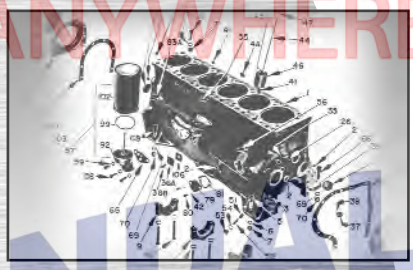

Gehl

Service, Part, & Operator's Manual

2330

Disc Mower Conditioner

Service, Part, & Operator's Manual

GE-SOP-2330DM

2330

Form No.
903559
Replaces
903326

Disc Mower Conditioner

OPERATOR'S AND SERVICE PARTS MANUAL

GEHL® COMPANY

Compiled and Reproduced From Original by Jensales Inc.

TABLE OF CONTENTS

CHAPTER 2

SPECIFICATIONS

Dimensions are in Inches (Millimeters) Unless Otherwise Noted

Model & Description ..... DC2330 Disc Mower Conditioner
Power .... Standard Drive from maximum 90 PTO hp (66kw) 540 RPM tractor or Optional Drive from minimum 75 PTO hp (55kw) 1000 RPM tractor
Cutting Width 113 (2870)
Cutting Height ..... Adjustable
Operating Height (Approx.) 44-1/2 (1130)
Tracking Width 104 (2640)
Transport Width 125 (3175)
Transport Height 67 (1700)
Overall Length (Approx.) 204 (5182)
Weight (Approx.) ..... 2880 lb (1305 kg)
Disc Speed ..... 3000 RPM
Knife Tip Speed ..... 184 mph (295 km/h)
Ground Travel Speed ..... 4 to 10 mph (8 to 15 km/h)
Tires ..... Two 11L x 15, Inflated to 28 PSIG (196 kPa)

After SN2226

Number of Discs 8
Total Number of Knives 24
Roller Speed ..... 700 RPM

Before SN2227

Number of Discs 7
Total Number of Knives 14
Roller Speed ..... 1000 RPM

Oil Capacities:

Drawbar Gearbox ..... 1 U.S. Pint (0.5 liters)
Main Drive Gearbox ..... 1/2 U.S. Pint (0.25 lters)
Roller Drive Gearbox ..... 1 U.S. Quart (1 liter)
Cutterbar ..... 2-1/4 U.S. Quart (2.25 liters)

Standard Features:

Slip Clutch-protected Telescoping PTO Drive Connection
Free-wheeling Overrunning Clutch in Disc and Roller Drive Line
Heavy-duty Hinged Protective Guard Over Cutterbar
Built-in and Replaceable Stone Guard Plate on Cutterbar
Cutterbar Knives with 12-1/2° Twist to Lift the Cut Material Over Cutterbar
Adjustable Cutterbar Flotation
Dual Hydraulic Cylinder Cutterbar Lift Control
Repositionable Windrow-forming Shields
Non-corrosive Flexible & Adjustable Rollers which Span Full Width of Cutterbar
Patented 3-point Hookup & PTO Connection enabling incomparable maneuverability while maintaining perfect preset alignment thru even the sharpest possible moving turns

Optional Features:

Drawbar Pivot Hydraulic Cylinder Control Kit
1000 RPM Drive Kit
Transport Hitch (for truck towing)

CHAPTER 5

GENERAL INFORMATION

The GEHL DC2330 Disc Conditioner is a machine that can mow, condition and windrow in one operation. The Disc Conditioner is a trailing type machine which is attached to the 3-point hitch of a 90 PTO hp (maximum) 540 RPM tractor for the standard (factory provided) Drive Line or 75 PTO hp (minimum) 1000 RPM tractor for the optional Drive Line. The Conditioner Drawbar angle can be conveniently changed from the tractor seat by means of a Control Cord to change between the "transport" and the operating position. Cutterbar height is raised or lowered hydraulically by means of the tractor hydraulic system. The mowing height and ground pressure of the Cutterbar are independently adjustable.

The mowing portion of the Disc Conditioner is composed of seven (7) (before SN2227) or eight (8) (after SN2226) Cutting Discs. After the crop is cut, it is taken up by the Nylon Crimping Rollers and conditioned between the Rollers. Once out of the Rollers, the crop is windrowed on the ground by adjustable position windrow Shields.

On leafy and thick-stemmed crops, the leaves dry faster than the stems. By conditioning the stems, moisture loss is accelerated and the drying process is evened-out to help prevent excessive leaf loss. A good method for measuring the conditioning effect is to check the crop next to the ground. Take a few stalks and hold them horizontally; the top ends should hang down.

FULL-SWIVEL HITCH

The Disc Conditioner is fitted with a unique full-swivel hitch for attachment to the 3-point hitch of the tractor. This hitch arrangement permits the tractor to move almost unrestrictedly in relation to the machine (1). On a vertical surface, there is only a slight shift in the PTO shaft tubes, when the tractor and machine form an angle (2). On slopes and banks, the tractor and machine are completely maneuverable, in relation to each other, without any additional load occurring on the Driving Gear (3). On a horizontal surface, sharp turns can be made without any adverse load occurring on the Driving Gear and particularly on the PTO shaft (4). The full-swivel hitch feature therefore makes operation much smoother, it increases capacity and it simplifies maintenance.

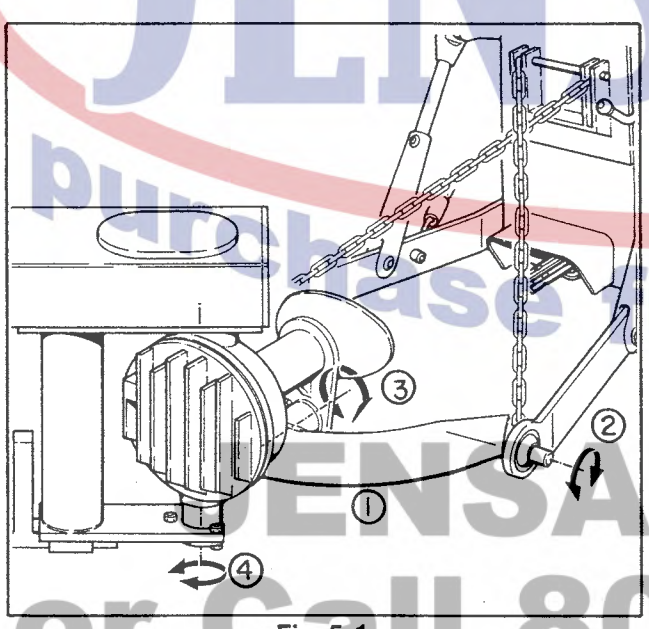

Fig. 5-1

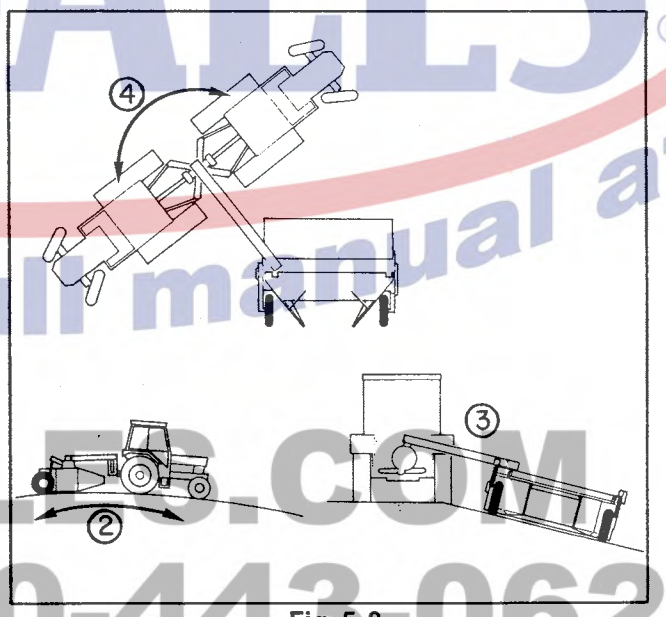

Fig. 5-2

ATTACHMENT TO THE TRACTOR

The Disc Conditioner is attached to the 3-point hitch of a Catagory II or III tractor. The tractor lower arms **MUST** be positioned at the same height (1). The tractor PTO shield (2) should be kept in place and properly secured at all times. Stabilization chains or rods (3) should also be used to completely eliminate lateral movement. Secure the Conditioner Hitch Limiting Chains (4) to the tractor lower arms and the top link anchor point. The length of the Chains **MUST** be adjusted so that the distance from the lower arms to the ground is 25″ (640 mm) (5).

NOTE: Where possible and to provide additional stability, the Hitch Limiting Chains should be crossed, as shown.

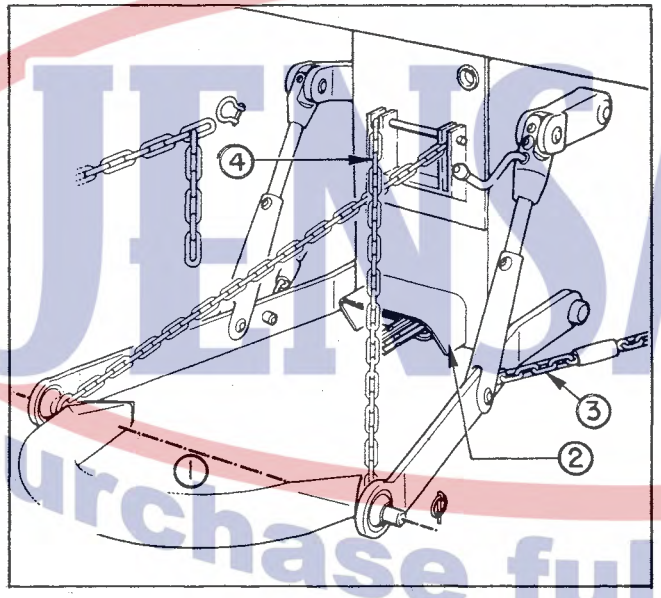

Fig. 5-3

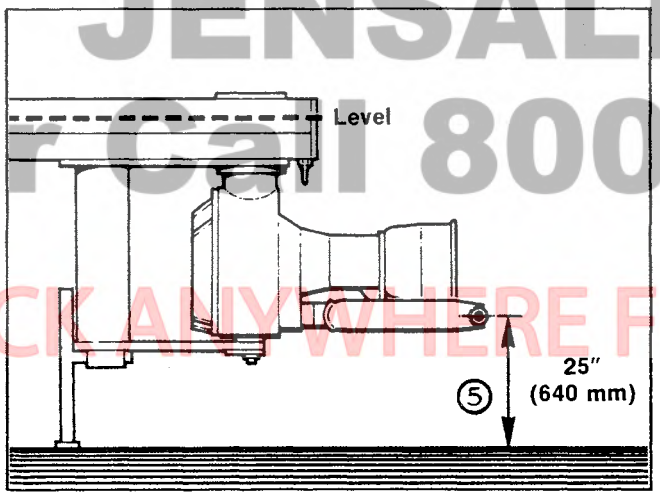

Fig.5-4

PTO SHAFT ATTACHMENT

Place the lower linkage arms at a distance of 25″ (640 mm) above the ground. At this point, the Conditioner Drawbar is horizontal (1).

NOTE: If the angle between the tractor PTO shaft and the Conditioner Drive Shaft is more than 15°, the distance of 25″ (640 mm) MUST be increased or reduced (2).

Bring the two halves of the PTO Shaft together, without sliding them into each other. Now, check the length; the tubes **MUST** overlap each other as far possible, but in any event, they **MUST** have a minimum clearance of 1″ (25 mm) at the end (3).

If the PTO Shaft requires shortening, refer to the next topic for details. Then, after the PTO Shaft has been properly shortened, check the sliding length once again by raising and lowering the tractor lifting mechanism to its maximum limits. If the Tubes slide too far into each other, shorten them once again.

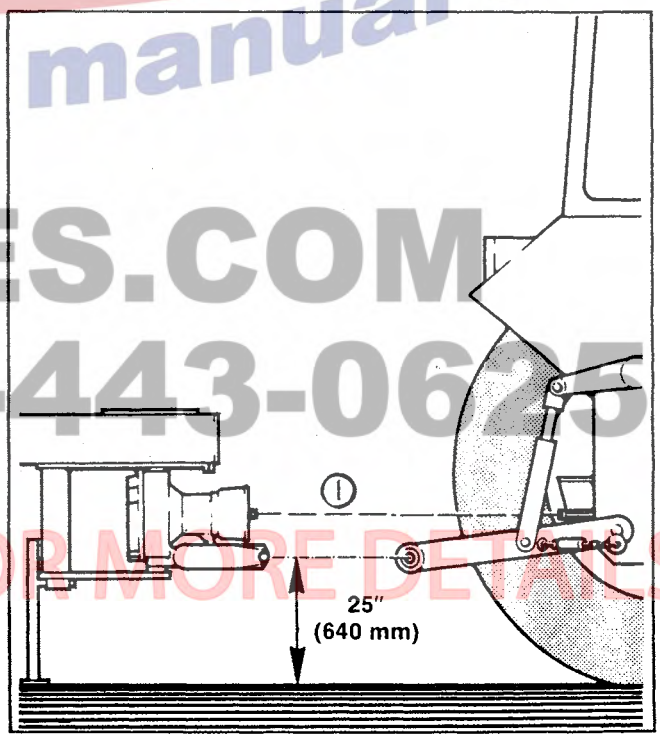

Fig. 5-5

Fig. 5-6

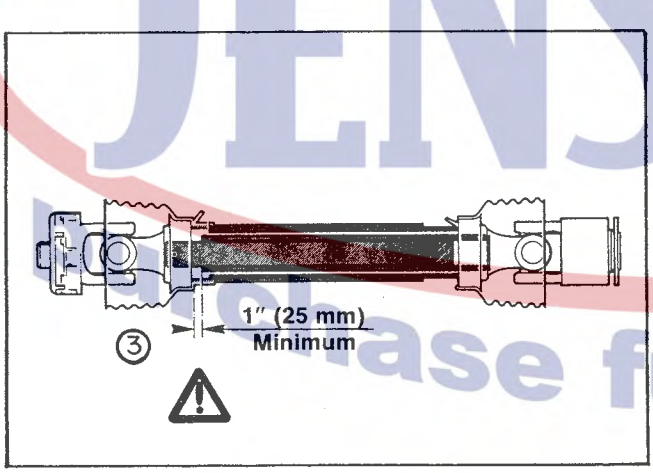

Fig. 5-7

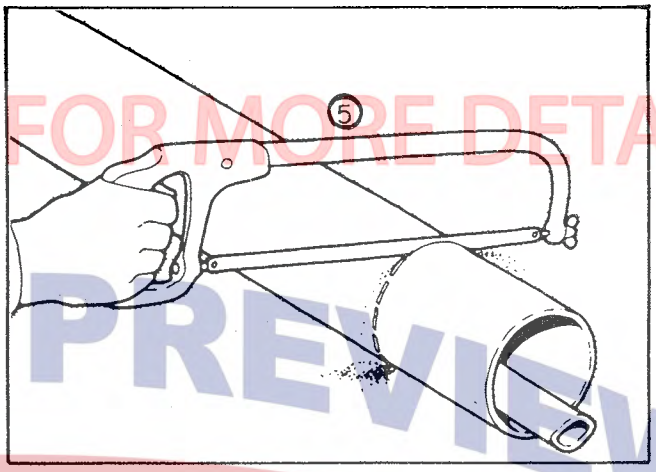

Fig. 5-8

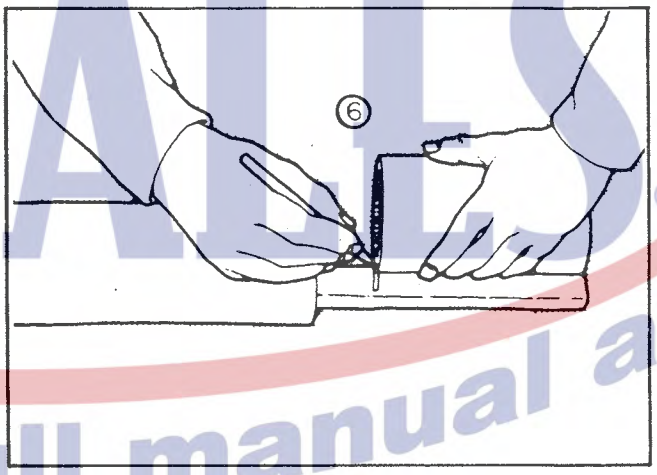

Fig. 5-9

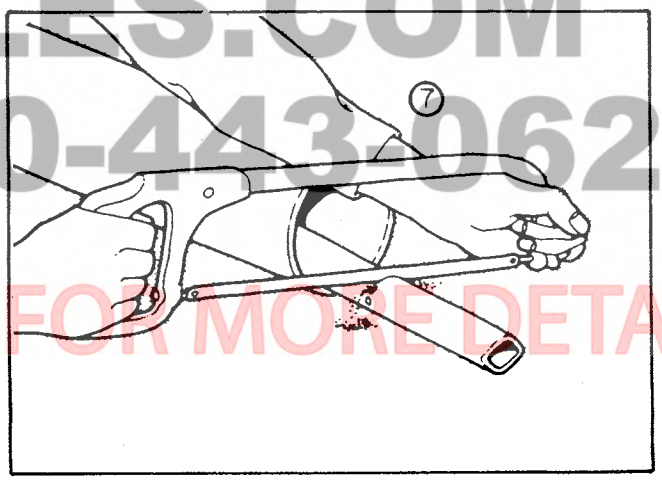

Fig. 5-10

SHORTENING THE PTO SHAFT

If the PTO Shaft is too long, first cut both Guard Tubes to the correct length (5). Then, cut the same length (6) from the Profile Tubes (7). Remove any burrs (8) and metal shavings from the Shaft and grease the outside of the inner Steel Profile Tube (9).

If the PTO Shaft is too long or the Profile Tubes are **NOT** lubricated, severe damage could result in the drive unit Bearings or the tractor PTO bearings. **NEVER** attempt to use a hammer on the PTO Shaft ends on the Splined Axle (10). All related components should mate together if properly aligned and kept well greased and clean (11). Mount the Guard Tube Safety Chain onto a stationary point of the Conditioner Hitch (12).