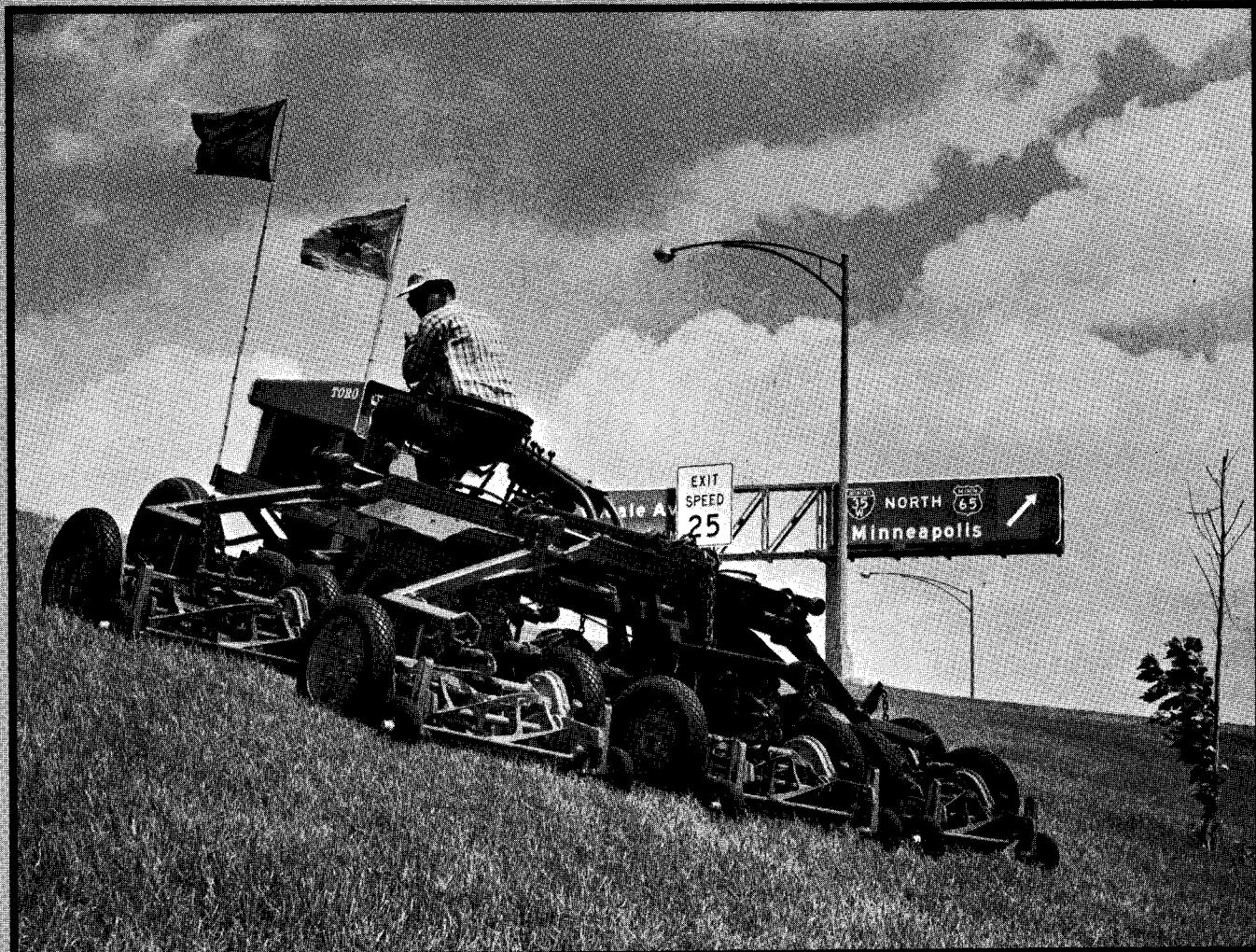


TORO

OWNER'S OPERATING AND PARTS MANUAL



7 UNIT HYDRAULIC ROADMASTER

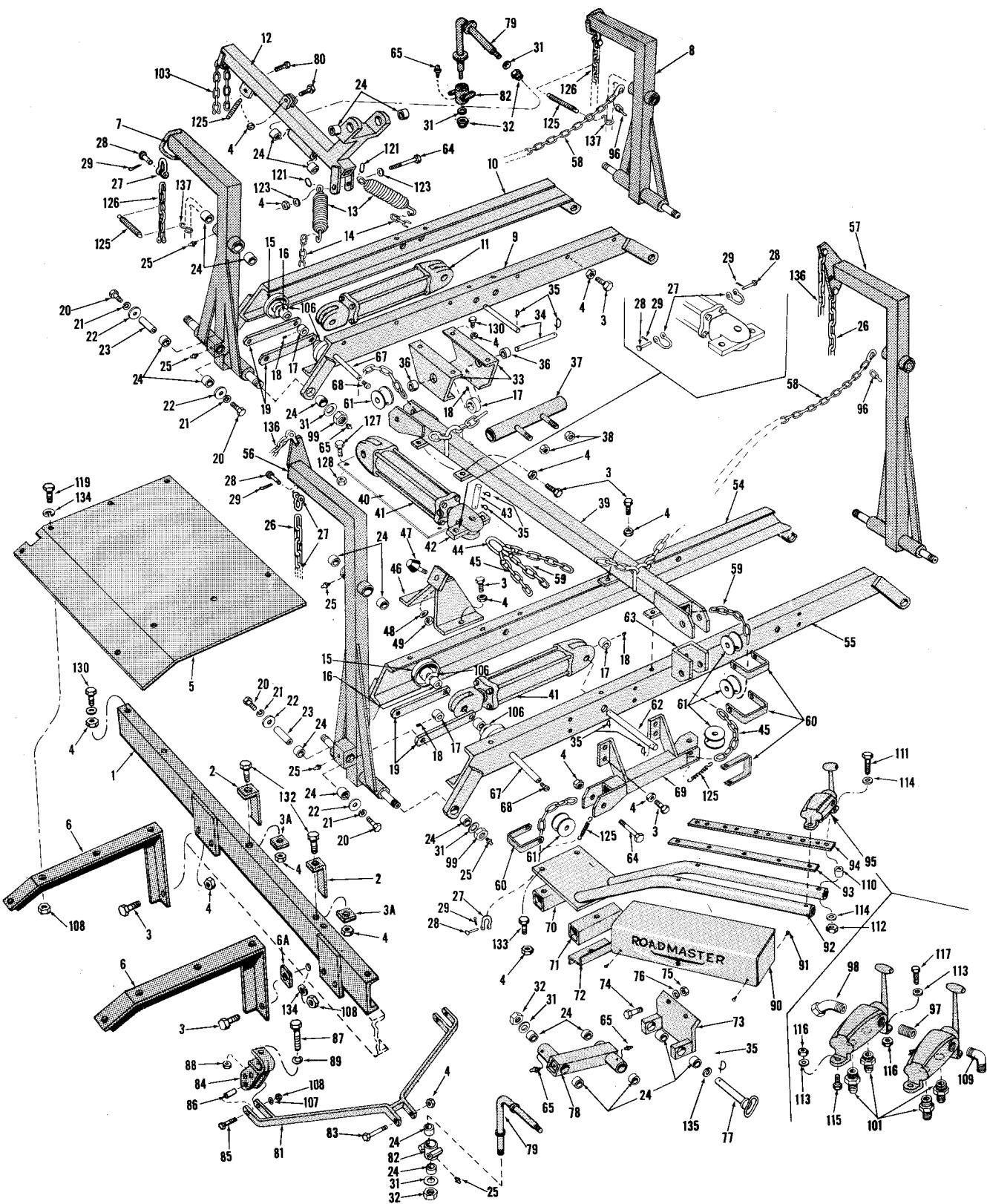
MODEL NOS. 37022 & 37023

1963

BOOK NO. 89

Price 25 cents

MAIN FRAME ASSEMBLY



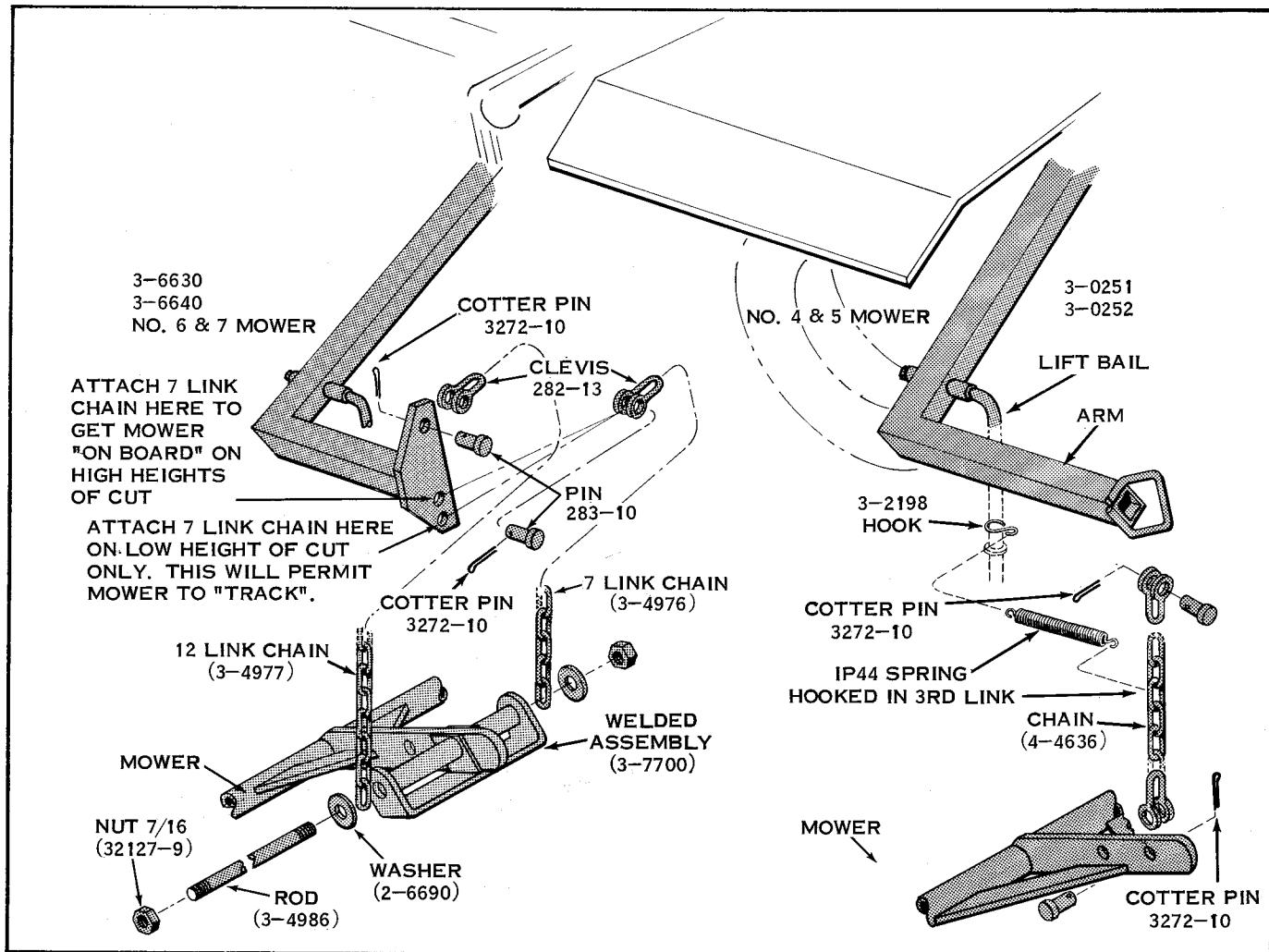
Drawing No. 89-4

MAIN FRAME ASSEMBLY PARTS LIST

Ref. No.	Part No.	Description	No. Used	Ref. No.	Part No.	Description	No. Used
1	3-4608	Side Channel, Right	1	69	3-6680	Side Mower Tube, Right	1
*	3-4606	Side Channel, Left	1	*	3-6690	Side Mower Tube, Left	1
2	3-0236	Hose Clip	2	70	3-0166	Spacer Tube, Rear	1
3	3213-3	Screw	37	71	3-0165	Spacer Tube, Front	1
3A	3290-216	Washer, Use w/Ref. 3 & 4	39	72	3-0270	Spacer	1
4	32118-3	Nut	75	73	3-2225	Bracket w/Bushings	2
5	3-4596	Mudguard, Right	1	74	3214-4	Screw	4
*	3-4597	Mudguard, Left	1	75	3219-6	Nut	4
6	3-6520	Mudguard Bracket	4	76	3253-8	Lockwasher	4
6A	3-4591	Spacer	2	77	3-0152	Pin	2
7	3-0251	Arm, Drawbar & Lift Bail	1	78	3-0151	Arm, Front	2
8	3-0252	Arm, Drawbar & Lift Bail	1	79	3-6530	Lift Bail	7
9	3-0282	Rear Cross Channel, Front	1	80	3213-6	Screw	2
10	3-0124	Rear Cross Channel, Rear	1	81	3-6510	Draw Bar	7
11	353-121	Cylinder, 10" Less Pins	2	82	3-0255	Bushing Housing	7
12	3-0224	Rear Drawbar	1	83	3213-12	Screw	7
13	5P-38A	Spring	2	84	F-732	Clamp, Drawbar	14
14	3-0295	Chain, 22 Links	2	85	3213-9	Screw	14
15	243-4	Trolley Wheel	8	86	F-733	Spacer	14
16	3-0145	Spacer	8	87	3212-10	Screw	14
17	3-0156	Collar	9	88	3219-4	Nut	14
18	3287-7	Set Screw	9	89	3253-6	Washer	14
19	3-0125	Link	8	90	3-0225	Valve Cover	1
20	3211-4	Screw	8	91	32104-29	Screw	3
21	3253-5	Lockwasher	8	92	3-0164	Valve Stand	1
22	LU-323	Washer	8	93	3-0150	Valve Bracket, Rear	1
23	3-0128	Shaft	4	94	3-0148	Valve Bracket, Front	1
24	3-0348	Bushing	54	95	353-57	Control Valve	5
25	302-5	Grease Fitting	17	96	3-0293	Chain, 2 Links	4
26	3-4976	Chain, 8" Long	2	97	289-14	Nipple	4
27	282-13	Yoke	20	98	353-130	Swivel Adapter 45°	1
28	283-10	Pin	20	99	32118-6	Nut	4
29	3272-10	Cotter Pin	20	*	304-55	Street Ell	1
31	GM224	Washer	22	101	304-59	Adapter	10
32	32118-5	Nut	10	*	304-58	Adapter	10
33	3-0146	Channel	2	*	353-141	Valve Safety	1
34	3-0144	Shaft	3	*	304-56	Nipple	1
35	K-139	Spring Pin	13	103	3-1364	Chain, 32 Links	1
36	3-0145	Spacer	2	106	3256-5	Washer	8
37	3-4250	Tube	1	107	3254-4	Lockwasher	14
38	3296-6	Nut	5	108	3219-5	Nut	32
39	3-0105	Channel Brace	1	109	304-57	Adapter	1
40	3-0175	Plate	1	110	3-0453	Spacer	4
41	353-125	Cylinder, 12" Less Pins	3	111	329-22	Screw	4
42	3-0288	Link	1	112	3219-1	Nut	4
43	353-60	Pin	1	113	3256-2	Washer	13
44	3-0326	Ring	1	114	3256-22	Washer	4
45	3-4601	Chain, 57" Long	2	115	329-13	Screw	3
46	3-0285	Arm Stop	2	116	3296-3	Nut	15
47	212-183	Rubber Bumper	2	117	329-5	Screw	8
48	3256-3	Washer	2	119	3213-15	Screw	16
49	3296-5	Nut	2	*	3-4063	Trim Moulding	1
54	3-1382	Front Cross Channel, Rear	1	121	2830-8	Link	2
55	3-1384	Front Cross Channel, Front	1	123	3256-26	Washer	2
56	3-6630	Arm, Draw Bar & Lift Bail	1	125	1P-44	Spring	5
57	3-6640	Arm, Draw Bar & Lift Bail	1	126	3-4636	Chain, 6-5/8" Long	2
58	3-0297	Chain, Safety, 15 ³ / ₄ " Less Hooks	4	127	3211-5	Screw	3
59	3-4602	Chain, 90-7/8" Long	1	128	3296-6	Nut	5
60	3-0136	Chain Keeper	7	130	3213-4	Screw	15
61	3-2196	Sheave	7	*	304-61	Clip	2
62	3-0144	Shaft	2	132	3213-2	Screw	2
63	3-0112	Bracket, Sheave	1	133	3213-10	Screw	3
64	3213-19	Screw	8	134	3253-7	Washer, Lock	18
65	302-13	Grease Fitting	11	135	3256-30	Washer	2
67	3-0130	Shaft	4	136	3-4977	Chain	2
68	3290-118	Special Screw	8	137	3-2198	Hook	2

* Not Illustrated

ATTACHING MOWER TO ARMS



OPERATING INSTRUCTIONS

HYDRAULIC SYSTEM AND CONTROLS

The hydraulic system includes four double-acting hydraulic cylinders for raising and lowering the wing mowers, and one double-acting cylinder for raising and lowering the underslung side mowers and the rear center mower. Other components of the hydraulic

system include hydraulic pump, hydraulic fluid tank, filter, lines and controls.

FILLING THE HYDRAULIC SYSTEM

Fill the oil reservoir, located under the hood with a good grade of S. A. E. 20 non-detergent motor oil, or with a type A transmission oil.

TO RAISE WING MOWERS FOR TRANSPORT

With the tractor engine running, pull down on wing mower controls (see control panel cover on tractor) until the wing mowers swing into position. The control levers will snap back into neutral position when each unit is fully raised.

TO LOWER WING UNITS FOR MOWING

Remove 4 safety chains from mowers and, with all control levers in neutral position, push down on the wing mower control. Lever will snap back into neutral position when mower is fully lowered. A restrictor valve will slow the mower descent.

TO RAISE UNDERSLUNG AND CENTER UNITS

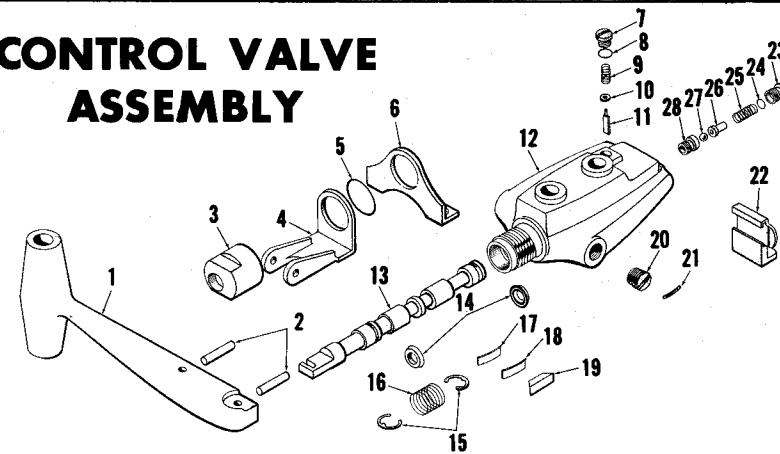
PULL DOWN on the center lever control and release. Underslung and rear center mowers will raise into position and the control lever will snap back to neutral position. Snap 4 safety chains into place and the Hydraulic Frame is now ready for transport.

TO LOWER UNDERSLUNG AND CENTER UNITS

PUSH DOWN on the center control lever to lower the left and right underslung and rear center mowers simultaneously. This lever will snap back to neutral position when mowers are fully lowered and can be left in this position for mowing.

CAUTION: BEFORE RAISING OR LOWERING MOWERS, EACH TIME CHECK TO MAKE SURE THAT NO PERSONS ARE WORKING ON, OR ARE NEAR, THE CUTTING UNITS.

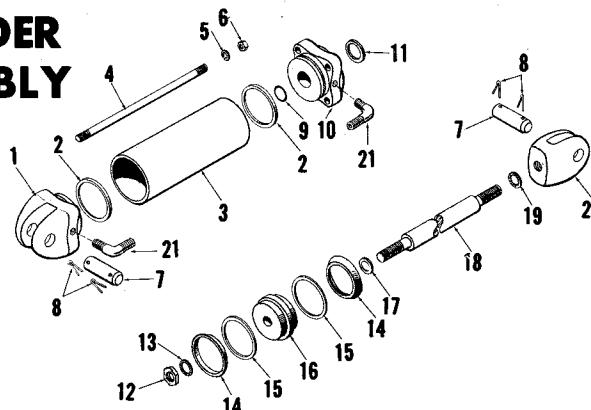
CONTROL VALVE ASSEMBLY



Ref. No.	Part No.	Description	No. Used
1	353-93	Handle	1
2	32121-33	Pin	2
3	353-91	End Cap	1
4	353-96	Bracket	1
5	237-29	"O" Ring	1
6	353-97	Bracket	1
7	353-114	Cap, Detent	1
8	237-30	"O" Ring	1
9	353-115	Spring	1
10	353-95	Bushing	1
11	353-100	Blade	1
12	353-113	Valve Block	1
13	353-94	Valve Spool	1
14	253-79	Seal	2

Ref. No.	Part No.	Description	No. Used
15	32120-56	Snap Ring	2
16	353-89	Spring	1
17	353-108	Shuttle Spring	1
18	353-99	Shuttle Spring	1
19	353-98	Shuttle	1
20	353-103	Plug	1
21	353-101	Lock Wire	1
22	353-92	End Cap	1
23	353-102	Spring Retainer	1
24	237-28	"O" Ring	1
25	353-88	Spring	1
26	353-111	Ball Retainer	1
27	255-2	Ball	1
28	353-112	Relief Valve Seat	1

CYLINDER ASSEMBLY



Ref. No.	Part No.	Description	No. Used
1	353-72	Clevis End Cap	1
2	353-65	Seal, End Cap	2
3	353-70	Tube, 8"	1
*	353-122	Tube, 10"	1
*	353-126	Tube, 12"	1
4	353-77	Tie Rod, 8"	4
*	353-123	Tie Rod, 10"	4
*	353-127	Tie Rod, 12"	4
5	3254-3	Lockwasher, 7/16" Int.	4
6	3219-4	Nut, 7/16" N.F.	4
7	353-76	Pin	2
8	3272-49	Cotter Pin	4
9	353-64	Seal	1

Ref. No.	Part No.	Description	No. Used
10	353-73	Top End Cap	1
11	353-66	Seal Ring Wiper	1
12	3219-7	Nut, 3/4" N.F.	1
13	3254-7	Lockwasher, 3/4" Int.	1
14	353-68	Block V Seal	2
15	353-69	Backup Washer	2
16	353-74	Piston	1
17	353-67	Fibre Washer	1
18	353-75	Piston Rod, 8" and 10"	1
*	353-128	Piston Rod, 12"	1
19	3254-13	Lockwasher, 7/8" Int.	1
20	353-71	Rod End Clevis	1
21	304-58	Adapter	10

* Not Illustrated

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

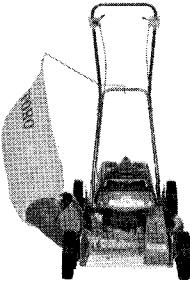
helped make Toro the world's largest manufacturer of power mowers — is to provide the customer with complete local service and parts. This Toro has done through an extensive chain of service dealers, factory-trained to give you the most careful, competent care for your Toro work-saver.



19" WHIRLWIND



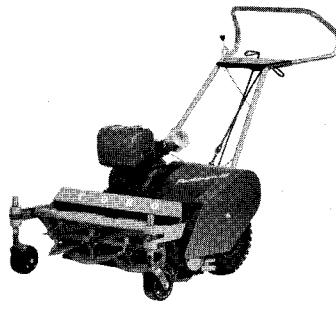
21" HAND PROPELLED
WHIRLWIND



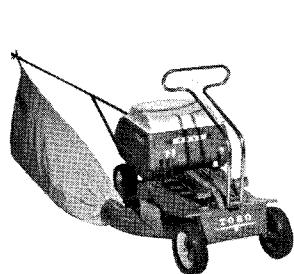
21" SELF-PROPELLED
WHIRLWIND



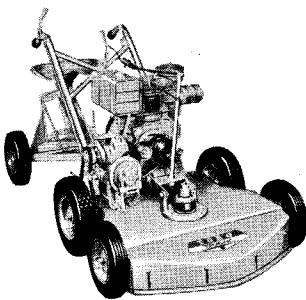
21" SPORTLAWN



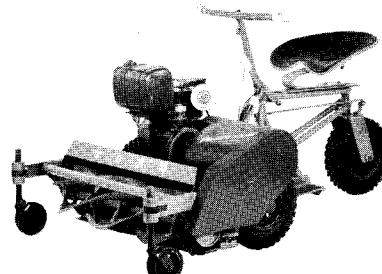
25" PARKLAWN



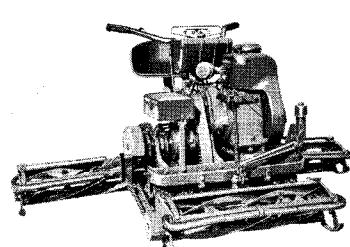
25" PONY



31" GRASSKING



30" PARKLAWN



76" PROFESSIONAL



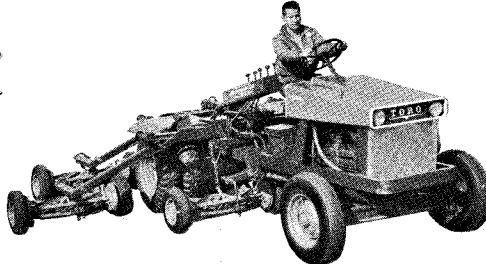
21" HEVI-DUTY
WHIRLWIND



25" HEVI-DUTY
WHIRLWIND



32" SELF-PROPELLED
WHIRLWIND



7 UNIT HYDRAULIC PARKMASTER

Reel Mower or Rotary Mower . . . Self Propelled or Riding Mower . . . Whatever your preference in Power Mowers, Toro makes a model to fit your needs. Choose from Toro's complete line of fine mowing equipment.

Toro has a mower that's just right for you. And Toro Mowers are the best you can buy!

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Builds the right Power Mower for every need!