

PARTS LISTS AND INSTRUCTIONS

42" ROTARY MOWER

FACTORY ORDER NUMBER 5-1700

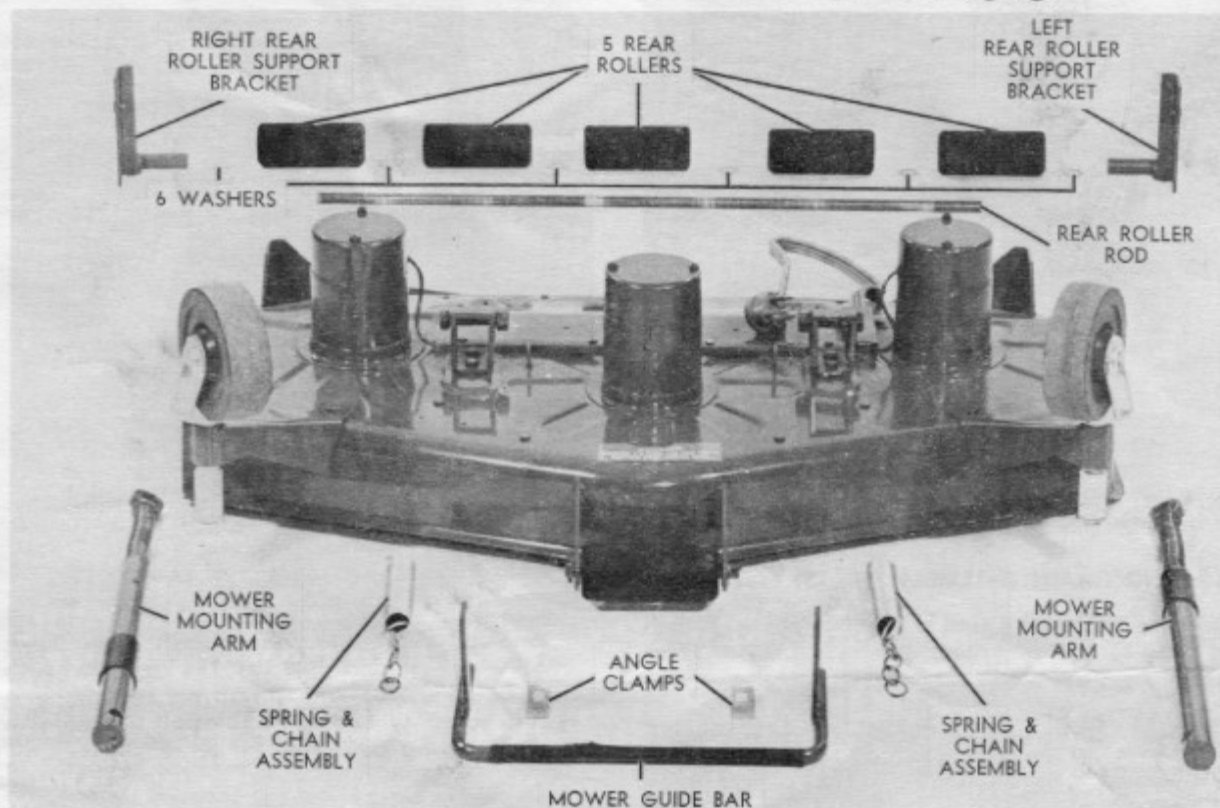


FIG. 1. 42" Mower Package (5-1700)

ASSEMBLY

REAR ROLLER ASSEMBLY (Fig. 2)

Remove mower and parts from the carton and identify parts as shown in Fig. 1. Invert the mower deck. The mower is designed with an adjustable cutting height that can be set at $1\frac{1}{2}$, 2, $2\frac{1}{2}$, 3, $3\frac{1}{2}$ and 4 inches. Select the cutting height best suited to your needs (2 to 3 inches is most often recommended).

Locate the two rear roller support brackets. Using the thumb screw, lockwasher and washer (that are preinstalled in the mower deck) install the left rear roller support bracket to the mower deck. **DO NOT TIGHTEN.**

The mower deck offers 5 height adjustment holes in which the guide pin of the rear roller support bracket can be installed. (See Fig. 2). The top hole sets the mowing height at $1\frac{1}{2}$ ". The bottom hole sets the mowing height at 4". Select the desired cutting height and tighten the thumb screw.

Locate the Rear Roller Rod, 6 washers and 5 rollers. Insert the Rear Roller Rod into the Left Rear Roller Support Bracket that is now attached to the mower deck. Install the 5 rollers onto the rod so that there is one washer on each side of outside rollers, and one washer between each roller.

Slip the right rear roller support bracket over the rear roller rod. Attach this support bracket to the mower deck using the preinstalled thumb screw, lockwasher, and washer. Before tightening the thumb screw, be sure the cutting height adjustment is the same as the left bracket.

Return the mower deck to its normal upright position.

MOWER MOUNTING ARMS

Locate the two mower mounting arms. Using the $\frac{5}{8}$ " bolts and nuts, (preinstalled in the mower deck) mount these arms to the brackets provided for them on the mower deck.



WHEEL HORSE

lawn & garden tractors

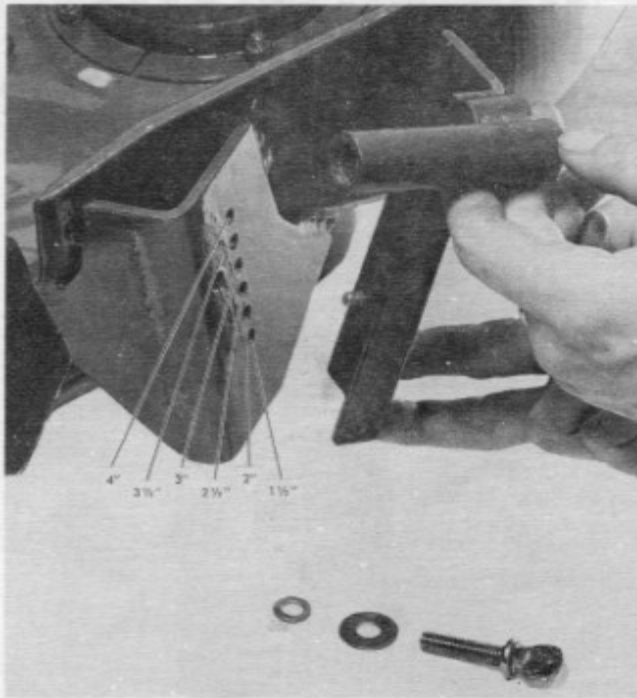


FIG. 2. Rear Roller Adjustment

SPRING AND CHAIN ASSEMBLY (Fig. 3)

Locate the two spring and chain assemblies. Attach the springs to the mounting brackets provided for them on the mower deck. (See Fig. 3).

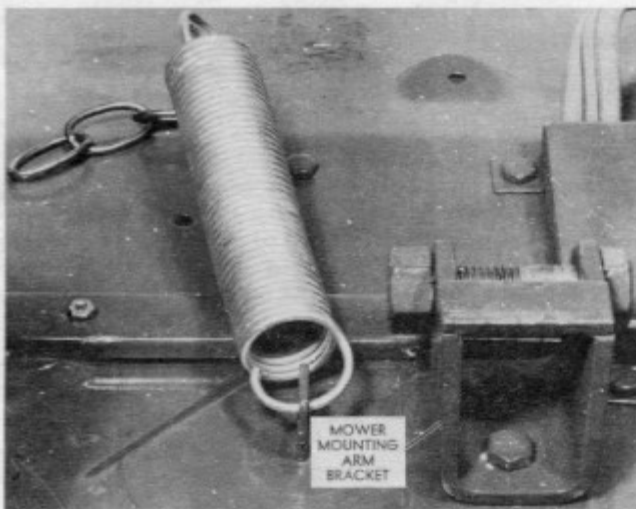


FIG. 3. Spring and Chain Mounting

FRONT CASTER WHEELS (Fig. 4 & 5)

Remove the spring pin from the front left caster wheel shaft. (See Fig. 4). Allow the metal washer and the nylon bushings to drop off the shaft.

Remove the caster wheel, being careful not to remove the bottom nylon bushing.

The 5 nylon spacers are used to set the mowing height of the front of the mower. Each spacer represents a $\frac{1}{2}$ inch difference in cutting height. Installing all 5 spacers **ABOVE** the mower deck bracket sets the mowing height at $1\frac{1}{2}$ inches. Installing all 5 spacers **BELOW** the mower deck sets the mowing height at 4 inches.

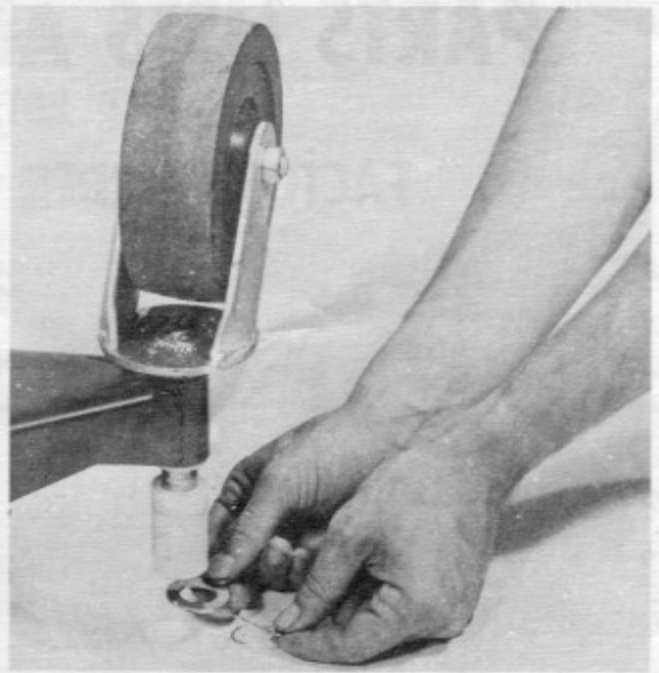


FIG. 4. Caster Wheel Removal

Install the proper amount of spacers to go **BELOW** the mower deck bracket onto the caster wheel shaft.

Reinstall the caster wheel shaft from the bottom into the mower deck bracket. The caster wheel should now be on the bottom. Install the remaining spacers on the caster wheel shaft. Reinstall the metal washer and the spring pin. (See Fig. 5).

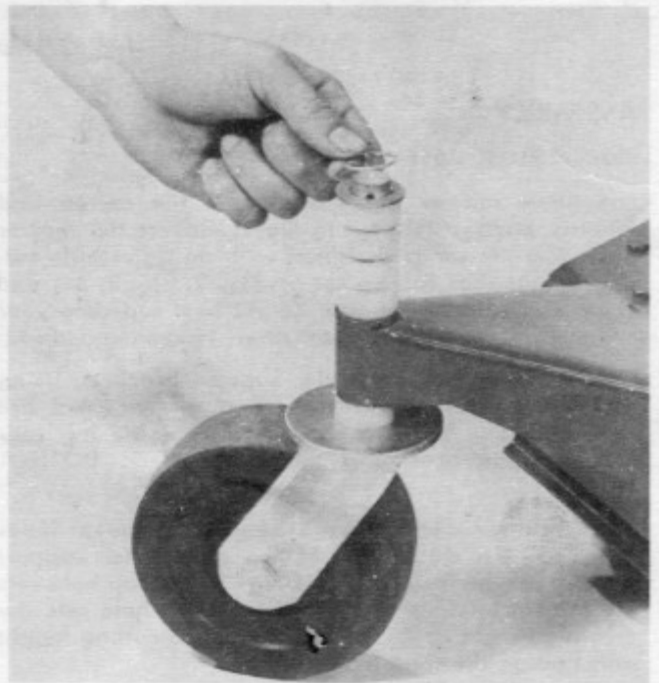


FIG. 5. Caster Wheel Installation

Repeat this procedure for the right caster wheel. Make sure both wheels have the same amount of spacer above and below the mower deck bracket, and the height adjustment is the same for front and rear.

INSTALLATION

MOWER GUIDE (Fig. 6 & 7)

Locate the "U" shaped mower guide and the two angled clamps supplied with it. Hold the mower guide so the two rectangular tabs point toward the rear of the tractor. (See Fig. 6). Insert one of the tabs into the A frame slot approximately $\frac{1}{2}$ inch.

Push the Mower Guide sideways and insert the second tab into its respective frame slot. Push the Mower Guide against the front bumper of the tractor.

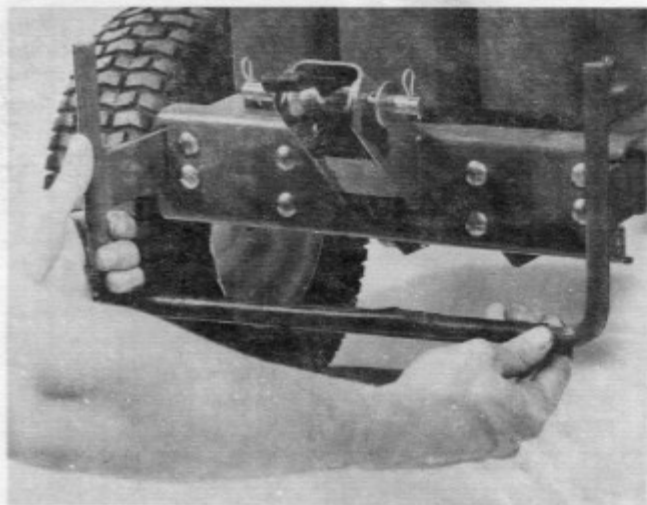


FIG. 6. Front Mower Guide Installation

Remove the upper right carriage bolt from the tractor bumper. Insert the bolt through one of the Angled Clamps. Reinstall the bolt so the angled clamp will hold the mower guide in place. (See Fig. 7).

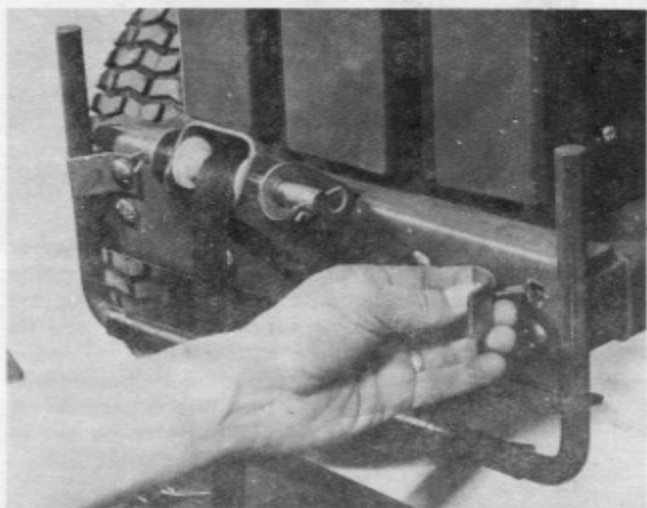


FIG. 7. Mower Guide Clamp Installation

Repeat this procedure for the upper left bumper bolt.

MOWER ARMS (Fig. 8)

Center the mower in front of the tractor with the caster wheels in front and the mower arms toward the rear. Adjust the mower so there is approximately $4\frac{1}{2}$ " between the front tire and the mower deck.

Using the preinstalled clevis and hairpin cotter pins (supplied with the tractor), install the left Mower Arm. (See Fig. 8). Install the right Mower Arm.

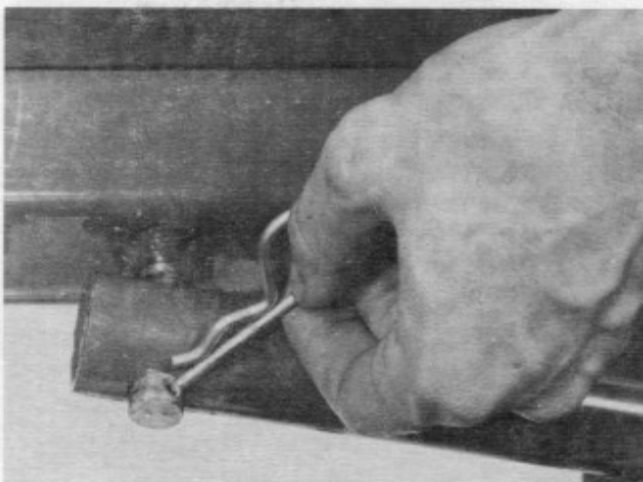


FIG. 8. Attach Mower Arms

LIFT STRAP (Fig. 9 & 10)

Thread the lift strap (Fig. 9) under roller (a) and over roller (b) so that it can be attached to the mower (c).

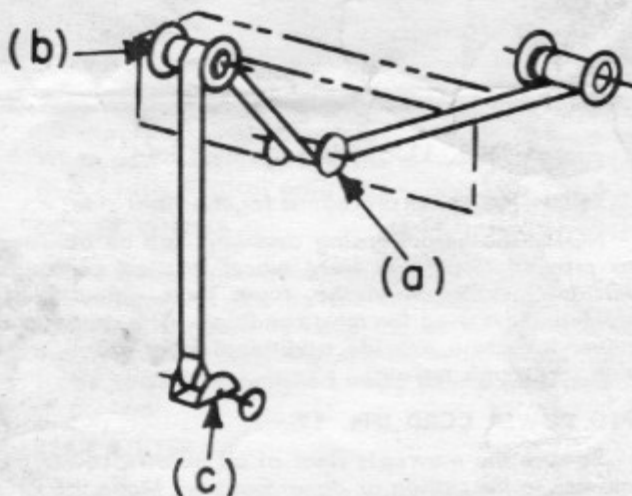


FIG. 9. Lift Strap Threading

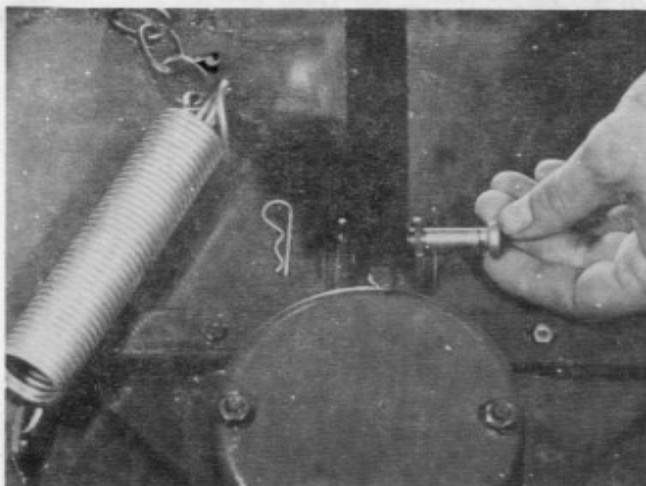


FIG. 10. Attach Lift Strap

Lower lift strap until the strap touches the mower deck. Remove the preinstalled hairpin cotter pin and clevis pin from the lift bracket on the mower deck. Center the lift strap into the bracket and reinstall the clevis and hairpin cotter pin. (See Fig. 10).

HELPER SPRINGS (Fig. 11)

Using the tractor's electric lift, raise the mower to a horizontal position.

Remove the hairpin cotter pin and retaining washer from the left side of the front lift axle. Install the helper spring chain and reinstall the retaining washer and hairpin cotter pin. (See Fig. 11).

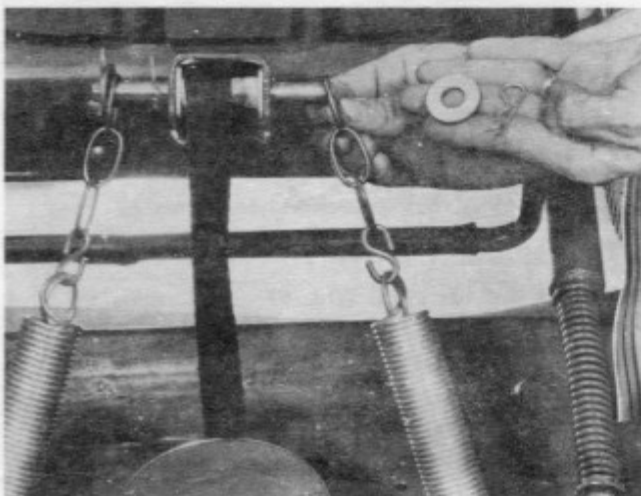


FIG. 11. Helper Spring Chain

Follow the same procedure for the right side.

NOTE: The helper spring assembly can be adjusted to provide additional front wheel traction on rough terrain. Installation of the upper links onto the lift guide axle is used for most conditions. The center and lower links will provide additional front wheel traction (on rough terrain).

PTO POWER CORD (Fig. 12)

Be sure the mower is clear of all objects. Lower the mower to its cutting or down position. Move the PTO switch to the "OFF" position, turn the Key Switch to the "OFF" position, remove the key and push down on the Power Disconnect Lever BEFORE plugging the PTO Power Cord into the tractor's PTO receptacle. (See Fig. 12).



FIG. 12. PTO Receptacle

After the PTO Power Cord is plugged into the tractor, sit on the seat and engage the Power Disconnect Lever. Turn the key switch to the "ON" position and test the mower by activating the PTO switch.

BE SURE THE MOWER IS CLEAR OF ALL OBJECTS AND PERSONS BEFORE STARTING THE MOWER.

The mower is now ready for use.

REMOVAL

The mower is easily removed from the tractor by first pushing down on the Power Disconnect Lever, then disconnecting the PTO Power Cord, Helper Spring Assemblies, Lift Strap and Mower Arms. For more detailed instructions follow the "INSTALLATION" procedure in a reverse order.

The Mower Guide must be removed only to mount a Snow/Dozer Blade or a Snowthrower.

ADJUSTMENTS

⚠ CAUTION ⚠

Never handle the mower or make adjustments while the power cord is plugged into the PTO receptacle.

The cutting height of the mower may be adjusted from 1½ inches to 4 inches in ½ inch increments. Height adjustment is made as follows:

1. Remove the power cord from the PTO receptacle.
2. Raise the mower by the lift to its "Up" position.
3. Hold one of the front casters and remove its retaining pin.
4. Slide the caster downward free of the support.
5. Reassemble the caster with the desired number of ½ inch spacers below the support and the remaining spacers above the support. Secure with the plain washer and spring pin and adjust the other caster similarly.
6. Adjust the rear roller at each end. The number of holes on the roller adjuster above the guide pin should correspond to the number of spacers used under the caster support. If there are no spacers below (all five spacers on top), each side of the roller adjuster should be secured in the top guide pin hole. Using one spacer below the support requires the adjusters to be set in the second hole from the top, and so on.

MOWER OPERATION

The operator must be seated on the tractor and the key switch turned to "On" before the PTO switch can be turned "On" to start the mower. An electrical interlock prevents mower starting if this procedure is not followed. Once the mower is running, if the operator leaves the seat, or turns the key switch to "Off", another interlock operates which not only interrupts mower power, but also stops blade rotation immediately by a dynamic braking action. To restart, the starting procedure must be repeated. For all normal use, the PTO switch should be used to turn the mower on and off.

For maximum drive motor torque and most efficient use of power, the speed control should be maintained in the recommended position whenever possible. Advancing the speed lever (or pedal) increases the speed on normal terrain, but may cause decreased speed when going uphill, because the motor torque is reduced. The D1 range is best for average to heavy mowing, and D2 may be used for lighter duty, faster mowing.

When mowing on steep hillsides, the travel should be up and down.

WARNING

Care should be exercised to avoid sudden starts and stops, which may cause loss of control. The tractor motor will offer some braking action provided the speed control is not returned to neutral. Maximum braking is obtained with the speed control in the drive position, or cruise control. Whenever operation on hillsides is required, the rear tractor wheels should be assembled in the "widetread" position for increased stability. (Refer to your tractor Owners Manual.)

CUTTING

Always mow with sharp blades. The blades can be sharpened in place on the mower. Always disconnect the power cord before working on the mower. After several sharpenings the blades should be checked for balance. Unbalanced blades can shorten the life of the mower motor bearings.

For good appearance of the mowed lawn, it is important to have the mower adjusted correctly for height of cut. (See section on Adjustments.) Unequal adjustments can affect the cutting appearance because the blades will not be level.

After determining that the mower is set for level mowing as described above, the best height of cut should be determined. It is suggested that the use of two spacers below the caster support be tried first. Closer cutting can be obtained with fewer spacers, but care must be used not to scalp uneven parts of the lawn. As the cutting height is increased to more than 2 spacers, some types of grass and turf may begin to show the wheel tracks where the grass is long enough to be rolled down and not spring back up.

If the tractor tracks the lawn or gives a bumpy ride, check the rear tire pressure. The pressure should be 8-10 psi.

GROUND SPEED

Average to heavy mowing should be done in the D1 range. Light mowing may be done in the D2 range if the tractor speed is not too fast. If the cut is not even and clean, the blades should be checked for sharpness or a lower speed or range selector position should be used.

If the mower motor becomes overloaded due to high grass, obstructions, clogging, or jamming, that motor may shut off momentarily. This occurs due to the opening of a circuit breaker which prevents motor damage. After a short interval for cooling, the circuit

breaker will reset automatically and the motor will restart. If the breaker continues to interrupt motor power, after loading has been reduced, **remove the power cord from the PTO receptacle** and check the blades for clogged grass.

CLEANING

It is recommended that the mower deck be cleaned after each use to maintain maximum mowing effectiveness and reduce the likelihood of blade clogging. Immediately after each use, expose the underside of the mower by lowering the mower, removing the power cord from the PTO receptacle, and picking up the front edge of the mower using the front roller as a handle. When positioned properly, the mower will stand freely in a nearly vertical position. In this position, cleaning is easily done by scraping the grass from the mower housing.

CAUTION

WARNING: Always disconnect power cord from PTO receptacle before handling the mower for any reason.

SERVICE AND MAINTENANCE

BEFORE HANDLING THE MOWER, REMOVE THE POWER CORD PLUG FROM THE PTO RECEPTACLE. Mower deck cleaning and blade sharpening can then be performed safely after lowering the lift to increase lift strap slack and lifting the front edge of the mower. When positioned properly, the mower will stand freely in a nearly vertical position.

CASTER WHEELS

The front caster wheels must swivel easily for good performance in driving the mower, especially when trimming. Be sure to keep the caster spindles clean and free from rust. Any spindle which does not turn freely should be polished using emery cloth and oiled or greased.

REAR ROLLER

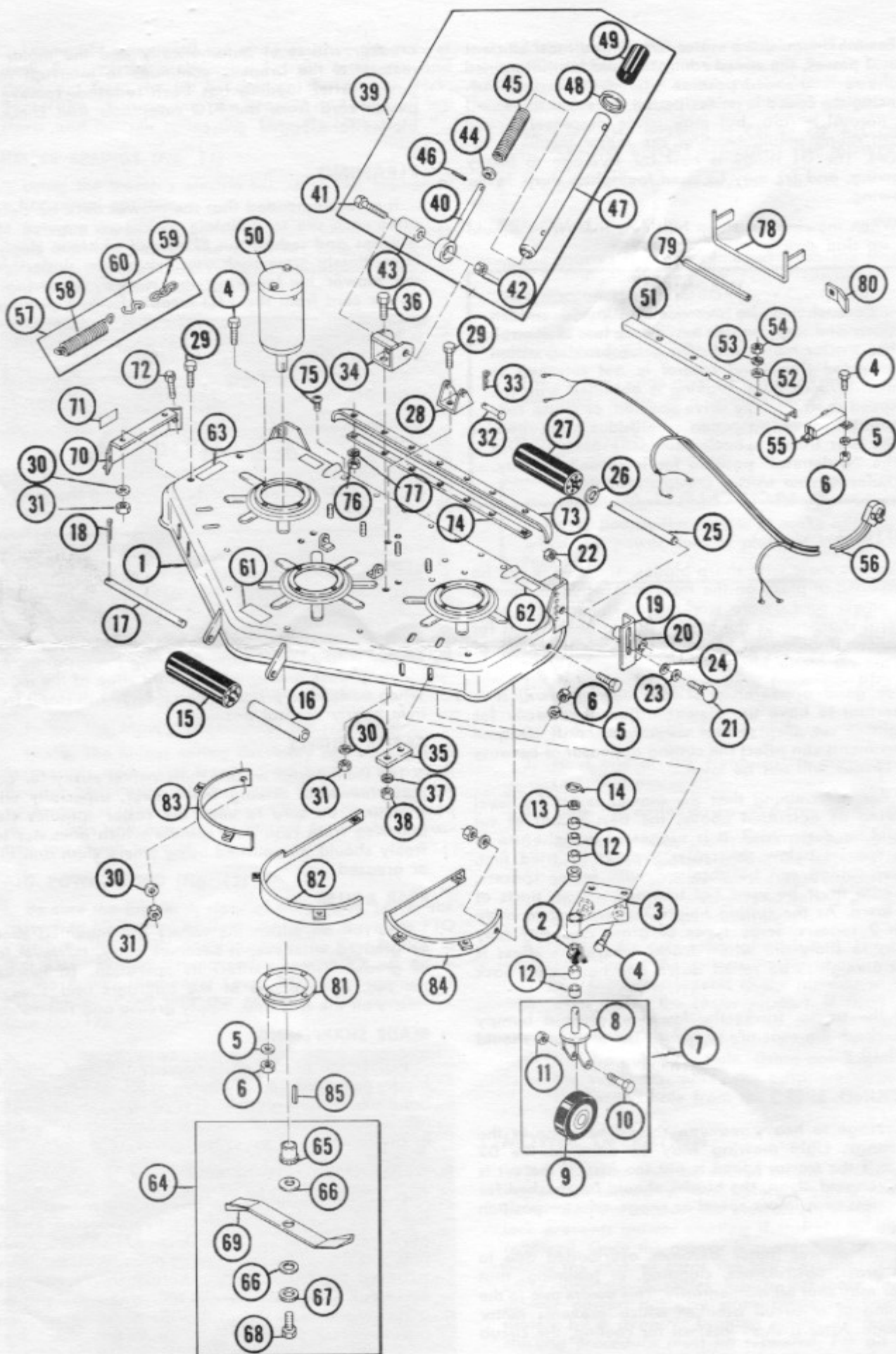
The rod on which the rollers are mounted should be greased whenever it becomes noisy, however lack of grease will not affect its operation. To lubricate the rod, remove one of the adjusters and slide all rollers off the free end. Apply grease and reassemble.

BLADE SHARPENING

Expose the blades as previously outlined. With the blades mounted, "touching up" may be done with a hand file. If light regrinding is required, care must be taken to grind equal amounts from the cutting edges of any blade to prevent unbalance.

WEAR SLEEVE REPLACEMENT

The black plastic wear sleeves on the mower mounting arms should be periodically inspected and replaced if necessary. The replacement sleeves are low cost and should be replaced in pairs. With the mower removed from the tractor, the old sleeve can easily be slid off the mounting arm and a new one put in its place. Make sure the replacement sleeve is against the ring stop on the arm.



**PARTS LIST FOR MOWER
FACTORY ORDER NUMBER 5-1700**

Parts available only through Authorized Dealers.
When ordering parts always list Part No. and Description.
(Specifications subject to change without notice.)

ITEM NO.	PART NO.	DESCRIPTION	NO. REQ'D.
1	522314	Mower Deck	1
2	517447	Caster Bearing	4
3	521973	Caster Support	2
4	513339	Bolt, Hex $\frac{5}{16}$ -18 x $\frac{3}{4}$	8
5	513515	Lockwasher — $\frac{5}{16}$	8
6	513277	Nut, Hex $\frac{5}{16}$ -18	8
7	519461	Caster Assembly	2
8	517269	Caster Yoke	1
9	517422	Caster Wheel	1
10	513383	Bolt, Hex $\frac{1}{2}$ -13 x $3\frac{1}{8}$	1
11	513426	Locknut — $\frac{1}{2}$ -13	1
12	517466	Spacer	10
13	513462	Washer — $\frac{3}{4}$	2
14	517573	Spring Pin	2
15	518169	Front Roller	1
16	519872	Tubing	1
17	518218	Shaft	1
18	513558	Cotter Pin — $\frac{1}{8}$ x 1	2
19	515869	Right Rear Roller Adjuster	1
20	515870	Left Rear Roller Adjuster	1
21	518170	Thumb Screw — $\frac{3}{8}$ -16	2
22	513425	Locknut — $\frac{3}{8}$ -16	2
23	513517	Lockwasher — $\frac{3}{8}$	2
24	513469	Washer — $\frac{3}{8}$	2
25	518170	Rear Roller Shaft	1
26	518215	Washer	6
27	517036	Rear Rubber Roller	5
28	517444	Lift Clevis Bracket	1
29	513315	Bolt, Hex — $\frac{1}{4}$ -20 x $\frac{5}{8}$	28
30	513513	Spring Lockwasher — $\frac{1}{4}$	29
31	513292	Nut, Hex — $\frac{1}{4}$ -20	29
32	517628	Clevis Pin	1
33	518033	Hairpin Cotter	1
34	519135	Mower Arm Mounting Bracket	2
35	520320	Reinforcement Plate	2
36	513358	Bolt, Hex — $\frac{3}{8}$ -16 x 1	1
37	513517	Spring Lockwasher — $\frac{3}{8}$	4
38	513278	Nut, Hex — $\frac{3}{8}$ -16	4
39	523063	Mower Arm Assembly	2
40	523064	Lower Mower Arm Rod	1
41	908092	Bolt, Hex — $\frac{5}{8}$ -11 x 3"	1
42	915667	Nut, Hex — $\frac{5}{8}$ -11 Prevailing Torque	1
43	520414	Rubber Bushing	1
44	513460	Washer — $\frac{5}{8}$ Narrow	1
45	518221	Spring	1
46	513519	Roll Pin — $\frac{1}{4}$ x $\frac{13}{16}$	1
47	523063	Top Mower Arm Tube	1
48	519405	Retaining Ring	1
49	519404	Mower Wear Sleeve	1
50	515642	Mower Motor	3
51	521943	Wire Cover	1
52	513481	Washer — #8	4
53	513535	Lockwasher — #8	4
54	513289	Nut, Hex — #8-32	4
55	521946	Wire Box	1
56	516255	Wire Harness	1
57	519255	Helper Spring Assembly	2
58	517551	Helper Spring	1
59	519253	Chain	1
60	519254	"S" Hook	1
61	517656	Caution Decal	1
62	517655	Caution Decal	2
63	516926	Height Adjustment Decal	1

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ITEM NO.	PART NO.	DESCRIPTION	NO. REQ'D.
64	516001	Blade Clutch Assembly	3
65	518119	Clutch Body	1
66	518113	Fiber Washer	2
67	518131	Clutch Washer	1
68	517789	Self Locking Cap Screw — $\frac{5}{16}$ -24 x $1\frac{1}{2}$	1
69	515903	Mowing Blade	3
70	517746	Side Cover — w/Decal	1
71	517657	Caution Decal	1
72	513318	Bolt, Hex $\frac{1}{4}$ -20 x $\frac{3}{4}$	1
73	517974	Rear Mower Flap	1
74	517978	Rear Mower Strip	1
75	513719	Screw, Phillips Pan HD. #10-32 x $\frac{3}{16}$	7
76	513287	Nut, Hex #10-32	7
77	513536	Spring Lockwasher #10	7
78	522095	Front Mower Guide	1
79	518460	Sleeve	1
80	518776	Clamp — Angle	2
81	520758	Shell Collar	3
82	520701	Center Baffle	1
83	520703	Right Side Baffle	1
84	520705	Left Side Baffle	1
85	517792	Key, $\frac{5}{32}$ sq. x $\frac{5}{8}$	3