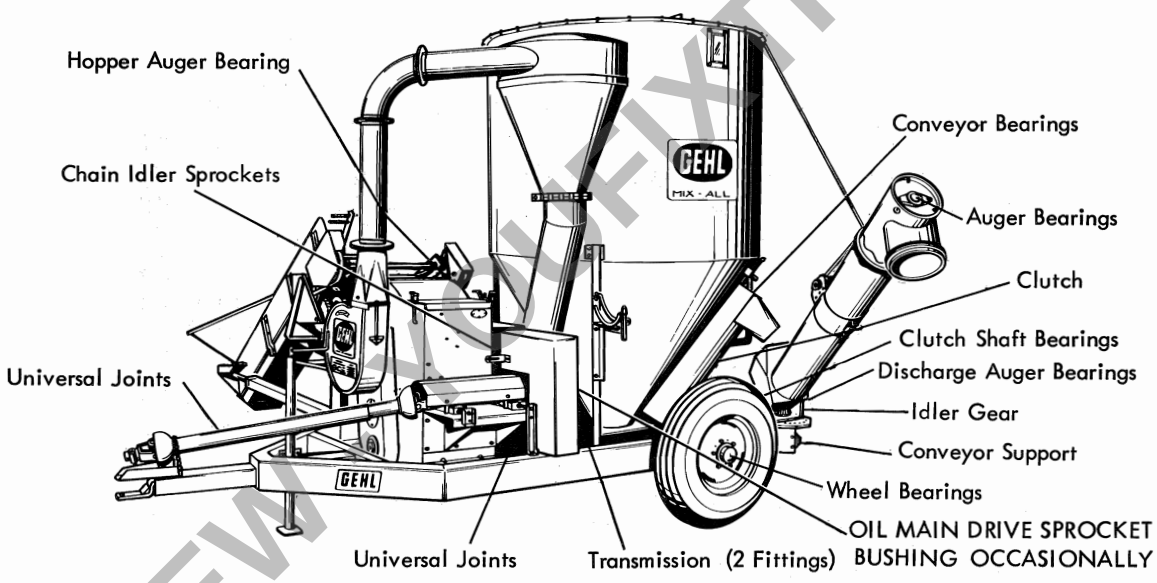
Before starting, see that the entire unit is properly lubricated. It is well to remember that too much oil and grease will do no harm but not enough might ruin it. All fittings are of standard style commonly found on farm implements and automotive equipment. Check below for their locations. We recommend frequent lubrication if unit is operated continuously for a long period of time.

Grease all points at two hour intervals the first two days of operation and twice each day thereafter. Use a good grade of #1-1/2 pressure gun grease.

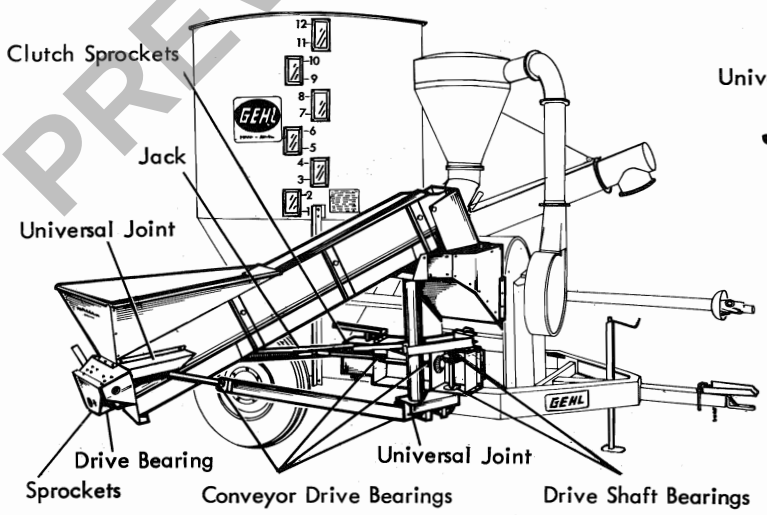
The Mixer Transmission has a 3 lb. capacity of #1-1/2 lb. pressure gun grease. DO NOT exceed these requirements.

NOTE: See the Service Manuals of the Feeder Attachment and the Hammer Mill for their respective lubrication instructions.

MIXER

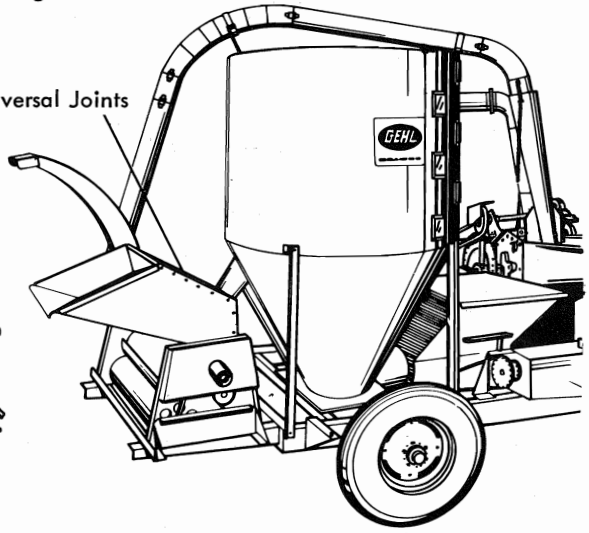


SWINGING AUGER FEEDER



HUSKER-SHELLER

IMPORTANT: Transmission requires one quart of SAE 140 black gear lube. Check level often.



IMPORTANT Do Not Over Grease Clutch Sprockets.

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Ref. No.	Part No.	Part Name	No. Req.
1	6H51A	Conveyor Rest	1
2	17H136	Main Frame	1
		Cotter Pin 1/8 x 2	2
		Castellated Nut 7/8 N. F.	2
3	17H159	Mixer Support - Right	1
4	17H160	Mixer Support - Left	2
5	17H199	Mill Mounting Bracket - Right (Used after Serial #1500)	2
6	17H200	Mill Mounting Bracket - Left (Used after Serial #1500)	2
7	17H239	Conveyor Hold-Down (Used after Serial #3501)	1
8	17H242	Jack Assembled (Used after Serial #4000)	1
9	17H276	Universal Drive Hold-Down (Used after Serial #10000)	1
10	550002	Wheel Hub (Includes two 520025)	2
11	D3019	Lock Handle (One req'd after Serial #3501 and before Serial #10001)	2
12	D3020	Lock Angle (Two req'd after Serial #3501 and before Serial #10001)	4
13	D3021	Lock U-Bolt (One req'd after Serial #3501 and before Serial #10001)	2
14	D3022A	Oval Head Rivet 3/4" (Used after Serial #3501)	1
15	D3022B	Oval Head Rivet 1" (One req'd after Serial #3501 and before Serial #10001)	2
16	D3024	Hold-Down Lock (One req'd before Serial #10001)	2
17	550018	Dust Cap	2
18	D9117	Washer	6
19	550022	Grease Seal	2
20	550033	Drop Center Wheel	2
21	R13033A	Jack Assembled (Used before Serial #4001)	1
22	R13131	Jack Head	1
		Grease Fitting 570002	1
23	R13132	Jack Base	1
24	R13133	Jack Screw	1
		Roll Pin #187 x 1-1/4	2
25	R13134	Jack Screw Handle	1
		Cotter Pin 1/8 x 3/4	1
26	R13135	Jack Bolt	1
		Cotter Pin 3/16 x 1-1/2	1
		Slotted Nut 3/4	1
27	R13136	Jack Lock Pin	1
		Cotter Pin 1/8 x 1-1/4	1
28	R13137	Jack Lock Pin Retainer	1
29	R13138	Lock Spring	1
30	R13139	Drawbar Hitch - Upper (Used before Serial #3103)	1
	R13139A	Drawbar Hitch - Upper (Used after Serial #3102 and before Serial #10001)	1
	17H275	Drawbar Hitch - Upper (Used after Serial #10000)	1
31	R13140	Drawbar Hitch - Lower (Used before Serial #3103)	1
	R13140A	Drawbar Hitch - Lower (Used after Serial #3102)	1
32	R13224	Conveyor Hold-Down Lock (Used after Serial #3501)	1
33	520025	Bearing Cup	4
34	520027	Bearing Cone	2
35	520028	Bearing Cone	2
36	550041	Wheel Bolt	12
37	3/4	Steel Ball	1

FENDER ACCESSORY

Fenders can be installed on all #50 MX Mixers except those Mixers before serial number 4899 that are equipped with Husker-Sheller.

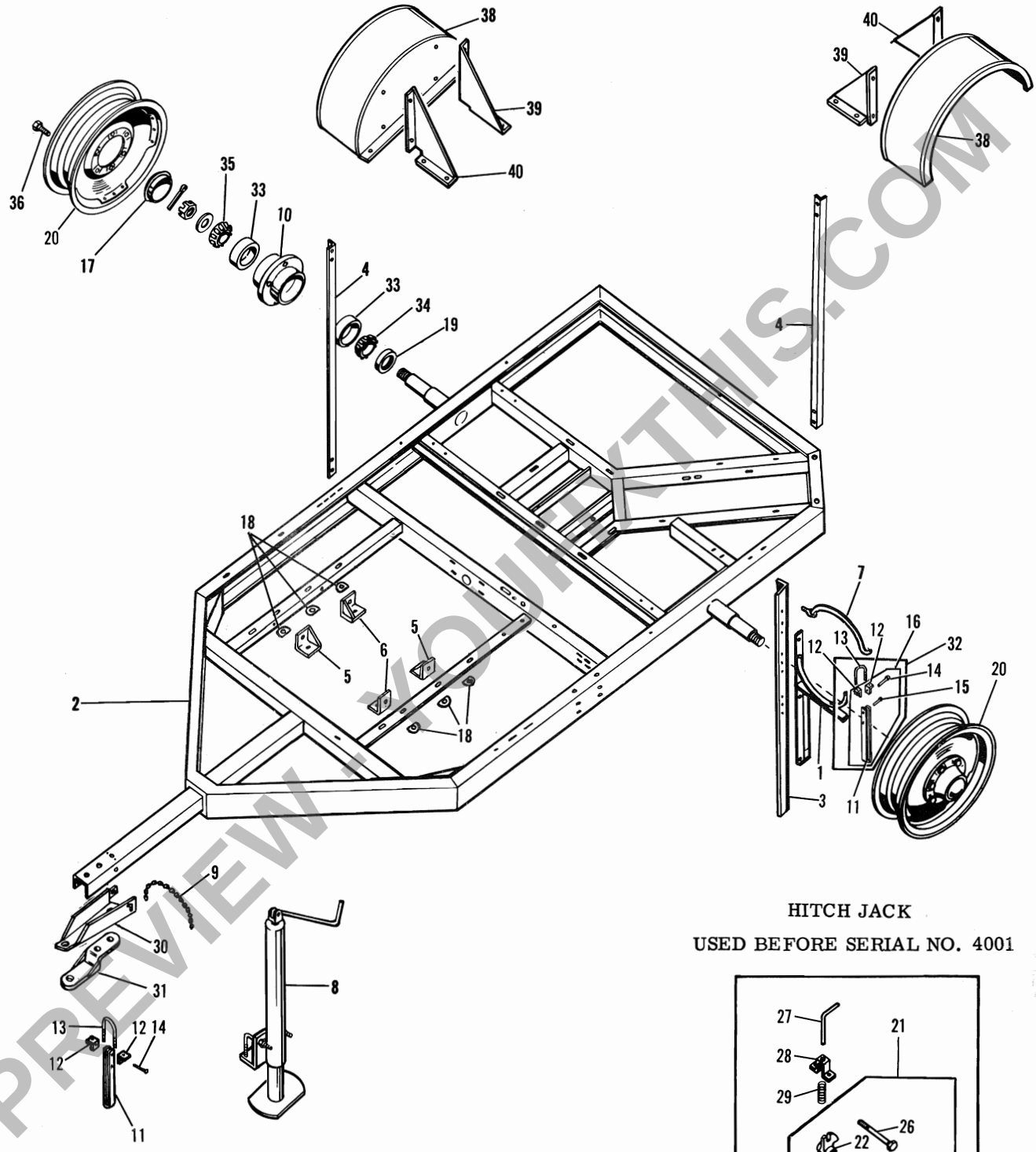
Holes must be added to the Mixer Frame for attaching Fenders. A blueprint showing hole locations is included with the Fenders. Bolts for assembly are also included.

Ref. No.	Part No.	Part Name	No. Req.
38	17H286	Fender	2
39	17H287	Fender Brace - Right	2
40	17H288	Fender Brace - Left	2

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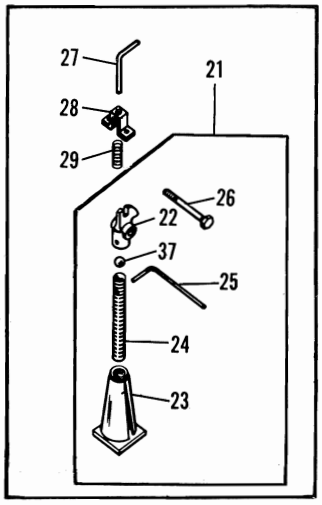
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HITCH JACK

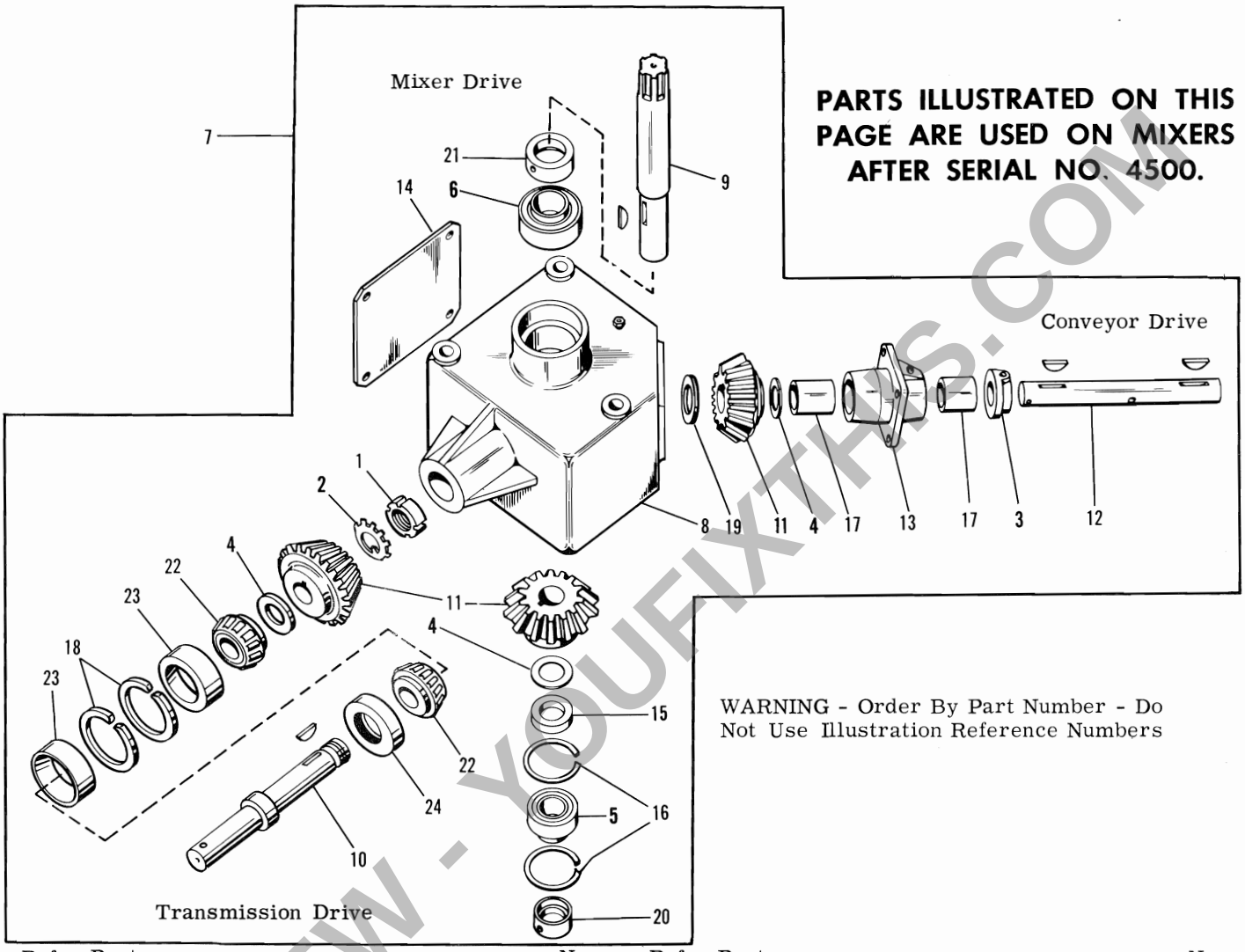
USED BEFORE SERIAL NO. 4001



WARNING - Order By Part Number - Do Not Use Illustration Reference Numbers

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PARTS ILLUSTRATED ON THIS PAGE ARE USED ON MIXERS AFTER SERIAL NO. 4500.

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Ref. No.	Part No.	Part Name	No. Req.
1	520000	Locknut	1
2	520001	Lockwasher	1
3	4H42	Set Collar	1
		Soc. Hd. Set Screw 3/8 x 3/4	1
4	7H73	Shim Washer	5
5	520062	Bearing	1
6	520064	Bearing	1
7	17H137A	Transmission Assembled	1
8	17H138A	Transmission Housing	1
		Grease Fitting 570006	1
		Relief Fitting 570016	1
		Street El 1/8 x 45°	1
		Pipe Nipple 1/8 x 6-1/2	1
9	17H139	Mixer Drive Shaft	
		1-3/8 x 9-3/4	1
		Woodruff Key 5/16 x 1	1
10	17H141A	Transmission Drive Shaft	
		1 x 8-9/16	1
		Woodruff Key 5/16 x 1	1
11	17H142A	Transmission Gear (14 T)	3
12	17H143	Conveyor Drive Shaft	
		1 x 8-3/4	1
		Woodruff Key 5/16 x 1	2
		Cotter Pin 3/16 x 1-1/2	1
13	17H144	Conveyor Shaft Bearing	1
		(Includes (2) 17H238 Bushings)	
		Pipe Nipple 1/8 x 4	1
		Grease Fitting 570006	1
14	17H145	Transmission Cover	1
15	17H146	Gear Spacer	1
16	540000	Snap Ring	2
17	17H238	Bushing	2
18	540001	Snap Ring	2
19	D932A	Washer	1
20	520084	Bearing Collar	1
21	520085	Bearing Collar	1
22	520032	Bearing Cone	2
23	520033	Bearing Cup	2
24	530008	Oil Seal	1

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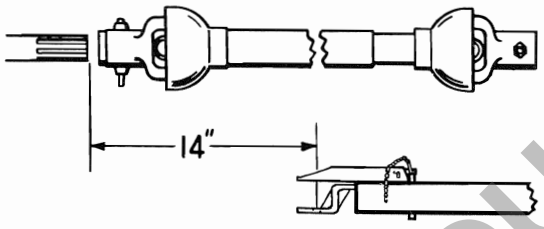
SERVICING THE NO. 50 MX MIXER

GENERAL OPERATION

1. Maintain machine in level position if at all possible.
2. Keep all guards and covers in place during operation.
3. Keep the entire unit properly lubricated.
4. The unloading conveyor should be kept in the best position for transportation.
5. Maintain a proper tire pressure of 48 lbs.

TRACTOR DRIVE

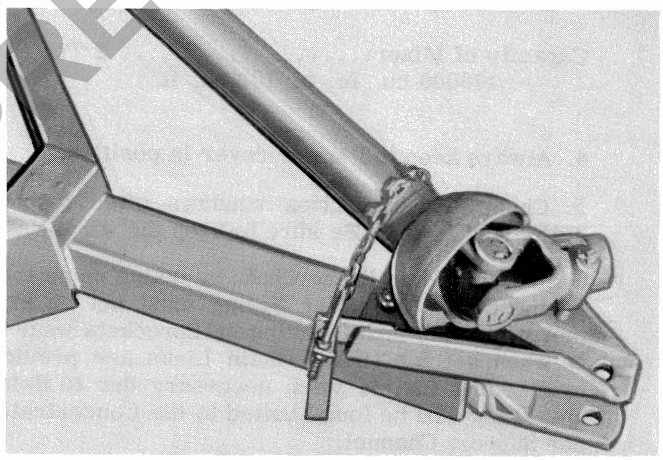
1. Maintain a standard ASAE tractor hook-up. It is very important to check the PTO shaft to hitch point dimensions. This should be 14" in horizontal direction. Correct tractor drawbar if necessary.



2. Under load maintain the P. T. O. speed at 540 RPM, especially when grinding heavy materials or through a small screen. The tractor speed can be reduced to suit the operator if only the Mixer and unloading conveyor are operated.

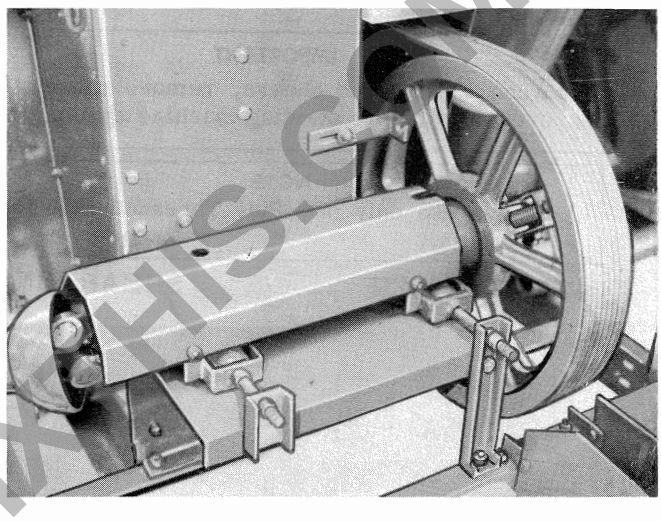
3. Keep the tractor lined up with the Mixer. Do not operate at severe angles as this will increase the possibilities of damage to universal drive.

4. The Universal Drive should be disconnected from the Tractor P. T. O. Shaft when Mixer is in transport. Place Universal Drive Joint in Upper Drawbar Hitch and fasten with the Hold-down Chain.



MILL DRIVE

1. The V-belt drive must be kept in proper tension and alignment at all times. Belts at correct tension can be deflected only slightly. Set screws on the bearing mounting bracket provide the belt adjustment.



CAUTION

Loosen Mixer Drive Chain before adjusting Drive Belts. Be sure to tighten chain after adjusting Drive Belts. See item #6 on page 4.

Here are important pointers to keep in mind when installing or replacing the drive:

1. Always use a matched set of belts.
2. Sheave grooves must be free of grease, oil, rust and burrs.
3. Slack the take-up mechanism so belts can be put on without forcing.
4. It is very important that the sheaves are correctly aligned. The two shafts must be parallel.
5. Place the belts on the sheaves. Take up the belts until tight. Any slippage will indicate belts are not tight enough. Be sure to again check sheave alignments.
6. The belts will be seated in the groove after a short break-in period, then take up the belts again. Check belt tension regularly.

Slipping or twisting of the belts means either incorrect installation, lack of correct tension, or misalignment of the drive.

2. A clutch incorporated in the drive sheave allows the mill drive to be disconnected when only the Mixer is to be operated. Lift pin up to disengage. Do not attempt to engage the clutch while the Mixer is being operated.

3. Keep all drive guards in place.

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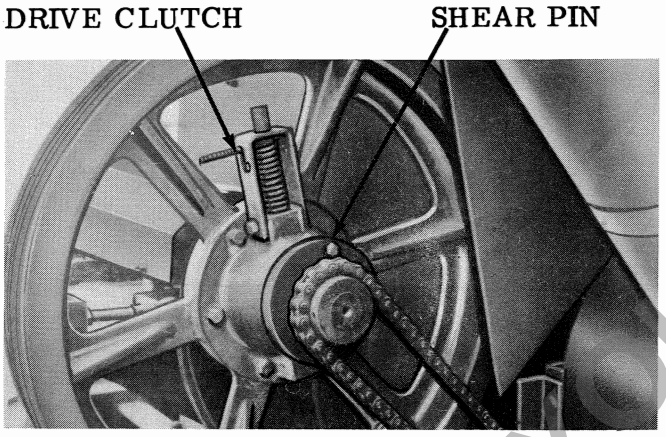
4. To replace the Shear Bolt (Shear Pin before Serial #11822), realign holes in Sprocket Flange and Safety Flange. Insert 1/4 x 1 Hexagon Head Cap Screw and fasten with Lockwasher and Nut - #10D Common Nail on machines before Serial #11822. In order that the Safety device always works properly, only one Shear Bolt or Pin is to be used.

IMPORTANT

When Bolt or Pin Shears, remove cause of over-load before starting machine again.

NOTE

Always use only one Full Threaded Bolt for Shear Pin.



CAUTION: DO NOT attempt to engage clutch while the P. T. O. shaft is in operation.

CONCENTRATE HOPPER

1. Always keep the bag guard, located in hopper, in place.

2. Add concentrates or feed supplements only after the Mixer is partly filled.

3. Do not attempt to pour any liquids, such as molasses, into hopper.

MIXING OPERATION

1. Grind heavy feeds first for the best mixing unless these feeds are very high in moisture content. Wet, heavy material should be mixed into light, dry feed to absorb moisture. Too high a moisture content can cause a serious packing problem and poor mixing.

When grinding hay and ear corn with husks, grind 200 pounds of corn and then a bale of hay. This will prevent bridging in the Mixer Tank.

2. Liquids, such as molasses, should be added only after the Mixer is at least half full. Dry molasses can also be added at this time. See Illustration. A Molasses attachment for the Mixer is available. See your local Gehl Dealer for more information.

IMPORTANT

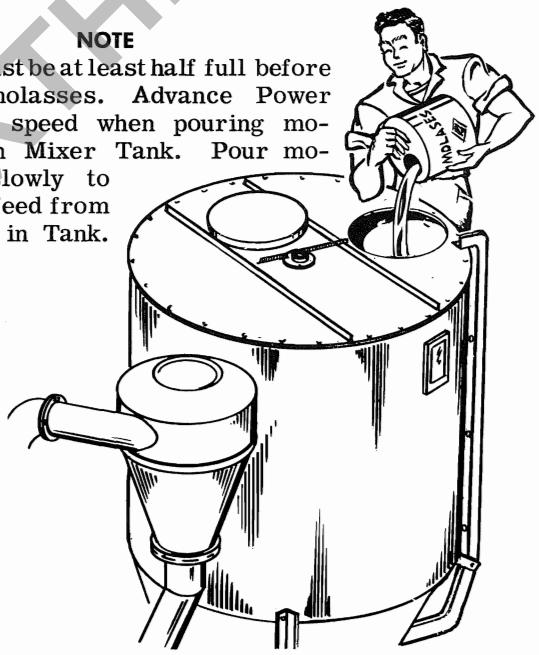
Take note of Calibrated Settings at Tank Windows and Feed Pound Chart Decal.

NOTE

Keep Mixer Tank interior clean and free of Rust and Corrosion. To clean the Mixer Tank, feed approximately 10 or 12 bushels of shelled corn through the Concentrate Hopper into the Mixer Tank. Allow corn to agitate for ten minutes or longer to clean tank.

NOTE

Mixer must be at least half full before adding molasses. Advance Power Take-off speed when pouring molasses in Mixer Tank. Pour molasses slowly to prevent feed from bridging in Tank.



3. Be careful not to overload the Mixer. This will cause the feed to pack and overload the mixing and drive mechanisms.

Capacity of Mixer..... 2 Ton (82 bu.)
176000 cu. in. or 102 cu. ft.

4. Always keep the Mixer cover in position.

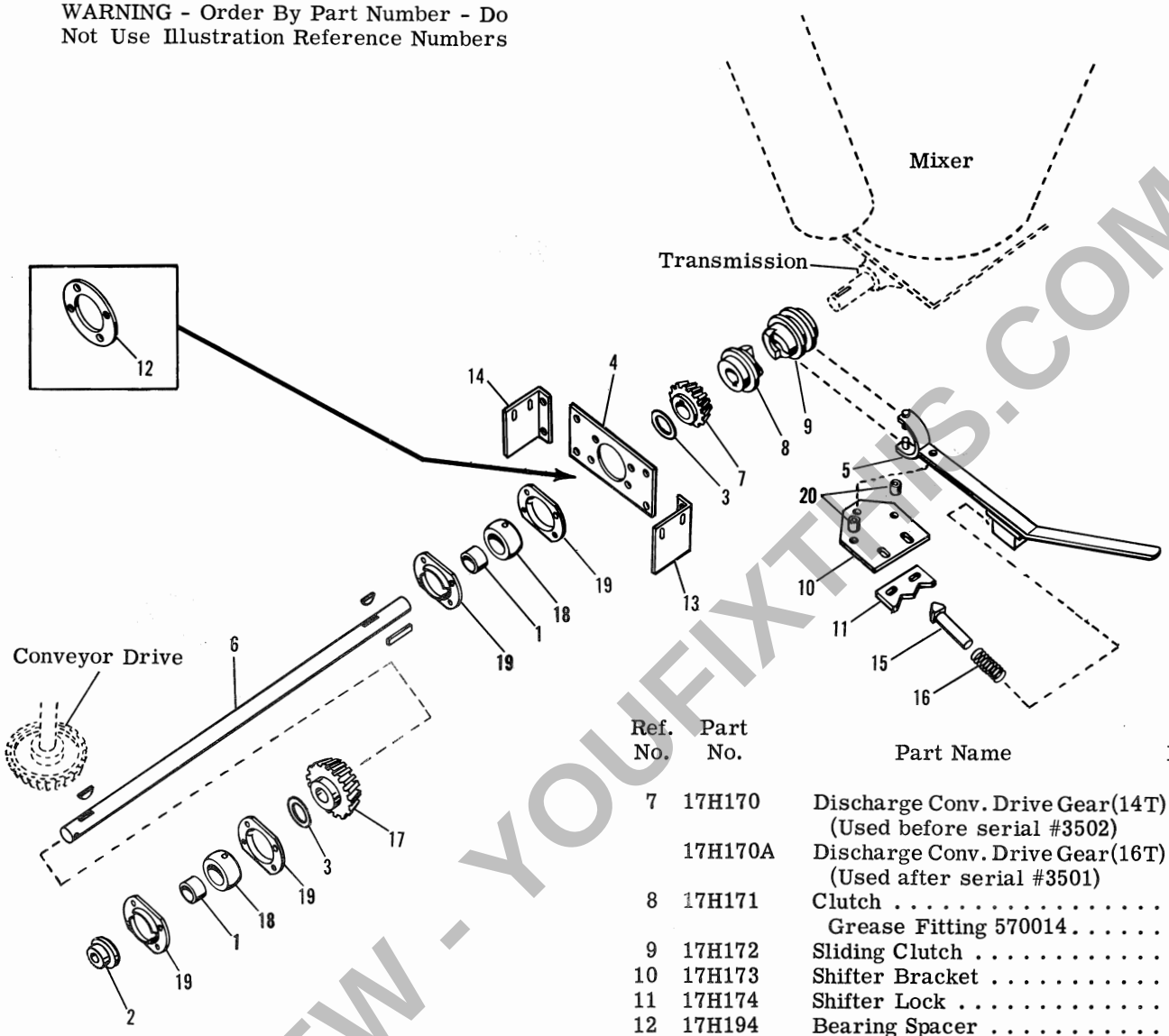
5. Check the inspection windows often for mixing action and levels. Be sure to keep the windows clean.

6. Adjust Main Drive Chain by taking up on the Idler Spring Stud. The Idler Spring must not be extended more than one inch. Chains and Sprockets wear rapidly when set too tight. Chain Links are provided for lengthening Chains when necessary due to Belt take-up. They will be found bolted to the Concentrate Hopper Support Channel.

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Ref. No.	Part No.	Part Name	No. Req.
1	D9139	Bushing	2
2	4H42	Set Collar	1
		Self-locking Soc. Hd. Set Screw 3/8 x 3/8	1
3	7H73	Shim Washer	As Req'd.
4	17H166	Bearing Holder	1
5	17H168	Clutch Shifter	1
6	17H169	Conveyor Drive Shaft 1x25-5/16	1
		Woodruff Key 5/16 x 1	2
		Tapered Key 5/16 x 1	1
		Cotter Pin 3/16 x 1-1/2 (Used before serial #4001)	1
	17H169A	Conveyor Drive Shaft 1x30-3/4.	1
		Woodruff Key 5/16 x 1	2
		Tapered Key 5/16 x 1	1
		Cotter Pin 3/16 x 1-1/2 (Used after serial #4000)	1
7	17H170	Discharge Conv. Drive Gear(14T) (Used before serial #3502)	1
	17H170A	Discharge Conv. Drive Gear(16T) (Used after serial #3501)	1
8	17H171	Clutch	1
		Grease Fitting 570014	1
9	17H172	Sliding Clutch	1
10	17H173	Shifter Bracket	1
11	17H174	Shifter Lock	1
12	17H194	Bearing Spacer (Used after serial #1500 and before serial #3502)	1
13	17H195	Bearing Bracket - Right (Used after Serial #1500)	1
14	17H196	Bearing Bracket - Left (Used after serial #1500)	1
15	H217	Shifter Lever Dog	1
16	A262	Shifter Spring	1
17	D9033	Conveyor Drive Gear (14T) (Used before serial #3502)	1
	6H143A	Conveyor Drive Gear (14 T) (Used after serial #3501) and before Serial #13001	1
	6H143	Conveyor Drive Gear (17 T) (Used after serial #6807 and before serial #13001)	1
	17H284	Conveyor Drive Gear (19 T) (Used after serial #13000)	1
18	D9048A	Bearing (Includes one D9139)	2
		Grease Fitting 570003	2
19	B11029A	Bearing Retainer	4
20	R13027	Spacer	2

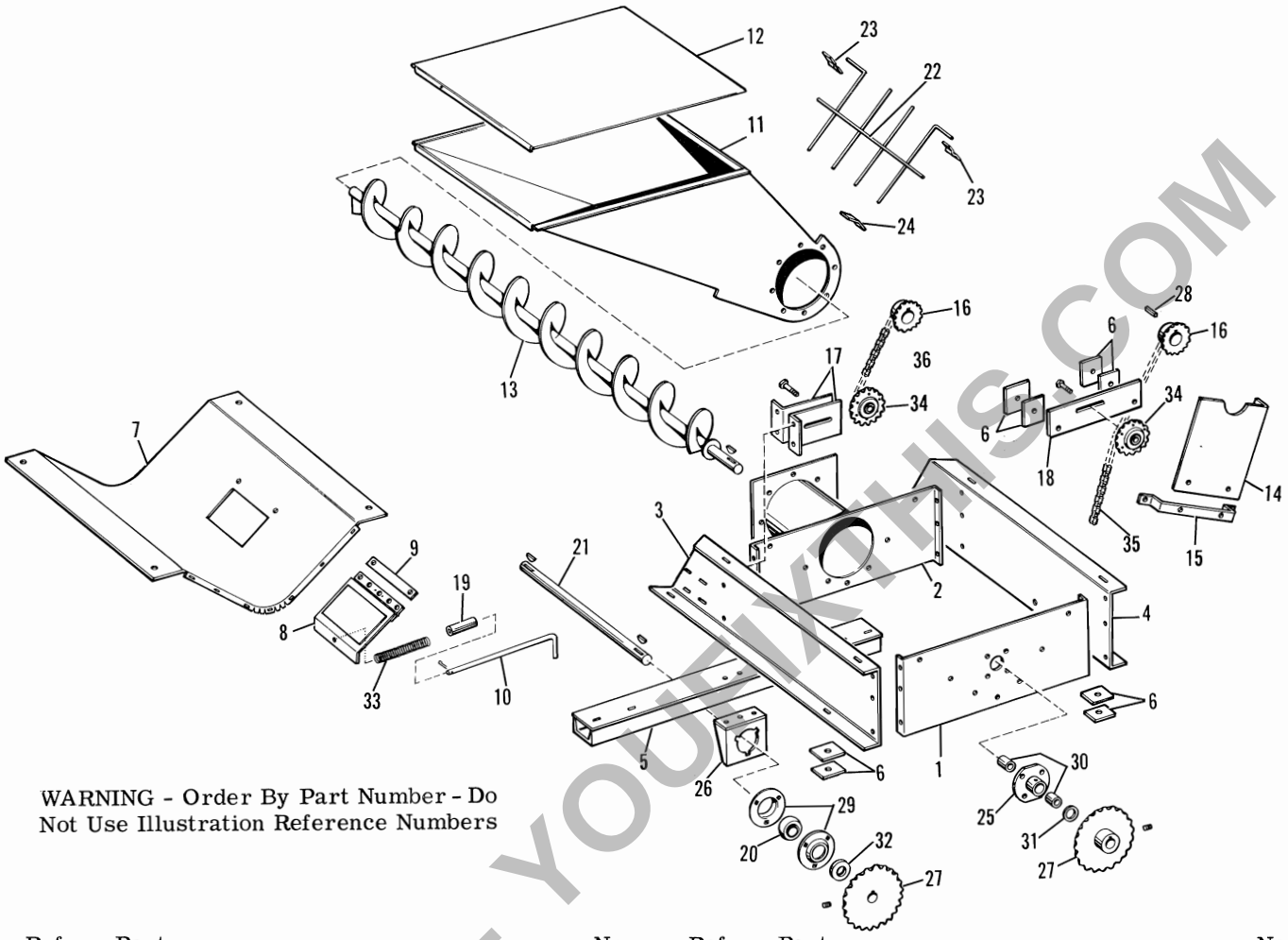
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ROLLER MILL MOUNTING GEHL

FOR #1020 S6 PEERLESS ROLLER MILL



WARNING - Order By Part Number - Do Not Use Illustration Reference Numbers

Ref. No.	Part No.	Part Name	No. Req.
1	23H1A	Mill Support - Right	1
2	23H2A	Mill Support - Left	1
3	23H3A	Mill Support - Front	1
4	23H4A	Mill Support - Rear	1
5	23H5A	Hopper Support	1
6	23H6A	Mill Support Spacer	8
7	23H9A	Conveyor Trough	1
8	23H10	Inspection Door	1
9	23H11	Hinge Spacer	1
10	23H12A	Inspection Door Handle	1
		Cotter Pin 1/8 x 3/4	1
11	23H13	Concentrate Hopper	1
12	23H14	Concentrate Hopper Cover	1
13	23H16A	Conveyor	1
		Woodruff Key 5/16 x 1	1
14	23H19A	Drive Guard	1
15	23H20A	Drive Guard Bracket	1
16	23H24	Main Drive Sprocket (16 T)	2
		Soc. Hd. Set Screw 3/8 x 3/8	2
17	23H25	Chain Tightener Bracket	2
18	23H26	Chain Tightener Bracket	1
19	23H27	Inspection Handle Spacer	1
20	520063	Ball Bearing	1
21	17H175D	Main Drive Shaft 1 x 20-3/4	1
		Woodruff Key 5/16 x 1	2
22	17H178	Hopper Guard	1
23	17H179	Hopper Guard Clip	2
24	17H180	Hopper Guard Catch	1
25	17H182	Conveyor Bearing (Includes two 9H307 Bushings)	1
		Grease Fitting 570002	1
26	17H184	Drive Shaft Bearing Holder	1
27	17H186	Driven Sprocket (32 T)	2
		Soc. Hd. Set Screw 3/8 x 3/8	4
28	17H208	Drive Sprocket Key 1/4 x 1/4 x 2	1
29	H275	Bearing Retainer	2
30	9H307	Bearing Bushing	2
31	D932A	Washer	1
32	520084	Bearing Lock Collar	1
33	H7549	Inspection Door Spring	1
34	D9130	Chain Tightener Sprocket (17 T)	2
		Hex. Hd. Cap Screw 1/2 x 2	1
		Hex. Hd. Cap Screw 1/2x2-1/4	1
35	500078	Chain of 59 Links (Including One Plain and One Offset Coupler)	1
36	500087	Chain of 92 Links (Including One Plain Coupler)	1

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