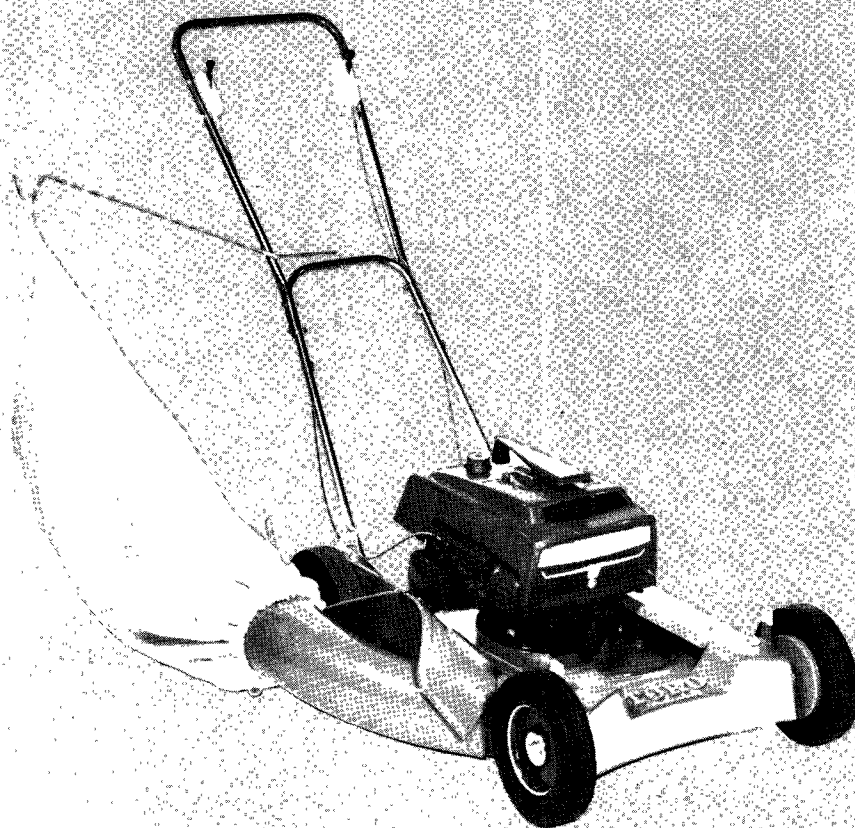


TORO

1960
REFERENCE
DRAWING
AND PARTS
LIST



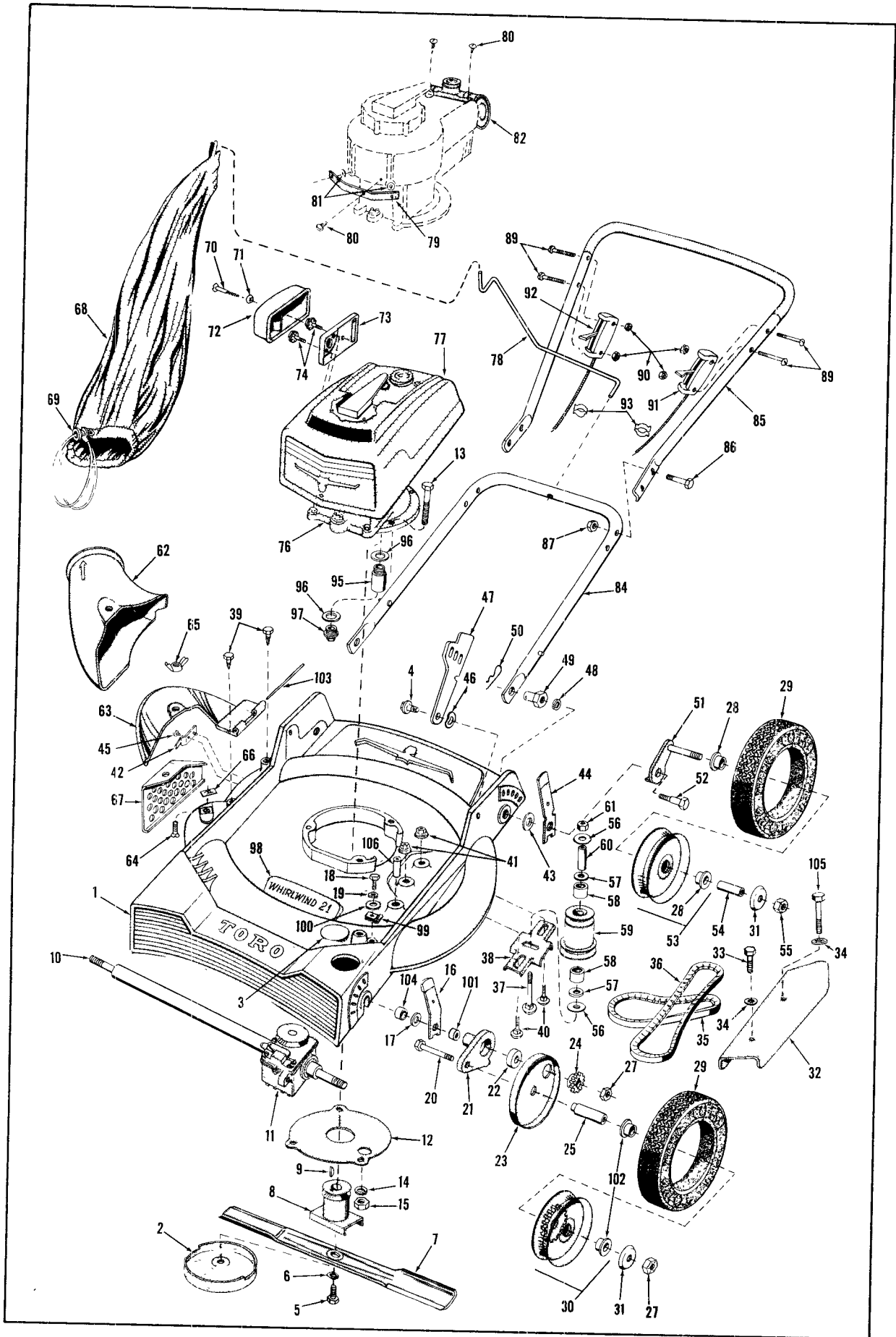
TORO—21" WHIRLWIND S.P.

SERIAL NOS. 20110-101 AND UP

Price 25 cents



MOWER DRAWING



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PATENT PENDING

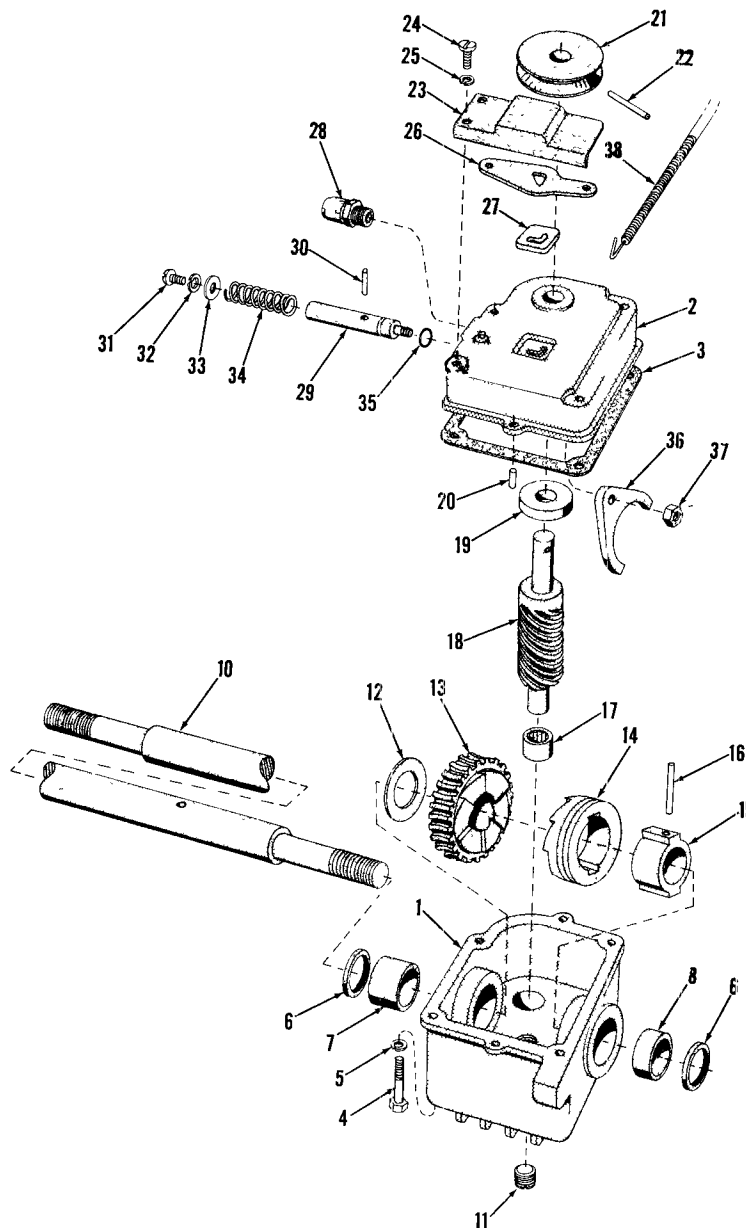
PARTS LIST

Ref. No.	Part No.	Description	No. Used	Ref. No.	Part No.	Description	No. Used
1	3-0673	Main Frame	1	50	3290-255	Hairpin Cotter	2
2	3-1175	Cup	1	51	3-0641	Pivot Arm, Left Rear	1
3	2410-8	Inspection Plug	1	*	3-0654	Pivot Arm, Right Rear	1
4	3-1846	Screw, Shoulder	2	52	3-0655	Pivot Screw	2
5	3-1347	Screw, Cutter Bar	1	53	4-2670	Rear Wheel w/Bush.	2
6	3253-6	Lockwasher, 7/16" Reg.	1	54	2-1120	Spindle, Rear Wheel	2
7	3-0663	Cutter Bar	1	55	32146-9	Nut	2
8	3-0755	Hub, Cutter Bar	1	56	3-0750	Washer	2
9	3257-3	Key	1	57	253-85	Oil Seal	2
10	3-0720	Drive Shaft	1	58	252-50	Bearing	2
11	1-7529	Gear Case Assy., Incl. Ref. 10	1	59	3-0747	Idler Pulley	1
12	3-0758	Grass Guard	1	60	3-0748	Spindle	1
13	3210-22	Screw, 5/16"N. F. x 2-7/8"	3	61	3296-6	Nut, 3/8"N. F. Elastic Stop	1
14	3253-4	Lockwasher, 5/16" Reg.	3	62	3-1030	Bag Attachment Assy.	1
15	3219-2	Nut, 5/16"N. F. Full	3	63	3-1027	Deflector Assy.	1
16	3-0768	Arm Assy., Front Wheel	2	64	32108-21	Screw, 5/16"-18 Flat Head Mach.	1
17	3-0737	Washer	2	65	3-1476	Wing Nut	1
18	32104-44	Screw, Self Tap	1	66	3290-184	Speed Nut	1
19	3255-7	Lockwasher, External	1	67	3-0680	Leaf Mulcher	1
20	3211-11	Wheel Bolt, 3/8" N. F. x 2 1/2"	2	68	3-0688	Bag	1
21	3-0735	Pivot Arm, Left	1	69	3-0987	Bag Keeper	1
*	3-0736	Pivot Arm, Right	1	70	32104-48	Screw, Self Tap	1
22	251-145	Bearing	2	71	3255-14	Lockwasher, 1/4"	1
23	3-0740	Wheel Cover	2	72	3-1635	Muffler, Free Side	1
24	3-0738	Gear	2	73	3-1636	Muffler, Engine Side	1
25	3-0741	Spindle	2	74	32140-17	Screw, Sems	2
27	32146-9	Nut	4	76	221-182	Engine	1
28	4-4550	Bushing	4	77	3-1925	Shroud, Engine	1
29	4-2600	Tire	4	78	3-0690	Hanger, Bag	1
30	3-0742	Front Wheel Assy., w/Bushings	2	79	3-1825	Bracket, Front Shroud	1
31	2-6710	Hub Cap	4	80	32104-51	Screw, Self Tap	3
32	3-1031	Belt Guard	1	81	3-1034	Washer, Blower Housing	2
33	32104-17	Screw, 1/4"-20 x 1 1/2"	2	82	3-1824	Tank, Shroud Bracket	1
34	3254-8	Lockwasher, 1/4" Shakeproof	2	84	3-0700	Handle Assy., Lower	1
35	3-1183	Belt, Cutter Bar	1	85	1-7559	Handle Assy., Upper	1
36	3-1182	Belt, Traction	1	86	329-7	Screw, 1/4"N. F. x 1 1/4"	4
37	3-0754	Special Bolt	1	87	32146-1	Nut, 1/4"N. F. Nylock	4
38	3-0751	Mounting Bracket	1	89	3251-10	Screw, 10-24 x 1 3/4"	4
39	32104-32	Screw, Self Tap	2	90	3296-2	Nut, 10-24 Elastic Stop	4
40	3230-16	Bolt, Carriage	2	91	3-1015	Clutch Control Assy.	1
41	3290-187	Nut, Lock	2	92	3-2008	Throttle Control Assy.	1
42	3-1538	Bracket, Bagger	1	93	WA-85	Clip	2
43	3-0653	Pivot Washer	2	95	3-0761	Extension, Oil Drain	1
44	3-0651	Arm Assy., Rear Wheel	2	**96	27245	Gasket, Oil Drain	2
45	3295-13	Rivet	2	**97	27244	Oil Drain	1
46	3290-218	Washer, Spring	2	98	3-1048	Decal	1
47	3-0664	Handle Latch	2	99	218-182	Clip, Conduit	1
48	3253-4	Lockwasher, 5/16" Reg.	4	100	3256-22	Washer	1
49	3-0657	Nut, Handle Pivot	2	101	256-1	Bushing	2
				102	3-1506	Bushing, Front Wheel	4
				103	3-1176	Hinge Pin	1
				104	3-1477	Sleeve	2
				105	3-1552	Special Screw	1
				106	3-1550	Spacer	1

*Not Illustrated

**Obtain From Lauson Dealer

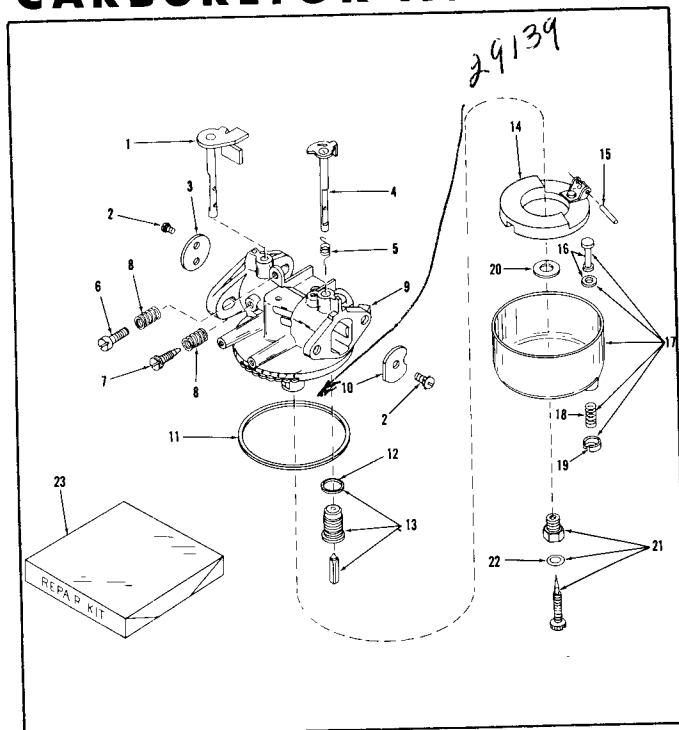
DRIVE CASE ASSEMBLY



Ref. No.	Part No.	Description	No. Used
1	3-0717	Gear Case	1
2	3-0725	Cover, Gear Case	1
3	3-0734	Gasket	1
4	321-18	Screw, $\frac{1}{4}$ " N.C. x $2\frac{1}{4}$ "	4
5	3253-3	Lockwasher, $\frac{1}{4}$ " Reg.	4
6	253-86	Oil Seal	2
7	256-109	Bearing	1
8	256-110	Bearing	1
10	3-0720	Shaft, Drive	1
11	285-10	Pipe Plug	1
12	3-0724	Washer, Thrust	1
13	3-0723	Worm Gear	1
14	3-0722	Clutch Jaw	1
15	3-0721	Sleeve	1
16	32121-40	Pin	1
17	252-51	Bearing	1
18	3-0726	Worm Shaft	1
19	251-144	Bearing	1
20	32121-1	Pin	2

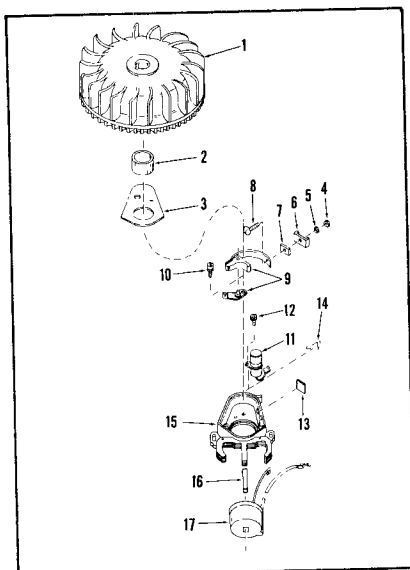
Ref. No.	Part No.	Description	No. Used
21	3-0727	Pulley	1
22	32121-37	Pin, Pulley to Shaft	1
23	3-1178	Shifter Arm Guide	1
24	32113-3	Screw, $\frac{1}{4}$ " N.C. x $\frac{3}{8}$ "	1
25	3253-3	Lockwasher, $\frac{1}{4}$ " Reg.	1
26	3-0732	Shifter Arm	1
27	3-0681	Latch Plate	1
28	302-14	Vent	1
29	3-0728	Shifter Rod	1
30	32121-23	Pin, Pulley to Shaft	1
31	3251-2	Screw, 10-24 x $1\frac{1}{2}$ "	1
32	3253-17	Lockwasher, #10 Reg.	1
33	3256-14	Washer, #10 S.A.E.	1
34	3-0731	Spring	1
35	237-34	"O" Ring	1
36	3-0730	Shifter Fork	1
37	3296-12	Nut, 10-24 Elastic Stop	1
38	3-1015	Control, Clutch	1

CARBURETOR No. 29237



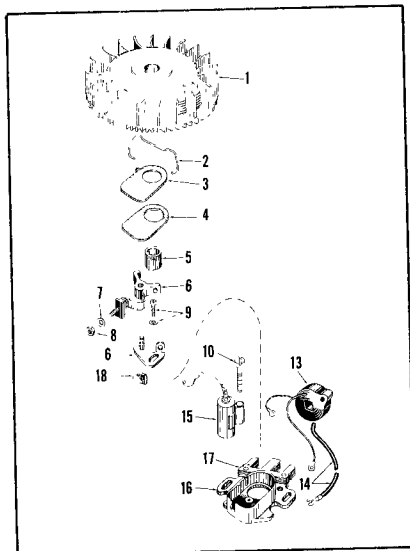
Ref. No.	Part No.	Description	No. Used
	29237	Carburetor, Walbro LMG-134	1
1	29171	Shaft Assy., Throttle	3
2	630606	Screw, Sems Pan Hd. 4-40x3/16	1
3	27553	Valve, Throttle	1
4	28637	Shaft Assy., Choke	1
5	27787	Spring, Choke Shaft	1
6	630605	Screw, Throttle Adj. #10-32x5/8"	1
7	*27112	Needle, Idle	1
8	27114	Spring, Throttle & Idle Needle	2
9	29238	Body Assy., Carburetor	1
10	28924	Valve, Choke	1
11	*27109	Gasket, Body-to-Bowl	1
12	27108	Gasket, Float Valve Seat	1
13	*29154	Valve, Seat & Gasket, Matched Float	1
14	27105	Float Assy.	1
15	*27106	Shaft, Float	1
16	27136	Stem & Gasket Assy., Bowl Drain	1
17	29170	Bowl & Drain Assy., Fuel	1
18	27137	Spring, Bowl Drain	1
19	27138	Retainer, Bowl Drain Stem	1
20	*27110	Gasket, Bowl-to-Body	1
21	*28945	Needle Assy. Power Adj.	1
22	*27544	Ring, "O"	1
23	29155	Repair Kit(Inc. Items Marked*)	1

MAGNETO No. 29162



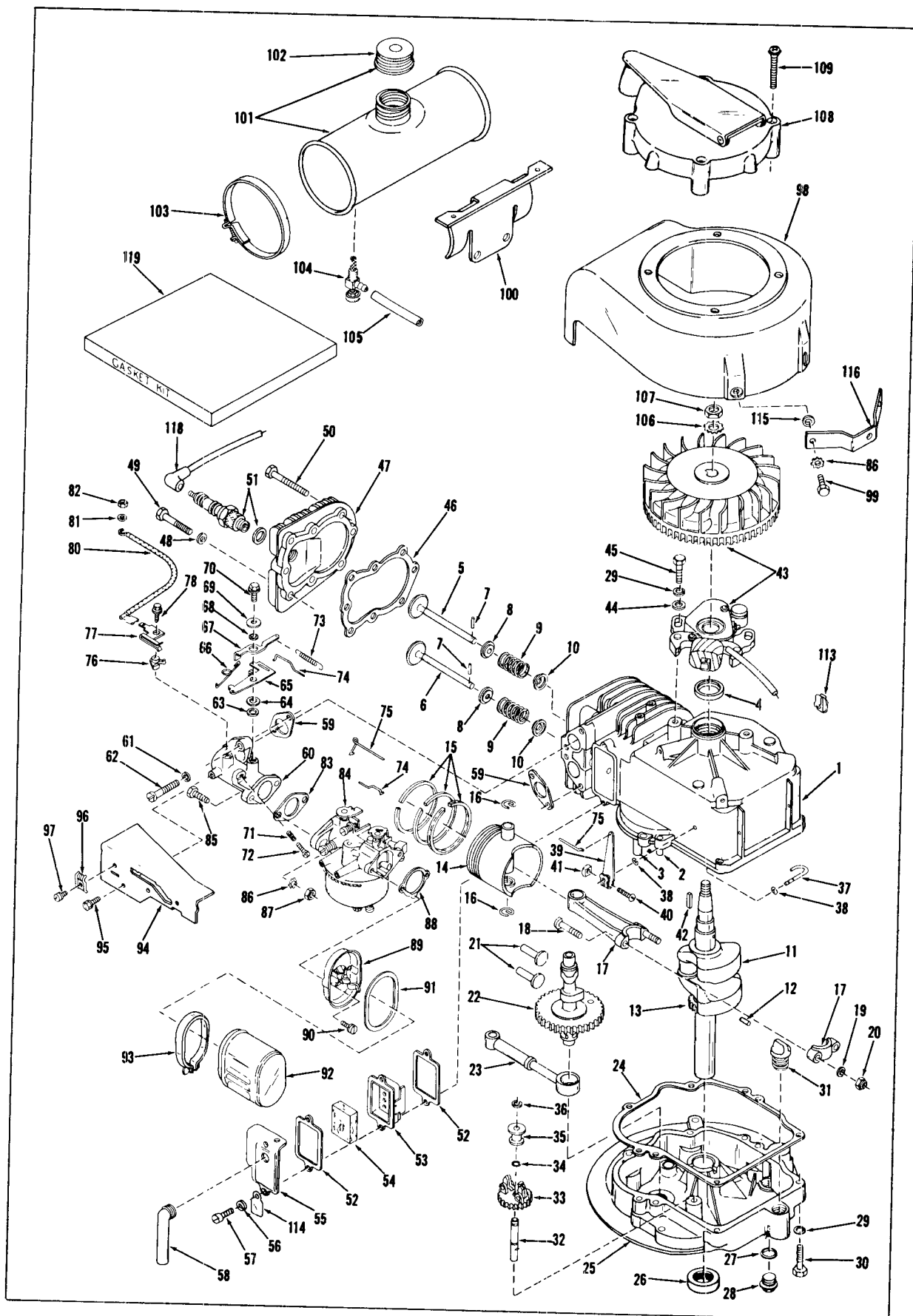
Ref. No.	Part No.	Description	No. Used
1	29165	Flywheel	1
2	29166	Cam, Breaker	1
3	29163	Cover Breaker Box	1
4	7962	Nut, Hex No. 6-32	1
5	8263	Lockwasher, Split No. 6	1
6	27523	Insulator, Outside	1
7	27524	Insulator, Inside	1
8	27525	Stud, Connecting	1
9	27526	Contact Assembly, Breaker	1
10	25524	Screw & Lockwasher	1
11	29164	Condenser	1
12	610435	Screw & Lockwasher	1
13	25525	Felt, Cam Wiper	1
14	27529	Spring, Cover	1
15	29167	Plate, Stator	1
16	27528	Spring, Coil Wedge	1
17	27531	Coil & Lead Wires	1

MAGNETO No. 29172



Ref. No.	Part No.	Description	No. Used
1	29173	Flywheel	1
2	27959	Spring, Breaker Box Cover	1
3	29180	Cover, Breaker Box Dust	1
4	29179	Gasket Box Dust Cover	1
5	29178	Cam, Breaker	1
6	610478	Breaker Assembly	1
7	610385	Washer, Terminal	1
8	610408	Nut, Terminal	1
9	29181	Screw and Washer Assembly, Breaker	1
10	610593	Screw, Condenser Fastening	1
13	29176	Coil Assembly	1
14	27950	Wire Ignition Lead	1
15	29177	Condenser	1
16	29175	Core and Plate Group	1
17	29174	Stator Assembly	1
18	27956	Felt, Cam Wiper	1

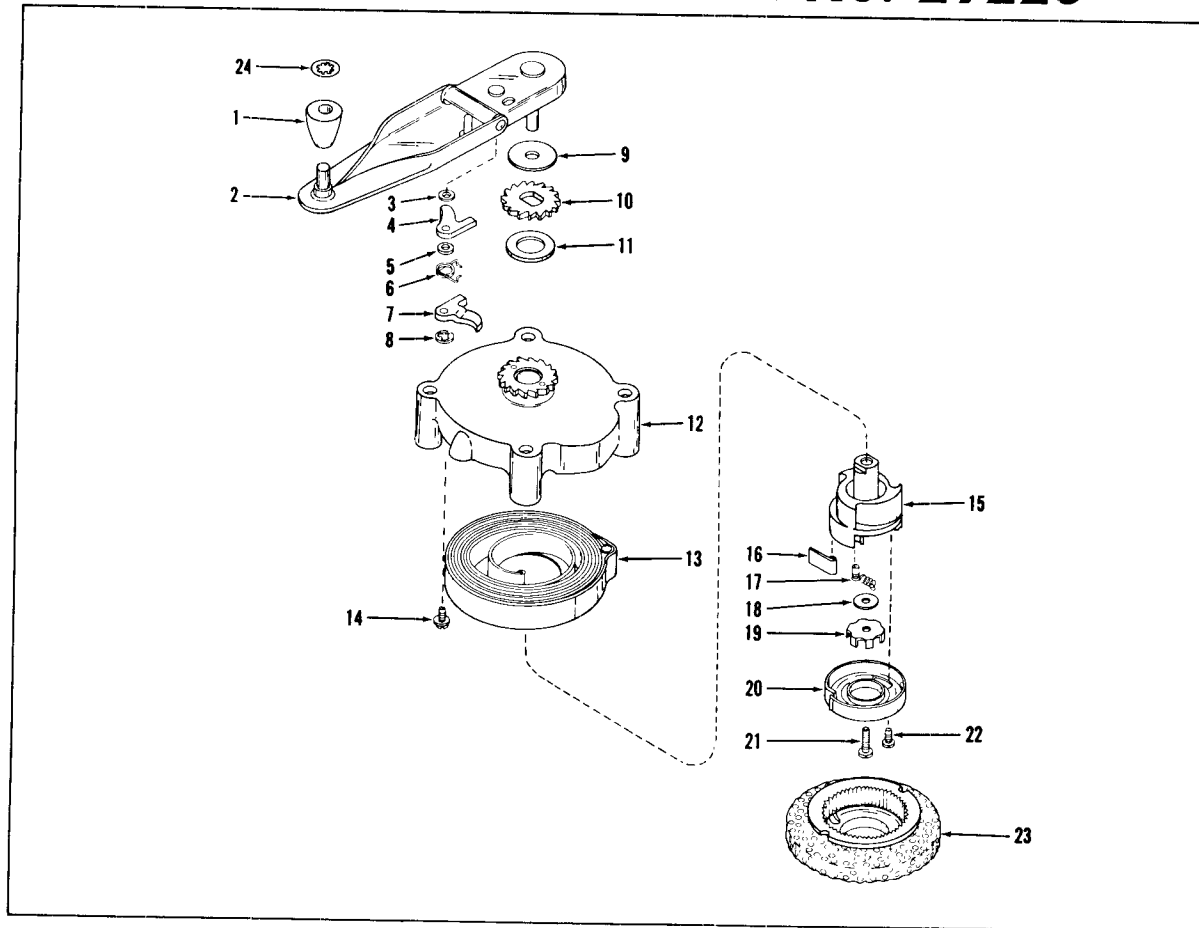
ENGINE DRAWING



ENGINE PARTS LIST

Ref. No.	Part No.	Description	No. Used	Ref. No.	Part No.	Description	No. Used
1	29182	Cylinder Assy. (Incl. Nos. 2, 3 & 4)	1	58	27627	Tube, Breather	1
2	26727	Pin, Dowel	2	59	*26754	Gasket, Intake & Exhaust	2
3	28982	Shaft, Oil Pump	1	60	29187	Pipe, Intake	1
4	*29183	Seal, Oil	1	61	27513	Lockwasher, Split, $\frac{1}{4}$ x 5/64 x 1/16	2
5	27602	Valve, Intake	1	62	28725	Screw, Phil. Fil. Hd. Mach. $\frac{1}{4}$ -20 x 7/8	2
5	27603	Valve, Intake (1/32 o. s.)	1	63	27830	Washer, Plain Flat	1
6	27600	Valve, Exhaust	1	64	28558	Washer, Spring Wave	1
6	27601	Valve, Exhaust (1/32 o. s.)	1	65	29188	Lever, Control	1
7	20794	Pin, Valve Spring Retaining	2	66	29190	Spring, Control Lever	1
8	26957	Cap, Upper Valve Spring	2	67	29189	Lever, R. P. M. Adjusting	1
9	24772	Spring, Valve	2	68	28562	Bush., R. P. M. Adj. Lever	1
10	21043	Cap, Lower Valve Spring	2	69	28563	Washer, Plain Flat	1
11	29223	Crankshaft Assy. (Incl. Nos. 12 & 13)	1	70	28762	Screw, Slotted Hex Hd., #10-24 x $\frac{1}{2}$	1
12	27378	Pin, Groove	1	71	28569	Spring Compression	1
13	27613	Gear, Crankshaft	1	72	28379	Screw, Fil. Hd. Mach. #8-32 x 5/8	1
14	27841	Piston & Pin Assy. (Incl. 2 of No. 16)	1	73	29199	Spring, Governor Extension	1
14	27861	Piston & Pin Assy. (Incl. 2 of No. 16) (.010 o. s.)	1	74	29206	Link, Choke	1
14	27862	Piston & Pin Assy. (Incl. 2 of No. 16) (.020 o. s.)	1	75	29207	Link, Mechanical Governor	1
15	27565	Ring Set	1	76	29209	Washer, Insulating	1
15	27566	Ring Set (.010 oversize)	1	77	29210	Terminal	1
15	27567	Ring Set (.020 oversize)	1	78	29218	Screw, Hex Washer Hd. #8-32 x $\frac{1}{2}$	1
16	20381	Ring, Piston Pin Retaining	2	80	28602	Wire Assy., Ground	1
17	26743	Rod Assy. Connecting (Incl. Nos. 18, 19 & 20)	1	81	8263	Lockwasher, Split, No. 6 Heavy (for WICO magneto)	1
18	26706	Bolt, Connecting Rod	2	81	8266	Lockwasher, Split, No. 8 Heavy (for Phelon magneto)	1
19	20747	Washer, Connecting Rod Bolt	2	82	7962	Nut, Hex, No. 6-32 (for WICO Magneto)	1
20	27573	Nut, Connecting Rod	2	82	7963	Nut, Hex, No. 8-32 (for Phelon Magneto)	1
21	27241	Lifter, Valve	2	83	*26756	Gasket, Carburetor	1
22	27242	Camshaft	1	84	29237	Carburetor	1
23	27246	Pump Assy. Oil	1	85	6201	Screw, Hex Hd. Cap, $\frac{1}{4}$ -28 x 7/8	2
24	*26750	Gasket, Mounting Flange	1	86	27070	Lockwasher, $\frac{1}{4}$ E. T.	4
25	29208	Flange Assy. Mtg. (Incl. Nos. 26, 27, 28 & 32)	1	87	8138	Nut Hex Jam, $\frac{1}{4}$ -28	2
26	*26208	Seal, Oil	1	88	*27272	Gasket, Air Cleaner Bracket to Carburetor	1
27	*28833	Gasket, Oil Drain Plug	1	89	29240	Bracket Air Cleaner Mtg.	1
28	27244	Plug, Oil Drain	1	90	28753	Screw, Phil. Fil. Hd. Mach. Sems, No. 8-32 x $\frac{1}{2}$	2
29	8303	Lockwasher, Split, $\frac{1}{4}$ Heavy	8	91	*29204	Gasket, Air Cleaner	1
30	6006	Screw, Hex Hd. Cap, $\frac{1}{4}$ -20 x 1 $\frac{1}{4}$	6	92	29203	Cleaner, Air	1
31	27625	Plug, Oil Filter	1	93	29239	Clamp, Air Cleaner	1
32	29194	Shaft, Mechanical Governor	1	94	29191	Cover, Speed Control	1
33	29197	Gear Assy., Governor	1	95	28763	Screw, Slotted Hex Washer Hd., No. 10-24 x 7/16	2
34	29193	Ring, Retaining	1	96	27793	Clip, Conduit	1
35	29195	Spool, Governor	1	97	28942	Screw, Hex Slotted Hd. Sems, No. 10-32 x 3/8	1
36	29193	Ring, Retaining	1	98	29232	Housing Blower	1
37	29196	Rod, Governor	1	99	650240	Screw, Hex, Hd. Cap, $\frac{1}{4}$ -20 x 5/8	2
38	29310	Ring, Retaining	2	100	3-1824	Bracket, Fuel Tank Mtg.	1
39	29198	Lever, Governor	1	101	29202	Tank Assy., Fuel (Incl. No. 102)	1
40	29215	Screw, Rd. Hd. Slotted Mach. No. 10-32 x 9/16	1	102	27799	Cap, Fuel Tank	1
41	29216	Nut, Square, No. 10-32	1	103	29200	Strap, Fuel Tank Mtg.	2
42	27247	Key, Straight	1	104	28571	Strainer & Shut Off, Fuel	1
43	29162	Magneto, WICO #FW-2617	1	105	29219	Line, Fuel	1
43	29172	Magneto, Phelon #F-3220G	1	106	27006	Lockwasher, 7/16 E. T.	1
44	9612	Flatwasher	2	107	29201	Nut, Crankshaft	1
45	650216	Screw, Hex Hd. Cap, $\frac{1}{4}$ -20 x $\frac{3}{4}$	2	108	29226	Starter, Assy., "Spin Start"	1
46	27067	Gasket, Cylinder Head	1	109	29213	Screw, Phil. Oval Hd. Sems $\frac{1}{4}$ -28 x 2 $\frac{1}{8}$	4
47	27068	Head, Cylinder	1	113	27275	Clip, Lead Wire	1
48	26073	Washer	5	114	550145	Plate, Serial Number	1
49	6021	Screw, Hex Hd. Cap, 5/16-18 x 1 $\frac{1}{2}$	5	115	3-1034	Washer, Plain Flat	3
50	6023	Screw, Hex Hd. Cap, 5/16-18 x 2	3	116	3-1825	Bracket, Shroud Mounting	1
51	21943	Plug, Spark (Champion J-8 or equiv.)	1	118	610118	Terminal Spark Plug	1
52	*27234	Gasket, Valve Spring Cover	2	119	29217	Kit, Gasket (Incl. Items Marked *)	1
53	27810	Body Assy., Breather	1				
54	27233	Element, Filter	1				
55	29311	Cover Valve Spring	1				
56	8269	Lockwasher, Split, #10 Heavy	2				
57	28404	Screw, Phil., Fil. Hd. Mach., No. 10-24 x $\frac{1}{2}$	2				

"SPIN START" STARTER No. 29226



PARTS LIST

Ref. No.	Part No.	Description	No. Req.
	29226	"Spin Start" Starter. Complete (Incl. Nos. 1-24)	1
1	29228	Knob, Starter Handle	1
2	29230	Handle Assembly	1
3	28783	Washer, Dog	1
4	28772	Dog, Release, Upper	1
5	28777	Spacer, Dog	1
6	28773	Spring, Dog Release	1
7	29150	Dog, Release, Lower	1
8	28776	Retainer, Dog Pivot	1
9	28778	Bearing, Ratchet	1
10	28769	Ratchet	1
11	28771	Spacer, Ratchet	1
12	29231	Housing Assembly	1
13	28770	Spring and Keeper Assembly	1
14	28782	Screw, Spring Keeper	4
15	28768	Spring Hub Assembly	1
16	590148	Dog, Starter	1
17	27515	Spring and Eyelet Assembly	1
18	28780	Washer, Brake	1
19	28774	Brake	1
20	590153	Retainer	1
21	28779	Screw, Brake, Binding Hd., 10-32 x 1/2	1
22	590152	Screw, Retainer, S. T., 8-32 x 7/16	2
23	29225	Hub and Screen Assembly	1
24	29227	Fastener, Handle	1

INSIST ON GENUINE TORO PARTS