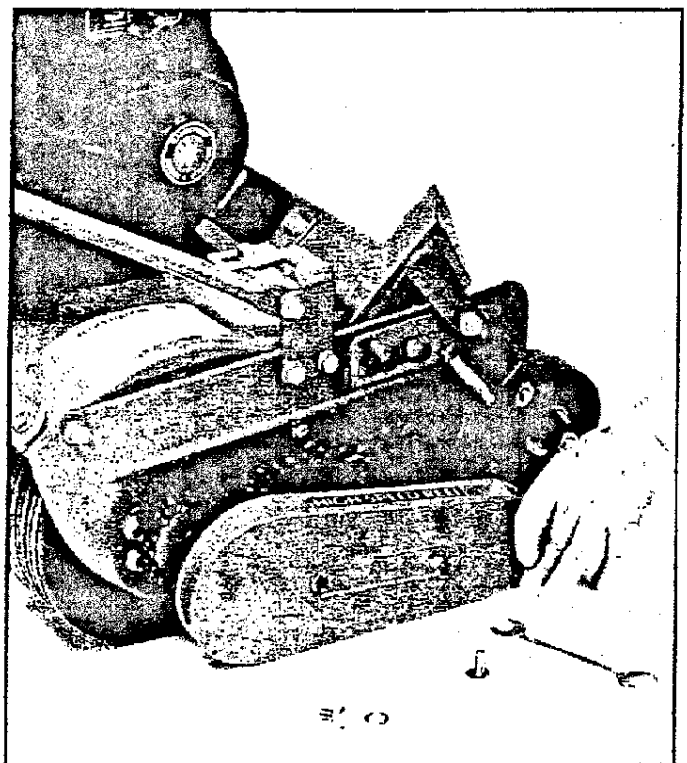


Photo 1

STEP 2: Now locate the masterlink on the reel drive chain and carefully open the link with a small screwdriver and remove the masterlink and then the chain from its sprockets. Photo 2.

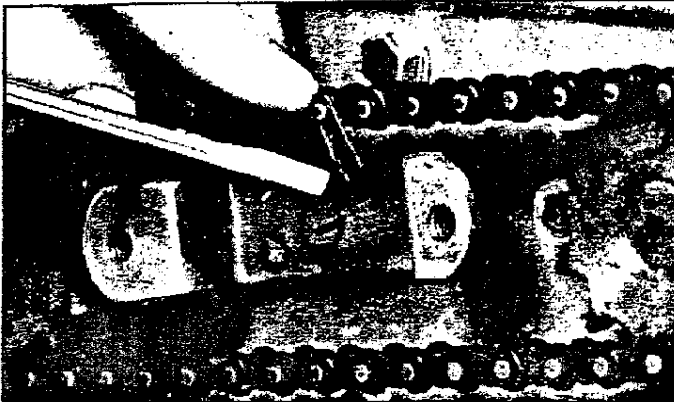


Photo 2

STEP 3: The chain you just removed engaged two sprockets. At this time we need to remove the sprocket on the left side (17 teeth). It is held in place with a set screw which will have to be loosened with the 1/4" hex wrench. When the set screw is fully loosened, the sprocket will slide off its shaft. Photo 3.

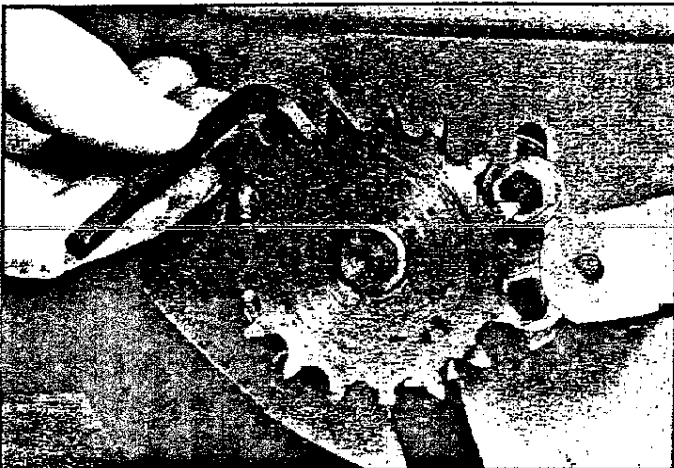


Photo 3

STEP 4: Remove four bolts that hold the rear axle support with your 1/2" wrench. Install the sharpening attachment adaptor assembly in the same four holes with the bolts you just removed. See Photo 4. Do not tighten bolts. Move the plate all the way forward toward the reel before tightening the bolts very slightly. This will give you room to install the chain easily.

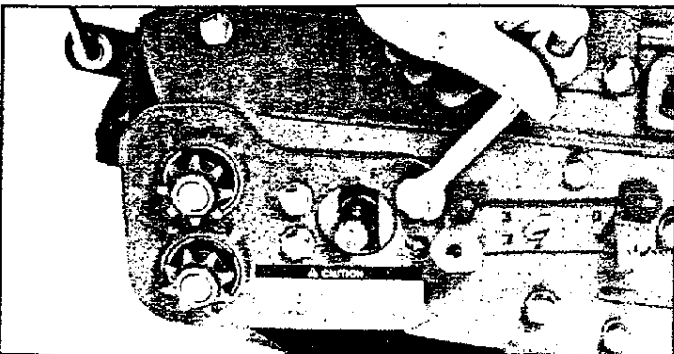


Photo 4

STEP 5: Install the 8-tooth sprocket on the same shaft you removed a sprocket from in step 3. Be sure to seat the allen set screw in the indentation on the shaft as you install it. Then, snug the set screw with the 1/4" hex wrench. Photo 5.

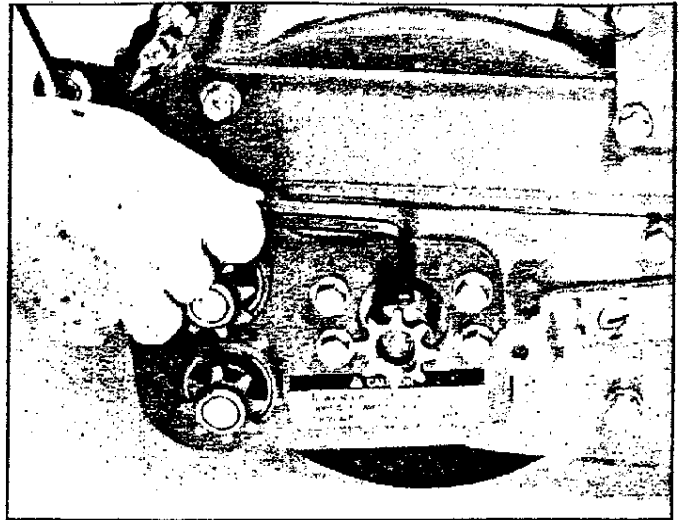


Photo 5 Photo 5 (25" Mower Shown)

STEP 6: Remove the masterlink from the long chain included in your sharpening kit and wrap the chain around the sprockets as shown in Photos 6 and 7. Install the masterlink back in the chain. Push the adaptor plate to the left to remove slack in the chain. Then, tighten the bolts with a 1/2" wrench.

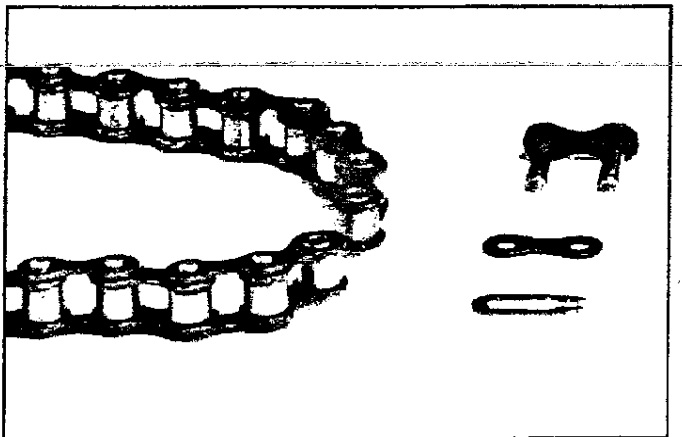


Photo 6

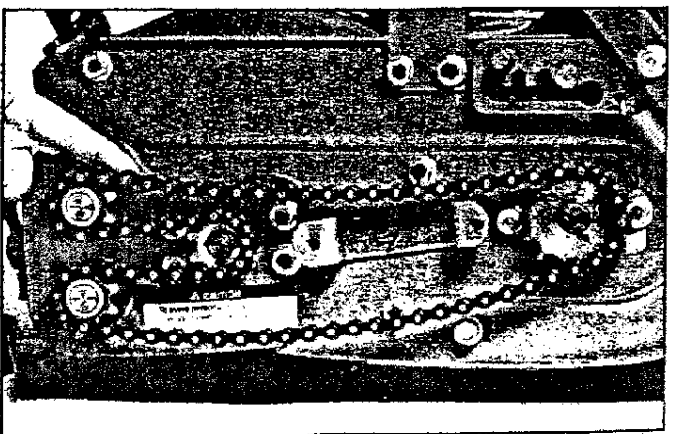


Photo 7

STEP 7: Lightly loosen the four reel position adjusting bolts (two on each side of the mower) as shown in Photos 8 and 9. Apply a sparing amount of valve lapping compound evenly across at least 2 blades on the reel mower. Photo 10.

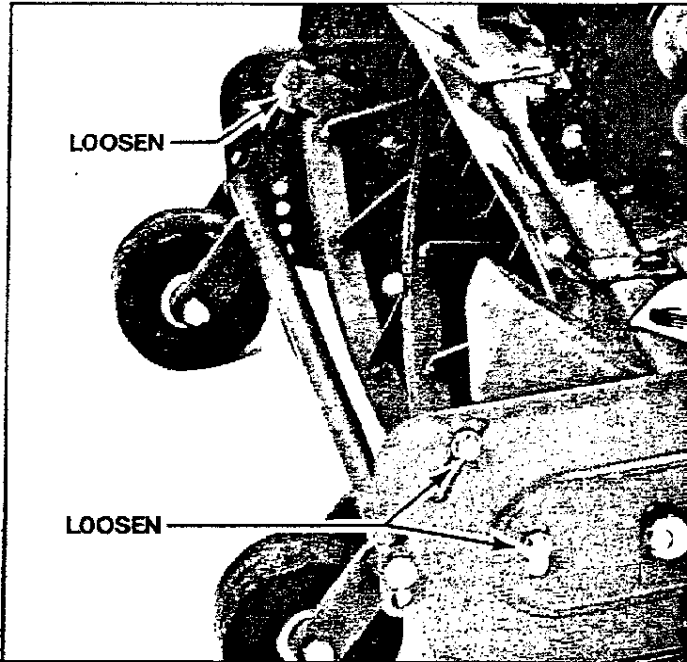


Photo 8

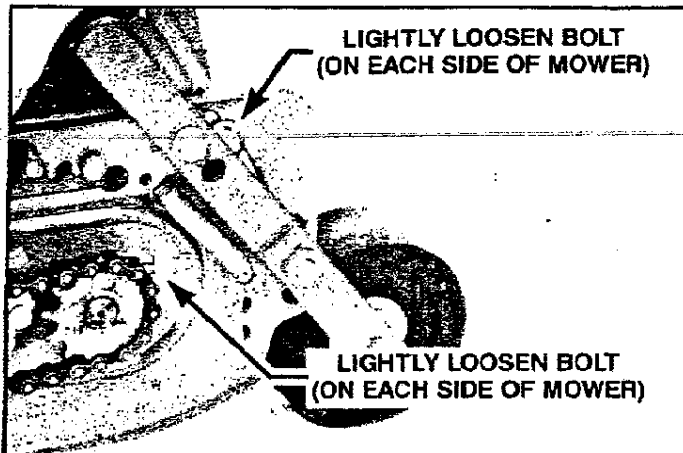


Photo 9

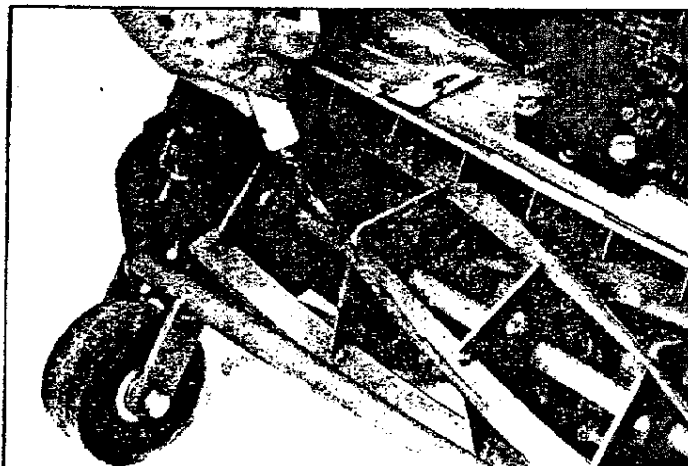


Photo 10

STEP 8: Install the special sharpening attachment guard supplied in your kit with the two bolts removed from the mower in Step 1. Photo 11.

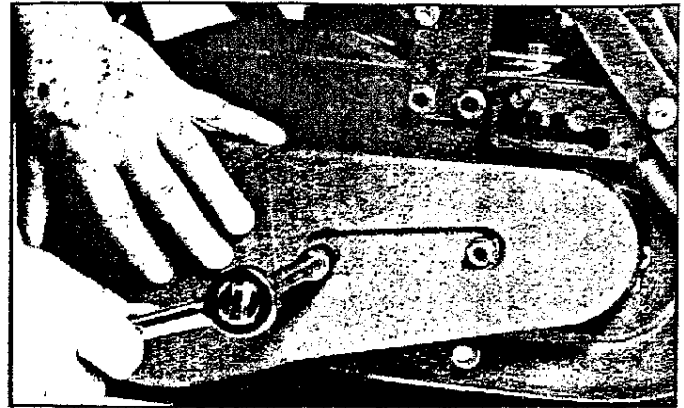


Photo 11

STEP 9: Re-connect the spark plug lead. Move the throttle cable off the stop position and start the engine. As soon as the engine is warmed up (one to two minutes) move the throttle to slow idle position. Check the wheel drive lever to insure that it is disengaged and be careful to insure that all tools, parts, people and pets are clear from the proximity of the mowing reel. Engage the clutch and run the blade for a period of 10 minutes while the mower is stationary.

CAUTION

To avoid personal injury, do not operate mower for sharpening, or mow with chain cover removed.

STEP 10: Shut the engine off and disconnect the spark plug lead. Tap reel gently with wooden block down to meet with the bedknife. Apply equal pressure on all points of the reel. Reel should turn easily by hand, but have a light contact with the bedknife at all points. Check by taking a piece of thin paper and cutting it between reel and bedknife by turning reel by hand. Make adjustments until paper cuts at several points across reel. Now tighten four bolts loosened with step 7. Apply valve lapping compound on the outer surface of each blade. Reconnect the spark plug lead, start engine, set engine to a slow idle speed and engage the clutch control lever to power the reel for another 10 minutes. Wheel drive lever must be in the "off" position.

