1955

TORO

OWNER MANUAL AND PARTS LIST



18" and 21"

SERIES 1

SPORT LAWN

1955

SERIAL NO'S.

18" STARTING WITH 2PD—8—10001 & UP

21" STARTING WITH 2PD—1—20001 & UP

TORO MANUFACTURING CORP., MINNEAPOLIS, MINN.

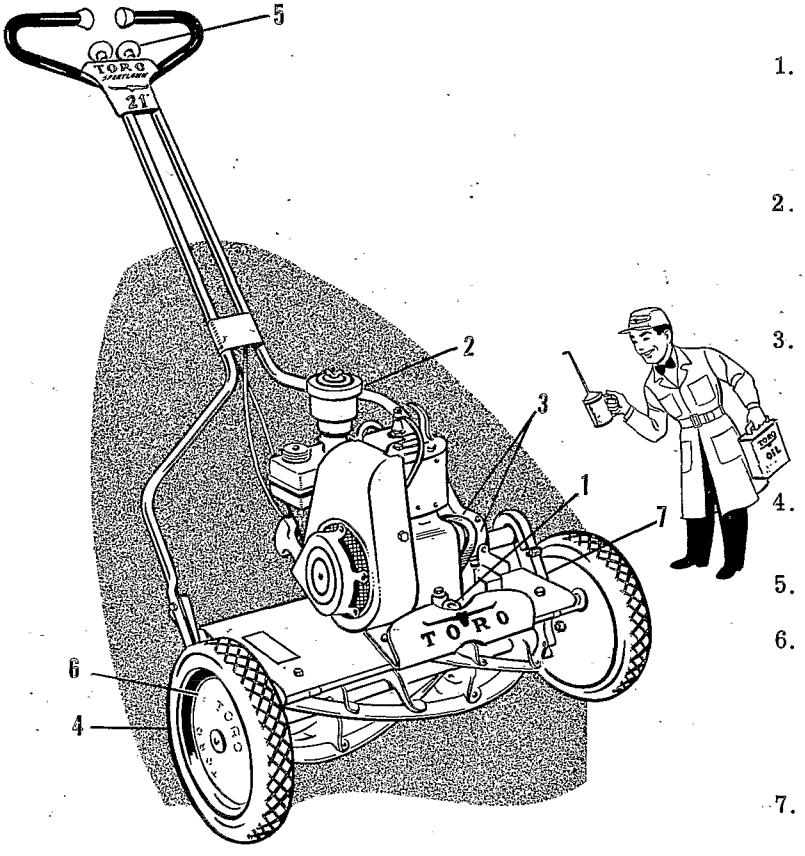
To The Toro Owner

This Owner Manual has been especially prepared for your information and guidance in the operation and care of your new Toro mower. Information on care and operation of the engine is contained in a separate manual furnished with the engine.

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

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

LUBRICATION POINTS



1. ENGINE: Use good grade S. A. E. 20 Motor Oil, change every 25 operating hours, more often under dusty conditions. Study engine manual for more explicit instructions.
2. AIR CLEANER TO LEVEL MARK: S. A. E. 20 Motor Oil every 25 hours, more often under dusty conditions. Study engine manual for more explicit instructions.
3. COUNTERSHAFT AND CLUTCH: Lubricating Oil, oil frequently. IMPORTANT! Put four or five drops of oil in oil cup on clutch slip ring. Do this each time mower is used. Never allow clutch to run oil dry. See reference 98, page 5.
4. ROLLER BRACKETS: Lubricating oil, oil frequently. See reference 37 & 42, page 5.
5. CONTROL KNOBS: Lubricating oil, oil sparingly.
6. PINIONS, RING GEAR AND OILITE BUSHING: At least once a year remove the wheels, repack the ratchet housing and gear teeth with gun grease. At the same time lubricate Oilite Bushing on spindle with good grade lubricating oil.
7. SIDE PLATE OIL HOLES: Lubricating oil, do this each time mower is used.

IMPORTANT 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.

OPERATING INSTRUCTIONS

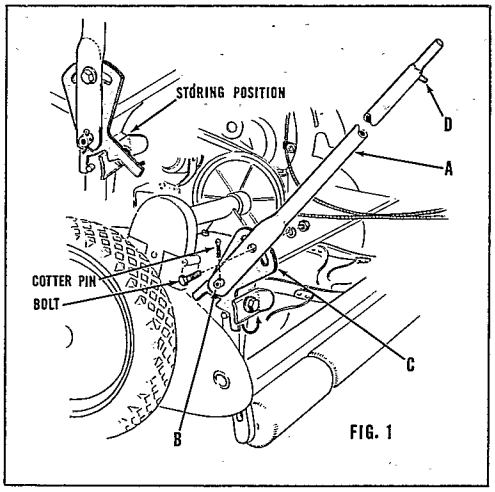


FIG. 1

ASSEMBLY INSTRUCTION

To prepare your new Sport Lawn for mowing, attach the lower handle section "A" to the mower frame by snapping it over the handle studs "B" as shown in Figure 1. Then bolt this section to the handle stop brackets "C" with the two short bolts you will find in the plastic bag attached to the mower. Be sure handle brace "D" at the upper end of this handle section "A" has the flange facing down. Then insert cotter keys in holes provided in handle studs "B." Note the storing position of the handle in Figure 1 showing the location of the handle stop bracket (Ref. 111) and the handle stop lever (Ref. 118) for this purpose. SCHEMATIC DRAWING ON PAGE 5 SHOWS THE PROPER RELATIONSHIP OF THE HANDLE PARTS.

After the lower handle section "A" has been mounted on your Sport Lawn, you are ready to connect the two handle sections together. First insert bolt "F" in the lower handle section "A," then guide upper handle section "E" into place on the lower half and fasten with the 5/16" nut and lockwasher provided in the plastic bag. When this has been done, put on cover plate "G" over the splice with the flange covering the nut and lockwasher. This is best done by putting the cover over one side and snapping it over the other. Figure 2 also shows the throttle and clutch controls "H" and "J" connected in their proper places. They are installed at the factory and come packed in the carton in this manner.

Tighten bolts, nuts and screws. It will pay you to go over your Sport Lawn occasionally, particularly when new. Do not tighten the two bed knife screws (Ref. 33) at each end of the bed bar except when adjusting.

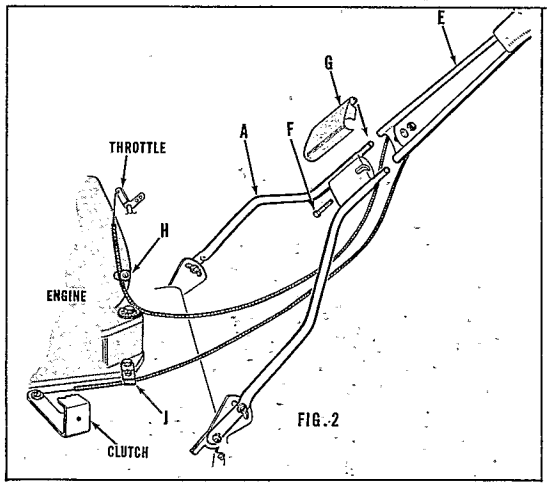
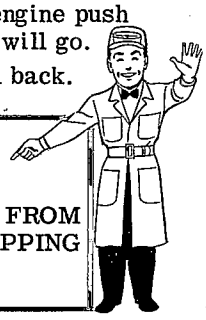


FIG. 2

STARTING THE ENGINE

1. Fill the gas tank with regular gasoline. (Do not mix oil with the gasoline.)
2. See that the oil in crankcase of engine is up to filler plug. (Refer to the engine manual which is furnished with the machine.)
3. Open throttle lever about half way. Make sure than clutch is disengaged.
4. Wind starter rope around the engine starting pulley, close the carburetor choke lever and give starting rope a quick pull. When engine starts, open choke lever gradually. If trouble is experienced in starting the engine, refer to the engine manual furnished with each machine.
5. To stop the engine, close throttle and press grounding button on top of engine.

   TO MOVE FORWARD: After starting engine push clutch control knob forward as far as it will go.
6. TO STOP: Pull clutch control knob full back.



Caution

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

TIPS ON LAWN MOWING

How you cut your lawn has much to do with its health and appearance. Here are some fundamental suggestions that may help you.

DON'T CUT TOO SHORT! The green color in grass is "chlorophyll," a substance which transforms sunshine into growing energy. Short cutting robs the grass of this vital substance. A height from 1 to 2 inches is best for ordinary lawns, while shaded areas should be clipped to approximately 2 inches. Longer heights block out sunlight from new growth and cause a thin turf.

CUT HIGH DURING HOT WEATHER and, if your lawn is too thick, cut it short in cool weather. Short cutting is also recommended during reseeding and for killing out crabgrass or weeds.

WHAT ABOUT CLIPPINGS? Clippings help by retarding evaporation and also by returning food to the soil. However, accumulated clippings can smother out new growth, so watch out for matting.

HOW TO CUT TERRACES. Cut up and down hill when mowing the crown. Also cut high to help avoid erosion and evaporation.

SERVICE INSTRUCTIONS

CHAIN ADJUSTMENT

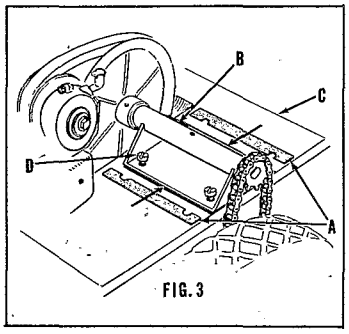


FIG. 3

The chain (Ref. 62, page 5) may be expected to loosen at first as the high spots are worn off. To tighten insert shims "A" between countershaft housing "B" and platform "C." This is easily done by loosening the four screws "D" holding the countershaft housing to the platform.

There should be a slight amount of slack in the chain when it is properly adjusted. Be sure you do not get it too tight. See Figure 3 for this adjustment.

ADJUSTING CUTTING HEIGHT

Your Toro Sport Lawn's height of cut can be adjusted by raising or lowering the rear roller. This is a very simple adjustment to make and requires only a few minutes.

1. Place your Sport Lawn on a hard level surface, such as a sidewalk or a cement driveway.

2. Loosen the carriage bolt nuts "A" at each end of the roller (Fig. 5).

3. Lower the roller to cut the grass higher or raise it to cut the grass shorter.

4. Be sure roller is adjusted to the same height on both sides, roller brackets "B" have gauge marks for this purpose. Then tighten the carriage bolt nuts firmly (Fig. 6 "E"). To determine exact cutting height, simply measure the distance between the ground and the cutting surface on the bed knife. A setting between one and two inches is recommended during hot weather. If you have a "Creeping Bent" lawn, consult your local Toro Distributor.

BELT ADJUSTMENT

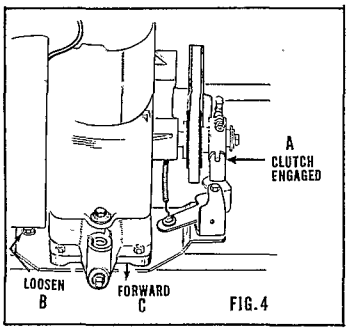


FIG. 4

It will be necessary to tighten the belt when the chain is adjusted. To do this, loosen bolts "B" that attach the motor to the platform and slide it forward "C" in the slotted holes. The belt should not be tightened any more than is necessary to prevent it from slipping when under load. Tightening the belt too much will cause undue wear on the belt and may also make your Sport Lawn "creep" when the clutch is disengaged. NOTE: The clutch "A" should be engaged when the belt is being tightened. To engage the clutch when the engine is not running we recommend you follow these instructions: First disconnect spark plug lead wire. Then push in clutch control and pull on starter. You will hear a definite click when the clutch engages, then you are ready to adjust belt as shown in figure 4.

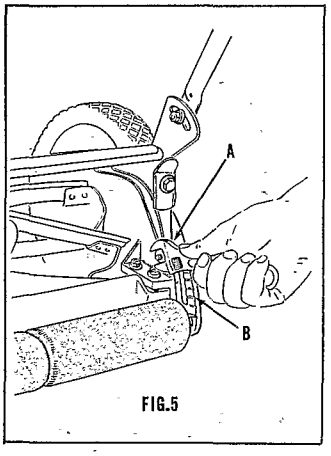


FIG. 5

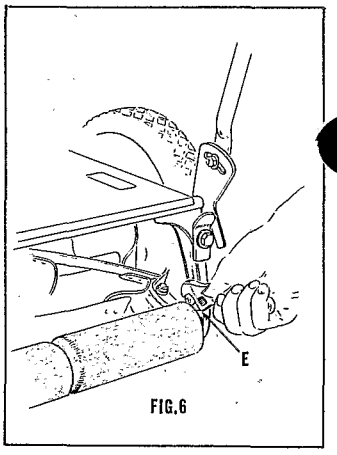


FIG. 6

ADJUSTING BED KNIFE TO REEL

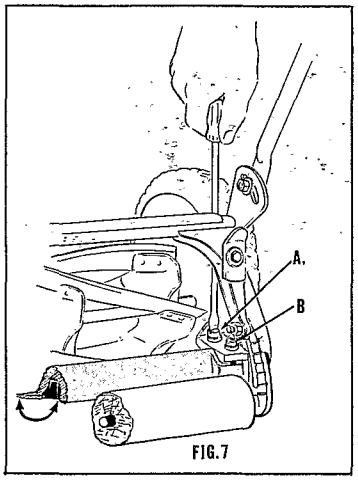


FIG. 7

This is the most important adjustment on your Sport Lawn mower. It must be done with great care to insure ease of cutting and maximum service from the cutting parts.

1. To move the bed knife up against the reel blades, loosen the rear adjusting screw "B" and tighten the front adjusting screw "A."
2. Make this adjustment carefully at both ends of the bed knife, moving each screw only slightly (about 1/20th of a turn).
3. Tighten the rear screws ("B") firmly and revolve the reel. Repeat or reverse this adjustment procedure until the bed knife is in correct position.
4. Each blade should make very light contact all along the bed knife and cut paper for its full length.

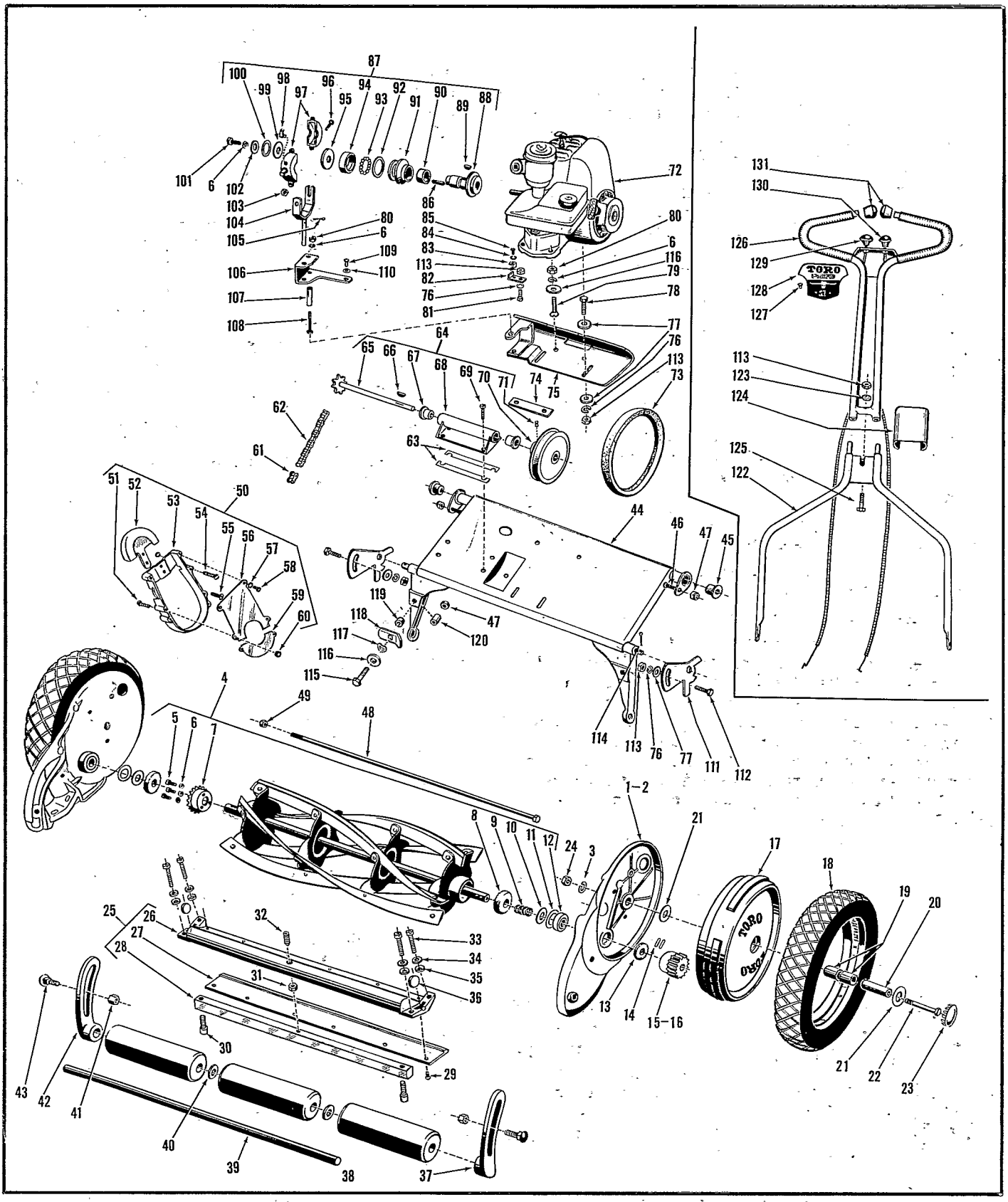
CAUTION: IN NO CASE SHOULD BED KNIFE BEAR HEAVILY AGAINST THE REVOLVING REEL.

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.


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PARTS LIST

Ref. No.	Part No.	Description	No. Used 18"	No. Used 21"
1	PDK-11	Side Plate Assembly, Right consisting of side plate & outer Bearing Race	1	1
2	PDK-12	Side Plate Assembly, Left consisting of side plate & outer Bearing Race	1	
2	PDK-12A	Side Plate Assembly, Left consisting of side plate & outer Bearing Race		1
3	3253-6	Lockwasher, 7/16" Reg.	2	2
4	PD-K-16A	Reel Assembly, consisting of blades, spiders, shaft, brg. cover, sprocket, thrust washers, dust seals, take up spring, inner brg. races, felt washers & steel balls	1	
4	PDK-116A	Reel Assembly, consisting of blades, spiders, shaft, brg. cover, sprocket, thrust washers, dust seals, take up spring, inner bearing races, felt washers & steel balls		1
5	3258-6	Screw, $\frac{1}{4}$" N. F. x 3/8" Rd. Hd.	3	3
6	3253-3	Lockwasher, $\frac{1}{4}$" Reg.	3	3
7	PD75A	Reel Sprocket	1	1
*7A	PD23	Spacer	1	
8	D-225	Felt Washer, inside	2	2
9	D-26	Spring, Brg. take up	1	1
10	D-333	Thrust Washer	2	2
11	D-334	Seal	2	2
12	251-30	Bearing, Reel	2	2
13	YM-104	Felt Washer, outer	2	2
14	D-228	Dog, Ratchet	4	4
15	D-327A-2	Pinion, Reel Drive, Left	1	1
16	D-327A-1	Pinion, Reel Drive, Rt.	1	1
17	PDK-217	Wheel Assembly consisting of wheel & bushings	2	
17	PDK-240	Wheel Assembly consisting of wheel & bushings		2
18	PD-340	Tire	2	
18	PD-440A	Tire		2
19	256-32	Bushing	4	4
20	H-104	Spindle, Wheel	1	1
21	D-342	Washer, Wheel Spindle	4	4
22	D-343	Bolt, Wheel Spindle	2	2
23	2410-4	Plug Button	2	2
24	3220-4	Nut, 7/16" N. F. Jam, Plated	2	2
25	PD-K-13A	Bed Knife Bar Assembly consisting of bed knife, bed bar and rivets	1	
25	PD-K-115B	Bed Knife Bar Assembly consisting of bed knife, bed bar, adjustable bar & rivets		1
26	PD-315B	Bed Bar	1	
26	PDK-134A	Bed Bar		1

*Not Illustrated

Ref. No.	Part No.	Description	No. Used 18"	No. Used 21"
27	PD-316	Bed Knife	1	
27	PD-416	Bed Knife		1
28	PD-418	Adjustable Bar		1
29	3262-10	Rivet, Bed Knife	6	
29	3262-2	Rivet, Bed Knife		7
30	3274-9	Screw, $\frac{1}{4}$ N.C. x 1" Socket Head		2
31	3296-16	Nut, $\frac{1}{4}$" Elastic Stop, thin		1
32	3245-9	Set Screw, $\frac{1}{4}$" N.C. x $\frac{1}{2}$" Socket		1
33	PD-7	Adjusting Screw, bed bar	4	4
34	D-219	Washer, upper spherical	4	4
35	D-218	Washer, lower spherical	4	4
36	D-217	Pivot, Bed Bar	2	2
37	PD330A-2	Roller Bracket, right	1	1
38	PD-398	Roller Section	3	
38	PD-498	Roller Section		3
39	PD-399	Roller Shaft	1	
39	PD-499	Roller Shaft		1
40	3256-6	Washer, $\frac{1}{2}$" cut	2	2
41	PD-9	Nut	2	2
42	PD330A-1	Roller Bracket, left	1	1
43	3230-6	Bolt, 5/16" N.C. x 2" carriage	2	2
44	PD-302D	Motor Platform	1	
44	PD-402C	Motor Platform		1
45	D-211	Spacer Tube End	2	2
46	3258-21	Screw, 5/16" N. F. x $\frac{3}{4}$"	2	2
47	3296-4	Nut, 5/16" Elastic Stop	2	2
48	PD-312	Tie Rod	1	
48	PD-412	Tie Rod		1
49	3296-6	Nut, 3/8" N. F. Elastic Stop	1	1
50	PDK-106	Chain Guard Assembly, Comp.		1
51	32108-53	Screw, 10-24 x 1-5/16"		1
52	PD-452	Chain Guard Top		1
53	PD-451	Chain Guard Flange		1
54	3251-12	Screw, 10-24 x 1"		1
55	3251-13	Screw, 10-24 x $1\frac{1}{8}$"		1
56	PD-453	Chain Guard Upper cover		1
57	3254-1	Lockwasher, #10 Shakeproof		6
58	3251-2	Screw, 10-24 x $\frac{1}{2}$		6
59	PD-454	Chain Guard Lower Cover		1
60	3296-12	Nut, Elastic Stop, thin		3
61	2710-21	Link, connecting	1	1
62	PD-369	Chain	1	1
63	PD-327-2	Shim	4	
63	PD-427	Shim		4
64	PDK-22	Countershaft Assembly	1	
64	PDK-122	Countershaft Assembly		1
65	PD-368	Countershaft & sprocket	1	
65	PD-468	Countershaft & sprocket		1
66	3257-5	Key, #9 Woodruff	1	1
67	256-34	Bushing	2	2
68	PDK-23	Countershaft Housing	1	
68	PDK-123	Countershaft Housing		1
69	32113-18	Screw, $\frac{1}{4}$" N.F. x 5/8"	4	4
70	PD-364	Pulley	1	1
71	3245-1	Set Screw	1	1
72	221-60	Engine, Briggs & Stratton 5S	1	

PARTS LIST

Ref. No.	Part No.	Description	No. Used 18"	No. Used 21"
72	221-48	Engine, Briggs & Stratton 6S		1
73	271-17	"V" Belt	1	1
74	PD-318	Shim	1	1
75	PD-325	Clutch Mounting Plate	1	
75	PD-425	Oil Drain Guard		1
76	3253-4	Lockwasher 5/16" Reg.	4	4
77	3256-23	Washer, 5/16" Cut	6	6
78	3210-2	Screw, 5/16" N. F. x 5/8"	2	2
79	3289-8	Screw, $\frac{1}{4}$" N. F. x 1" Flat Head	2	2
80	3219-1	Nut, $\frac{1}{4}$" N. F. Full	2	2
81	3210-7	Screw, 5/16" N. F. x $1\frac{1}{4}$"	2	2
82	E-132	Clip	1	1
83	PL-127	Clip	1	1
84	3253-12	Lockwasher, #10 Reg.	1	1
85	3251-2	Screw, 10-24 x $\frac{1}{2}$" mach.	1	1
86	PD-319	Key, Square, $\frac{1}{8}$" x $\frac{1}{8}$" x 1"	1	
86	PD-419	Key, Square, 3/16" x 3/16" x 1"		1
87	PDK-28	Clutch Assembly	1	
87	PDK-128	Clutch Assembly		1
88	PD-346A	Clutch Body Assembly	1	
88	PD-446A	Clutch Body Assembly		1
89	3257-1	Key, #3 Woodruff	1	1
90	PD-350	Idler Bushing	1	1
91	PD-349	Sliding Flange	1	1
92	PD-352	Thrust Washer	1	1
93	255-5	Steel Balls	18	18
94	PD-351	Shift Collar	1	1
95	PD-354	Washer, Slip Ring	1	1
96	3249-3	Screw, 6-32 x $\frac{1}{2}$" N. C.	2	2
97	PD-355	Slip Ring	2	2
98	301-2	Oil Cup	1	1
99	PD-353	Check Washer	1	1
100	32120-14	Snap Ring	1	1
101	329-6	Screw, $\frac{1}{4}$" N. F. x 1"	1	
101	329-3	Screw, $\frac{1}{4}$" N. F. x 5/8"		1
102	CU-285	Washer	1	1
103	3296-9	Nut, 6-32 N. C. Elastic Stop	2	2
104	PD-356A	Shift Fork Assembly	1	1
105	3272-1	Cotter Key, 1/16" x $\frac{1}{2}$"	1	1
106	E-136-1	Bracket, Shift Fork	1	
106	E-136-2	Bracket, Shift Fork		1
107	E-137-1	Spacer, Bracket	1	
107	E-137-2	Spacer, Bracket		1
108	329-15	Screw, $\frac{1}{4}$" N. F. x $2\frac{1}{2}$" Lg.	1	1
109	3251-6	Screw, 10-24 x $\frac{1}{4}$" N. C.	1	1
110	3256-14	Washer, #10	1	1
111	PD-17	Bracket, Handle Stop	2	2
112	3210-3	Screw, 5/16" N. F. x $\frac{3}{4}$"	2	2
113	3219-2	Nut, 5/16" N. F. Full	5	5
114	3272-11	Cotter Key, $\frac{1}{8}$" x 1"	2	2
115	3210-9	Screw, 5/16" x 1-3/8" N. F.	2	2
116	3256-2	Washer, $\frac{1}{4}$" cut	4	4
117	3290-213	Spring Washer, 7/16"	2	2
118	PD-19	Lever, Handle Stop	2	2
119	WA-102	Spacer	2	2
120	PD-31	Spacer	2	2
122	PD-85A	Lower Handle	1	
122	PD-185A	Lower Handle		1
123	3254-2	Lockwasher, 5/16" Shakeproof	1	1
124	PD-13A	Cover Plate	1	1
125	3210-9	Screw, 5/16" N. F. x $1\frac{3}{4}$"	1	1
126	PDK-255	Upper Handle Assy. consisting of upper handle, plug buttons & Plastic Grip	1	
126	PDK-250	Upper Handle Assy. consisting of upper handle, plug buttons & Plastic Grip		1
127	3259-1	Screw, Drive #0 x 3/16"	4	4
128	PD-391A-2	Handle Name Plate	1	
128	PD-391A-1	Handle Name Plate		1
129	PD-395C	Throttle Control, including casing, wire & knob	1	
130	PD-394D	Clutch Control, including casing, wire & knob		1
131	PD-25	Handle Plug	2	2

WARRANTY

Every piece of equipment is in perfect working condition before leaving the factory and will, when properly operated, perform the work for which it is recommended.

Should any parts, within three months from date of purchase, prove defective, new parts will be furnished, free of charge, f. o. b. factory, if the broken parts are returned to us for inspection.

We reserve the right to make improvements and changes in machines shown in the catalog without notice.

INSIST ON GENUINE TORO PARTS

For many years, local service on a national basis has been the chief objective of the Toro organization.

The local Toro Distributor can provide efficient and prompt service backed by genuine Toro repair parts.

Protect and insure the long efficient life built into a Toro product by using only genuine Toro parts — engineered to fit and wear exactly like the original part.

Your nearby distributor will gladly assist you with mowing problems, give free demonstrations and expert overhaul service.



TORO

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TORO Whirlwind POWER MOWERS

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