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Gehl

Operator's Manual

Hay-King 108

Mower Conditioner

Operator's Manual

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GEHL COMPANY
WEST BEND, WISCONSIN 53095 U.S.A.

HK108 - INTRODUCTION

Mr. Owner:

Your decision to purchase Gehl equipment is a wise one. You have made a sound and lasting investment. Gehl Company has been building farm equipment for well over a century. Today, it is our only business. Our entire manufacturing and marketing philosophy is built upon quality. The quality built into Gehl products assure you the performance and reliability you need to make a profit. It is our hope that you will return to Gehl for all your forage harvesting, handling and feedmaking equipment.

Over 2000 Implement Dealers are authorized to service your Gehl equipment. They maintain genuine Gehl service parts.

All service parts should be obtained from or ordered through your Gehl dealer. Give complete information when ordering service parts. The model number and serial number should always be given. Numbers for this unit are stamped on a plate located on the Left Side of the Main Frame just above the Wheel. Record numbers in the space provided as a handy record for quick reference.

"Right" and "Left" are determined from a position standing behind the unit and facing direction of travel. The Transmission and Drive are then on the "Left" side. "Front" is the leading side and "Rear" is the trailing side when the tractor is traveling forward.

Gehl Company reserves the right to make changes or improvements in the design or construction of any part without incurring the obligation to install such changes on any unit previously delivered.

TABLE OF CONTENTS

HK108 - SPECIFICATIONS

Power	Tractor PTO - 540-1000 RPM
Operating Speed	0-8 MPH
Width of Cut	9-feet
Cutting Height	1" - 8"
Sickle Sections	Underserrated
Sickle Speed	1360 strokes/minute
Drive	No. 60 roller chain
Rollers	Upper, rubber; lower, spiral ribbed steel
Spring Pressure	Adjustable, 0-1400 lbs.
Lift	Hydraulic
Hitch	Adjustable for transport
Tires	6:70 x 15
Jack	Screw-type
Power Required	35 HP and up

(SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE)

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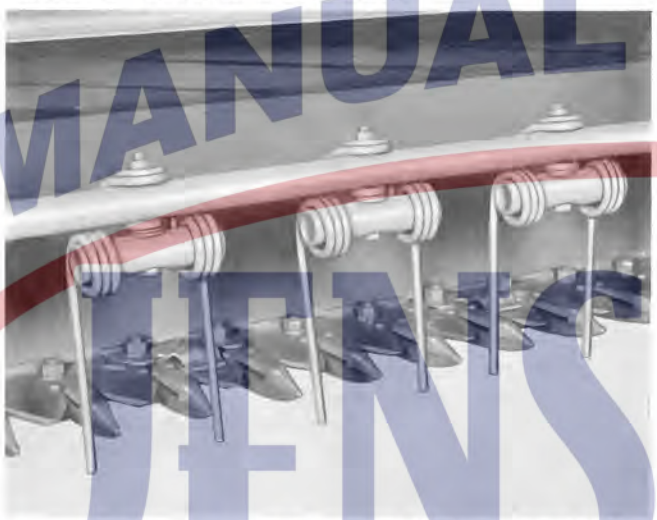
Clips will hold the Sickle down. **DO NOT** strike Clips so hard that they cause the Sickle to bind.

If Guards become bent or new Guards are installed, they may need adjusting so that all Guards line up perfectly.

NOTE: Section Guards can be removed when the Sickle is installed in the machine only when the Sickle Section is centered between Guard points.

IMPORTANT: Sickle sections must move freely through all section Guards without binding.



The Sickle can be moved back and forth without binding only when Guards and Sickle Clips are adjusted properly.

REMOVING AND REPLACING THE SICKLE

When Sickle Sections require sharpening, remove bolt from the Pitman Arm and bolt from the Sickle. Slide Sickle out of the Section Guards.

After the Sickle has been removed from the machine, check that all Sections are riveted tight and sharpened properly.

Also, remove bends and twists in the Sickle Bar that could cause binding or poor cutting. Check and make certain that all Section Guards are in good condition.

REMOVE UPPER CRUSHER ROLLER

When the Upper Crusher Roller is removed, the Mower-Conditioner can be used as a grain swather. Cut grain will pass over the Lower Roller and into windrows of desired width and relative field position.

To remove the Upper Crusher Roller, follow steps described below:

1. Loosen Upper Roller Chain Tightener Sprocket and remove the 60 link Roller Drive Chain.
2. Remove bolts from the Upper Roller Bearing Housings.
3. Loosen set screw and drive right Bearing and Housing off the Shaft. Shift Roller until left Bearing Housing disengages pilot hole in the Pivot Arm. Lift Roller from the Pivot Arms. Set Roller, Bearing, Chain and bolts in a clean sheltered area until required for assembling.

When using as grain swather, mount accessory Grain Windrowers as described on page 17.

DRIVE CHAIN ADJUSTMENTS

To provide smooth and trouble-free operation, Drive Chains **MUST** be adjusted to proper tension. **DO NOT** make chains excessively tight. Excessive tension puts undue strain on shafts and bearings as well as on the chain and sprockets. Adjust chain to allow 1/4 to 1 inch free movement on side of the chain opposite the tightener.

REEL DRIVE CHAIN

To adjust Reel Drive Chain tension, loosen nut on sprocket side of the Tightener Bracket. Turn front nut until chain is at proper operating tension. Tighten other nut until the tightener is locked in position. Back nut off to allow approximately 1/16 inch back lash on the Reel Drive Chain.

ROLLER DRIVE CHAIN

To adjust Roller Drive Chain tension:

1. Loosen Chain Tightener Sprocket Stud.
2. Turn nut on take-up bolt until chain is at proper operating tension.
3. Tighten nut on Tightener Sprocket Stud.

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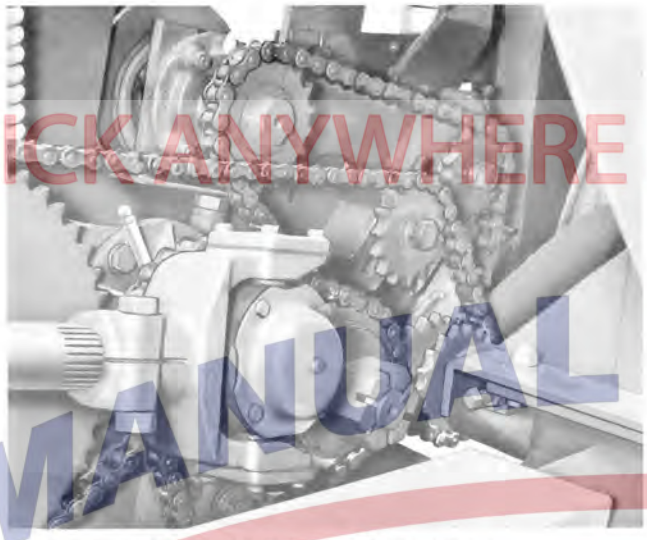

TRANSMISSION ADJUSTMENT

If Roller Drive Chains are continually loose, this may indicate that the Transmission Roller Drive Shaft and Mower-Conditioner Pivot are mis-aligned.

To adjust alignment, turn adjustment screws on the Transmission. Sight through the cutting unit pivot pipe and adjust Transmission so shaft center and pivot pipe center are in line. Lock nut after adjustment.

TRANSPORTING THE "HAY-KING" ON PUBLIC HIGHWAYS

Gehl Company complies with laws for safety when transporting slow moving vehicles on public highways.

This Mower-Conditioner is equipped with a Bracket located at left rear side of the Conditioner Hood. This Bracket facilitates installation of the slow moving vehicle emblem as shown below. Purchase emblem locally.

Because of variation in safety laws of different states in which these Hay-Kings are used, it may be necessary to change location of the Mounting Bracket. Your Gehl Dealer will help you to make changes necessary to comply with laws of your state.

STORAGE

At the end of the harvesting season, it is suggested that the following steps be performed.

1. Clean the Mower-Conditioner thoroughly of all dirt, trash, excess grease and any other material that will absorb water and cause rust.
2. Thoroughly lubricate as indicated on "Lubrication" page of this manual.
3. Clean and oil all chains.
4. Paint all parts from which the paint has been worn to prevent rust.
5. Order and replace any needed parts so Mower-Conditioner will be ready to operate next season.
6. Store machine in a dry place where it is neither exposed to weather or livestock.

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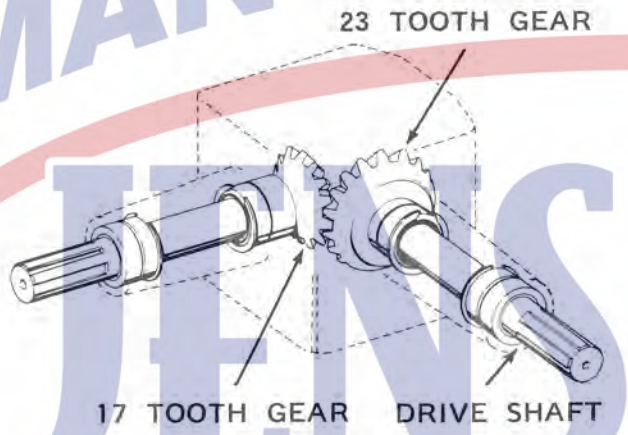
If it is necessary to operate the machine with a tractor that has power take-off drive speed different than machine was originally set-up for, Main Transmission Gears must be changed to maintain correct speed.

Take notice of illustrations and follow instructions closely when changing Transmission Gears.

Transmission Gears must be assembled as follows:

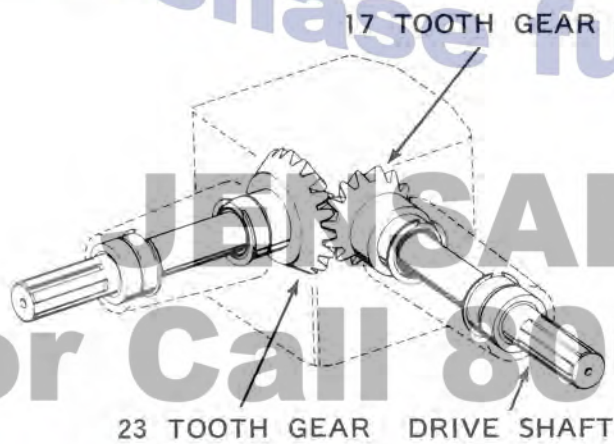
(540 RPM POWER TAKE-OFF)

For tractors having 540 RPM Power Take-off, the 23 tooth gear must be on the Drive Shaft and the 17 tooth gear must be on the Driven Shaft.



(1000 RPM POWER TAKE-OFF)

For tractors having 1000 RPM Power Take-off, the 17 tooth gear must be on the Drive Shaft and the 23 tooth gear must be on the Driven Shaft.



To change Transmission Gears, follow order closely as described in the instructions that follow:

1. Disassemble Transmission Housing from the support. Remove Housing Cover and Drain Transmission grease.
2. Remove lock nut and washers from the Drive Shaft. Remove pipe plug from the Transmission Housing and drive or press the Drive Shaft through the bearings far enough to remove the Drive Gear.

NOTICE

Extreme care should be exercised in preventing damage to parts or in raising burrs which will prevent proper seating of parts when bearings and gears are re-assembled.

3. Remove lock nut and washers holding Gear on the Driven Shaft. Slide Gear off the shaft. Do not remove the key.
4. Inspect Gear removed from the Drive Shaft in step No. 2 and be certain it is free from dirt. Slide Gear on Driven Shaft and over the key. Fasten securely with washers and lock nut removed in step No. 3. Bend lock washer to prevent lock nut from loosening.
5. Check Drive Shaft and be certain it is free from dirt. Slide shaft through the bearings. Position Gear removed from the Driven Shaft. Fasten securely with washers and lock nut removed in step No. 2. Bend lock washer to prevent lock nut from loosening.

IMPORTANT: Be extremely careful in preventing damage to the oil seal when installing the Drive Shaft.

6. Check to see that outside edge of both Drive and Driven Gear teeth are in line. If teeth are not in line, Gears must be adjusted. Remove Gears and place shim washers to mesh gear teeth properly. The Drive Shaft will turn freely, by hand, after Gears have been properly meshed.

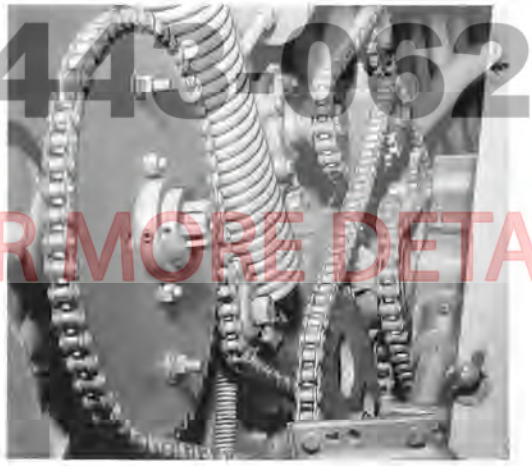
NOTE: The best bearing setting is a free running clearance with no appreciable end play.

7. Re-assemble Transmission to the support. Be certain inside of the Transmission is clean. Add amount of grease called for in "Lubrication Section" of this manual. Replace Transmission Cover and Gasket.

At time of changing Transmission Gears to suit tractor PTO, the Universal Drive must also be changed. For tractors having 540 RPM Power Take-off, order S16198 w/one S16199. For tractors having 1000 RPM Power Take-off, order 041906 w/one 041907.

OVER-LOAD SAFETY (Before Serial No. 7501)

The Reel Drive Sprocket has Safety Shear Bolts to prevent excessive damage when the Reel is overloaded. When bolts shear, lubricate face of the Safety Flange, align holes and insert 3/8 x 1½ regular hexagon head cap screws. **NOTE:** Threads must not be in the shear area.



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