TORO

OWNER'S OPERATING AND PARTS MANUAL

24" S.P.

SERIAL NOS : 25037–150 THRU 25037–1008
25117–150 THRU 25117–690
25038–150 THRU 25038–450
25118–150 THRU 25118–785
25039–750 THRU 25039–1150
25119–750 THRU 25119–950
25030–500 AND UP
25110–500 AND UP

Price 25 cents

TORO

TO THE TORO OWNER

This Owner Manual has been especially prepared for your information and guidance in the operation and care of your new Toro 24" Rotary.

Properly operated and maintained, this Toro 24" will respond quickly and easily to every reasonable demand and give years of reliable service.

Toro 24" mowers are manufactured by an organization of mowing machinery specialists. Each machine is carefully inspected and tested before leaving the factory. For best performance from your Toro 24" Rotary, study this manual for regular maintenance procedures.

TORO 24" S.P. - FORWARD DRIVE MODEL

SPECIFICATIONS

ENGINE: Wisconsin AKN, 7 H. P. at 3600 R. P. M. and Wisconsin BKN.
FUEL TANK CAPACITY: 1 gallon

CUTTER BAR CLUTCH: Tight slack flat belt

TRACTION CLUTCH:· Rockford #LMS-114 Disc type clutch on speed reducer input shaft and jaw type clutch on speed reducer output shaft. (Reverse Drive)

TRACTION CLUTCH: Rockford LMA-2-1AD Disc type clutch on speed reducer output shaft. (Forward Drive)

CUTTER BAR DRIVE: 1-1/4" flat belt on 3" O. D. pulleys from engine.

CUTTER BAR: 3/8" thick arm with hardened blades riveted to ends. 24" long assembled.

TRACTION DRIVE: "A" Section Industrial heavy duty "V" belt on 2.76 P.D., 3.63 P.D. or 4.32 P.D. engine pulley to 6.32 P.D., 5.32 P.D. or 4.76 P.D. pulley on speed reducer. 5/8 pitch x 1/4" wide roller chain on 17 T. and 48 T. sprockets from speed reducer. (Reverse Drive)

TRACTION DRIVE: "A" Section Industrial heavy duty "V" belt on 2.5 P.D. or 2.0 P.D. engine pulley to 3.5 P.D. or 4.0 P.D. pulley on speed reducer, 5/8" pitch x 1/4" wide roller chain on 27 tooth and 36 tooth sprockets from speed reducer. (Forward Drive)

REDUCTION, ENGINE TO WHEELS: 64.7: 1 41.4: 1 or 31.1: 1 depending on pulley groove selected, including 10: 1 reduction in speed reducer. (Reverse Drive)

REDUCTION, ENGINE TO WHEELS: 41: 1 or 28.6: 1 depending on pulley groove selected, inclusive 15: 34: 1 reduction on speed reducer. (Forward Drive)

WHEELS: #14 Ga. Steel Disc

TIRES: Front - 12 x 3.00 Semi Pneumatic
Rear - 4.00 x 7 Pneumatic

DIFFERENTIAL: Enclosed, Bevel gear

GROUND SPEED: 3 MPH or 4 MPH, depending on engine pulley groove selected. (Forward Drive)

HEIGHT OF CUT: 9/16" to 3-9/16" adjusted by spacers on cutter bar shaft.

WIDTH OF CUT: 24"

HOUSING: Fabricated of 3/16" steel plate and welded into one unit. Adjustable front guard. Hinged rear guard.

HANDLE: $1\frac{1}{4}$ O. D. x #13 Ga. welded steel tubing.

DIMENSIONS: Width 32"
Length 60" Including handle
Height 36"

WEIGHT: 357 pounds w/o reverse
387 pounds with reverse

OPTIONAL EQUIPMENT: Sulky, Leaf Mulcher, Reverse Unit, Wheel Weights and Electric Start (Battery).

REVERSE UNIT: Enclosed bevel gear mounted on speed reducer input shaft.

Warranty

The Manufacturer warrants each new piece of equipment sold to be free of defects in material and workmanship. For ninety (90) days from the purchase date, Toro Manufacturing Corporation will repair or replace for the original purchaser, free of charge, through any Authorized Service Dealer, any part or parts found at our factory in Minneapolis, Minn., to be defective under normal use and service.

This Warranty does not obligate the Manufacturer to bear the cost of transportation charges in connection with the replacement or repair of defective parts -- nor shall it apply to a machine upon which repairs or alterations have been made, unless authorized by the manufacturer.

This Warranty does not include nor cover standard accessories produced by other manufacturers. Such accessories have separate warranties by their respective manufacturers..... and repair or exchange will be made on the basis of such warranties, and the policies authorized by them shall be adhered to.

This warranty is in lieu of all other warranties expressed or implied.

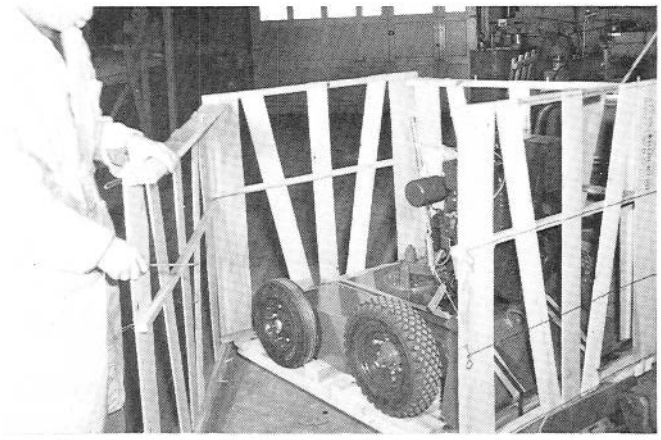
IMPORTANT ORDERING INSTRUCTIONS

Repair parts are available from your TORO distributor or service dealer.

To insure getting correct parts without delay, please furnish the following information.

1. Serial number of your mower as shown on the name plate.
2. Part number, description and quantity of each part required.
3. State whether parts should be shipped by mail or express. All repair parts are shipped F.O.B. factory.
4. Name and address where parts are to be shipped.
5. Do not order by reference number; use part number only.

SETTING UP THE 24" S.P. ROTARY

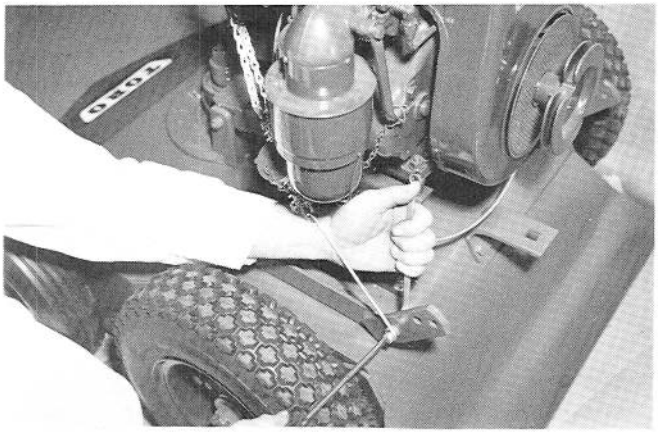


The following steps are necessary to completely set up your mower ready for operation after delivery from the dealer:

1. Crating and pallet to be removed.
2. Handle and controls to be hooked up.
3. Lubrication and adjustments

❶ REMOVE MOWER FROM CRATING AND PALLET

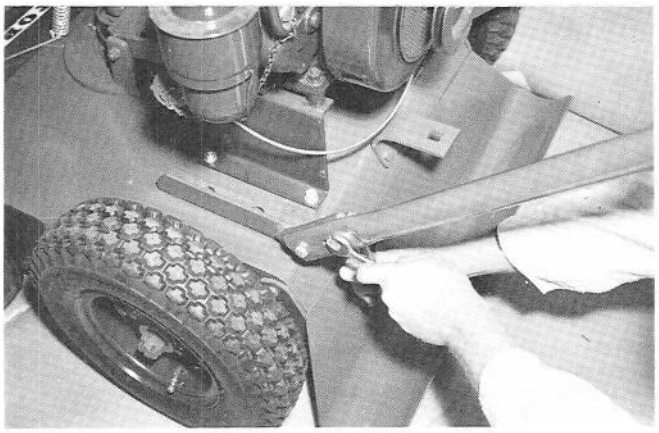
When uncrating the mower, open the wire fasteners at left rear of the mower as shown, remove the top, and "peel" the crate sides from the mower as shown. Unstrap the mower from the palletized crating base. Be sure to remove the bag of small fasteners which are attached to the inside of the crate.



❷ REMOVE TENSION CHAIN FROM HANDLE BRACKET

When shipped, the cutter control tension spring and chain are fastened to the left handle bracket of the mower. The other end of the chain is fastened to the rod which rises vertically from the flat belt tensioner frame. The chain is fastened to the handle bracket only for safe keeping during storage and shipment.

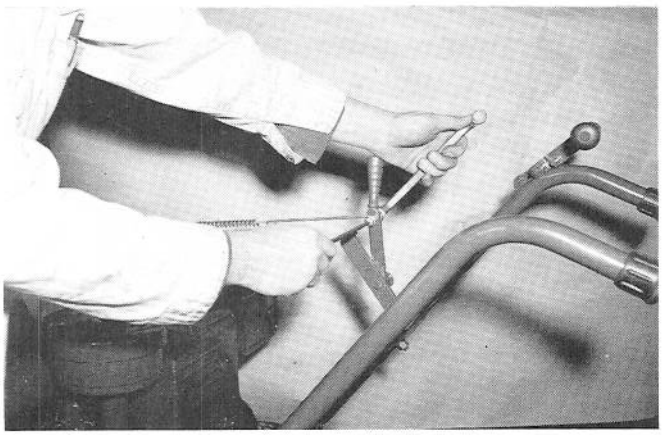
Remove the end of the chain which is fastened to the left handle bracket at the bracket end only. Save the fasteners for use in connecting this chain to the cutter control lever.



❸ INSTALL MOWER HANDLE ON HANDLE BRACKETS

The screws for mounting the mower handle will be found in the plastic bag fastened to the inside of the mower shipping crate.

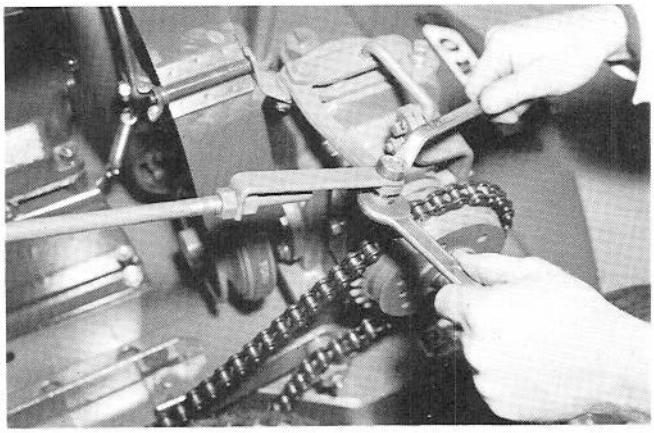
You will note that there are three holes in each mounting bracket. The lower hole is the pivot hole on each side and should be fastened first. The remaining two holes in each bracket are for high or low handle height adjustment. Pivot the handle to the desired angle and insert fastening screws through the applicable bracket holes as shown. The lower bracket hole gives a higher handle adjustment. The upper holes are for lower handle height. Fasten and tighten all four handle and bracket screws firmly.



❹ FASTEN CHAIN TO CUTTER BAR CONTROL LEVER

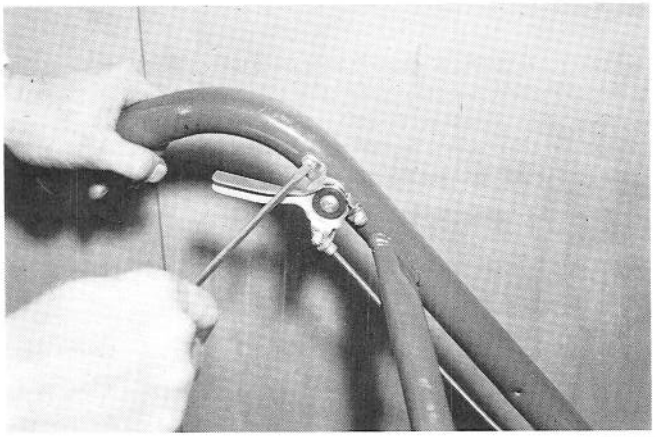
Fasten the flat belt tension control chain and spring to the cutter control lever which comes mounted at the center of the mower handle.

First advance the control lever to its forward position (as far forward as it will go). Then fasten the spring hook extension to the cutter control lever as shown, using the fitting with which this extension was fastened to the handle bracket when the mower was delivered. The spring hook extension should be fastened to the control lever in such a way that it is free to pivot as the lever is moved back and forth.



5 ATTACH TRACTION CLUTCH CONTROL ROD

The traction clutch control rod is tied to the right handle of the mower when delivered. After installation of the handle, the control rod should be fastened to the clutch lever arm on the right side of the mower as shown. The clutch rod has an adjustment for high or low handle height as shown in section 8 below. This rod must be adjusted for whichever handle height the handle has been installed. Tighten the clutch control rod fasteners to the lever arm on the mower and lock with cotter key after rod length has been adjusted to fit the handle height selected.

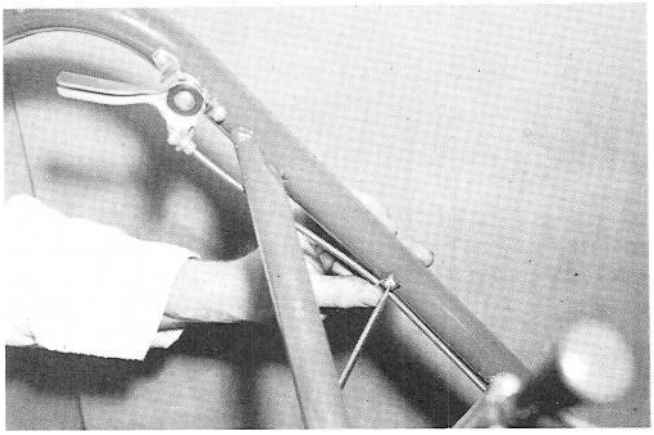


6 ATTACH THROTTLE CONTROL LEVER TO HANDLE

Attach the throttle control and throttle control wire casing to the inside of the left mower handle as shown. When delivered, the throttle control wire and casing, with the finger lever attached, will be found wrapped around the engine.

UNWRAP THIS CONTROL WIRE CAREFULLY AS IT IS IMPORTANT TO PREVENT THIS WIRE AND CASING FROM GETTING KINKED BEFORE OR DURING INSTALLATION.

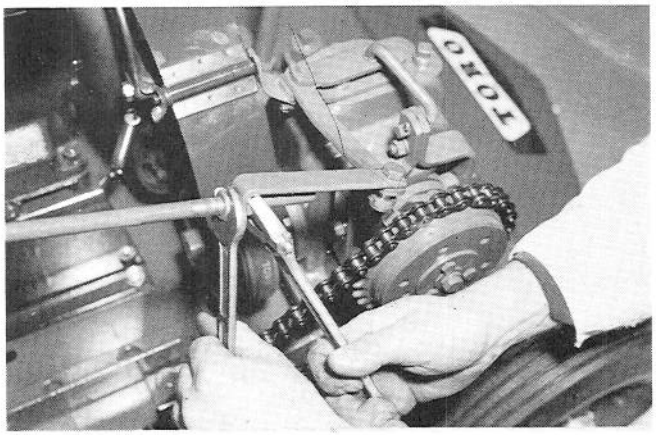
Fasten the finger lever control to the inside of the mower handle as shown.



7 FASTEN THROTTLE CONTROL CASING TO HANDLE

Attach the throttle control wire casing down the inside of the left mower handle by means of the screws and clips found in the plastic fittings bag. There are three tapped holes down the inside of the left mower handle. Fit the screws and clips found in the bag into these three holes, insert the control wire casing under the clips and tighten the screws securely.

THE LOOP IN THE CASING FROM THE ENGINE TO THE HANDLE SHOULD NOT BE KINKED either during or after installation.

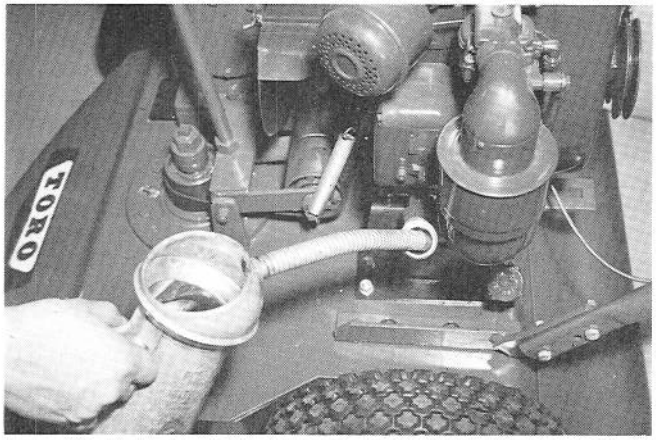


8 ADJUST THE CLUTCH CONTROL LEVER ROD

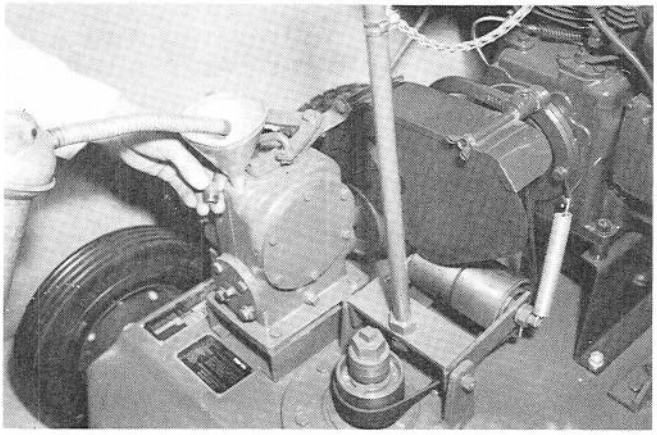
Whenever handle height is changed, the length of the clutch control lever rod must be changed accordingly. To change handle height, first loosen the two adjusting nuts on the control rod as shown, then change the handle height by removing top handle bracket screws, pivoting the handle into new position and replacing the handle bracket screws, tightening all four handle bracket screws securely. Then tighten the adjusting screws in position to provide proper lengthening or shortening of the clutch control rod as shown.

THE MOWER IS NOW READY FOR LUBRICATION

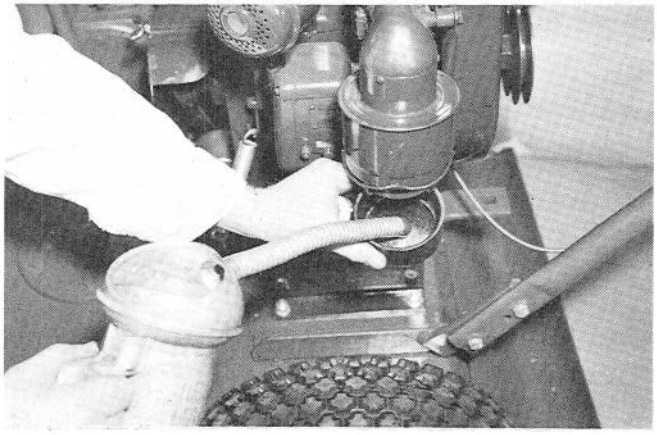
OIL AND GASOLINE



❶ FILL THE ENGINE CRANKCASE - Use a good grade of S.A.E. #20 motor oil. With the mower on a level surface, fill until oil level reaches the top of the crankcase oil fill opening shown here.



❷ CHECK THE SPEED REDUCER - The speed reducer is filled with S.A.E. #140 gear oil before delivery from the factory. Check to see that this is filled. Recheck and fill at least twice every season.

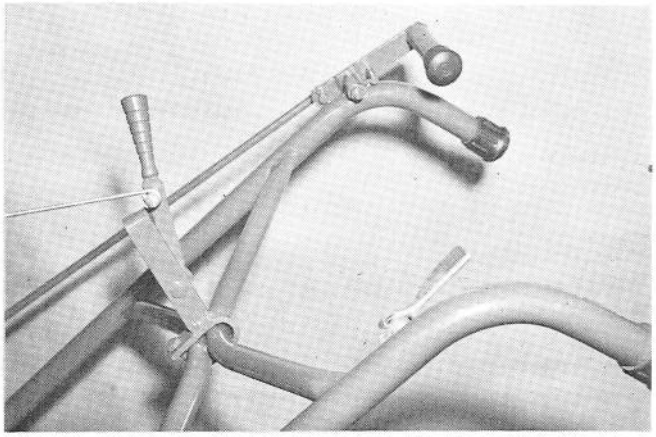


❸ FILL THE ENGINE AIR CLEANER - Use S.A.E. #20 motor oil. Fill bowl to oil level line. Requires about one half pint.

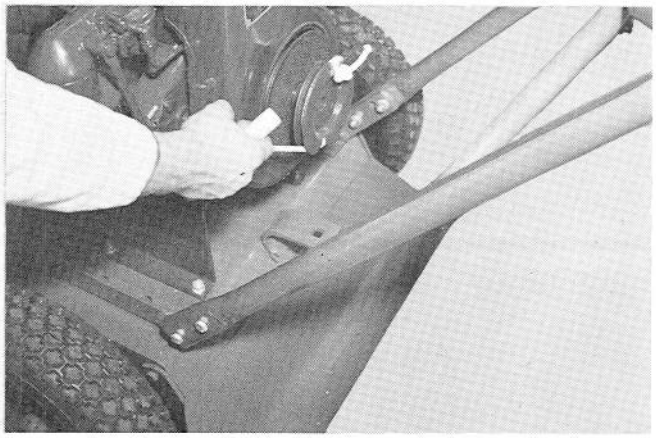
❹ CHECK ZERK FITTINGS - Filled at the factory.

❺ FILL WITH CLEAN, FRESH REGULAR GASOLINE.

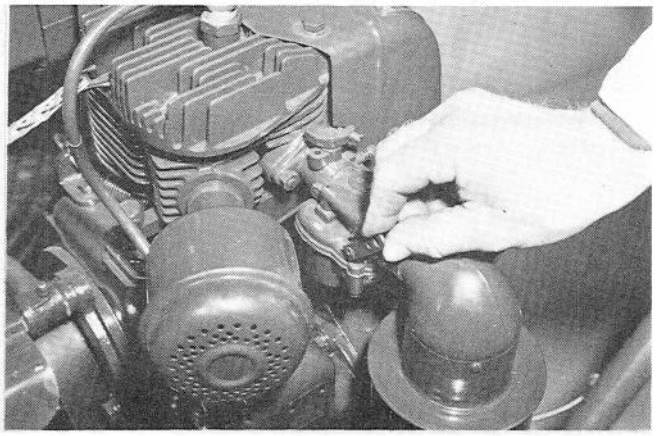
ENGINE STARTING



❶ SET HANDLE CONTROLS FOR STARTING - The traction clutch control (right handle) is "disengaged." Cutter bar control lever (center) is forward (disengaged). Throttle lever is half open. Choke lever (lower left) is on full choke (forward) for starting.



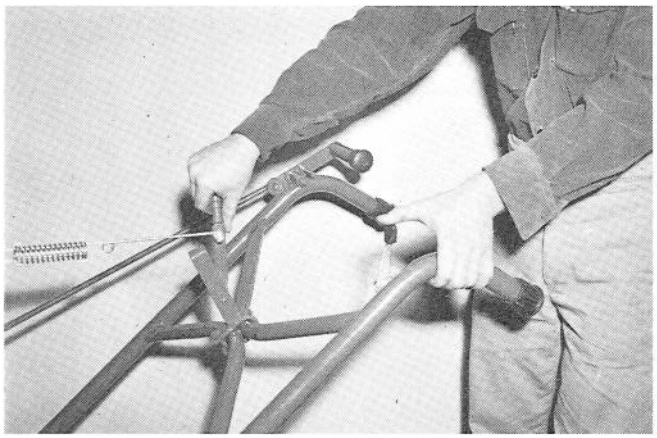
❷ PULL STARTER CORD STRAIGHT OUT - When the engine is cold, full choke may be required for one or two pulls before starting. Under normal conditions partial or no choking is required for starting.



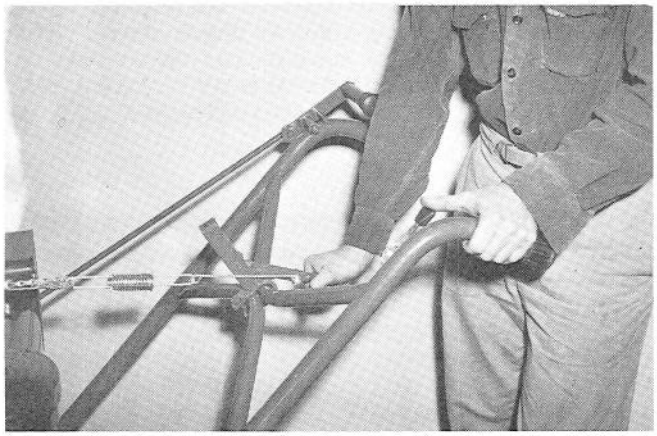
❸ ADJUST THE CHOKE TO BEST OPERATING POSITION - Move the choke lever back as shown as soon as the engine starts. Adjust the throttle control handle lever to "idle" position (raised).

READ THE ENGINE MANUAL FOR BEST OPERATION

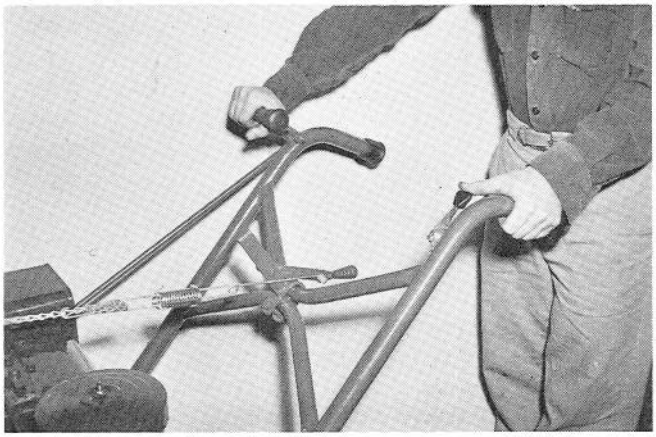
MOWER OPERATION



❶ START THE CUTTER BAR IN ROTATION - First set the engine throttle control at reduced speed, then engage the center cutter bar control lever gradually by pulling it back as shown. Increase throttle slowly.

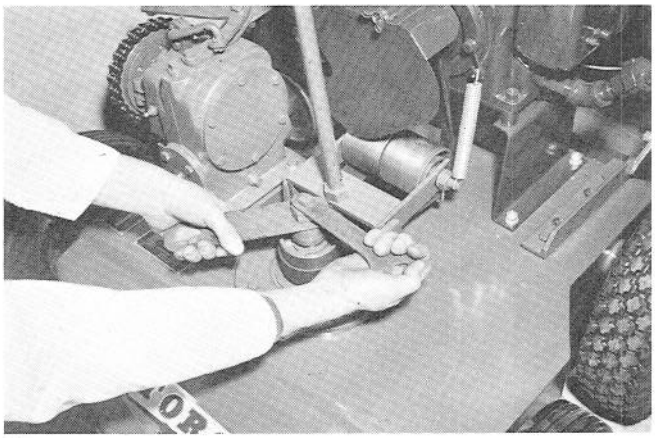


❷ WITH THE CUTTER BAR ENGAGED, INCREASE ENGINE SPEED - And prepare to engage the forward traction drive clutch control. Throttle should be depressed only enough to prevent stalling when engaging clutches.

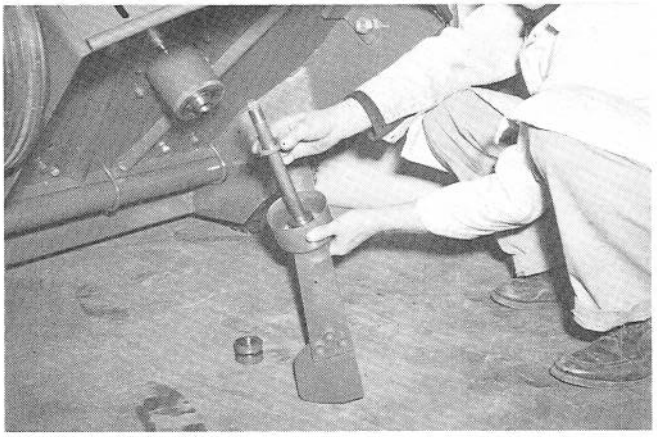


❸ ENGAGE THE TRACTION DRIVE CLUTCH LEVER - Increase pressure on the gas throttle as the clutch is engaged gradually so the mower moves forward smoothly. Adjust the throttle to desired speed. NOTE - It is advisable to practice driving and control of the mower without cutter bar operating when the operator is unfamiliar with this type of mower.

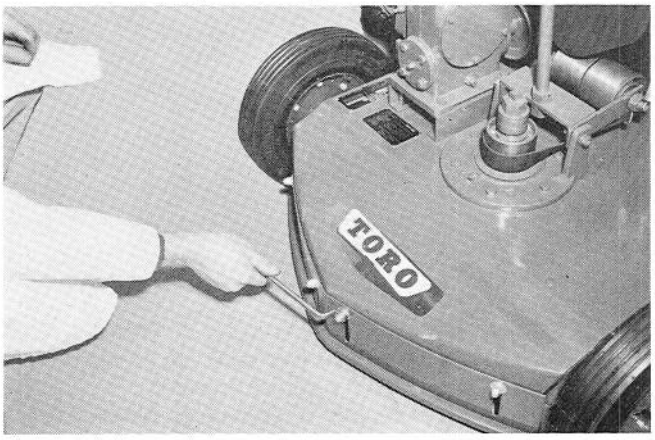
CUTTING HEIGHT ADJUSTMENT



❶ REMOVE TOP CUTTER SHAFT LOCK NUT AND SPACERS - Use wrenches provided in plastic bag with mower. Tip mower back on handle, remove air cleaner, so cutter bar assembly can be removed from below.



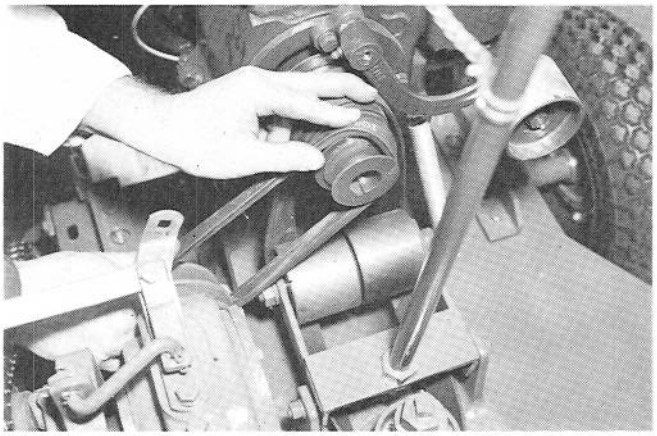
❷ REMOVE CUTTER SHAFT AND LOWER SPACERS - Height of cut is controlled with spacers on the shaft above and below the housing. Four spacers provide combinations above and below that provide from one to four in. cuts in 1/4 in. steps. Original setting is 2 in.



❸ REASSEMBLE SPACERS ON SHAFT AND LOCK - Then change height of the front mower guard by means of adjustment slots as shown to be 1/8 inch below the cutter bar. TOP NUT MUST BE TIGHT AT ALL TIMES.

DISCONNECT SPARK PLUG LEAD WIRE BEFORE WORKING ON CUTTER BAR ADJUSTMENT.

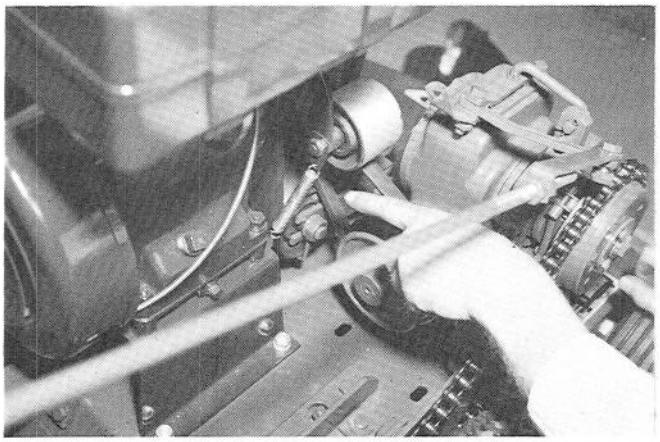
GROUND SPEED ADJUSTMENT



❶ TO CHANGE FORWARD GROUND SPEED MOVE THE V-BELT ON MULTI-GROOVE PULLEYS - The pulley grooves closest to the engine provide high speed and the grooves away from the engine provide low speed. It is necessary first to remove the V-belt housing by unscrewing wing nut fasteners. To move the belt:

1. Remove the belt guard housing over the pulleys.
2. Hold down the idler arm to relieve belt tension.
3. Move the V-belt to the proper grooves, release tension on the idler arm, and replace belt guard.

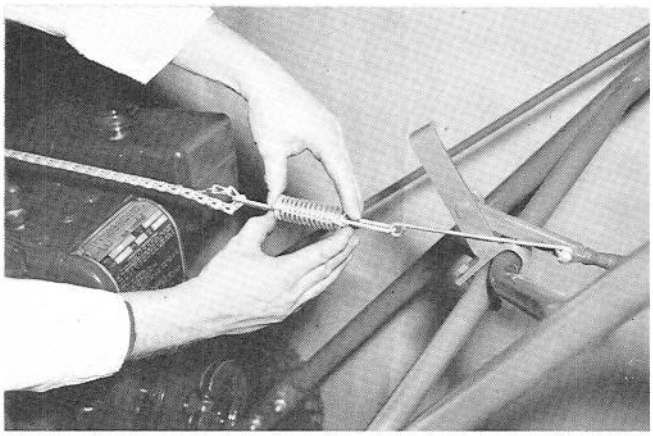
❷ TO REPLACE THE V-BELT - Follow the same procedure as in changing speed except that the V-belt is removed completely and replaced. Disconnect the idler tension spring if new belt is too stiff to go on otherwise.



❸ TO CHANGE TENSION ON THE V-BELT IDLER PULLEY - Disconnect the idler arm spring at the top from the hole in the pulley guard bracket arm pointed out above. This arm has a series of holes for the spring, with tension increased toward top end of the arm. Fasten the spring in the hole providing proper idler arm tension for belt condition.

❹ CHECK THE V-BELT ALIGNMENT - Be sure that the V-belt is aligned properly on the pulleys and that the idler tension is adjusted to prevent slipping, or "galloping" of the idler before replacing pulley guard.

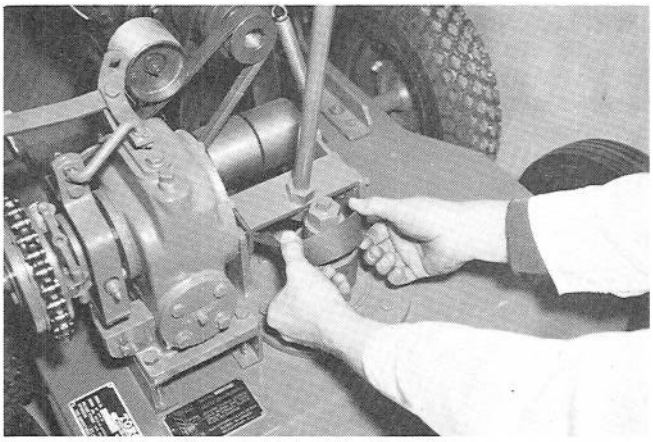
CUTTER BELT ADJUSTMENT



❶ CHECK FOR PROPER TENSION ON THE FLAT BELT which drives the cutter bar by first pulling back on the cutter bar handle control lever to fully engaged position. Then squeeze the tension spring linked to the connecting chain as shown above. When properly adjusted it is possible for the average operator to SQUEEZE THE SPRING APPROXIMATELY 1/4 INCH WHEN HELD AND COMPRESSED AS SHOWN.

❷ SHORTEN OR LENGTHEN THE CONNECTING CHAIN to obtain the proper tension as determined by the method shown above.

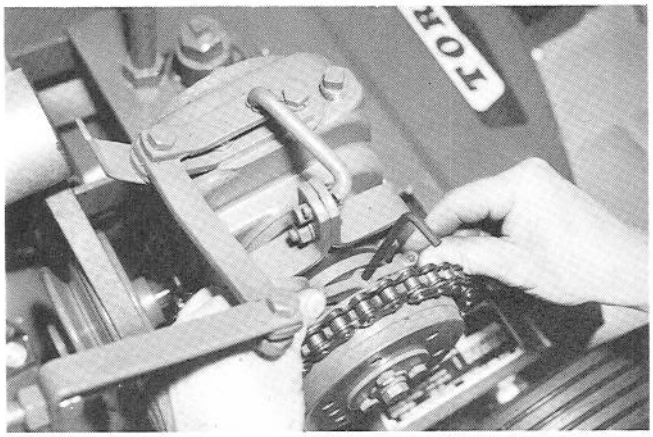
❸ ENOUGH TENSION SHOULD BE MAINTAINED ON THE FLAT BELT TO PREVENT SQUEALING AND/OR SMOKING OF THE BELT ON THE ENGINE PULLEY.



❹ TO REPLACE THE FLAT BELT, FIRST REMOVE THE TRACTION DRIVE V-BELT. It is then possible to slip the flat belt up off the vertical cutter bar shaft, out under the tension rollers and off the engine pulley.

❺ BE SURE THAT THE CUTTER CONTROL LEVER IS DISENGAGED BEFORE CHANGING THE FLAT BELT. Make sure that the flat belt fits between the guides and the tension pulleys and that the INSIDE surface of the belt is against ALL PULLEYS.

CLUTCH ADJUSTMENT



❶ TO CHECK THE CLUTCH FOR PROPER ADJUSTMENT - First throw the clutch rod handle control forward until the clutch locks in its operating position. Pull the mower backwards a few inches. If the wheels skid, the adjustment is correct.

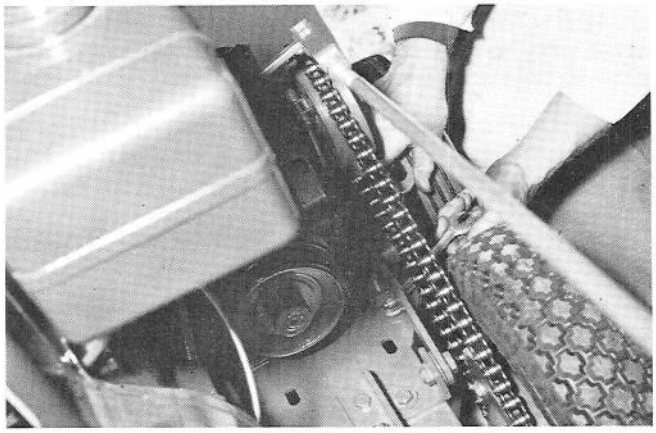
❷ IF THE CLUTCH SLIPS - Allowing the wheels to turn, it is necessary to adjust the clutch, using the Allen wrench provided in the plastic fittings bag which came with the mower.

❸ LOOSEN CLUTCH SPIDER SET SCREW - This is located in the center of the top of the roller lever spider of the clutch.

❹ TO TIGHTEN THE CLUTCH - Rotate the spider toward the REAR of the mower until proper tension is obtained, then tighten and re-check as above, making further adjustment if necessary.

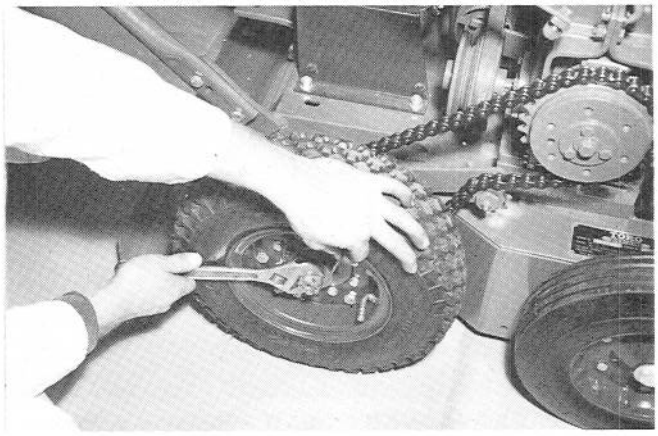
❺ TO LOOSEN THE CLUTCH - Turn the spider toward the FRONT of the mower, tighten the setscrew and re-check, making further adjustments if necessary.

CAUTION - Be careful to set the clutch ONLY tight enough to prevent slipping. After a new mower has been in use for a short time, a readjustment will be necessary to take up the "run-in" wear on the friction discs. From time to time after that, additional adjustments will be required to take up wear. It is advisable to make the over-all check described above each time the mower is used, to insure longer disc life.



TO ADJUST DRIVE CHAIN TENSION - Release clutch control lever and block right rear wheel up off the ground to turn free. Loose idler bracket bolts as shown and move the bracket forward until the chain is snug without binding. Then retighten idler bracket securely.

DIFFERENTIAL ADJUSTMENT



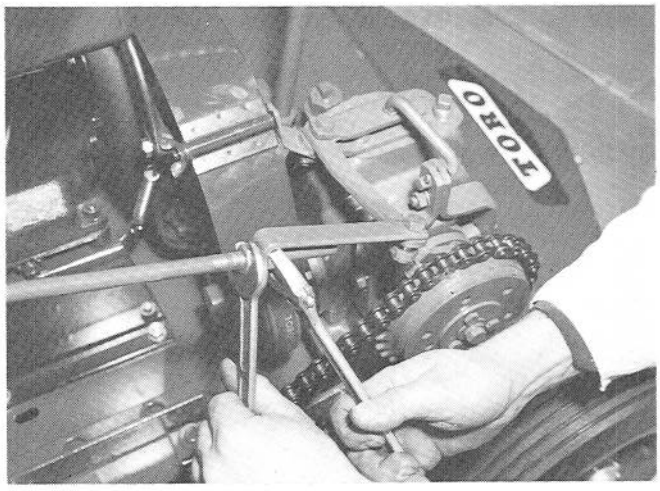
❶ TO ADJUST THE DIFFERENTIAL - First block the rear left wheel off the ground in such a manner that it CANNOT TURN.

❷ THEN ON THE RIGHT WHEEL - Remove cotter pin and tighten the nut on the right wheel axle until the gears bind and will not allow the nut to turn freely.

❸ WHEN THE RIGHT WHEEL BINDS - Loosen the nut just enough (approximately the difference of one "castle" so that the cotter pin can be inserted in one of the two holes in the axle. There are two holes in the axle for the cotter pin, allowing a closer adjustment of the gears.

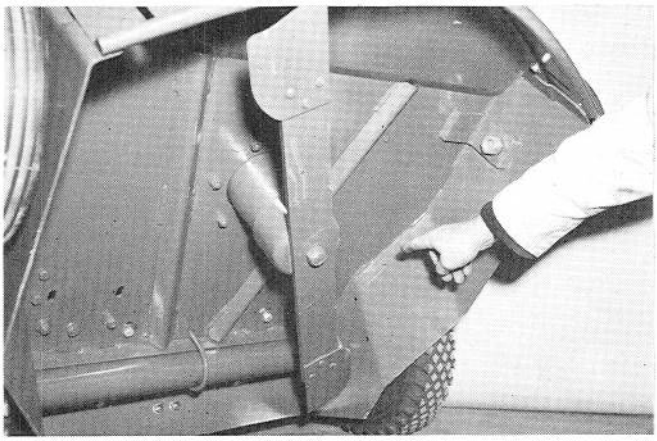
❹ CHECK TO SEE THAT THE WHEELS RUN FREELY - If not, back the nut off a little more, using the other cotter pin hole if necessary.

IT IS IMPORTANT THAT THE GEARS BE KEPT IN PROPER ADJUSTMENT - This can be easily and quickly checked by blocking up the rear end of the mower, and checking the back-lash of the right wheel while the left wheel is held stationary. If there is more than a slight amount of back-lash, the gears should be adjusted.



TO ADJUST THE CLUTCH CONTROL LEVER - Adjust control rod length by turning adjusting nuts as shown in illustration, until clutch can be engaged and disengaged by operating the clutch control lever. Then retighten nuts. This adjustment must be changed whenever handle height is changed. See set-up instructions on changing handle height on Page 4.

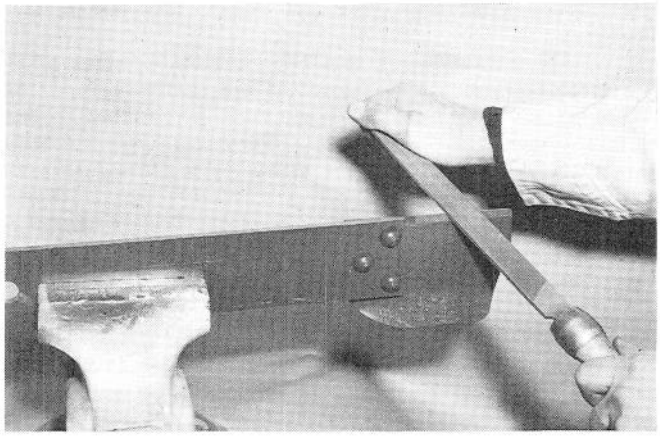
CARE OF YOUR MOWER



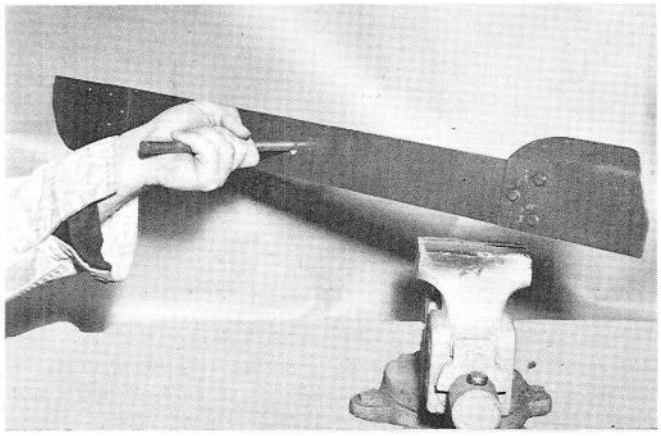
❶ KEEP THE MOWER CLEAN - Remove accumulations of dirt and old grass clippings from inside the housing with a putty knife or similar tool, in areas shown here.

❷ KEEP ALL NUTS, SCREWS AND FITTINGS TIGHT.

❸ KEEP REAR TIRES INFLATED TO 20 POUNDS.

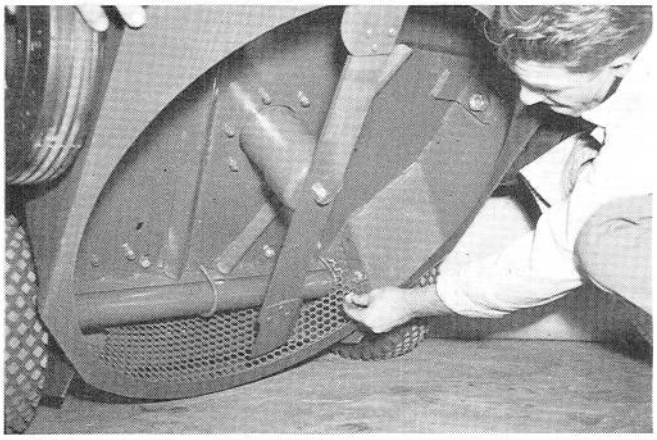


❹ KEEP CUTTER BAR BLADES SHARP - ALWAYS DISCONNECT SPARK PLUG LEAD WIRE WHEN REMOVING CUTTER BAR OR WORKING ON IT. Remove the cutter bar and shaft, then unscrew the left-hand nut at the bottom of the cutter shaft by holding squared top of shaft with a wrench. Remove cutter bar for sharpening in vise as shown. IN FILING BLADES MAINTAIN THE ORIGINAL ANGLE OF THE CUTTING EDGE AS CLOSELY AS POSSIBLE.



❺ KEEP THE BLADE IN BALANCE - Remove the same amount from each side. IF EMERY WHEEL IS USED DO NOT "BURN" EDGES BY TOO RAPID GRINDING. Bar balance can be checked as shown.

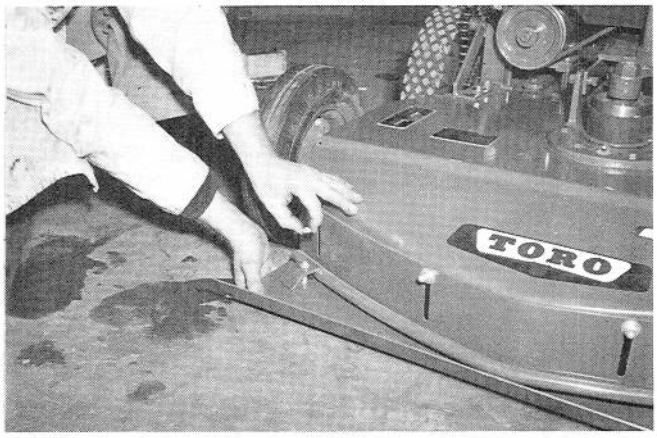
LEAF MULCHING



❶ TO PREPARE YOUR MOWER FOR LEAF MULCHING - First remove the air cleaner and set it on a level spot to prevent spilling oil when the mower is tipped back.

❷ Disconnect the spark plug lead wire, and tip the mower back on its handle.

❸ Place the leaf mulcher (which is optional equipment) in the position shown under the mower and fasten at the inside rear with four screws provided as shown.



❹ FASTEN MULCHER TO THE FRONT MOWER GUARD - Using the clips, screws and fittings provided with the mulcher, fasten the front of the mulcher to the front mower guard.

❺ HEIGHT OF CUT FOR MULCHING SHOULD BE SET HIGHER THAN FOR NORMAL GRASS CUTTING AS THE CUTTER BAR SHOULD CLEAR THE GRASS.

❻ DO NOT USE THE MOWER FOR GRASS CUTTING WITH THE LEAF MULCHER ATTACHED.

WINTER STORAGE HINTS

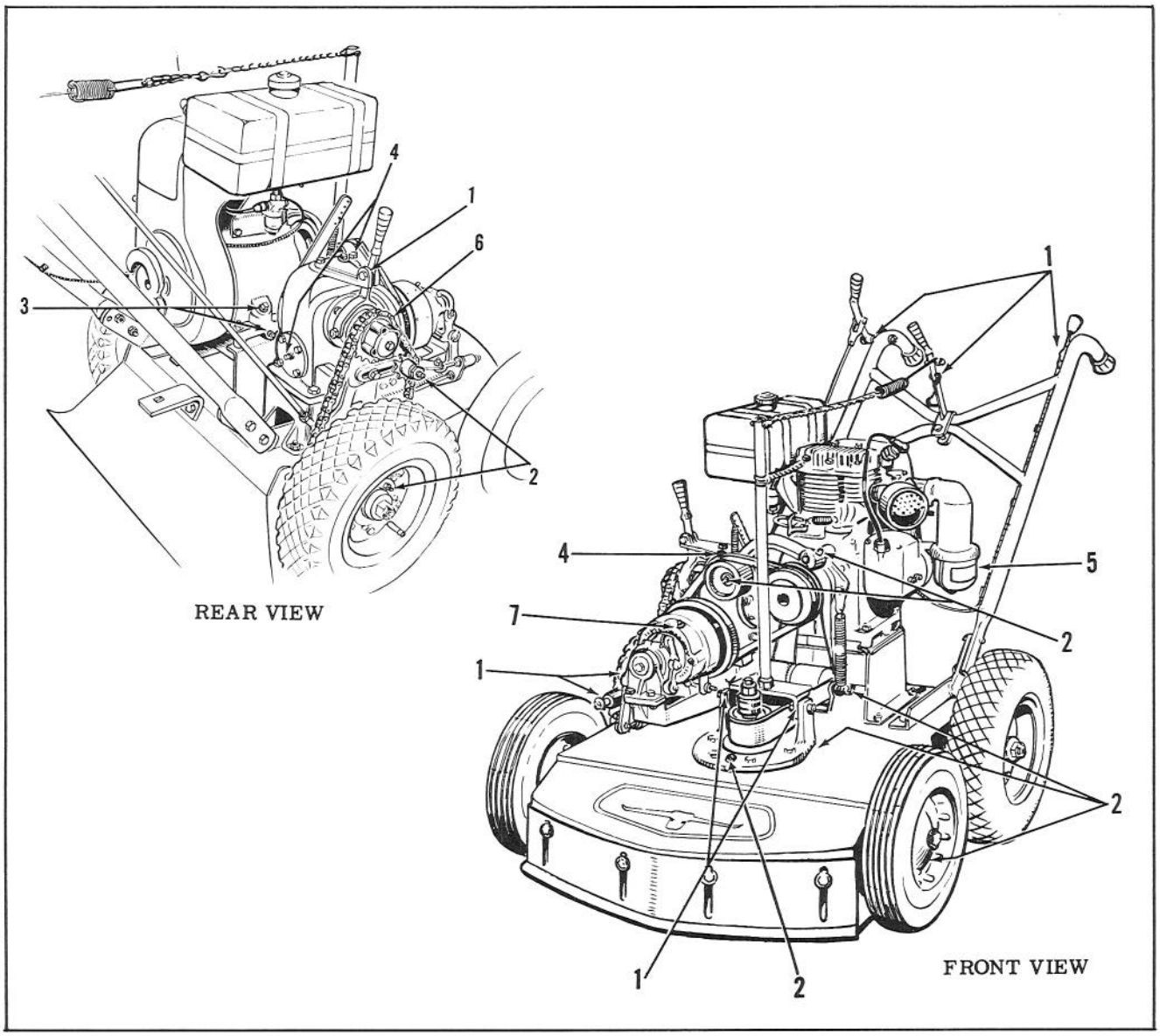
❶ BLOCK UP THE WHEELS to remove tire weight.

❷ RELIEVE TENSION on all belts and springs.

❸ FOLLOW ENGINE MANUAL INSTRUCTIONS for engine care and winter storage lubrication precautions.

❹ STORE IN A WARM DRY LOCATION if possible.

LUBRICATION CHART



1. PIVOT POINTS AND CONTROL CASING: Use lubricating oil, oil daily.

2. ZERK FITTINGS: Use a good grade of gun grease; grease after every 48 operating hours. CAUTION: Do not use too much grease. Two or three shots from gun is ample.

3. ENGINE: Use a good grade of S. A. E. #20 motor oil; check oil level after every four hours of running. If oil is below filler opening, fill up to proper level. Study engine manual for further instructions.

4. SPEED REDUCER: Use a good grade of S. A. E. #140 gear oil. Check oil level of the speed reducer twice a season. Remove small plug on bearing cap. If oil flows out, no more is needed. If no oil flows, remove filler plug on top of reducer housing and add oil to bring it up to the proper level. To drain, remove top plug and drain plug. (Not oil level plug)

5. AIR CLEANER: Fill to level mark. Use a good grade of S. A. E. #20 motor oil; change after each 25 operating hours, more often under dusty conditions. Study engine manual for further instructions.

7. REVERSE ATTACHMENT: Use a good grade of S. A. E. #140 gear oil; check periodically. To fill reverse housing, turn pipe plug to top, remove lower plug to check oil level. Remove top plug and fill till oil runs out of lower hole. To drain, remove both plugs and turn one to bottom.

SERVICE INSTRUCTIONS

FOR 24" S.P. WITH REVERSE

CHANGING GROUND SPEED

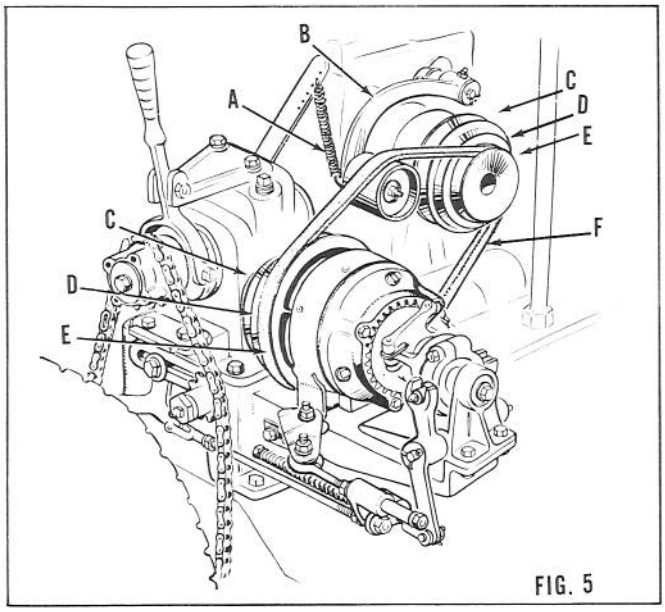


FIG. 5

Multi-groove pulleys are used to provide three optional ground speeds. (see Fig. 5). The grooves "C" nearest to the engine are for the higher speed, and the other grooves "D" and "E" are for the lower speed. To shift the "V" belt "F" (see Fig. 5) from one speed to the other, disconnect spring "A" attached to the idler arm "B". Turn idler arm "B" up out of the way and remove belt "F" first from the reducer pulley and then from the engine pulley. Place belt "F" in the other groove selected of the reducer pulley and then slip it into the corresponding groove of the engine pulley. Re-connect tension spring "A" to the idler arm "B". Adjust spring tension for minimum slippage of "V" belt.

REPLACING "V" BELT

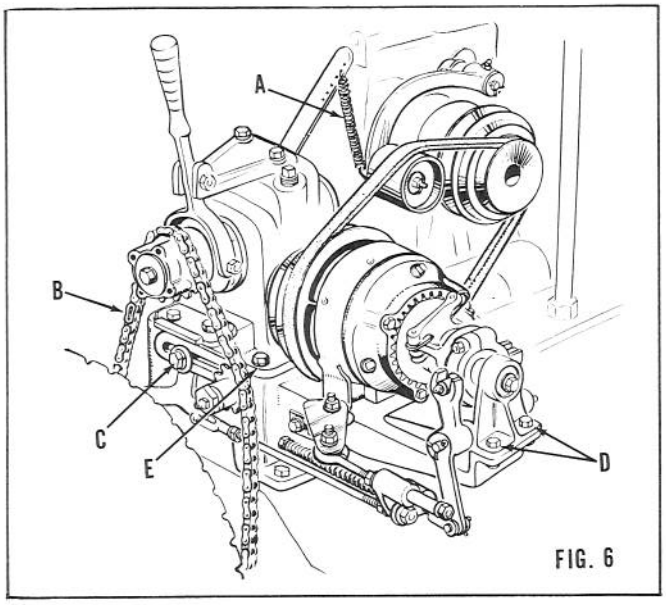


FIG. 6

To replace the "V" belt on your 24" S. P., first cut off the old belt, then remove chain "B" (see Fig. 6). Next loosen the two screws "D" that hold the bearing block to the speed reducer base. Next step is to remove the crank bracket "C". Then remove the four screws "E" that secure the housing to the speed reducer base. Then unhook spring "A" from the spring anchor. Now lift the housing off the base and install the new "V" belt by slipping it over the housing.

Make certain when replacing belt that the pulleys are lined up properly and that the idler assembly does not jump when the machine is running.

TRACTION DRIVE ADJUSTMENT

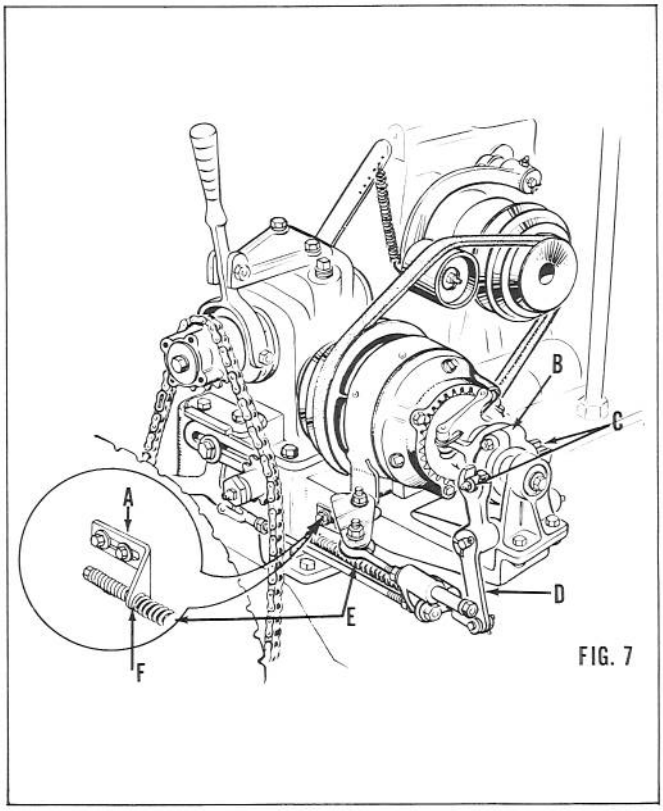


FIG. 7

The traction drive mechanism has been adjusted at the factory. Additional adjustments will be necessary to compensate for wearing of moving parts. In Fig. 7 be sure bracket "A" is positioned so there is approximately a 1/16" gap between bracket "A" and the cut washer just behind spring "E" at point "F", when the clutch is in the disengaged position. This adjustment should allow free movement of release bearing "B" in openings of clevis "D" at point "C". If binding should occur at points "C" a slight readjustment at point "F" will be necessary.

SERVICE INSTRUCTIONS

FOR 24" S.P. WITH REVERSE

CLUTCH ADJUSTMENT

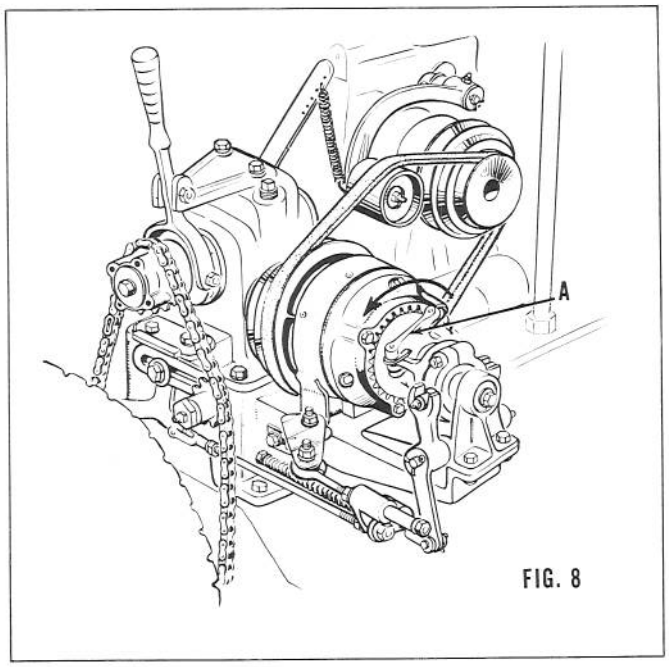


FIG. 8

When your 24" S. P. leaves the factory, the clutch itself is properly adjusted. To make an overall check, throw the clutch rod handle forward until the clutch locks in its operating position. Pull the mower backward a few inches. If the wheels skid, the adjustment is correct. If the clutch slips, allowing the wheels to turn, adjust the clutch as follows: Loosen setscrew "A" (see Fig. 8) in the roller lever spider of the clutch. Turn the spider counter-clock-wise (as shown by arrow in Fig. 8) about a $\frac{1}{4}$" turn, tighten setscrew "A" and recheck. Make further adjustment as needed to stop the clutch from slipping.

CAUTION: Be careful to set the clutch only tight enough to prevent slipping. After a new mower has been in use for a short time, a readjustment of the clutch will be necessary to take up the "run in" wear on the friction discs. From time to time after that, it will be necessary to make additional adjustments to take up the normal wear on the discs. It is best to make the "over-all" check, as described above each time the mower is used. This can be done in a few moment's time and will greatly prolong the life of the discs.

BRAKE BAND ADJUSTMENT

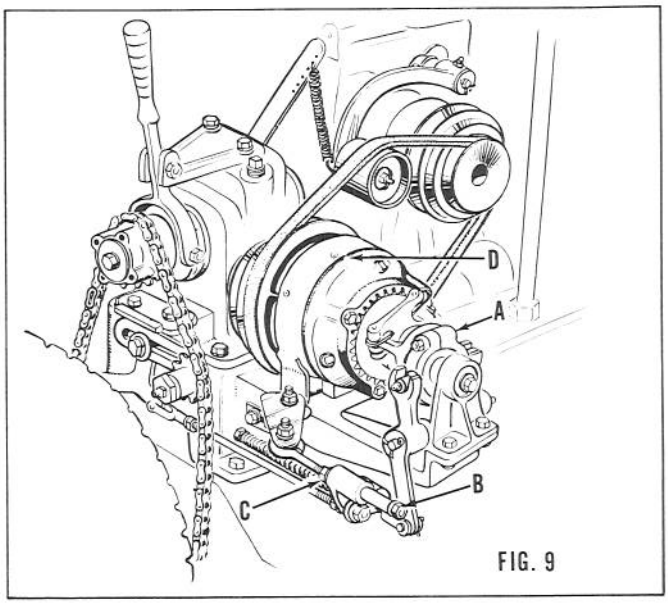


FIG. 9

Release clutch "A" (see Fig. 9) and adjust sleeve by releasing nut "B" to allow 1/16" clearance at "C" (See Fig. 9). On the engine side of the brake band "D" are two nuts for adjusting tension of the brake band. This band should be moved up tight and then released until there is no drag on the reverse mechanism with the control handle in a neutral position.

CHAIN ADJUSTMENT

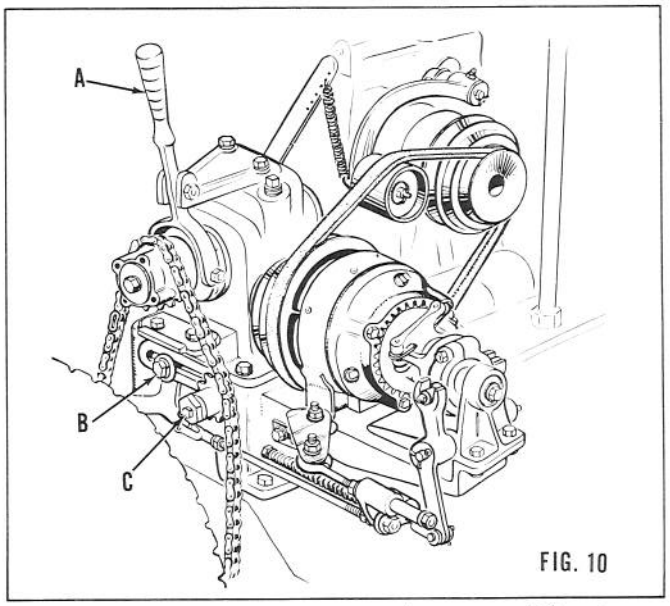
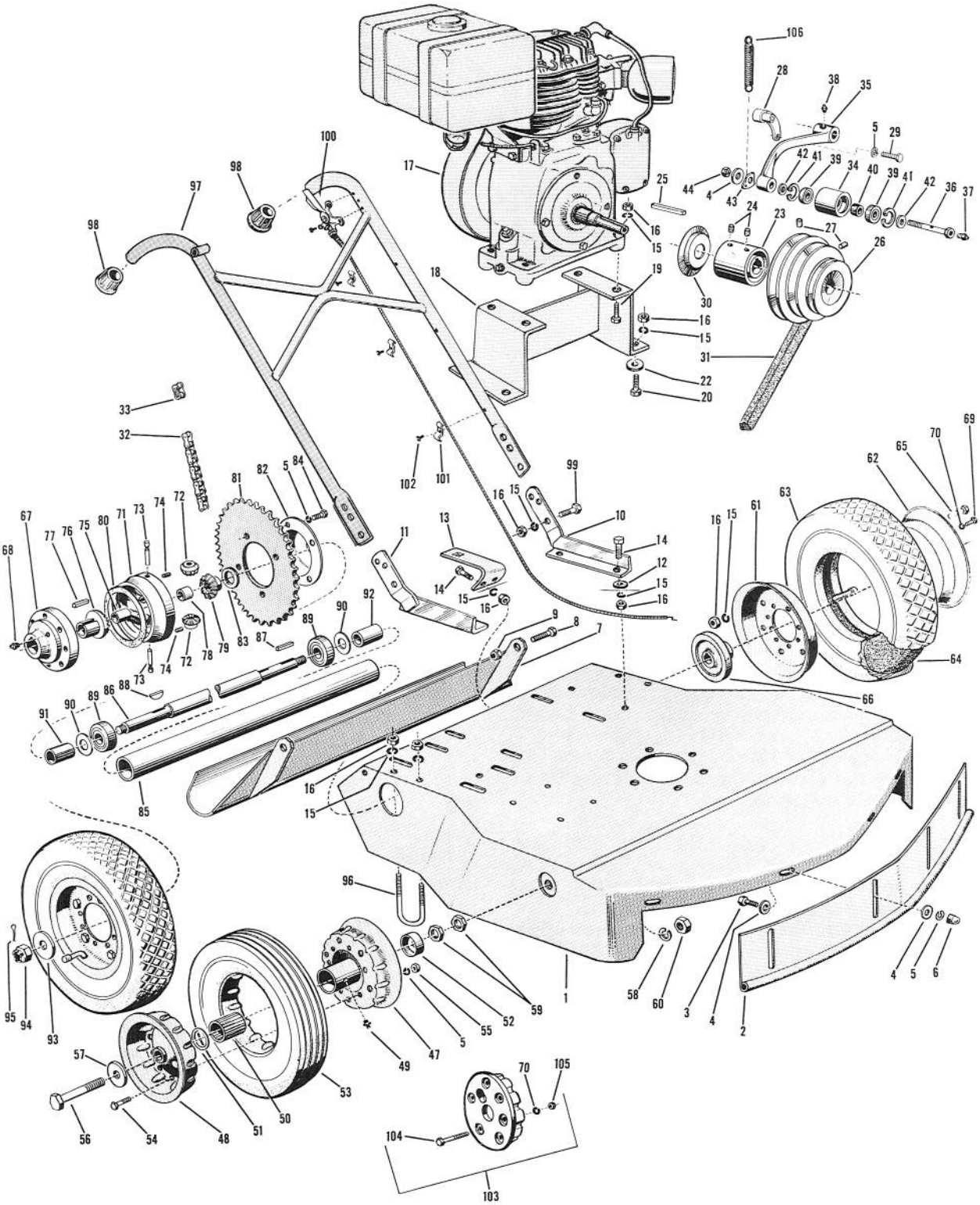


FIG. 10

To adjust chain tension, (see Fig. 10) release clutch lever "A" put block under axle to raise right rear wheel off of the ground; loosen bolt "B" and move idler sprocket "C" forward until chain is snug. Tighten bolt "B" by hand, turn wheel over to make sure the chain does not bind in any position. Then tighten bolt "B" securely.

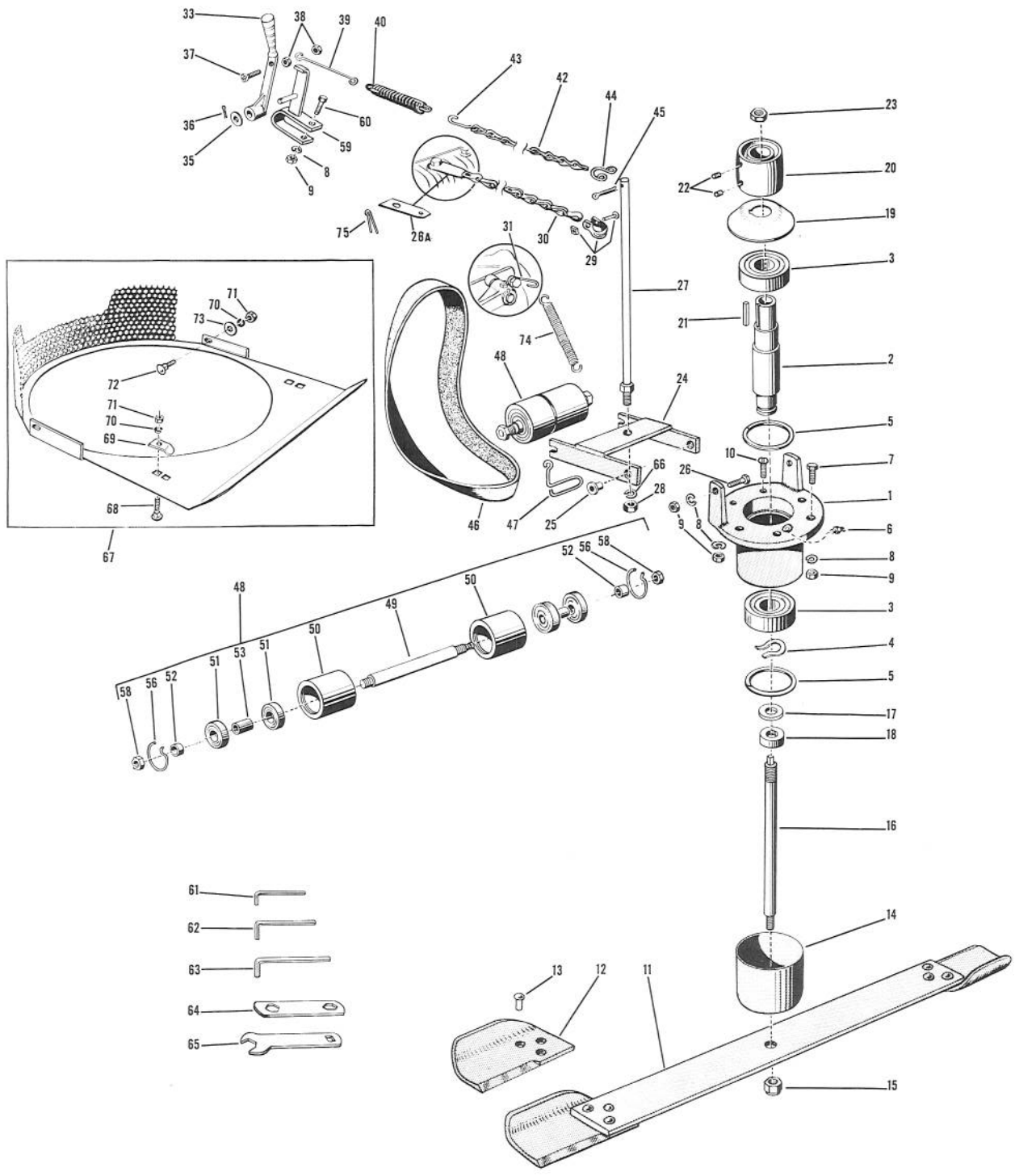


PARTS LIST

Ref. No.	Part No.	Description	No. Used
1	WW-6656	Main Frame	1
2	WW-6660	Front Guard	1
3	322-4	Screw, 5/16" N.C. x 7/8"	4
4	3256-3	Washer, 5/16" Cut	9
5	3253-4	Lockwasher 5/16" Reg.	22
6	32111-4	Acorn Cap Nut, 5/16" Plated	4
7	WW-6662	Rear Guard	1
8	WW-5297	Screw	2
9	3296-11	Nut, Elastic Stop, 3/8"	2
10	WW6525-1	Handle Bracket, Left	1
11	WW6525-2	Handle Bracket, Right	1
12	WW-5313	Rubber Washer	4
13	WW-5938	Sulky Hitch Plate	1
14	323-7	Screw, 3/8" N.C. x 1-1/4"	6
15	3253-5	Lockwasher, 3/8" Reg.	30
16	3217-7	Nut, 3/8" N.C. Full	30
17	221-35	Engine, Wisconsin BKN	1
18	WW-5419	Engine Base	1
19	323-11	Screw, 3/8" N.C. x 2-1/4"	4
20	323-6	Screw, 3/8" N.C. x 1"	4
22	3256-4	Washer, 3/8" Cut	2
*	WWK-6521	"V" Belt Idler Assembly	1
23	WW-5440	Pulley, Flat Belt	1
24	3247-3	Set Screw	2
25	WC-1472	Key	1
26	WW-6517	Pulley, "V" Belt (Reverse Drive) (3 Groove)	1
26	WW-5436	Pulley, "V" Belt (Forward Drive) (2 Groove)	1
27	3245-9	Set Screw	2
28	WWK-6735	Idle Bracket Assy.	1
29	322-16	Screw, 5/16" N.C. x 1-1/8"	2
30	WW-6575	Collar	1
31	271-56	"V" Belt (Reverse Drive)	1
31	WW5403A	"V" Belt (Forward Drive)	1
32	WW-6536-1	Roller Chain (Reverse Drive)	1
32	WW-6536-3	Roller Chain (Forward Drive)	1
33	2710-26	Connecting Link	1
34	WW-6518	Idler Pulley	1
35	WW-6519	Idler Arm	1
36	WW-6539	Idler Shaft	1
37	302-18	Zerk Fitting	1
38	302-19	Zerk Fitting	1
39	251-109	Bearing	2
40	WW-6520	Spacer	1
41	32120-10	Retainer Ring	2
42	T-99	Washer	2
43	WW-5652	Spring Anchor	1
44	3218-3	Nut, 3/8" N.C. Jam	1
*	241-35	Front Wheel Complete	2
47	241-33	Wheel Disc & Hub, Inside Front	
48	241-34	Wheel Disc, Outside Front	2
49	302-21	Zerk Fitting	2
50	252-46	Bearing, Front Wheel	2
51	252-47	Retainer, Bearing	2
52	241-18	Hub Cap	2
53	234-4	Tire	2
54	321-2	Screw, 1/4" N.C. x 1/2"	12
55	3219-1	Nut, 1/4" N.C. Full	12

Ref. No.	Part No.	Description	No. Used
56	WW-5300A	Stub Axle	2
57	3256-28	Washer, 3/4" S.A.E.	4
58	3253-16	Lockwasher, 3/4" Reg.	2
59	3220-7	Nut, 3/4" N.F. Jam	4
60	3219-7	Nut, 3/4" N.F. Full	2
*	WWK-5279	Rear Wheel Assembly	2
61	241-13	Wheel Disc, Inside Rear	2
62	241-12	Wheel Disc, Outside Rear	2
63	231-2	Tire, Rear	2
64	232-2	Tube, Rear	2
65	323-4	Screw, 3/8" N.C. x 3/4"	12
66	WW-5272	Wheel Hub, Left Rear	1
67	4-9510	Wheel Hub, Right Rear	1
68	302-2	Zerk Fitting	1
69	321-3	Screw, 1/4" N.C. x 5/8"	16
70	3253-3	Lockwasher, 1/4" Reg.	16
71	4-9540	Differential Spider	1
72	WW-5600	Pinion	2
73	WW-6107	Pinion Shaft	2
74	3245-1	Set Screw	2
75	WW-5578A	Bushing	1
76	WWK5577	Bevel Gear w/Bushing (Long Hub)	1
77	WW-5155	Key	1
78	WW-5599A	Bushing	1
79	WW-5581	Bevel Gear (Short Hub)	1
80	WW-5262	Grease Seal	1
81	WW-5621	Sprocket (Reverse Drive)	1
81	WW-5615	Sprocket (Forward Drive)	1
82	WW-5625	Differential Cover	1
83	WW-5624	Seal, Felt	1
84	322-3	Screw, 5/16" N.C. x 3/4"	4
*	WWK-5209	Rear Axle Assembly (Reference Numbers 85 thru 95)	1
85	WW-5128	Axle Housing	1
86	WW-5138	Rear Axle	1
87	WW-5155	Key	1
88	3257-5	Key	1
89	251-82	Bearing	2
90	WW-5144	Washer	2
91	WW-5143	Spacer, Right Hand	1
92	WW-5148	Spacer, Left Hand	1
93	3256-19	Washer, 3/4"	2
94	3221-6	Nut, 3/4" N.C., Castellated	2
95	3272-12	Cotter Pin, 1/8" x 1-1/4"	2
96	WW-5122	"U" Bolt	2
97	WW-5332B	Handle	1
98	235-4	Handle Cap	2
99	323-8	Screw, 3/8" N.C. x 1-1/2"	4
100	WWK-373	Throttle Control Assembly	1
101	WWK-5380	Clamp	3
102	3251-1	Screw, 10-24 x 3/8"	5
103	WWK-6615	Wheel Weights (Optional Equipment)	4
104	321-15	Screw, 1/4" N.C. x 2-1/2"	12
105	3217-5	Nut, 1/4" N.C.	12
106	WW-5657	Spring	1
*	WW-6765	Frame Decal	1

* Not Illustrated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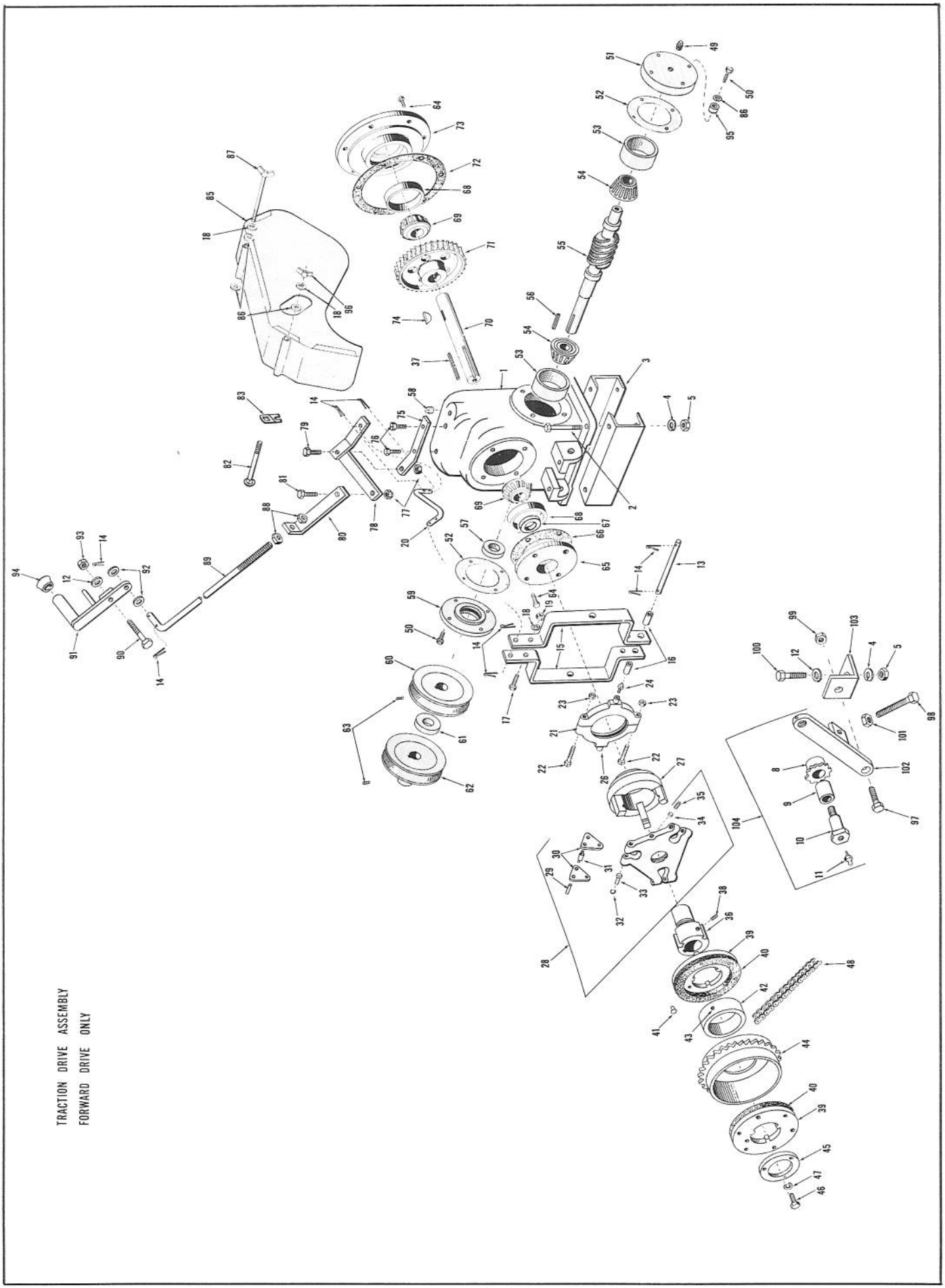
PARTS LIST

Ref. No.	Part No.	Description	No. Used
*	WWK-5127	Cutter Unit Complete	1
1	WW-5003A	Cutter Housing	1
2	WW-5017	Sleeve	1
3	251-81	Bearing	2
4	WW-5082	Snap Ring	1
5	32120-31	Snap Ring	2
6	302-22	Zerk Fitting	1
7	323-7	Screw, 3/8" N.C. x 1-1/4" Cap	4
8	3253-5	Lockwasher, 3/8" Reg.	9
9	3217-7	Nut, 3/8" N.C. Full	9
10	32106-6	Screw, 3/8" N.C. x 1-1/4" Mach.	2
11	WWK-5408	Cutter Bar Assembly	1
*	WWK-5701	Cutter Bar Assembly, (Non-Suction) Optional	1
12	WW-1501	Cutter Blade	2
*	WW-1504	Cutter Blade (Non-Suction) Optional	2
13	3264-1	Rivet	6
14	WW-5041A	Cup, Cutter Shaft	1
15	WW-5096A	Nut, 5/8", Left Hand	1
16	WW-5011	Cutter Arm Shaft	1
17	WW-5030	Spacer, (1/4")	2
18	WW-5035	Cutter Shaft Spacer (1/2")	5
19	WW-5078	Flinger	1
20	WW-5020	Pulley	1
21	WW-5025	Key	1
22	3247-3	Set Screw	2
23	3219-8	Nut, 7/8" N.F.	1
24	WWK-6565	Cantilever Frame w/bush's.	1
25	WW-1005	Bushing	2
26	323-8	Screw, 3/8" N.C. x 1-1/2"	2
26A	WW5503	Spring Anchor	1
27	WWK-6780	Throwout Rod	1
28	3219-7	Nut, 3/4" N.F.	1
29	2412-1	Hose Clamp Assembly	1
30	WW-5771-2	Chain	1
31	WW-5851	Spring Anchor	2
33	WW6557-7	Handle Assembly	1
35	3256-4	Washer, 3/8" Cut	1
36	3272-10	Cotter Key	1

Ref. No.	Part No.	Description	No. Used
37	32114-14	Screw, 5/16"x1¼"Fil. Head	1
38	3218-2	Nut, 5/16" N.C. Jam	2
39	WW-5777	Spring Hook Extension	1
40	WWK-5857	Draw Bar Spring Assembly	1
42	WW-5771-4	Chain	1
43	WW-5762	Hook	1
44	WW-5774	Clevis	1
45	3272-23	Cotter Key	1
46	WW-6601A	Flat Belt 22-4410	1
47	WW-5878	Belt Guide	2
48	WWK-6740	Cantilever Shaft Assembly	1
*49	WW-1018B	Shaft (25106-101 Thru 25106-299)	1
49	WW-1018C	Shaft (25106-300 & Up)	1
50	WW-1031A	Idler Pulley	2
51	251-5	Bearing (25106-300 & Up)	4
*51	251-123	Bearing, use w/WW101B Shaft Only.	4
52	WW-1040B	Bearing Spacer	2
53	WW-1045A	Bearing Spacer	2
56	WW-5656	Snap Ring	2
58	3220-6	Nut, 5/8" N.F. Jamb	2
59	WW-6580	Bracket, Throwout Handle	1
60	323-10	Screw, 3/8" N.C. x 2"	1
*	302-17	Grease fitting use with WW-1018B Shaft only	1
61	223-7	Socket Wrench, 1/4"	1
62	223-8	Socket Wrench, 5/16"	1
63	223-2	Socket Wrench, 3/8"	1
64	WW-5042B	Wrench	1
65	WW-5042A	Wrench	1
66	3253-16	Lockwasher, 3/4" Spring	1
67	LMK-19	Leaf Mulcher Assembly	1
68	3230-4	Bolt, 5/16" N.C. x 1-1/2" Carr.	2
69	LM-422	Clip	2
70	3253-4	Lockwasher 5/16" Reg.	4
71	3217-6	Nut, 5/16" N.C. Full	4
72	3230-2	Bolt, 5/16"N.C. x 1" Carr.	2
73	3256-2	Washer, 1/4" Cut	2
74	WW-5856	Spring	1
75	3272-8	Cotter Key	1

* Not Illustrated



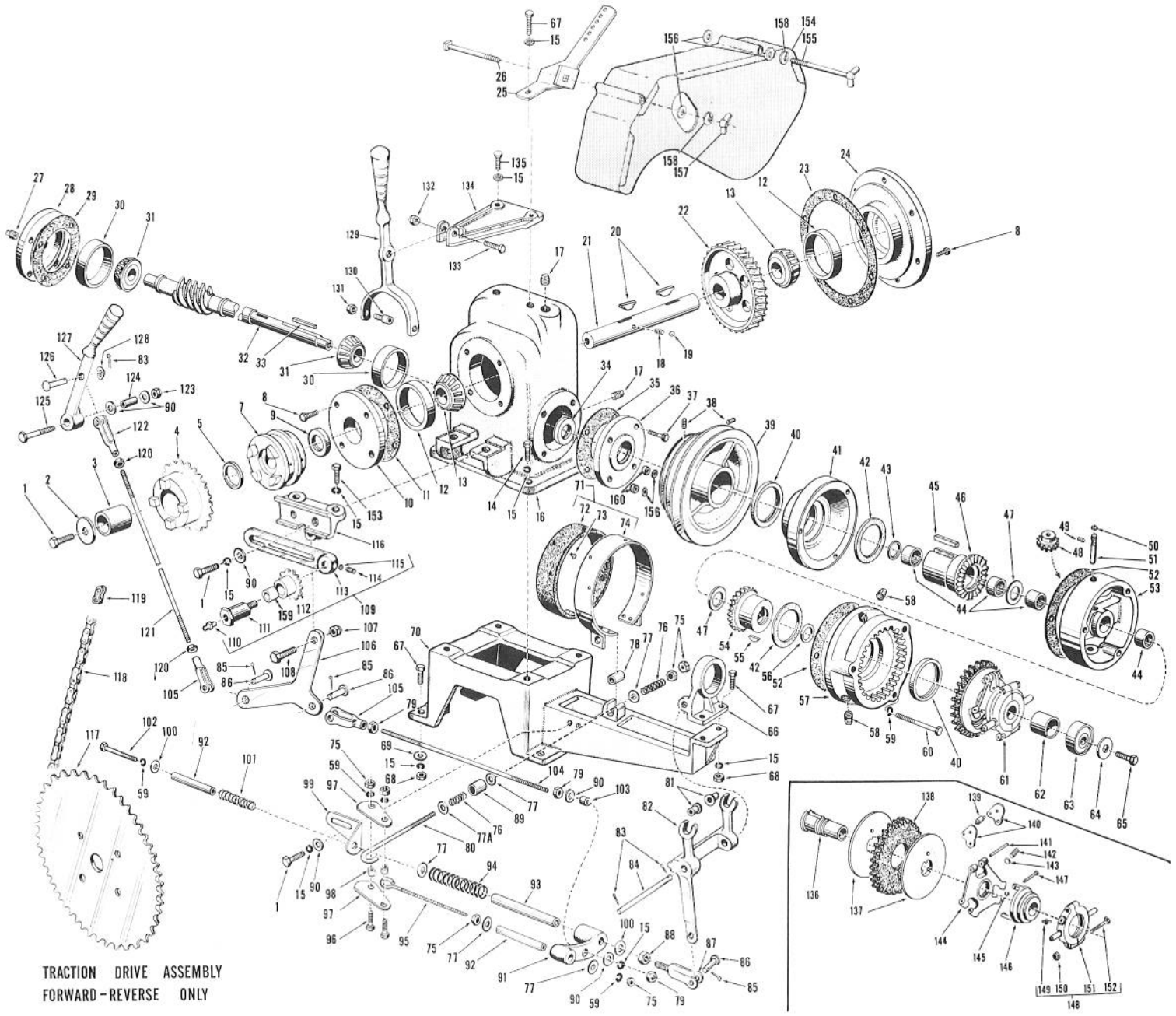
TRACTION DRIVE ASSEMBLY
FORWARD DRIVE ONLY

PARTS LIST

Ref. No.	Part No.	Description	No. Used
1	WS200	Housing	1
2	323-20	Screw, 3/8"N.C. x 3-1/4"	4
3	WW-5594	Base, Speed Reducer	2
4	3253-5	Lockwasher, 3/8" Reg.	6
5	3217-7	Nut, 3/8" N.C. Full	7
6	WW-6007A	Bracket	1
7	3231-2	Bolt, 3/8"N.C. x 1" Carr.	2
8	WWK-6372	Sprocket w/Bushing	1
9	256-17	Bushing	1
10	WW-5505	Stud	1
11	302-2	Grease Fitting	1
12	3256-4	Washer, 3/8" Cut	4
13	WW-5614	Fulcrum Pin	1
14	3272-10	Cotter Pin	6
15	WW-5608	Shift Yoke	2
16	WW-5612	Spacer	2
17	322-5	Screw, 5/16" N.C. x 1"	2
18	3253-4	Lockwasher, 5/16" Reg.	4
19	3217-6	Nut, 5/16" N.C. Full	2
20	WW-5607	Clutch Link	1
21	352-137	Release Bearing Assy. includes Refs. #22, 23. 24, 26	1
22	3210-9	Screw, 5/16" N.F. x1-3/4"	2
23	3296-4	Nut, 5/16" Stop	2
24	302-22	Grease Fitting	1
26	352-143	Trunnion Sleeve	2
27	352-134	Release Sleeve	1
28	352-144	Adjusting Plate Assy.	1
29	352-148	Lever Pin	3
30	352-146	Lever	6
31	352-147	Roller	3
32	352-163	Snap Ring	3
33	352-162	Pin	3
34	352-150	Lock Plug	1
35	32130-2	Set Screw	1
36	352-156	Body	1
37	352-158	Key	1
38	3287-9	Set Screw	1
39	352-151	Plate Assy., includes Refs. #40 & 41	2
40	352-155	Facing	2
41	2118-22	Rivet	12
42	352-159	Bushing	1
43	352-160	Pin	1
44	CL-425	Sprocket	1
45	352-165	Washer	1
46	329-3	Screw	3
47	3253-3	Lockwasher, 1/4" Reg.	3
48	WW-6363	Chain	1
*	2710-26	Connecting Link	1
49	281-7	Plug	1
50	322-3	Screw, 5/16" N.C. x 3/4"	8
51	WS255	Bearing Cap	1

* Not Illustrated

Ref. No.	Part No.	Description	No. Used
52	WS-231	Gasket, .007 Thick	3
*	WS-230	Gasket, 1/32 Thick	2
53	254-19	Bearing Cup	2
54	254-37	Bearing Cone	2
55	WM-252	Worm Shaft, High Speed	1
56	WM-364	Key	1
57	253-34	Oil Seal (High Speed Shaft)	2
58	281-2	Plug	2
59	WS-240	Bearing Cap	1
60	WW-5453	Pulley	1
61	WW-5458	Spacer	1
62	WW-5454	Pulley	1
63	3246-2	Set Screw	2
64	321-3	Screw, 1/4" N.C. x 5/8"	10
65	WS-285	Bearing Cap	1
66	WS-295A	Gasket	1
67	253-33	Oil Seal	1
68	254-38	Bearing Cup	2
69	254-39	Bearing Cone	2
70	WS-275	Shaft, Slo Speed	1
71	WM-268	Worm Gear	1
72	WS-260	Gasket	1
73	WS-280	Bearing Cap	1
74	3257-22	Key	1
75	WW-5606	Fulcrum	1
76	323-4	Screw, 3/8" N.C. x 3/4"	2
77	3296-11	Nut, 3/8" N.C. Lock	2
78	WW-5604	Link	1
79	WW-5297	Screw	1
80	WW-5526A	Link	1
81	323-6	Screw, 3/8" N.C. x 1"	1
82	3230-13	Bolt, 5/16"N.C. x3-1/4" Carr.	1
83	WW-6770	Guard Bracket	1
85	WW-6681	Guard	1
86	3256-23	Washer, 5/16" SAE	7
87	WW-6687	Wing Bolt	1
88	3217-8	Nut, 7/16" N.C. Full	2
89	WW-6768	Shift Rod	1
90	WW-5513	Special Screw	1
91	WW-5566A	Handle	1
92	3256-25	Washer	2
93	3296-6	Nut, 3/8" N.F. Lock	1
94	235-3	Handle Cap	1
95	WW6773	Sealing Washer	4
96	32103-2	Wing Nut	1
97	325-4	Screw, 1/2" N.C. x 1"	1
98	WW-5569	Adjusting Bolt	1
99	3218-5	Nut, 1/2" N.C. Jam	1
100	323-7	Screw, 3/8" N.C. x 1-1/4"	1
101	3218-3	Nut, 3/8" N.C. Jam	1
102	WW6011	Arm, Chain Tightener	1
103	WW6456	Bracket	1
104	WWK-6001	Chain Tightener Assy.	1



TRACTION DRIVE ASSEMBLY
FORWARD - REVERSE ONLY

PARTS LIST

Ref. No.	Part No.	Description	No. Used
1	323-4	Screw, 3/8" N. C. x 3/4"	6
2	WW-6751	Washer	1
3	256-47	Bushing	1
4	WW-6750	Sprocket, Output	1
5	WW-6530	Thrust Washer	1
7	WW-6749	Sliding Hub	1
8	321-3	Screw, 1/4" N. C. x 5/8"	10
9	253-33	Oil Seal	1
10	WS-285	Bearing Cap	1
11	WS-295A	Gasket	1
12	254-38	Bearing Cup	2
13	254-39	Bearing Cone	2
14	323-18	Screw, 3/8" N. C. x 1-1/8"	4
15	3253-5	Lockwasher, 3/8" Reg.	19
*	WWK-6618	Speed Reducer Assembly	1
16	WS-200A	Housing	1
17	281-2	Pipe Plug	2
18	224-15	Spring	1
19	255-1	Steel Ball	1
20	3257-19	Key	2
21	WW-6607	Output Shaft	1
22	WM-266	Worm Gear	1
23	WS-260	Gasket	4
24	WS-280	Bearing Cap	1
25	WW-6684-1	Guard Brkt.	1
26	3230-13	Bolt, 5/16" N.C.X 3¼"	1
27	281-7	Pipe Plug	1
28	WW-6512	Bearing Cap	1
29	WW-6515	Gasket	1-3
30	254-16	Bearing Cup	2
31	254-15	Bearing Cone	2
32	WW-6510	Worm Shaft	1
33	WW-127	Key	1
34	253-57	Oil Seal	1
35	WW-6513	Gasket	1-3
36	WW-6608	Bearing Cap	1
37	322-3	Screw, 5/16" N.C. x 3/4"	8
38	3245-9	Set Screw	2
39	WW-6532	Pulley	1
40	253-58	Oil Seal	2
41	WW-6509	Cover, Reverse	1
42	256-44	Thrust Washer	2
43	253-59	Oil Seal	1
44	252-45	Needle Bearing	4
45	WW-6502	Key	1
46	WW-6505	Bevel Gear, Long Hub	1
47	256-45	Thrust Washer	2
48	WW-5600	Pinion	2
49	3245-7	Set Screw	2
50	237-7	"O" Ring	2
51	WW-6107	Pinion Shaft	2
52	WW-6534	Gasket	2
53	WW-6507	Reverse Gear Housing	1
54	WW-6506	Bevel Gear, Short Hub	1
55	3257-5	Key	1
56	237-20	"O" Ring Seal	1
57	WW-6508	Clutch Housing	1

* Not Illustrated

Ref. No.	Part No.	Description	No. Used
58	285-11	Pipe Plug	2
59	3253-4	Lockwasher, 5/16" Reg.	7
60	322-22	Screw, 5/16" N. C. x 3½"	1
61	352-187	Clutch Assembly	1
62	WW-6535	Clutch Spacer	1
63	251-5	Bearing	1
64	2P-9	Washer	1
65	323-5	Screw, 3/8" N.C. x 7/8"	1
66	WW-6514	Bearing Block	1
67	323-7	Screw, 3/8" N.C. x 1¼"	6
68	3217-7	Nut, 3/8" N.C. Full	8
69	3256-4	Washer, Cut	4
70	WW-6516	Reducer Base	1
71	WWK-6563	Reverse Brake Band Assembly	1
72	3P-29A	Brake Lining	1
73	3295-6	Rivet, Lining	9
74	WW-6551	Brake Band	1
75	3219-2	Nut, 5/16" N.C. Full	6
76	WW-6561	Spring	2
77	3256-3	Washer, 5/16" Cut	1
77A	GB-28	Washer	1
78	WW-6543	Spacer	1
79	3219-3	Nut, 3/8" N. F. Full	3
80	WW-6545	Hook	1
81	WW-6549	Bushing	2
82	WW-6548	Clevis	1
83	3272-6	Cotter Key	3
84	WW-6554	Clevis Pin	1
85	3272-6	Cotter Key, 3/32" x 3/4"	3
86	283-1	Yoke Pin	3
87	WW-6553	Yoke	2
88	3220-2	Jam Nut, 5/16" N. F.	1
89	WW-6562	Bushing	1
90	3256-24	Washer, 3/8" S. A. E.	6
91	WW-6544	Rod End	1
92	WW-6564	Spacer	1
93	WW-6547	Spacer, Clutch Spring	1
94	WC-1467	Spring	1
95	WW-6541	Eye Bolt, Reverse Cam	1
96	3210-5	Screw, 5/16" N.C. x 1"	2
97	WW-6542	Reverse Cam	2
98	GB-108	Bushing	2
99	WW-6550	Bracket, Clutch Bar	1
100	3256-23	Washer, 5/16" S. A. E.	3
101	WW-6538A	Spring	1
102	3210-13	Screw, 5/16" N. F. x 3"	1
103	WW-6567	Spacer	1
104	WW-6556	Stud	1
105	GB-119	Rod Yoke	2
106	WW-6558	Crank	1
107	3296-29	Nut, Elastic Stop, 5/16"-18	1
108	322-7	Screw, 5/16" N.C. x 1-1/2"	1
109	WWK-6672	Chain Idler & Crank Bracket Assembly	1
110	302-2	Zerk Fitting	1
111	WW-5505A	Stud, Chain Tightener	1
112	WWK-6372	Sprocket, Idler W/Bushing	1
113	WW-6559	Bracket, Idler	1

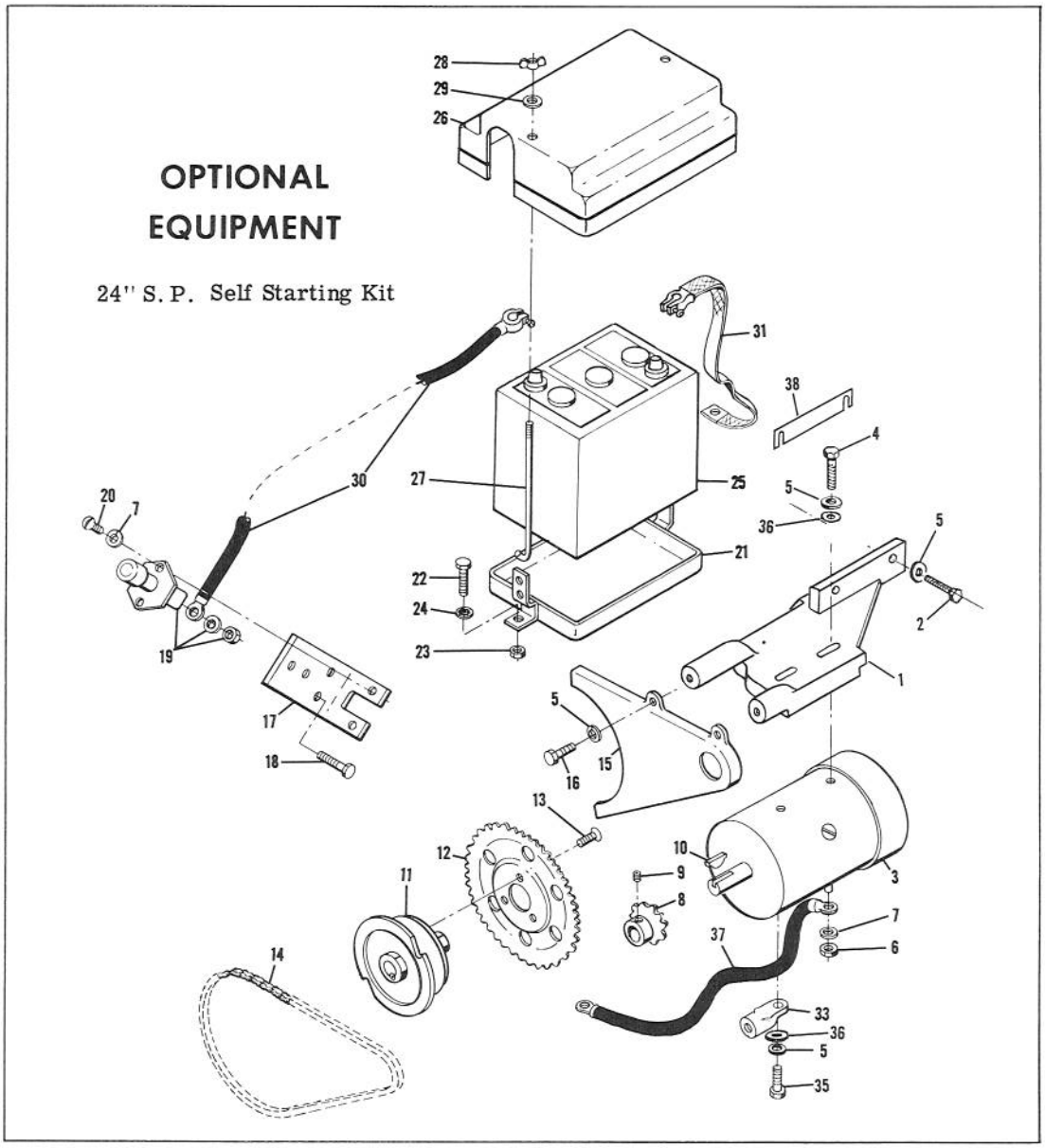
(Continued on next page)

PARTS LIST

Ref. No.	Part No.	Description	No. Used
114	32133-24	Set Screw	1
115	PD-53	Plug	1
116	WW-6568A	Crank Bracket	1
117	WW-5621	Sprocket Differential (48 Tooth)	1
118	WW-6536	Drive Chain	1
119	2710-26	Connecting Link	1
120	3220-3	Nut, 3/8" N. F. Jam	2
121	WW-6555	Rod	1
122	282-1	Yoke	1
123	3296-6	Nut, Elastic Stop, 3/8" N. F.	1
124	WW-6132	Bushing	1
125	3211-14	Screw, 3/8" N. F. x 3 1/4"	1
126	283-2	Yoke Pin	1
127	WW6557-1	Reverse Lever	1
128	3290-211	Spring Washer	1
129	WW-6526	Shift Lever	1
130	3274-11	Socket Capscrew, 5/16" N. C. x 3/4"	2
131	3218-2	Nut, 5/16" N. F. Jam	2
132	3296-29	Nut, Elastic Stop, 5/16" - 18	1
133	322-7	Screw, 5/16" N. C. x 1-1/2"	1
134	WW-6523	Bracket, Shift Lever	1
135	323-6	Screw, 3/8" N. C. x 1"	2

Ref. No.	Part No.	Description	No. Used
136	352-170	Clutch Body	1
137	352-171	Clutch Plate	2
138	352-172	Clutch Facing	1
139	352-173	Roller	3
*139A	352-169	Lever Assembly	1
140	352-174	Clutch Lever	6
141	352-175	Adj. Spider Pin	3
142	352-180	Adj. Lock Screw	1
143	352-181	Lock Plug	1
144	352-182	Adjusting Spider	1
145	352-183	Ring, Retaining	3
146	352-177	Release Sleeve	1
147	352-184	Link Pin	3
148	352-178	Release Bearing Assy.	1
149	302-5	Zerk Fitting	1
150	3296-27	Nut, 10-32 Stop	2
151	352-179	Release Bearing Less Zerk	1
152	32144-10	Screw, 10-32 x 1 1/2" Mach.	2
153	323-5	Screw, 3/8" N. C. x 7/8	2
154	WW-6681	Belt Guard	1
155	WW-6687	Wing Bolt	1
156	3256-23	Washer, 5/16" S. A. E.	7
157	32103-2	Wing Nut	1
158	3253-4	Lockwasher, 5/16" Reg.	2
159	256-17	Bushing	1
160	WW-6773	Sealing Washer	4

* Not Illustrated



PARTS LIST

Ref. No.	Part No.	Description	No. Used
*	218-134	Starter Assembly Kit	1
1	218-116	Bkt., Starter Motor	1
2	323-7	Screw, 3/8-17 x 1-1/4	2
3	218-115	Motor, Starter	1
4	322-5	Screw, 5/16 - 18 x 1	2
5	3253-4	Lockwasher, 5/16 Spring	4
6	3217-5	Nut 1/4 - 20	1
7	3253-3	Lockwasher, 1/4" Reg.	3
8	218-117	Sprocket, 10 Tooth	1
9	32133-26	Set Screw, #10-32 x 1/4	1
10	3257-2	Woodruff Key, 1/8 x 5/8	1
11	218-118	Clutch, Over-riding	1
12	218-119	Sprocket, 49 Tooth	1
13	32108-2	Screw Flat Hd. Mach. 1/4-20 x 1/2	3
14	WW6748	Chain with connector link	1
15	218-120	Chain Guard	1
16	322-3	Screw, 5/16-18 x 3/4	2
17	WW-6747	Bracket, Switch	1

Ref. No.	Part No.	Description	No. Used
18	323-9	Screw, 3/8" - 16 x 1-3/4"	2
19	218-112	Switch, Starter	1
20	3258-2	Screw, 1/4"-20x1/2" Mach.	2
21	WW-6745	Base Assembly, Battery	1
22	322-4	Screw, 5/16" - 18 x 7/8"	2
23	3217-6	Nut, 5/16" - 18 Full	2
24	3254-2	Lockwasher, 5/16" Int.	2
25	**	Battery	1
26	WW-6752	Cover, Battery	1
27	WW-6746	Bolt, Hook	2
28	32103-1	Nut, 1/4" - 20 Wing	2
29	3256-2	Washer, 1/4" Cut	2
30	T-1015	Battery Cable	2
31	218-74	Strap, Ground	1
33	218-122	Lug	1
35	322-1	Screw, 5/16" - 18 x 1/2"	1
36	3256-23	Washer	3
37	218-128	Switch Cable	1
38	WW-6774	Shim	1

* Not Illustrated

** Obtain Locally

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Toro power mowers and Power Handle implements are designed and built to give years of precision performance . . . to make them "the best you can buy." And there's over 40 years of manufacturing experience to back them up.
One of Toro's most important objectives — and one which has helped make Toro the world's largest manufacturer of power mowers — is to provide the customer with complete local service and parts. This Toro has done through an extensive chain of service dealers, factory-trained to give you the most careful, competent care for your Toro work-saver.

19" ROTARY

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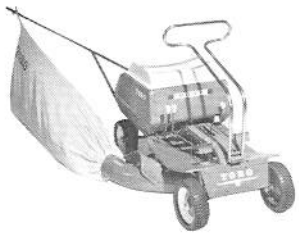
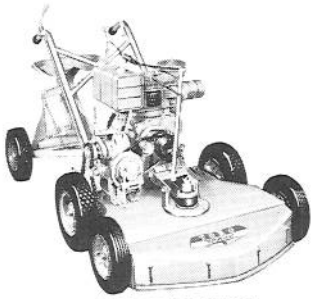
21" SELF-PROPELLED ROTARY

20" SPORTLAWN

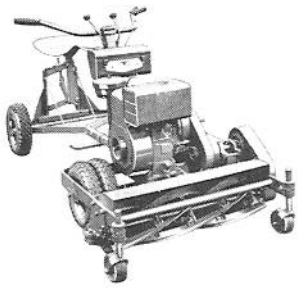
27" STARLAWN



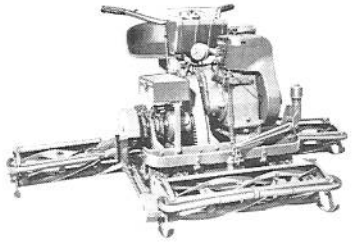
25" PONY



31" GRASSKING

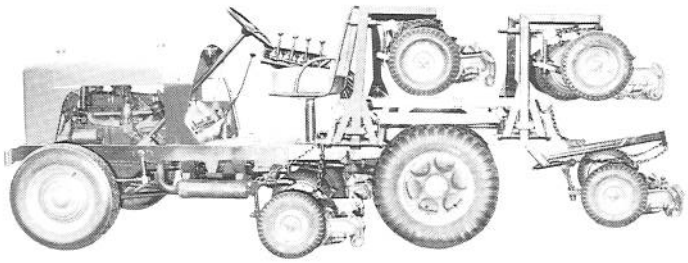


30" PARK SPECIAL



76" PROFESSIONAL

32" SELF-PROPELLED ROTARY



7 UNIT HYDRAULIC PARKMASTER

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