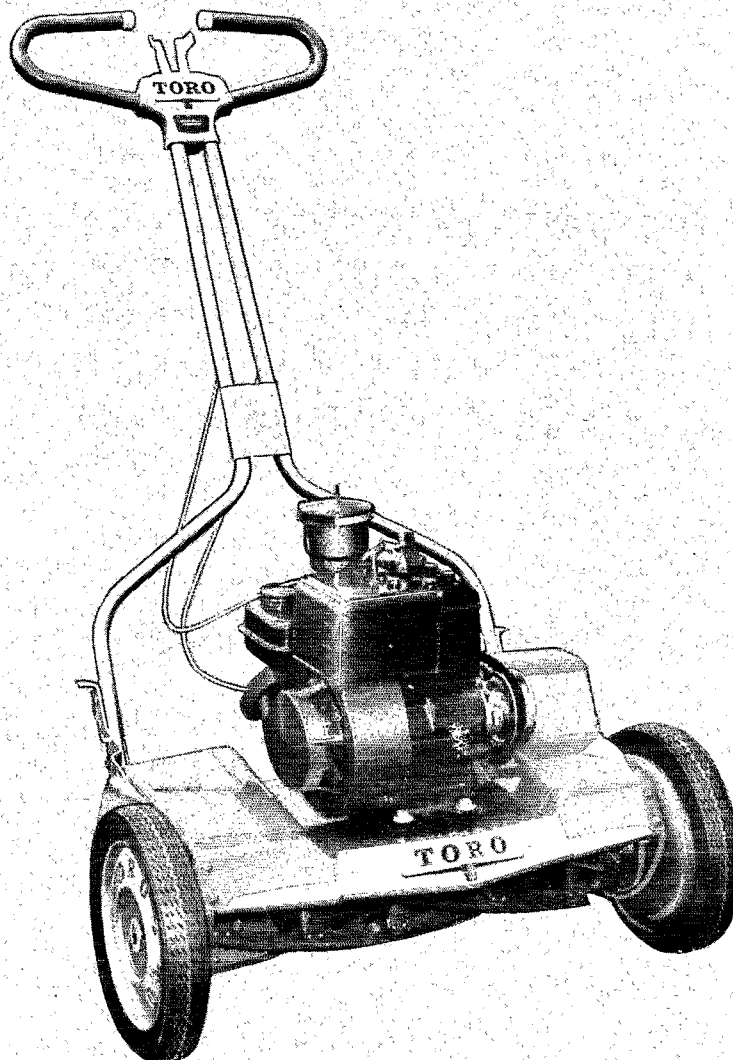


TORO

1958
OWNER'S
OPERATING
AND PARTS
MANUAL

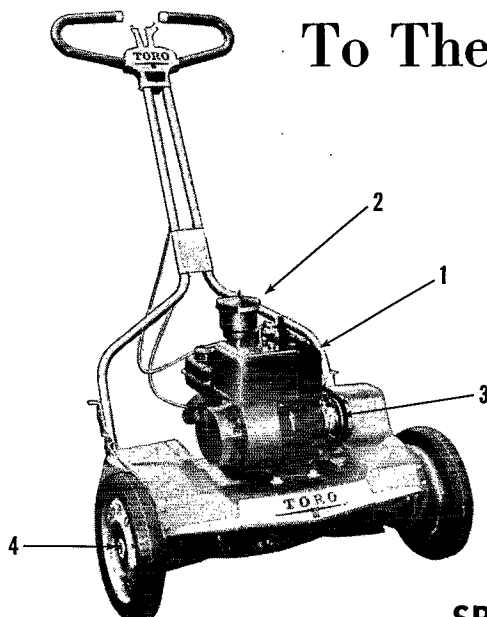


TORO-20" SPORTLAWN

SERIAL NO. 10118-1000 AND UP
10128-1000 AND UP

Price 25 cents





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 20" Sportlawn. For best performance from your Toro Sportlawn, study this manual for regular maintenance procedures.

LUBRICATION

1. Engine: See Engine Manual
2. Air Cleaner: See Engine Manual
3. Clutch: Put a few drops of good lubricating oil in cup each time mower is used.
4. Wheel Axle: Remove plug button, put a few drops of oil on axle, oil frequently.

SPECIFICATIONS

ENGINE: Briggs and Stratton 6BS

FUEL TANK CAPACITY: 1 quart

CLUTCH: Die cast split pulley type operating both traction and reel drive, mounted on engine shaft.

REEL DRIVE: "A" section V-belt from engine to countershaft, 2.6 P.D. and 5 P.D. pulleys (1.9 : 1 reduction). 1/2" pitch X 3/16" wide guarded roller chain, operating on 10 T. and 23 T. sprockets from countershaft (2.3 : 1 reduction).

REDUCTION, ENGINE TO REEL: 4.4 : 1

REEL: 6" dia. with 6 blades riveted to formed steel spiders, 5/8" dia. shaft on double sealed ball bearings.

BED KNIFE & BAR: Replaceable single lipped chrome steel knife riveted to cast iron bed bar with 5/16 x 3/4 steel reinforcing bar and center adjustment, opposed screw adjustment on stainless steel ball pivots.

TRACTION DRIVE: 12 pitch gears, 13 T pinion and 86 T internal spur gear in wheel (6.6 : 1 reduction).

REDUCTION, ENGINE TO WHEELS: 29 : 1

WHEELS: Die cast aluminum alloy - with oil impregnated bronze bushing.

TIRES: Semi-pneumatic, Toro thread, 1.75 x 10.50

DIFFERENTIAL: Rectangular dogs in ratchet pinion

HEIGHT OF CUT: 1/4 to 2-1/2 by 1/4 increments by combination of wheel and roller adjustment - no tools required for roller adjustment.

WIDTH OF CUT: 20"

CLIP: 6 Blade .83"

GROUND SPEED: 3.9 mph at 3600 engine rpm.

CHASSIS & SIDEPLATES: Formed 12 ga. sideplates connected by two 1" O.D. 13 ga. wall steel tubes, covered with a formed steel platform.

HANDLE: 3/4" O.D. X 16 gauge wall welded steel tubing in separate halves. Plastic tubing grip, height adjustable without tools to suit operator.

ROLLER: Three section oil impregnated maple, 2-3/4 dia. on 11/16 dia. 13 ga. wall tubular steel shaft.

DIMENSIONS:

Width	27 1/2"
Length	17 1/2" - Without handle at
Height	21" 1" height of cut.

WEIGHT: 90 Pounds

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 as engines.) 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.

OPERATING INSTRUCTIONS

TIPS ON LAWN MOWING

How you mow your lawn will greatly influence its health, vigor and appearance. Here are some fundamental suggestions that may help you.

HEIGHT OF CUT: The leaves carry "chlorophyll" which is responsible for the green color of the lawn. The leaves also are the "factory" where the plant manufactures its food. The number and amount of leaves (leaf mass) are a function of the species of type of grass, as well as the height of cut. Creeping or "runner" types of grass (Creeping Bent Grass, Bermuda Grass) will produce sufficient leaf surface at much lower heights of cut than will non-creeping types. Under most conditions, lawns should be clipped at a height of 1 to 1½ inches. Creeping Bent Grass and fine leaved Bermuda Grass make a better lawn when cut at ½ to ¾'s of an inch.

FREQUENCY OF MOWING: The frequency of cutting is as important as the height of cut. Lawn grasses should be cut often enough so that never more than ½ inch, preferably ¼ inch of leaf surface is removed at any one clipping. If more leaf surface is removed, the plant is "shocked" and will not grow properly until it recovers.

CLIPPINGS: When returned to the soil, clippings will provide plant food upon decomposition. They also act as a mulch; hence, retard evaporation. Clippings should be removed if too much leaf surface is being clipped; otherwise they may smother the grass. Removal of clippings is also recommended if the lawn has a tendency to develop "mat".

DIRECTION OF MOWING:

Lawn Areas: cut in different directions at each mowing.

Terraces: cut up and down hill when mowing the crown. Also cut high (1 to 1½ inches) to help avoid erosion and evaporation.

MOWER: To maintain a well-groomed appearance, the lawn must always be cut with a sharp, properly adjusted mower. Dull, improperly adjusted mowers leave the lawn ragged and often the grass will turn gray and brown off on the leaf tips. Keep Your Mower Operating Properly.

20" SPORTLAWN HEIGHT OF CUT

RECOMMENDED WHEEL AND ROLLER POSITIONS

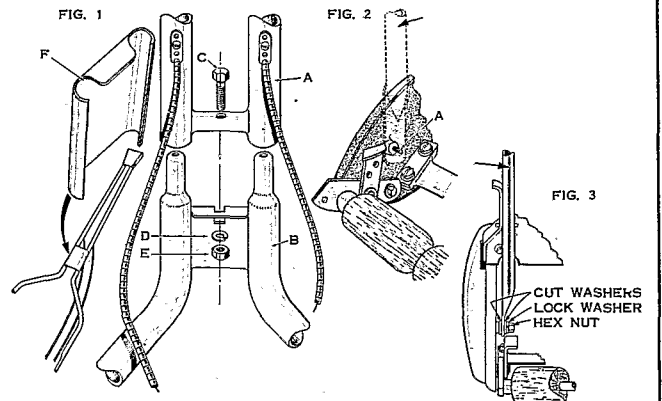
	WHEEL HOLE	ROLLER HOLE
1/4"	D	A
1/2"	D	B
3/4"	C	A
1"	C	B
1 1/4"	B	A
1 1/2"	B	B
1 3/4"	B	C
2"	A	B
2 1/4"	A	C
2 1/2"	A	D

INSTRUCTIONS

To assemble the handle on your sportlawn, first join the upper handle section "A" to the lower handle section "B". Then insert screw "C" as shown in Fig. 1 and fasten with lockwasher "D" and nut "E". Next install cover plate "F" over the splice with the flange covering the bolt head. This is best done by placing it on one side of handle and snapping it over the other.

After the handle sections have been joined together, first place a flat washer on the handle studs. "A" (See Fig. 2). Next place handle assembly, flatwasher, lockwasher and nut as shown in Fig. 3. Then tighten nut securely.

The clutch and throttle controls are installed in their proper places. They are assembled at the factory and packed in the carton in this manner for ease of assembly.



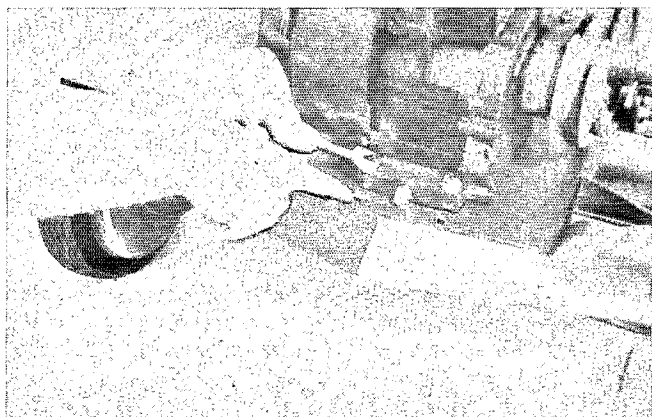


Fig. 4 If it is necessary to adjust the belt tension, loosen the four bolts that hold the engine to the platform, and slide it forward in the slotted holes (see Fig. 4). The belt should not be tightened any more than is necessary to prevent it from slipping when under load. Do not tighten the belt too tight as this will cause undue wear and cause your Sportlawn to creep when the clutch is disengaged. The clutch should be engaged when the belt is being tightened. To engage clutch when engine is not running, we recommend you do the following: First disconnect spark plug lead wire. Then push in clutch control and pull starter. You will hear a definite click when clutch engages. Then you are ready to adjust belt as outlined above.

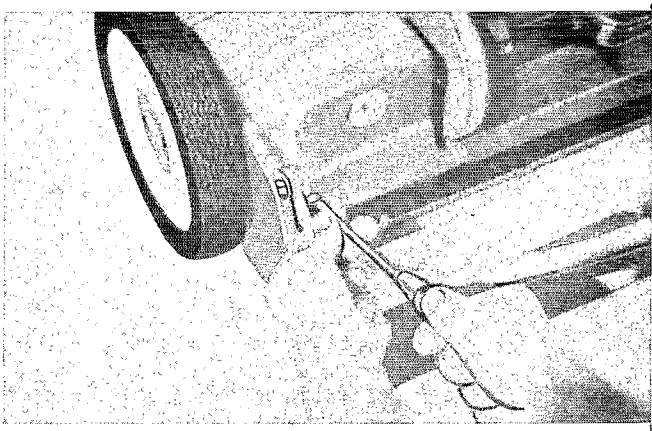


Fig. 5 The chain on the Sportlawn, after a few hours operation may have stretched and become too loose. To tighten it, remove metal housing cover as shown in Fig. 5.

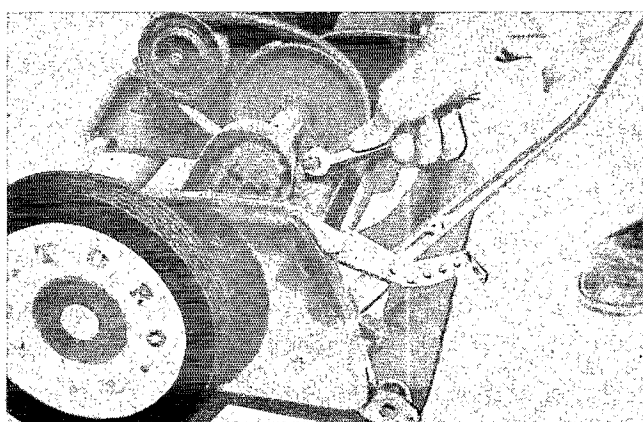


Fig. 6 Then loosen the four bolts that hold the countershaft in position (Fig. 6) and move the countershaft up by putting a broom handle or a similar stick to lift it as shown in Fig. 7.

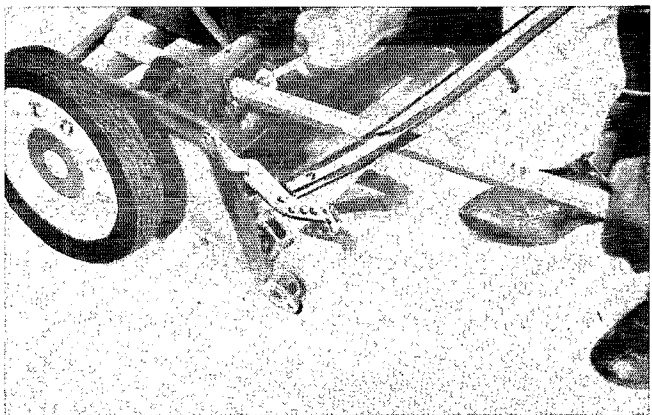


Fig. 7 While holding it up in this position, retighten the four countershaft bolts securely. Be sure you do not get the chain too tight as this will cause excessive wear.

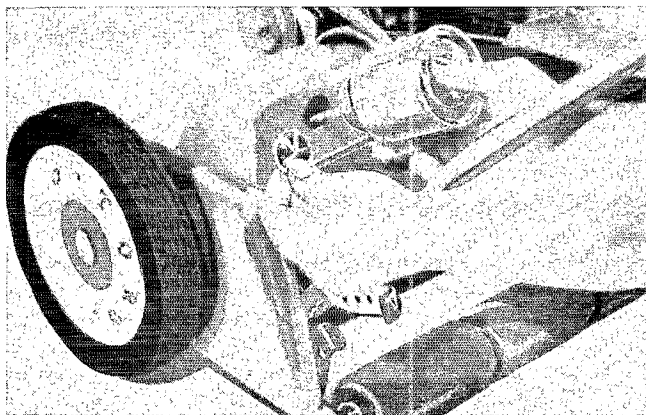


Fig. 8 Note that the countershaft can be lubricated by removing the small chromium plated circular cap so the oil hole in the countershaft can be reached by the oil can spout.

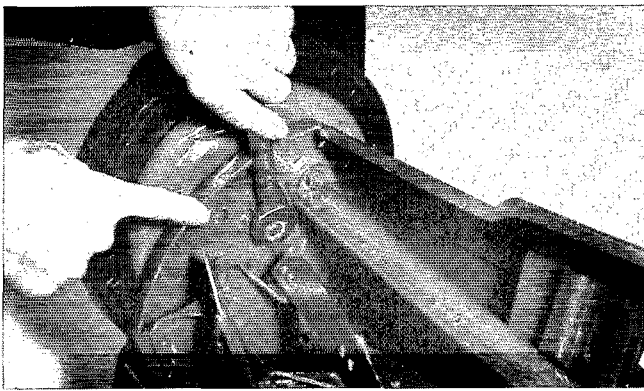


Fig. 9 Height of cut can be adjusted by raising or lowering rear roller and by changing the positioning of the wheels. First remove plug button, see table on various cutting heights on page 3. When changing wheel setting after you have removed the axle nut, do not pull axle bolt all the way out of wheel. Simply bring it back far enough so it can slide into the desired setting.

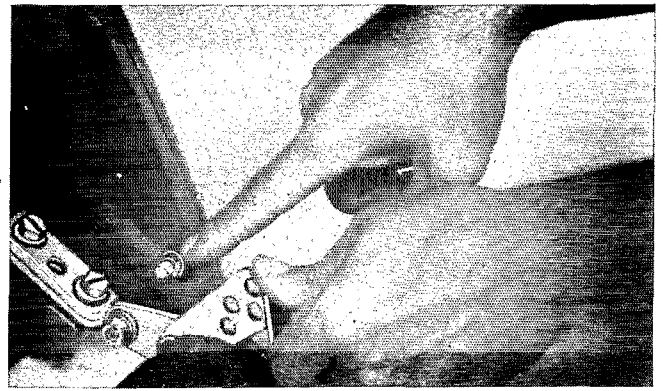


Fig. 10 Be sure the wheel setting and the roller bracket setting are in the relative holes on both sides. Then retighten wheel nuts and set roller bracket in pins on side plate. (See Fig. 10). The cutting height can be determined in inches by measuring the distance between the ground and the cutting edge of the bed knife.

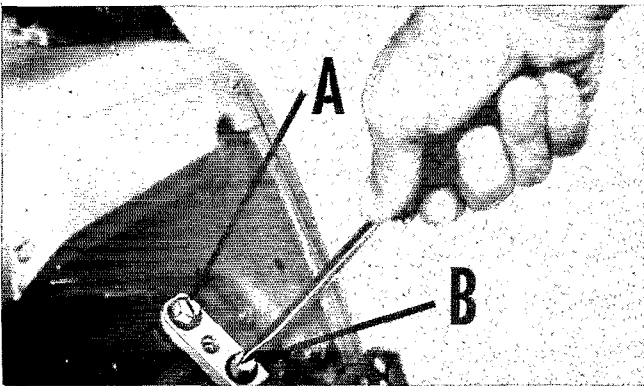


Fig. 11 Adjusting the bed knife is the most important adjustment on your Sportlawn implement. To set the bed knife up against the reel blades, loosen rear adjusting screw "B" (using a screw driver as shown) very slightly about 1/20th of a turn, then tighten front screw "A" in the same manner. Do this at each end of bed knife. Then slowly revolve reel to see if it is adjusted properly. Repeat or reverse above operation until bed knife bears lightly and smoothly against each blade and can cut paper for its full length.



Fig. 12 The purpose of the Allen Set Screw in the center of the knife bar is to raise or lower the center of the knife. Usually no adjustment is necessary. If the mower should leave a streak of uncut grass in the center of the unit, then the Allen Set Screw should be tightened to raise the center of the knife bar. Care should be exercised in making this adjustment. IN NO CASE SHOULD BED KNIFE BEAR HEAVILY AGAINST THE REEL.

SHARPENING INSTRUCTIONS

Raise the wheels off the ground by resting the mower on its rear roller.

Prepare a grinding compound of 1 oz. Silicon carbide (grit #120) and 1 oz. soap powder and water. Turn the reel backwards by rotating the wheel by hand.

Apply the compound with a paint brush.

After several minutes of grinding, tighten the bed knife slightly and repeat the grinding operation until you can cut paper with all blades for their full length.

Wash off all traces of the grinding compound.

CAUTION !

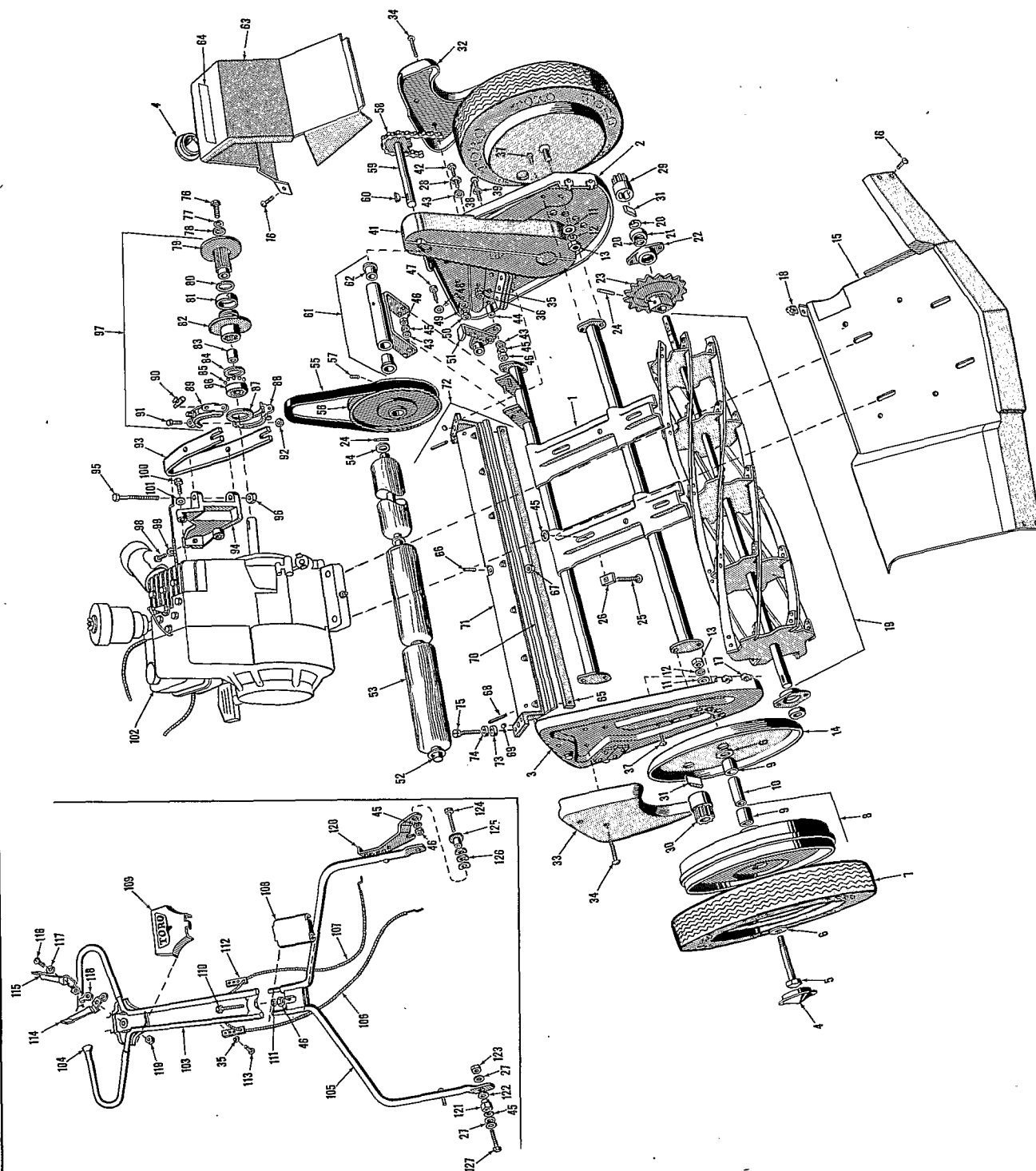
DO NOT REMOVE FOREIGN MATTER FROM CUTTING UNIT WITHOUT FIRST STOPPING THE ENGINE:



ORDERING INSTRUCTIONS

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.
6. Repair parts are available from your Toro distributor or dealer.



PARTS LIST

Ref. No.	Part No.	Description	No. Used	Ref. No.	Part No.	Description	No. Used
1	2-2900	Main Frame	1	66	32133-4	Set Screw	1
2	4-7661	Side Plate, Left	1	67	3296-20	Locknut	1
3	4-7662	Side Plate, Right	1	68	32121-12	Pin	2
4	2410-8	Plug Button	3	69	255-6	Ball, $\frac{1}{2}$ " Dia.	2
5	D-343	Bolt, Wheel Spindle	2	70	2-3160	Bed Knife	1
6	D-342	Washer	6	71	1-3659	Bed Bar Assy. Includes	
7	4-2580	Tire	2		Refs. #65, 66, & 67		1
8	1-3489	Wheel w/Bushings	2	72	1-3619	Bed Knife & Bar Assy.	1
9	256-32	Bushing	4	73	D-218	Lower Spherical Washer	4
10	H-104	Spindle, Wheel	2	74	D-219	Upper Spherical Washer	4
11	3256-25	Washer, 7/16" S.A.E.	2	75	PD-7	Adjusting Screw	4
12	3253-6	Lockwasher, 7/16" Reg.	2	76	329-6	Screw, $\frac{1}{4}$ " N.F. x 1"	1
13	3220-4	Nut, 7/16" N.F. Jam	2	77	3253-3	Lockwasher	1
14	2-3340	Wheel Cover	2	78	4-8620	Washer	1
15	2-2990	Platform	1	79	PH-100	Clutch Body Assy.	1
16	32104-27	Screw, #10 x 5/8" Self Tap	7	80	32120-30	Snap Ring	1
17	3290-171	Nut, Special	6	81	PH-10	Idler Bushing	1
18	3290-172	Nut, Special	1	82	PH-101	Sliding Flange	1
19	2-3690	Reel Assy.	1	83	PH-103	Inner Ball Race	1
20	32120-39	Snap Ring	2	84	PH-12	Check Washer	1
21	251-127	Bearing, Reel	2	85	255-1	Ball	15
22	2-2940	Bearing Holder	2	86	PH-8	Outer Ball Race	1
23	2-3350	Sprocket	1	87	PH-11	Thrust Washer	1
24	32121-16	Pin	3	88	PH-80	Slip Ring	1
25	3210-8	Screw, 5/16" x 1 $\frac{1}{2}$ " N.F.	4	89	PH-7B	Slip Ring	1
26	2-3630	Engine Mounting Slide	4	90	301-2	Oiler	1
27	3256-23	Washer, 5/16" SAE	10	91	3250-4	Screw, 8-32 x 5/8"	2
28	3253-3	Lockwasher	4	92	3296-1	Nut, 8-32 Elastic Stop	2
29	2-3121	Reel Pinion, Left	1	93	2-3540	Shift Fork	1
30	2-3122	Reel Pinion, Right	1	94	2-3550	Clutch Fork Mounting	1
31	H-40	Dog, Ratchet	2	95	3210-13	Screw, 5/16" N.F. x 3"	1
32	2-3331	Side Plate Cover, Left	1	96	3296-20	Nut, 5/16" N.F. Lock	1
33	2-3332	Side Plate Cover, Right	1	97	1-3539	Clutch Assembly	1
34	32143-6	Screw, 10-24 x 1 $\frac{1}{2}$ " Mach.	4	98	3251-2	Screw, 10-24 x $\frac{1}{2}$ "	1
35	3253-17	Lockwasher, #10 Reg.	6	99	3256-14	Washer, #10 SAE	1
36	3217-26	Nut, 10-24	4	100	3258-4	Screw, $\frac{1}{4}$ "-20 x 3/4"	2
37	32140-10	Screw	12	101	3253-3	Washer, $\frac{1}{4}$ " Reg.	2
38	32143-8	Screw, $\frac{1}{4}$ "-20 x 1-3/8" Mach.	1	102	221-90	Engine, B. & S. 6BS	1
39	3253-3	Lockwasher, $\frac{1}{4}$ " Reg.	1	103	1-3649	Upper Handle	1
41	4-8600	Chain Guard, Front	1	104	PD-25	Handle Plug	2
*	4-8590	Chain Guard, Rear	1	105	2-3460	Lower Handle	1
42	3210-7	Screw, 5/16" N.F. x 1 $\frac{1}{4}$ "	2	106	2-3510	Throttle Control Assembly	1
43	3256-23	Washer, 5/16" SAE	8	107	2-3520	Clutch Control Assembly	1
44	2-3320	Spacer	2	108	PD-13A	Cover Plate	1
45	3253-4	Lockwasher, 5/16" Reg.	10	109	PH-40B	Escutcheon Plate	1
46	3219-2	Nut, 5/16" N.F. Full	9	110	3210-9	Screw, 5/16" N.F. x 1 $\frac{1}{2}$ "	1
47	2-3580	Stud	2	111	3254-2	Lockwasher, 5/16" Int.	
48	3256-24	Washer, 3/8" SAE	4		Shakeproof		1
49	3253-21	Lockwasher, 3/8" Reg.	2	112	2-3500	Control Cable Clip	2
50	3219-3	Nut, 3/8" N.F.	2	113	3251-6	Screw, #10-24 x $\frac{1}{4}$ "	2
51	2-3271	Adjusting Arm, Left	1	114	PH-57A2	Throttle Control Lever	1
*	2-3272	Adjusting Arm, Right	1	115	PH-57A1	Clutch Control Lever	1
52	2-3260	Shaft, Roller	1	116	32122-23	Screw, 10-32 x $\frac{1}{4}$ "	1
53	2-3250	Roller	3	117	PH-66	Control Pivot Washer	1
54	3256-33	Washer	4	118	PH-52	Friction Washer	1
55	271-43	Belt	1	119	3296-27	Nut, 10-32	1
56	PD-364	Pulley	1	120	2-3381	Adj. Arm, Left	1
57	3245-1	Set Screw	1	*	2-3382	Adj. Arm, Right	1
58	2-3240	Chain	1	121	2-3490	Handle Pivot Nut	2
*	2710-1	Connecting Link, Chain	1	122	3256-25	Washer, 7/16" SAE	2
59	2-3210	Countershaft Assy.	1	123	3220-2	Nut, 5/16" N.F. Jam	2
60	3257-5	Key	1	124	3210-4	Screw, 5/16" N.F. x 7/8"	2
61	1-3609	Countershaft Housing w/Bushings	1	125	2-3530	Spacer	2
62	256-34	Bushing	2	126	3290-213	Spring Washer	6
63	2-3030	Cover, Countershaft	1	127	3210-6	Screw, 5/16" N.F. x 1-1/8"	2
64	2-3610	Decal	1	*	4-8550	Grass Catcher Hook	2
65	2-3150	Adjusting Bar	1	*	329-3	Screw, Grass Catcher Hook	2
				*	3219-1	Nut, Grass Catcher Hook	2
				*	3256-22	Washer	2

*Not Illustrated

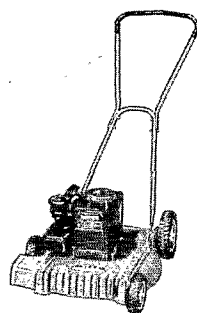
INSIST ON GENUINE TORO PARTS

TORO

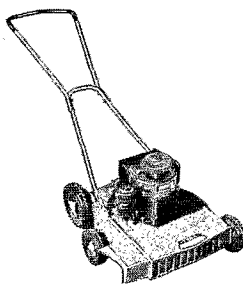
POWER MOWERS

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

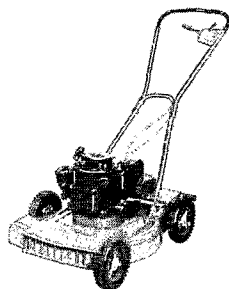
helped make Toro the world's largest manufacturer of power mowers — is to provide the customer with complete local service and parts. This Toro has done through an extensive chain of service dealers, factory-trained to give you the most careful, competent care for your Toro work-saver.



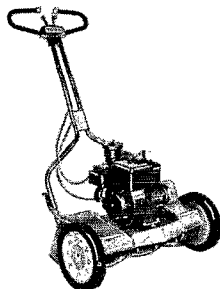
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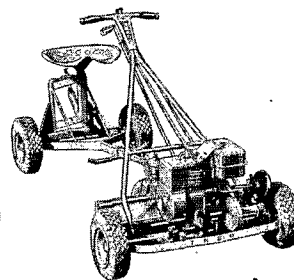
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ROTARY



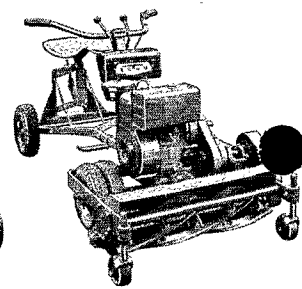
20" SELF-PROPELLED
ROTARY



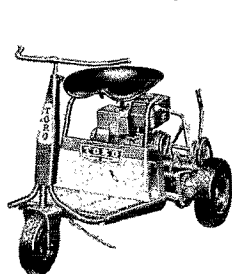
20" SPORTLAWN



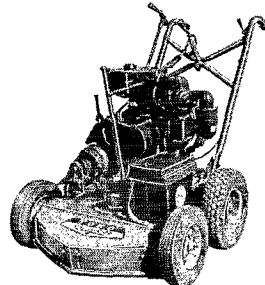
27" STARLAWN



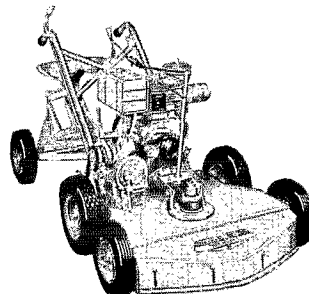
PARK SPECIAL



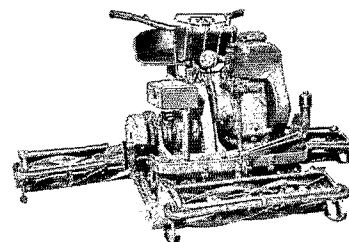
27" PONY



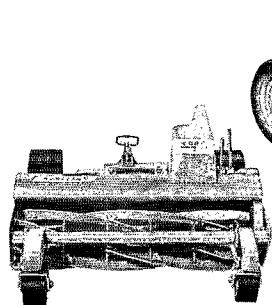
24" SELF-PROPELLED ROTARY



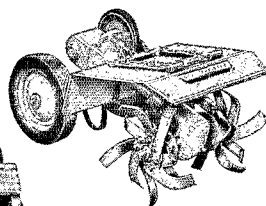
31" GRASSKING



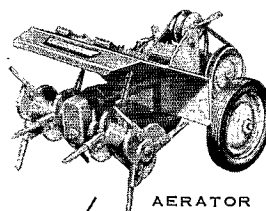
76" PROFESSIONAL



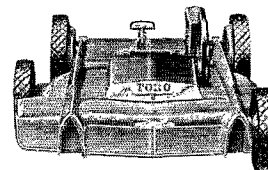
25" HOMELAWN



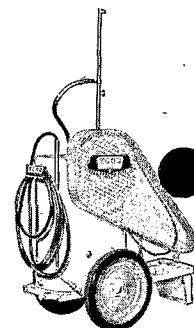
TILLER



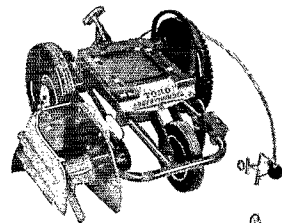
AERATOR



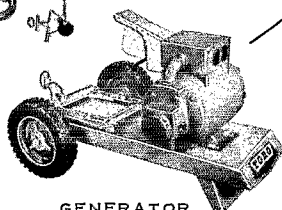
22" ROTARY



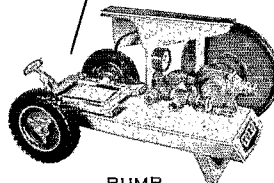
SPRAYER



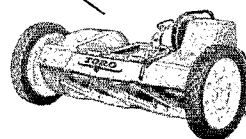
EDGER-TRIMMER



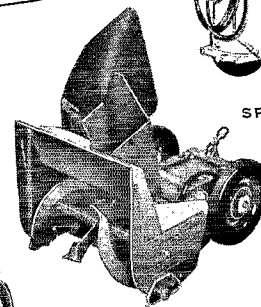
GENERATOR



PUMP



20" SPORTLAWN



17" SNOWHOUND

**TORO
POWER HANDLE
IMPLEMENTS**

DISTRIBUTED BY

LITHO IN U.S.A.