

Simplicity®

OWNER'S MANUAL

46" SICKLE BAR

MFG. NO. 785 46" SICKLE BAR

SIMPLICITY MANUFACTURING COMPANY, INC.



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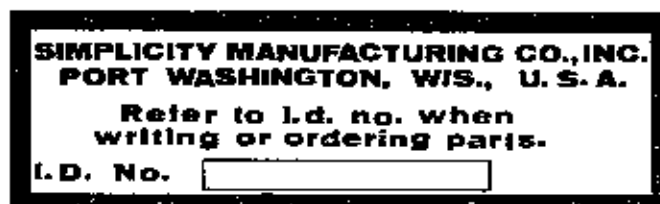
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TO THE OWNER

You have made a wise choice in selecting the Simplicity 46" Sickle Bar Mower for your tractor. It has been specially designed for your Simplicity tractor and constructed to give lasting, superior performance.

Before attempting to operate the mower, study this manual and the manual for your tractor thoroughly. Pay special attention to the safety rules in this manual as well as the tractor owner's manual. Your Simplicity equipment is designed with your safety in mind, but it is up to you to be an alert safety conscious operator. Be sure anyone else who may operate the tractor is also familiar with the operation and safety instructions.

Your Simplicity equipment requires only a minimum of care, but the maintenance instructions should be followed carefully. Thank you for taking time to read this manual. The time spent will pay big dividends in the extra time saving performance you receive from your Simplicity mower. When ordering replacement parts for your sickle bar mower, be prepared to give your Simplicity dealer the identification number found on the I.D. Plate shown below. It is located near the right end of the sickle bar. We suggest that you locate the number now, and record it below for easy reference.



IDENTIFICATION PLATE

SIMPLICITY'S NEW EQUIPMENT WARRANTY

The Company warrants Simplicity products to be free from defects in material and workmanship, except the Company makes no warranty, express or implied, with respect to tires, engines, generators and voltage regulators, which are warranted by their respective manufacturers. Any part covered by this warranty which is proven defective within one year (45 days for equipment used for rental, municipal or commercial purposes) under normal use, from date of purchase, will be replaced without charge, provided such part is returned to the factory, (if requested), and is found to be defective upon examination at the factory. This warranty does not apply to any Simplicity products altered outside of the Simplicity factory. THE FOREGOING WARRANTY IS IN LIEU OF ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, PERFORMANCE, OR OTHERWISE. The Company's obligation under its warranty is strictly and exclusively limited to the replacement of such parts, and in no event shall the Company be liable for any other damages, whether direct, immediate, incidental, special, or consequential. Simplicity Manufacturing Company, Inc., reserves the right to modify or change specifications without prior notification. There are no warranties which extend beyond the description of any Simplicity product.

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SAFETY PRECAUTIONS TO PROTECT YOURSELF AND OTHERS

- | | |
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| <p>Read and become familiar with the owner's manual for your tractor and the sickle bar mower before operating the mower.</p> <p>Do not allow anyone to use the mower unless they have been instructed in how to operate it safely.</p> <p>Never attempt to adjust, repair, or service the mower while the tractor engine is running.</p> <p>Do not allow others near the mower while it is operating.</p> <p>Stay clear of the mower drive belts, pulleys and sickle knife when the tractor engine is running.</p> <p>Be sure the sickle bar has stopped moving before attempting to adjust, repair, or service the mower. CAUTION: THE</p> | <p>SICKLE BAR MAY CONTINUE TO OPERATE A FEW SECONDS AFTER THE CLUTCH HAS BEEN DISENGAGED, AND THE ENGINE IS SHUT OFF.</p> <p>Mark clearly or remove from the area to be mowed any object which might get caught in or be struck by the sickle bar.</p> <p>Disengage power to the mower and stop the engine before leaving the operators position.</p> <p>Operate the mower only in daylight, or good artificial light.</p> <p>Be especially careful while working around the cutter bar. The cutting edges are very sharp and can cause injury.</p> <p>Use caution when operating on a sloping surface.</p> |
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SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE

MFG. NO. 785-46" SICKLE BAR MOWER

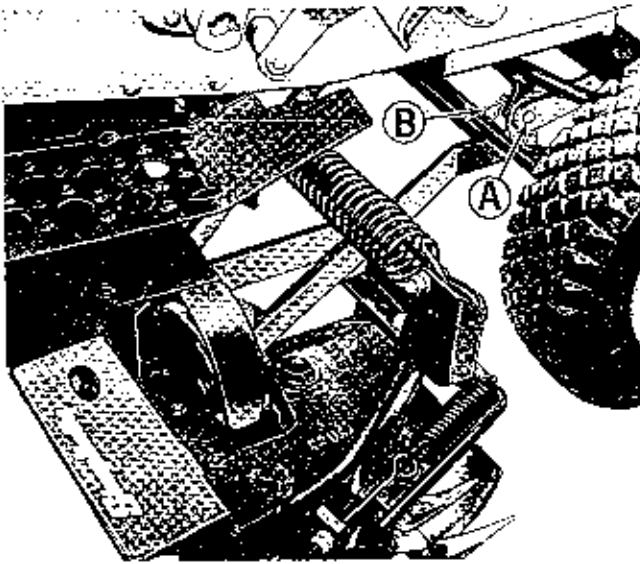


Figure 1. Sickle bar pinned to tractor axle as seen from right side of tractor.

RECOMMENDED ACCESSORIES AND OPTIONS

Rear wheel weights will give better traction and stability when mowing on hills. See your tractor owners manual for operation on slopes.

INSTALLATION

1. See figure 2. If your Simplicity dealer has not already done it for you, install the chain support (A), lift cable support assembly (H), and transport chain (Figure 6, Item B) shown. These parts need only be installed once as they can remain on the tractor when the sickle bar is removed.
2. See figure 1. Slide the sickle bar mower under the tractor from the right side and use two pins (A) and spring clips (B) to attach it to the tractor front axle.
3. See figure 2. Use a pin (G) and spring clip to attach the mower mounting chain to the tractor as shown.
4. See figure 2. Position lift cable (B) inside pulley (C) as

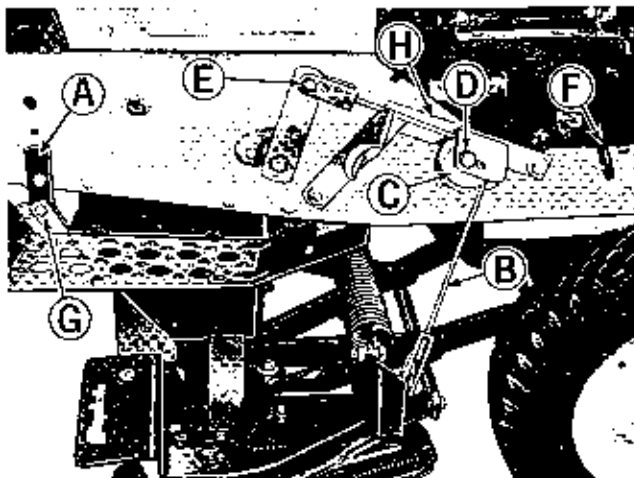


Figure 2. Right side of tractor with lift cable installed.

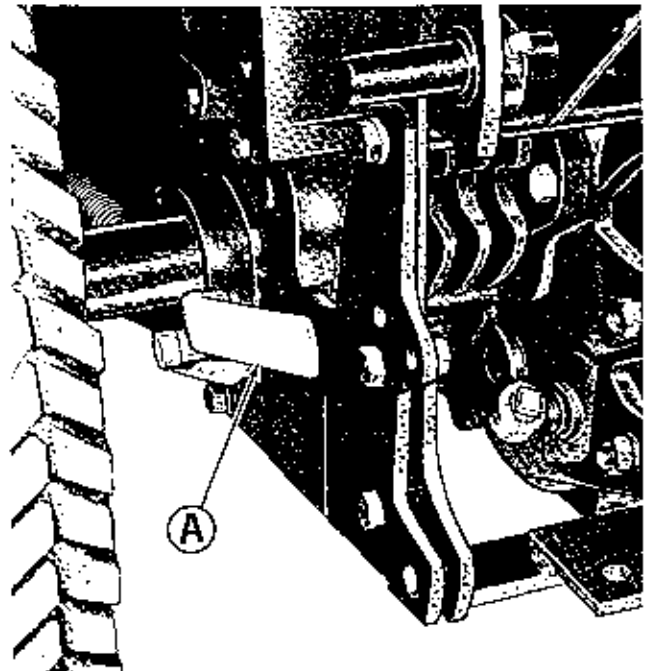


Figure 3. Belt tension lever located at rear of tractor.

shown. Pulley (C) is easily removed for doing this by removing spring clip and pin (D). Attach cable (B) to the tractor lift arm at (E) using a pin and spring clip.

5. See figure 3. Pull down on lever (A) to release the spring tension on the power take off idler pulley bracket.

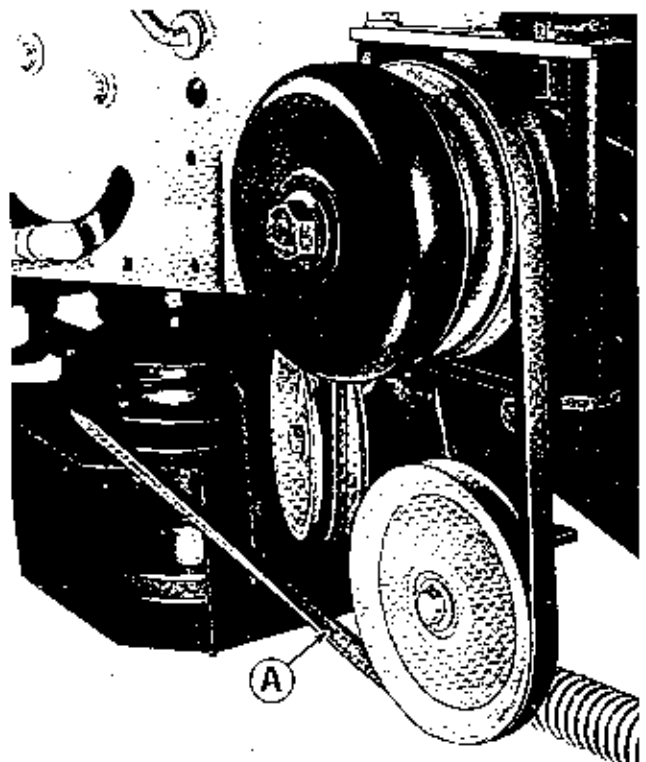


Figure 4. Drive belt installed in inner groove of power take off pulley.

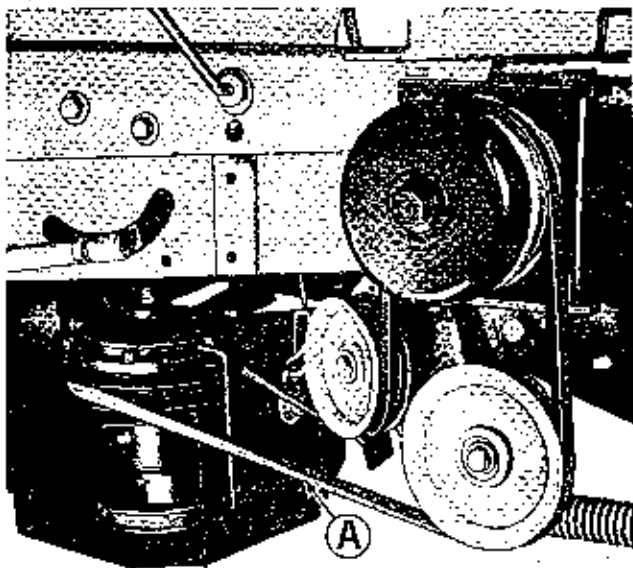


Figure 5. Drive belt installed.

6. See figures 4 & 5. Install the mower drive belt (A) over the inside groove of the power take off pulley around the idler pulleys, and the mower drive pulley. As you install the mower drive belt be sure it is twisted as shown.

7. See figure 3. Pull back on the spring tension lever (A). It will lock in position as shown in figure 3 to put tension on the mower drive belt.

8. See figure 6. If the mower is to be transported, raise the sickle bar with the tractor lift and hook at (A) as shown to hold the cutter bar up.

REMOVING THE SICKLE BAR MOWER

CAUTION: BEFORE ATTEMPTING TO ADJUST, SERVICE, OR REMOVE THE MOWER, BE SURE THE ENGINE IS SHUT OFF, THE PARKING BRAKE SET, AND

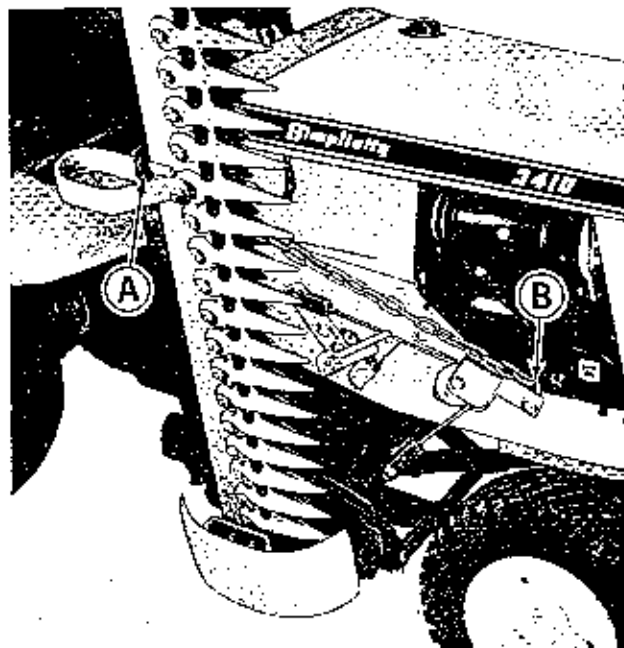


Figure 6. Sickle bar in transport position.

THE SICKLE KNIFE HAS STOPPED MOVING.

1. See figure 6. Unhook the transport chain (A) and lower the cutter bar. Store the transport chain inside the tractor frame and place the hook as shown in figure 2 at (F). Place the tractor lift in the lowered position.

2. See figure 3. Push downward on the spring tension lever (A) to release the spring tension on the mower drive belt.

3. See figure 4. Remove the mower drive belt (A) from the mower drive pulley, idler pulleys, and power take off pulley.

4. See figure 3. Position the spring tension lever (A) as shown in figure 3.

5. See figure 2. Remove the pin and spring clip at (E) to release lift cable (B) from the tractor lift arm. Remove spring clip and pin (D) and pulley (C) and remove the cable from inside pulley (C). Reinstall pulley (C) and pin (D) and secure with a spring clip.

6. See figure 2. Remove spring clip and pin (G).

7. See figure 1. Remove two spring clips (B) and pins (A) to disconnect the sickle bar mower from the tractor front axle. Slide the sickle bar mower out from under the right side of the tractor.

OPERATION

BEFORE OPERATING THE MOWER

1. Read this manual and the owner's manual for your tractor carefully. Be sure you are familiar with the safety precautions controls and operating instructions.

2. Check the mower carefully to be sure it is properly installed.

3. Be sure the tractor tires are properly inflated as explained in the tractor owner's manual.

4. Be sure the cutter bar knives are properly sectioned between the guards as explained on page 5 under sickle knife register adjustment.

5. Check the condition of the sickle knife. The knives should be tight and sharp.

6. Complete all the lubrication requirements found in the maintenance instructions on page 5 of this manual, unless you are certain they have been performed recently.

7. Clear the area to be cut of all sticks, stones, wire and other debris which might be caught by the sickle bar. Mark clearly any objects which cannot be removed.

8. Determine the best method of mowing according to the dimensions, terrain, and obstructions of the area to be mowed.

OPERATING THE TRACTOR AND MOWER TRANSPORTING THE SICKLE BAR MOWER

The sickle bar mower may be transported short distances such as across a field at moderate speed with the cutter bar raised at an angle as shown in figure 7 by using the tractor lift system. If the mower is to be transported greater distances the cutter bar should be raised to the vertical position and held with the transport chain (A) as shown in figure 6. The tractor lift should be raised enough to lift the sickle bar off the ground anytime the mower is being transported. **CAUTION:** USE CARE WHEN RAISING THE SICKLE BAR TO INSURE YOUR HANDS ARE CLEAR OF THE SICKLE KNIVES. THE KNIVES ARE VERY SHARP AND CAN MOVE AND CAUSE INJURY WHILE THE SICKLE BAR IS BEING RAISED.

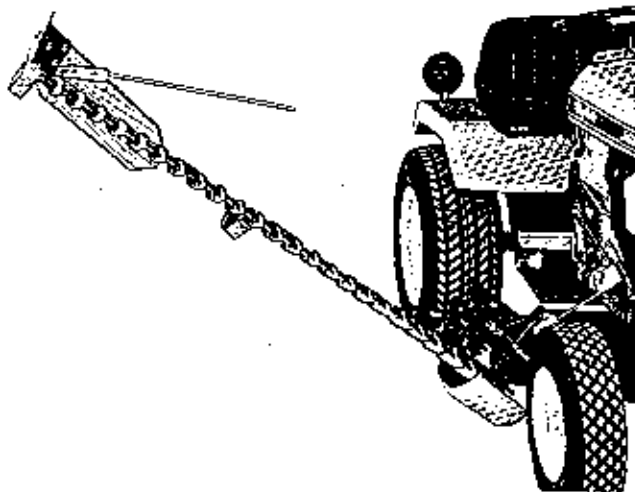


Figure 7. Sickle bar raised with tractor lift.

When transporting the sickle bar mower tractor ground speed should be adjusted according to the type and condition of the ground surface.

CAUTION: REDUCE SPEED OVER ANY AREAS WHICH ARE ROUGH, SLOPING OR WHERE THERE ARE OBSTACLES ON WHICH THE CUTTER BAR MIGHT CATCH.

LOWERING THE CUTTER BAR

After transporting the mower to the area to be cut, the sickle bar should be lowered to the operating position as shown in figure 8. **CAUTION: USE CARE WHEN HANDLING THE SICKLE BAR TO PREVENT INJURY FROM THE SHARP KNIVES.**

See figure 6. To lower the cutter bar, unhook the transport chain (A) and slowly lower the cutter bar, until it rests on the ground or is held up at an angle by the tractor lift system.

See figure 2. Place the transport chain inside the tractor frame and place the hook as shown at (F). It will remain in this position during operation and not interfere with the cutter bar.

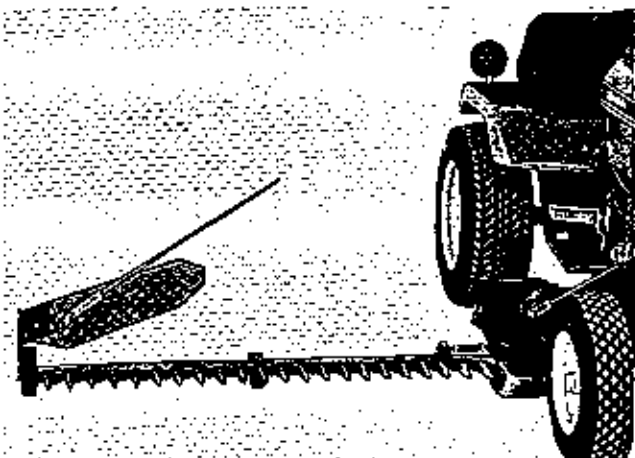


Figure 8. Sickle bar lowered to operating position.

Use the tractor lift lever or electric lift switch to lower the cutter bar so it rests on the ground.

ENGINE SPEED SETTING

The tractor engine should be operated at 3/4 to full speed when using the sickle bar mower. If the material to be mowed is light, and the ground speed slow (less than 3 MPH) 3/4 engine speed may be enough. When cutting heavier material or when ground speed is faster the engine must be operated at higher speeds so the sickle knives cut all of the material.

CONTROLLING CUTTER BAR ANGLE

When it is desirable to raise the cutter bar to lift it over objects, or for transporting short distances, the tractor lift system can be used to raise the cutter bar to an angle. The cutter bar can be raised to an angle of approximately 45 degrees. It is not necessary to disengage the mower drive when raising the cutter bar in this manner for a short period of time.

ENGAGING THE POWER TAKE OFF

See figure 9. After the tractor engine has been started and is running at about 3/4 to full speed, the mower may be engaged by pushing forward on the tractor power take off control lever (Figure 9, Item A).

CONTROLLING GROUND SPEED

The best ground speed will vary with the type of terrain and the amount and condition of the material being cut. Ground speed should be controlled by the tractor transmission. Where conditions are normal, the terrain is smooth, and the material being cut is dry, a ground speed of 3 to 4 MPH may be best. However, if the terrain is rough and the material being cut is wet or thick, a slower ground speed of about 2 MPH is sufficient. The operation chart in your tractor owner's manual shows the approximate control settings to obtain these speeds.

CUTTER BAR BREAK BACK RELEASE

The cutter bar is mounted to the mower frame so it is free to pivot or break back alongside the tractor if a solid object is struck. This mechanism helps protect the mower as well as the operator. If the cutter bar should break away while you are using it, stop the forward travel of the tractor, and disengage the mower drive. Back the tractor slowly and the cutter bar should snap back in operating position. If it does not, or if the cutter bar has been damaged, stop the engine, set the parking brake, and inspect the cutter bar. Adjustment of the break back mechanism is explained on page 5.



Figure 9. Tractor power take off control lever.

MOWING PATTERN

The size and type of area to be mowed should determine the best mowing pattern to use. Obstructions such as trees, fences, and buildings should also be considered. In general, when using a sickle bar mower it is desirable to go one round counter-clockwise around the area to be mowed to mow the grass next to fences, buildings, etc. After this first round, the remainder of the mowing should be done in a clockwise direction so that the tractor wheels do not run over the uncut area. In a rectangular area which is near square, it is usually most efficient to mow all four sides of the area. In a long narrow field, it may be easier and quicker to mow only the two long sides of the field and drive along the ends with the sickle bar slightly raised.

Turning corners when using a sickle bar mower can be done either of two ways. A sharp right turn may be made at each corner so the sickle bar swings back and immediately begins cutting the next side of the field. Making corners in this manner takes practice. When approaching a corner, use the tractor hydrostatic control lever, shuttle control lever or foot clutch to slow the tractor ground speed. Turn the tractor steering wheel quickly to the right to bring the tractor around the corner sharply. After completing the turn resume normal cutting speed.

Since the cutter bar of the Simplicity sickle bar mower can be easily raised using the tractor lift system, it may often be desirable to make corners by making a tight left turn at the end of each mowing strip. As soon as the cutter bar completes cutting a strip, raise it slightly to bring it above the cut material so it does not plug the guards and make a tight left turn of 270 degrees, and bring the tractor along the next side of the field. Making corners in this manner will normally be neater and is a little easier to do, than making sharp right hand turns.

ADJUSTMENTS

SICKLE KNIFE REGISTER ADJUSTMENT

See figure 10. To operate most efficiently the sickle knives (A) must center in the guards (B) as shown when the sickle drive mechanism is turned so that the sickle knife is as far to the right as it will go. If adjustment is required, proceed as follows:

1. See figure 10. Rotate the sickle drive pulley by hand until the sickle knife is as far to the right as it will go. **CAUTION: USE CARE WHEN WORKING AROUND THE CUTTER BAR ASSEMBLY. THE KNIVES AND GUARDS ARE VERY SHARP.**
2. Use a wrench to loosen the two nuts (C).
3. Remove nut (D) and lift the outer end of the rod end assembly off of the bolt stud.
4. Move the sickle knife until section A is lined up as shown with the nearest guard (B).
5. Rotate the outer end of the rod end as required to line it up with the sickle knife so it can be placed over the stud without moving either the mower drive mechanism or the sickle knife.
6. Reinstall the rod end over the stud and replace nut (D). Tighten nut (D) securely.
7. The amount of thread on the outside of the two nuts (C) should be equal. Before tightening them, rotate coupling (E) as necessary to center it. Tighten the two nuts (B) securely

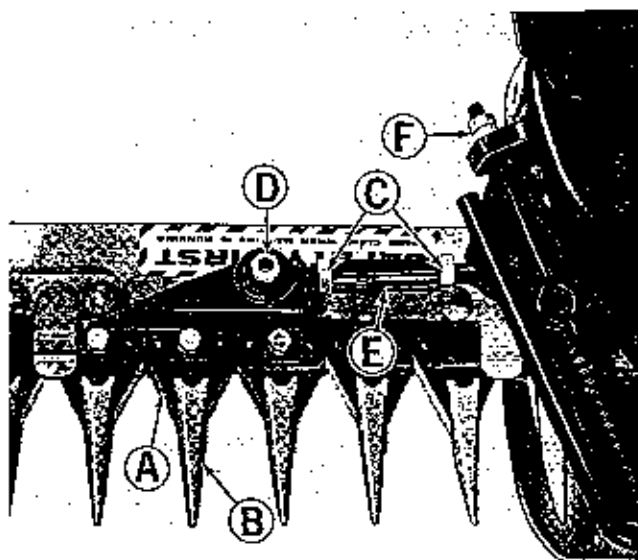


Figure 10. Sickle knife registered in sickle bar.

against coupling (E).

BREAK BACK ADJUSTMENT

The amount of force required to break away the cutter bar can be adjusted by turning the nuts at (F).

To increase the amount of force required to break away the cutter bar, turn the nuts at (F) clockwise. To decrease the amount of force required, turn the nuts counter-clockwise. Tighten the nuts securely against each other after the adjustment is completed to lock them in place.

MAINTENANCE

ORDERING REPLACEMENT PARTS

Replacement parts required for performing maintenance services or repair work should be purchased from your Simplicity dealer. When ordering parts be prepared to give him the mower identification number. If you have not already recorded this number on the inside front cover of this manual we suggest that you do so now for convenient future reference. **USE ONLY GENUINE SIMPLICITY REPLACEMENT PARTS.**

AFTER EACH USE

Inspect the sickle bar mower thoroughly for any loose or missing bolts, pins, or spring clips or worn or damaged parts. Clean or repair the sickle bar mower as needed to insure that it is ready to use the next time you need it.

EVERY HOUR OF OPERATION

To get maximum life and service from your sickle bar mower, the cutter knife (Figure 10, Item A) should be lubricated about once every hour with 30 weight engine oil. At this time the ball joints should also be lubricated with 30 weight engine oil. They are located as follows:

LOCATION

- Rod End (1)
- Rod Ends (2)

ILLUSTRATION

- Figure 11, Item B
- Figure 11, Item A

TROUBLE SHOOTING GUIDE

PROBLEM OR SYMPTOM	POSSIBLE CAUSES	CHECKS AND CORRECTIONS
Mower cuts uneven.	Cutter bar not lowered completely.	Be sure tractor lift is lowered all the way. If there is no slack in lift cable, see figure 2, and place guide pulley (C) in rear hole.
Rough looking cut - or grass being pulled out by roots.	Engine speed too slow. Ground speed too fast. Sickle knives not registered correctly. Knife edges dull.	Increase engine speed. Reduce ground speed. Adjust register as explained on page 5. Replace or sharpen sickle knives.
Cutter bar does not raise high enough (45°) using tractor lift.	Lift cable guide pulley not in correct lift bracket hole.	See figure 2. Place pulley (C) in the forward hole to increase lift.
Cutter bar breaks back too easily.	Ground speed too fast. Break-back latch not correctly adjusted.	Reduce ground speed. Adjust break-back latch. See page 5.
Cutter bar does not break back when solid object is hit.	Break-back latch not properly adjusted.	Adjust break-back latch. See page 5.
Tractor handles poorly.	Tires not properly inflated. Traveling too fast on rough or sloping ground. Not using recommended weights.	Inflate tires according to tractor owner's manual. Reduce speed. Use rear wheel weights.

EVERY 5 HOURS

A multi-purpose lithium base grease designed to operate at high temperatures must be used in the lubrication of your sickle bar mower. This grease is available from your Simpli-

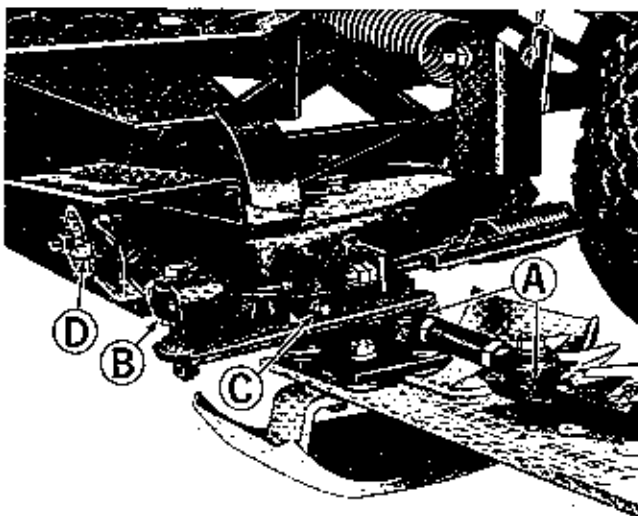


Figure 11. Lubrication points on sickle head.

city dealer. Every 5 hours lubricate the following grease fittings with 5 shots of grease or until grease is seen forced out of the bearings:

Figure 11, Item C
Figure 11, Item D

Figure 12, Item A
Figure 12, Item B

EVERY 10 HOURS

See figure 13. Every 10 hours, lubricate grease fittings A and B with multi-purpose lithium soap base grease.

It is important that these fittings not be overgreased as the excess grease may be forced out and get on the drive belts and cause them to slip. Grease fitting (B) with 5 shots, or less if pressure is felt indicating it is full or grease is seen forced out at (D). Lubricate fitting (A) only until grease appears at (C). **DO NOT OVER LUBRICATE.**

OUT OF SERVICE PROTECTION (STORAGE)

1. Remove the sickle bar mower from the tractor. See page 3.
2. Use water under pressure and a brush to thoroughly clean the sickle bar mower of any buildup of dirt or other material.
3. Cover any area where paint has been worn or chipped away with paint or a light coat of oil.

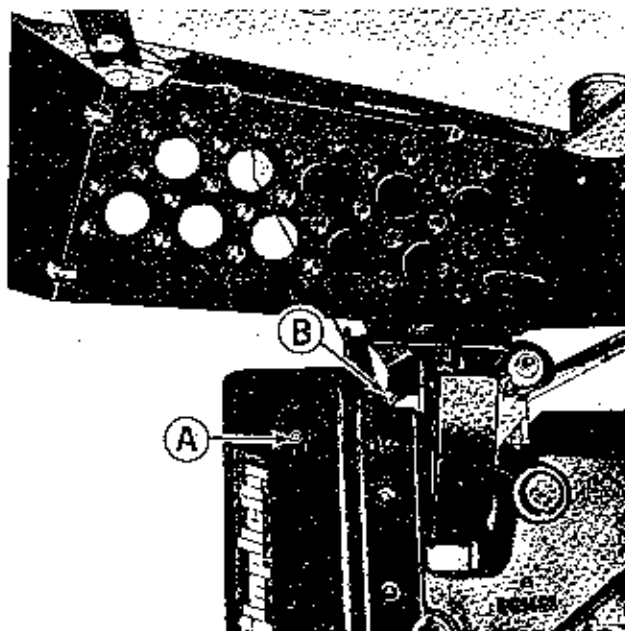


Figure 12. Mower drive assembly as seen from right side of tractor.

4. Lubricate the sickle bar mower as specified in the one, five, and ten hour maintenance paragraphs.
5. Store the mower in a dry place.

REMOVING THE SICKLE KNIFE ASSEMBLY

If it should be necessary to remove the sickle knife for replacement or repair proceed as follows:

1. See figure 14. Remove the three capscrews (A) and lockwashers from the sickle knife.
2. Slide the sickle knife out of the right end of the sickle bar.
3. Reinstall a new or repaired knife in the cutter bar and replace the three capscrews and lockwashers. These capscrews should be tightened securely. If a torque wrench is available, they should be torqued to 19-22 foot pounds.

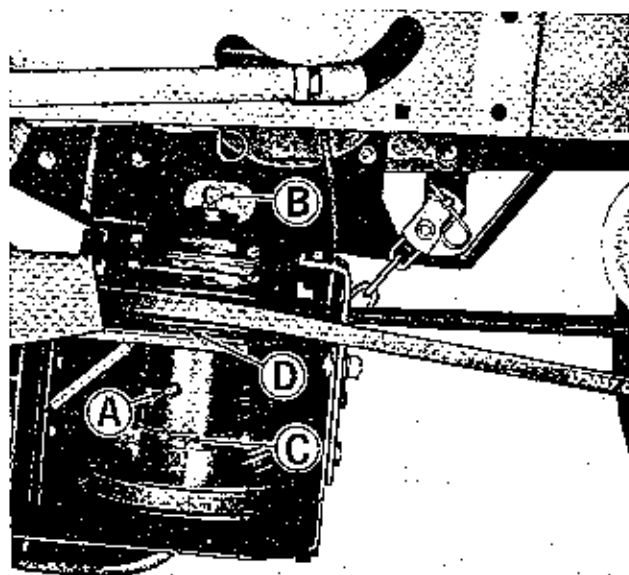


Figure 13. Mower drive assembly as seen from left side of tractor.

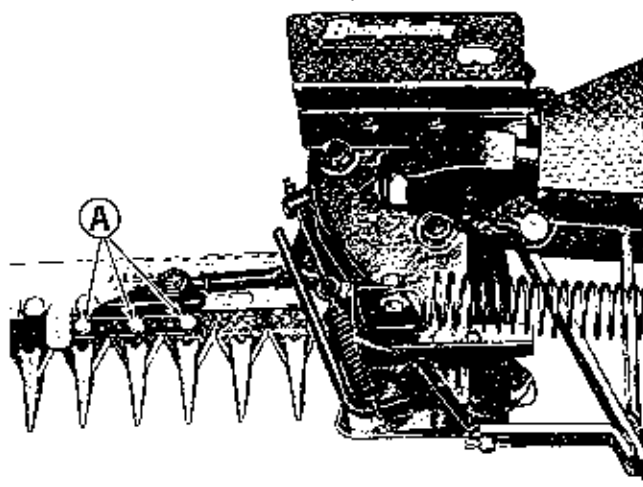


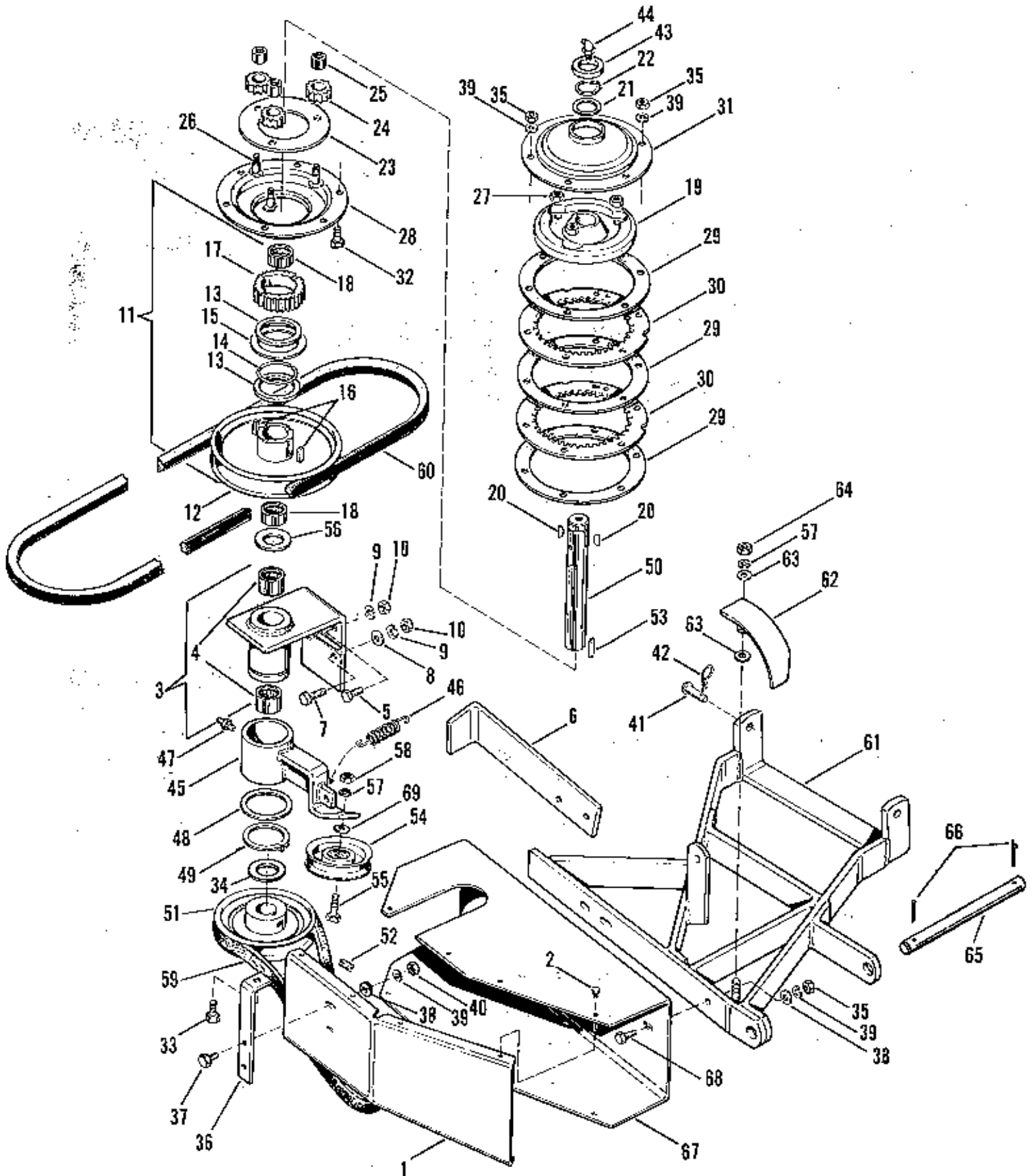
Figure 14. Sickle drive and bar as seen from above.

SPECIFICATIONS

SPECIFICATION SUBJECT TO CHANGE WITHOUT NOTICE

Effective Width	46"
Mowing Rate	Up to 1 acre an hour
Slope Mowing Angle (Relative to Tractor)	45° up 20° down
Pitman Bearings	Sealed heavy duty rolling contact.
Drive	V-belt from tractor center P.T.O. clutch through planetary reduction gear at mower head.

FRAME AND DRIVE ASSEMBLIES



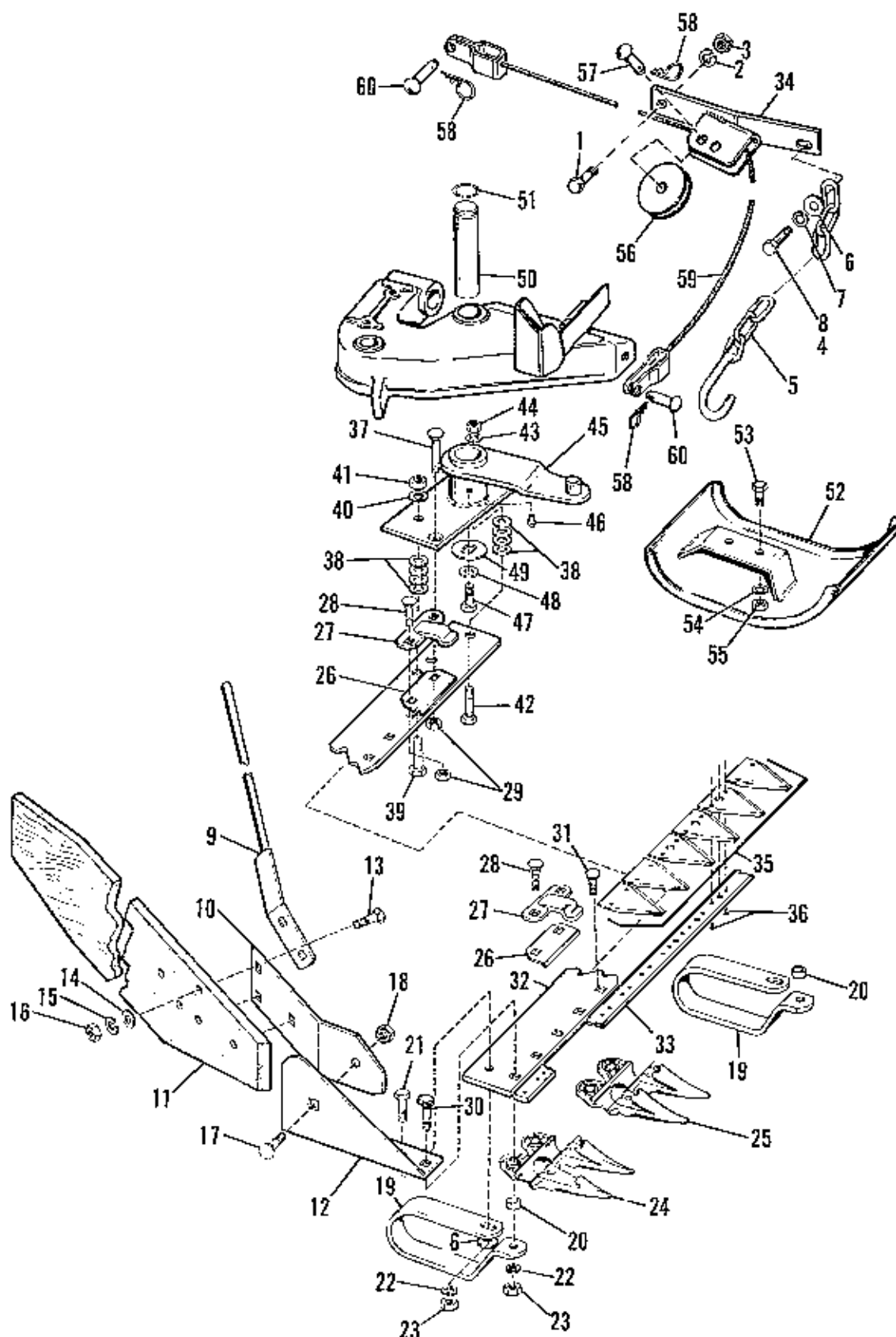
ORDER BY PART NUMBER

FRAME AND DRIVE ASSEMBLIES

Ref. No.	Part No.	Qty. Req.	Description
1	174985	1	Shield
2	714020	8	Self Tapping Screw
3	174974	1	Tube & Support Assy. w/Bearings
4	173739	2	Bearings
5	715121	2	Hex Capscrew, 5/16"-18 x 1" lg.
6	175353	1	Stop
7	705019	2	Hex Capscrew, 5/16"-18 x 1-1/4"
8	719006	2	Plain Washer, 1/4"
9	720001	4	Lockwasher, 5/16"
10	717001	4	Hex Nut, Full, 5/16"-18
11	173556	1	Pulley and Hub Assembly
12	173557	1	Hub and Pulley
13	161037	2	Washer
14	157326	1	Ring
15	161075	1	Seal
16	173570	2	Key
17	173553	1	Sun Gear
18	173738	2	Bearing
19	173542	1	Spider Hub
20	725003	2	Key
21	173668	1	Washer
22	8051040	1	Retaining Ring
23	157333	1	Ring Bolt
24	157335	3	Pinion
25	157337	3	Needle Bearing
26	157336	3	Pinion Pin
27	717530	3	Hex Nut, Full, Lock 5/16"-18
28	161054	1	Cover, Left Hand
29	161129	3	Gasket
30	157382	2	Ring Gear
31	173550	1	Cover
32	715048	5	Hex Capscrew, 5/16"-18 x 3/4"
33	715073	1	Hex Capscrew, 5/16"-18 x 7/8"
34	168055	2	Thrust Washer
35	717001	6	Hex Nut, Full, 5/16"-18

Ref. No.	Part No.	Qty. Req.	Description
36	174821	1	Bracket
37	705017	2	Hex Capscrew, 5/16"-18 x 3/4" lg.
38	719006	3	Plain Washer, 5/16"
39	720001	9	Lockwasher, 5/16"
40	717001	3	Hex Nut, Full, 5/16"-18
41	118053	2	Pin
42	8161045	2	Spring Clip
43	118118	1	Oil Seal
44	727004	2	Grease Fitting
45	174573	1	Arm Assembly
46	159159	1	Spring
47	727002	1	Grease Fitting
48	174534	1	Washer, Special
49	174527	1	Retaining Ring
50	174544	1	Shaft
51	174542	1	Pulley
52	715169	2	Set Screw, 3/8"-16 x 3/4"
53	154267	1	Key
54	106716	1	Idler Pulley
55	705016	1	Hex Capscrew, 3/8"-16 x 1-1/4"
56	168055	2	Thrust Washer
57	720002	1	Lockwasher, 3/8"
58	717013	1	Hex Nut, Full, 3/8"-16
59	174911	1	V-Belt (Mower Drive)
60	173037	1	V-Belt
61	174989	1	Frame Assembly
62	101117	1	Belt Guard Assembly
63	719001	2	Plain Washer, 3/8"
64	717003	1	Hex Nut, Full, 3/8"-16
65	101015	1	Hinge Shaft
66	722011	2	Cotter Pin, 3/16" x 1" lg.
67	174984	1	Shroud
68	705007	1	Hex Capscrew, 5/16"-18 x 1" lg.
69	719002	1	Plain Washer, 5/16"

SICKLE GROUP



ORDER BY PART NUMBER

SICKLE GROUP

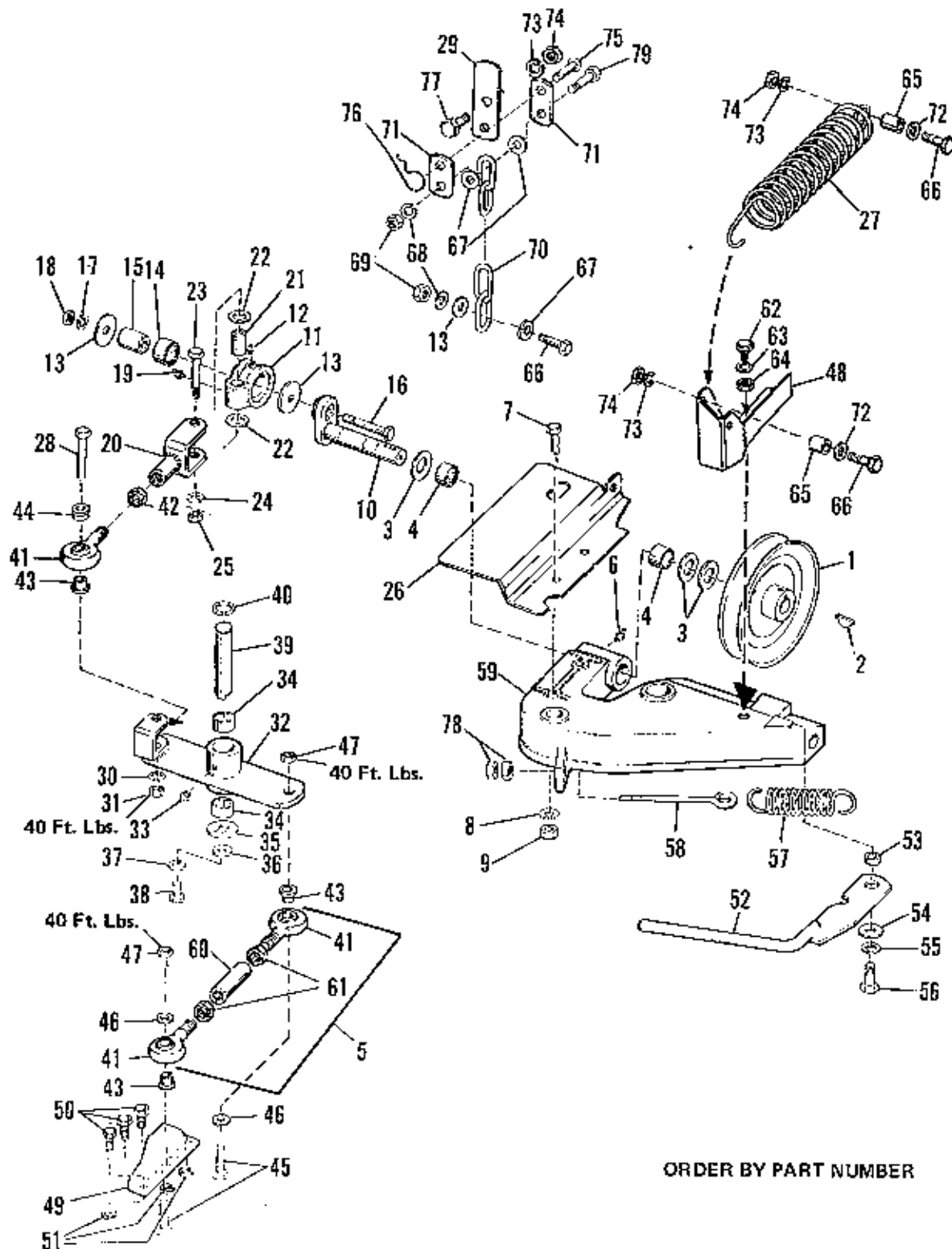
Ref. No.	Part No.	Qty. Req.	Description
1	705007	1	Capscrew, Hex Hd., 5/16"-18 NC x 1" lg.
2	720001	1	Lockwasher, 5/16" (For "725" Only-Rear)
3	717001	1	Hex Nut, Full, 5/16"-18" NC (For "725" Only-Rear)
4	715046	1	5/16"-18" NC x 1-1/4" lg. (Landlord Front)
5	101085	1	Chain Assembly, Transport
6	719001	1	Washer, Plain
7	720002	2	Lockwasher, 3/8"
8	705016	1	Capscrew, Hex Hd., 3/8"-16 NC x 1-1/4" lg. (For "725" Front)
9	101079	1	Divider Rod Assembly
10	174557	1	Support, Divider Board
11	101078	1	Board, Divider
12	174393	1	Bracket
13	702005	5	Bolt, Carriage, 3/8"-16 NC x 1-1/2" lg.
14	719001	5	Washer, Plain, 3/8"
15	720002	5	Lockwasher, 3/8"
16	717003	7	Hex Nut, Full, 3/8"-16 NC
17	108766	1	Bolt, Carriage, 3/8"-16 NC x 1" lg.
18	717510	1	Hex Nut Lock, 3/8"-16
19	101076	2	Shoe
20	153073	2	Spacer
21	705016	2	Capscrew, Hex Hd., 3/8"-16 NC x 1-1/4" lg.
22	720002	1	Lockwasher, 3/8"
23	717003	1	Hex Nut, Full, 3/8"-16 NC
24	8161138	1	Guard, Right End
25	8161135	11	Guard, Twin
26	8161136	5	Plate, Wear
27	101071	5	Clip, Sickle
28	702004	10	Bolt, Carriage, 3/8"-16 NC x 1-1/4" lg.
29	717003	24	Hex Nut, Full, 3/8"-16 NC

Ref. No.	Part No.	Qty. Req.	Description
30	705005	1	Hex Capscrew, 3/8"-16 x 1" lg.
31	702002	12	Bolt, Carriage, 3/8"-16 NC x 1" lg.
32	101070	1	Bar, Cutter
33	101069	1	Sickle Bar Assembly
34	101112	1	Pulley Mounting Assembly
35	101099	1	Complete Set of Sections
36	724010	46	Rivet, Round Head, No. 6 x 1/2" lg.
37	704001	1	Bolt, Plow, 3/8"-16 NC x 1-3/4" lg.
38	719001	9	Washer, Plain, 3/8"
39	715099	1	Capscrew, Hex Hd., 3/8"-16 NC x 1-1/2" lg.
40	720002	1	Lockwasher, 3/8"
41	717003	1	Hex Nut, Full, 3/8"-16 NC
42	715054	1	Capscrew, Hex Hd., 7/16"-14 NC x 1-1/2" lg.
43	720006	1	Lockwasher, 7/16"
44	717022	1	Hex Nut, Full, 7/16"-14 NC
45	101043	1	Lever Assembly, Cutter Bar
46	727002	1	Fitting, Grease
47	705005	1	Capscrew, Hex Hd., 3/8"-16 NC x 1" lg.
48	719001	1	Washer, Plain, 3/8"
49	101049	1	Washer
50	101031	1	Cutter Bar Shaft
51	154291	1	Ring, Retaining
52	101066	1	Shoe Assembly
53	705005	2	Capscrew, Hex Hd., 3/8"-16 NC x 1" lg.
54	720002	2	Lockwasher, 3/8"
55	717003	2	Hex Nut, Full, 3/8"-16 NC
56	101115	1	Pulley
57	102004	1	Pin Pivot
58	8161045	3	Spring Clip
59	101116	1	Cable Assembly
60	153058	2	Pin

DECALS

155061	Decal (Simplicity)
101120	Film (Safety First)
101121	Film (Engine Shut Off)
103100	Plate (Serial No.)

DRIVE GROUP



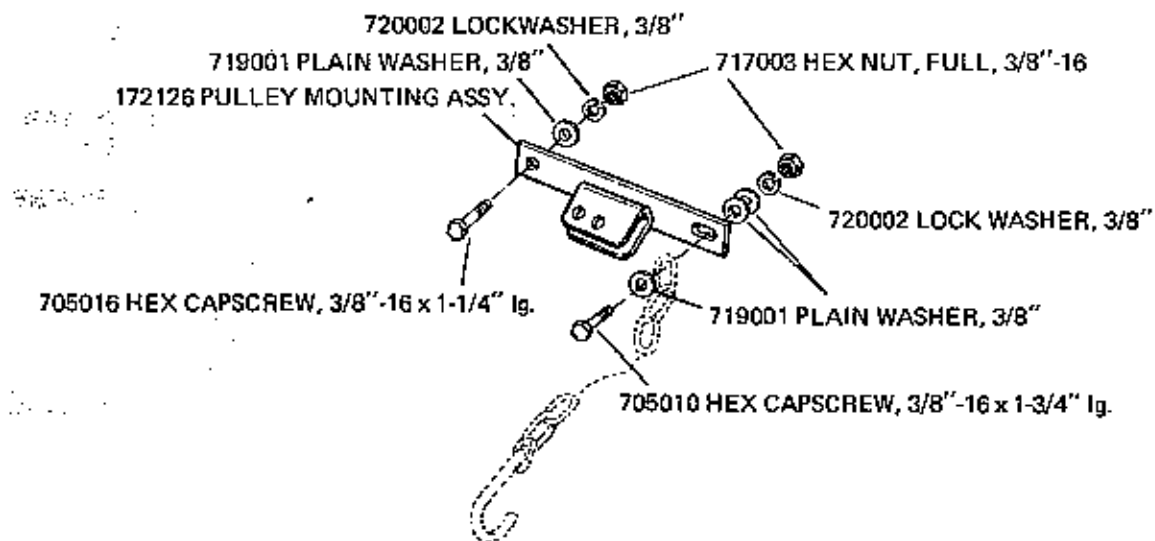
ORDER BY PART NUMBER

DRIVE GROUP

Ref. No.	Part No.	Qty. Req.	Description
1	106485	1	Drive Pulley
2	725504	1	Key, Hi-Pro
3	101022	3	Washer
4	154258	2	Bearing, Needle
5	101110	1	Rod End Assembly
6	705005	1	Fitting, Grease
7	705005	1	Capscrew, Hex Hd., 3/8"-16NC x 1-1/4" lg.
8	720002	1	Lockwasher, 3/8"
9	717003	1	Hex Nut, Full, 3/8"-16 NC
10	101006	1	Shaft, Crank
11	8161196	1	Housing, Pitman Bearing
12	727002	1	Fitting, Grease
13	8161199	3	Washer
14	8161198	1	Bearing, Needle
15	8161197	1	Race, Inner, Pitman Bearing
16	715036	1	Capscrew, Hex Hd., 3/8"-16NC x 2-1/4" lg.
17	720002	1	Lockwasher, 3/8"
18	717003	1	Hex Nut, Full, 3/8"-16 NC
19	727006	1	Fitting, Grease (45°)
20	101104	1	Clevis Assembly, Pitman
21	8161056	1	Bearing, Pivot Block
22	101025	3	Washer
23	715036	1	Capscrew, Hex Hd., 3/8"-16NC x 2-1/4" lg.
24	720002	1	Lockwasher, 3/8"
25	717003	1	Hex Nut, Full, 3/8"-16 NC
26	101103	1	Shield
27	101126	1	Spring
28	715043	1	Capscrew, Hex Hd., 3/8"-16NC x 2-1/2" lg.
29	101083	1	Chain Support
30	720002	1	Lockwasher, 3/8"
31	717003	1	Hex Nut, Full, 3/8"-16 NC
32	101095	1	Rocker Arm Assembly
33	727002	1	Fitting, Grease
34	154258	2	Bearing, Needle
35	101035	1	Washer
36	719001	1	Washer, Plain, 3/8"
37	720002	1	Lockwasher, 3/8"
38	705004	1	Capscrew, Hex Hd., 3/8"-16NC x 3/4" lg.
39	101030	1	Shaft, Rocker Arm
40	154264	1	Ring, Retaining

Ref. No.	Part No.	Qty. Req.	Description
41	101106	3	Rod End
42	717016	3	Hex Nut, Full, 1/2"-20 NF
43	101107	3	Spacer
44	101108	1	Spacer
45	715143	2	Hex Capscrew, 3/8"-24 x 1-3/4" lg.
46	157424	2	Washer
47	717515	2	Hex Nut, Full, Lock, 3/8"-24 NF
48	101134	1	Mounting Assembly Cable
49	101074	1	Head, Sickle
50	715103	3	Capscrew, Hex Hd., 5/16"-24NF x 3/8" lg.
51	720001	3	Lockwasher, 5/16"
52	101050	1	Latch Assembly
53	101053	1	Spacer, Latch
54	719003	1	Washer, Plain
55	720006	1	Lockwasher, 7/16"
56	705042	1	Capscrew, Hex Hd., 7/16"-14 NC x 1-1/4" lg.
57	101064	1	Spring
58	101065	1	Eye Bolt
59	101109	1	Hinge
60	101111	1	Pivot End Rod
61	717016	2	Jam Nut, Hex 1/2"-20 NF
62	705041	1	Capscrew, Hex Hd., 7/16"-14NC x 1" lg.
63	720006	1	Lockwasher, 7/16"
64	717022	1	Hex Nut, Full
65	153073	2	Spacer
66	705005	2	Capscrew, Hex Hd., 3/8"-16 NC x 1" lg.
67	719001	3	Washer, Plain, 3/8"
68	720002	3	Lockwasher, 3/8"
69	717003	3	Hex Nut, Full, 3/8"-16 NC
70	175359	1	Chain, Lift
71	108199	2	Link, Mower Lift
72	719001	1	Washer, Plain, 3/8"
73	720002	2	Lockwasher, 3/8"
74	717003	2	Hex Nut, Full, 3/8"-16 NC
75	153058	1	Pin
76	8161045	1	Clip, Spring
77	705005	2	Capscrew, Hex Hd., 3/8"-16NC x 1" lg.
78	717001	2	Hex Nut, Full, 5/16"-18 NC
79	705016	1	Capscrew, 3/8"-16 x 1-1/4"

PULLEY MOUNTING ASSEMBLY

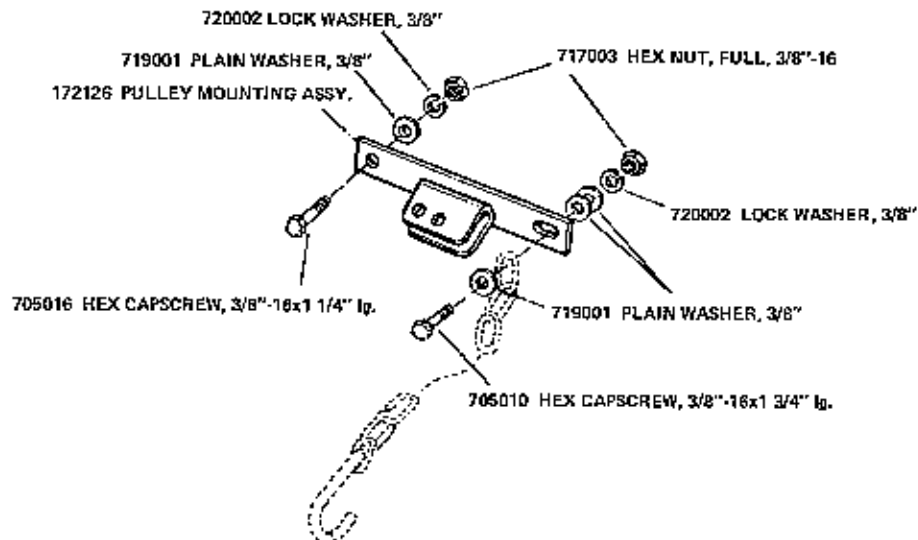


ORDER BY PART NUMBER

DRIVE GROUP

ORDER BY PART NUMBER

Reference Letter	Part No.	Description
CM	101109	Hinge
CN	101111	Pivot End Rod
CP	717016	Nut Hex Jam 1/2" -20 NF
CQ	705041	Capscrew, Hex Hd., 7/16"-14 NC x 1" lg.
CR	720006	Washer Lock 7/16"
CS	717022	Nut, Hex Full
CT	153073	Spacer
CU	705005	Capscrew, Hex Hd., 3/8"-16 NC x 1" lg.
CV	719001	Washer, Plain, 3/8"
CW	720002	Lockwasher, 3/8"
CX	717003	Nut, Hex, Full, 3/8"-16 NC
CY	175359	Chain, Lift
CZ	108199	Link, Mower Lift
DA	719001	Washer Plain 3/8"
DB	720002	Washer Lock 3/8"
DC	717003	Hex, Nut, Full 3/8"-16 NC
DD	153058	Pin
DE	8161045	Clip, Spring
DF	705005	Capscrew, Hex Hd., 3/8"-16 NC x 1" lg.
DG	717001	Nut, Hex, Full, 5/16"-18 NC



THESE PARTS TO BE USED WITH 1971 TRACTORS ONLY.

