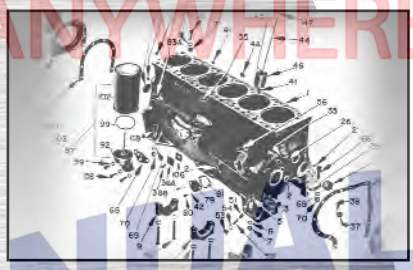

Gehl

Service, Part, & Operator's Manual

DM140, DM160 Disc Mowers

Service, Part, & Operator's Manual

GE-SOP-DM140+

DM140 - DM160

Disc Mowers

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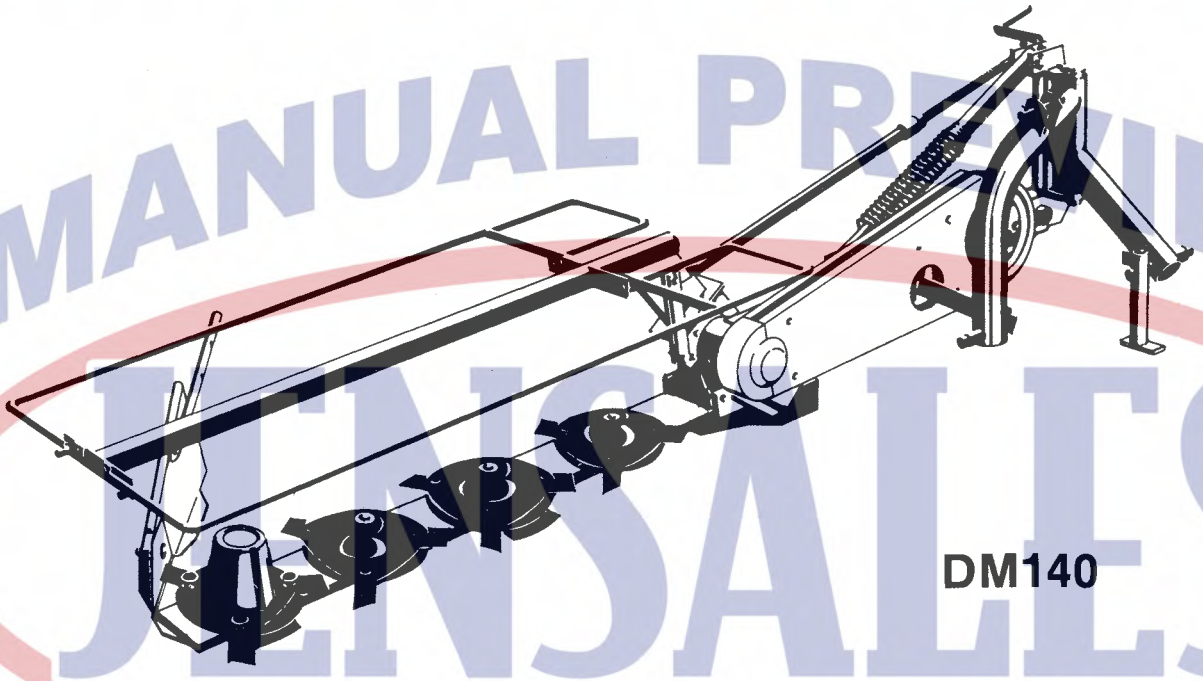
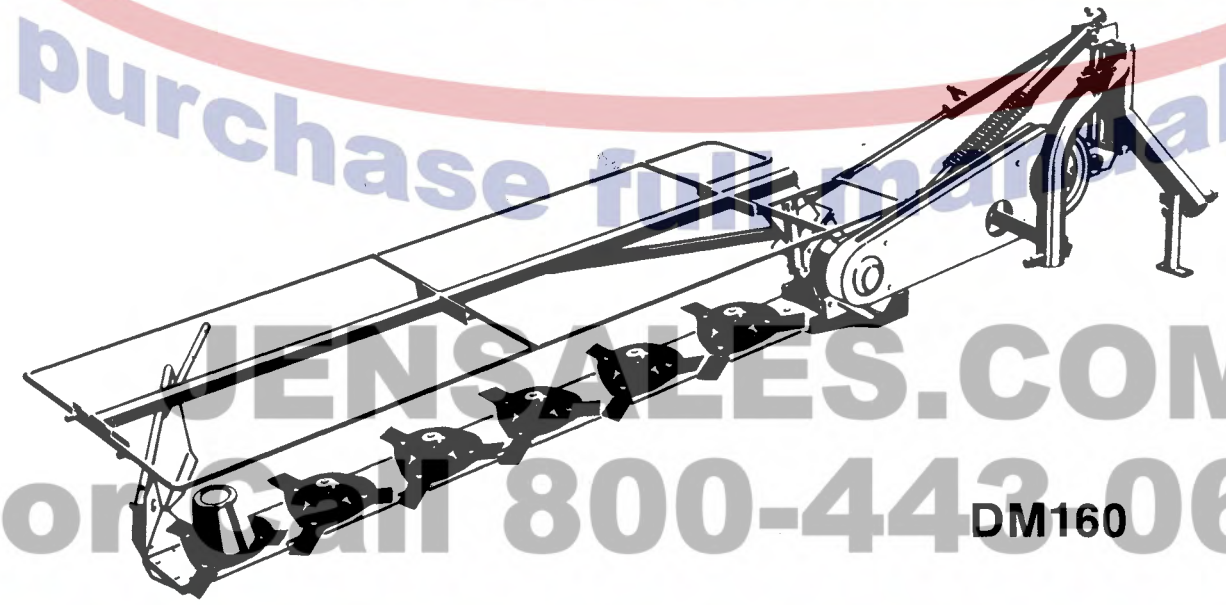


DM140



DM160

OPERATOR'S AND SERVICE PARTS MANUAL

BELL® COMPANY

INTRODUCTION

Mr. Operator:

Your decision to purchase this piece of GEHL equipment was a good one. We are sure that your decision was strongly considered and that you are looking forward to many seasons of work from this machine.

We, as a Company, have invested a great deal of time and effort in developing our lines of farm equipment and Skid Steer Loaders. The equipment you have purchased is built with a great deal of pride and designed to give you long life, efficient operation, durability and dependability.

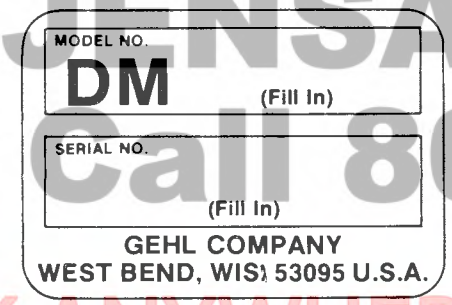
This manual was developed specifically for the machine you have purchased. The information, contained within, was prepared for your assistance in preparing, adjusting, maintaining and servicing your machine. More importantly, this manual provides an operation plan for safe and proper use of your machine. Major points of safe operation are detailed in the **SAFETY** chapter of this manual. Refer to the Table of Contents for an outline (by chapters) of this manual. Use the Index, in the back of the manual, for specific chapter and topic/page number references.

Modern machinery has become more sophisticated and, with that in mind, GEHL Company asks that you read and understand the contents of this manual COMPLETELY and become familiar with your new machine, BEFORE attempting to operate it.

Our wide Dealership network stands by to provide you with any assistance you may require, including genuine GEHL service parts. All parts should be obtained from or ordered through your GEHL Dealer. Give complete information about the part as well as the model number and serial number of your machine. Record numbers, in space provided, as a handy record for quick reference.

Numbers for this unit are stamped on a plate located on a Gusset on the Main Frame.

Typical Model & Serial No. Plate



"Right" and "Left" are determined from a position standing behind the Mower and facing the direction of travel. From this position, the Support Leg is on the "Left" Side.

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.

Throughout this manual, information is provided which is set in **bold type** and introduced by the word **NOTE. BE SURE** to **read carefully** and **comply with** the message or directive given. Following this information will improve your operating or maintenance efficiency, help you to avoid costly breakdown or unnecessary damage and, extend your machine's life.

The GEHL Company and the American Society of Agricultural Engineers have adopted this SAFETY ALERT SYMBOL

to pinpoint characteristics which, if not properly followed, can create a safety hazard. When you see this symbol in this manual or on the unit itself, you are reminded to BE ALERT! Your Safety is involved.

TABLE OF CONTENTS

SPECIFICATIONS

Dimensions are in Inches (Millimeters) Unless Otherwise Noted

Models & Descriptions ..... **DM140** - Disc Mower with Four Counterrotating Discs
DM160 - Disc Mower with Six Counterrotating Discs

Power Requirements ..... **DM140** - From 540 RPM 35 hp (26 kw) tractor with 3-point hitch; Category I or II
DM160 - From 540 RPM 45 hp (34 kw) tractor with 3-point hitch; Category II

Operating Width ..... **DM140** - 65 (1650)
DM160 - 94 (2390)

Transport Width (Including tractor) 75 (1905)

Weight ..... **DM140** - 715 lb (322 kg)
DM160 - 918 lb (414 kg)

Discs Speed ..... 3000 RPM at 540 RPM tractor PTO speed

Number of Discs ..... **DM140** - 4
DM160 - 6

Total Number of Knives ..... **DM140** - 12
DM160 - 18

Knife Overlap 4-1/4 (108)

Knife Tip Speed ..... 175 mph (280 kmh)

Oil Capacities:
Gearbox ..... 1/2 U.S. Pint (1/4 liter) of HD 90 Oil
Cutterbar .... **DM140** - 2-1/2 U.S. Pint (1-1/2 liter) of HD 90 Oil
DM160 - 4 U.S. Pint (2-1/4 liter) of HD 90 Oil

Ground Travel Speed ..... 6 mph (9.5 kmh) or faster as conditions permit

STANDARD FEATURES

Disc Mowers are provided with a three-strand **(DM140)** or four-strand **(DM160)** V-Belt driven bevel Gearbox with Telescoping PTO Coupling between the Drive Sheave and tractor PTO shaft.
Oil bathed Spur Gear Cutterbar Disc drive
Safety Tension Bolt Cutterbar Breakaway Protection
Variable Cutterbar operating positions to 45° above or below straight horizontal
Heavy synthetic flexible sheet Guard over the Cutterbar
Cutterbar provided with built-in and replaceable Stone Guard Plates
Cutterbar Knives have a 15° twist to lift the cut material over the Cutterbar
Hand-crank Cutterbar Control (standard) on **DM140**
Hydraulic Cylinder Cutterbar Control (standard) on **DM160** or (optional) on **DM140**

GENERAL INFORMATION

The following abbreviations are used in this information:

CB - Carriage Bolt
HFLS - Hexagon Flanged Lock Screw
HHCS - Hexagon Head Cap Screw
FHSCS - Flat Head Socket Cap screw
SHCS - Socket Head Cap Screw
HFLN - Hexagon Flanged Lock Nut
HJN - Hexagon Jam Nut
HLN - Hexagon Lock Nut
HN - Hexagon Nut
NILN - Nylon Inserted Lock Nut
SW - Star Washer

General Bolt Torque Data in Ft-Lb*

BOLT SIZE	GRADE					
	8.8		10.9		12.9	
Metric	DRY	LUB.	DRY	LUB.	DRY	LUB.
M6	8	6	11	8	13.5	10
M8	19	14	27	20	32.5	24
M10	37.5	28	53	39	64	47
M12	65	48	91.5	67.5	111.3	82
M14	103.5	76.5	145.5	108	176.5	131
M16	158.5	117.5	223.5	165.5	271	200.5

***Multiply by (1.383) for metric N-m**

PACKING & ASSEMBLY

The GEHL DM140 and DM160 Disc Mowers are packaged partially disassembled for shipment. In general, the following components will have to be assembled to compose an operational unit:

A-frame with Support Beam

Lift Crank or Hydraulic Cylinder

Telescoping Spring

Cutterbar Breakaway Bolt Safety Device

Foldable Foot (Support)

Protective Sheet Frame

Coupling PTO Shaft

Swathdoor Holder

NOTE: Refer to the Uncrating & Initial Set-up topic for specific details.

PREPARING THE TRACTOR

In general, any tractor which is equipped with a hydraulically operated 3-point hitch is suitable for attaching and operating the GEHL Disc Mower. A freely adjustable toplink (1 of Fig. 1) and swivel cranks on the lower links are essential (2 of Fig. 2). A track width of 59-1/2" (1510 mm) is recommended to allow sufficient space for the tractor wheels (3 of Fig. 1). Stabilizing bars or chains (4 of Figs. 1 & 2) are required to determine the position of the tractor and mower to the standing crop.

NOTE: A well-oiled 3-point linkage is essential to adjusting the position of the mower.

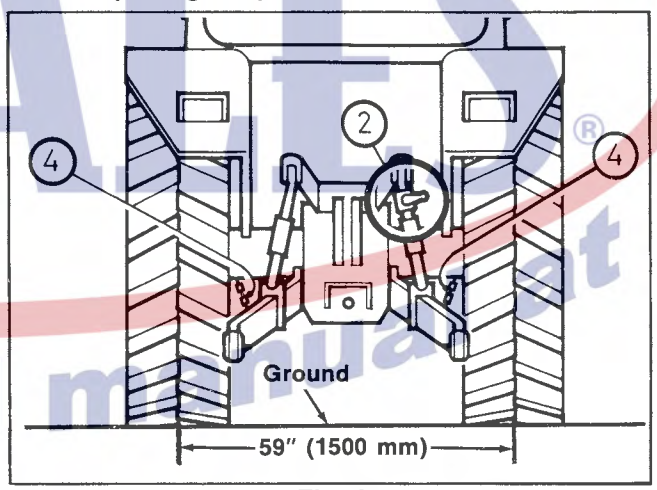


Fig. 1

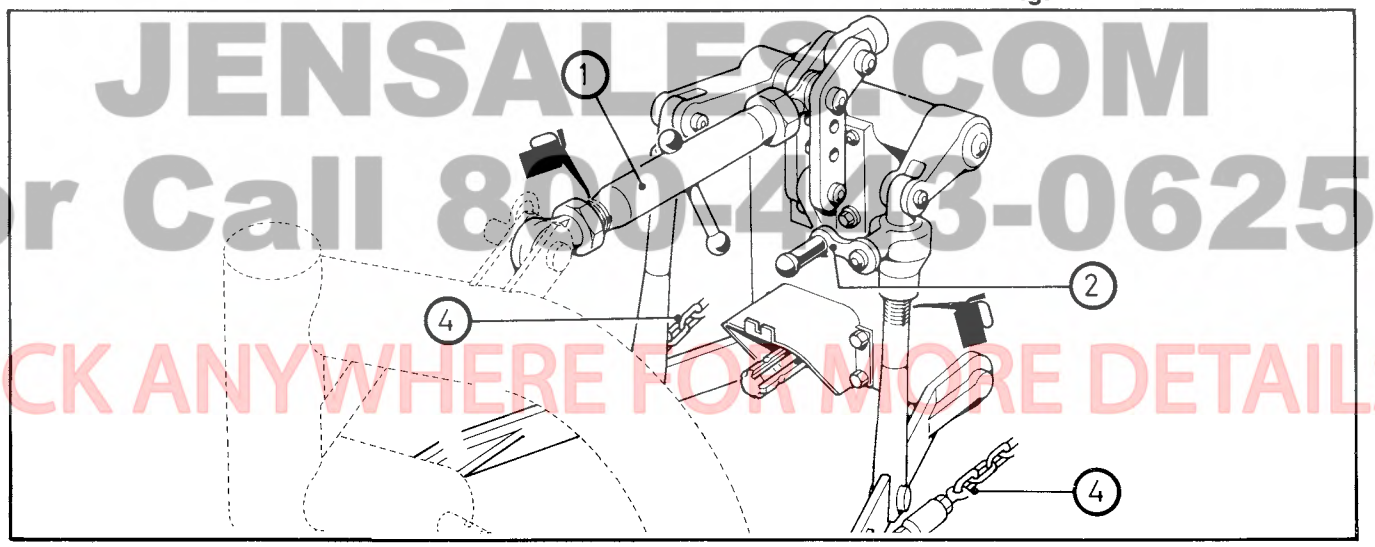


Fig. 2

PTO TELECOPING SHAFT ATTACHMENT

Raise the Mower so that the tractor PTO shaft, and the Mower Drive Shaft are at the same height (Fig. 12). Align the two halves of the Telescoping PTO (side by side) and measure the amount necessary for cutoff (Fig. 13). For correct adjustment, the Tubes should overlap each other allowing for a 1″ (25.4 mm) clearance. If the two halves are too long, first cut the Guard Tubes to the correct length (4 of Fig. 14). Then, cut the same length from the PTO Shaft and Tube (5 of Fig. 14). Remove the burrs, clean the Tubes and grease them from the outsides.

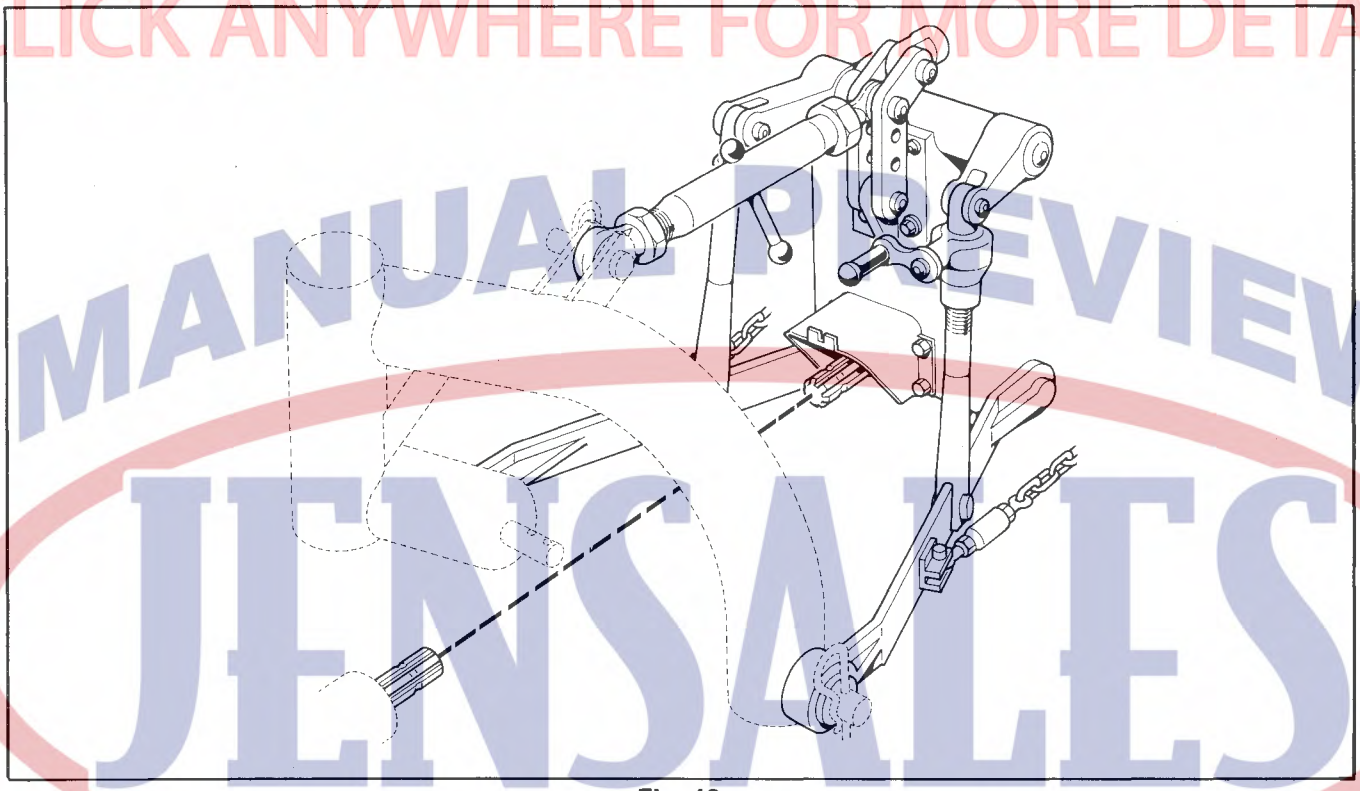


Fig. 12

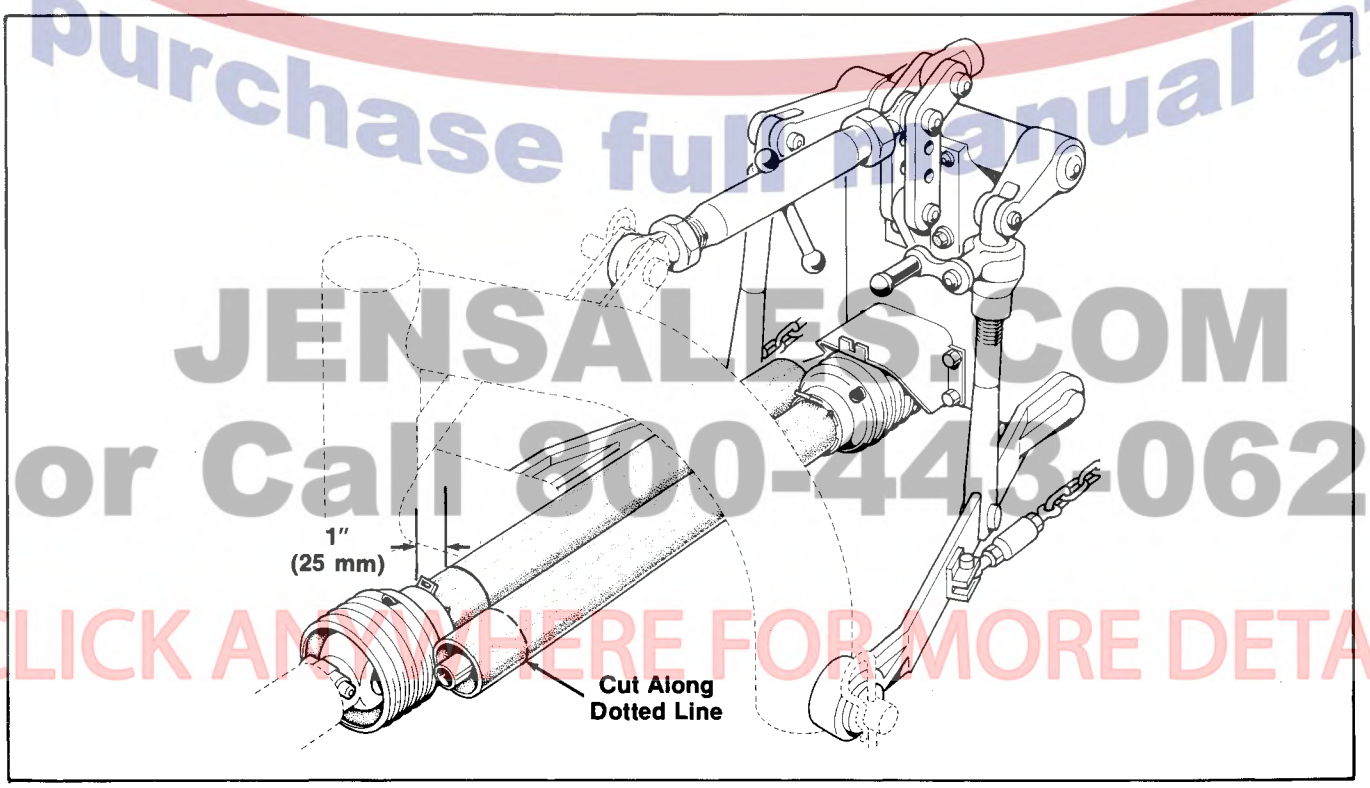


Fig. 13

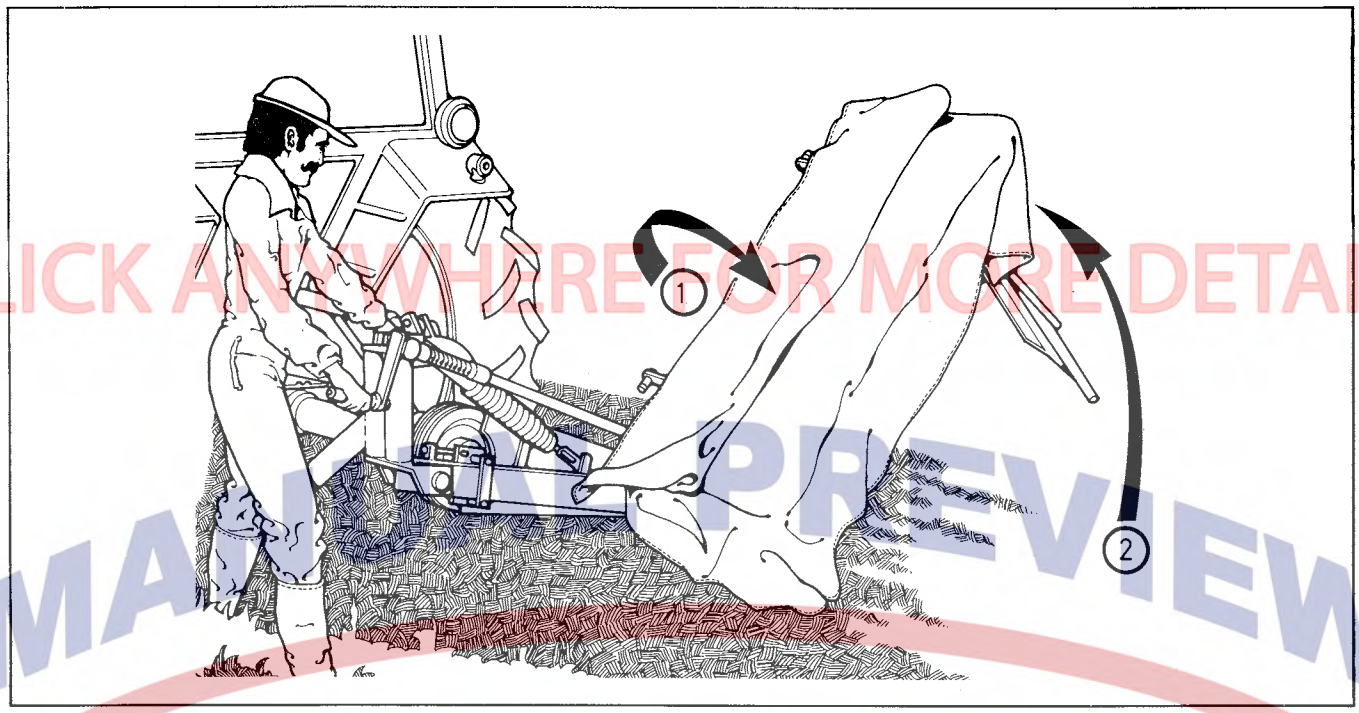


Fig. 18

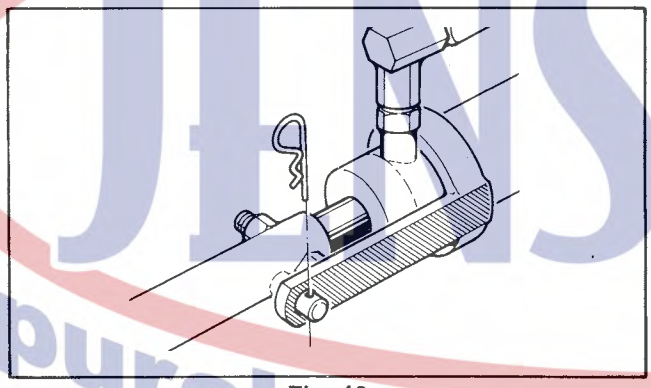


Fig. 19

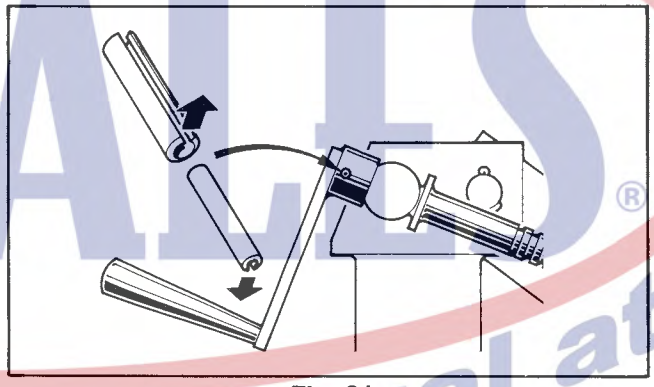


Fig. 21

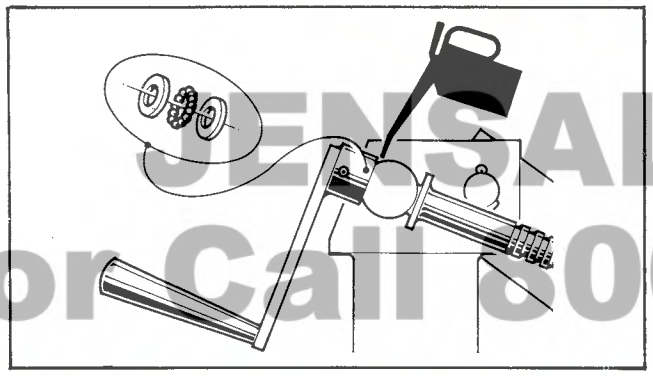


Fig. 20

OPERATING POSITION

First, lower the Mower Cutterbar into the operating position using either the Crank Handle or the Lift Cylinder and parallel to the ground (1a & 1b of Fig. 22). Next, position the Linkage Pins approximately 16 to 18" (400 to 450 mm) from the ground (2 of Fig. 23). Then, turn the tractor toplink to position the Mower Frame vertical (3 of Fig. 23).