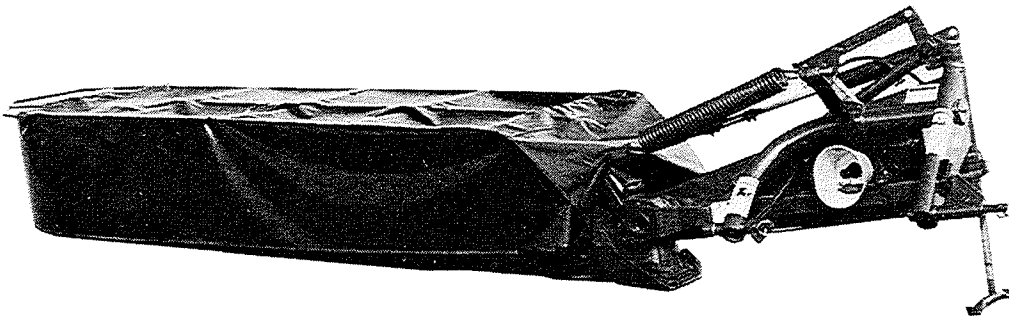


Form No.
906260

162/165

Disc Mowers



OPERATOR'S MANUAL

GEHL[®] COMPANY

Warranty

GEHL COMPANY New Agriculture Equipment

Gehl Company (Inc.), hereinafter referred to as Gehl, warrants new Gehl machinery and attachments (the "Equipment") to be free from defects in material and workmanship at the time of delivery to the original purchaser if properly set up and operated in accordance with the recommendations set forth in Gehl's Operator's Manual.

Gehl's liability for any defect shall be limited to repair or replacement of the Equipment. Gehl's obligation shall terminate twelve (12) months after the delivery of the goods to the original retail purchaser or when the Equipment is first put into use, whichever event occurs first.

This warranty shall not apply to tires which are subject to the warranty of the tire manufacturer. Please contact your Gehl dealer for further information on tire warranties.

This warranty shall not apply to any item of Equipment which shall have been repaired or altered outside the Gehl factory or authorized Gehl dealership or which has been subject to misuse, negligence or accident; neither shall it apply to Equipment which has not been operated in accordance with Gehl's printed instructions or has been operated beyond the Company's recommended machine rated capacity.

EXCLUSION OF WARRANTIES

Except as otherwise expressly stated herein, **Gehl makes no representation or warranty of any kind, express or implied, including merchantability or fitness for particular purpose in respect to the Equipment.** Gehl shall not be liable for incidental or consequential damages for any breach of warranty, including but not limited to inconvenience, rental or replacement equipment, loss of profits or other commercial loss.

No agent, employee or representative of Gehl has any authority to bind Gehl to any affirmation, representation or warranty concerning its machinery and attachments except as specifically set forth herein.

Certain limitations expressed herein are excludable in accordance with provisions of local law. Such provisions shall be deemed struck if such local law is applicable. All other provisions shall continue to apply.

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CHAPTER 1

INTRODUCTION

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 reliable performance from this machine.

We, as a Company, have invested a great deal of time and effort in developing our lines of agricultural and industrial equipment.

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 operating 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 you attempt to operate it. Furthermore, we recommend if this machine is re-sold that this Manual accompany the unit.

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 the spaces provided, as a handy record for quick reference.

The model number and serial number for this unit are on a plate located on a Gusset on the Main Frame.

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

MODEL NO. DM16
SERIAL NO. (Fill In)
GEHL COMPANY WEST BEND, WIS. 53095 U.S.A.

Typical Model & Serial Number Plate

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 *italic* type and introduced by the bold 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 breakdowns or unnecessary damage and, extend your machine's life.

The GEHL Company, in cooperation with the American Society of Agricultural Engineers and the Society of Automotive Engineers, has 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 personal safety is involved!

CHAPTER 2

SPECIFICATIONS

Dimensions are in Inches (Millimeters) Unless Otherwise Noted

Models & Descriptions DM162 & DM165 Disc Mowers.
 Dimensions, Capacities, Power & Weights (see Table provided)

Table of Specifications & Dimensions

Characteristic or Dimension	Model Number	
	162	165
Number of Discs	6	7
Total Number of Knives	12	14
Cutting Width	94 (2388)	110 (2794)
Transport Width	10 (254) Plus Width of Tractor	10 (254) Plus Width of Tractor
Approximate Weight	948 lb (430 kg)	1070 lb (486 kg)
Hitch Type	Category I & II 3-Point	Category II 3-Point
Minimum Power Required	45 hp (33 kw)	50 hp (37 kw)
Drives	540 RPM	540 RPM
Disc Speed	3000 RPM	
Knife Tip Speed	170 mph (275 km/h)	
Hardware	Metric	

Volumetric Oil Capacities:

Main Drive Gearbox1/2 U.S. Pint (.25 Liter)
 Cutterbar
 DM1624-3/4 U.S. Pints (2.25 Liters)
 DM1654-3/4 U.S. Pints (2.25 Liters)

Optional Features (Customer Selected):

80MM Skid Shoe Kit (DM162 & DM165)
 Heavy Duty Disc & Knives, Set of 6 (DM162)
 Inner Swath Kit for 4' (1.2M) Swath (DM162)
 Spring Assist Kit (DM165)

Standard Features:

Hydraulic Lift Cylinder & Hoses
 Flexible Safety Shield
 Disc Protection Plates
 540 RPM Operation ONLY
 Heavy Duty PTO With Overrunning Clutch (DM165)
 Heavy Duty Bearings, Discs and Knives (DM165)

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CHAPTER 3

CHECKLISTS

PRE-DELIVERY

After the Disc Mower has been completely set-up, the following inspections **MUST** be made before delivering it to the Customer. Check off each item after prescribed action is taken.

Check that:

- Disc Mower has been assembled correctly according to instructions in the Set-up & Assembly chapter of this manual.
- The Pressure Relief Valve which is fitted in the side of the Angle Gearbox is free to operate and **NOT** seized up.
- All Grease Fittings have been properly lubricated and that the Gearbox and Cutterbar have been filled to their proper operating level; see the **Lubrication** chapter for specific details.
- All Guards, Shields and Decals are in place and securely attached.
- All fasteners are properly secured.
- All adjustments have been made to comply with settings given in the **Adjustments** chapter.
- Model and Serial Numbers for this unit are recorded in spaces provided on this page and page 2.

Hook the unit up to a 540 RPM tractor and test-run the unit while making sure that proper operation is exhibited by all components.

Check that:

- The Telescoping PTO rotates freely inside the properly Chain Anchored PTO Shields.
- All Blades and Discs are turning freely.
- All mechanisms are operating smoothly.
- All hydraulic Hose connections are **NOT** leaking under pressure and that Lift Mechanism is operating smoothly and properly.

I acknowledge that pre-delivery procedures were performed on this unit as outlined above.

Dealership Name

Dealer Representative's Name

Date Checklist Filled-out

Serial Number

DELIVERY

The following Checklist is an important reminder of valuable information that **MUST** be passed on to the Customer at the time the unit is delivered. Check off each item as you explain it to the Customer.

Check that:

- Give Operator's Manual to the Customer and instruct Customer to be sure to read and completely understand its contents **BEFORE** operating the unit.
- Direct Customer on how to use the **Index** of this manual as a quick page number locating guide.
- Explain and review with Customer the **SAFETY** chapter of this manual.
- Explain that regular lubrication is required for continued proper operation and long life. Review the **Lubrication** chapter of this manual with the Customer, emphasizing that the oil in the Cutterbar and the Gearbox **MUST** be changed after the first 10 hours of operation.
- Explain to the Customer the function of the PTO Slip Clutch on DM165.
- Explain the function of the Cutterbar Breakaway Mechanism.
- Explain the function and value of the PTO Safety Chain and the Flexible Sheet Cutterbar Guard.
- Demonstrate the proper use of the Spring Loaded PTO Locking Couplers.
- Completely fill out the Owner's Registration, including Customer's signature, and return it to the company.

Customer's Signature

Date Delivered
(Dealer's File Copy)

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(To Be removed as Dealer's File Copy)

CHAPTER 3

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- Explain the function of the Cutterbar Breakaway Mechanism.
- Explain the function and value of the PTO Safety Chain and the Flexible Sheet Cutterbar Guard.
- Demonstrate the proper use of the Spring Loaded PTO Locking Couplers.
- Completely fill out the Owner's Registration, including Customer's signature, and return it to the company.

Customer's Signature

Date Delivered

**(NOTE: Pages 5 & 6 Have Been
Removed at Perforation)**



CHAPTER 4

SAFETY



The safety alert symbol above means **ATTENTION! BECOME ALERT! YOUR SAFETY IS INVOLVED!** It stresses an attitude of "HEADS UP" for safety and can be found throughout this operator's manual and on the unit itself.

BEFORE YOU ATTEMPT TO OPERATE THIS EQUIPMENT, READ AND STUDY THE FOLLOWING SAFETY INFORMATION. IN ADDITION, MAKE SURE THAT EVERY INDIVIDUAL WHO OPERATES OR WORKS WITH THIS EQUIPMENT IS FAMILIAR WITH THESE SAFETY PRECAUTIONS.

Our Company **ALWAYS** takes the operator and their safety into consideration when designing machinery and guards exposed moving parts for their protection. However, some areas can **NOT** be guarded or shielded in order to assure proper operation. In addition, this Operator's Manual and Decals, on the machine, warn of further danger and should be read and observed closely.



DANGER

"**DANGER**" indicates an imminently hazardous situation which, if not avoided, will result in death or injury.



WARNING

"**WARNING**" indicates a potentially hazardous situation which, if not avoided, could result in death or injury.



CAUTION

"**CAUTION**" indicates a potentially hazardous situation which, if not avoided, may result in minor or moderate injury. "**CAUTION**" may also alert against unsafe practices.

MANDATORY SAFETY SHUTDOWN PROCEDURE

Work of any type on machinery is always more dangerous when the machine is operating. Therefore, unless otherwise expressly instructed to the contrary, **BEFORE** cleaning, adjusting, lubricating or servicing this unit, the following **MANDATORY SAFETY SHUTDOWN PROCEDURE** should **ALWAYS** be followed:

1. Disengage the tractor PTO.
2. Place the tractor transmission in park to prevent any tractor movement and lower unit until the unit is resting on firm ground.
3. Shut off tractor engine, remove key and take it with you.
4. Wait for all movement to stop.
5. Remove the Telescoping Drive and **ALL** Power connections from the tractor.

ONLY when you have taken these precautions can you be sure it is safe to proceed. Failure to follow the above procedure could lead to death or serious bodily injury!

ADDITIONAL SAFETY REMINDERS

Some photographs, used herein, may show Doors, Guards or Shields open or removed for illustration purposes **ONLY!** **BE SURE** that all Doors, Guards or Shields are in their proper positions and are securely attached **BEFORE** operating this unit!

ALWAYS wear Safety Glasses with Side Shields when striking metal against metal! In addition, it is recommended that a softer (non-chipable) material be used to cushion the blow. Failure to heed could result in serious injury to the eye(s) or other parts of the body!

To ensure continued safe operation, replace damaged or worn-out parts with genuine GEHL service parts, **BEFORE** attempting to operate this equipment.

NEVER use your hands to search for hydraulic fluid leaks; use a piece of cardboard. Escaping fluid under pressure can be invisible and can penetrate the skin and cause serious injury! If any fluid is injected into your skin, see a doctor at once! Injected fluid **MUST BE** surgically removed by a doctor familiar with this type of injury or gangrene may result.



SAFETY



Cont'd

To avoid creating hazardous out-of-balance forces, ALWAYS replace missing, damaged or worn Blades in pairs!

To avoid injury when changing from the "transport" position to "operating" position or "operating" to "transport" position, MAKE SURE that the immediate area is clear of people and obstructions BEFORE changing positions!

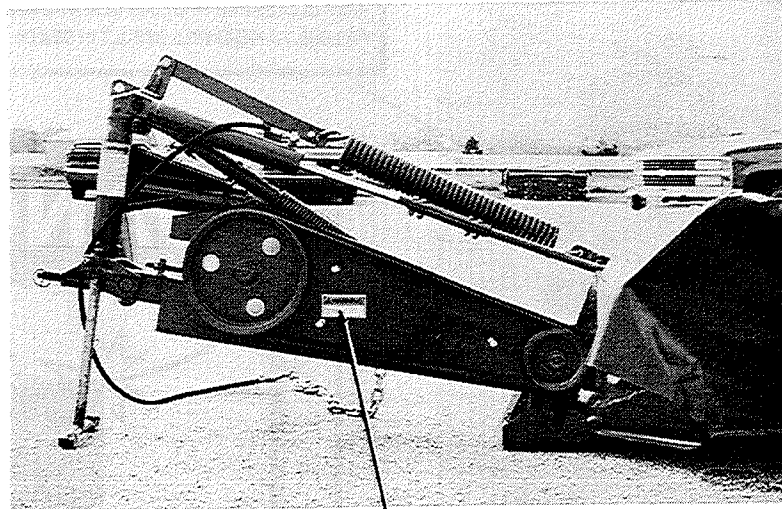
DO NOT get near the unit until the Discs have stopped rotating! This mechanism can continue to operate after the PTO is disengaged!

DO NOT attempt to hand feed or kick any crop or material into this machine!

DO NOT attempt to mow crop in reverse!

DO NOT mow crop until you MAKE SURE that the field to be mowed is free of obstructions!

If an obstruction is encountered during mowing, stop the tractor immediately, disengage the PTO drive, and exercise the MANDATORY SAFETY SHUT-DOWN PROCEDURE! MAKE SURE to check the entire Disc Mower for damage BEFORE resuming operation!



WARNING

ROTATING COMPONENTS CAN CATCH/CUT/PINCH HAND.
KEEP HANDS OUT. CLOSE OR REPLACE GUARD
BEFORE OPERATING MACHINE.
FAILURE TO HEED COULD RESULT IN DEATH OR
SERIOUS INJURY.

093365



SAFETY

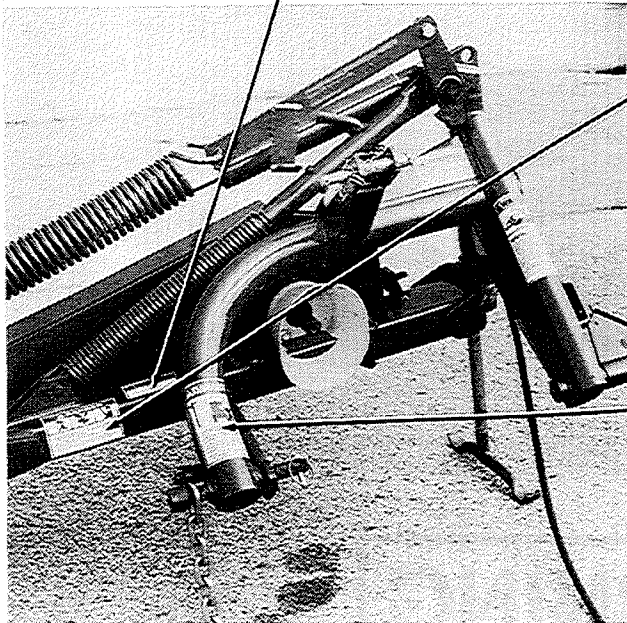
Cont'd



! WARNING

INSTALL TRANSPORT LOCK BEFORE TRANSPORTING MACHINE.
 LOCK LOCATES MACHINE IN PROPER POSITION BEHIND TOWING VEHICLE.
 FAILURE TO HEED COULD RESULT IN DEATH OR SERIOUS INJURY.

093381



! DANGER

--	--	--

ROTATING KNIVES BELOW PROTECTIVE COVER MAY CONTINUE TO ROTATE AFTER POWER IS STOPPED AND CAN CUT OR CATCH HANDS OR FEET AND MAY THROW OBJECTS.
 KEEP OUT WHILE MACHINE IS OPERATING. LOOK AND LISTEN FOR EVIDENCE OF ROTATION.
 KEEP CUTTERBAR SHIELD IN DOWN POSITION AT ALL TIMES.
 FAILURE TO HEED WILL RESULT IN DEATH OR SERIOUS INJURY

125476

! DANGER

MAINTAIN SAFE CLEARANCE FROM ELECTRIC POWER LINES AND AVOID CONTACT WITH ANY ELECTRICALLY CHARGED CONDUCTOR.
 CONTACT WITH ELECTRICAL POWER SOURCE CAN RESULT IN ELECTRICAL SHOCK OR ELECTROCUTION.
 FAILURE TO HEED WILL RESULT IN DEATH OR SERIOUS INJURY.

093202



SAFETY

Cont'd



⚠ DANGER




ROTATING KNIVES BELOW PROTECTIVE COVER MAY CONTINUE TO ROTATE AFTER POWER IS STOPPED AND CAN CUT OR CATCH HANDS OR FEET AND MAY THROW OBJECTS.
 KEEP OUT WHILE MACHINE IS OPERATING. LOOK AND LISTEN FOR EVIDENCE OF ROTATION.
 KEEP CUTTERBAR SHIELD IN DOWN POSITION AT ALL TIMES.
 FAILURE TO HEED WILL RESULT IN DEATH OR SERIOUS INJURY

125476



⚠ DANGER



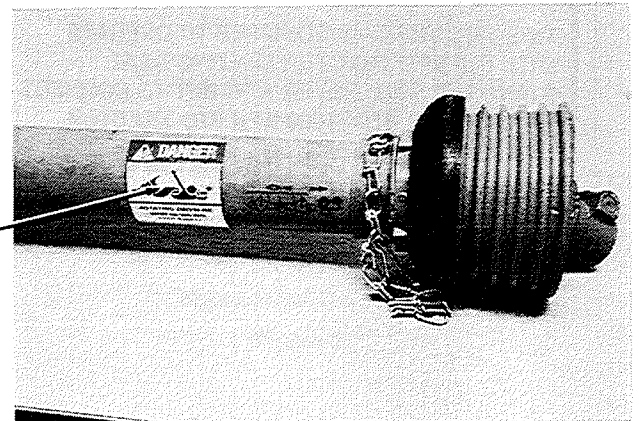
ROTATING DRIVE LINE

DEATH WILL RESULT FROM ENTANGLEMENT
 KEEP PEOPLE AND CLOTHING WELL CLEAR

DO NOT OPERATE WITHOUT:

- DRIVE LINE GUARDS
- INPUT SHAFT GUARDS
- TRACTOR MASTER SHIELD
- U-JOINTS LOCKED TO TRACTOR AND IMPLEMENT SHAFTS

091444

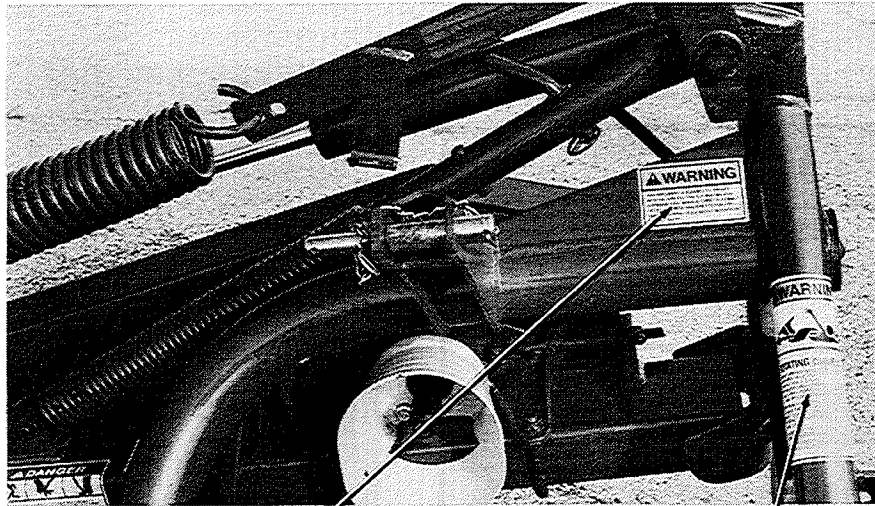




SAFETY



Cont'd



WARNING

THIS IMPLEMENT IS EQUIPPED TO OPERATE WITH 540 RPM TRACTOR MEETING ASAE STANDARD S203. NEVER ATTEMPT TO CONNECT OR OPERATE WITH 1000 RPM PTO TRACTOR.

FAILURE TO HEED COULD RESULT IN DEATH OR SERIOUS INJURY.

093466

WARNING



ROTATING DRIVE LINE

DO NOT OPERATE WITHOUT THE FOLLOWING

- PROPER DRIVE LINE GUARDS
- INPUT SHAFT GUARDS
- TRACTOR MASTER SHIELD
- U-JOINTS LOCKED TO TRACTOR AND IMPLEMENT SHAFTS

FOR YOUR PROTECTION, THIS DRIVE LINE HAS A GUARD THAT ALLOWS THE INTERNAL DRIVE SHAFT TO ROTATE WHILE THE GUARD IS NOT ROTATING. DO NOT POUND BELL TO REMOVE DRIVE TUBE.

U-JOINTS MUST BE PROPERLY ATTACHED AND MAINTAINED.

FAILURE TO HEED COULD RESULT IN DEATH OR SERIOUS INJURY.

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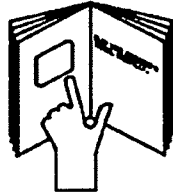


SAFETY



Cont'd

WARNING



THE OWNER IS RESPONSIBLE FOR MAKING INFORMATION AVAILABLE ON THE SAFE USE AND PROPER MAINTENANCE OF THIS MACHINE.

DO NOT START, OPERATE OR WORK ON THIS MACHINE UNTIL YOU HAVE CAREFULLY READ AND UNDERSTAND THE CONTENTS OF THIS MANUAL.

IF YOU HAVE QUESTIONS ON OPERATION, ADJUSTMENT OR MAINTENANCE OF THIS MACHINE OR NEED AN OPERATOR'S MANUAL, CONTACT YOUR GEHL DEALER OR GEHL COMPANY, WEST BEND, WISCONSIN 53095 MODEL AND SERIAL NUMBERS WILL BE REQUIRED.

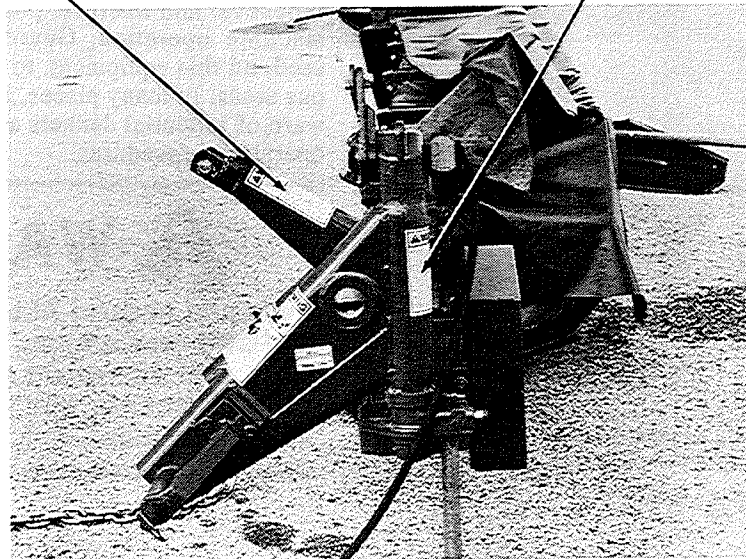
FAILURE TO HEED COULD RESULT IN DEATH OR SERIOUS INJURY.

093367

WARNING

- BEFORE UNCLOGGING, CLEANING, ADJUSTING, LUBRICATING OR SERVICING THE UNIT ALWAYS FOLLOW THE MANDATORY SAFETY SHUT DOWN AS SPECIFIED BY THE OPERATOR'S MANUAL.
- KEEP ALL GUARDS AND SHIELDS IN PLACE.
- BE SURE MACHINE IS CLEAR OF PEOPLE, TOOLS, AND OTHER OBJECTS BEFORE STARTING.
- DO NOT WEAR LOOSE OR BAGGY CLOTHING AROUND THIS MACHINE AND KEEP HANDS, FEET AND CLOTHING AWAY FROM MOVING AND POWER DRIVEN PARTS.
- KEEP CHILDREN AND SPECTATORS OFF AND AWAY FROM MACHINE WHILE IT IS OPERATING.
- KEEP OFF UNIT UNLESS A SPECIFIED OPERATOR'S STATION IS PROVIDED.
- FAILURE TO HEED COULD RESULT IN DEATH OR SERIOUS INJURY.

093373



CHAPTER 5

CONTROLS & SAFETY EQUIPMENT

The Disc Mower is provided with several features for operator safety and convenience.

CAUTION

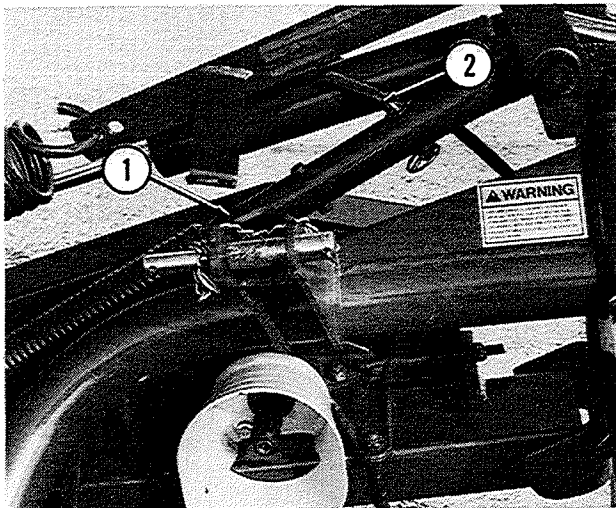
Become familiar with and know how to use ALL Safety Devices and Controls on the Disc Mower, BEFORE attempting to operate this equipment. Know how to STOP Disc Mower operation BEFORE starting it.

TRANSPORT LOCKS (Figs. 5-1 & 5-2)

When transporting the Disc Mower on a public highway or from one field to another, BE SURE to retract the Positioner Cylinder to raise the Cutterbar to the vertical "Transport" position and secure with the Transport Lock provided. Also, BE SURE to lock the Spring Compensating System by placing the Locking Pin in the "Transport" position.

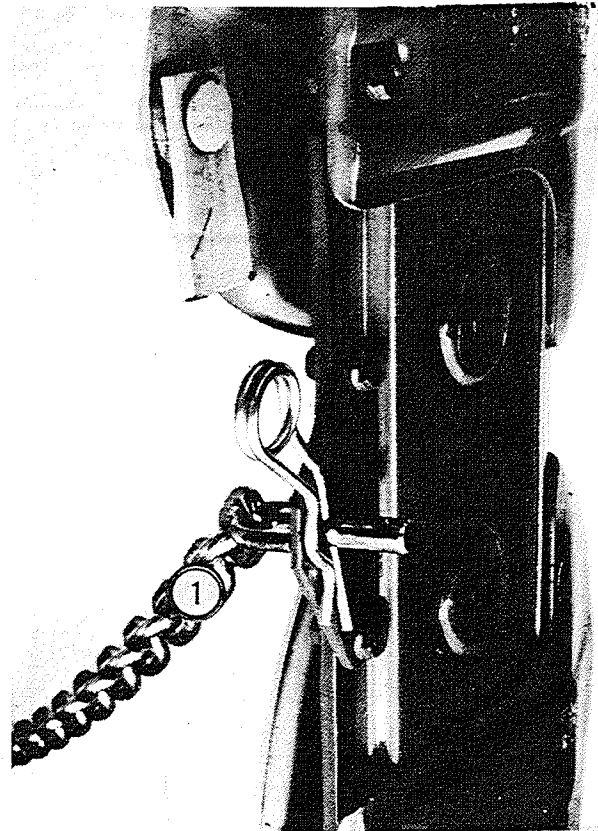
CAUTION

BEFORE transporting the Disc Mower on a public highway or from one field to another, MAKE SURE to properly install the Transport Locks provided.



- 1 - Spring Compensating System Locking Pin "Transport" Position
- 2 - Spring Compensating System Locking Pin in the "Operating" Position (Shown)

Fig. 5-1



- 1 - Cutterbar Transport Lock (3-Point Limiting Chain)

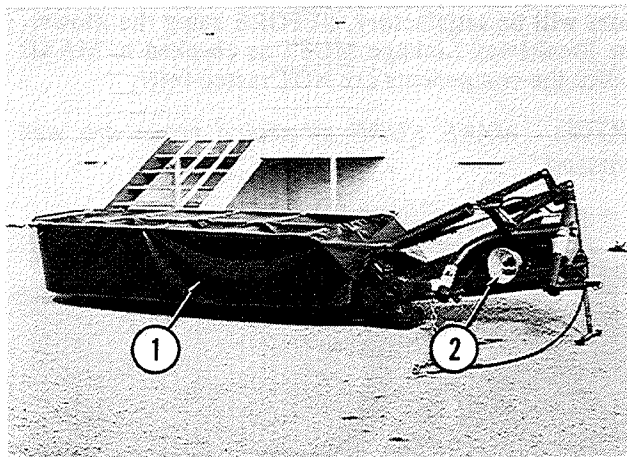
Fig. 5-2

GUARDS & SHIELDS (Fig. 5-3 Through 5-5)

Whenever and wherever possible and without affecting machine operation, Guards and Shields have been used, on this equipment, to protect potentially hazardous areas. In many places, Decals are also provided to warn of potential dangers as well as to display special operating procedures.

WARNING

Read and observe ALL Warnings on the unit, BEFORE operating it. Do NOT attempt to operate this equipment unless ALL factory installed Guards and Shields are properly secured in place.



- 1 - Cutterbar Debris Shield
- 2 - Unit Telescoping Drive Shield

Fig. 5-3

Implement Drive Line Shields (Fig. 5-5)

The Front Telescoping PTO Drive, between the Disc Mower Input Shaft and tractor PTO shaft, is equipped with stationary Shields.

WARNING

BEFORE operating the Disc Mower, **MAKE SURE** that the PTO Guard Tubes are properly chained to the tractor PTO guard and Disc Mower to prevent the Guard Tubes from turning **BEFORE** starting the tractor engine.

Miscellaneous Guards

Various latched and hinged Guards, Shields, Skirts and Covers are provided on both model Disc Mowers to enable access for lubrication, service and adjustment. **MAKE SURE** any damaged or worn Guard, Shield, Skirt or Cover is replaced **BEFORE** attempting to operate the Disc Mower.

CAUTION

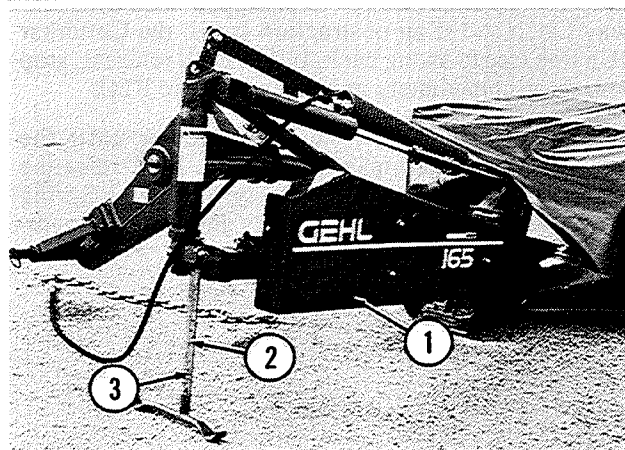
BEFORE proceeding to perform any work on the Mower Conditioner and, **BEFORE** removing any Guards and opening any Covers and Shields, **BE SURE** to exercise the **MANDATORY SAFETY SHUTDOWN PROCEDURE** (page 8). **BE SURE** also to replace **ALL** Guards, Shields and Covers **BEFORE** operating the unit.

TELESCOPING DRIVE COUPLER (See Fig. 5-5)

The Telescoping Drive is equipped with Spring-loaded Locking Devices to positively lock it onto the tractor PTO shaft and the Disc Mower Input Shaft. Depress the Locking Device against the Spring tension and slide the Yoke onto the tractor PTO shaft. Release the Locking Device and move the Yoke ahead or back until the Lock engages into the groove of the PTO shaft. The same process is used to install the other end of the Telescoping Drive Line to Disc Mower Input Shaft.

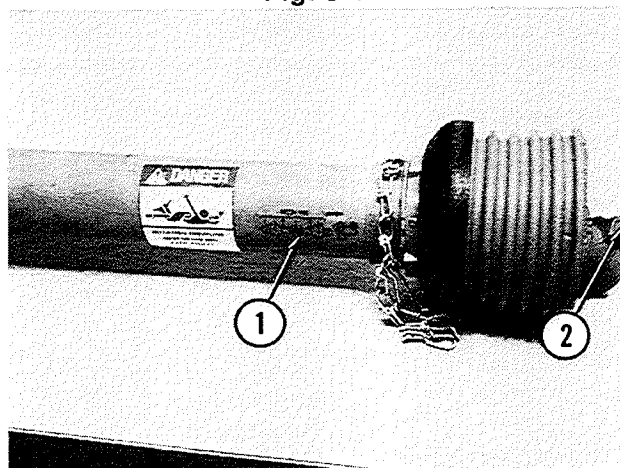
WARNING

BE SURE that the Telescoping PTO Coupler is properly secured to the tractor PTO shaft & unit Input Shaft **BEFORE** starting the tractor engine.



- 1 - Belt Drive Covers
- 2 - Parking Stand in Supporting Position
- 3 - Parking Stand Operating Position Detent

Fig. 5-4



- 1 - Telescoping PTO Drive Shield
- 2 - Telescoping PTO Drive Coupler

Fig. 5-5

PARKING STAND (See Fig. 5-4)

A Parking Stand is furnished with the Disc Mower to support the machine when the tractor is disconnected as well as to facilitate aligning the Disc Mower with the tractor 3-point hitch for hookup. When the Parking Stand is NOT being used to support the Disc Mower, it can be retracted to an "Operating" position.



WARNING

BE SURE the Locking Pin is properly seated into the "Supporting Position" detent in the Parking Stand Leg **BEFORE** disconnecting the Disc Mower from the tractor.

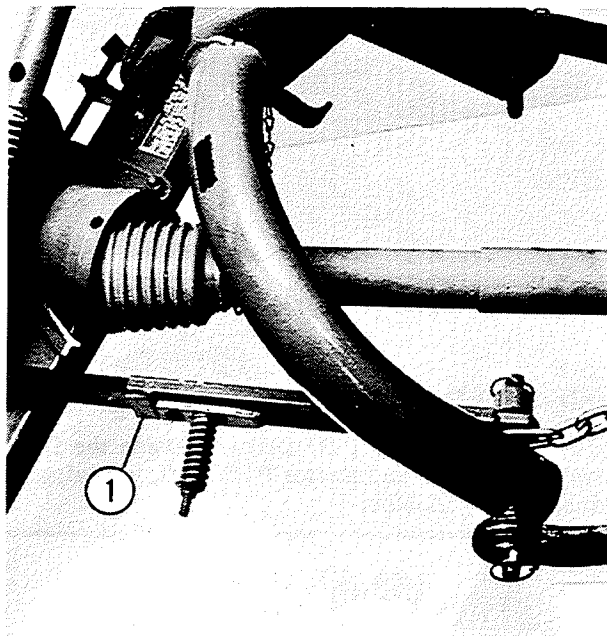
BREAKAWAY LATCH (See Fig. 5-6)

In rough field conditions, the ground speed should be reduced. The Disc Mower is equipped with a Breakaway Latch and if an obstruction is hit, the Cutterbar **MUST** be free to swing back. If the Latch releases, stop the tractor immediately and disengage the PTO.

To reset the Cutterbar, back the Mower until the Cutterbar is in its normal position. Do **NOT** raise the Cutterbar to re-latch the Breakaway. The Latch Spring Washer tension is set at the factory and in most condi-

tions will be satisfactory. **BEFORE** using the Mower, the Breakaway Linkage **MUST** be checked to **MAKE SURE** the components are **NOT** rusted fast.

NOTE: *MAKE SURE* all sliding areas are well greased.



1 - Breakaway Latch in "Released" Position

Fig. 5-6

Notes

CHAPTER 6

OPERATION

CAUTION

BEFORE starting the tractor engine and running the Disc Mower for the first time, review and comply with **ALL SAFETY** recommendations set forth in the **SAFETY** chapter of this manual.

EMERGENCY SHUTDOWN

In an emergency, material clogging the Cutterbar or a foreign object enters the cutting area, **STOP** cutting material **IMMEDIATELY** by disengaging the tractor PTO and stopping forward movement. Then, exercise the **MANDATORY SAFETY SHUTDOWN PROCEDURE** (page 8) **BEFORE** leaving the tractor seat to remedy the problem.

START-UP

CAUTION

BE SURE ALL factory installed Guards and Shields are properly secured in place **BEFORE** starting the tractor engine. Be certain that **NO** people are within 50 feet of the unit when engaging the PTO.

ALWAYS allow several minutes for oil to spread in the Cutterbar **BEFORE** engaging PTO when changing Cutterbar from transport to operating position. To avoid unnecessary strain on the Disc Mower components, **ALWAYS** engage the tractor PTO slowly with the tractor engine at less than half throttle. Bring the unit to PTO speed **BEFORE** starting to cut. Always operate at 540 rpm PTO speed! Attempting to operate at higher than PTO speed could cause excessive vibration, wear and early component failure. In addition, operating the unit at slower than PTO speed will cause poor windrow formation and increase the chances of plugging.

STARTING THE FIELD

After the field has been checked and is known to be free of obstructions, it can be opened by cutting the first swath in a counterclockwise direction. However, it is recommended to make two or three clockwise rounds first to expose any potential hazards around the edge of the field. Then, proceed to cut the backswaths by operating in a counter-clockwise direction around the field. The field can then be divided into sections, as desired.

ADVERSE FIELD CONDITIONS

WARNING

Do NOT use Disc Mower in stony conditions.

Extra care and precautions should be taken when working in rough or difficult terrain. The following adjustments should be made to the Mower in these conditions to minimize the possibility of foreign objects being deflected by the Cutterbar Blades.

1. Tilt the angle of Cutterbar back towards horizontal by adjusting the top link of the tractor 3 point hitch to raise the cutting height of the Knives.

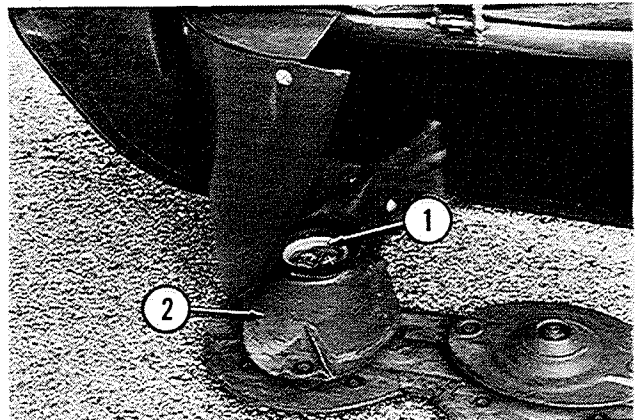
NOTE: *NEVER* tilt the Cutterbar back past horizontal as this will lead to premature blade wear.

2. Use a slower ground speed.
3. Make sure the cutting Knives can pivot if an obstruction is hit.
4. The Plastic Cutterbar Cover will contain debris and foreign objects but may **NOT** stop all such material.

GROUND SPEED (See Fig. 6-1)

The Disc Mower can be operated in a wide range of ground speeds depending on crop conditions and/or terrain. Any change in ground speed should be made by changing tractor gears and **NOT** by increasing or decreasing tractor engine RPM.

NOTE: *NEVER* operate Disc Mower without Crop Divider Caps in place. Replace missing or damaged Caps immediately.



1 - Plastic Debris Cover
2 - Crop Divider Cap

Fig. 6-1

UNPLUGGING

In certain crop conditions, it is possible for the Disc Mower to plug. When plugging occurs, either the belts will slip (DM162) or the Drive Line Clutch (DM165) will slip.

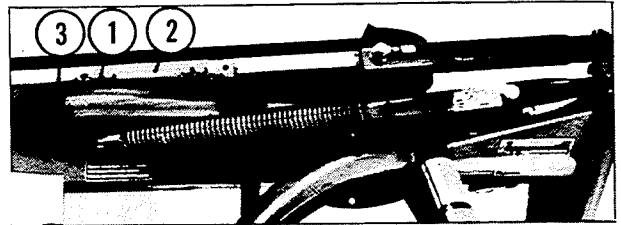
To clear a plugging condition in the area of the Discs:

1. Shut off the PTO.
2. Raise the Mower several inches.
3. Exercise the MANDATORY SAFETY SHUT-DOWN PROCEDURE (page 8) and lock the tractor parking brake.
4. Carefully clear the plug from the Cutterbar area.

If the plugging occurs frequently, refer to the Troubleshooting chapter for additional directives.

HILLY CONDITIONS (See Figs. 6-2 through 6-4)

In order to mow on slopes of more than 10°, it is necessary to remove two bolts, lengthen the Lift Rod and turn the Connecting Plates over as shown.



- 1 - Bolts to be Removed
- 2 - Connecting Plates
- 3 - Lift Rod

Fig. 6-2

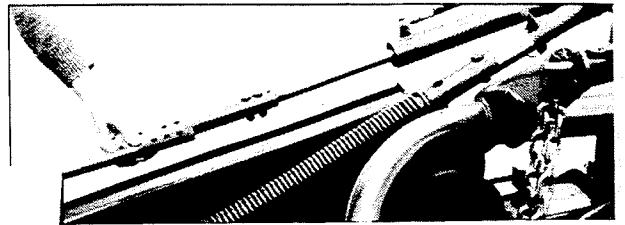
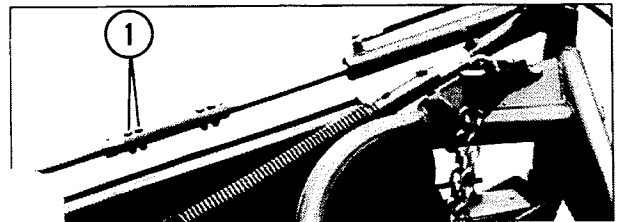


Fig. 6-3: Turning Over Connecting Plates



- 1 - Reinstall Bolts

Fig. 6-4

CHAPTER 7

ADJUSTMENTS

CAUTION

BEFORE proceeding to perform any adjustments on this unit, exercise the **MANDATORY SAFETY SHUTDOWN PROCEDURE** (page 8).

The DM162 and DM165 Disc Mowers have been designed and factory adjusted to function properly under most field operating conditions. However, due to the wide range of operating conditions encountered, some additional readjustments may be required.

CAUTION

BEFORE proceeding to adjust the cutting height, exercise the **MANDATORY SAFETY SHUTDOWN PROCEDURE** (page 8).

CUTTING HEIGHT (Fig. 7-1)

The cutting height can be changed by tilting the angle of the Cutterbar. To change the cutting angle, turn the tractor top link until the desired cutting height is obtained.

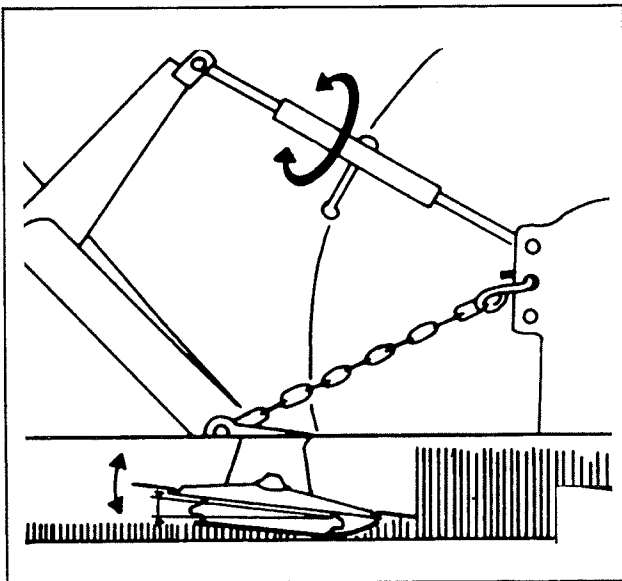


Fig. 7-1: Adjusting Cutting Height

For most conditions, the Skid Shoes should be parallel to the ground. Cutting too close to the ground will cause excessive wear on the Cutterbar Discs and Knives. In

rocky or rough conditions, use a flatter Disc angle to protect the Disc Blades. In down, tangled and lodged crops, use a steeper Disc angle to obtain a clean cut.

CAUTION

If the field being cut is very uneven, reduce the cutting angle.

SKID SHOES

The Skid Shoes are located on the underside of the Cutterbar Frame and have 3 holes for height adjustment.

BREAKAWAY LATCH

In rough field conditions, the ground speed should be reduced. The Mower is equipped with a Breakaway Latch and if an obstruction is hit, the Cutterbar **MUST** be free to swing back. If the Latch releases, stop the tractor immediately and disengage the PTO.

To reset the Cutterbar, back the Mower until the Cutterbar is in its normal position. Do **NOT** raise the Cutterbar to re-latch the Breakaway. The Latch Spring Washer tension is set at the factory and in most conditions will be satisfactory. **BEFORE** using the Mower, the Breakaway Linkage **MUST** be checked to **MAKE SURE** the components are **NOT** rusted fast.

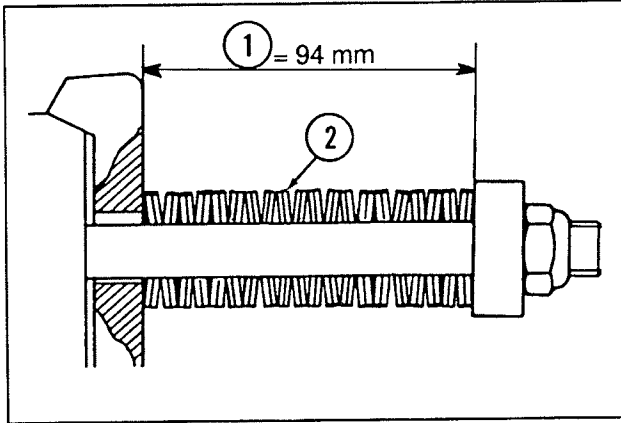
NOTE: *MAKE SURE* all sliding areas are well greased.

Check for any Cutterbar damage if an obstruction is encountered.

If the Cutterbar continues to break away, the Spring Washers can be tightened to increase the breakaway pressure. For both Disc Mowers, the Spring Washer length should be 3-3/4" (94mm)

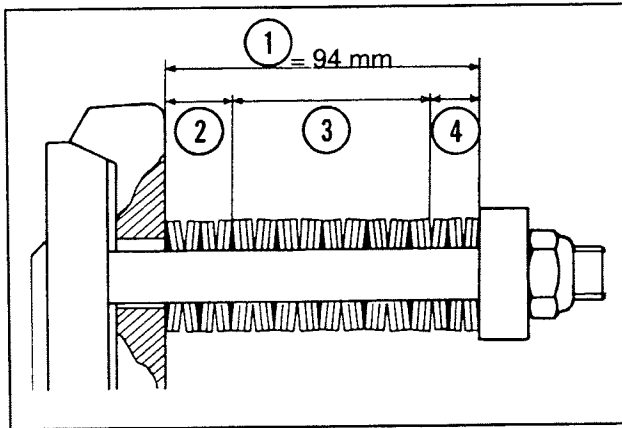
NOTE: *Do NOT* overtighten.

MAKE SURE that the Spring Washers are built up in the formations shown in Figures 7-2 and 7-3.



- 1 - 3-3/4" (94mm)
- 2 - 20 Sets of 2 Spring Washers

Fig. 7-2: DM162



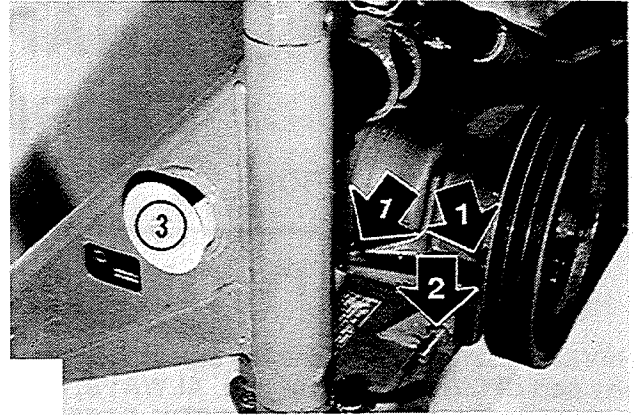
- 1 - 3-3/4" (94mm)
- 2 - 4 Sets of 2 Spring Washers
- 3 - 9 Sets of 3 Spring Washers
- 4 - 3 Sets of 2 Spring Washers

Fig. 7-3: DM165

DRIVE BELT TENSION (See Fig. 7-4)

The Belts **MUST** be properly tensioned at all times to prevent excessive slipping and flopping. Loose Belts will also cause poor cutting and premature failures. Tighten the Belts by loosening the U-Bolt and (2) Nuts that retain the Input Shaft Housing and moving the Housing with the adjustment provided. Tighten Belts until they require a force of 20 lbs. (9 kg) to deflect the belts 3/4" (19mm) at the midpoint. When tightening Input Shaft Housing U-Bolt and Nuts, **MAKE SURE** the Housing is tight against the Main Frame.

NOTE: It is very important that the Belt tension be checked and adjusted properly, especially after the first few hours of use. Replace Belts **ONLY** as a complete set.



- 1 - U-Bolt and Nuts
- 2 - Belt Tension Adjustment
- 3 - Tool Box

Fig. 7-4

SWATH STICK

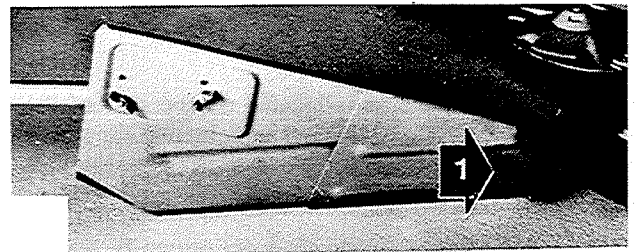
The wooden Swath Stick can be adjusted into 6 positions through a choice of mounting holes. This adjustment is to compensate for working in different crop conditions.

TOOL BOX (See Fig. 7-4)

A Toolbox is fitted into the side of the Main Frame and contains one (1) set of standard replacement Knives, a quantity of Blade Bolts & Nuts, one (1) 8mm allen Key and one (1) 16mm box Wrench.

CROP DIVIDER (See Fig. 7-5)

Tighten the Compression Spring so the Divider can move freely if an obstruction is hit.



- 1 - Compression Spring

Fig. 7-5

CHAPTER 8

LUBRICATION

GENERAL INFORMATION



CAUTION

NEVER attempt to lubricate the machine when any part of the unit is in motion. ALWAYS, BE SURE to exercise the MANDATORY SAFETY SHUTDOWN PROCEDURE (page 8), BEFORE proceeding to lubricate the machine.

It is well to remember that a sufficient amount of oil or grease will prevent excessive part wear and early failure.

GEARBOX (See Fig. 8-1)

A Plug is provided for checking the oil level in the Gearbox when the Cutterbar is in the horizontal position. This Plug is also used as a Gearbox drain when the Cutterbar is in the vertical transport position. The oil should be changed every 200 hours of operation or annually (more often if operated under heavy loads). An Oil Fill Plug is provided on the top of the Gearbox for adding or changing oil. The gearbox holds 1/2 U.S. Pint (.25 L). Use SAE 80 GL4 EP oil.

NOTE: *In some areas SAE 80 GL 4 oil may not be available. A GL 4 or GL 5 grade SAE 80 W 90 oil is an acceptable substitute.*

A Pressure Relief Valve is located on the side of the Gearbox and **MUST** be removed and cleaned each time the Gearbox oil is changed. **MAKE SURE** that the Ball Detent moves freely to relieve pressure.

The Gearbox should be checked occasionally for oil drips and dust accumulation around the Seals. Oil drips or dust accumulation indicate that Seals are leaking. Oil which is tan in color and foams excessively indicates that it has water present.

NOTE: *The oil in the Gearbox **MUST** be changed after the first 10 hours of operation. **MAKE SURE** to also clean and check the Pressure Relief Valve at this time.*

CUTTERBAR (See Fig. 8-2)

To check the oil in the Cutterbar, park the tractor on level ground and place the Cutterbar in the vertical transport position. A Plug is provided for checking the

oil level in the Cutterbar. The oil level is correct when the oil just begins to flow out of the hole. The oil should be changed every 200 hours or annually (more often if operated under heavy loads). The following procedure **MUST** be followed:

1. Operate the Disc Mower for 10 minutes so that the Cutterbar reaches operating temperature.
2. Raise the Disc Mower to the vertical transport position and engage the Transport Locks.
3. Exercise the MANDATORY SAFETY SHUTDOWN PROCEDURE (page 8).
4. Remove the Magnetic Drain Plug and the Filler Plug, allowing the oil to drain completely. Wait for the dripping to stop.
5. Reinstall the Magnetic Drain Plug. **MAKE SURE** to clean the Magnetic Drain Plug thoroughly before installation.
6. Refill the Cutterbar with SAE 80 GL 4 oil (DM162, 6 Disc Cutterbar, 4-3/4 pt, 2.25 L) (DM165, 7 Disc Cutterbar, 4-3/4 pt, 2.25 L) and reinstall the Filler Plug.

NOTE: *In some areas SAE 80 GL 4 oil may not be available. A GL 4 or GL 5 grade SAE 80 W 90 oil is an acceptable substitute.*

NOTE: *The oil in the Cutterbar **MUST** be changed after the first 10 hours of operation.*

The Cutterbar should be checked daily for oil drips and dust accumulation around the Seals. Oil drips or dust accumulation indicate that Seals are leaking. Oil which is tan in color and foams excessively indicates that it has water present.

NOTE: *There will be signs of oil at the Overflow Plug. A small amount of oil in this location should be considered normal.*

NOTE: *If the Cutterbar is to be operated at angles in excess of +/- 20° off of horizontal for long periods of time, the quantity of Cutterbar oil should be reduced by 25%. If the quantity of oil is reduced, the Cutterbar **MUST** be operated in a horizontal position for a few minutes every 1/2 hour.*

SEALED BEARINGS

Sealed Bearings are used throughout the machine to provide trouble-free operation, with a minimum of maintenance and lubrication. These Sealed Bearings are lubricated for life and relubrication is NOT required, NOR should it be attempted.

OILING

Oil all Linkage and Pivot Points every 50 hours of operation using a good grade of motor oil.

GREASING (See Fig. 8-3)

NOTE: Grease all fittings on a prescribed basis, at the intervals of operation listed, before and after storing the unit and as otherwise listed. Use a good grade of lithium base grease.

Wipe dirt from the Fittings BEFORE greasing to prevent any dirt from being forced into the Fittings. Replace any missing Fittings, when noted. To minimize dirt build-up, avoid excessive greasing.

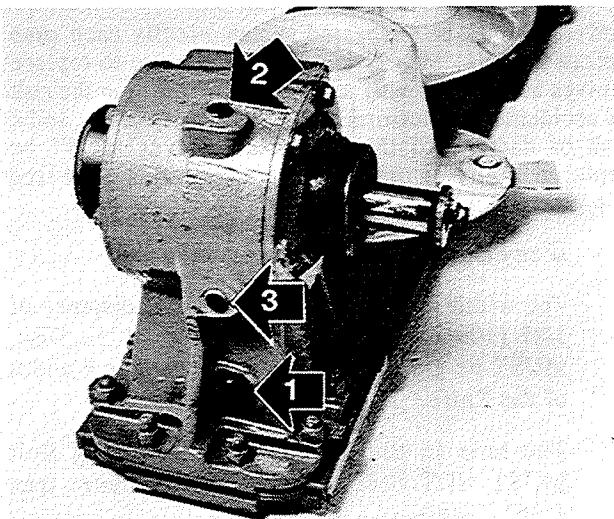
Grease Fitting Locations

Grease Every 8 hours (or Daily)

1. Telescoping PTO Drive Crosses (2 Places)
2. Overrunning Clutch (1 Place)(DM165 Only, NOT Shown)

Grease Every 20 hours (or twice Weekly)

3. Inner Telescoping PTO Section



- 1 - Pressure Relief Valve
- 2 - Oil Fill Plug
- 3 - Check Oil Level Plug (Cutterbar Horizontal)

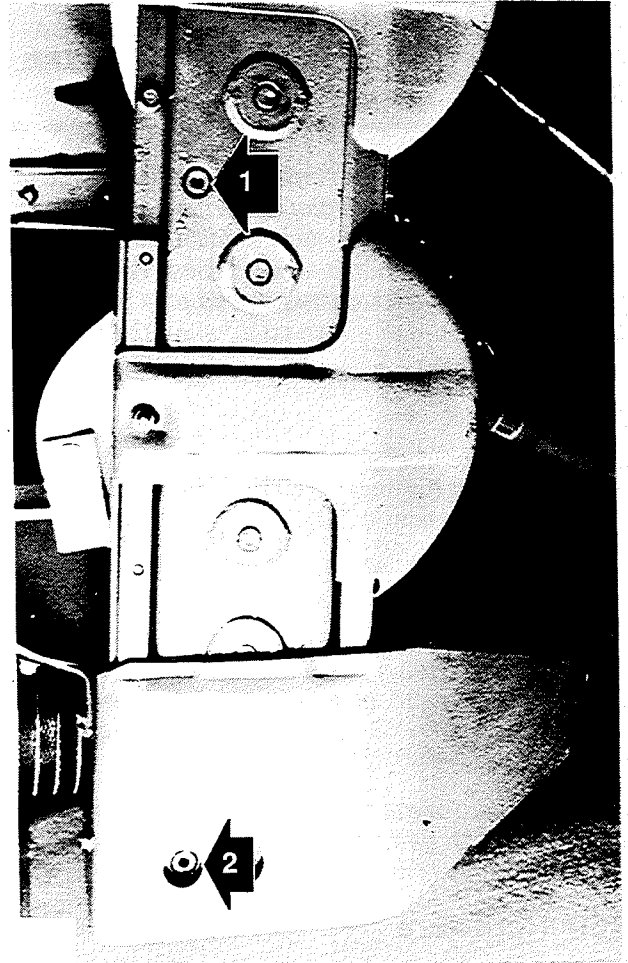
Fig. 8-1

Grease Every 40 hours (or Weekly)

4. Telescoping PTO Guards (2 Places)
5. Spring Loaded PTO Locking Couplers

Grease as Required

6. Grease the inside of the Outer Guard Tube in winter to prevent freezing, as weather conditions demand.
7. All Break-away components



- 1 - Check Oil Level & Fill Plug (Cutterbar Vertical)
- 2 - Magnetic Drain Plug

Fig. 8-2

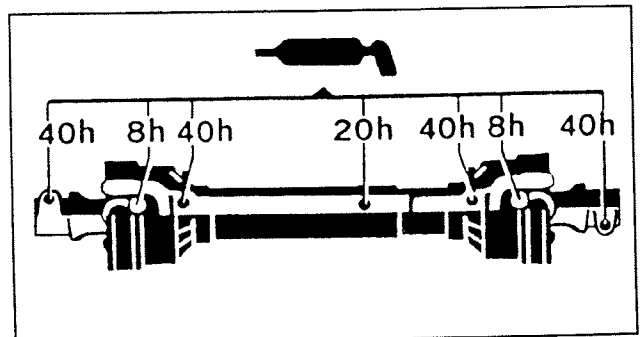


Fig. 8-3

CHAPTER 9

SERVICE

GENERAL INFORMATION



CAUTION

BEFORE proceeding to perform all Service routines on this unit, exercise the **MANDATORY SAFETY SHUTDOWN PROCEDURE** (page 8).

NOTE: *The following information is also referred to in the Troubleshooting chapter of this manual. It should be understood that all services, detailed in this chapter, are Owner-Operator responsibilities. Where indicated, certain service routines should only be carried out by (or under the direction of) an authorized GEHL equipment dealer.*

CUTTERBAR

All service to the internal parts of the Cutterbar **MUST** be carried out by (or under the direction of) an authorized GEHL equipment dealer.

DISCS, KNIVES AND HARDWARE

Discs, Knives, Bolts and Nuts are fabricated from high quality steel and undergo a special heat treatment process to ensure a tough wear resistance and hence a longer life. To avoid creating hazardous out-of-balance forces, **ALWAYS** replace missing, damaged or worn Blades and Hardware in pairs!

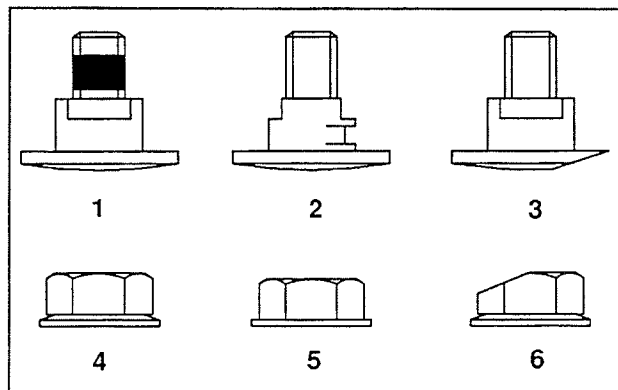
NOTE: *Worn or damaged items **MUST** be replaced immediately with genuine GEHL Service Parts otherwise all warranty is rendered null and void.*

Knife Hardware

If any of the following conditions exist, the Blade retaining hardware **MUST** be replaced. See Fig. 9-1 for details.

1. When a visible deformation is found.
2. When the locking compound on the Bolt threads has worn away or if the locking compound has become inoperational due to contamination by water, oil or dirt.
3. When wear on the Bolt Head reaches the contact area of the Knife.
4. When a wear groove deeper than 1/8" (3mm) has formed on the bearing shoulder of the Knife Bolt.

5. When the Contact Washer of the Knife Retaining Nut has lost its elasticity or the Washer becomes loose from the Nut.
6. When wear on the Nut reaches a depth equal to half of the height of the Nut.



- 1 - Acceptable Bolt with Locking Compound Intact
- 2 - Unacceptable Bolt with Wear Groove
- 3 - Unacceptable Bolt with Edge Wear
- 4 - Acceptable Nut with Contact Washer
- 5 - Unacceptable Nut with Contact Washer Crushed
- 6 - Unacceptable Nut with Edge Wear

Fig. 9-1

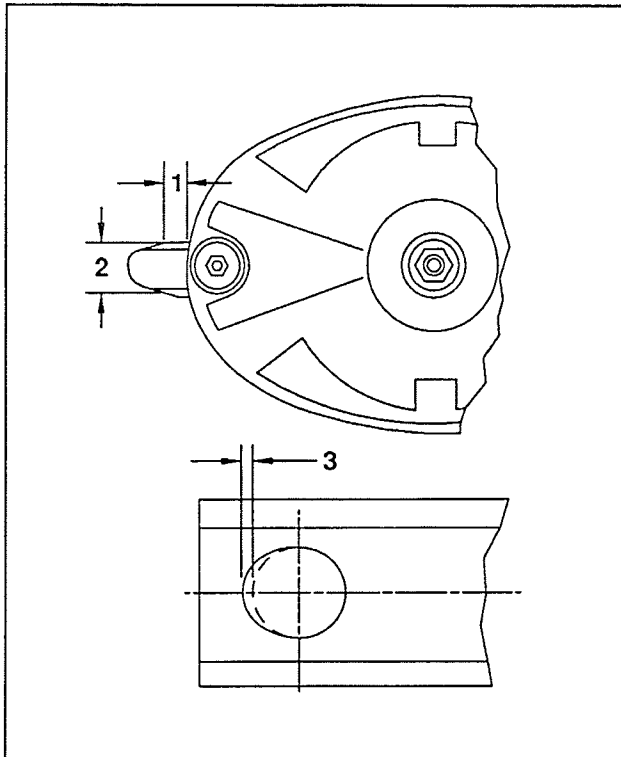
Removal & Replacement of Blades (See Figs. 9-2 & 9-3)

Knives should be inspected systematically each time before the Disc Mower is operated. Failure to replace Knives as required will result in an increase in the risk of accidents, a deterioration in the quality of cut and a risk of damage to the Cutterbar. Knives **MUST** be replaced if any of the following conditions exist (see Fig. 9-2):

1. If any sign of cracking is found.
2. The width of a Knife, measured at a distance of 3/8" (10mm) away from the edge of the Disc, **MUST** be greater than 3/4 of the nominal width of the Knife.
3. The hole in the Knife for the retaining Bolt **MUST NOT** become worn oval by more than 1/16" (2mm).

When replacing Knives on the Disc Mower, the following steps **MUST** be followed:

1. Clean around each self-locking Nut to be removed.
2. Remove self-locking Nuts with a socket.



- 1 - 3/8" (10mm)
- 2 - MUST Be Greater Than 3/4 of Width of Knife Here
- 3 - Maximum Out-of-round 1/16" (2mm)

Fig. 9-2

3. Fit new Blades or turn Blades to use second cutting edge. MAKE SURE that each Blade is positioned with the small arrow pointing in the direction of rotation of the Disc that the Blade is to be fitted to.
4. MAKE SURE the Bolt is in good condition BEFORE reusing.

NOTE: To ensure proper Blade retention, the retaining hardware MUST be replaced after having been removed 5 times.



DANGER

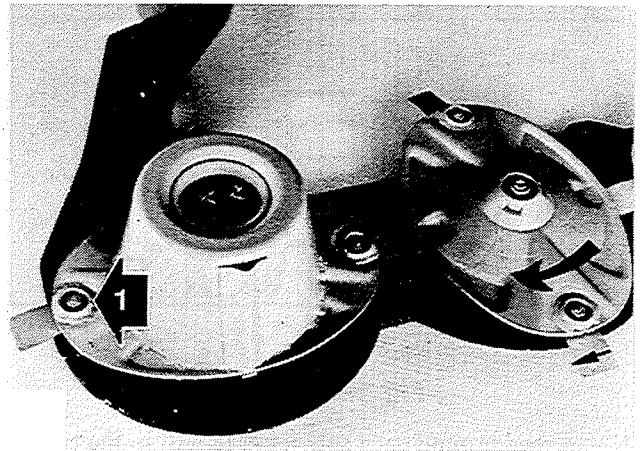
Use ONLY genuine GEHL Service Parts.

5. Torque Locknuts to 55 ft lbs (75 Nm) on DM162 and 90 ft lbs (122 Nm) on DM165.



CAUTION

ALWAYS replace damaged Blades. NEVER attempt to straighten a bent Blade.



1 - Blade Lock Nut

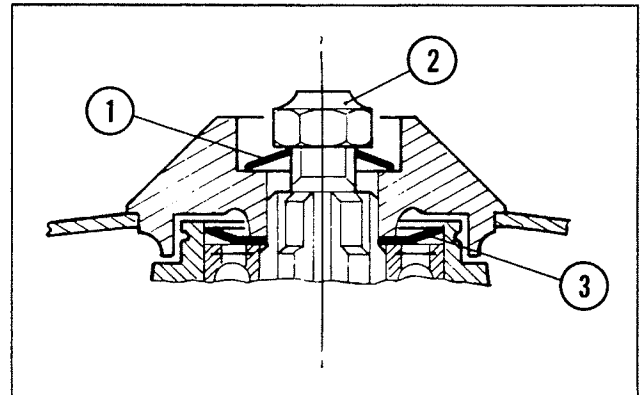
Fig. 9-3

Disc Removal & Replacement (See Figs. 9-4 & 9-5)

The oval Discs are fitted on splined Shafts and MUST be positioned at right angles to each other. In this position, contact between the Discs is avoided. Should the ribbed faces on the Disc become excessively worn, fit the Disc to an opposite rotating Pinion Gear to utilize the second Disc Face. DO NOT weld metal onto the Disc as this will create out-of-balance forces.

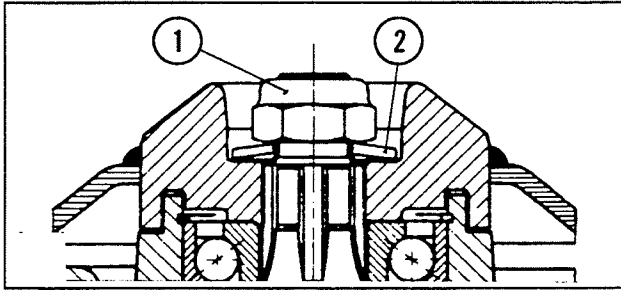
During reassembly, MAKE SURE to place the high part, or crown, of the Spring Washer facing up.

NOTE: On DM162, MAKE SURE the Dust Seal Washer is properly placed BEFORE installing the Disc.



- 1 - Crowned Spring Washer
- 2 - Lock Nut
- 3 - Dust Seal Washer

Fig. 9-4: DM162



- 1 - Lock Nut
2 - Crowned Spring Washer

Fig. 9-5: DM165

1. Clean around each self-locking Nut in the center of the Disc.
2. Place a block of wood between the Discs so the Discs will NOT rotate when removing the Lock-nuts.
3. Remove the main Self-locking Nut and Conical Spring Washer.

To remove the cone-shaped outer Right Disc or inner Left Disc, remove the Plastic Plug on top of the Cone and remove the Self-locking Nut and Conical Spring Washer using a socket and extension.

4. Remove the Disc. If the Disc is tight, pry up with two levers at opposite sides of the Disc.
5. Replace the Disc **MAKING SURE** that it is rotated 90° from the next Disc and that each Blade is positioned with the small arrow pointing in the direction of rotation of the Disc. Secure with the Self-locking Nut and Conical Spring Washer **MAKING SURE** the Conical Spring Washer is positioned with the crown up. Torque to 130 ft lbs (176 Nm) on DM162 and 220 ft lbs (298 Nm) on DM165.

NOTE: *MAKE SURE* to replace the Plastic Plug on the cone-shaped inner and outer Disc or dirt will build up inside the cone and cause an out-of-balance condition.

NOTE: *If the Disc show signs of wear after a considerable amount of acreage has been worked, it is advisable to replace the Disc. When the Left Disc needs replacement, contact your dealer's service department for assistance.*

TELESCOPING DRIVES

NOTE: *For safety reasons, service on the Telescoping PTO Drives should ONLY be performed by (or under the direction of) an authorized GEHL equipment dealer.*

Over time, the Telescoping Drive Universal Joints may become worn and noisy and require service. As necessary, remove the Drive from the Disc Mower and take it to your dealer.

HYDRAULIC SYSTEM



WARNING

BE SURE there is **NO** pressure in the lines when working on the hydraulic system. Hydraulic fluid, under pressure, can penetrate the skin. If injured by escaping fluid, see a doctor at once. Injected fluid **MUST** Be surgically removed by a doctor familiar with this type of injury or gangrene may result.

Notes

CHAPTER 10

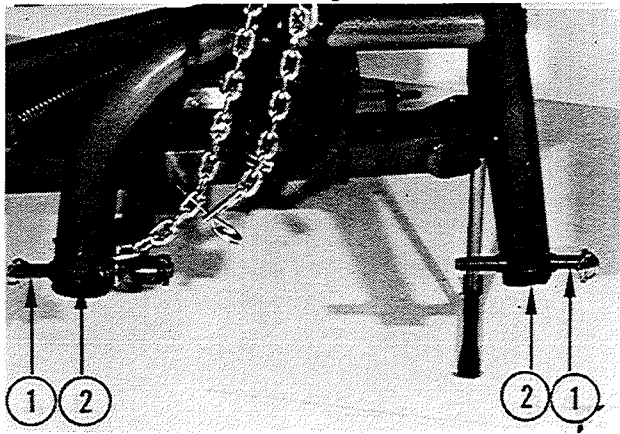
PREPARING FOR FIELD OPERATION

TRACTOR & HITCH REQUIREMENTS (Fig. 10-1)

The tractor, to be used to operate a Disc Mower, **MUST** have:

1. A 540 RPM PTO.
2. A minimum of 45 hp for the DM162 and 50 hp for the DM165.
3. Category I or II 3-point hitch & PTO for the DM162 and Category II 3-point hitch & PTO for the DM165.
4. One remote hydraulic output capable of powering a single-acting cylinder.

Depending on the size of the tractor and the wheel spacing, it may be necessary to turn the Hitch Pins on the DM162 Mower. To turn the Hitch Pins, remove the retaining Roll Pins, remove the Hitch Pins from the Frame, reverse the Hitch Pins, reinstall to the Frame and secure with the retaining Roll Pins.



1 - Hitch Pins
2 - Roll Pins

Fig. 10-1

ATTACHING MOWER TO TRACTOR (Figs. 10-2 Through 10-7)

If the tractor tire centers are 52" (1.32m), position the lower links as shown in figure 10-2.

If the tractor tire centers are 59" (1.50m), position the lower links as shown in figure 10-3.

If the tractor tire centers are 65" (1.65m), position the lower links as shown in figure 10-4.

NOTE: *MAKE SURE* the Stop Chain is properly installed for each mounting location.

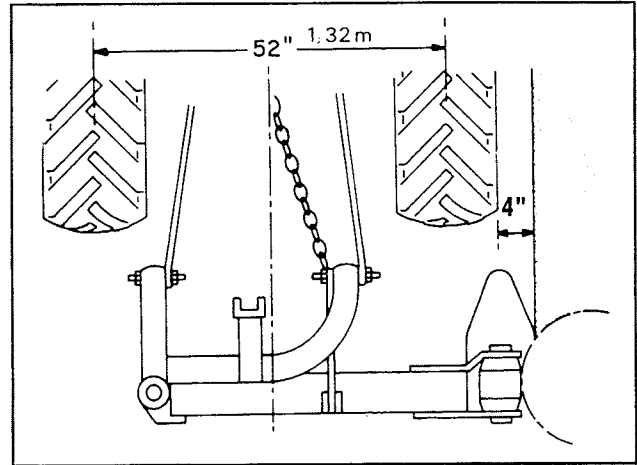


Fig. 10-2

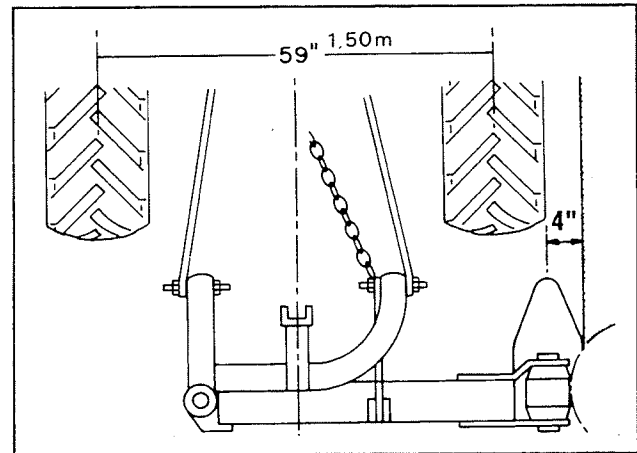


Fig. 10-3

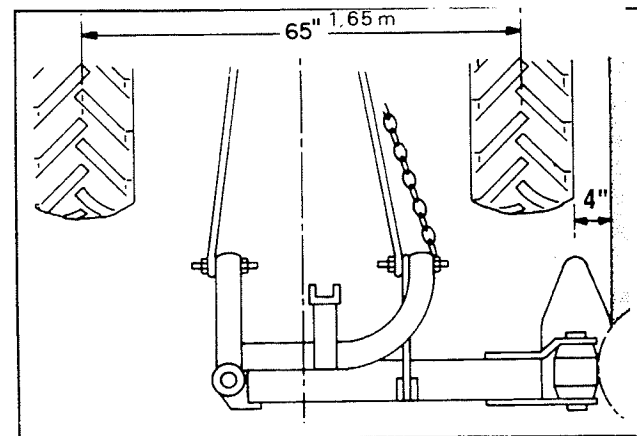
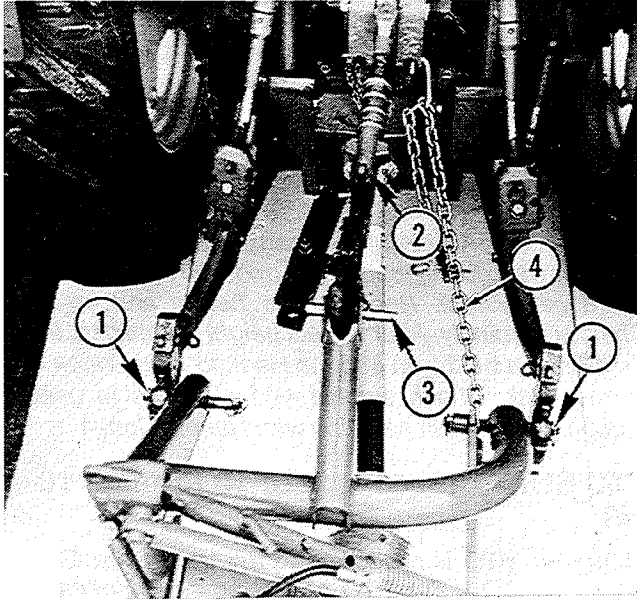


Fig. 10-4

1. Clean all paint from the Hitch Pins.
2. Back the tractor to the Mower and attach the lower links to the Hitch Pins. Secure links with Lynch Pins provided. See Fig. 10-5 for details.



- 1 - Lynch Pins
- 2 - Tractor top link
- 3 - Top Link Pin
- 4 - Stop Chain

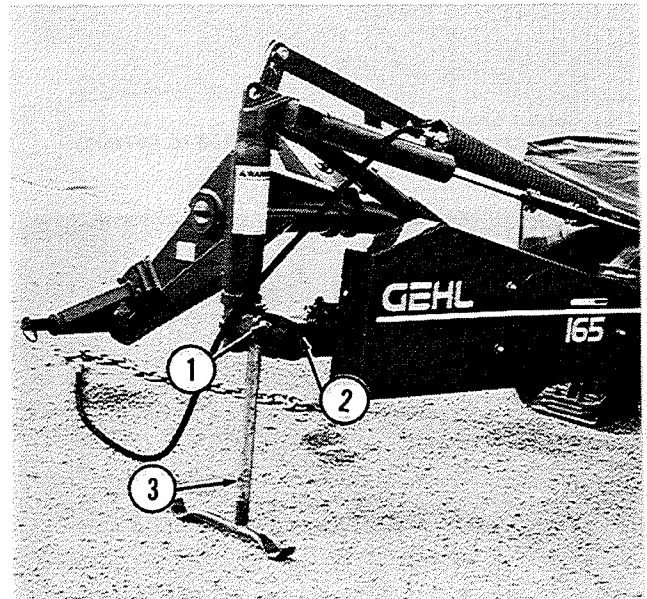
Fig. 10-5: DM162 Shown

3. Attach the top link to the Mower. Secure the link with the Pin Provided. Two positions are available on the Top Link Retaining Pin, depending on the diameter of the ball joint, to secure the link to the Mower. See Fig. 10-6 for details.

NOTE: The larger diameter of the Top Link Retaining Pin **MUST** always be used on DM165.

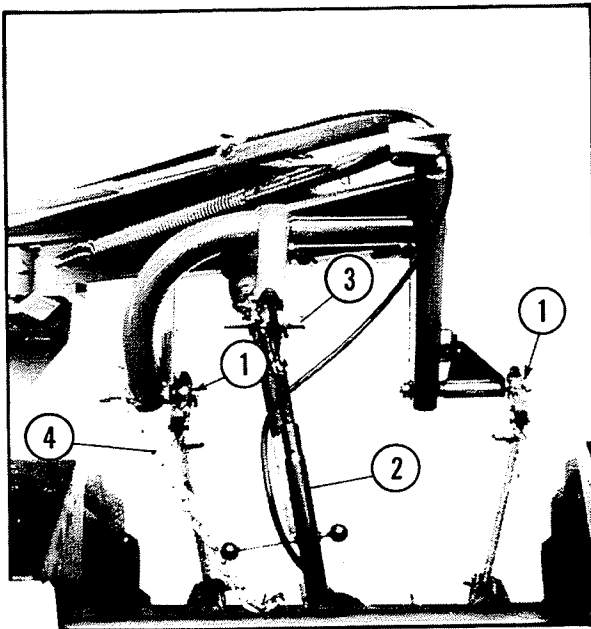
4. Connect the hydraulic Lift Cylinder Hose to the tractor.
5. Raise the Mower with the tractor 3-point hitch system. Depress the Pin and raise the Mower Parking Stand retaining the Stand in the upper position with the Spring Pin provided. Raise the Cutterbar in and out of the transport position several times to purge the air out of the system.

NOTE: ALWAYS position the Stand in the upper position while transporting or operating the Disc Mower.



- 1 - Spring Retaining Pin
- 2 - Parking Stand
- 3 - Retaining Pin Notch for Operating Position

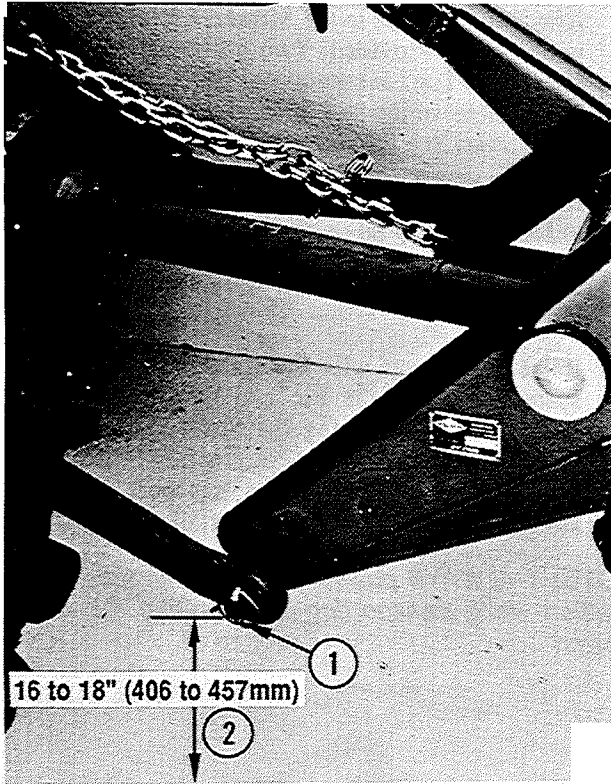
Fig. 10-7



- 1 - Lynch Pins
- 2 - Tractor top link
- 3 - Top Link Pin
- 4 - Stop Chain

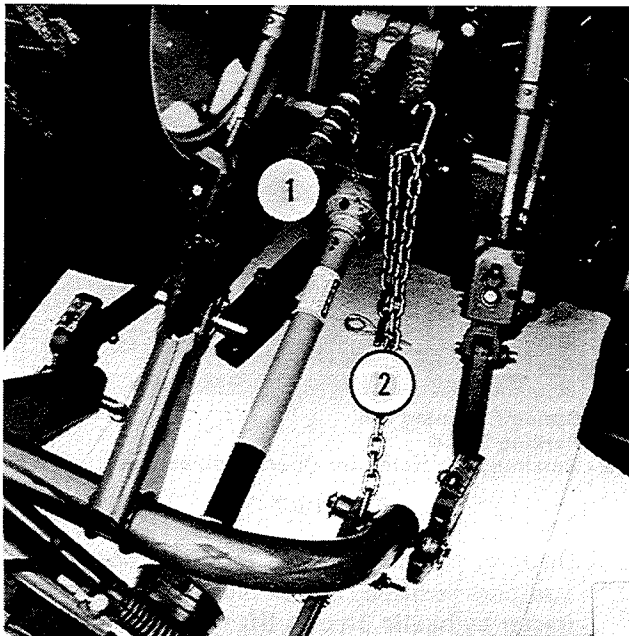
Fig. 10-6: DM165 Shown

6. On level ground and with the Cutterbar in the transport position, adjust the Mower with the tractor hydraulic 3-point lift system so that the centers of the lower Hitch Pins are at a height of 16 to 18" (406 to 457mm) as shown in Figure 10-8.



1 - Center of Lower Hitch Pin
2 - Adjustment Height of 16 to 18" (406 to 457mm)

Fig. 10-8



1 - Tractor Top Link
2 - Disc Mower Lift Chain

Fig. 10-9

7. Referring to Figure 10-9, attach the Chain to the tractor clevis with the Chain Hook. If the tractor does not have a hole for the Hook, a long bolt can be used to attach the top link and the Hook can be attached to the bolt. Completely lower the tractor linkage. The height adjustment is correct when:
 - a. the Cutterbar is resting on the ground.
 - b. the Chain is tight.
 - c. the distance between the Hitch Pins and the ground is 16 to 18" (406 to 457mm).

NOTE: The Chain MUST carry the weight of the Disc Mower during operation and NOT the tractor hydraulic system. Recheck the height and adjust Chain accordingly. After correct height is obtained, the Roll Pin can be driven into the Hook to retain Hook in correct Link. Attach surplus end of Chain to used portion of Lift Chain securing with Hairpin Cotter.

PTO SHAFT (See Figs. 10-10 through 10-16)

Before the PTO is connected to the tractor, the PTO MUST be sized. The PTO MUST be long enough to prevent separation during operation of the Break-away system and short enough to prevent bottoming out. The Tubes MUST overlap a minimum of 4" (102mm) when in their normal working position.



CAUTION

Failure to properly size the PTO WILL result in premature failure.

1. Separate the two PTO half shafts. Connect one end to the tractor and the other half to the Mower.

Raise or lower the Mower to find the position where the PTO Shaft would be in its shortest position. Hold the half shafts side by side and mark off the length so that there is a 3/8" (10mm) gap between the end of the Shafts and the Yokes. See Figure 10-10 for Details.

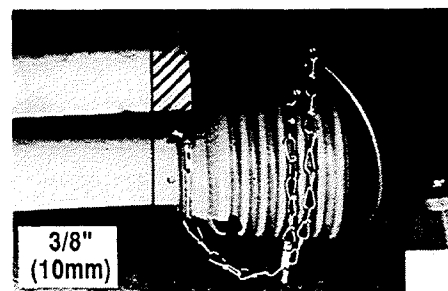


Fig. 10-10

2. Cut off the ends of the Guard Tubes. See Figure 10-11 for Details.

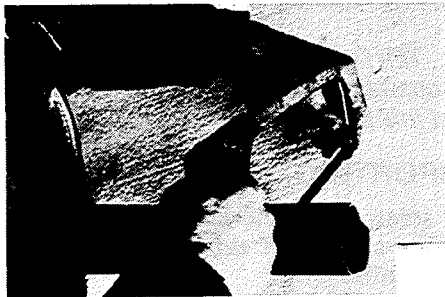


Fig. 10-11

3. Shorten drive tubes by same amount Guard Tubes were shortened. See Figure 10-12 for Details.

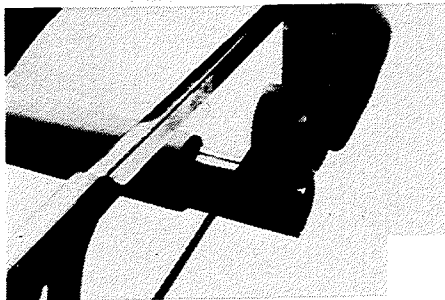


Fig. 10-12

4. De-burr Tubes and MAKE SURE to clean out all chips and filings. See Figure 10-13 for Details.



Fig. 10-13

5. Apply grease to the inside of the outer telescoping Tube. See Figure 10-14 for Details.

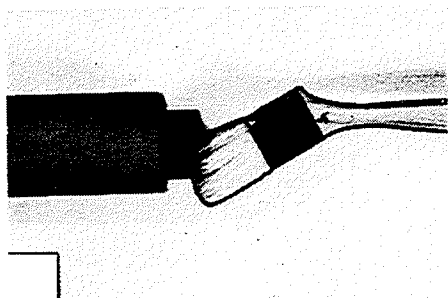


Fig. 10-14

6. Reassemble the two PTO half Shafts and connect the complete PTO assembly to the tractor PTO and the Disc Mower Input Shaft. MAKE SURE to connect the free end of the Safety Chains to a fixed point on the tractor and Disc Mower. See Figure 10-15 for Details.

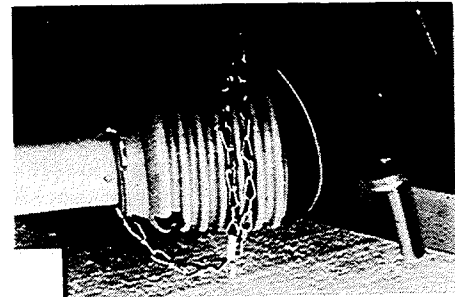


Fig. 10-15

NOTE: The angle of the Telescoping PTO MUST NOT exceed 30°. BE SURE to also disengage the PTO when the tractor 3-point hitch is raised to the maximum height. See Figure 10-16 for Details.

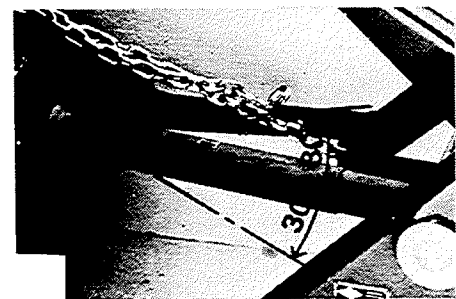


Fig. 10-16



WARNING

BEFORE operating the Disc Mower, MAKE SURE that the PTO Guard Tubes are properly chained to the tractor PTO guard and Disc Mower to prevent the Guard Tubes from turning BEFORE starting the tractor engine.

BREAK-IN

Before starting to cut and condition, it is recommended that the Disc Mower be broken-in by running it empty for approximately 30 minutes. This initial run-in MUST be done with the Cutterbar in the cutting position.

The Break-in should consist of a twenty five minute and a five minute running period. First, run the unit for twenty five minutes with the tractor engine close to idle RPM. Next, stop the unit and exercise the **MANDATORY SAFETY SHUTDOWN PROCEDURE** (page 8) before leaving the tractor seat to reinspect the unit. After inspection is complete, reconnect the PTO, restart the tractor, engage the PTO near engine idle speed and gradually increase the speed to proper operating RPM and continue running the machine for 5 minutes. After another inspection, the Disc Mower is ready for the field.

NOTE: *The oil in the Cutterbar and the Gearbox MUST be changed after 10 hours of operation. For details, see the Lubrication chapter of this Manual.*

NOTE: *The Drive Belts MUST be adjusted after 10 hours of operation. For details, see the Adjustments chapter of this Manual.*

TRANSPORTING

BEFORE transporting the Disc Mower, refer to the Transporting chapter of this manual for additional transporting information.

CHAPTER 11

TRANSPORTING

TRANSPORT LOCKS (Figs. 11-1 & 11-2)

To transport the Mower on the highway or from one field to another, proceed with the following:

1. Raise Mower with tractor 3-point hitch system and raise Parking Stand to transport position.
2. Fold back the vertical sides of the plastic Cutterbar Safety Guard onto the top of the Guard.
3. Fold back the front portion of Cutterbar Safety Guard and secure with the Belts provided.
4. Raise the Cutterbar to its vertical position using the Hydraulic Lift Cylinder.
5. Remove the Chain from the tractor upper link and install on the Cutterbar.
6. Locate Spring Compensating System Locking Pin to transport position.

To place the Cutterbar in the operating position, execute the above steps in the reverse order.



CAUTION

ALWAYS transport the Disc Mower with the Chain connected between the Cutterbar and the tractor 3 point frame.



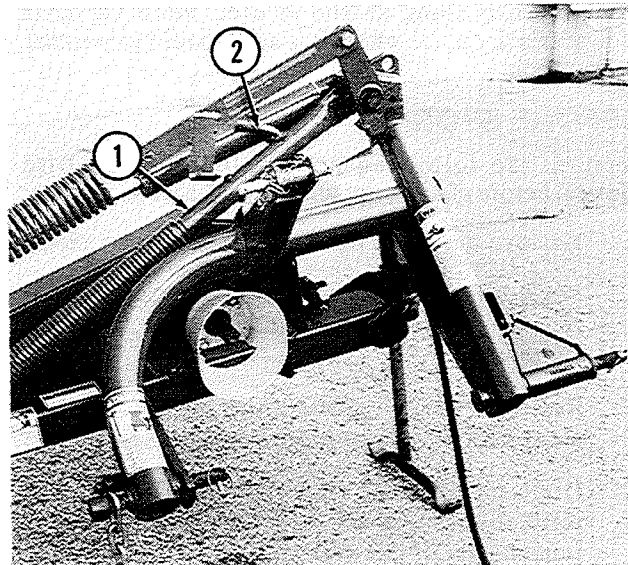
CAUTION

ALWAYS follow state and local regulations regarding a safety chain (NOT an elastic or nylon/plastic tow strap) and auxiliary lighting when transporting farm equipment on public highways! A safety chain should always be used to retain the connection between the transporting and transported units, in the event of separation of the primary attaching system. BE SURE to check with local law enforcement agencies for your own particular regulations.



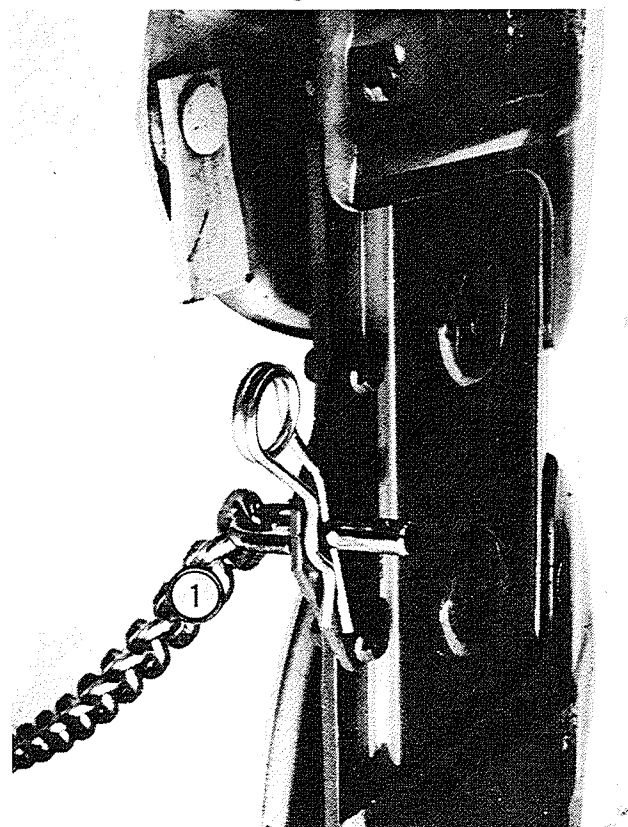
CAUTION

Do NOT alter NOR remove the protective Cutterbar Guard.



1 - Pin Transport Location
2 - Pin In Operation Position

Fig. 11-1



1 - Chain Installed on Cutterbar

Fig. 11-2

CHAPTER 12

STORAGE

After the harvesting season is over, store the Disc Mower in a dry place where it is not exposed to weather or livestock.

BEFORE STORING

Perform the following preparations on the Disc Mower, before placing the unit into off-season storage:

1. Remove the Drive Belts and store in a dry place.
2. Wash-off the entire machine. Take special care to remove gum and accumulated dirt from the Cutterbar.
3. Remove trash and debris which may be wrapped around Shafts and/or lodged against Bearings.
4. Drain oil from the Cutterbar and Gearbox and refill following the information in the Lubrication chapter of this manual.
5. Brush motor oil on the Cutterbar.
6. Lubricate the entire unit and apply motor oil to adjusting bolt threads.
7. Apply grease to any exposed Cylinder Rods.
8. Repaint any areas where the paint has been worn off.
9. Take note of any damaged or missing parts or attaching hardware; order and replace them during the off-season.
10. Check all hydraulic components, hoses and fittings for damage or leaks; make repairs or corrections, as required.
11. Store unit with the Cutterbar in the operating position.

AFTER STORING

After taking the Disc Mower out of storage and before the start of the harvesting season, carefully check the unit over and make the following inspections and preparations:

1. Replace all Guards, Shields and Covers. Review and re-familiarize yourself with all safety precautions outlined in the Safety chapter of this manual.
2. Remove any trash or debris which may have accumulated on the unit during storage.
3. Reinstall the Drive Belts using the procedures outlined in the Service chapter.
4. Inspect Cutterbar Knives.
5. Inspect the Break-away Latch and MAKE SURE that the components are NOT rusted tight.
6. Lubricate the entire machine following the information in the Lubrication chapter of this manual.

After the above steps have been performed, hook up the unit to the tractor and connect the Front Telescoping Drive. Then, start the unit and run it at half speed for about 15 minutes. Then, exercise the MANDATORY SAFETY SHUTDOWN PROCEDURE (page 8) and make the following inspections:

Check for overheated Bearings

Check for loose Bearing Collars or Flanges

Check for excessively worn Bearings

Check for loose or missing attaching hardware

CHAPTER 13

TROUBLESHOOTING

NOTE: This Troubleshooting guide presents problems, causes and suggested remedies beyond the extent of loose, worn or missing parts and it was developed with the understanding that the machine is in otherwise good operating condition. Refer to the Index at the back of this manual for Chapter and Topic page references. **BE SURE** to exercise the **MANDATORY SAFETY SHUTDOWN PROCEDURE** (page 8), **BEFORE** making any adjustments or repairs.

MISCELLANEOUS PROBLEMS

PROBLEM	CAUSE	REMEDY
Vibration	Crop Divider Cap missing or Crop Divider damaged.	Replace Cap or Divider.
Cutterbar not floating.	Main Frame setting incorrect. Cutterbar Pivot Points binding.	Adjust Main Frame to 16" (400mm) from ground and parallel. Clean and lubricate Pivot Points.
Machine breaking back too easily.	Insufficient tension on Break-away Spring.	Tighten Break-away Spring.
Difficulty in obtaining correct angle on Cutterbar.	Lack of adjustment in Top Link.	Re-position Pivot Bolt in Top Link.
Poor division between cut and uncut crop.	Tangled and down crops.	Check Swathboard Retaining Spring tension.
Uneven stubble.	Too much tilt on Cutterbar. Low PTO speed. Excessive forward speed. Knives dull or broken.	Reduce tilt. Run PTO at 540 RPM. Reduce forward speed. Install new Knives.
Stubble too long.	Incorrect angle on Cutterbar.	Change Cutterbar angle.
Crop being pushed forward before being cut.	Wind turbulence created by Blades when working in very light crop.	Install Straight Knives (see Optional Equipment chapter). Reduce PTO speed or increase forward speed.
Swath too wide.	Very heavy crop.	Install longer Outer Swath Board and/or Inner Swath Board (see Optional Equipment chapter).
Soil build-up on front of Cutterbar.	Very wet conditions.	Adjust Main Frame height by shortening Chain as necessary.
Excessive wear on Blades and Discs.	Working in difficult conditions.	Install set of Reinforced Discs and Knives (see Optional Equipment chapter).

CHAPTER 14

SET-UP & ASSEMBLY

CRATED UNIT

The DM162 and DM165 Disc Mowers are shipped from the factory in two separate shipping bundles consisting of two Main Frames and two Cutterbars.

ASSEMBLY (See Figs. 14-1 through 14-19)

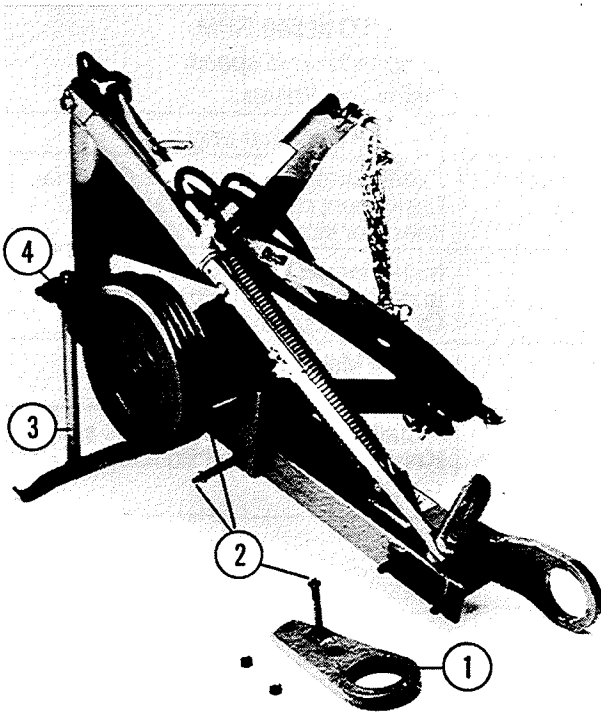


CAUTION

For personal safety, wood blocking should be used to assist in the assembly of the Disc Mowers.

Proceed to set up Disc Mower using following steps:

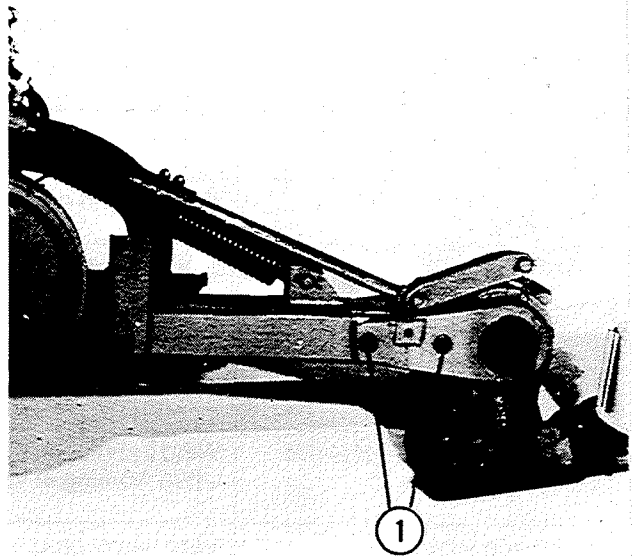
NOTE: Some of the following steps outlined may have been completed at the factory. If so, ignore the instruction and move on to the next step.



- 1 - Hinge Plate
- 2 - Spacer Bolts (3)
- 3 - Parking Stand
- 4 - Parking Stand Retaining Spring Pin

Fig. 14-1

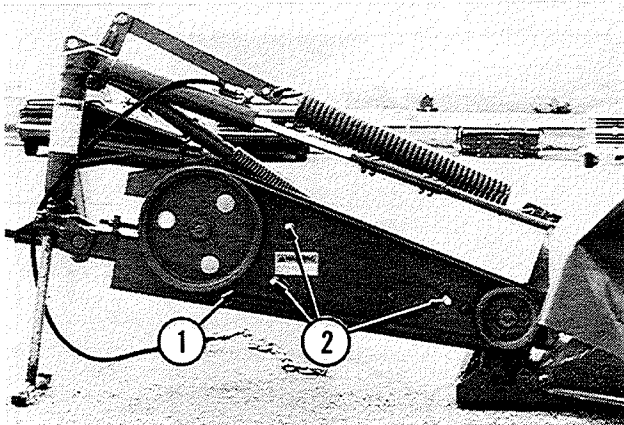
1. Referring to Figure 14-1, remove the Hinge Plate. MAKE SURE that the interior bore of both plastic Bushings are clean and well lubricated. Clean all protective paint off of the Gearbox End Covers. Remove and retain the (3) Spacer Bolts. Lower the Parking Stand and MAKE SURE that Stand is locked in position as shown.
2. Referring to Figure 14-2, attach Main Frame to Cutterbar. MAKE SURE hinged area is clean and well lubricated. Tighten Hinge Plate retaining Nuts to 100 ft lb (135 Nm).



- 1 - Hinge Plate Retaining Nuts (100 ft lb, 135 Nm)

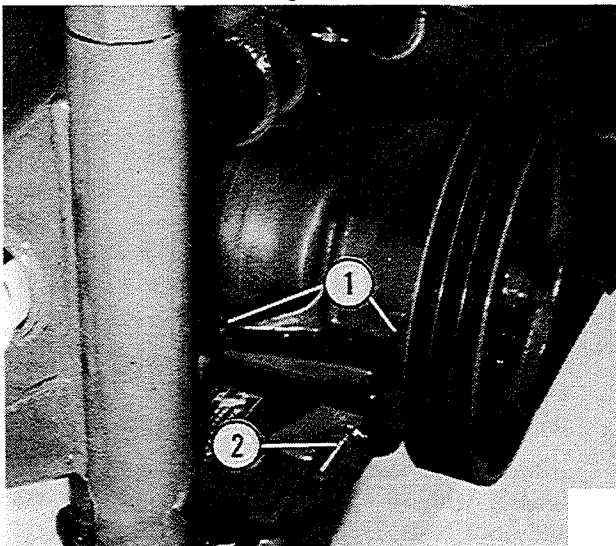
Fig. 14-2

3. Referring to Figure 14-3, install the Inner Belt Shield and secure with the (3) retained Spacer Bolts
4. Referring to Figure 14-4, install the Drive Belts. Tighten the Belts by loosening the U-Bolt and (2) Nuts that retain the Input Shaft Housing and moving the Housing with the adjustment provided. Tighten Belts until they require a force of 20 lbs. (9 kg) to deflect the belts 3/4" (19mm) at the midpoint. When tightening Input Shaft Housing U-Bolt and Nuts, MAKE SURE the Housing is tight against the Main Frame. See Figure 14-5 for details.



1 - Inner Belt Shield
2 - Spacer Bolts (3)

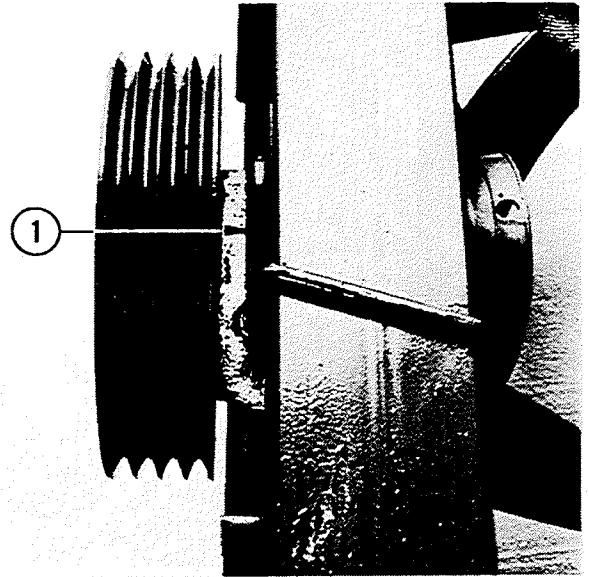
Fig. 14-3



1 - Input Shaft Housing U-Bolt and Nuts
2 - Belt Tension Adjustment Screw and Nut

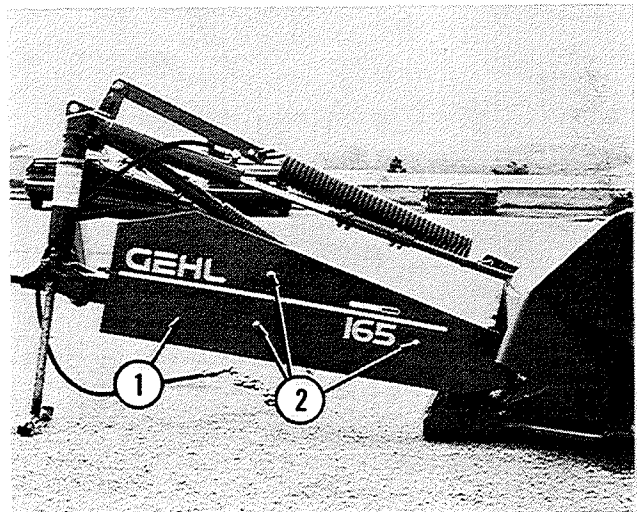
Fig. 14-4

5. Install Outer Belt Shield and secure with (3) Washers and Nuts. See Figure 14-6 for details.
6. Referring to Figure 14-7, attach the Inner Shoe loosely using the lower of the three mounting hole positions securing with a 10 x 16mm Bolt as shown. Install Bracket and other side of Shoe retaining loosely with a 10 x 20mm Bolt. Do NOT tighten hardware at this time.
7. Referring to Figure 14-8, attach the Inner Shoe loosely using the lower of the three mounting hole positions securing with a 10 x 16mm Bolt as shown. Install Bracket and other side of Shoe retaining loosely with a 10 x 20mm Bolt. Do NOT tighten hardware at this time.
8. Referring to Figure 14-9, connect the Break-away Latch to the 3-Point Frame as shown.



1 - Pulley Housing Guide

Fig. 14-5



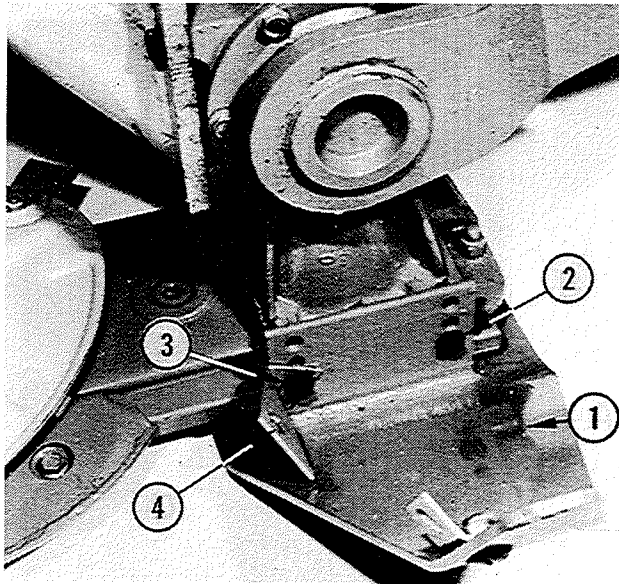
1 - Outer Belt Shield
2 - Washers and Acorn Nuts (3)

Fig. 14-6

9. Referring to Figure 14-10, attach Frame Pipe and Bracket to the Gearbox securing with (4) 12 x 35mm Bolts. Torque Bolts to 100 ft lb (135 Nm).

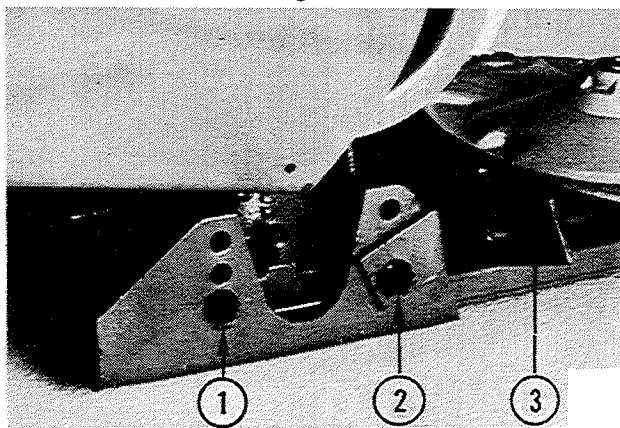
DM162 Only

10. Referring to Figure 14-11, clean threaded hole and attach the outer end of the Frame Pipe as shown securing with 16 x 50mm Bolt. Tighten Bolt to 180 ft lb (244 Nm). Also install 12 x 30mm Bolt and Lock Nut as shown.
11. Referring to Figure 14-12, attach the Outer Deflector securing with (4) 10 x 20mm Bolts and Lock Nuts as shown.



- 1 - Inner Shoe
- 2 - 10 x 16mm Bolt
- 3 - 10 x 20mm Bolt
- 4 - Bracket

Fig. 14-7

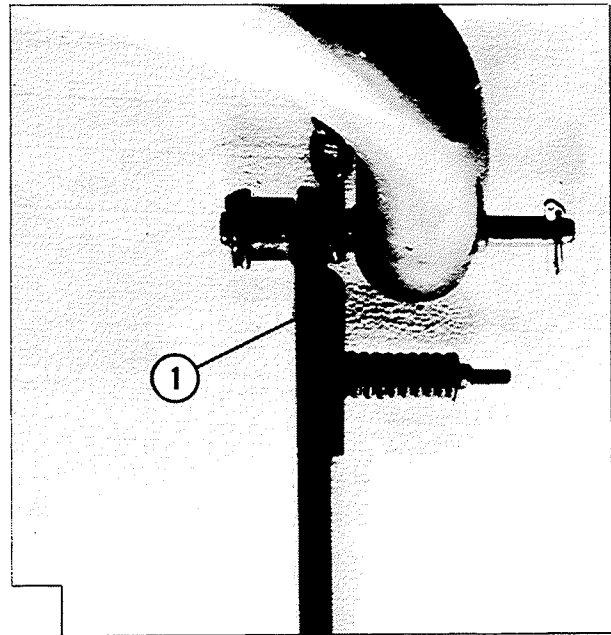


- 1 - 10 x 16mm Bolt
- 2 - 10 x 20mm Bolt
- 3 - Bracket

Fig. 14-8

DM162 and DM165

12. Referring to Figure 14-13, attach the Lift Bracket and retain with Pins and Cotter Pins.
13. Referring to Figure 14-14, attach the Inner Swath Board and secure with (4) 10 x 20mm Bolts, Washers and Nuts. Tighten all Bolts left loose in Steps 6 & 7.



- 1 - Break-away Latch

Fig. 14-9

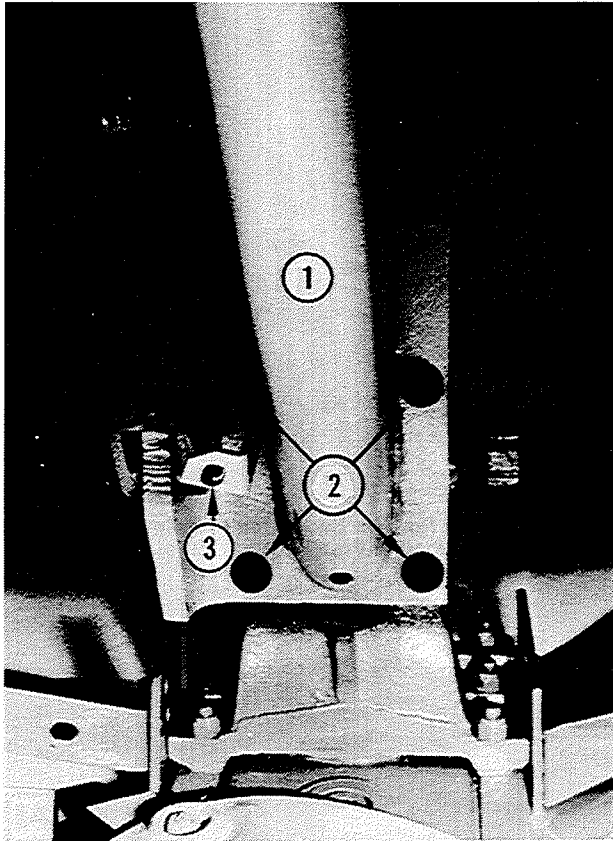
14. Referring to Figures 14-15 and 14-17, attach the Rigid Supports and loosely secure with 10 x 20mm Bolts and Lock Nuts.

Attach the Pivoting Supports and secure with 10 x 75mm Bolts and Lock Nuts. **MAKE SURE** that the Pivoting Supports are free to pivot.

Install Front and Rear Cover Frames securing loosely with 10 x 30mm Bolts, Nylon Washers and Lock Nuts. Tighten the Bolts securing Rigid Supports.

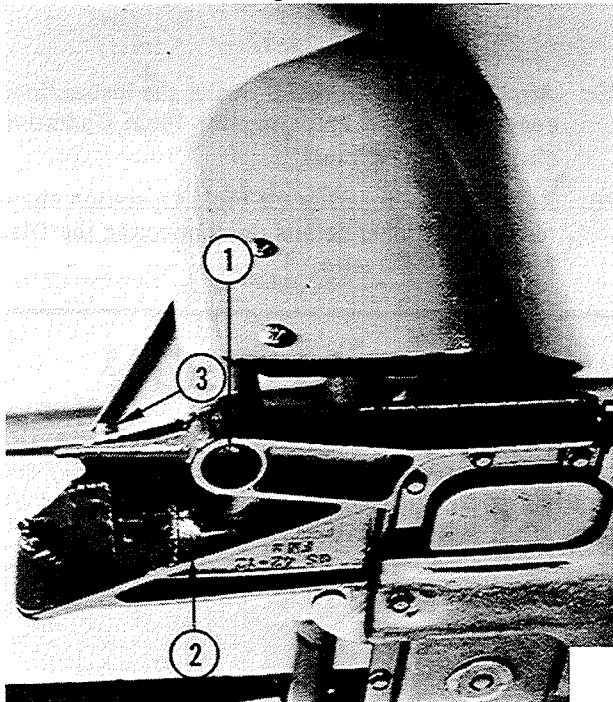
15. Referring to Figures 14-16 and 14-18, install Cutterbar Cover and attach with the previously installed hardware. It will be necessary to punch holes in the plastic fabric of the Cutterbar Cover to complete the installation of the Cover.

Attach Half Straps to the underside of the Rigid and Pivoting Supports using Screw, Nylon washer, Half Strap, Flat Washer and Nut. See figure 14-18 for details. These Straps are used to secure the Cutterbar Cover when the Disc Mower is in the transport position. Buckle the straps attached to the underside of the Cutterbar Cover to the Frame Pipe.



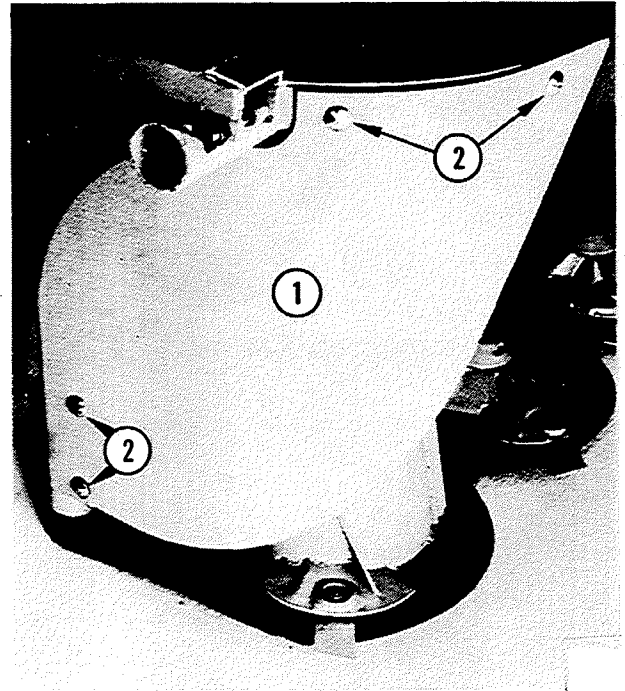
- 1 - Frame Pipe
- 2 - 12 x 35mm Bolts (4) (Torque to 100 ft lb, 135 Nm)
- 3 - Bracket

Fig. 14-10



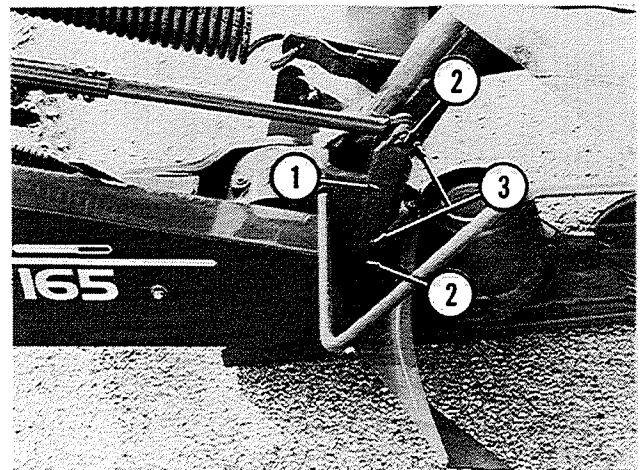
- 1 - 16 x 50mm Bolt (Torque to 180 ft lb, 244 Nm)
- 2 - Underside of Swath Board Bracket
- 3 - 12 x 30mm Bolt and Lock Nut

Fig. 14-11



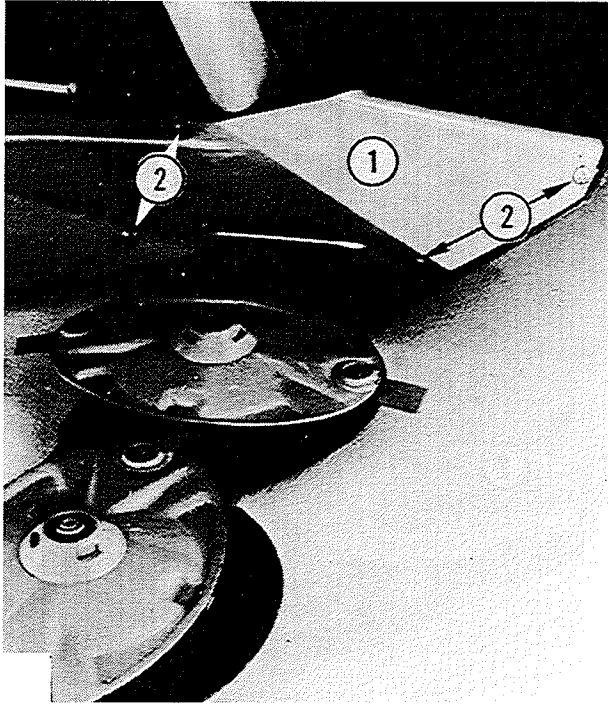
- 1 - Outer Deflector
- 2 - 10 x 20mm Bolts and Lock Nuts

Fig. 14-12



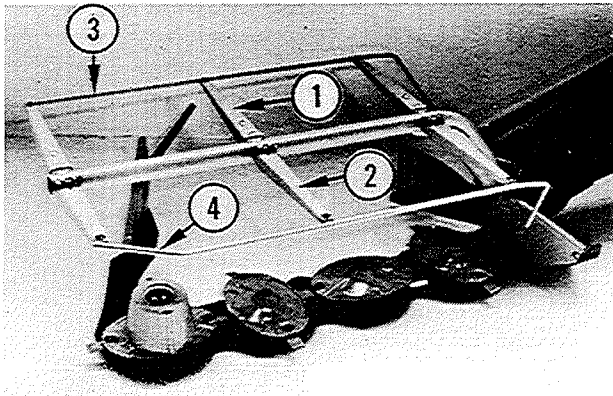
- 1 - Lift Bracket
- 2 - Lift Bracket Mounting Pins
- 3 - Cotter Pins

Fig. 14-13



- 1 - Inner Swath Board
- 2 - 10 x 20mm Bolts, Washers and Nuts (4)

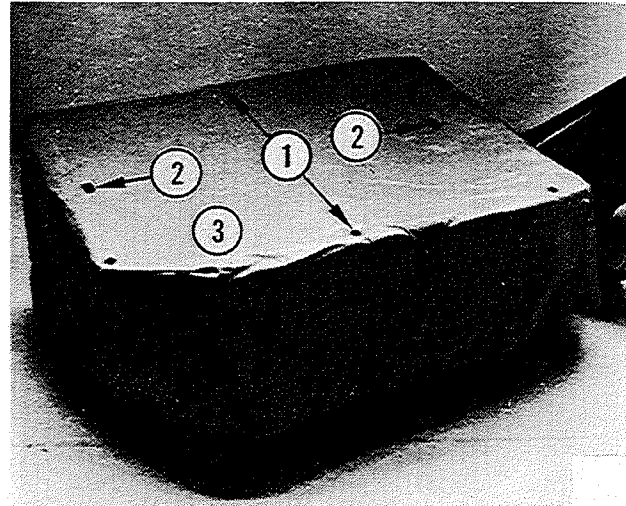
Fig. 14-14



- 1 - Rigid Support
- 2 - Pivoting Support
- 3 - Rear Cover Frame
- 4 - Front Cover Frame

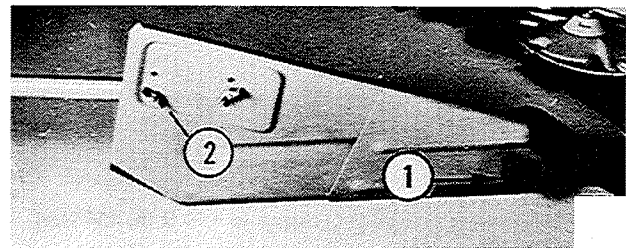
Fig. 14-15

16. Referring to Figure 14-17, attach the Swath Board Assembly securing with one 12 x 80mm Carriage Bolt, Spring, Washer and Nut. Tighten Nut so Swath Board can still pivot freely. Attach Swath Stick as shown securing with Wing Nuts.
17. Referring to Figure 14-19, attach the Extension Guard into the end Tube of the Safety Frame securing with concave Washer and self-locking Bolt. Secure to rear of Safety Frame using Existing hardware.



- 1 - Half Straps Here on Underside of Safety Frame
- 2 - Straps Buckled to Frame Pipe
- 3 - Cutterbar Cover

Fig. 14-16



- 1 - Swath Board Attachment Point
- 2 - Wing Nuts Retaining Swath Stick

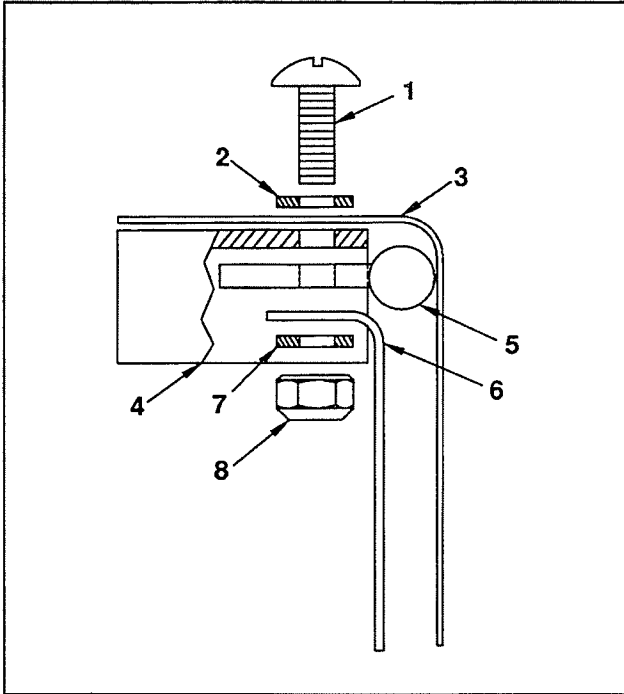
Fig. 14-17

19. Attach PTO Driveline following the instructions contained in the Preparing for Field Operation chapter in this manual.
20. Refer to the Preparing for Field Operation chapter for additional details on connecting the Disc Mower to the tractor.



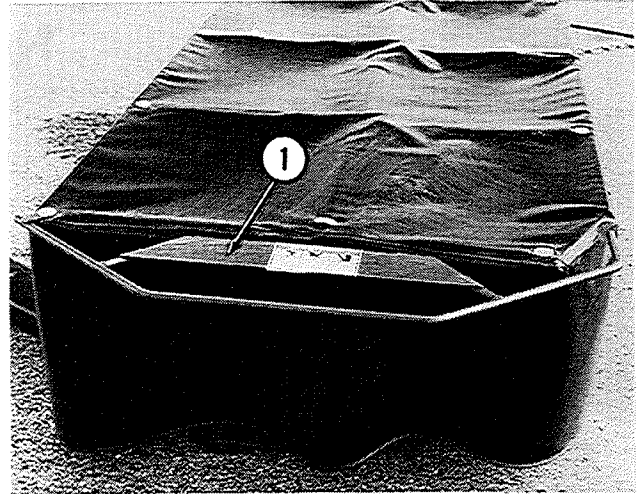
CAUTION

ALWAYS operate Disc Mower with Plastic Cutterbar Cover in place. The Cover **MUST** be folded down for work. Do **NOT** lean against or stand on Plastic Cover.



- 1 - Screw
- 2 - Nylon Washer
- 3 - Cutterbar Cover
- 4 - Support
- 5 - Cutterbar Cover Frame
- 6 - Half Strap
- 7 - Washer
- 8 - Nut

Fig. 14-18



1 - Extension Guard

Fig. 14-19

Notes

CHAPTER 15

OPTIONAL FEATURES & ACCESSORIES

80MM Skid Shoe Kit (805626) (DM162 & DM165) (See Fig. 15-1)

An 80mm (3-1/8") cutting height is available as an option for the Disc Mower. The Kit contains four (4) raised Skid Shoes and one (1) raised Inner Skid Shoe. When required, these parts should replace the original 2nd, 4th, 6th, 7th and Inner Skid Shoes being retained using the existing hardware. Bolt torque should be set to 52 ft lb (70 Nm).

NOTE: On Disc Mowers fitted with the 80mm Skid Shoe Kit, **MAKE SURE** to adjust the Lower Hitch Pin Height 1 to 2" (25 to 51mm) higher than originally called for in the Attaching Mower To Tractor topic of the Preparing For Field Operation chapter of this Operator's Manual.

Heavy Duty Disc & Knives, Set of 6 (805624) (DM162)

A Heavy Duty Disc & Knife Kit is available for operating in difficult conditions.

When securing the Disc, torque the Nut to 130 ft lb (180 Nm). When securing the Blade, torque the Nut to 65 ft lb (90 Nm).

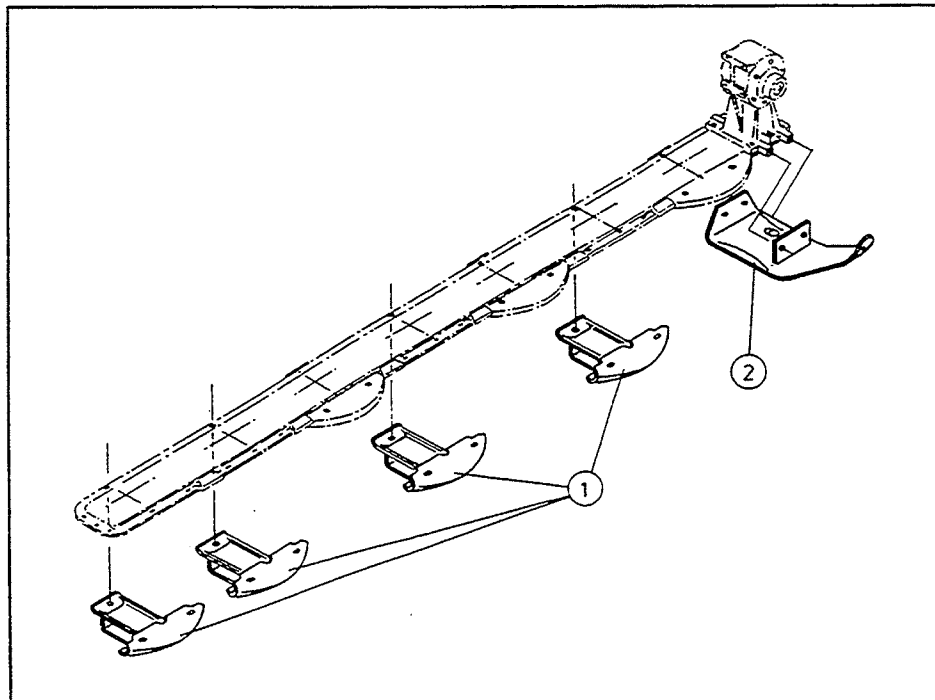
NOTE: NONE of the items making up the Heavy Duty Disc & Knife Kit are interchangeable with standard Duty Discs & Knives.

Inner Swath Kit for 4' (1.2M) Swath (805625) (DM162)

A narrower swath width can be achieved on DM162 by installing an Inner Swathboard Assembly. Installation instructions are supplied with the Kit.

Spring Assist Kit (805628) (DM165)

An Auxiliary Suspension Spring Kit is available as an option for improved flotation on very soft ground. The Kit consists of one each Pivot Pin, Tie Rod, Spring, Link Bracket, Pin, 8mm diameter Lynch Pin and two (2) 5 x 36mm Roll Pins. Installation instructions are supplied with the Kit.



1 - Raised Skid Shoes (4)
2 - Raised Inner Skid Shoe

Fig. 15-1

CHAPTER 16

DECAL LOCATIONS

GENERAL INFORMATION

Decal Locations information is provided to assist in the proper selection and application of new decals, in the event the original decals become damaged or the machine is repainted. Refer to the listing for the illustration reference number, part number, description and quantity of each decal provided in the Kit. Refer to the appropriate illustrations for replacement locations.

To insure proper selection of the correct replacement decals, compare all of the various closeup location photographs to your machine, before starting to refinish the unit. Then, circle each pictured decal (on or otherwise applicable to your machine) while checking-off its part number in the listing. After you have verified all the decals needed for replacement, place any extra unnecessary decals aside for disposal.

NEW DECAL APPLICATION

Surfaces **MUST** be free from dirt, dust, grease and other foreign material before applying the new Decal. To apply, remove the smaller portion of the decal backing paper and apply this part of the exposed adhesive backing to the clean surface while maintaining proper position and alignment. Peel the other portion of the backing paper off slowly while applying hand pressure to smooth-out Decal surface.

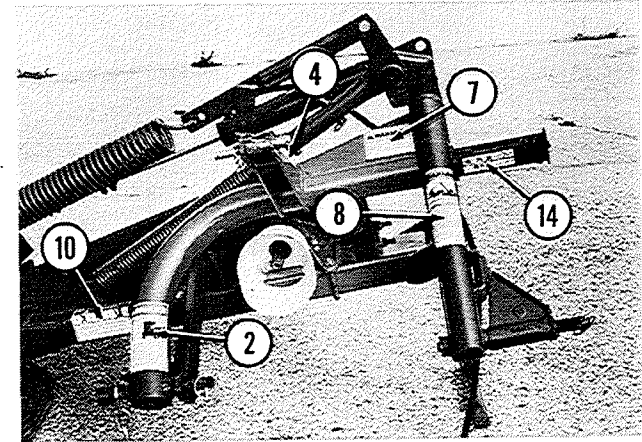
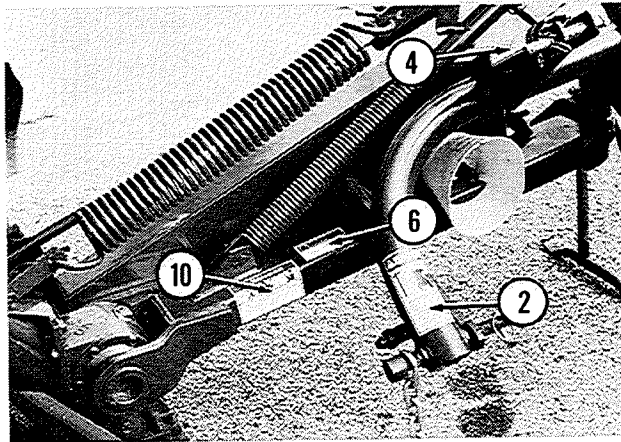
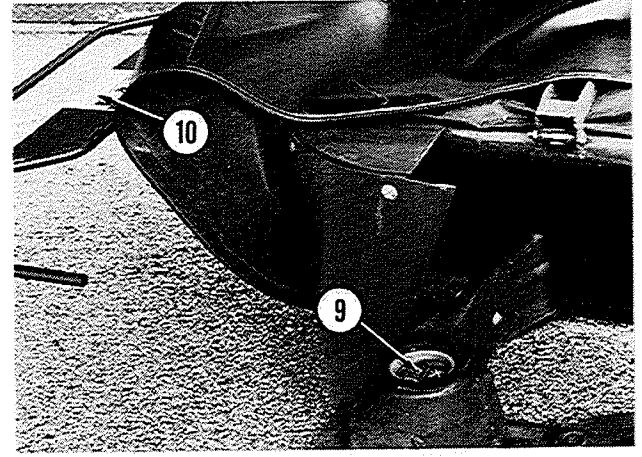
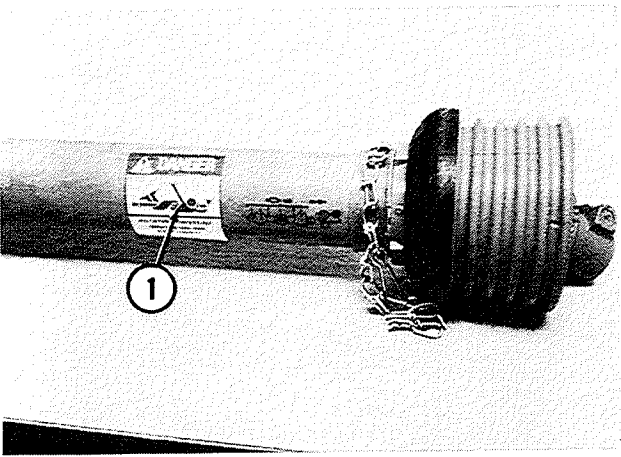
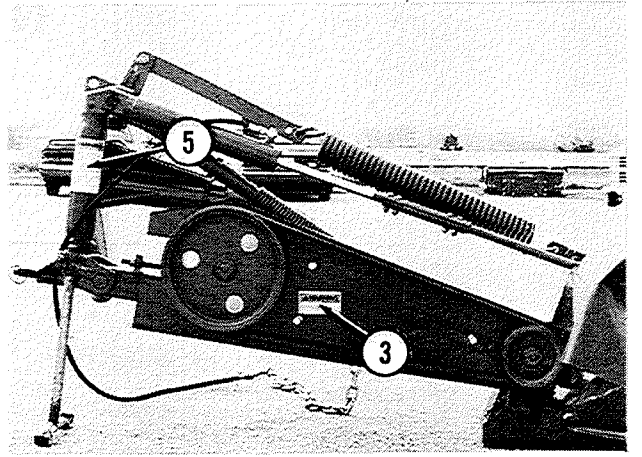
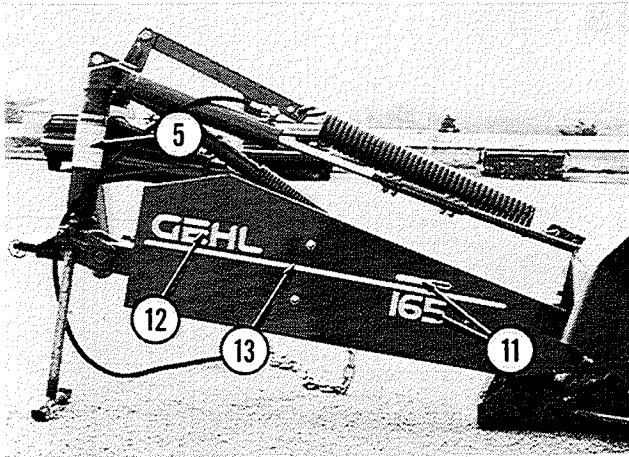


CAUTION

ALWAYS observe Safety Rules shown on Decals. If Decals become damaged, or if the unit is repainted, replace the Decals. If repainting, **BE SURE** that **ALL** Decals from the Kit(s) which apply to your machine, are affixed to your unit.

The Decal Set Number for the DM162 and DM165 is 126360. The Set includes the following:

Ref. No.	Part Number	Description & Quantity
1.	091444	DANGER - Rotating Drive Line
2.	093202	DANGER - Electrical
3.	093365	WARNING - Rotating Component
4.	093367	WARNING - Manual
5.	093373	WARNING - General
6.	093381	WARNING - Lock Pin
7.	093466	WARNING - 540 RPM
8.	093653	WARNING - Rotating Drive Line
9.	125368	Decal - Disc Hardware
10.	125476	DANGER - Rotating Knives (2 Places)
11.	126343	Decal - 162
	126344	Decal - 165
12.	126345	Decal - GEHL
13.	126348	Decal - Stripe
14.	126354	Decal - Proper Knives



Notes

Notes

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TORQUE SPECIFICATIONS FOR STANDARD METRIC HARDWARE


All Torque Values are in Ft-Lbs unless otherwise stated.
(Multiply In-Lb value* by 0.113 or Ft-Lb value by 1.355 to obtain metric Nm value.)

NOTE: These torque values are to be used for all **GEHL** hardware excluding: Locknuts, Self-tapping Screws, Thread Forming Screws and Sheet Metal Screws. Unless otherwise specified, all torque values must meet this specification.

Metric Bolt Size	Grade					
	GR. 8.8		GR. 10.9		GR. 12.9	
	Dry	Lub.	Dry	Lub.	Dry	Lub.
M6	8.0	6.0	11.0	8.0	13.5	10.0
M8	19.0	14.0	27.0	20.0	32.5	24.0
M10	37.5	28.0	53.0	39.0	64.0	47.0
M12	65.0	48.0	91.5	67.5	111.5	82.0
M14	103.5	76.5	145.5	108.0	176.5	131.0
M16	158.5	117.5	223.5	165.5	271.0	200.5



GEHL®



FARM EQUIPMENT

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