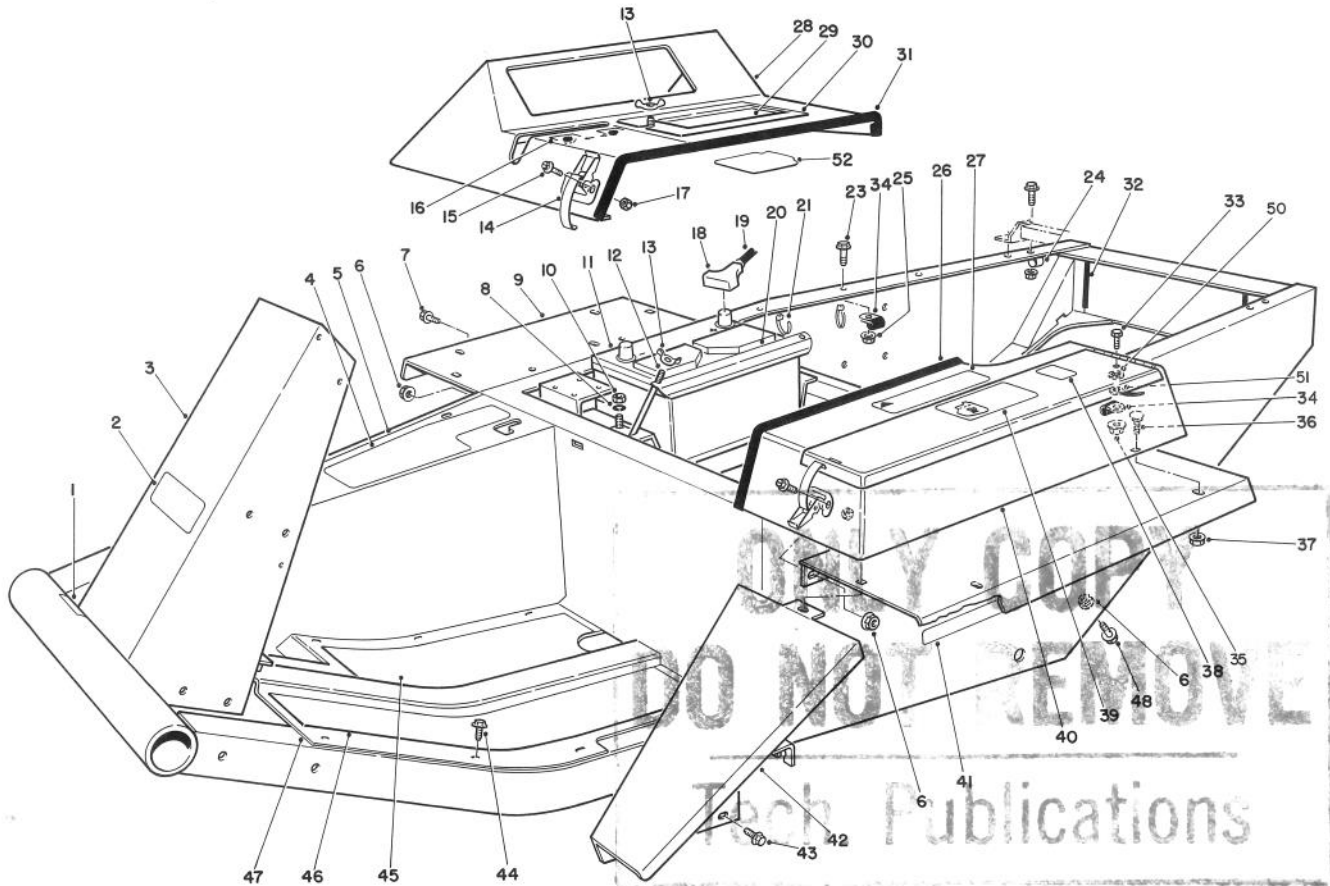




MODEL NO. 30789-40001 &amp; UP

PARTS  
CATALOG

# GROUNDMASTER® 345 TRACTION UNIT



T-0913B

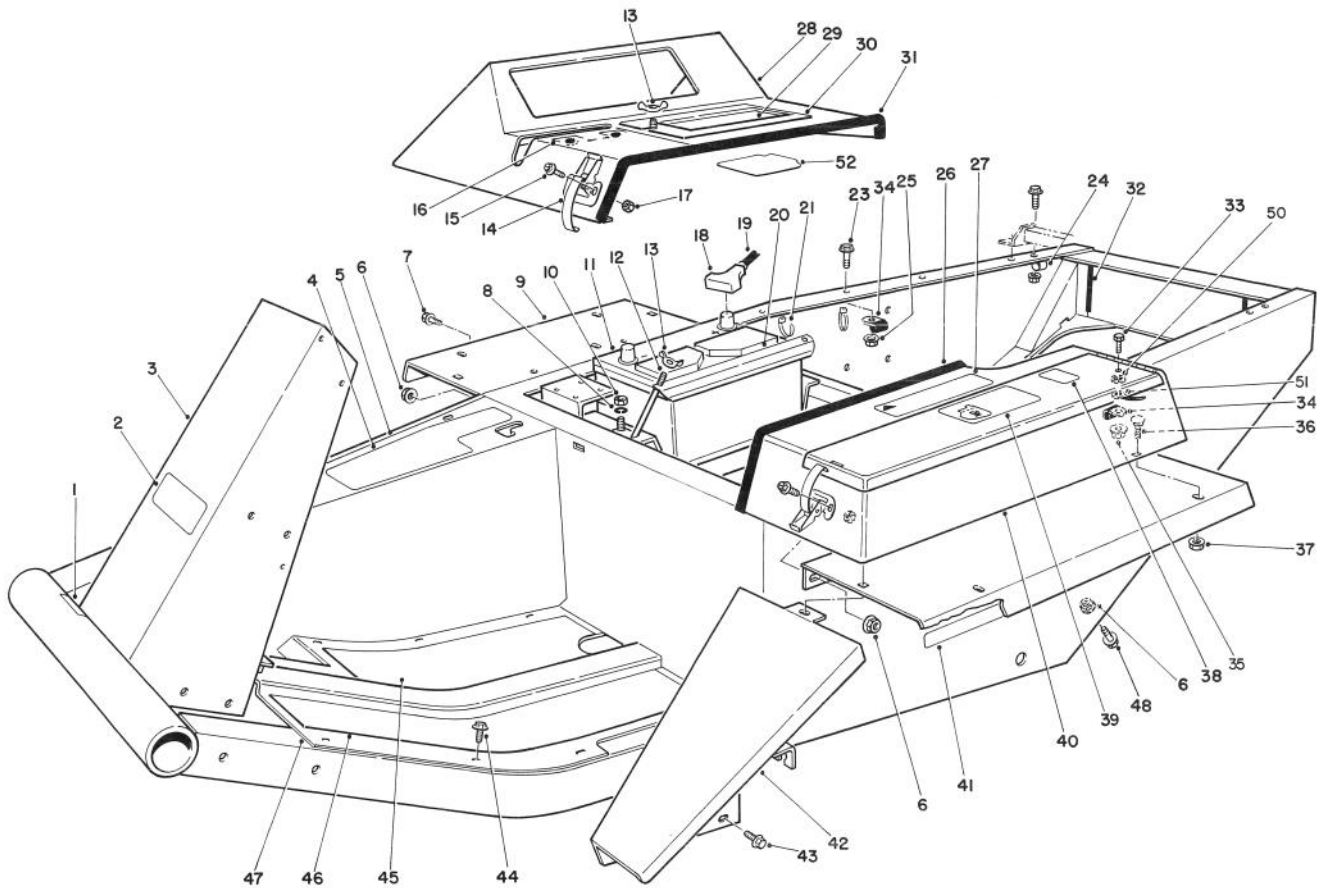
## MAIN FRAME ASSEMBLY

Ref. No.	Part No.	Description	No. Used	Ref. No.	Part No.	Description	No. Used
1	27-7320	Decal - Traction Pedal	1	16	27-7290	Decal - Power Take Off	1
2	70-2200	Decal - Toro	1	17	3296-2	Nut - Lock	6
3	82-8980	Frame (Incl. Ref. #48)	1	18	28-1280	Boot - Cable	1
4	66-6390	Decal - Caution	1	†19		Cable - Battery Positive	1
5	21-2660	Footrest	1	20	24-6420	Hold Down - Battery	1
6	32128-21	Nut - Lock, Flange	10	21	3290-378	Cable Tie	2
7	3234-12	Screw - Flange Hex. Hd.	4	23	3234-11	Capscrew w/Locking Flange	5
8	3253-4	Washer - Lock	2	24	2412-39	Clamp	2
9	72-3690	Fender	2	25	3290-357	Nut - Lock, Flange	5
10	3217-6	Nut	2	26	37-9650	Trim	1
†11		Battery (Group Size 24)	1	27	67-1710	Decal - Caution	1
12	24-6390	Stud - Battery Hold Down	2	28	38-4550	Instrument Cover	1
13	32103-2	Nut - Wing	2	29	92-7802	Decal - Starting Instructions	1
14	249-21	Hook Clamp	3	30	92-7800	Cover - Battery Access (Incl. Ref. #29 & 52)	1
15	3290-144	Screw - Machine	6	31	39-8020	Trim - Instrument Cover	1

†Obtain Locally

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TPS

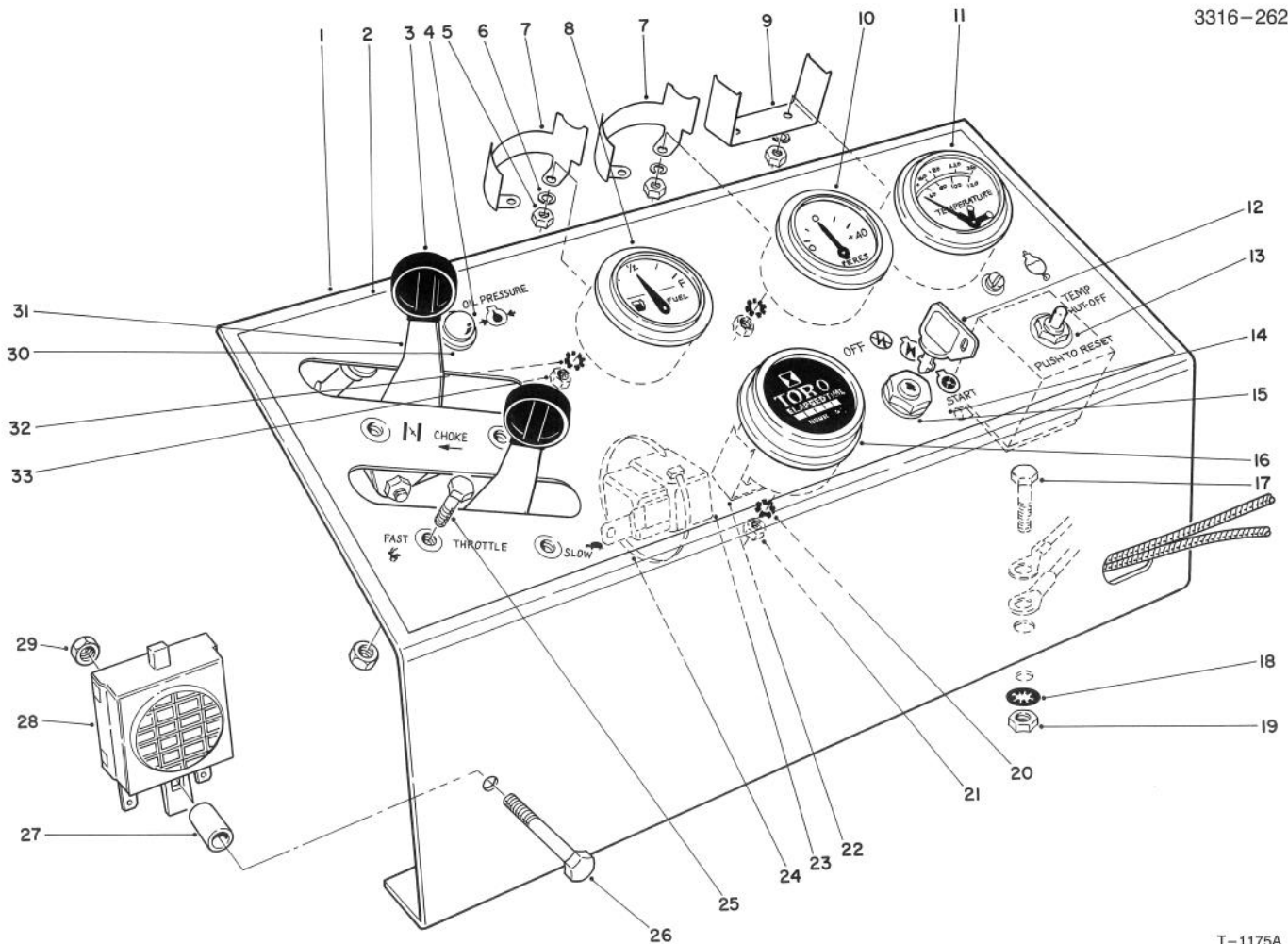


T-0913B

## MAIN FRAME ASSEMBLY (Continued)

Ref. No.	Part No.	Description	No. Used
32	43-4300	Trim - Rear Frame	2
33	322-5	Screw - Cap, Hex. Hd.	1
34	2412-74	Clamp	2
35	32128-20	Nut - Lock, Flange	1
36	3229-1	Bolt - Carriage	5
37	32128-13	Nut - Lock, Flange	5
38	53-4420	Decal - Fuel	1
39	27-7310	Decal - Refueling	1
40	38-4530	Tool Box	1
41	67-1720	Decal - Torque	2

Ref. No.	Part No.	Description	No. Used
42	68-8610	Fender - Extension	1
43	3234-14	Screw - Cap, Hex. Hd.	2
44	32144-10	Screw - Self Tapping	11
45	21-2770	Pad - Foot Rest R.H.	1
46	21-2760	Pad - Foot Rest L.H.	1
47	88-0070	Floor Plate	1
48	3234-25	Screw - Hex. Flange Hd.	4
50	3254-2	Washer - Lock Internal	1
51	18-2770	Cable - Ground	1
52	92-7801	Shield - Cover, Battery	1

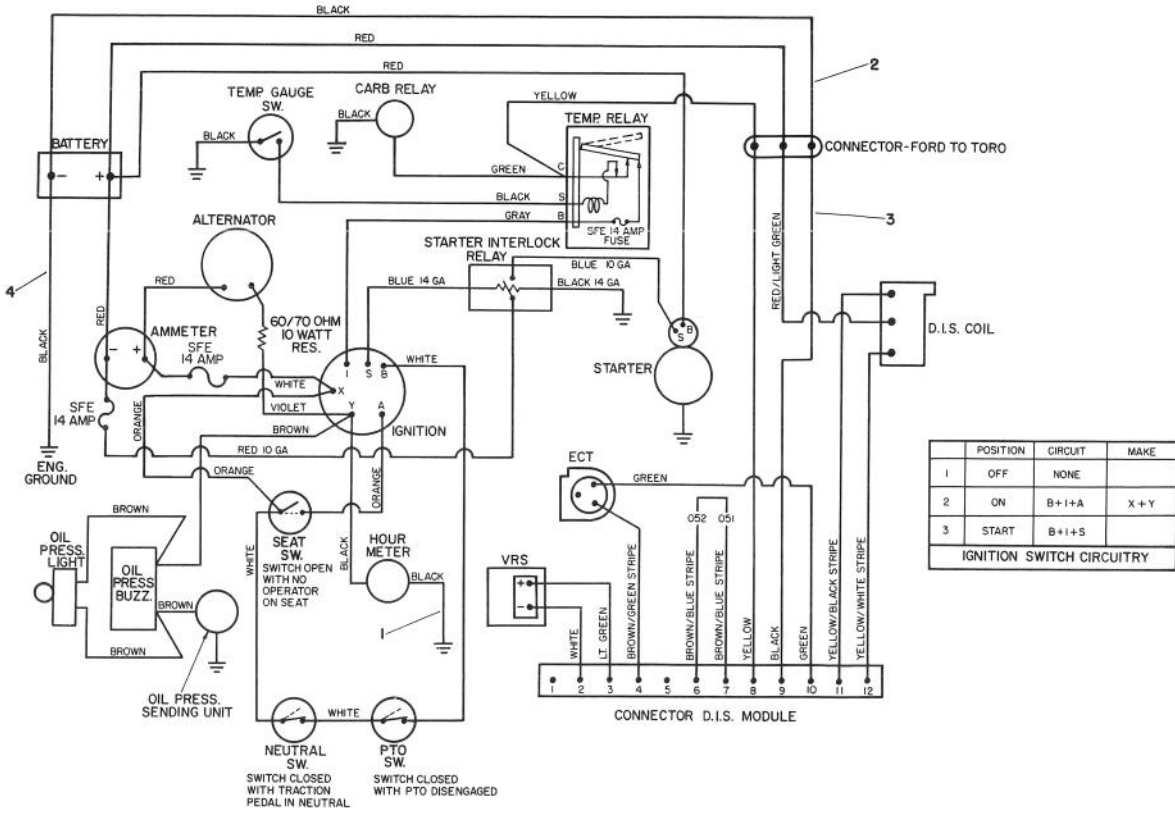


T-1175A

## INSTRUMENT PANEL ASSEMBLY

Ref. No.	Part No.	Description	No. Used	Ref. No.	Part No.	Description	No. Used
1	86-9370	Panel - Instrument	1	17	322-5	Screw - Cap, Hex. Hd.	2
2	85-7470	Decal - Instrument Panel	1	18	3254-2	Washer - Lock, Int. Tooth	6
3	233-35	Knob - Control	2	19	3217-6	Nut	2
4	218-516	Lens	1	20	3255-5	Washer - Lock	1
5	3219-14	Nut	6	21	3217-26	Nut - Hex.	1
6	3254-1	Washer - Lock	6	22	218-515	Mounting Bracket	1
7	38-1670	Mounting Clamp	2	23	63-7590	Relay	1
8	38-1650	Fuel Gauge (Incl. Ref. #5-7, 32 & 33)	1	24	3290-379	Cable Tie	1
9	218-539	Clamp	1	25	3290-134	Screw Machine Hex. Hd.	4
10	38-1660	Ammeter (Incl. Ref. #5-7, 32 & 33)	1	26	3290-360	Screw Machine Hex. Hd.	1
11	67-8550	Engine Temperature Gauge (Incl. Ref. #5, 6 & 9)	1	27	22-7810	Spacer	1
12	63-8360	Key	1	28	22-7820	Buzzer Assembly	1
13	26-6740	Temperature Reset Relay	1	29	3296-12	Nut - Lock	5
†14		Fuse Temp. Relay 14 amp SFE	1	30	44-2210	Warning Light (Incl. Ref. #4)	1
15	27-2360	Switch	1	31	67-8560	Throttle & Choke Control (Incl. Ref. #3)	2
16	12-9990	Hour Meter (Incl. Ref. #20-22)	1	32	3255-24	Washer - Lock	5
				33	3217-29	Nut - Hex.	5

†Obtain Locally



T-0915

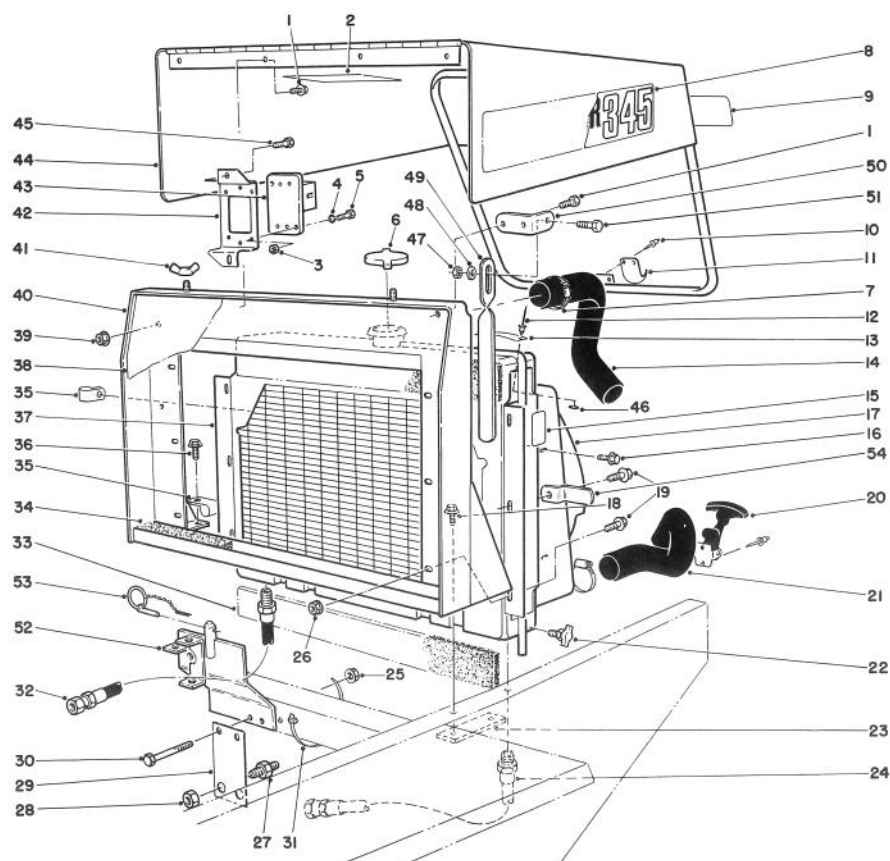
## ELECTRICAL SCHEMATIC

Ref. No.	Part No.	Description	No. Used
1	21-2370	Wire - Hour Meter Ground	1
2	86-5240	Wire - Harness Assembly	1

Ref. No.	Part No.	Description	No. Used
†3	ESJL-12A200-AC	Wire - Harness (Ford)	1
4	67-8540	Cable - Ground	1

†Obtain from your local Ford Power Products Dealer.



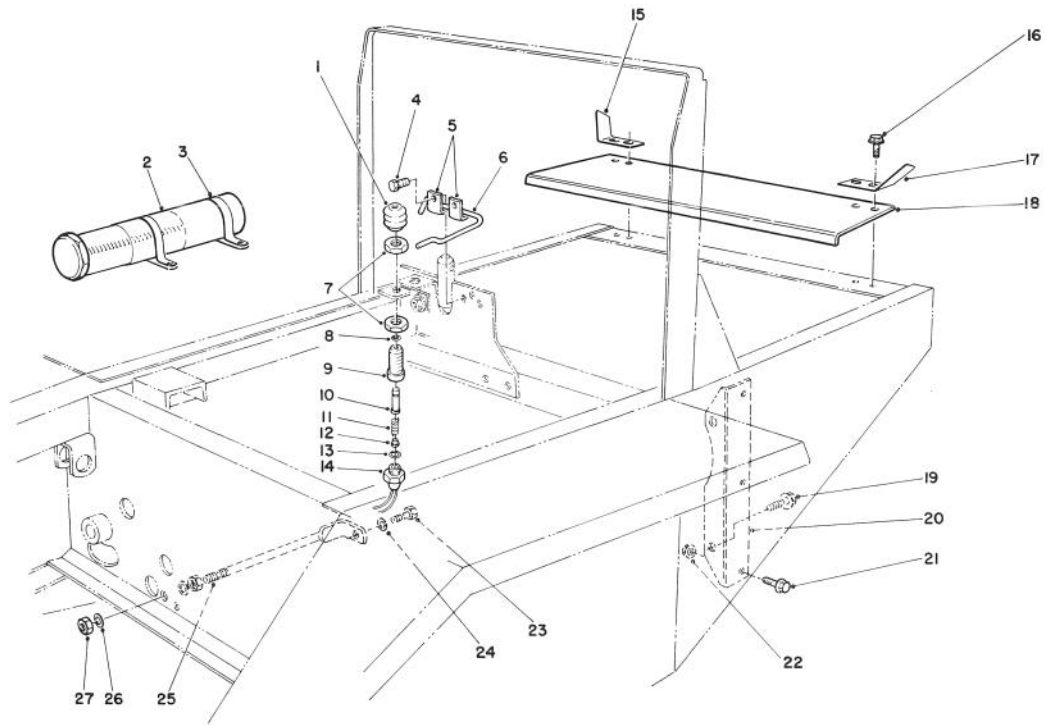


T-0916A

## RADIATOR & HOOD ASSEMBLY

Ref. No.	Part No.	Description	No. Used	Ref. No.	Part No.	Description	No. Used
1	32144-10	Screw - Hex. Self-Tapping	5	27	340-71	Union - Bulkhead	2
2	82-8970	Decal - Coolant Engine	1	28	340-70	Nut - Lock, Bulkhead	2
3	48-7890	Nut - Metric	2	29	68-9160	Bracket	1
4	43-5930	Washer - Metric	2	30	323-14	Screw - Cap, Hex Hd.	3
5	48-7630	Screw - Metric	2	31	3290-379	Tie - Cable	4
6	66-3240	Cap - Pressure Radiator	1	32	63-8960	Hose Assembly	1
7	2412-3	Clamp - Hose	4	33	43-3320	Foam - Radiator	2
8	67-8880	Decal - Groundskeeper 345	2	34	70-1790	Strip - Foam Sealing	1
9	66-6140	Decal - Toro	1	35	2412-39	Clamp	2
10	3290-271	Rivet	4	36	11-0590	Screw - Hex Self-Tapping	2
11	249-40	Keeper	1	37	67-8590	Radiator Assembly	1
12	3269-13	Rivet	2	38	67-9030	Grille - Radiator	1
13	76-8750	Decal - Warning	1	39	32128-33	Nut - Lock, Flange	2
14	70-1630	Hose - Radiator Upper	1	40	86-9400	Support - Radiator	1
15	77-3100	Decal - Warning	2	41	32103-2	Nut - Wing	2
16	32104-116	Screw - Flange, Hex Hd.	4	42	70-1660	Bracket - E.S.C.	1
17	67-8640	Shroud - Radiator	1	†43		Module - E.S.C.	1
18	3234-1	Screw - Cap, Flange Hd.	2	44	14-8459	Hood	1
19	3234-14	Screw - Flange, Hex Hd.	6	45	321-39	Screw - Cap, Hex Hd.	2
20	59-9740	Latch - Draw (Inc. Ref. #11)	1	46	3269-10	Washer	2
21	67-8660	Hose - Radiator Lower	1	47	3296-16	Nut - Lock	1
22	304-46	Draincock	1	48	3256-22	Washer - Flat	1
23	38-4600	Bar - Frame L.H.	1	49	84-5380	Strap - Hood Prop	1
24	63-9010	Hose Assembly (Cooler to Pump)	1	50	84-5330	Bracket - Hood Prop	1
25	32128-21	Nut - Flange Head	3	51	321-6	Screw - Cap Hex. Hd.	1
26	32128-20	Nut - Flange Head	6	52	86-9410	Support - Seat	1
				53	283-76	Pin - Lynch	1
				54	86-7060	Bracket - Hood Hold Down	1

†Obtain from your local Ford Power Products Dealer.



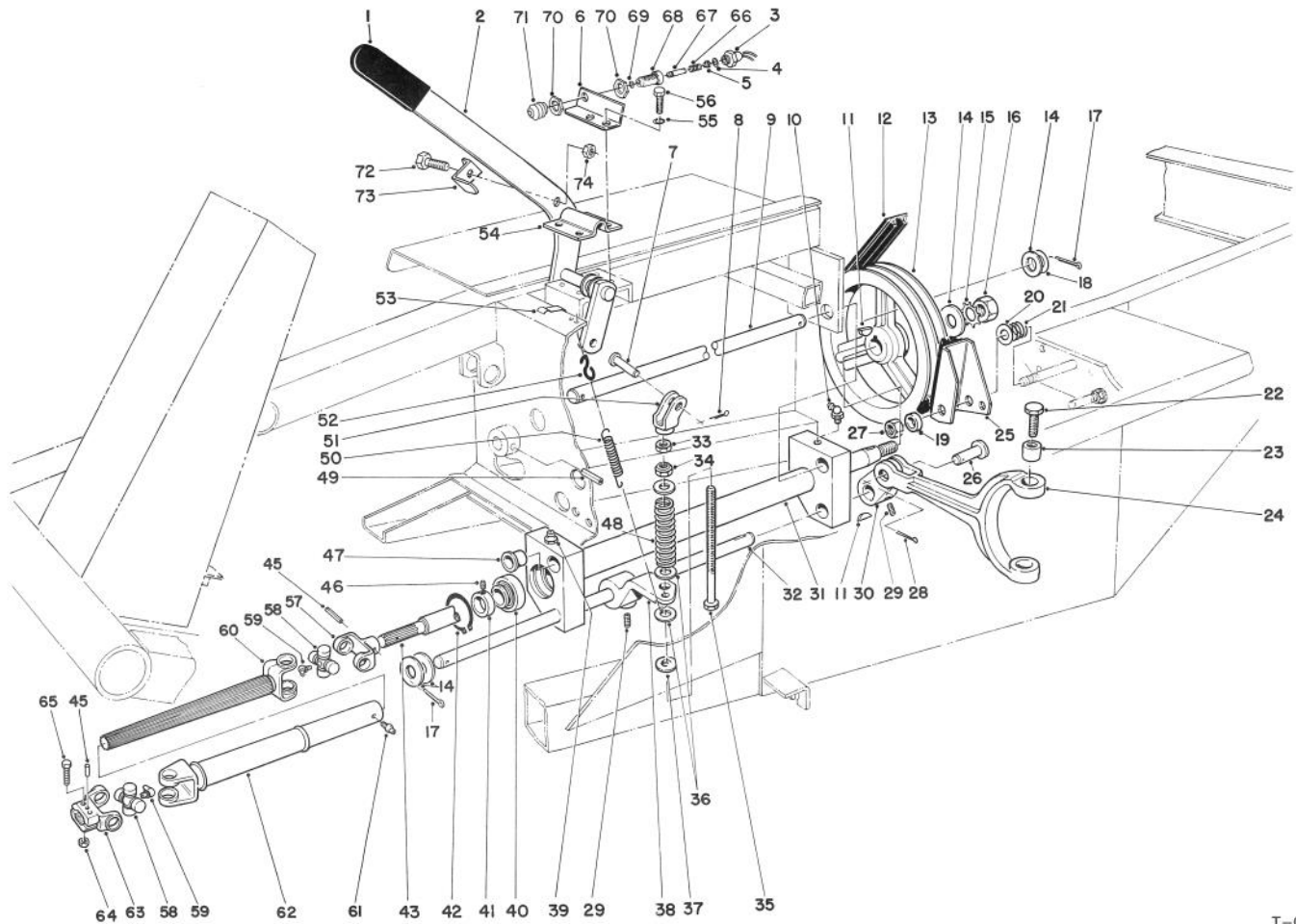
T-0917A

## INTERLOCK ASSEMBLY

Ref. No.	Part No.	Description	No. Used
1	43-8870	Boot - Switch	1
2	74-0720	Tube - Manual	1
3	2412-133	R-Clamp	2
4	32144-10	Screw - Self Tapping	2
5	3-6657	Clip	2
6	86-7040	Rod - Seat Prop	1
7	218-461	Nut - Jam	2
8	237-7	Seal - O-Ring	1
9	43-8620	Guide - Switch Pin	1
10	43-8860	Plunger - Switch	1
11	43-8600	Spring - Compression	1
12	43-8610	Guide - Spring & Ball Seat	1
13	237-30	Seal - O-Ring	1
14	72-4320	Switch - Ball	1
15	62-3010	Bracket - R.H.	1

Ref. No.	Part No.	Description	No. Used
16	3234-17	Screw - Cap Flange Hd.	4
17	62-3020	Bracket - L.H.	1
18	70-1890	Guard - Flywheel	1
19	3234-6	Screw - Cap Flange Hd.	2
20	67-8190	Bracket - Engine Support	2
21	3234-11	Screw - Cap Flange Hd.	6
22	3290-357	Nut - Lock, Flange	6
23	323-3	Screw - Cap Hex. Hd.	1
24	3253-21	Washer - Lock	1
25	24-9830	Support - Axle	1
26	3256-5	Washer - Flat	2
27	3217-9	Nut	2
*	43-9071	Assembly - Switch (Incl. Ref.#1, 7-14, Qty. 1 of Item #7)	1

\*Not Illustrated

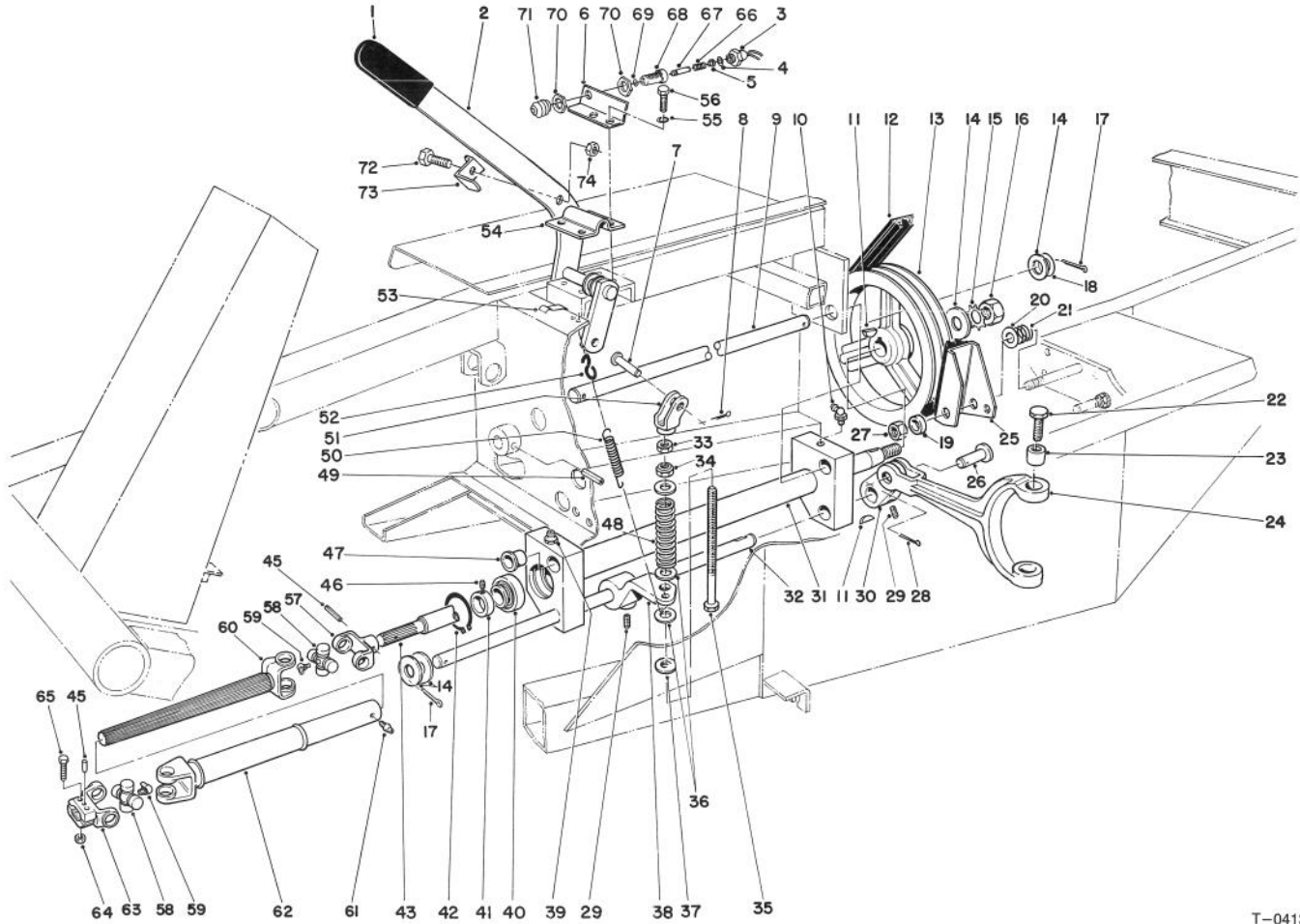


T-0413A

## POWER TAKE OFF ASSEMBLY

Ref. No.	Part No.	Description	No. Used
1	21-1880	Grip Handle	1
2	84-8500	Lever - P.T.O.	1
3	72-4320	Switch - Ball	1
4	237-30	Seal - O-Ring	1
5	43-8610	Guide - Spring & Ball Seat	1
6	84-8520	Bracket - P.T.O. Switch	1
7	283-42	Clevis Pin	1
8	3272-10	Cotter Pin	1
9	43-3860	Shaft - Pivot P.T.O.	1
10	302-10	Fitting - Grease	1
11	3257-5	Key - Woodruff	3
12	53-9660	V-Belt Torque Team	1
13	21-0230	Pulley - P.T.O.	1
14	3256-28	Washer - Flat	4
15	3254-7	Washer - Lock	1
16	3219-7	Nut - Hex.	1
17	3272-22	Pin - Cotter	2
18	3-6498	Washer	A/R
19	3-8812	Spacer	1
20	3256-6	Washer - Flat	1
21	5-1747	Spring	1
22	92-5727	Screw - Cap, Hex. Hd.	2
23	92-5723	Bushing - P.T.O. Fork	2
24	92-4060	Fork P.T.O.	1
25	27-7370	Brake Assembly P.T.O.	1
26	283-74	Clevis Pin	1

Ref. No.	Part No.	Description	No. Used
27	3296-28	Nut - Lock	1
28	3272-11	Pin - Cotter	1
29	3246-3	Screw - Set	4
30	92-4058	Arm - P.T.O.	1
31	43-5500	Pivot P.T.O.	1
32	43-5550	Shaft - P.T.O. Actuator	1
33	3219-3	Nut	1
34	3296-6	Nut - Lock	1
35	27-7900	Screw - Adjusting	1
36	3256-41	Washer - Flat	4
37	5-0652	Spacer	1
38	43-5570	Arm - P.T.O. Actuator	1
39	302-2	Grease Fitting	1
40	251-252	Ball Bearing (Incl. Ref. #41)	2
41	251-234	Lock Collar (Incl. Ref. #46)	2
42	32120-22	Ring - Retaining	2
43	43-5540	Shaft P.T.O.	1
44	62-4260	Drive Shaft Assembly	1
45	32121-34	Pin - Roll	2
46	3245-1	Screw - Set	2
48	21-0400	Spring - Compression	1
49	32121-9	Pin - Roll	1
50	21-1830	Spring - Tension	1
51	43-5630	Yoke - P.T.O.	1



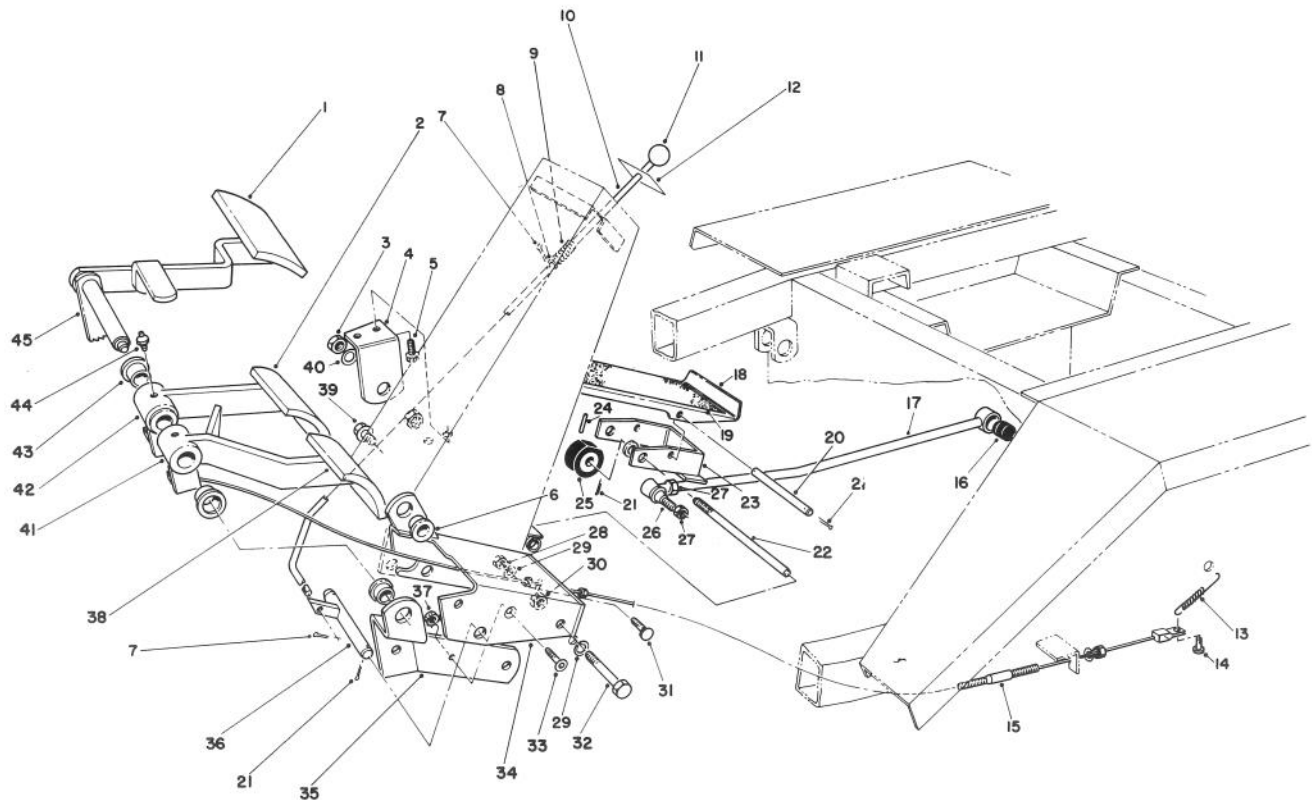
T-0413A

## POWER TAKE OFF ASSEMBLY (Continued)

Ref. No.	Part No.	Description	No. Used
52	5-0701	Spring Anchor	1
53	212-93	Wire Clip	1
54	21-1600	Clamp P.T.O. Lever	1
55	3253-21	Washer - Lock	4
56	32104-6	Screw - Hex. Hd. Tapping	4
57	62-3800	Yoke - End	1
58	54-9180	Kit - U-Joint	2
59	62-3820	Fitting - Grease	2
60	62-3290	Shaft - Slip Yoke	1
61	302-58	Fitting - Grease	1
62	62-3790	Tube - Slip Yoke	1
63	54-9040	Yoke - End (Split)	1
64	3296-29	Nut - Lock	2
65	322-9	Screw - Cap Hex. Hd.	2

Ref. No.	Part No.	Description	No. Used
66	43-8600	Spring - Compression	1
67	43-8860	Plunger - Switch	1
68	43-8620	Guide - Switch Pin	1
69	237-7	Seal - O-Ring	1
70	218-461	Nut - Jam	2
71	43-8870	Boot - Switch	1
72	321-4	Screw - Cap Hex. Hd.	1
73	86-7050	Bracket - Switch Actuator	1
74	3296-16	Nut - Lock	1
*	43-9071	Assembly - Switch (Incl. Ref. #3-5 & 66-71) (Qty. 1 of Item #70)	1
*	84-4890	Assembly - Drive Shaft (Incl. Ref. #57-63)	1

\*Not Illustrated

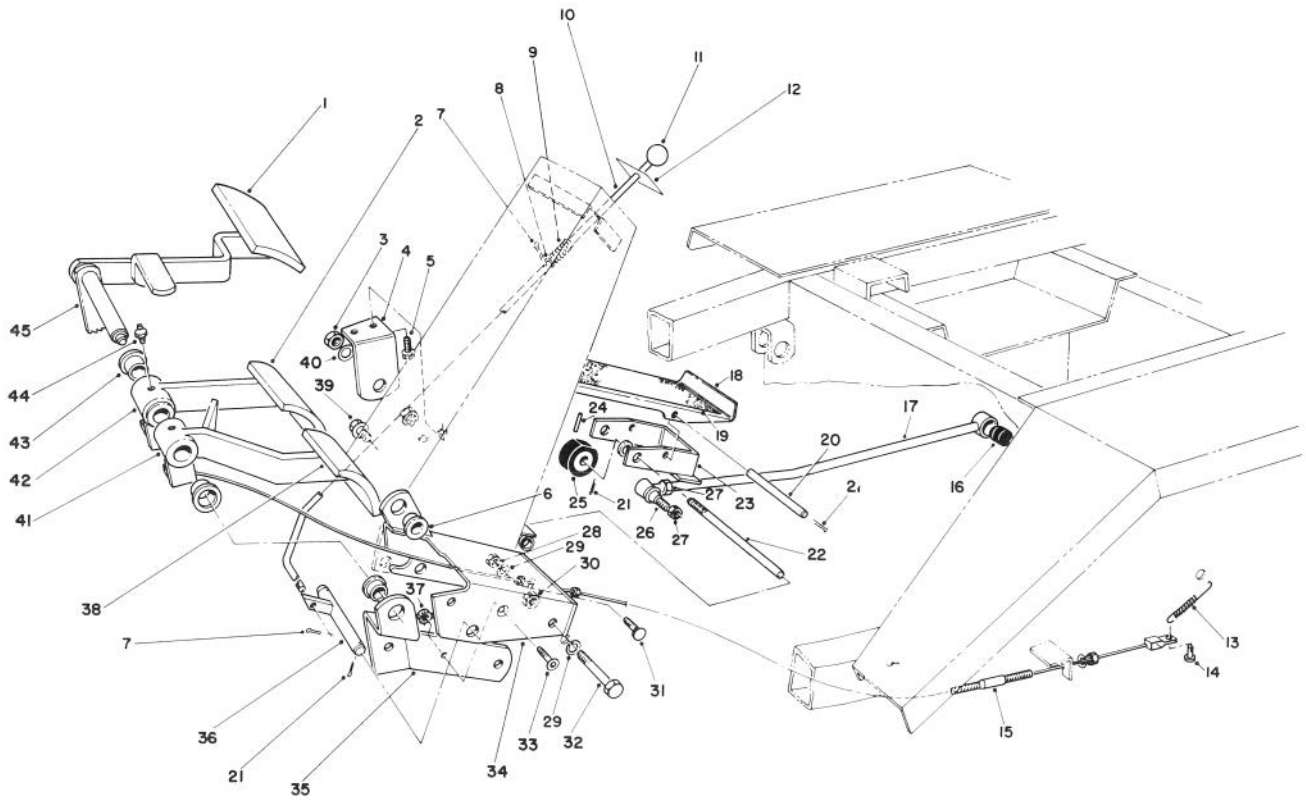


T-0415

## BRAKE PEDAL ASSEMBLY

Ref. No.	Part No.	Description	No. Used	Ref. No.	Part No.	Description	No. Used
1	7-3900	Pad - Brake	1	25	28-5220	Wheel - Friction	1
2	27-7580	Pad - Right Turn	1	26	21-0141	Socket Assembly R.H.	1
3	3218-5	Nut - Jam	2	27	3220-3	Nut - Jam	1
4	21-2850	Mount - R.H. Pedal	1	28	3217-7	Nut - Hex	2
5	11-0590	Screw - Hex. Hd. Tapping	2	29	3253-21	Washer - Lock	4
6	256-156	Bushing	5	30	32153-2	Nut - Lock	2
7	3272-5	Pin - Cotter	3	31	3231-21	Bolt - Carriage	2
8	3256-22	Washer - Flat	1	32	323-13	Screw - Cap, Hex. Hd.	2
9	3-3251	Spring - Compression	1	33	3274-47	Screw - Flat Hd. Socket	1
10	82-8670	Rod - Brake Latch	1	34	27-7590	Mount - Brake	1
11	233-17	Knob	1	35	27-9270	Mount - Brake Pivot Shaft	1
12	82-8930	Decal - Parking Brake	1	36	27-7640	Shaft - Brake Latch	1
13	3-7243	Spring - Extension	2	37	32149-2	Nut	1
14	283-58	Pin - Clevis	2	38	27-7570	Pad - Left Turn	1
15	21-3380	Cable - L.H. Brake	1	39	3234-11	Screw - Cap, Hex. Hd.	3
*	21-3370	Cable - R.H. Brake	1	40	3256-26	Washer - Flat	1
16	23-2270	Bushing - Rubber	1	41	27-7490	Pedal - L.H. Brake (Incl. Ref. #43)	1
17	23-2240	Rod - Pump Control	1	42	27-7510	Pedal - R.H. Brake (Incl. Ref. #43)	1
18	88-0530	Pedal - Traction	1	43	256-10	Bushing	4
19	88-1740	Pad - Rear Pedal	1	44	302-5	Fitting - Grease	2
20	88-1640	Pin - Traction Pedal	1	45	27-8550	Pedal - Parking Brake	1
21	3272-6	Pin - Cotter	6	46	3220-5	Nut - Jam	1
22	88-1650	Shaft - Traction Pedal	1	47	88-1730	Pad - Front Pedal	1
23	88-1670	Bracket - Pivot (Incl. Ref. #6)	1	48	88-1680	Bracket - Footrest	1
24	32121-16	Pin - Roll	1				

\*Not Illustrated



T-0415

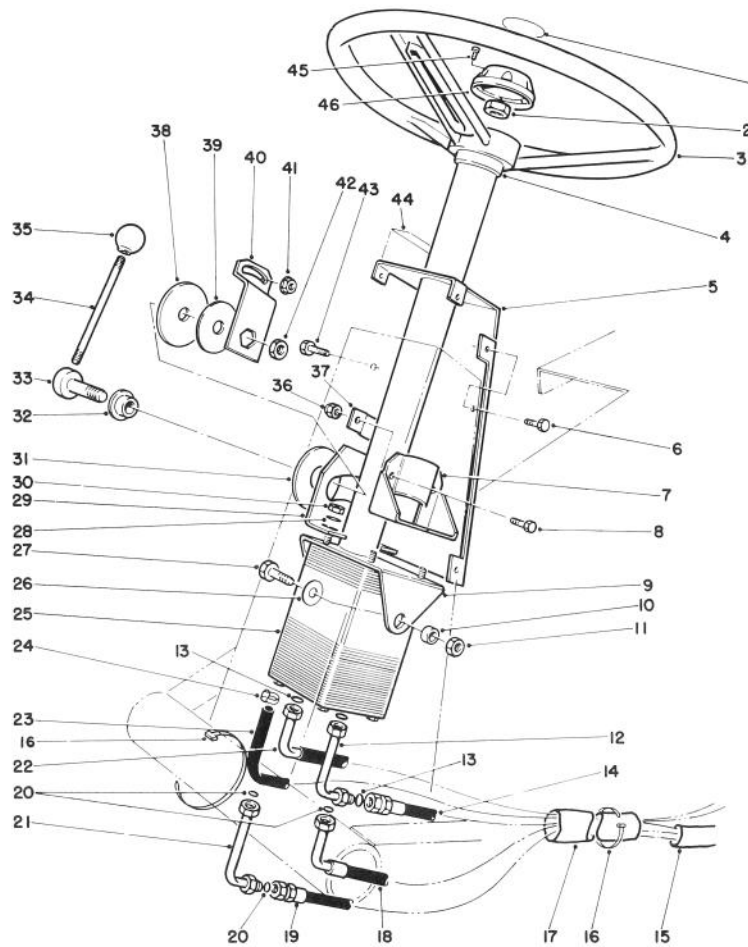
## BRAKE PEDAL ASSEMBLY (Continued)

Ref. No.	Part No.	Description	No. Used
49	88-0470	Tube - Pedal Spacer	1
50	88-1710	Footrest	1
51	88-1720	Pad - Footrest	1

Ref. No.	Part No.	Description	No. Used
52	3230-1	Bolt - Carriage	2
53	32128-25	Nut - Flange Lock	2

\*Not Illustrated



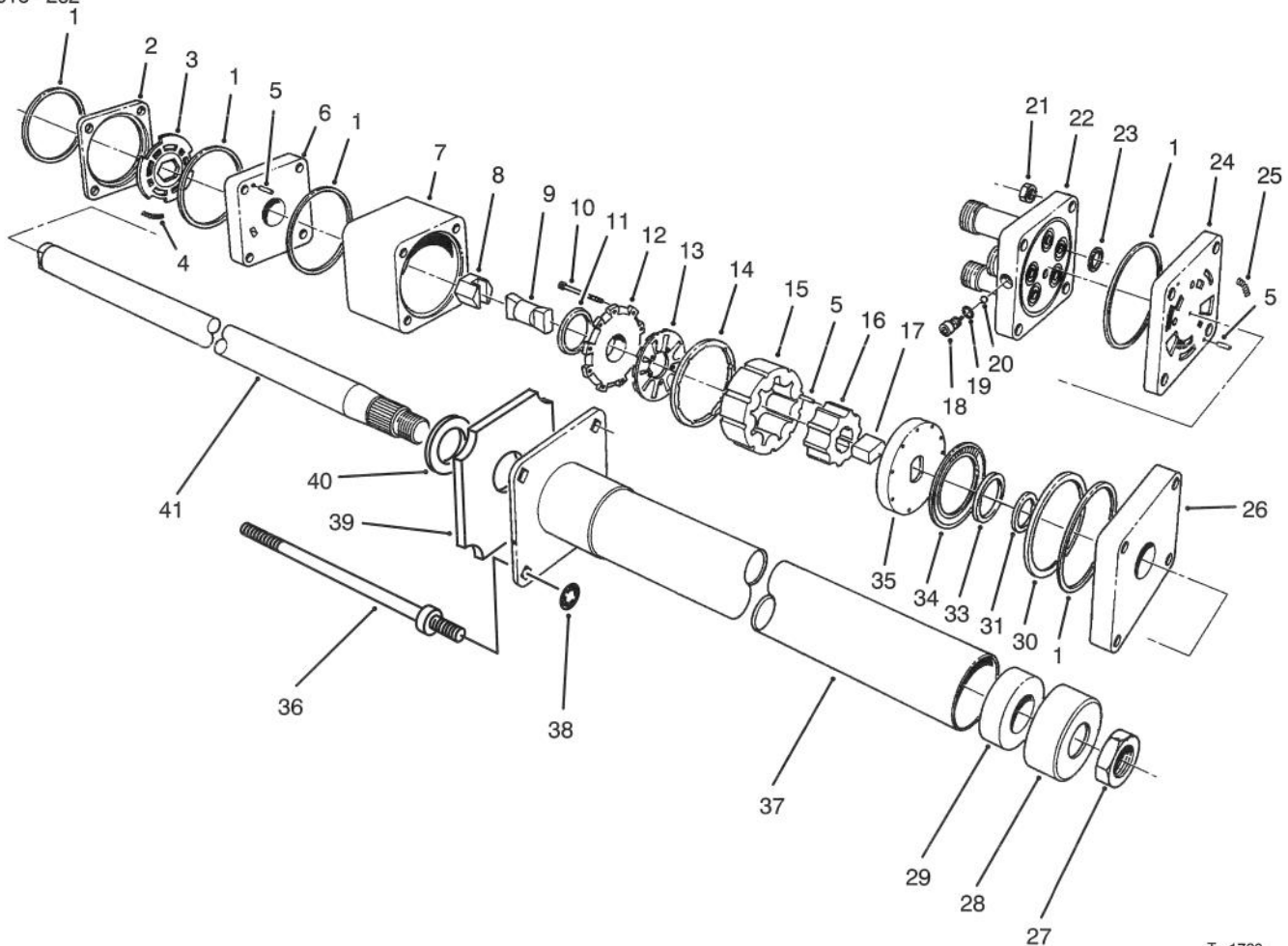


T-1187

## POWER STEERING ASSEMBLY

Ref. No.	Part No.	Description	No. Used	Ref. No.	Part No.	Description	No. Used
1	68-5370	Decal - Toro	1	24	2412-36	Clamp	2
2	66-9760	Nut - Hex.	1	25	92-7308	Valve - Steering, Power	1
3	75-0560	Steering Wheel Assembly (Incl. Ref. #45 & 46)	1	26	3256-46	Washer - Flat	2
4	21-9260	Cover - Dust	1	27	323-6	Screw - Cap, Hex. Hd.	2
5	82-8660	Cover - Tower	1	28	3256-3	Washer - Flat	4
6	32144-10	Screw - Hex. Thd. Form	6	29	80-2940	Plate - Pivot	1
7	67-8690	Support - Column	1	30	3296-20	Nut - Lock	4
8	3234-17	Screw - Cap, Hex. Hd.	2	31	31-0390	Disc - Friction	1
9	77-3120	Bracket - Mount, Column	1	32	80-2980	Boss - Pin	1
10	80-2960	Spacer - Tower	2	33	80-2970	Pin - Steering, Tilt	1
11	32153-2	Nut - Hex.	2	34	80-2890	Handle - Steering, Tilt	1
12	82-8760	Elbow	1	35	233-21	Knob - Handle	1
13	237-30	O-Ring	3	36	3296-29	Nut - Lock	2
14	63-8970	Hose - Trans. to Steering	1	37	82-8650	Clamp - Half	1
15	70-1390	Sleeve - Protective	1	38	82-9010	Disc - Friction	1
16	3290-379	Tie - Cable	3	39	80-2930	Washer	1
17	70-1380	Sleeve - Protective	1	40	80-2880	Bracket - Steering, Tilt	1
18	68-9730	Hose - Steering to Cylinder	1	41	32128-20	Nut - Flange	1
19	68-9720	Hose - Cylinder to Steering	1	42	3218-7	Nut - Jam	1
20	237-22	O-Ring	3	43	322-4	Screw - Cap, Hex. Hd.	1
21	82-8770	Elbow	1	44	82-8940	Decal - Steering, Tilt	1
22	63-8980	Hose - Aux. to Valve	1	45	32144-21	Screw	1
23	63-8990	Hose	1	46	68-5140	Cap - Wheel, Steering	1

3316-262



T-1760

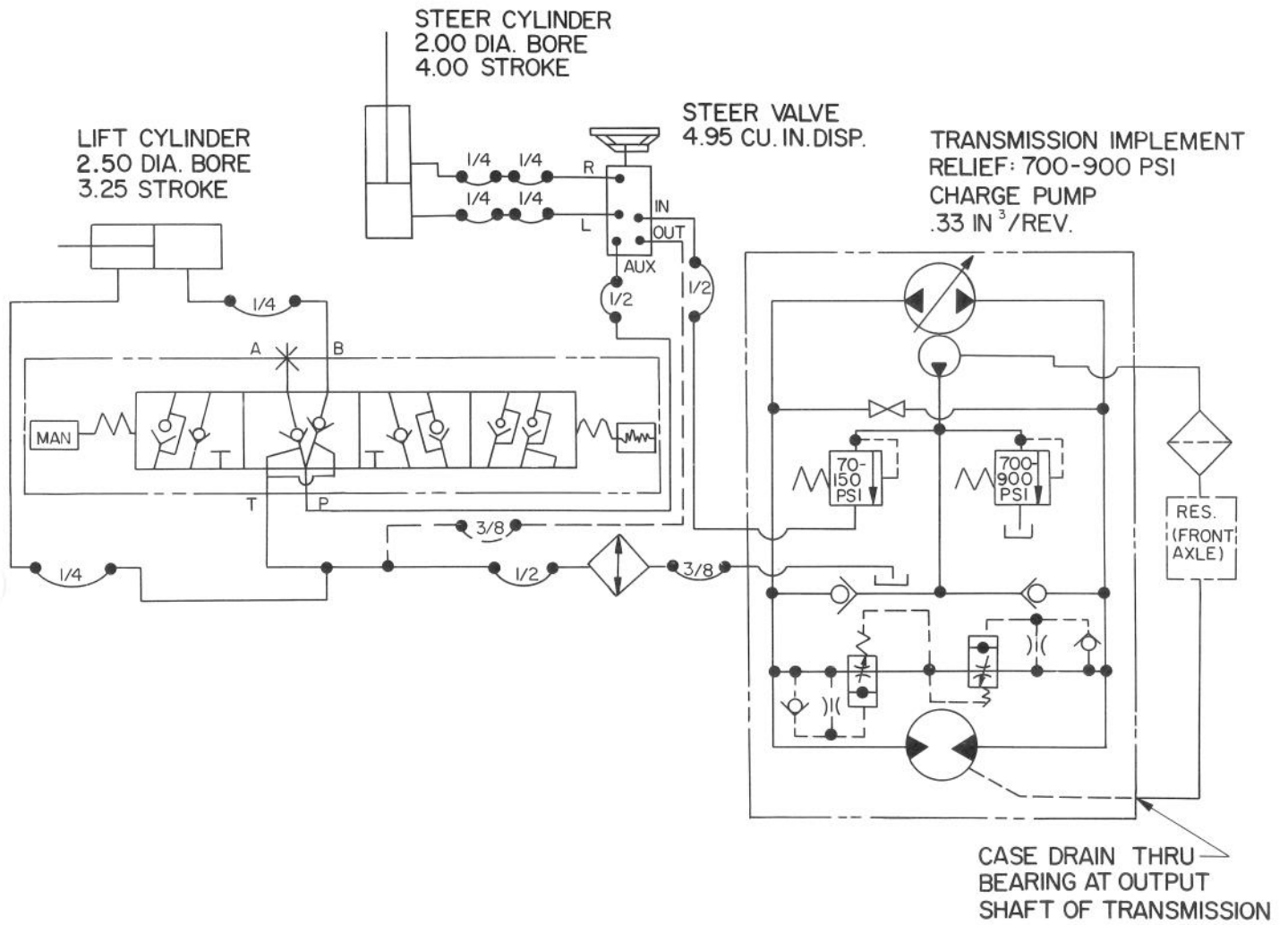
## POWER STEERING & VALVE ASSEMBLY NO.92-7308

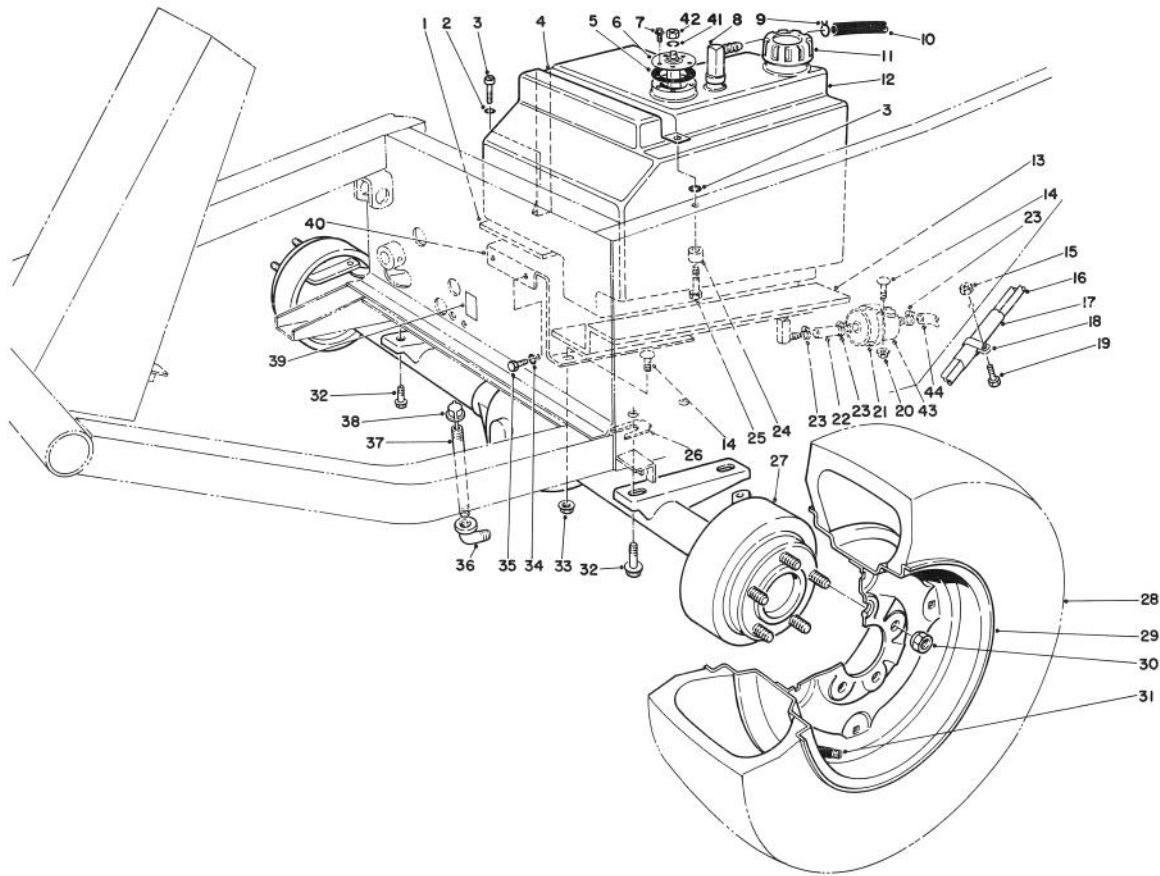
Ref. No.	Part No.	Description	No. Used
1		Ring - Seal	5
2		Ring - Valve	1
3		Plate - Valve	1
4		Spring	3
5		Pin - Alignment	9
6		Manifold - Isolation	1
7		Ring - Metering	1
8		Hex Drive Assy.	1
9		Link - Drive	1
10		Screw - Hex. Hd. Socket	11
11		Seal - Commutator	1
12		Cover - Commutator	1
13		Commutator	1
14		Ring - Commutator	1
15		Stator	1
16		Rotor	1
17		Spacer - Drive Link	1
18		Plug	1
19		O-Ring	1
20		Ball	1
21		Nut - Hex	4
22		Cover - Port	1
23		O-Ring	5
24		Manifold - Port	1
25		Spring	3

Ref. No.	Part No.	Description	No. Used
26		Plate - Upper Cover	1
27	3220-6	Nut	1
28	92-7315	Seal	1
29		Bearing	1
30		Spacer - Thrust Bearing	1
31		Spacer - Seal	1
33		Seal-Face	1
34		Bearing - Thrust	1
35		Plate - Drive	1
36	92-7310	Bolt - Special	4
37		Upper Cover & Jacket	1
38	92-7316	Nut - Push On	4
39	92-7317	Foam	1
40		Washer - Retaining	1
41		Shaft - Input	1
*	66-9970	Spring Kit (Incl. Ref. #4 & 25)	1
*	66-9980	Seal Kit (Incl. Ref. #1, 11, 19, 23 & 33)	1
*	66-9990	Needle Roller Kit (Incl. Ref. #5)	1
*	92-7314	Assembly - Column (Incl. Ref. #27-29 & 37-41)	1

\*Not Illustrated

# HYDRAULIC SCHEMATIC





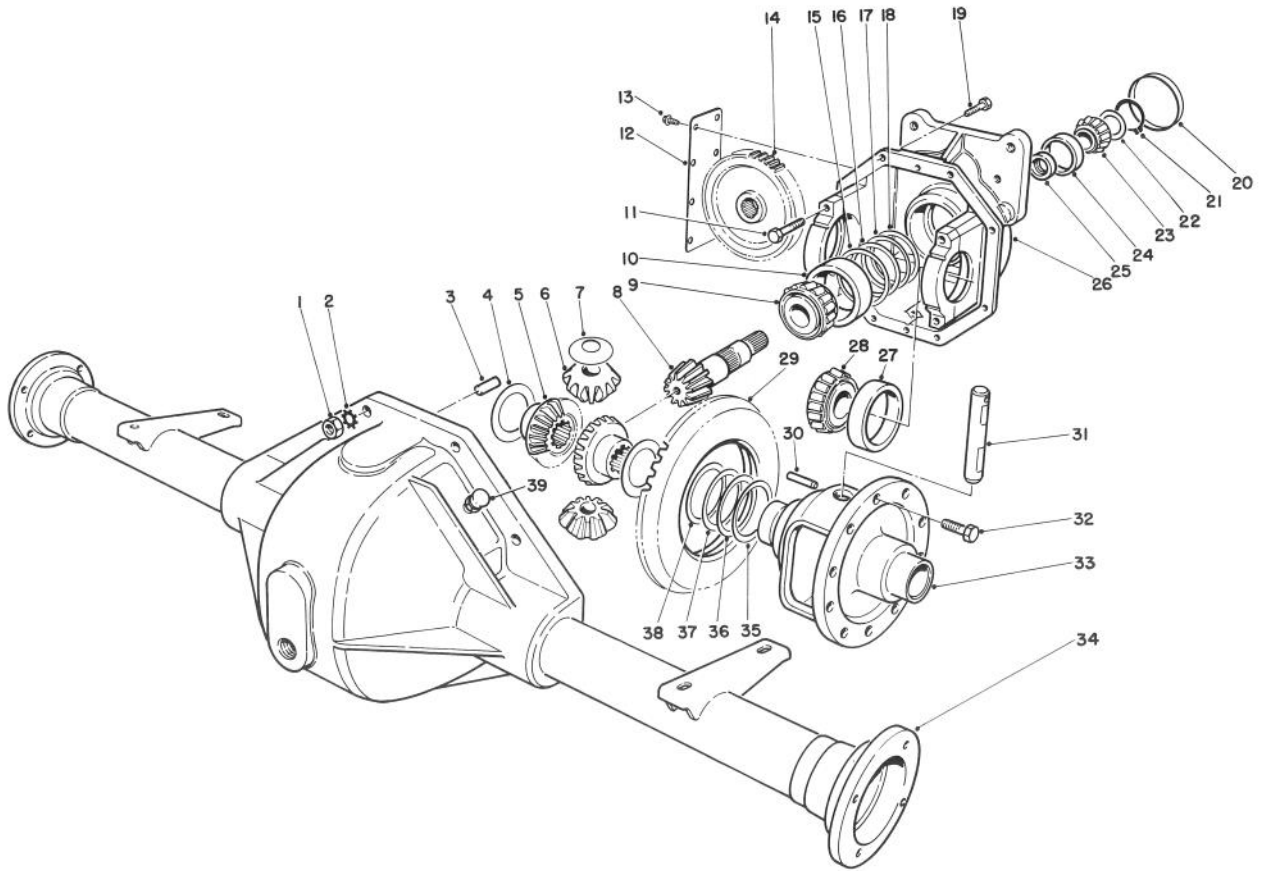
T-0918

## FRONT AXLE & FUEL TANK ASSEMBLY

Ref. No.	Part No.	Description	No. Used
1	21-3600	Foam - Support Tank	1
2	3253-3	Washer - Lock	2
3	32104-96	Screw - Cap, Hex Hd.	1
4	37-9550	Strap - Tank Fuel	1
5	62-7650	Gasket - Tank Fuel	1
6	62-6840	Sender - Fuel Level	1
7	32144-53	Screw - Thread Forming	5
8	353-536	Fitting - Tank Fuel	2
9	2412-6	Clamp	1
10	63-7630	Hose - Vent Fuel	1
11	55-3574	Cap - Tank Fuel	1
12	43-9110	Tank - Fuel (Incl. Ref. #8)	1
13	21-3610	Foam - Support Tank	1
14	3230-2	Bolt - Carriage	3
15	3296-20	Nut - Lock	2
16	68-9710	Hose - Steering Cylinder	2
17	56-7980	Sleeve - Protective	1
18	2412-39	R-Clamp	1
19	322-3	Screw - Cap, Hex Hd.	2
20	32128-20	Nut - Flange	1
21	2412-96	Clamp - R	1
22	92-1662	Hose - Fuel	1
23	2412-108	Clamp	3
24	22-7810	Spacer	1
25	321-6	Screw - Cap Hex Hd.	1
26	42-6080	Shim - Axle	A/R

Ref. No.	Part No.	Description	No. Used
27	86-9600	Front Axle Assembly	1
28	231-101	Tire	2
*	231-95	Tire - 23 x 10.5 x 12 (Optional)	2
29	217-117	Rim	2
*	217-116	Rim - 23 x 10.5 x 12 (Optional)	2
30	23-7270	Nut - Wheel	10
31	232-31	Stem - Valve	2
*	232-27	Stem - Valve - 23 x 10.5 x 12 (Optional)	2
32	32144-67	Screw - Thread Forming	4
33	32128-20	Nut - Flange	2
34	3253-21	Washer - Lock	2
35	32104-6	Screw - Self Tapping	2
36	2811-9	Elbow - Street	1
37	289-37	Nipple - Pipe	1
38	23-5180	Dipstick	1
39	53-4430	Decal - Oil	1
40	68-9760	Base - Tank Fuel	1
41	3253-17	Washer - Lock	1
42	3219-14	Nut	1
43	18-1520	Filter - Gas	1
44	92-1661	Hose - Fuel	1
*	62-7020	Wheel & Tire Assembly (23 x 10.5 x 12) (Optional)	2
*	231-90	Tube - Inner (Optional)	2

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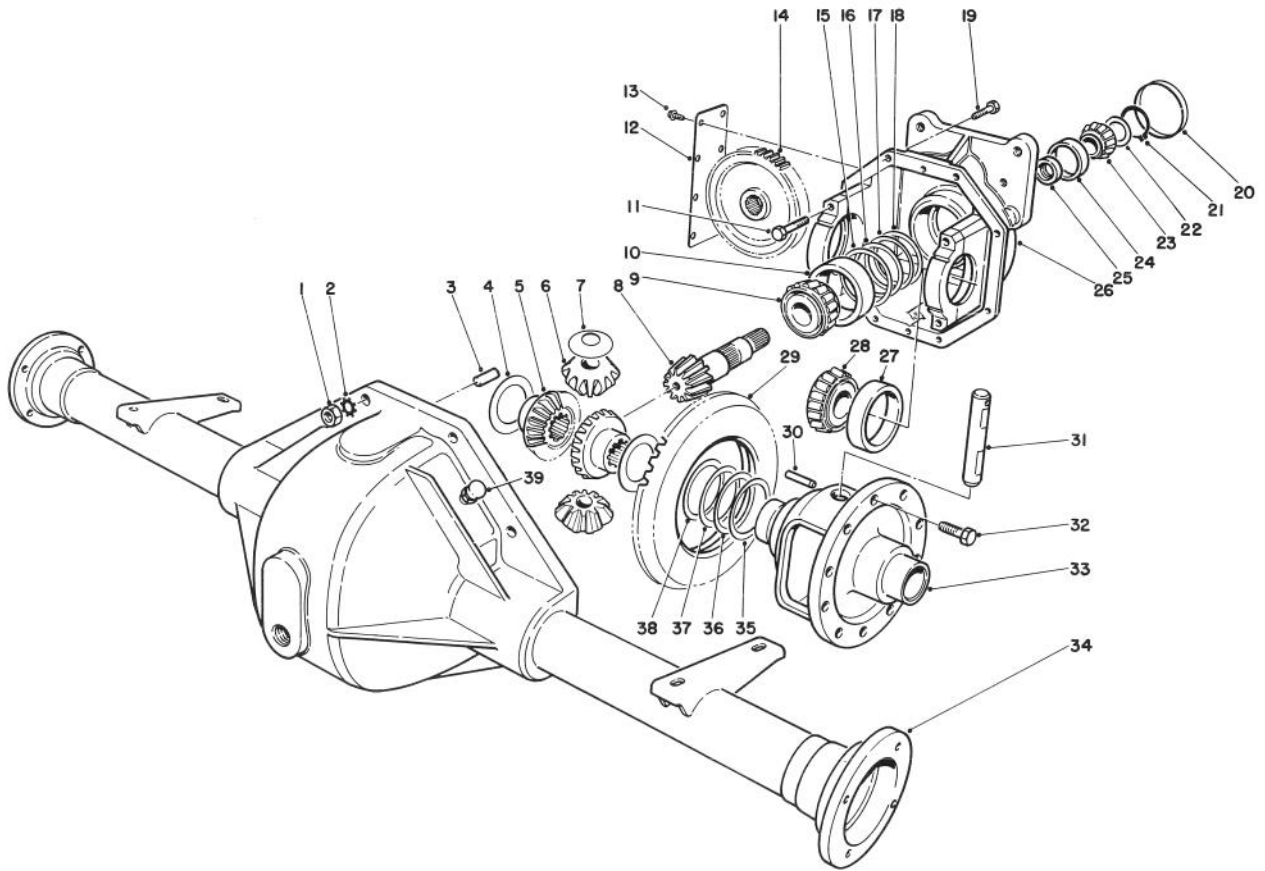
T-0919

## FRONT AXLE ASSEMBLY NO. 86-9600

Ref. No.	Part No.	Description	No. Used
1	3219-2	Nut	8
2	3255-8	Washer - Lock	8
3	21-8270	Dowel Pin	2
4	21-7720	Thrust Washer	2
5	24-8790	Differential Bevel Gear Side	2
6	21-7690	Pinion Gear	2
7	21-7730	Thrust Washer	2
8		Drive Pinion (Incl. Ref. #29)	1
9	43-6760	Roller Bearing Cone	1
10	43-6750	Roller Bearing Cup	1
11	92-1773	Screw - Cap, Hex. Hd.	4
12	21-7830	Gear Cover	1
13	12-5450	Thread Forming Screw	8
14	86-7230	Spur-Gear	1
15	43-6710	Adjustment Shim .003	A/R
16	43-6711	Adjustment Shim .005	A/R
17	43-6712	Adjustment Shim .010	A/R
18	43-6713	Adjustment Shim .030	A/R
19	3210-7	Screw - Cap, Hex. Hd.	8
20	21-7850	Cap - Plug	1
21	43-6550	Snap Ring	1
22	46-2210	Shim - Front Pinion Bearing (.031)	A/R
*	46-2211	Shim - Front Pinion Bearing (.033)	A/R

Ref. No.	Part No.	Description	No. Used
*22	46-2212	Shim - Front Pinion Bearing (.035)	A/R
*	46-2213	Shim - Front Pinion Bearing (.037)	A/R
*	46-2214	Shim - Front Pinion Bearing (.039)	A/R
*	46-2215	Shim - Front Pinion Bearing (.041)	A/R/
*	46-2216	Shim - Front Pinion Bearing (.043)	A/R
*	46-2220	Shim - Front Pinion Bearing (.045)	A/R
*	46-2221	Shim - Front Pinion Bearing (.047)	A/R
*	46-2222	Shim - Front Pinion Bearing (.049)	A/R
*	46-2223	Shim - Front Pinion Bearing (.051)	A/R
*	46-2224	Shim - Front Pinion Bearing (.053)	A/R
*	46-2225	Shim - Front Pinion Bearing (.055)	A/R
*	46-2226	Shim - Front Pinion Bearing (.057)	A/R
*	46-2410	Shim - Front Pinion Bearing (.062)	A/R

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T-0919

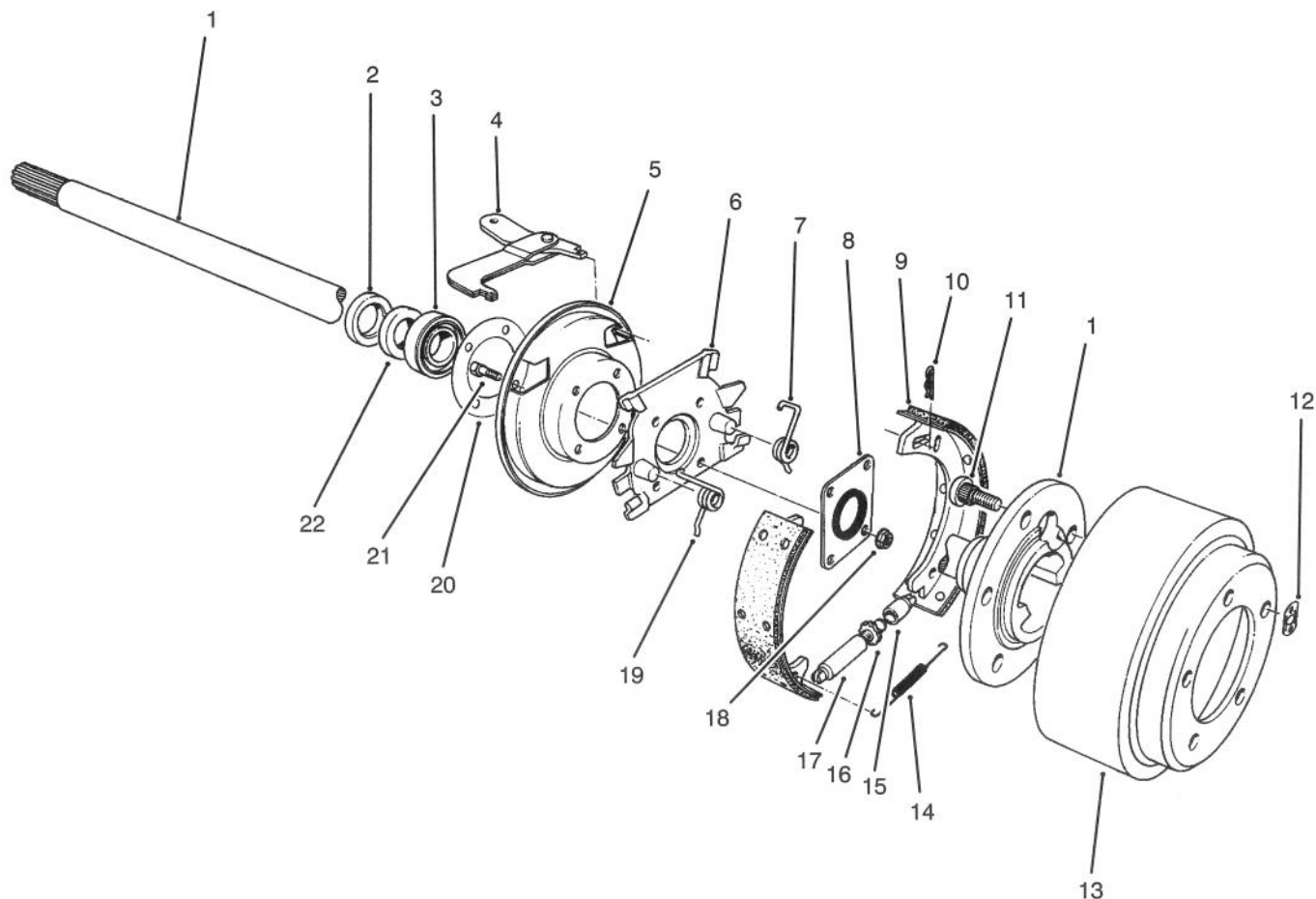
## FRONT AXLE ASSEMBLY NO. 86-9600 (Continued)

Ref. No.	Part No.	Description	No. Used
*22	46-2411	Shim - Front Pinion Bearing (.064)	A/R
*	46-2412	Shim - Front Pinion Bearing (.066)	A/R
*	46-2413	Shim - Front Pinion Bearing (.068)	A/R
*	46-2414	Shim - Front Pinion Bearing (.070)	A/R
*	46-2415	Shim - Front Pinion Bearing (.072)	A/R
*	46-2416	Shim - Front Pinion Bearing (.074)	A/R
*	46-2420	Shim - Front Pinion Bearing (.076)	A/R
*	46-2421	Shim - Front Pinion Bearing (.078)	A/R
*	46-2422	Shim - Front Pinion Bearing (.080)	A/R
*	46-2423	Shim - Front Pinion Bearing (.082)	A/R
*	46-2424	Shim - Front Pinion Bearing (.084)	A/R
*22	46-2425	Shim - Front Pinion Bearing (.086)	A/R
*	46-2426	Shim - Front Pinion Bearing (.088)	A/R

\*Not Illustrated

Ref. No.	Part No.	Description	No. Used
23	254-91	Bearing Cone	1
24	254-90	Bearing Cup	1
25	21-8020	Spacer - Pinion Bearing	1
26	86-9580	Upper Housing (Incl. Ref. #11)	1
27	254-66	Cup - Tapered Bearing	2
28	254-65	Cone - Tapered Bearing	2
29		Ring Gear	1
30	32121-15	Roll Pin	1
31	21-7700	Pinion Mate Shaft	1
32	21-7770	Drive Gear Screw	5
33	21-7670	Differential Case	1
34	43-6840	Lower Housing	1
35	21-8120	Adjustment Shim .030	A/R
36	21-8110	Adjustment Shim .010	A/R
37	21-8100	Adjustment Shim .005	A/R
38	21-8090	Adjustment Shim .003	A/R
39	72-9420	Vent Tube Assembly	1
*	92-4903	Assy. - Upper Hsg., 2WD (Incl. Ref. #4-33 & 35-38)	1
*	92-4848	Gear & Pinion Assembly (Incl. Ref. #8 & 29)	1

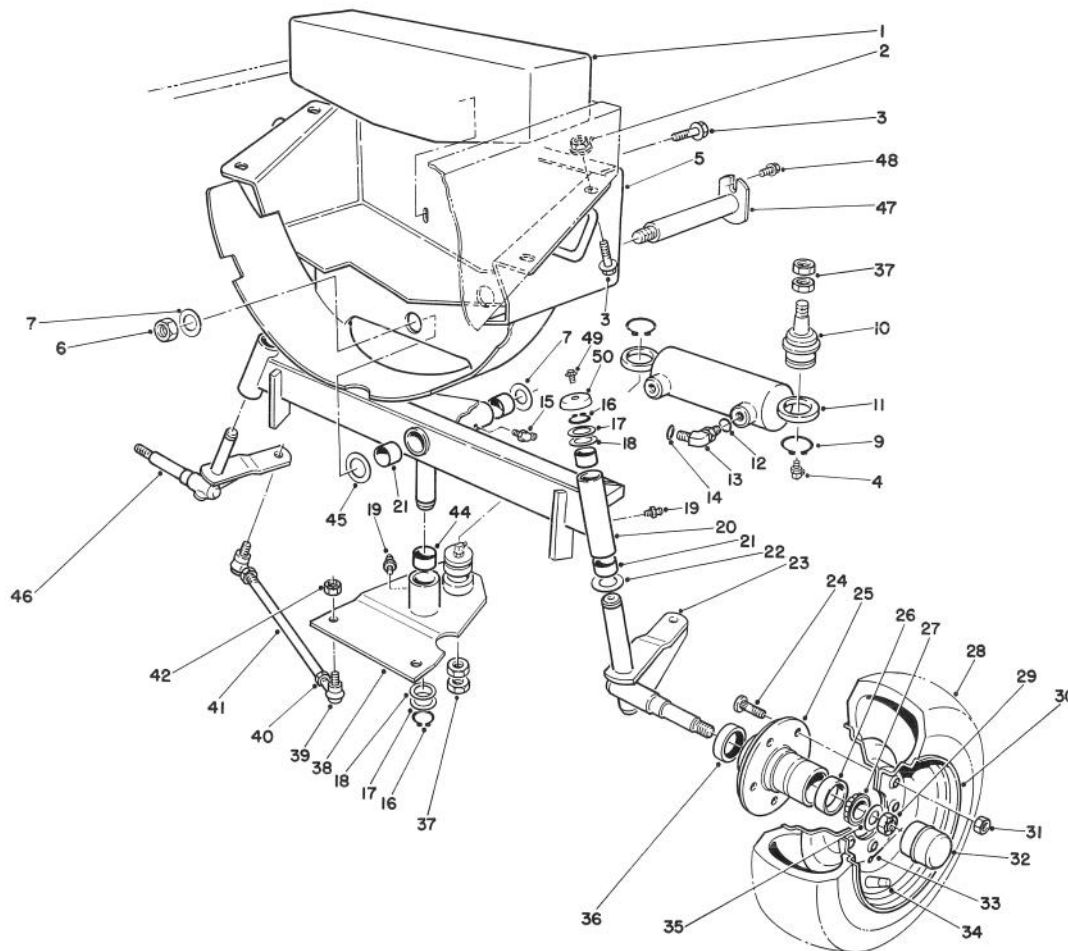




T-0421

## BRAKE ASSEMBLY

Ref. No.	Part No.	Description	No. Used	Ref. No.	Part No.	Description	No. Used
1	28-0650	Flanged Axle Shaft	2	13	28-0680	Brake Drum	2
2	92-1774	Oil Seal	2	14	21-9440	Spring - Adjusting Screw	2
3	21-8180	Bearing	2	15	21-9390	Socket - Adjusting Screw	2
4	24-9180	Strut & Lever Parking Brake	2	16	21-9370	Screw - Adjusting	2
5	21-9450	Dust Shield	2	17	21-9380	Nut - Pivot	2
6	43-6810	Torque - Spider	2	18	43-6800	Nut - Lock	8
7	21-9430	Spring - Shoe Return R.H.	2	19	21-9420	Spring - Shoe Return L.H.	2
8	28-0670	Oil Seal	2	20	92-8775	Gasket Kit - Liquid	2
9	84-8600	Shoe & Lining Assembly (Set of 4)	1	21	24-8840	Ring - Wheel Bearing	2
10	21-9460	Retainer - Brake Lever	4	22	28-0660	Screw - Cap, Hex. Hd.	8
11	242-34	Axle Flange Stud	10				
12	21-8360	Clip - Retaining	2				



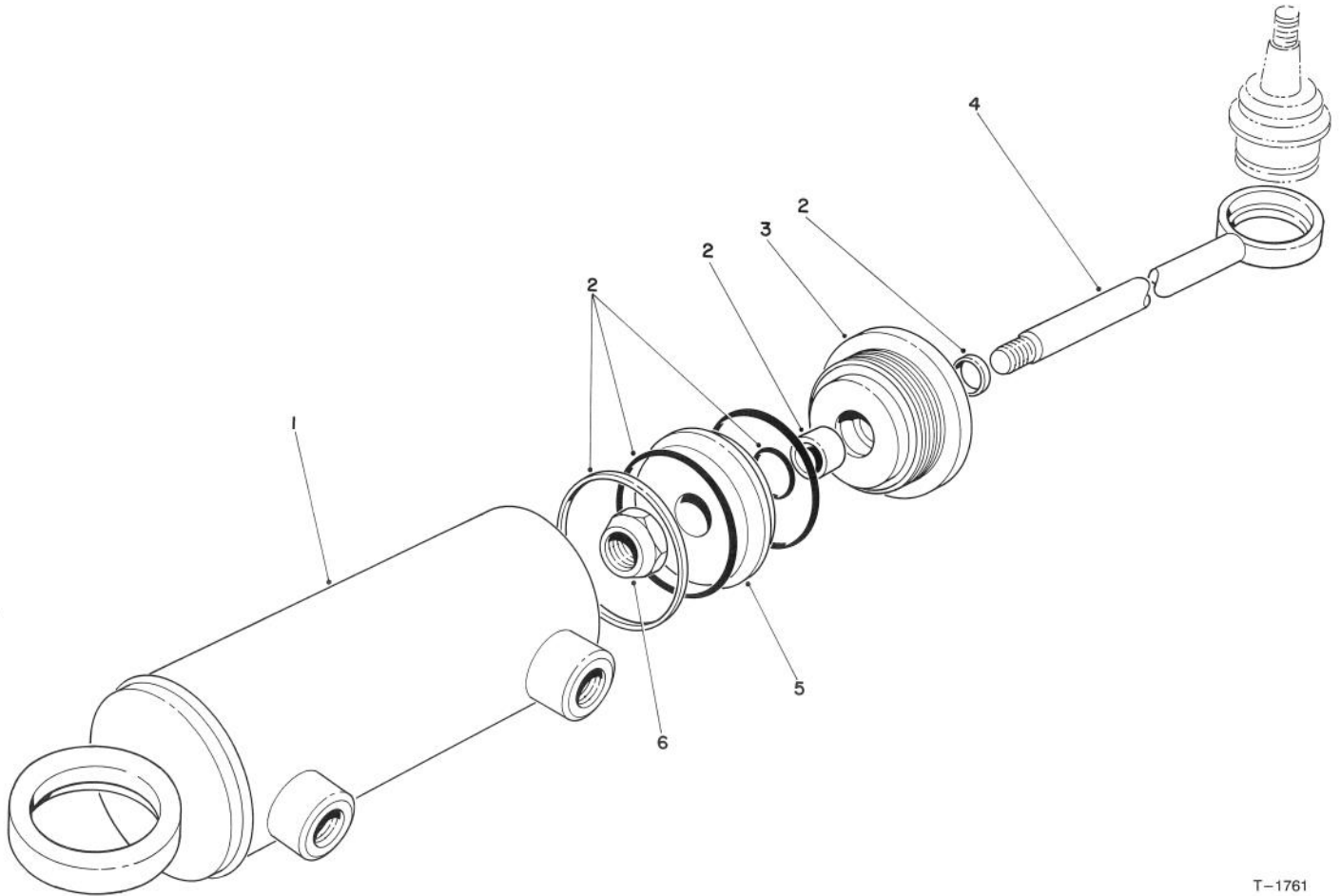
T-1759

## REAR WHEEL & AXLE ASSEMBLY

Ref. No.	Part No.	Description	No. Used
1	67-8960	Weight - Axle Rear	1
2	32128-23	Nut - Lock, Flange	4
3	3234-32	Screw - Hex Hd. Flange	6
4	302-40	Fitting - Grease 90°	2
5	92-7803	Support - Axle Rear	1
6	32146-20	Nut - Lock	1
7	71-4540	Washer - Thrust	2
9	32151-104	Ring - Retaining	2
10	92-5838	Ball Joint	2
11	92-7828	Cylinder - Hydraulic	1
12	237-78	O-Ring	1
13	340-54	Fitting - 45°	1
14	237-22	O-Ring	1
15	302-11	Fitting	1
16	32151-36	Ring - Retaining	3
17	5-1226	Washer	A/R
18	10-8110	Washer	3
19	302-5	Fitting	3
20	92-7816	Axle - Rear (Incl. Ref. #21)	1
21	67-1750	Bushing - Axle	6
22	256-121	Bushing - Thrust	2
23	92-7823	Spindle Assy. L.H.	1
24	10-6830	Stud - Drive	10
25	21-2820	Hub - Wheel (Incl. Ref. #24 & 26)	2
26	254-72	Cup - Bearing	4
27	254-94	Cone - Bearing	4

Ref. No.	Part No.	Description	No. Used
28	231-105	Tire	2
29	32136-5	Nut - Slotted	2
30	217-106	Wheel	2
31	242-50	Nut - Wheel	10
32	241-119	Cap - Dust	2
33	3272-13	Pin - Cotter	2
34	232-31	Stem - Valve w/Cap	2
35	3256-28	Washer - Flat	2
36	253-129	Closure	2
37	3220-6	Nut - Jam	4
38	92-7821	Pivot - Steering (Incl. Ref. #44)	1
39	21-0141	Socket Assembly R.H. (Incl. Ref. #42)	2
*	21-0151	Socket Assembly L.H. (Incl. Ref. #42)	2
40	3220-5	Nut - Jam R.H. Thread	2
*	3220-12	Nut - Jam L.H. Thread	2
41	21-2000	Rod - Tie	2
42	3220-3	Nut - Jam	8
44	256-242	Bushing	2
45	56-2460	Washer	A/R
46	92-7825	Spindle Assembly R.H.	1
47	92-7807	Pin - Axle Rear	1
48	3234-14	Screw - Self Tapping	1
49	3234-13	Screw	2
50	66-2990	Cup - Spindle	2

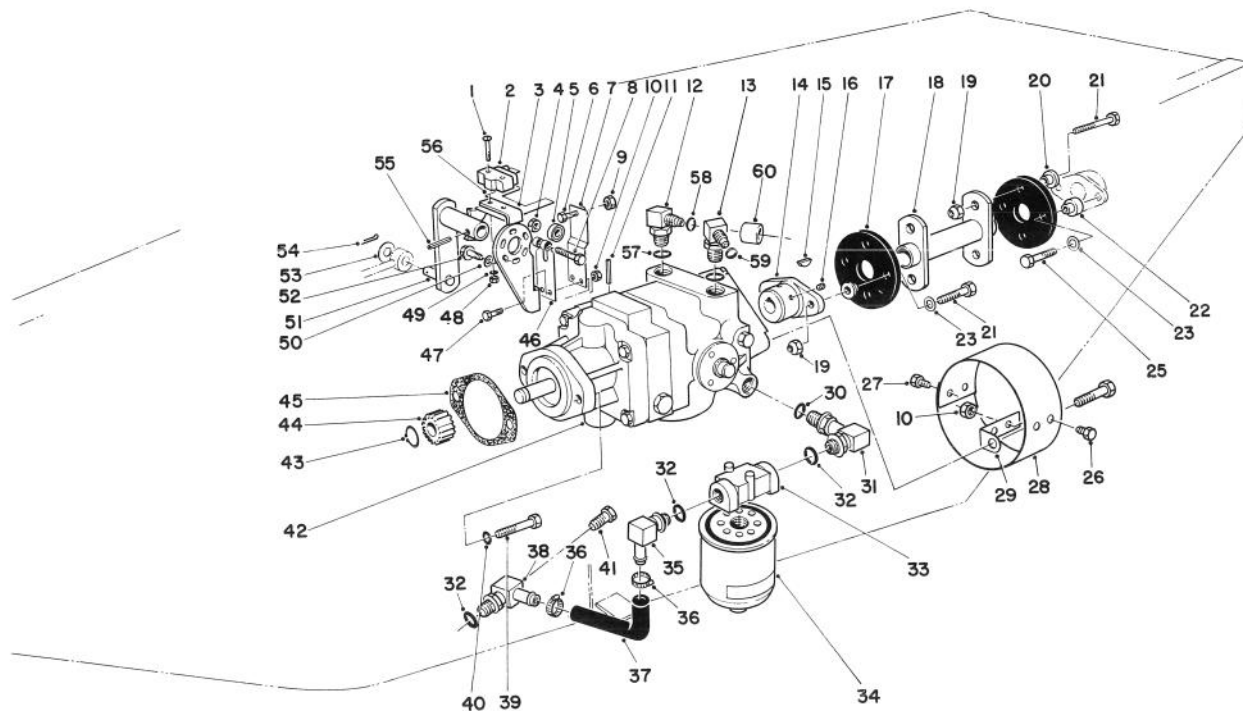
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T-1761

## HYDRAULIC STEERING CYLINDER

Ref. No.	Part No.	Description	No. Used	Ref. No.	Part No.	Description	No. Used
1		Tube Assembly	1	5	66-1940	Piston	1
2	66-1960	Seal Kit	1	6	66-1930	Nut - Lock	1
3	66-1950	Gland	1	*	92-7828	Cylinder - Hydraulic (Incl. Ref. #1-6)	1
4		Piston Rod Assembly	1				

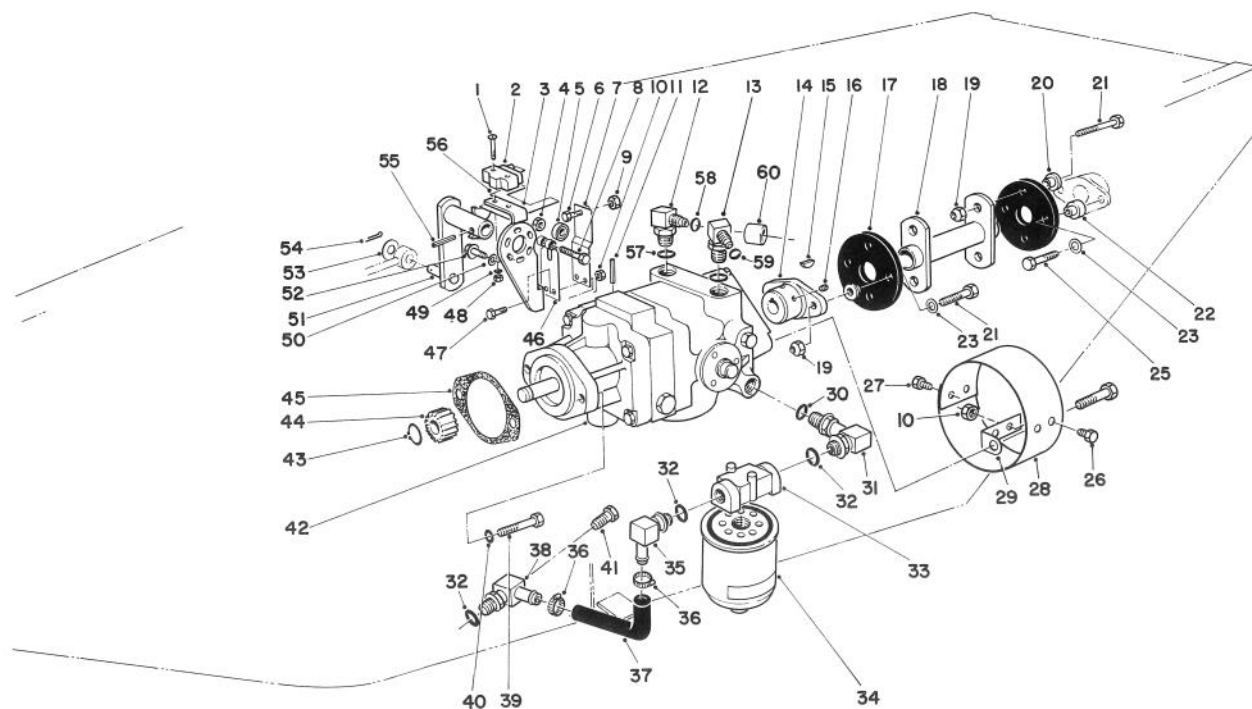


T-0424A

## HYDROSTATIC TRANSMISSION ASSEMBLY

Ref. No.	Part No.	Description	No. Used
1	3249-11	Screw - Round Hd. Mach.	2
2	29-6163	Micro Switch	1
3	29-6120	Pump Plate	1
4	3296-29	Nut - Lock	1
5	251-259	Ball Bearing	1
6	3210-7	Screw - Cap, Hex. Hd.	1
7	29-6170	Extended Leaf Spring	1
8	322-17	Screw - Cap, Hex. Hd.	1
9	3219-2	Nut - Hex	1
10	3296-42	Nut - Lock	6
11	32121-6	Roll Pin	1
12	340-77	Elbow	1
13	340-99	Elbow	1
14	33-4380	Pump Hub	1
15	3257-32	Woodruff Key	1
16	3241-5	Square Hd. Set Screw	2
17	44-2230	Rubber Coupling	2
18	46-6390	Drive Coupling	1
19	32152-1	Nut - Lock	8
20	27-6600	Spacer Rubber Coupling	6
21	322-6	Screw - Cap, Hex. Hd.	6
22	27-6590	Spacer Rubber Coupling	2
23	3256-3	Washer - Flat	4
25	322-8	Screw - Cap, Hex. Hd.	2
26	321-2	Screw - Cap, Hex. Hd.	2
27	321-4	Screw - Cap, Hex. Hd.	2

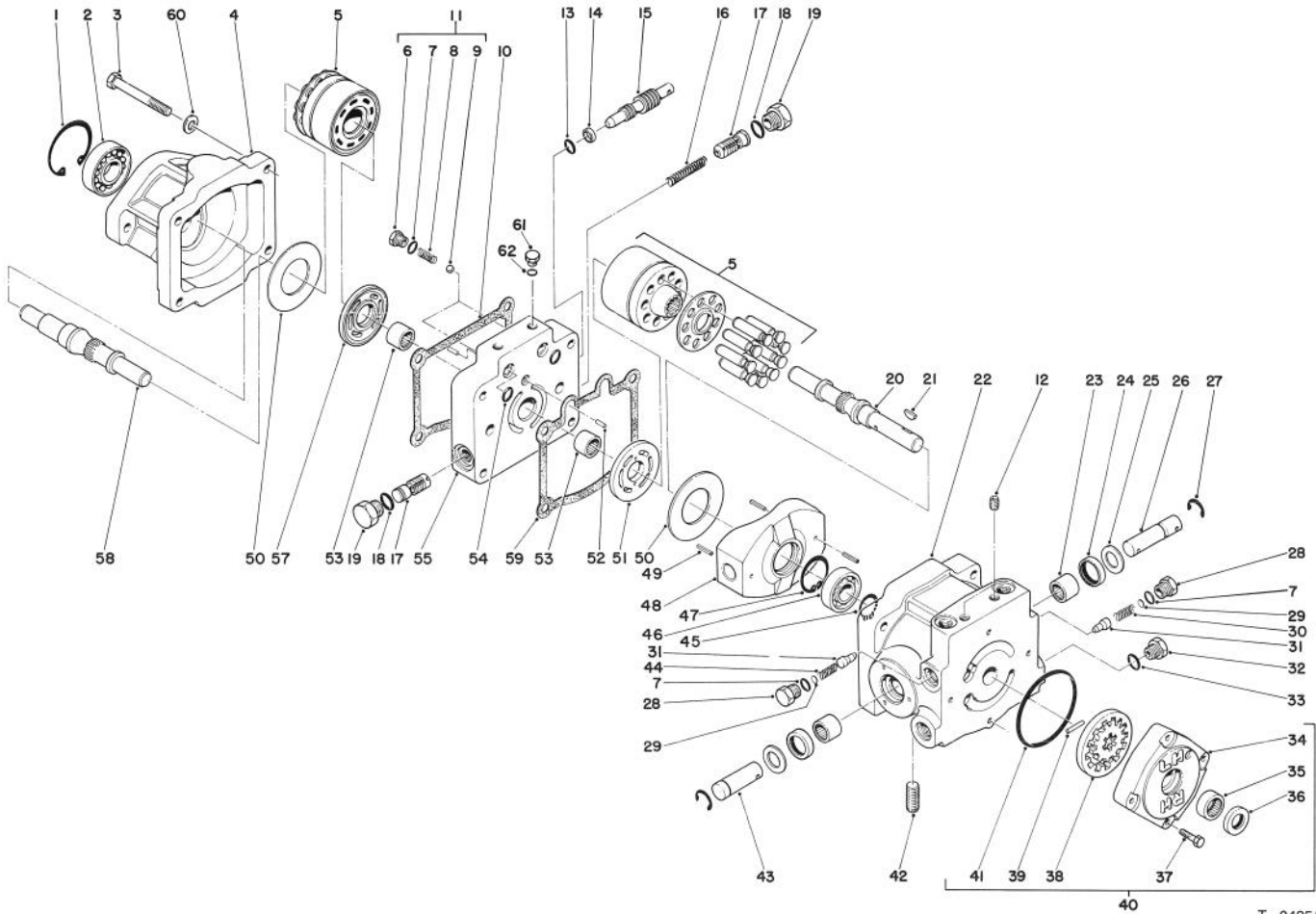
Ref. No.	Part No.	Description	No. Used
28	54-9300	Cover	1
29	54-9290	Bracket	2
30	237-80	O-Ring	1
31	68-8660	Elbow	1
32	237-81	O-Ring	3
33	68-8990	Head - Filter	1
34	23-9740	Oil Filter	1
35	353-987	Elbow	1
36	2412-34	Clamp - Hose	2
37	68-9650	Hose - Axle	1
38	70-2620	Elbow - 90°	1
39	323-7	Screw - Cap, Hex. Hd.	2
40	3253-21	Washer - Lock	2
41	353-508	Plug - Drain	1
42	92-8947	Transmission - Inline	1
43	32120-72	Ring - Retaining External	1
44	86-7220	Gear - Transmission Output	1
45	41-8760	Gasket - Transmission	1
46	29-6150	Leaf Spring	1
47	321-6	Screw - Cap, Hex. Hd.	2
48	3217-16	Nut	2
49	3254-9	Washer - Lock	2
50	3255-7	Washer - Lock	3
51	28-9570	Pump Lever	1
52	11-9760	Self Tapping Screw	3
53	3256-6	Washer - Flat	1



T-0424A

## HYDROSTATIC TRANSMISSION ASSEMBLY (Continued)

Ref. No.	Part No.	Description	No. Used	Ref. No.	Part No.	Description	No. Used
54	3272-10	Cotter Pin	1	58	237-22	O-Ring	1
55	32121-24	Roll Pin	1	59	237-30	O-Ring	1
56	46-8810	Stop - Leaf Spring	1	60	38-3400	Guard - Rubber	1
57	237-42	O-Ring	2				



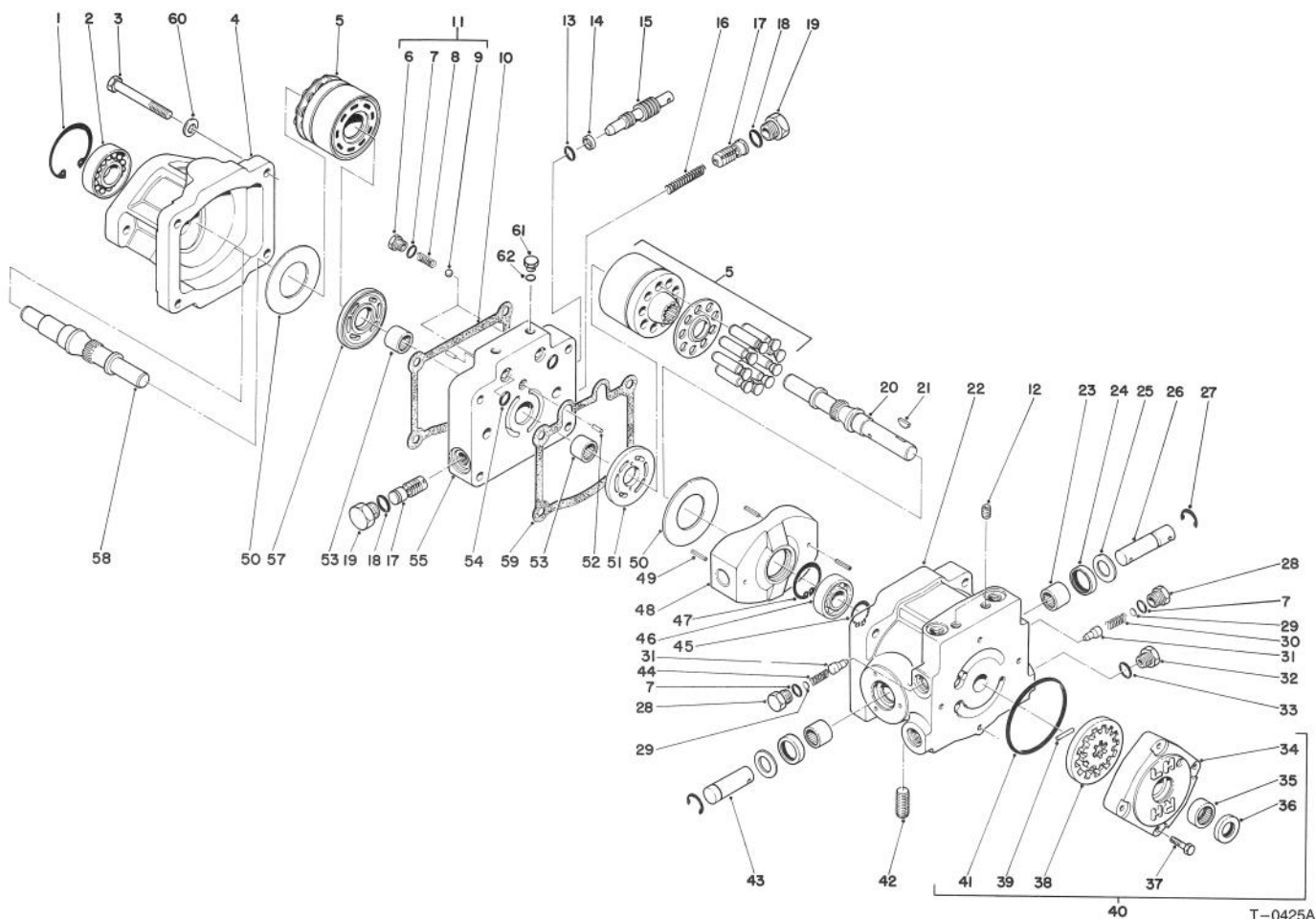
T-0425A

## TRANSMISSION ASSEMBLY NO. 92-8947

Ref. No.	Part No.	Description	No. Used
1	32120-8	Retaining Ring	1
2	72-3750	Roller Bearing	1
3	323-13	Screw - Cap, Hex. Hd.	4
4	67-9080	Motor Housing	1
5	48-1800	Cylinder Block Kit	2
6	25-2650	Check Valve Plug	2
7	237-86	O-Ring	4
8	25-2640	Valve Spring	2
9	25-2490	Ball	2
10	67-9100	Gasket	1
11	25-3180	Check Valve Kit (Inc. Ref. #6-9)	2
12	285-17	Pipe Plug	2
13	237-22	O-Ring	1
14	25-2630	Back Up Ring	1
15	25-2620	By Pass Valve	1
16	25-2610	Accel. Valve Spring	1
17	25-2410	Accel. Valve Assembly	2
18	76-1900	O-Ring	2
19	353-550	Plug - Hex. Hd.	2
20	67-8020	Pump Shaft	1
21	3257-32	Woodruff Key	1
22	54-7890	Pump Housing	1
23	252-82	Needle Bearing	2
24	25-3210	Lip Seal	2
25	25-2510	Washer - Flat	2

Ref. No.	Part No.	Description	No. Used
26	25-2580	Trunion Shaft	1
27	32151-46	Retaining Ring	2
28	25-2460	Plug - Hex. Hd.	2
29	25-2470	Shim Pack	2
30	25-2570	Valve Spring	1
31	83-7260	Relief Valve Cone	2
32	353-551	Hex. Hd. Plug	1
33	237-80	O-Ring	1
34	25-2550	Charge Pump Housing	1
35	67-8050	Needle Bearing	1
36	67-8060	Lip Seal	1
37	322-4	Screw - Cap, Hex. Hd.	4
38	25-2680	Gerotor Assembly	1
39	25-2530	Headless Straight Pin	1
40	25-3190	Charge Pump (Incl. Ref. #34-39 & 41)	1
41	237-95	O-Ring	1
42	67-9090	Plug	1
43	25-2500	Trunion Shaft	1
44	25-2480	Valve Spring	1
45	32120-15	Retaining Ring	1
46	251-8	Ball Bearing	1
47	32120-11	Retaining Ring	1
48	25-2450	Variable Swashplate	1
49	32121-91	Coil Spring Pin	3
50	25-2380	Thrust Plate	2

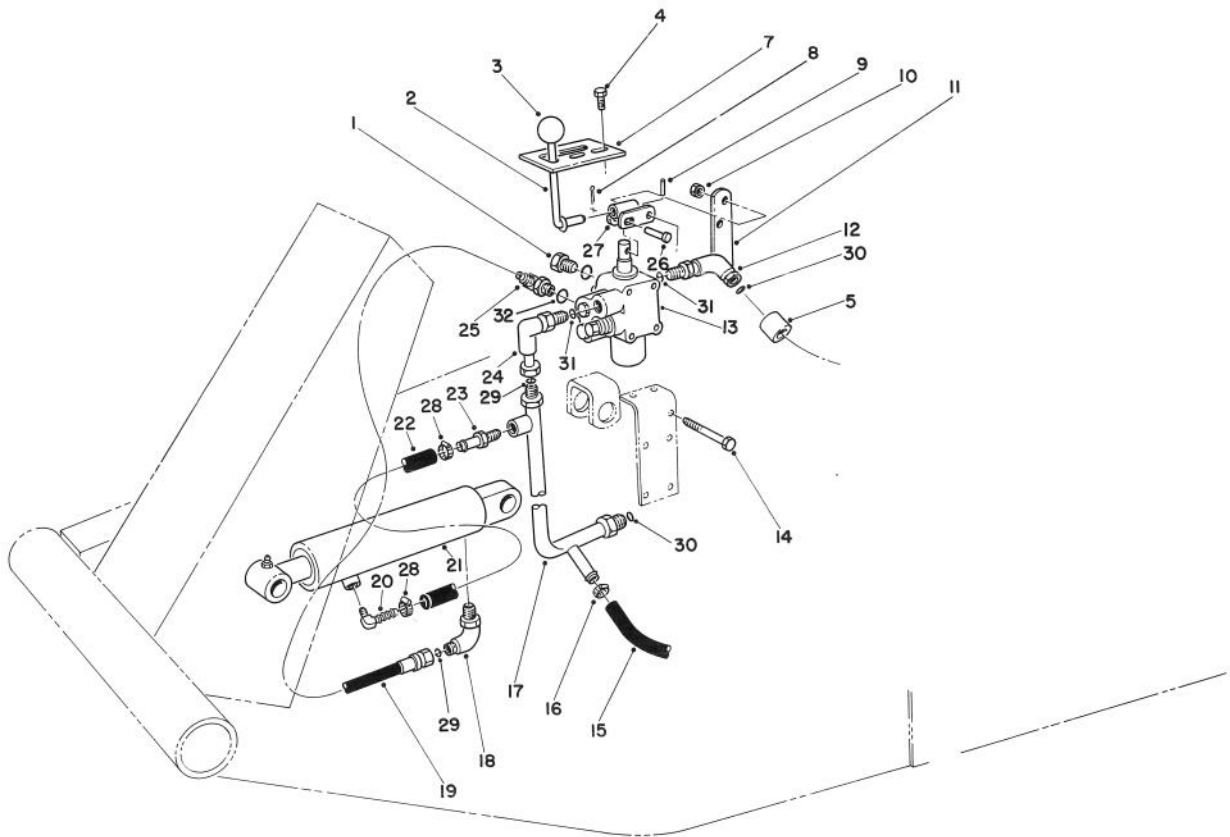




## TRANSMISSION ASSEMBLY NO. 92-8947 (Continued)

Ref. No.	Part No.	Description	No. Used
51	25-2440	Pump Valve Plate	1
52	25-2430	Dowel Pin	2
53	46-8400	Needle Bearing	2
54	62-4290	O-Ring	2
55	92-8918	Center Section	1
57	25-2390	Motor Valve Plate	1

Ref. No.	Part No.	Description	No. Used
58	46-8410	Motor Shaft	1
59	25-2400	Gasket	1
60	74-9510	Washer	4
61	92-8776	Plug (Incl. Ref. #62)	2
62	92-8777	O-Ring	2



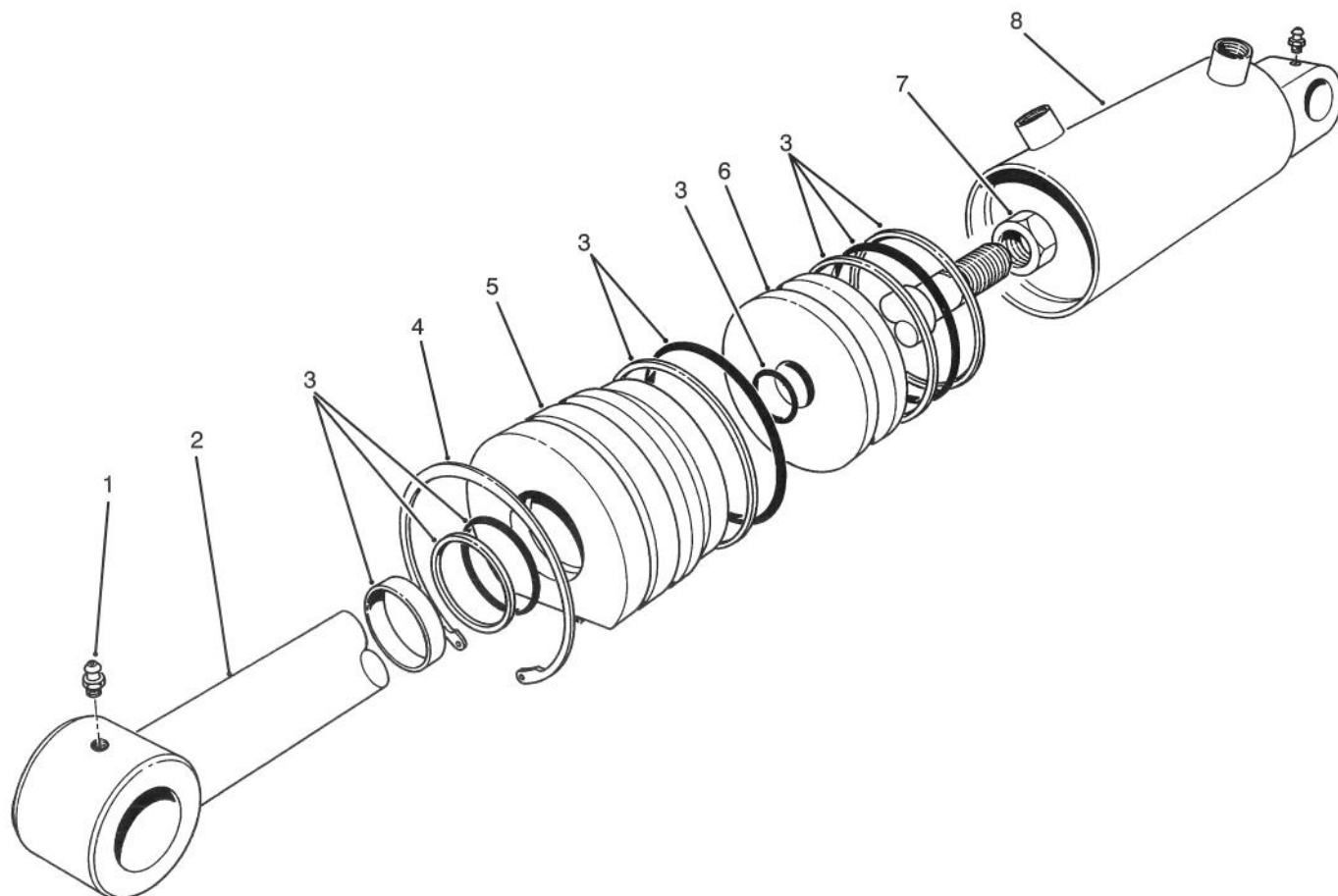
T-0426A

## VALVE & CYLINDER ASSEMBLY

Ref. No.	Part No.	Description	No. Used
1	353-512	Plug	1
2	21-8620	Lever Valve	1
3	233-21	Knob	1
4	32144-10	Screw - Self Tapping	2
5	38-3400	Guard - Rubber	1
7	21-8640	Latch Valve Lever	1
8	3272-6	Cotter Pin	1
9	32121-73	Pin Slotted Spring	1
10	3296-42	Nut - Lock	5
11	21-9010	Pivot Mount - Valve Lever	1
12	340-99	Fitting - 90° Elbow	1
13	43-1710	Valve Assembly	1
14	321-23	Screw - Cap, Hex. Hd.	5
15	63-8990	Hose	1
16	2412-36	Clamp - Hose	1
17	63-9260	Manifold - Valve	1
18	340-112	Elbow 90°	1

Ref. No.	Part No.	Description	No. Used
19	92-7833	Hose - Valve to Cylinder	1
20	304-75	Fitting - 90° Barb	1
21	62-4250	Cylinder - Hydraulic	1
*	66-1250	Cylinder - Hydraulic (Optional)	
22	92-7834	Hose	1
23	304-73	Fitting - Straight Barb	1
24	340-110	Elbow - 90°	1
25	340-97	Fitting - 90°	1
26	283-17	Pin	1
27	21-8590	Link - Valve Lever	1
28	2412-108	Clamp Hose	2
29	237-22	O-Ring	2
30	237-30	O-Ring	2
31	237-42	O-Ring	2
32	237-78	O-Ring	2

\*Not Illustrated



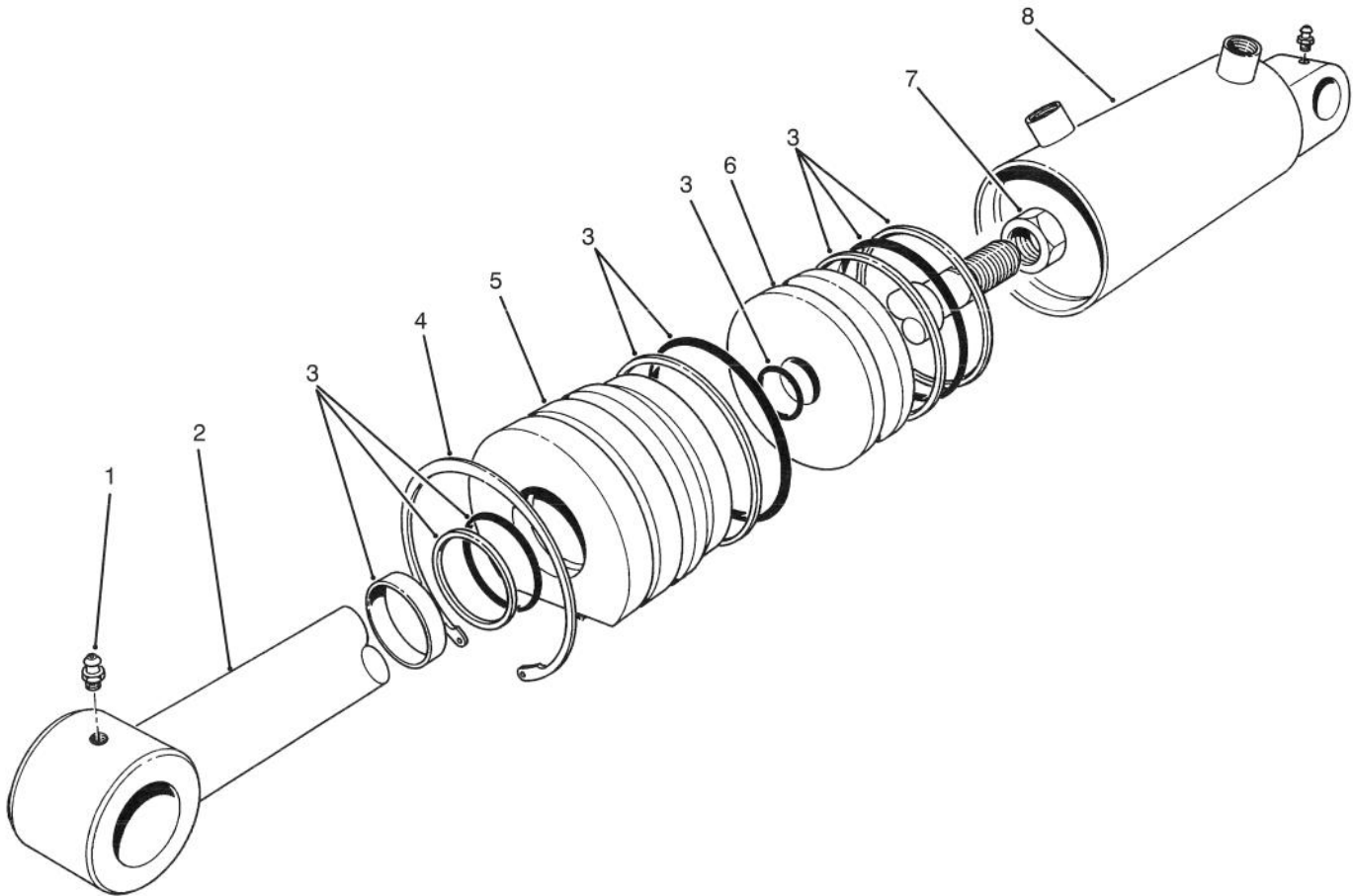
T-0527

## HYDRAULIC LIFT CYLINDER ASSEMBLY NO. 62-4250 (2-1/2" Bore)

Ref. No.	Part No.	Description	No. Used
1	302-55	Fitting - Grease	2
2	61-4980	Shaft - w/Clevis	1
3	61-4960	Repair Kit	1
4	61-4990	Ring - Retaining	1

Ref. No.	Part No.	Description	No. Used
5	60-9780	Head	1
6	60-9770	Piston	1
7	60-9760	Nut	1
*8		Barrel	1

\*Not available separately.



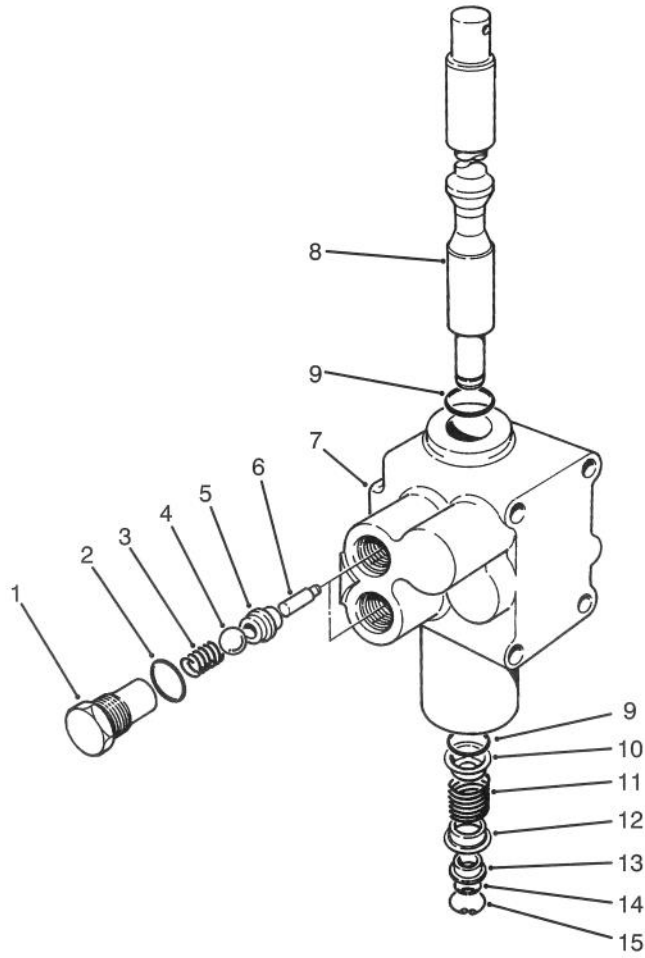
T-0527

## HYDRAULIC LIFT CYLINDER ASSEMBLY NO. 66-1250 (3" Bore)

Ref. No.	Part No.	Description	No. Used
1	302-55	Grease Fitting	2
2	67-5480	Shaft	1
3	67-5500	Repair Kit	1
4	67-5470	Ring - Retaining	1

Ref. No.	Part No.	Description	No. Used
5	67-5460	Head	1
6	67-5450	Piston	1
7	60-9760	Nut - Hex	1
*8		Barrel	1

\*Not available separately.

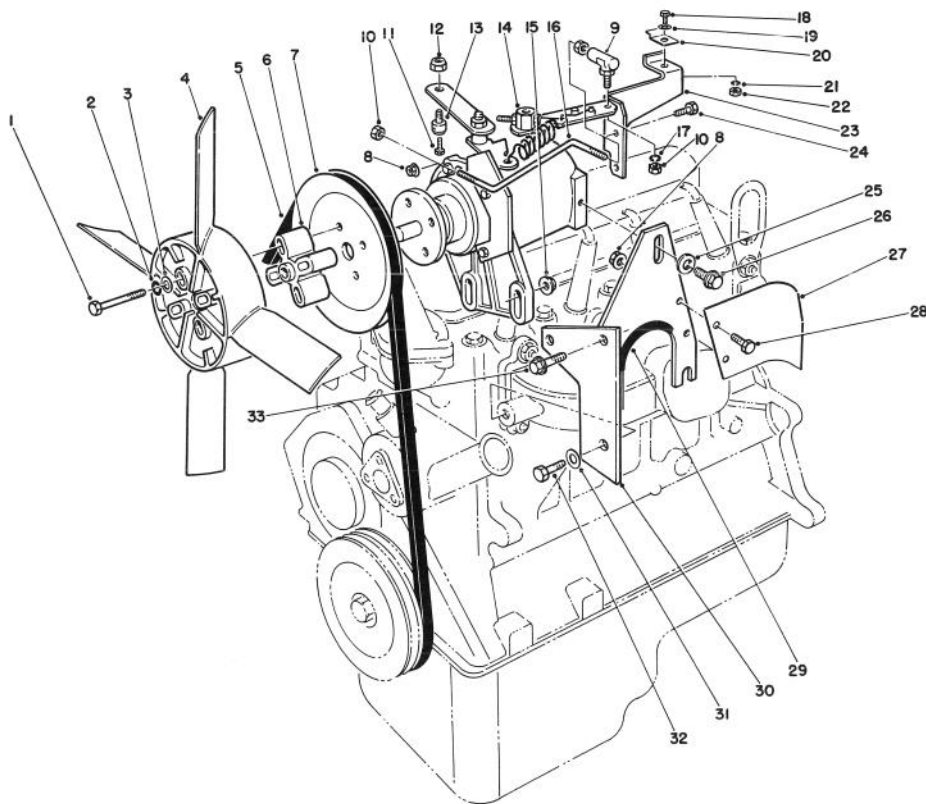


T-0428

### CONTROL VALVE ASSEMBLY NO. 43-1710

Ref. No.	Part No.	Description	No. Used
1	22-8330	Plug	2
2	237-42	O-Ring	2
3	22-8340	Spring	2
4	22-8350	Ball	2
5	22-8370	Seat - Check Valve	2
6	22-8360	Pin - Cam	2
7	43-1730	Body	1
8	22-8420	Spool	1

Ref. No.	Part No.	Description	No. Used
9	22-8500	O-Ring	2
10	22-8380	Spring Retainer	1
11	22-8410	Spring	1
12	22-8390	Spring Retainer	1
13	22-8400	Spacer Float	1
14	22-8480	Spring Ring Spool	1
15	22-8490	Snap Ring	1



T-0921

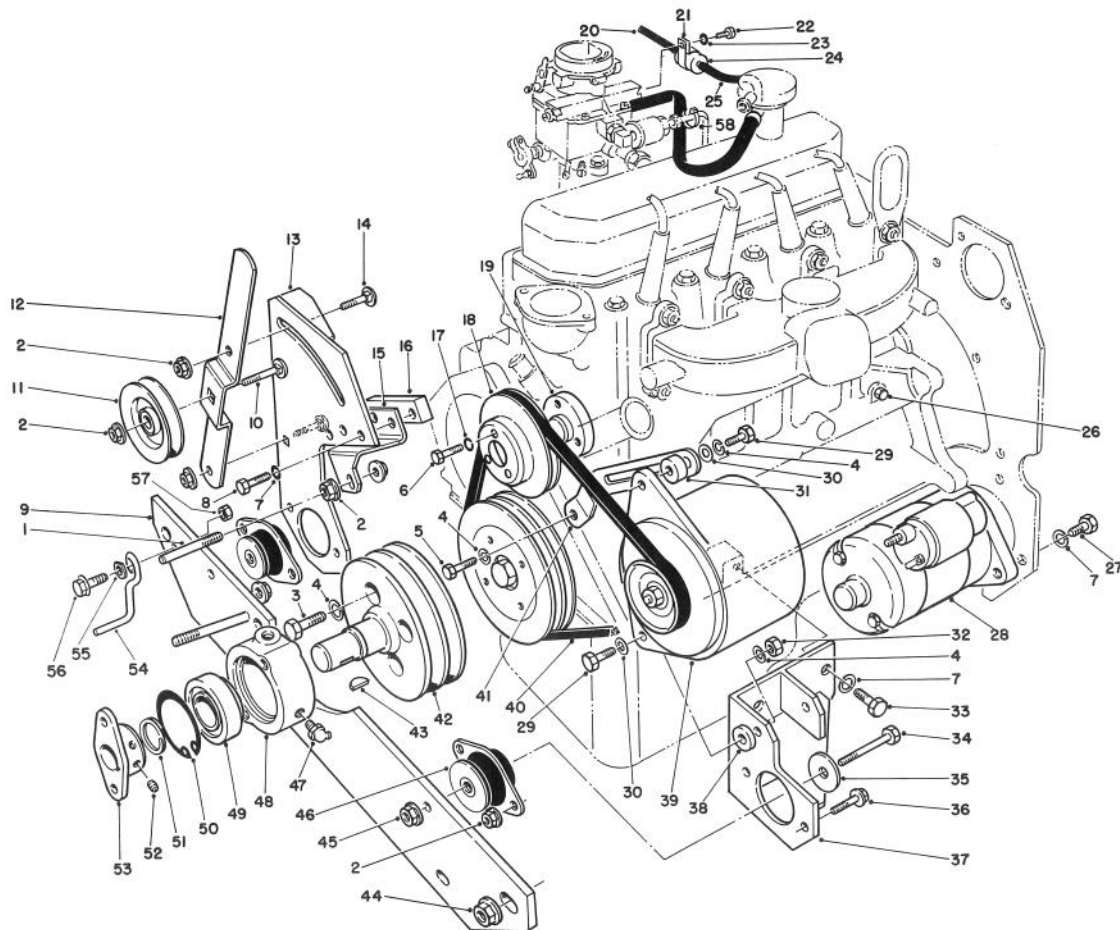
## ENGINE ASSEMBLY

Ref. No.	Part No.	Description	No. Used	Ref. No.	Part No.	Description	No. Used
1	322-12	Screw - Cap, Hex Hd.	4	18	321-4	Screw - Cap, Hex Hd.	1
2	3253-4	Washer - Lock	4	19	3256-22	Washer - Flat	1
3	3256-2	Washer - Flat	4	20	2412-31	Clamp - Cable	1
†4	E7JL-8600-AA	Fan	1	21	3253-3	Washer - Lock	1
5	67-8510	Belt - Fan	1	22	3217-5	Nut	1
6	67-8390	Spacer - Fan	1	23	67-8240	Bracket - Throttle	1
7	67-8380	Pulley - Fan	1	24	321-6	Screw - Cap, Hex Hd.	2
8	32128-33	Nut - Lock, Flange	4	25	3256-56	Washer - Flat	1
9	21-5640	Joint - Ball	1	26	3234-5	Screw - Lock, Flange Hd.	1
10	3219-14	Nut - Hex	3	27	67-8920	Shield - Heat	1
11	25-8640	Screw - Machine	1	28	321-39	Screw - Cap, Hex Hd.	2
12	3296-20	Nut - Lock	1	29	70-2040	Guard - Trim	1
13	43-3780	Swivel - Cable Throttle	1	30	67-9150	Support - Governor	1
14	67-8360	Governor	1	31	42-9780	Washer - Flat	1
15	3290-357	Nut - Lock, Flange	2	32	48-7710	Screw - Cap, Hex Hd.	1
16	67-8250	Rod - Throttle	1	33	3234-11	Screw - Lock, Flange Hd.	2
17	3253-12	Washer - Lock	1				

\*Not Illustrated

†Obtain from your local Ford Power Products Dealer.



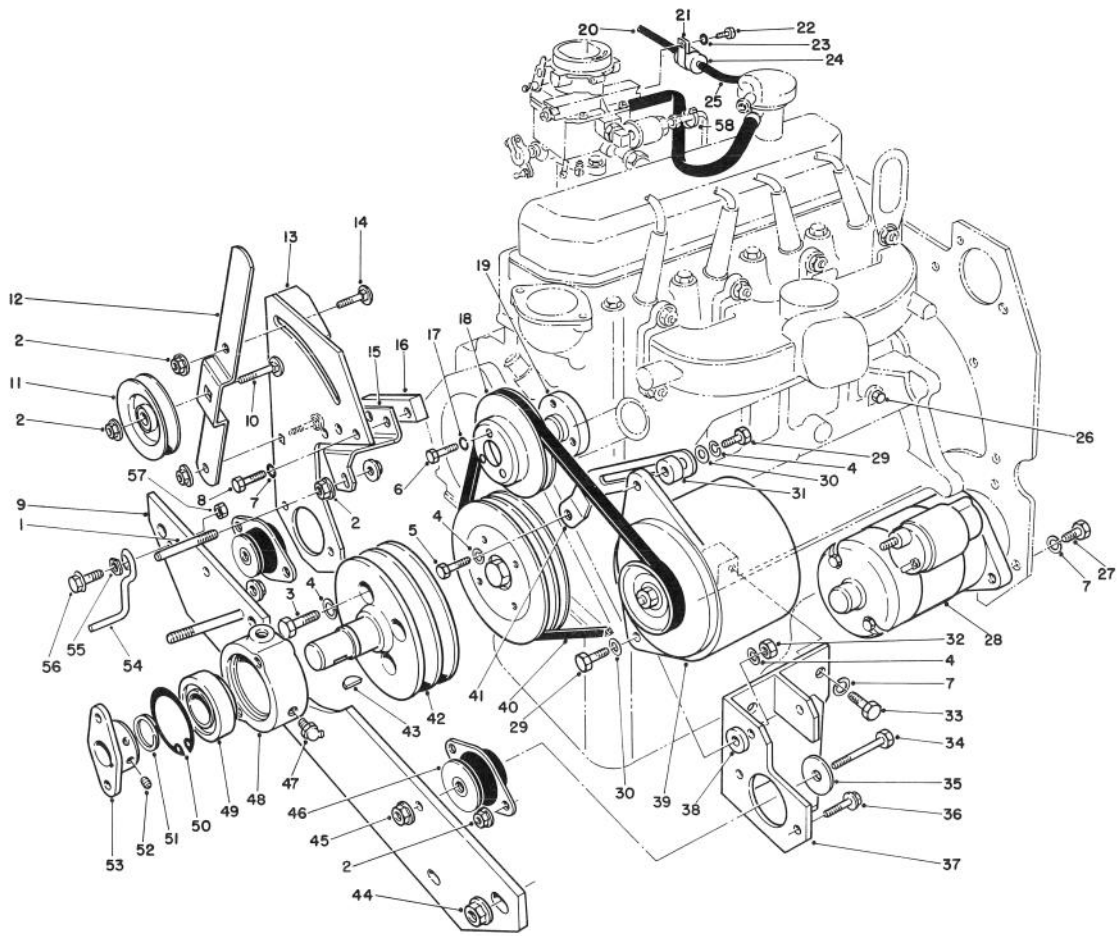


T-0922

## ENGINE ASSEMBLY

Ref. No.	Part No.	Description	No. Used	Ref. No.	Part No.	Description	No. Used
1	21-1820	Stud - Retainer Belt	3	†26	353055-S7	Plug - Water Drain	1
2	3290-357	Nut - Lock, Flange	12	27	48-9470	Screw - Metric	3
3	42-9500	Screw - Metric	4	†28	D8RZ-11002-A	Starter	1
4	42-9850	Washer - Lock	8	29	42-9530	Screw - Metric	3
5	48-7730	Screw - Metric	1	30	42-9780	Washer - Flat	4
6	43-2600	Screw - Metric	3	31	67-9010	Spacer - Alternator	1
7	42-9600	Washer - Lock	8	32	48-7930	Nut Metric	2
8	48-7800	Screw - Metric	3	33	48-7780	Screw - Metric	2
9	75-9900	Support - Engine Front	1	34	324-12	Screw - Cap Hex. Hd.	2
10	3231-28	Bolt - Carriage	1	35	53-9480	Washer - Snubber	2
11	63-8140	Pulley - Idler	1	36	3234-11	Screw - Flange Lock	4
12	67-8890	Arm - Idler	1	37	67-8260	Mount - Engine Front L.H.	1
13	67-8310	Mount - Engine Front R.H.	1	38	67-8900	Spacer - Alternator	1
14	3231-22	Bolt - Carriage	2	†39	86AB-10300-AB	Alternator	1
15	67-8350	Bracket - Guide Belt	1	40	67-8520	Belt - Alternator	1
16	67-8340	Bar - Spacer	1	†41	89BF-10145-AB	Arm Adjust Alternator	1
17	43-5930	Washer - Lock	3	42	67-8460	Pulley - Engine	1
†18		Pulley - Water Pump	1	43	3257-33	Key - Woodruff	1
19	67-8910	Spacer - Pulley	1	44	32128-23	Nut - Lock, Flange	2
20	70-1920	Hose - Vacuum	1	45	32128-37	Nut - Lock, Flange	2
†21	384007-5	Clamp - Valve	1	46	53-9680	Mount - Engine	2
22	3250-29	Screw - Pan Hd.	1	47	302-10	Fitting - Grease	1
23	3256-21	Washer - Flat	1	48	43-3720	Collar Bearing	1
†24	D4FZ-9C369-A	Fuel Separator	1	49	251-252	Bearing	1
25	70-1910	Hose - Vac. Advance	1	50	32120-22	Ring - Retaining Int.	1

†Obtain from your local Ford Power Products Dealer.

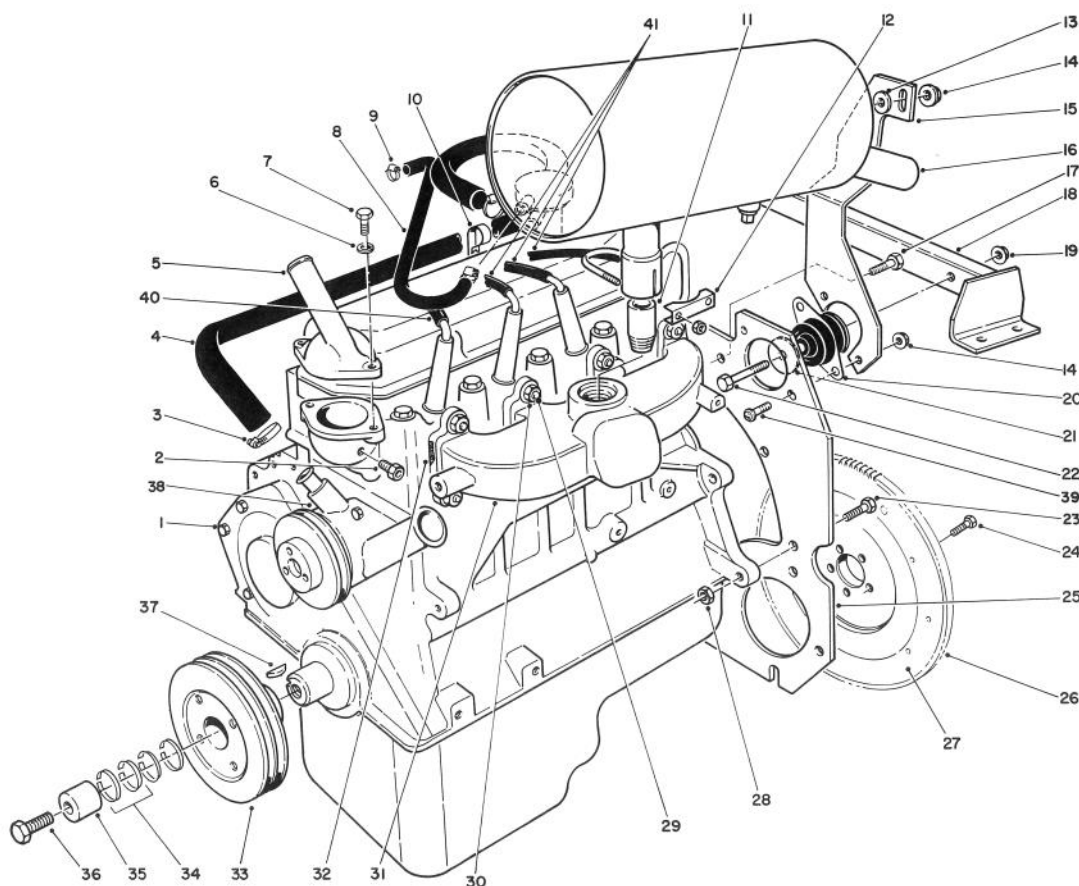


T-0922

## ENGINE ASSEMBLY

Ref. No.	Part No.	Description	No. Used
51	32120-69	Ring - Retaining Ext.	1
52	3245-5	Screw - Set	2
53	27-1960	Hub - Engine	1
54	63-1400	Rod - Belt	1

Ref. No.	Part No.	Description	No. Used
55	3290-224	Washer - Pyramidal	1
56	3234-18	Screw - Hex. Hd. Flange	1
57	32153-2	Nut - Lock	1
58	3290-379	Cable - Tie	3



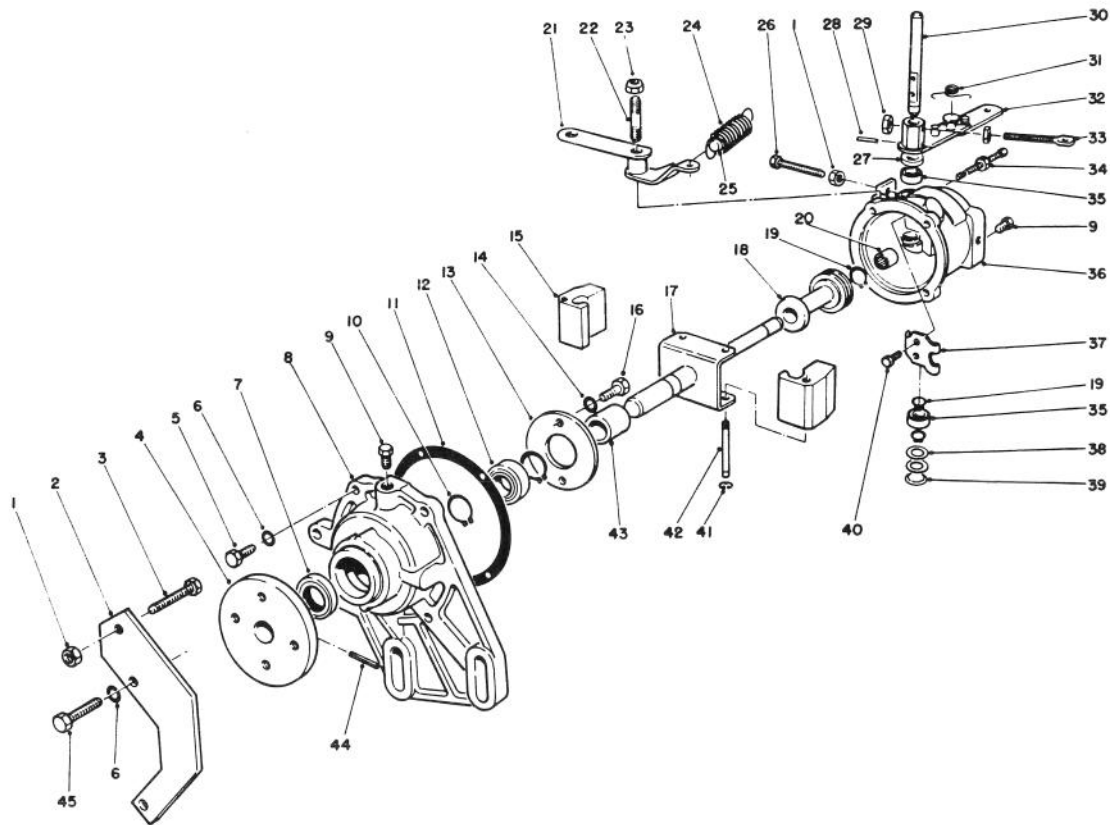
T-0923

## ENGINE ASSEMBLY

Ref. No.	Part No.	Description	No. Used	Ref. No.	Part No.	Description	No. Used
‡1	Model VSG-411	Engine TYPE 6005A	1	22	324-11	Screw - Cap, Hex Hd.	2
2	70-1690	Adapter - Gauge Temp.	1	†23	N80057-S2	Bolt	4
3	2412-119	Clamp - Hose	2	†24	D2RY-6379-A	Bolt	6
4	70-1670	Hose - Heater	1	25	67-8440	Plate - Support Engine	1
5	67-8940	Connector - Outlet	1	†26	D8RZ-6384A	Ring Gear - Flywheel	1
†6	E630173-S71 M	Washer - Lock	2	†27	89BM-6375-AA	Flywheel Assembly (Incl. Ref. #26)	1
†7	E6021 87-S72	Screw - Cap	2	†28	N620482-S2	Nut	4
8	70-2050	Hose - Breather	1	†29	E805697-S76	Stud	8
9	2412-108	Clamp	2	†30	N620481-S2	Nut	8
10	2412-39	Clamp - R	1	†31	EBJL-9430-CA	Manifold - Exhaust	1
11	67-9130	Pipe - Muffler	1	†32	89BM-9448-BA	Gasket - Manifold	4
12	2112-6	Clamp - Muffler	1	†33	E7JL-6A312-AA	Pulley	1
13	5-0652	Spacer	1	†34	E7JL-6N300-AA	Locking Ring Set	2
14	3290-357	Nut - Lock, Flange	5	†35	E7JL-6378-AA	Compression Ring	1
15	67-8420	Bracket - Muffler	1	†36	E7JL-6K340-AA	Bolt	1
16	67-9120	Muffler	1	†37	Dory-6B316-A	Key	1
†17	N605799-S2	Bolt	2	†38	92BX8591-BA	Water Pump Kit (Incl. Pulley & Gasket)	1
18	67-8480	Support - Engine Rear	1	39	3234-11	Screw - Flange Lock	4
19	32128-37	Nut - Lock, Flange	2	40	86-7921	Cover - Spark Plug Wire	1
20	53-9680	Mount - Engine	2	41	86-7920	Cover - Spark Plug Wire	3
21	53-9480	Washer - Snubber	2				

†Obtain from your local Ford Power Products Dealer.

‡Note: Includes all Ford part numbers from all pages.

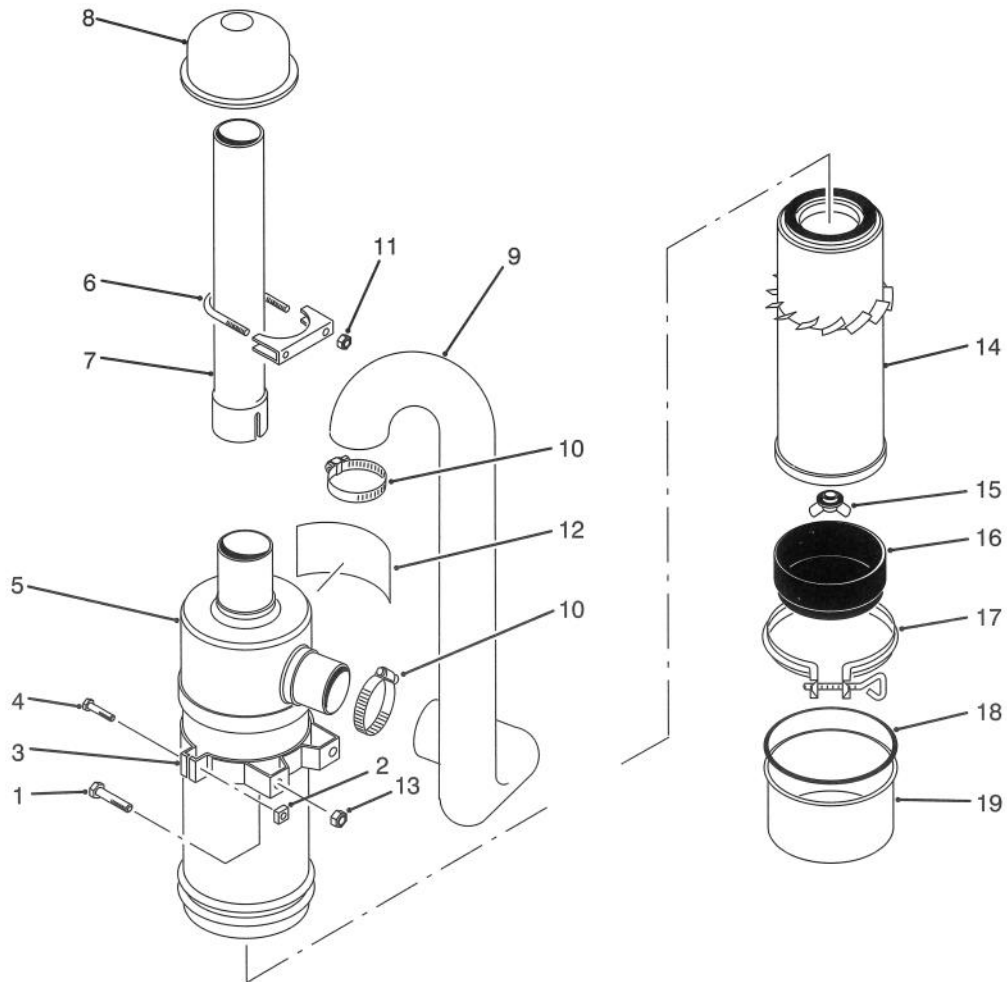


T-0933

## GOVERNOR ASSEMBLY NO. 67-8360

Ref. No.	Part No.	Description	No. Used
1	3219-1	Nut	2
2	70-2160	Bracket - Speed Stop	1
3	72-5920	Screw	1
4	67-8370	Hub	1
5	18-5620	Screw	2
6	18-5630	Washer - Lock	4
7	18-5580	Seal - Oil Front	1
8	70-2060	Cover - Governor	1
9	285-17	Plug - Pipe	2
10	18-5640	Ring - Retaining	2
11	18-5790	Gasket	1
12	70-2140	Bearing - Front	1
13	70-2130	Clamp - Bearing to Cover	1
14	18-5770	Washer - Lock	2
15	70-2150	Flyweight	2
16	329-3	Screw - Cap, Hex. Hd.	2
17	70-2110	Main Shaft & Yoke	1
18	70-2100	Sleeve & Bearing Assy.	1
19	18-5540	Ring - Retaining	3
20	72-5940	Bearing - Needle	1
21	70-2070	Lever - Speed Adjusting	1
22	70-2090	Stud - Pivot Lever	1
23	3296-5	Nut - Lock	1
24	72-5860	Spring - Governor	1

Ref. No.	Part No.	Description	No. Used
24	72-5860	Spring - Governor	1
25	72-5850	Pin - Force Idle	1
26	72-5930	Screw	1
27	71-4780	Seal - Oil Rocker Shaft	1
28	18-5750	Pin	1
29	3219-2	Nut	2
30	72-5890	Shaft - Rocker	1
31	18-5410	Spring - Torsion	1
32	72-5880	Throttle Lever Assy. (Incl. Ref. #31)	1
33	72-5870	Eyebolt	1
34	72-5910	Bumper Screw Assy.	1
35	18-5450	Bearing	2
36	70-2080	Body	1
37	18-5520	Lever - Rocker	1
38	18-5440	Spacer	2
39	18-5430	Plug - Expansion	1
40	18-5530	Screw & Lockwasher	2
41	18-5670	Retainer - Pin Pivot	2
42	18-5660	Pin - Pivot Flyweight	2
43	70-2120	Spacer	1
44	32121-51	Pin - Hub To Shaft	1
45	71-4770	Screw	2

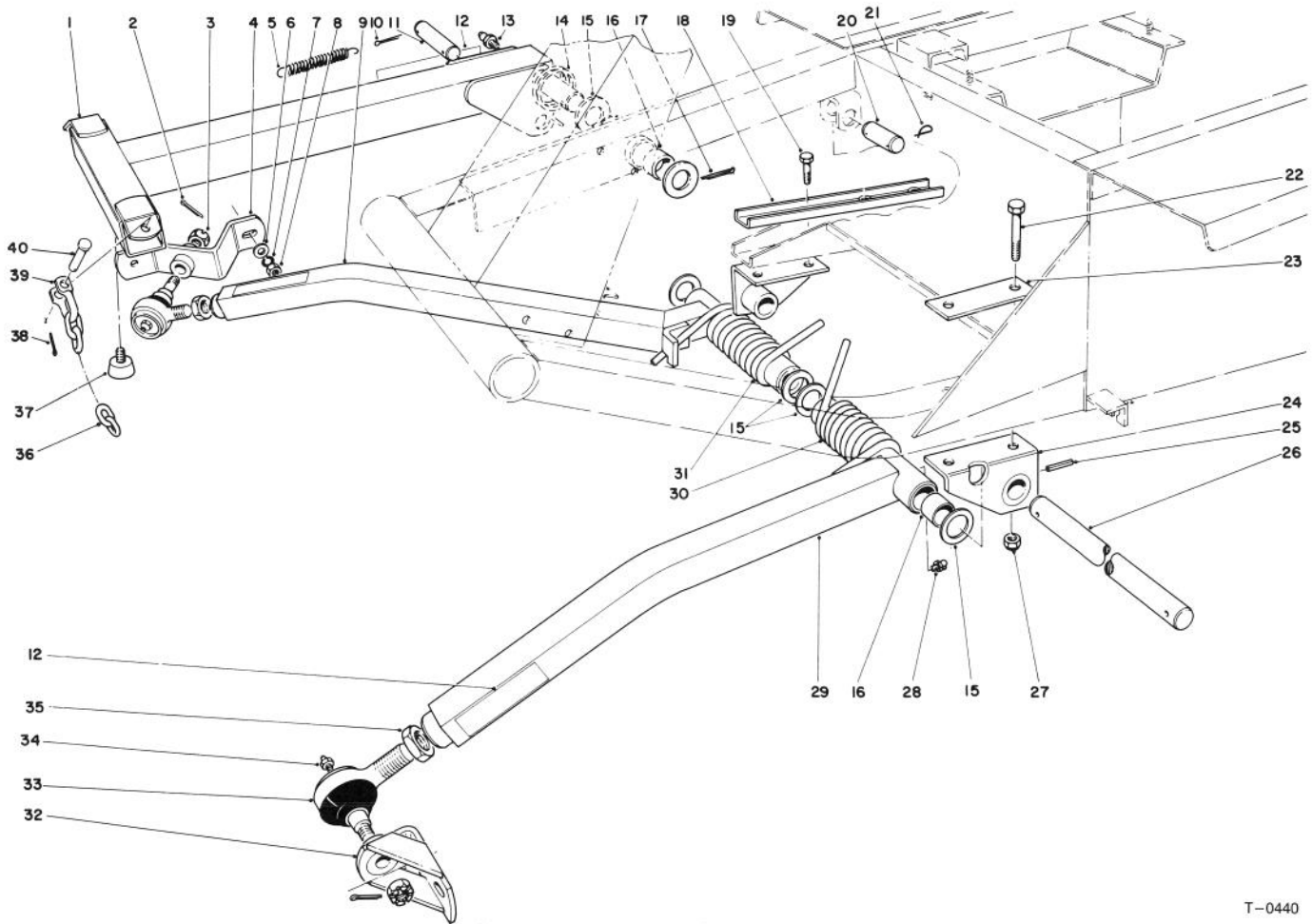


T-0934

## AIR CLEANER ASSEMBLY

Ref. No.	Part No.	Description	No. Used
1	322-3	Screw - Cap, Hex. Hd.	4
2	32107-11	Nut	2
3	27-7170	Band Assembly (Incl. Ref. #2 & 4)	2
4	3258-19	Round Hd. Machine Screw	2
5	27-7100	Air Cleaner Assembly (Incl. Ref. #12-18)	1
6	20-4840	Muffer Clamp (Incl. Ref. #11)	1
7	43-3810	Tube Air Cleaner	1
8	27-7180	Cap Assembly - Air Inlet	1

Ref. No.	Part No.	Description	No. Used
9	82-5590	Hose - Air Cleaner	1
10	2412-42	Hose Clamp	2
11	3217-6	Nut	2
12	27-7160	Decal - Instructions	1
13	32128-20	Nut - Lock, Flange Hd.	4
14	27-7110	Element Assembly	1
15	27-7120	Nut & Gasket Assembly	1
16	27-7140	Skirt - Baffle	1
17	27-7130	Clamp Assembly	1
18	80-3330	Gasket	1
19	27-7150	Cup Assembly	1



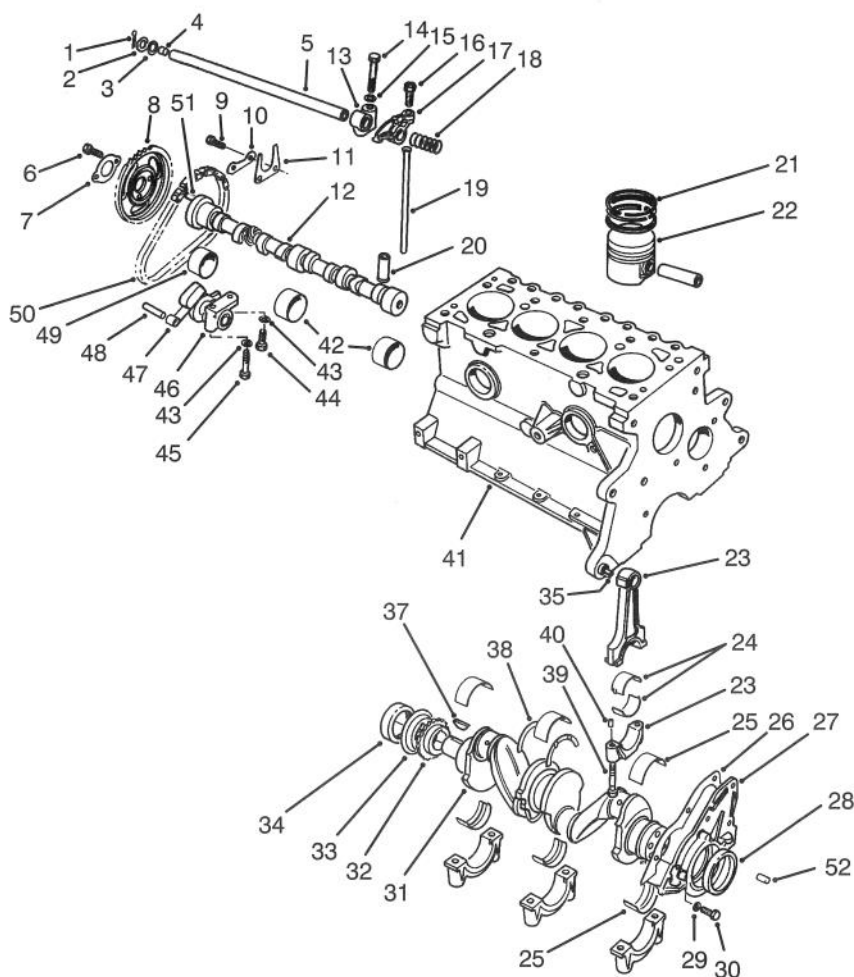
T-0440

### PUSH ARM ASSEMBLY

Ref. No.	Part No.	Description	No. Used
1	66-6370	Lift Arm	1
2	3272-11	Cotter Pin	2
3	32136-2	Nut	2
4	21-3020	Ball Joint Mount Rd. Hd.	1
5	21-1830	Spring Tension	1
6	3256-25	Flat Washer	1
7	3253-6	Lockwasher	2
8	3217-8	Full Nut	2
9	66-7150	Push Arm RH (Incl. Ref. #16 & 28)	1
10	3272-24	Cotter Pin	1
11	24-9510	Pin	1
12	55-4300	Warning Decal	3
13	302-5	Grease Fitting	1
14	46-8840	Spring Lift Arm	1
15	5-1754	Washer	6
16	256-126	Bushing	6
17	3272-33	Cotter Pin	1
18	23-1950	Support Reinforcement	1
19	324-4	Capscrew	2
20	3-7292	Pin	1

Ref. No.	Part No.	Description	No. Used
21	5-3126	Spring Pin	3
22	324-12	Capscrew	2
23	21-3750	Support Plate	1
24	21-2860	Push Arm Bracket	2
25	32121-84	Roll Pin	2
26	21-2990	Shaft Pivot	1
27	32128-42	Nut - Flange	4
28	302-33	Grease Fitting	2
29	21-2960	Push Arm LH (Incl. Ref. #16 & 28)	1
30	21-2900	Spring - Torsion LH	1
31	21-2890	Spring - Torsion RH	1
32	21-3050	Ball Joint Mount LH	1
33	86-8100	Ball Joint Assembly	2
34	302-5	Grease Fitting	2
35	21-3000	Jam Nut	2
36	3-1365	Chain - Lift	3
37	67-9800	Bumper	3
38	3272-10	Cotter Pin	3
39	5-2942	Shackle	1
40	283-10	Pin	1





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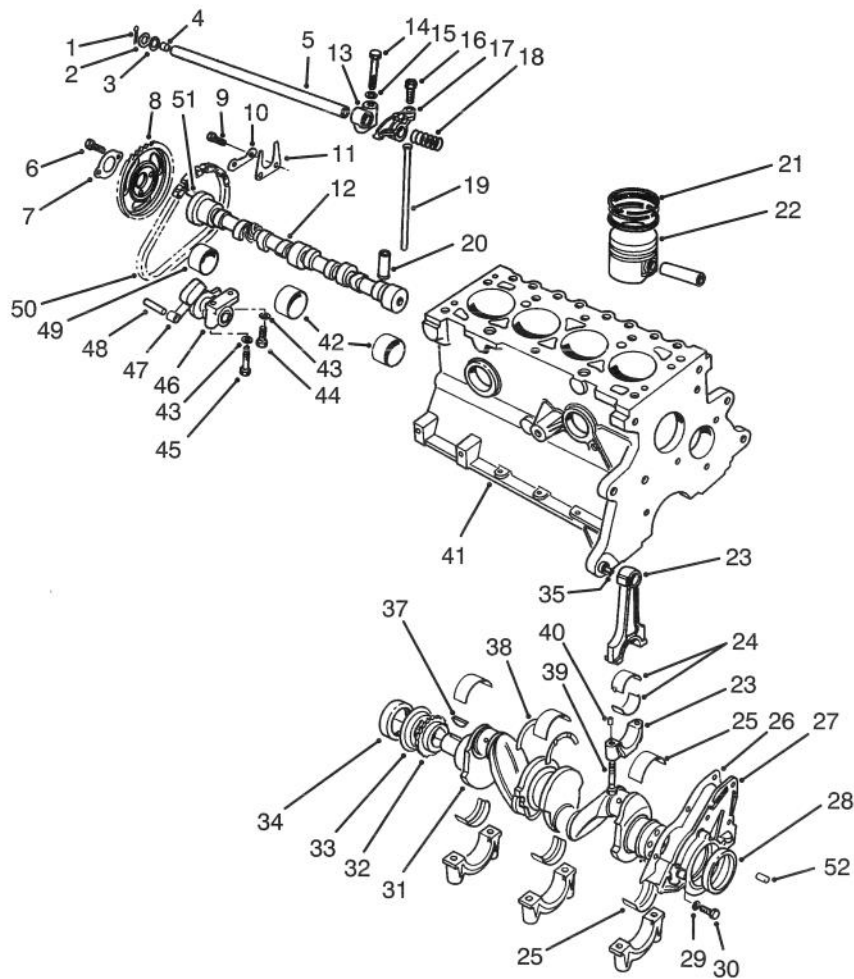
## CRANKSHAFT & CAMSHAFT ASSEMBLY

Ref. No.	Part No.	Description	No. Used	Ref. No.	Part No.	Description	No. Used
1	72025-S7	Cotter Pin	2	22	89BM-6102-AA	Piston Assembly STD. (Inc. Ref. #21)	4
2	77BM-6598-AB	Washer - Spring	2	*	89BM-6102-BA	Piston Assembly .020 OS. (Inc. Ref. #21)	A/R
3	DORY-6590-A	Washer - Flat	2	*	89BM-6102-CA	Piston Assembly .040 OS. (Inc. Ref. #21)	A/R
4	357966-S	Plug - Rocker Arm Shaft	2	23	89BM-6200-AD	Connecting Rod Assy.	4
5	89BM-6A557-AA	Rocker Arm Shaft Assy. (Incl. Ref. #4)	1	24	89BM-6211-AA	Bearing - Rod STD.	8
6	E602351-S72	Bolt	2	*	89BM-6211-BA	Bearing - Rod .001 U.S.	A/R
7	DORY-6258-A	Retainer	1	*	89BM-6211-CA	Bearing - Rod .010 U.S.	A/R
8	77BM-6256-AA	Sprocket - Camshaft	1	*	89BM-6211-DA	Bearing - Rod .020 U.S.	A/R
9	N602166-S2	Bolt	2	*	89BM-6211-EA	Bearing - Rod .030 U.S.	A/R
10	DORY-6255-A	Retainer	1	25	89BM-6333-AA	Bearing - Crank Upper STD. OD STD. ID	5
11	DORY-6269-A	Plate - Thrust	1	*	89BM-6331-AA	Bearing - Crank Lower STD. OD STD. ID	5
12	89BM-6251-AA	Camshaft	1	*	89BM-6333-BA	Bearing - Crank Upper STD. OD .005 US. ID	A/R
13	77BM-6531-BB	Support - Rocker Shaft	4	*	89BM-6331-BA	Bearing - Crank Lower STD. OD .005 US. ID	A/R
14	E800509-S72	Bolt - Rocker Support	4	*	89BM-6333-CA	Bearing - Crank Upper STD. OD .010 US. ID	A/R
15	E630031-S101	Washer	4	*			
16	DORY-6549-B	Screw	8				
17	89BM-6529-AB	Valve Rocker Arm - R.H. (Inc. Ref. #16)	4				
*	89BM-6K528-AB	Valve Rocker Arm - L.H. (Inc. Ref. #16)	4				
18	DORY-6587-A	Spring - Locating	3				
19	89BM-6565-AA	Rod - Valve Push	8				
20	89BM-6500-AA	Tappet - STD.	8				
21	89BM-6148-AA	Ring Set - STD.	4				
*	89BM-6148-BA	Ring Set - .020 OS.	A/R				
*	89BM-6148-CA	Ring Set - .040 OS.	A/R				

\*Not Illustrated

Note: Order parts from your local Ford Power Products Dealer.





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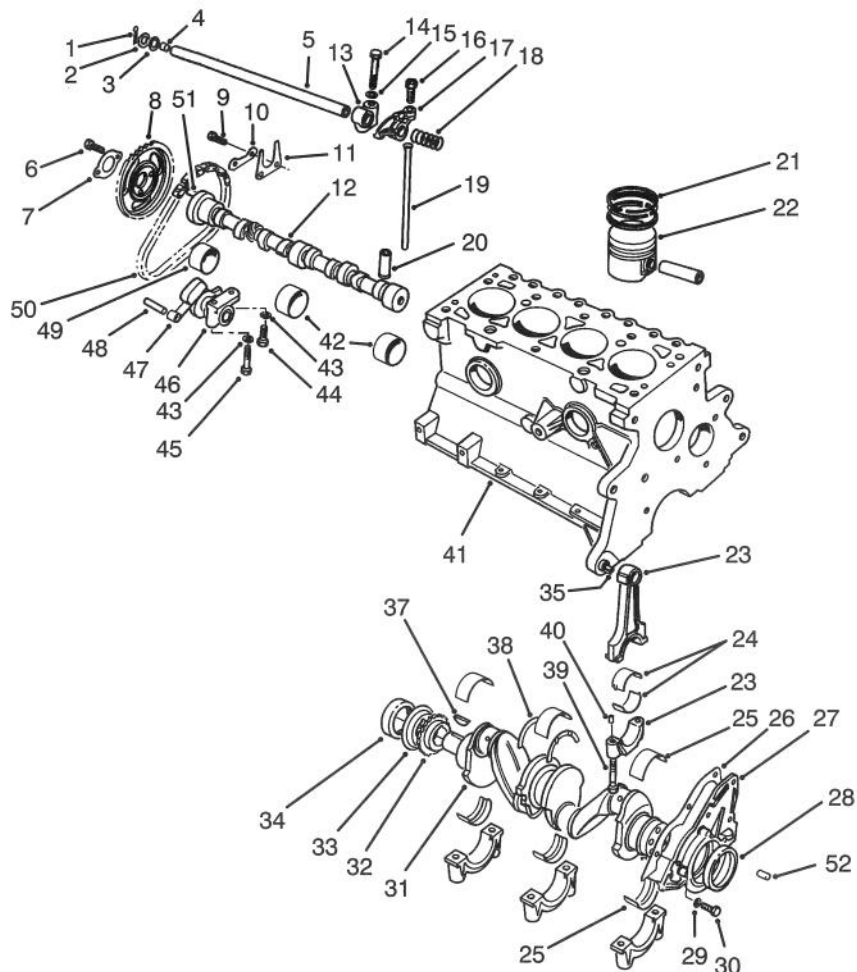
## CRANKSHAFT & CAMSHAFT ASSEMBLY (Continued)

Ref. No.	Part No.	Description	No. Used
*25	89BM-6333-DA	Bearing - Crank Upper .015 OD STD. ID	A/R
*	89BM-6331-DA	Bearing - Crank Lower .015 OD STD. ID	A/R
*	89BM-6333-EA	Bearing - Crank Upper STD. OD .020 US. ID	A/R
*	89BM-6331-EA	Bearing - Crank Lower STD. OD .020 US. ID	A/R
*	89BM-6333-FA	Bearing - Crank Upper STD. OD .030 US. ID	A/R
*	89BM-6331-FA	Bearing - Crank Lower STD. OD .030 US. ID	A/R
*	89BM-6333-GA	Bearing - Crank Upper .015 OS. OD .010 US. ID	A/R
*	89BM-6331-GA	Bearing - Crank Lower .015 OS. OD .010 US. ID	A/R
*	89BM-6333-HA	Bearing - Crank Upper .015 OS. OD .020 U.S. ID	A/R
*	89BM-6331-HA	Bearing - Crank Lower .015 OS. OD .020 US. ID	A/R
26	89BM-6344-BA	Gasket Rear Retainer	1

Ref. No.	Part No.	Description	No. Used
27	86BM-6K318-AA	Retainer Assembly Rear	1
28	86HM-6701-A1A	Seal Crankshaft Rear	1
29	E630173-S71M	Lockwasher	4
30	E602187-S72	Boit	4
31	89BM-6303-DA	Crankshaft Assembly	1
32	DORY-6306-A	Sprocket	1
33	D8RZ-6310-A	Singer Oil	1
34	83BM-6700-A4A	Seal - Front Cover	1
35	70HM-6397-AA	Dowel	2
37	D0RY-6B316-A	Key - Woodruff	1
38	89BM-6A341-AA	Washer - Bearing Thrust STD.	2
*	89BM-6A341-BA	Washer - Bearing Thrust .015 OS.	A/R
39	89BM-6214-DB	Bolt - Connecting Rod	8
40	116336-ES100	Dowel Pin - Rod	8
41	93BM-6011-AA	Cylinder Block	1
42	DORY-6262-C	Bearing - STD. ID STD. OD	2
*	DORY-6262-B	Bearing - STD. ID +.020 OD	A/R
43	34805-S8	Lockwasher	2
44	E602166-S72	Bolt	1
45	E600116-S204	Bolt	1
46	DIFZ-6284-A	Tensioner	1

\*Not Illustrated

Note: Order parts from your local Ford Power Products Dealer.



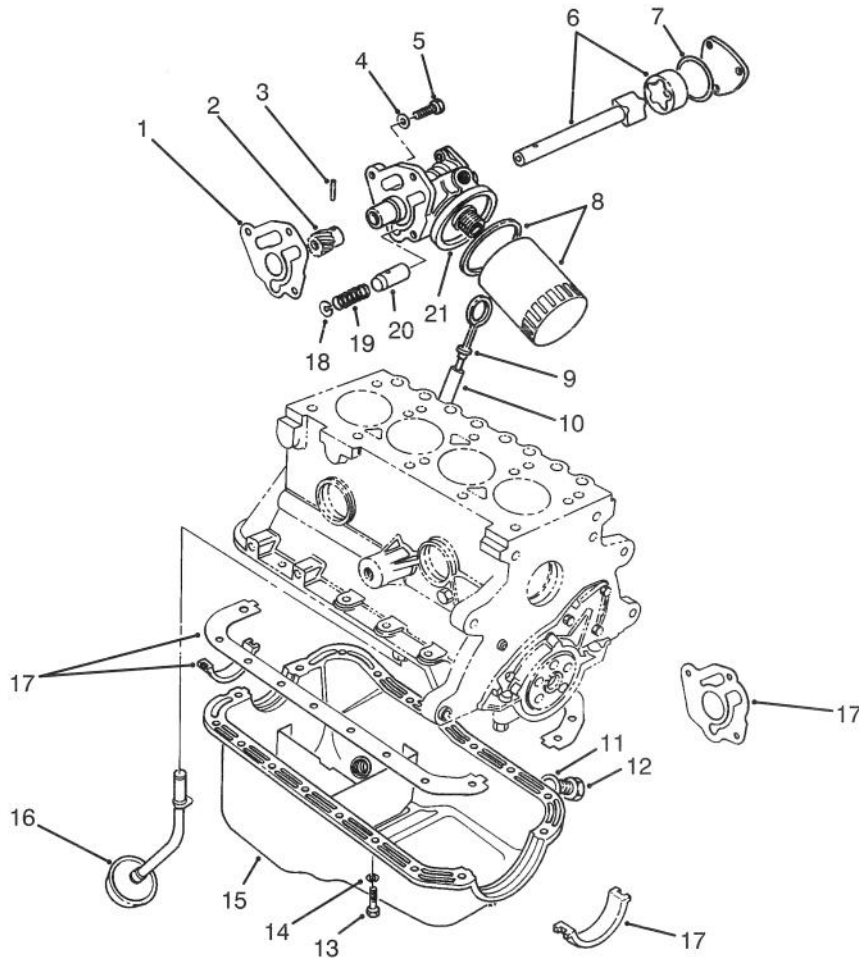
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## CRANKSHAFT & CAMSHAFT ASSEMBLY (Continued)

Ref. No.	Part No.	Description	No. Used	Ref. No.	Part No.	Description	No. Used
47	77BM-6K255-AC	Arm - Tensioner	1	50	DORY-6268-A	Chain	1
48	E43-CP-1	Pin	1	51	E93A-6253-A	Dowel	1
49	DORY-6261-A	Bearing - STD. ID STD. OD	1	52	E-840161-S	Dowel	1
*	DORY-6261-B	Bearing - STD. ID +.020 OD	A/R	*	88BX-6008-AA	Gasket Kit Complete	1
				*	88BX-6014-AA	Gasket Kit Upper	1

\*Not Illustrated

Note: Order parts from your local Ford Power Products Dealer.

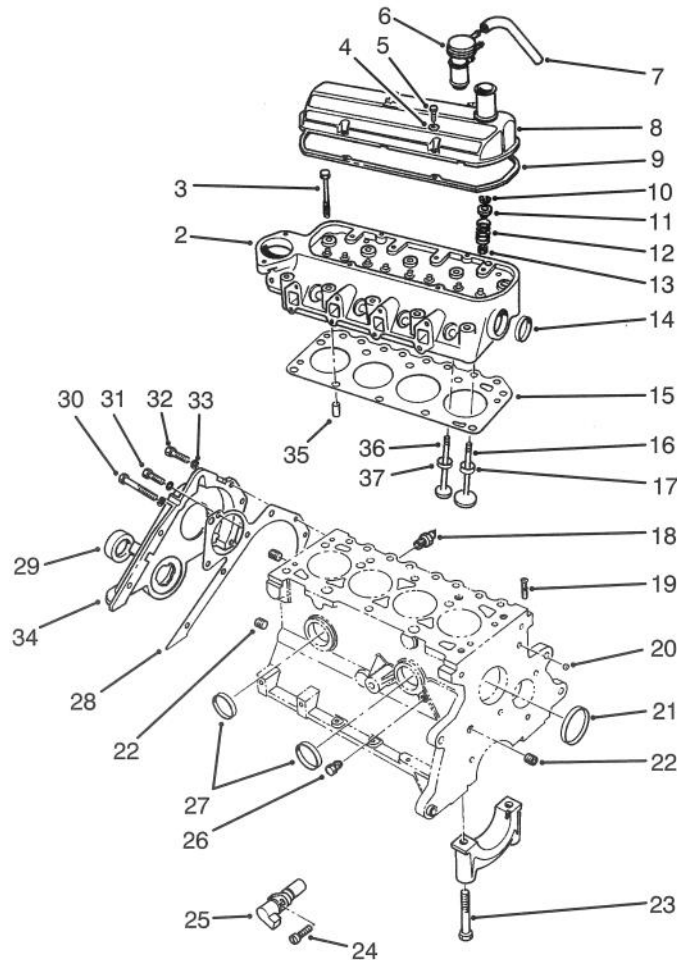


T-1003

## OIL PUMP & FILTER ASSEMBLY

Ref. No.	Part No.	Description	No. Used	Ref. No.	Part No.	Description	No. Used
1	89BM-6659-AA	Gasket - Oil Pump	1	12	E9DZ-6730-B	Plug - Oil Drain	1
2	DORY-6652-A	Gear	1	13	E602165-S72	Bolt	18
3	72432-S	Pin - Drive Gear	1	14	34805-S8	Lockwasher	18
4	E630173-571M	Lockwasher	3	15	86BM-6675-AA	Oil Pan	1
5	E800519-S72	Bolt	3	16	86BM-6617-AA	Oil Pickup Tube Assy.	1
6	DIFZ-6608-B	Rotor & Shaft	1	17	A850X-6013-AA	Kit - Gasket Seal	1
7	116682-ES	Seal Cover Plate	1	18	DORY-6666-A	Plug	1
8	FL-400-A	Filter - Oil	1	19	DORY-6670-A	Spring	1
9	92BM-6750-AA	Indicator - Oil Level	1	20	DORY-6674-A	Plunger	1
10	89BM-6784-AA	Tube Oil Level Indicator	1	21	D8RZ-6600-A	Pump - Oil	1
11	E9DZ-6734-B	Gasket Oil Drain Plug	1				

Note: Order parts from your local Ford Power Products Dealer.



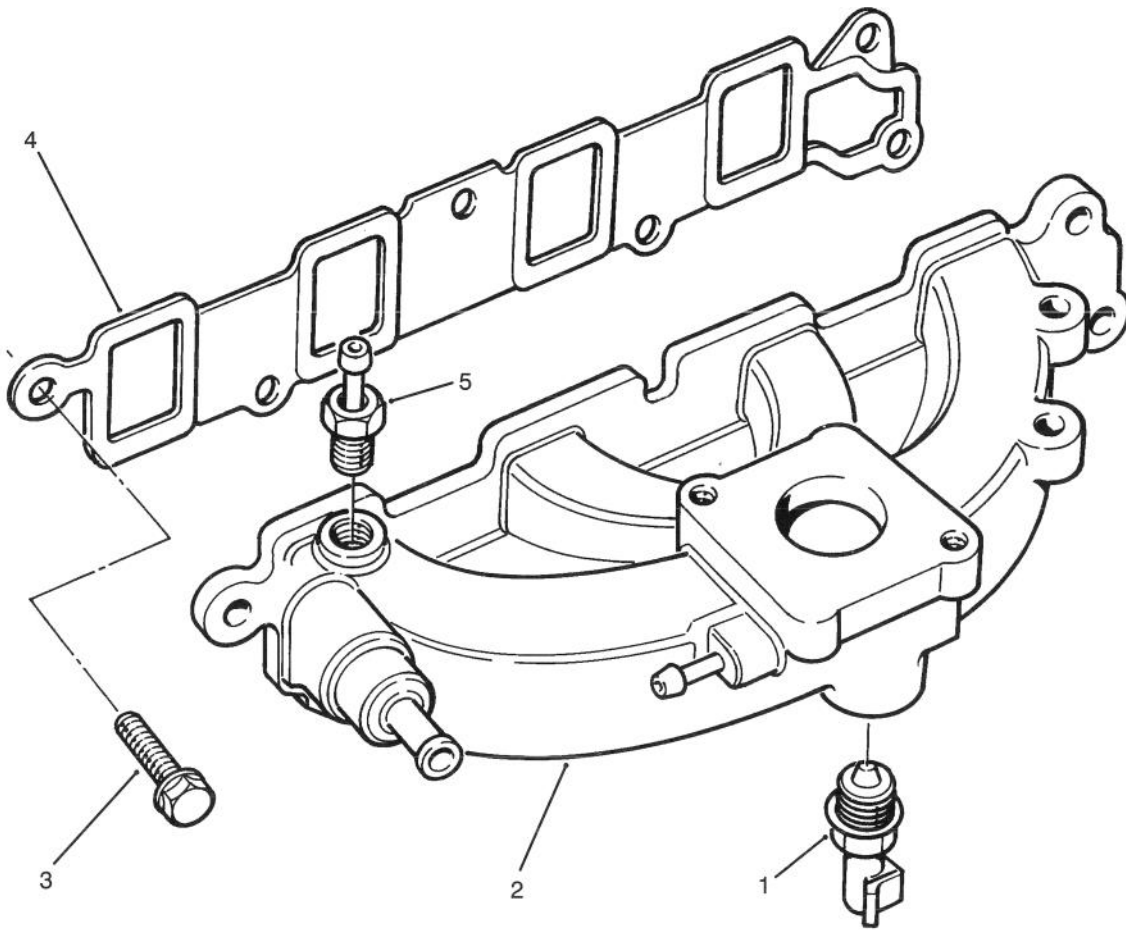
T-1002

## CYLINDER HEAD & VALVE ASSEMBLY

Ref. No.	Part No.	Description	No. Used	Ref. No.	Part No.	Description	No. Used
2	89BM-6049-HB	Cylinder Head Assembly	1	21	D8RZ-6026-A	Plug	1
3	89BM-6065-DA	Bolt - Cylinder Head	10	22	F1ZZ-6026-A	Plug	3
4	E630024-S201	Washer - Flat	4	23	D1FZ-6345-A	Bolt - Bearing Cap	10
5	E800516-S72	Screw - Rocker Cover	4	24	E802666-S72	Screw	1
6	84BF-6K614-CA	Cap - Oil Fill	1	25	89BF-66315-AB	Transducer	1
7	E9JL-6K609-AA	Hose - PCV	1	26	353055-S7	Plug	1
8	91BM-6582-GA	Cover - Rocker Arm	1	27	DORY-6026-A	Plug	2
9	77BM-6584-CA	Gasket - Cover	1	28	D8RZ-6020-A	Gasket - Front Cover	1
10	88WM-6518-AA	Lock Valve Spring	16	29	83BM-6700-A4A	Seal - Front Cover	1
11	89BM-6A536-AA	Retainer	8	30	E800518-S72	Bolt	1
12	89BM-6513-AA	Spring - Valve	8	31	E600113-S72	Bolt	3
13	88WM-6571-BB	Seal - Valve Stem	8	32	E800512-S72	Bolt	4
14	DORY-6026-A	Plug	1	33	E832108-S71M	Lockwasher	8
15	89BM-6051-B2C	Gasket - Cylinder Head	1	34	89BM-6019-AA	Cover & Seal Assembly (Incl. Ref. #29)	1
16	89BM-6507-AA	Valve - Intake - Std.	4	35	E840126S	Dowel	2
*	89BM-6507-AC	Valve - Intake .040mm O.S.	A/R	36	89BM-6505-EA	Valve - Exhaust .040mm O.S.	A/R
17	89BM-6056-A1F	Insert - Intake Seat	4	*	89BM-6505-CA	Valve - Exhaust Std.	4
18	E7RZ-9278-A	Switch Oil Pressure	1	37	89BM-6057-A2E	Insert - Exhaust Seat	4
19	D8RZ-6767-A	Adapter	1				
20	E890100-S	Plug - Ball - Oil Gallery	1				

\*Not Illustrated

Note: Order parts from your local Ford Power Products Dealer.

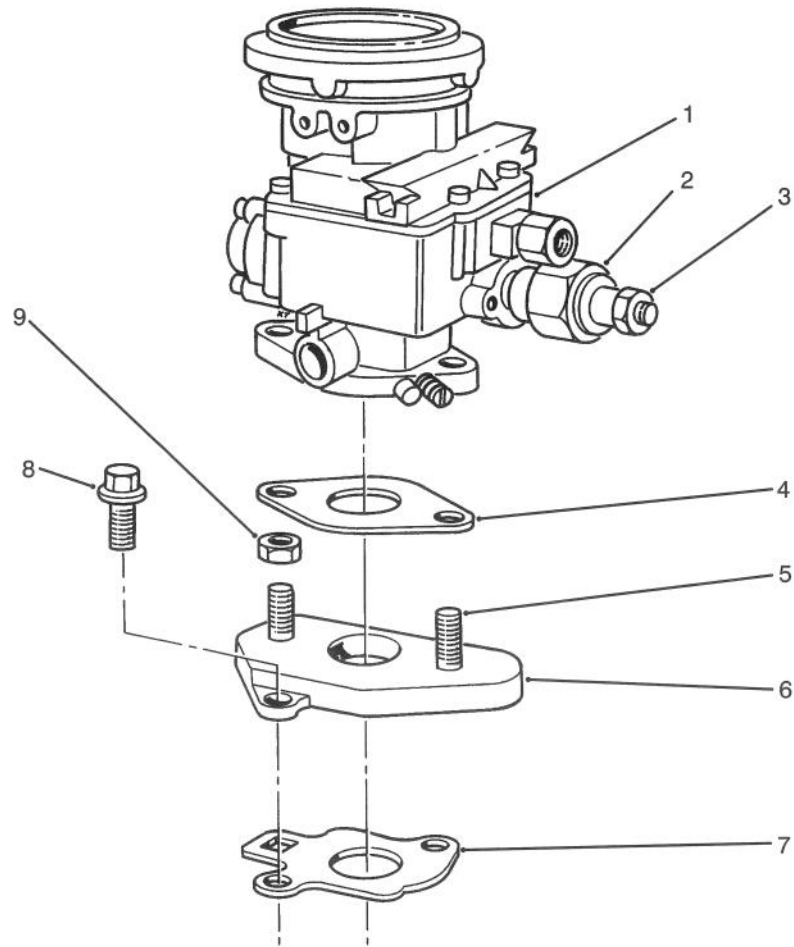


T-1176

### MANIFOLD ASSEMBLY

Ref. No.	Part No.	Description	No. Used
1	E1AZ-12A648-A	Sensor - Temp. Water	1
2	89BF-9424-AD	Manifold - Intake	1
3	E800157-S72	Bolt	6

Ref. No.	Part No.	Description	No. Used
4	89BM-9441-AB	Gasket - Intake Manifold	1
5	77BF-9K442-AA	Adapter - Vacuum	1



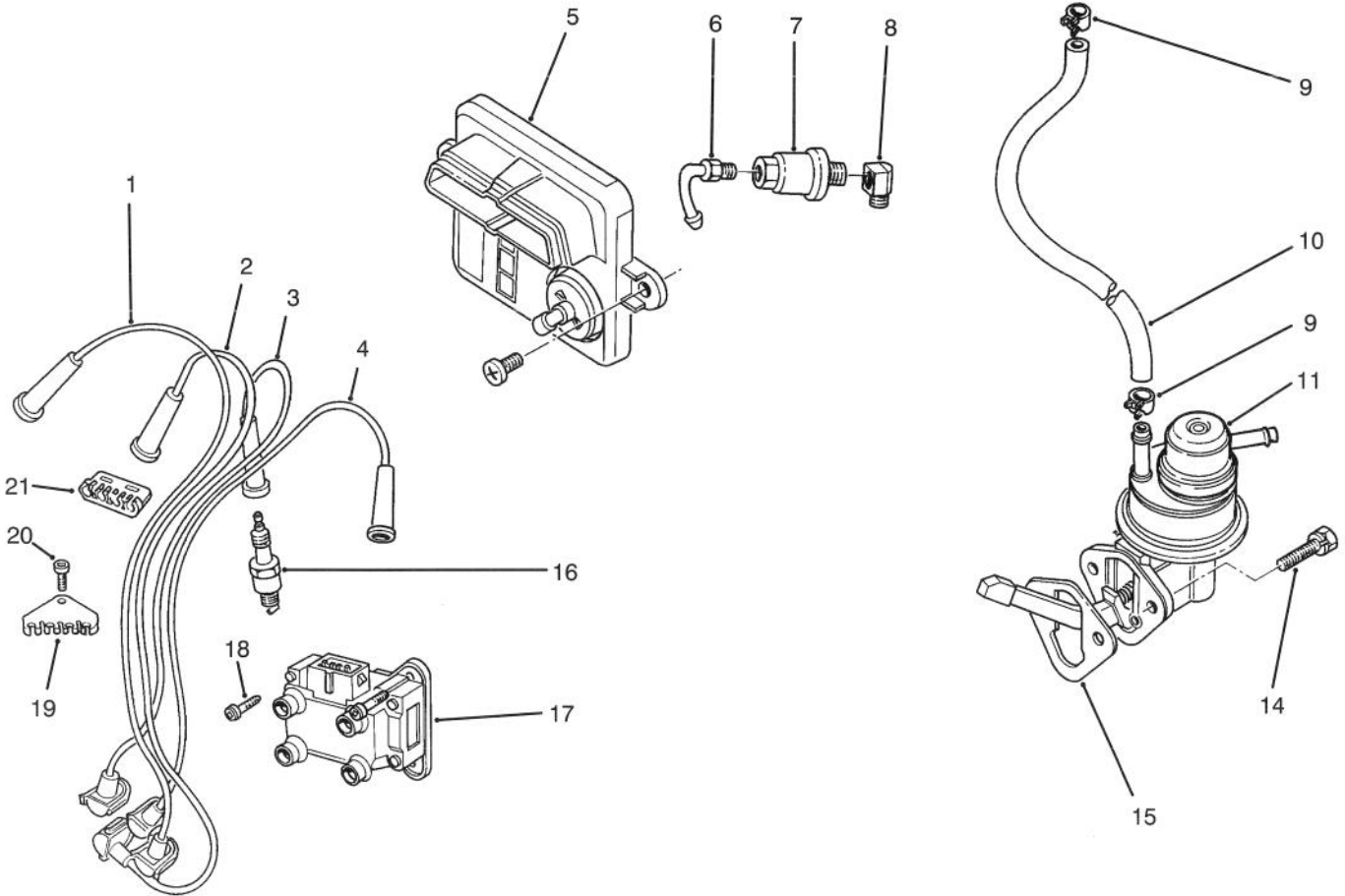
T-0999

## CARBURETOR ASSEMBLY

Ref. No.	Part No.	Description	No. Used	Ref. No.	Part No.	Description	No. Used
1	FOJL-9510BA	Carburetor Assembly	1	6	E8JL-9A589-CB	Adapter	1
2	84FB-9K765-BA	Solenoid	1	7	87BF-9447-BA	Gasket	1
3	N621903-S2	Nut & Washer	1	8	N800055-S	Bolt	2
4	E5JL-9447-BA	Gasket	1	9	N620041-S51	Nut	2
5	E804216S	Stud	2	*	FOJI-9590-BA	Repair Kit	1

\*Not Illustrated

Note: Order parts from your local Ford Power Products Dealer.



T-1233

## IGNITION & FUEL PUMP ASSEMBLY

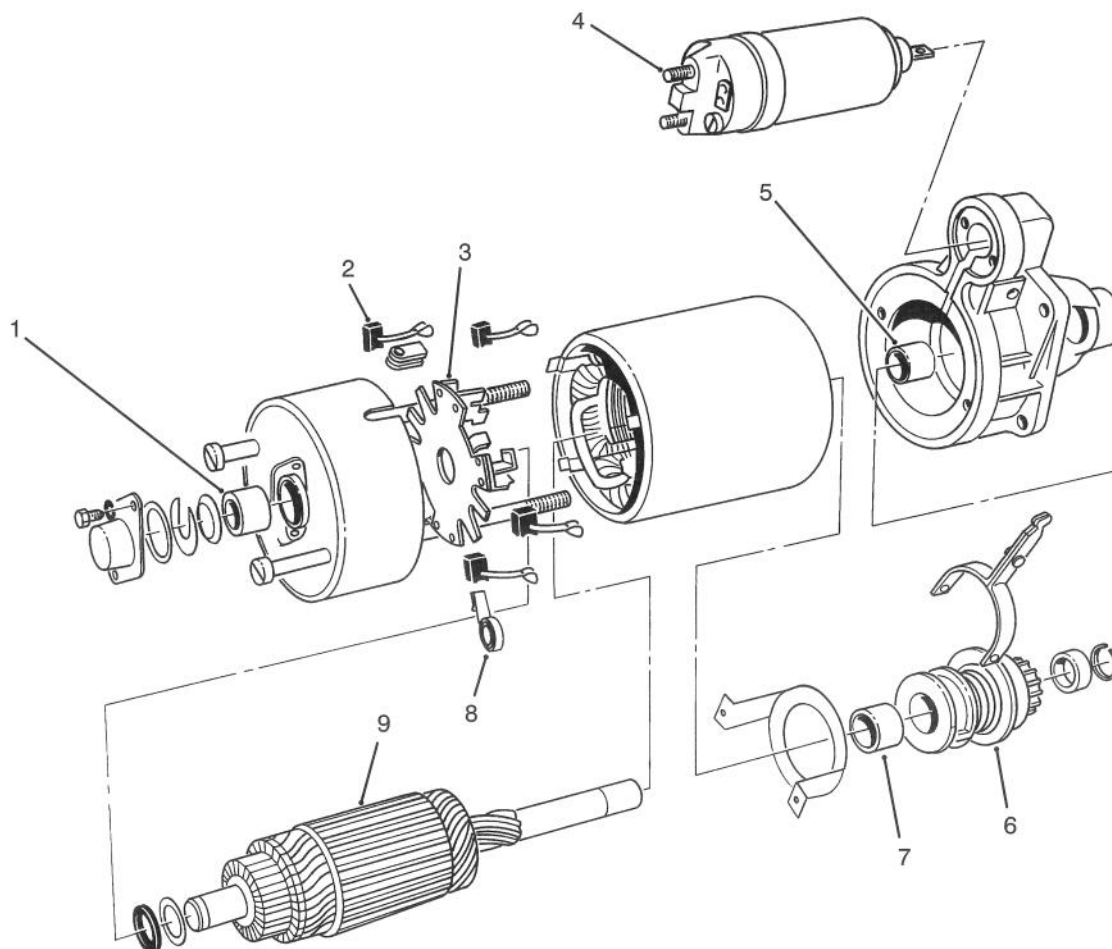
Ref. No.	Part No.	Description	No. Used
1	89BF-12287-AC	Wire - Spark Plug #4	1
2	89BF-12284-AD	Wire - Spark Plug #3	1
3	89BF-12283-AD	Wire - Spark Plug #2	1
4	88BF-12286-AD	Wire - Spark Plug #1	1
5	89FB-12A297-GA	Module - Ignition	1
6	D9JI-9A520-A	Adapter	1
7	FG795A	Filter - Fuel (Motorcraft)	1
8	370829-S101	Elbow	1
9	380882-S32	Clamp - Fuel Hose	A/R
10	381103-S180A	Hose - Fuel	1

Ref. No.	Part No.	Description	No. Used
11	83BF-9350-AA	Fuel Pump	1
14	N602551-S2	Screw & Washer	2
15	83BM-9417-A1A	Gasket - Fuel Pump	1
16	AGRF22	Spark Plug	1
*	AGSF22C	(Motorcraft)	4
17	89BF-12024-A1B	Coil & Bracket Assy.	1
18	E804335-S201	Screw	3
19	89BF-12297-AA	Separator - Wire	1
20	E802166-S76	Screw	1
21	E865648-S	Separator - Wire	1

\*Not Illustrated

Note: Order parts from your local Ford Power Products Dealer.





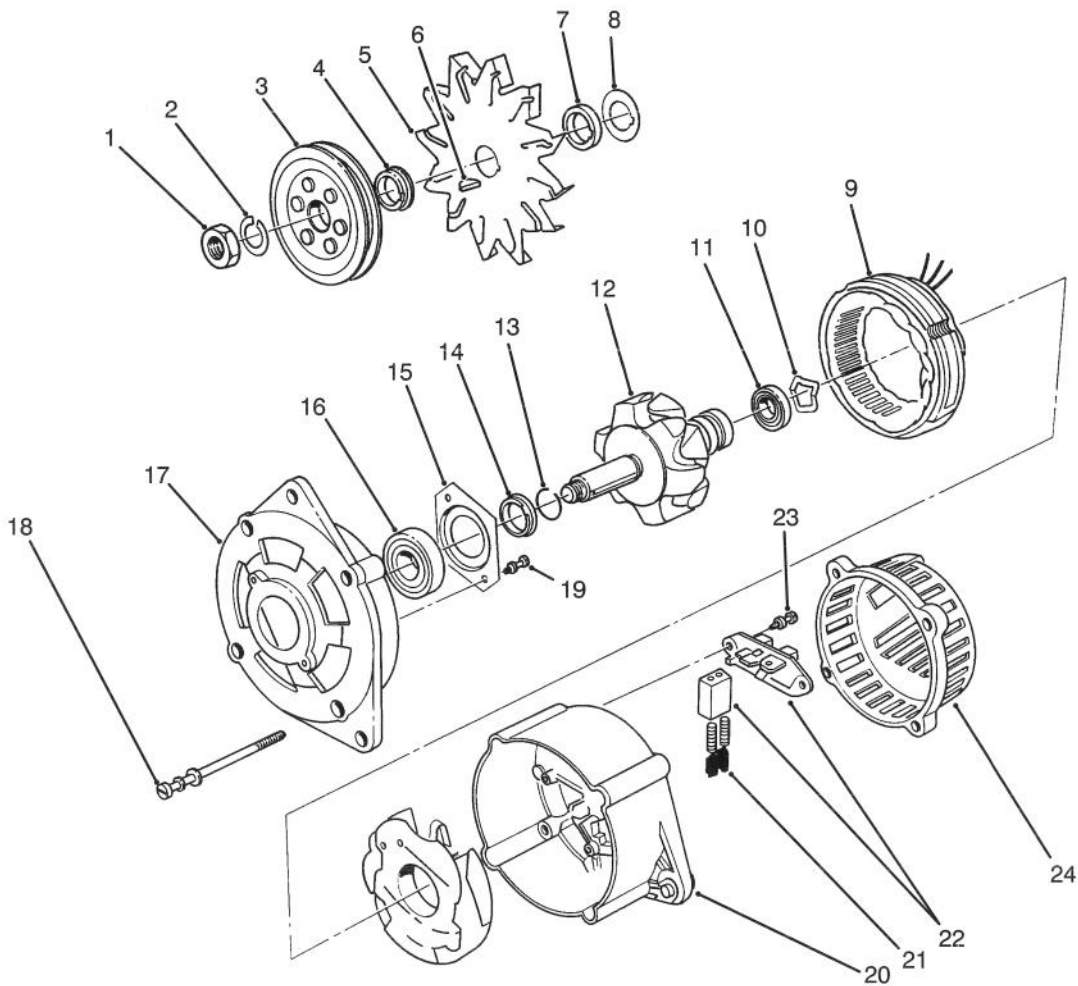
T-1005

## STARTER MOTOR ASSEMBLY

Ref. No.	Part No.	Description	No. Used	Ref. No.	Part No.	Description	No. Used
1	DORY-11135-B	Bushing Brush End (ID No. 1211227 Starter)	1	6	EORZ-11350-A	(ID No. 1211227 Starter) Drive Assembly	1
1	EORZ-11135-A	Bushing Brush End (ID No. 1211512 Starter)	1	7	DORY-11135-A	Bushing Starter Drive (ID No. 1211227 Starter)	1
2	D8RZ-11057-A	Brush Set (ID No. 1211227 Starter)	1	8	D6RY-11059-A	Spring Brush (ID No. 1211227 Starter)	4
2	E0RZ-11057-A	Brush Set (ID No. 1211512 Starter)	1	8	EORZ-11059-A	Spring - Brush (ID No. 1211512 Starter)	4
3	77BB-11061-A	Holder Brush (ID No. 1211227 Starter)	1	9	DORY-11K126-A	Armature Installation Kit (ID No. 1211227 Starter)	1
3	EORZ-11061-A	Holder Brush (ID No. 1211512 Starter)	1	9	EORZ-11K126-A	Armature Installation Kit (ID No. 1211512 Starter)	1
4	73AB-11390-AA	Solenoid	1	*	F2PZ-11K162-A	Wiring Service Kit	1
5	D3RY-11135-A	Bushing Drive End	1				
6	77FB-11350-BA	Drive Assembly					

\*Not Illustrated

Note: Order parts from your local Ford Power Products Dealer.



T-1000

## ALTERNATOR ASSEMBLY

Ref. No.	Part No.	Description	No. Used
1		Nut	1
2		Washer - Lock	1
3	D5RY-10344-A	Pulley	1
4		Bushing	1
5		Fan	1
6		Key - Woodruff	1
7		Bushing	1
8		Washer	1
9		Stator Assembly	1
10		Retainer	1
11	D2RY-10A304-A	Bearing - Rear	1
12		Rotor	1
13		Retainer	1
14		Bushing	1

Ref. No.	Part No.	Description	No. Used
15		Plate - Bearing	1
16	71BB-10A303-AA	Bearing - Front	1
17		Cover - Front	1
18		Screw & Washer	4
19		Screw & Washer	2
20		Housing	1
21	E7RY-10347-A	Brush Set	2
22	86GB-10316-AA	Regulator Assembly	1
23		Screw & Washer	2
24		Cover - Rear	1
*	D1RY-10B304-A	Pulley Installation Kit (Incl. Ref. #1, 2, 6, 7, 10 & 19)	1
*	86AB-10300-AB	Alternator Complete	1

\*Not Illustrated

Note: Order parts from your local Ford Power Products Dealer.

# TORO PART NUMBER INDEX (Cont.)

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Part No.	Description	Pg. No.	Ref. No.	Qty.	Part No.	Description	Pg. No.	Ref. No.	Qty.
3-1365	Chain - Lift	34	36	3	21-3600	Foam - Support Tank	14	1	1
3-3251	Spring - Compression	9	9	1	21-3610	Foam - Support Tank	14	13	1
3-6498	Washer	7	18	A/R	21-3750	Support Plate	34	23	1
3-6657	Clip	6	5	2	21-5640	Joint - Ball	28	9	1
3-7243	Spring - Extension	9	13	2	21-7670	Differential Case	16	33	1
3-7292	Pin	34	20	1	21-7690	Pinion Gear	15	6	2
3-8812	Spacer	7	19	1	21-7700	Pinion Mate Shaft	16	31	1
5-0652	Spacer	31	13	1	21-7720	Thrust Washer	15	4	2
5-0652	Spacer	7	37	1	21-7730	Thrust Washer	15	7	2
5-0701	Spring Anchor	8	52	1	21-7770	Drive Gear Screw	16	32	5
5-1226	Washer	18	17	A/R	21-7830	Gear Cover	15	12	1
5-1747	Spring	7	21	1	21-7850	Cap - Plug	15	20	1
5-1754	Washer	34	15	6	21-8020	Spacer - Pinion Bearing	16	25	1
5-2942	Shackle	34	39	1	21-8090	Adjustment Shim .003	16	38	A/R
5-3126	Spring Pin	34	21	3	21-8100	Adjustment Shim .005	16	37	A/R
7-3900	Pad - Brake	9	1	1	21-8110	Adjustment Shim .010	16	36	A/R
10-6830	Stud - Drive	18	24	10	21-8120	Adjustment Shim .030	16	35	A/R
10-8110	Washer	18	18	3	21-8180	Bearing	17	3	2
11-0590	Screw - Hex Self-Tapping	5	36	2	21-8270	Dowel Pin	15	3	2
11-0590	Screw - Hex. Hd. Tapping	9	5	2	21-8360	Clip - Retaining	17	12	2
11-9760	Self Tapping Screw	20	52	3	21-8590	Link - Valve Lever	24	27	1
12-5450	Thread Forming Screw	15	13	8	21-8620	Lever Valve	24	2	1
12-9990	Hour Meter	3	16	1	21-8640	Latch Valve Lever	24	7	1
14-8459	Hood	5	44	1	21-9010	Pivot Mount - Valve Lever	24	11	1
18-1520	Filter - Gas	14	43	1	21-9260	Cover - Dust	11	4	1
18-2770	Cable - Ground	2	51	1	21-9370	Screw - Adjusting	17	16	2
18-5410	Spring - Torsion	32	31	1	21-9380	Nut - Pivot	17	17	2
18-5430	Plug - Expansion	32	39	1	21-9390	Socket - Adjusting Screw	17	15	2
18-5440	Spacer	32	38	2	21-9420	Spring - Shoe Return L.H.	17	19	2
18-5450	Bearing	32	35	2	21-9430	Spring - Shoe Return R.H.	17	7	2
18-5520	Lever - Rocker	32	37	1	21-9440	Spring - Adjusting Screw	17	14	2
18-5530	Screw & Lockwasher	32	40	2	21-9450	Dust Shield	17	5	2
18-5540	Ring - Retaining	32	19	3	21-9460	Retainer - Brake Lever	17	10	4
18-5580	Seal - Oil Front	32	7	1	22-7810	Spacer	14	24	1
18-5620	Screw	32	5	2	22-7810	Spacer	3	27	1
18-5630	Washer - Lock	32	6	4	22-7820	Buzzer Assembly	3	28	1
18-5640	Ring - Retaining	32	10	2	22-8330	Plug	27	1	2
18-5660	Pin - Pivot Flyweight	32	42	2	22-8340	Spring	27	3	2
18-5670	Retainer - Pin Pivot	32	41	2	22-8350	Ball	27	4	2
18-5750	Pin	32	28	1	22-8360	Pin - Cam	27	6	2
18-5770	Washer - Lock	32	14	2	22-8370	Seat - Check Valve	27	5	2
18-5790	Gasket	32	11	1	22-8380	Spring Retainer	27	10	1
20-4840	Muffler Clamp	33	6	1	22-8390	Spring Retainer	27	12	1
21-0141	Socket Assembly R.H.	9	26	1	22-8400	Spacer Float	27	13	1
21-0141	Socket Assembly R.H.	18	39	2	22-8410	Spring	27	11	1
21-0151	Socket Assembly L.H.	18	*	2	22-8420	Spool	27	8	1
21-0230	Pulley - P.T.O.	7	13	1	22-8480	Spring Ring Spool	27	14	1
21-0400	Spring - Compression	7	48	1	22-8490	Snap Ring	27	15	1
21-1600	Clamp P.T.O. Lever	8	54	1	22-8500	O-Ring	27	9	2
21-1820	Stud - Retainer Belt	29	1	3	23-1950	Support Reinforcement	34	18	1
21-1830	Spring - Tension	7	50	1	23-2240	Rod - Pump Control	9	17	1
21-1830	Spring Tension	34	5	1	23-2270	Bushing - Rubber	9	16	1
21-1880	Grip Handle	7	1	1	23-5180	Dipstick	14	38	1
21-2000	Rod - Tie	18	41	2	23-7270	Nut - Wheel	14	30	10
21-2370	Wire - Hour Meter Ground	4	1	1	23-9740	Oil Filter	20	34	1
21-2660	Footrest	1	5	1	24-6390	Stud - Battery Hold Down	1	12	2
21-2760	Pad - Foot Rest L.H.	2	46	1	24-6420	Hold Down - Battery	1	20	1
21-2770	Pad - Foot Rest R.H.	2	45	1	24-8790	Differential Bevel Gear Side	15	5	2
21-2820	Hub - Wheel	18	25	2	24-8840	Ring - Wheel Bearing	17	21	2
21-2850	Mount - R.H. Pedal	9	4	1	24-9180	Strut & Lever Parking Brake	17	4	2
21-2860	Push Arm Bracket	34	24	2	24-9510	Pin	34	11	1
21-2890	Spring - Torsion RH	34	31	1	24-9830	Support - Axle	6	25	1
21-2900	Spring - Torsion LH	34	30	1	25-2380	Thrust Plate	22	50	2
21-2960	Push Arm LH	34	29	1	25-2390	Motor Valve Plate	23	57	1
21-2990	Shaft Pivot	34	26	1	25-2400	Gasket	23	59	1
21-3000	Jam Nut	34	35	2	25-2410	Accel. Valve Assembly	22	17	2
21-3020	Ball Joint Mount Rd. Hd.	34	4	1	25-2430	Dowel Pin	23	52	2
21-3050	Ball Joint Mount LH	34	32	1	25-2440	Pump Valve Plate	23	51	1
21-3370	Cable - R.H. Brake	9	*	1	25-2450	Variable Swashplate	22	48	1
21-3380	Cable - L.H. Brake	9	15	1	25-2460	Plug - Hex. Hd.	22	28	2

\*Not Illustrated

# TORO PART NUMBER INDEX (Cont.)

Part No.	Description	Pg. Ref. No. No. Qty.	Part No.	Description	Pg. Ref. No. No. Qty.
25-2470	Shim Pack	22 29 2	41-8760	Gasket - Transmission	20 45 1
25-2480	Valve Spring	22 44 1	42-6080	Shim - Axle	14 26 A/R
25-2490	Ball	22 9 2	42-9500	Screw - Metric	29 3 4
25-2500	Trunion Shaft	22 43 1	42-9530	Screw - Metric	29 29 3
25-2510	Washer - Flat	22 25 2	42-9600	Washer - Lock	29 7 8
25-2530	Headless Straight Pin	22 39 1	42-9780	Washer - Flat	29 30 4
25-2550	Charge Pump Housing	22 34 1	42-9780	Washer - Flat	28 31 1
25-2570	Valve Spring	22 30 1	42-9850	Washer - Lock	29 4 8
25-2580	Trunion Shaft	22 26 1	43-1710	Valve Assembly	24 13 1
25-2610	Accel. Valve Spring	22 16 1	43-1730	Body	27 7 1
25-2620	By Pass Valve	22 15 1	43-2600	Screw - Metric	29 6 3
25-2630	Back Up Ring	22 14 1	43-3320	Foam - Radiator	5 33 2
25-2640	Valve Spring	22 8 2	43-3720	Collar Bearing	29 48 1
25-2650	Check Valve Plug	22 6 2	43-3780	Swivel - Cable Throttle	28 13 1
25-2680	Gerotor Assembly	22 38 1	43-3810	Tube Air Cleaner	33 7 1
25-3180	Check Valve Kit	22 11 2	43-3860	Shaft - Pivot P.T.O.	7 9 1
25-3190	Charge Pump	22 40 1	43-4300	Trim - Rear Frame	2 32 2
25-3210	Lip Seal	22 24 2	43-5500	Pivot P.T.O.	7 31 1
25-8640	Screw - Machine	28 11 1	43-5540	Shaft P.T.O.	7 43 1
26-6740	Temperature Reset Relay	3 13 1	43-5550	Shaft - P.T.O. Actuator	7 32 1
27-1960	Hub - Engine	30 53 1	43-5570	Arm - P.T.O. Actuator	7 38 1
27-2360	Switch	3 15 1	43-5630	Yoke - P.T.O.	7 51 1
27-6590	Spacer Rubber Coupling	20 22 2	43-5930	Washer - Lock	29 17 3
27-6600	Spacer Rubber Coupling	20 20 6	43-5930	Washer - Metric	5 4 2
27-7100	Air Cleaner Assembly	33 5 1	43-6550	Snap Ring	15 21 1
27-7110	Element Assembly	33 14 1	43-6710	Adjustment Shim .003	15 15 A/R
27-7120	Nut & Gasket Assembly	33 15 1	43-6711	Adjustment Shim .005	15 16 A/R
27-7130	Clamp Assembly	33 17 1	43-6712	Adjustment Shim .010	15 17 A/R
27-7140	Skirt - Baffle	33 16 1	43-6713	Adjustment Shim .030	15 18 A/R
27-7150	Cup Assembly	33 19 1	43-6750	Roller Bearing Cup	15 10 1
27-7160	Decal - Instructions	33 12 1	43-6760	Roller Bearing Cone	15 9 1
27-7170	Band Assembly	33 3 2	43-6800	Nut - Lock	17 18 8
27-7180	Cap Assembly - Air Inlet	33 8 1	43-6810	Torque - Spider	17 6 2
27-7290	Decal - Power Take Off	1 16 1	43-6840	Lower Housing	16 34 1
27-7310	Decal - Refueling	2 39 1	43-8600	Spring - Compression	6 11 1
27-7320	Decal - Traction Pedal	1 1 1	43-8600	Spring - Compression	8 66 1
27-7370	Brake Assembly P.T.O.	7 25 1	43-8610	Guide - Spring & Ball Seat	7 5 1
27-7490	Pedal - L.H. Brake	9 41 1	43-8610	Guide - Spring & Ball Seat	6 12 1
27-7510	Pedal - R.H. Brake	9 42 1	43-8620	Guide - Switch Pin	6 9 1
27-7570	Pad - Left Turn	9 38 1	43-8620	Guide - Switch Pin	8 68 1
27-7580	Pad - Right Turn	9 2 1	43-8860	Plunger - Switch	6 10 1
27-7590	Mount - Brake	9 34 1	43-8860	Plunger - Switch	8 67 1
27-7640	Shaft - Brake Latch	9 36 1	43-8870	Boot - Switch	6 1 1
27-7900	Screw - Adjusting	7 35 1	43-8870	Boot - Switch	8 71 1
27-8550	Pedal - Parking Brake	9 45 1	43-9071	Assembly - Switch	6 * 1
27-9270	Mount - Brake Pivot Shaft	9 35 1	43-9071	Assembly - Switch	8 * 1
28-0650	Flanged Axle Shaft	17 1 2	43-9110	Tank - Fuel	14 12 1
28-0660	Screw - Cap, Hex. Hd.	17 22 8	44-2210	Warning Light	3 30 1
28-0670	Oil Seal	17 8 2	44-2230	Rubber Coupling	20 17 2
28-0680	Brake Drum	17 13 2	46-2210	Shim - Front Pinion Bearing	15 22 A/R
28-1280	Boot - Cable	1 18 1	46-2211	Shim - Front Pinion Bearing	15 * A/R
28-5220	Wheel - Friction	9 25 1	46-2212	Shim - Front Pinion Bearing	15 *22 A/R
28-9570	Pump Lever	20 51 1	46-2213	Shim - Front Pinion Bearing	15 * A/R
29-6120	Pump Plate	20 3 1	46-2214	Shim - Front Pinion Bearing	15 * A/R
29-6150	Leaf Spring	20 46 1	46-2215	Shim - Front Pinion Bearing	15 *A/R/
29-6163	Micro Switch	20 2 1	46-2216	Shim - Front Pinion Bearing	15 * A/R
29-6170	Extended Leaf Spring	20 7 1	46-2220	Shim - Front Pinion Bearing	15 * A/R
31-0390	Disc - Friction	11 31 1	46-2221	Shim - Front Pinion Bearing	15 * A/R
33-4380	Pump Hub	20 14 1	46-2222	Shim - Front Pinion Bearing	15 * A/R
37-9550	Strap - Tank Fuel	14 4 1	46-2223	Shim - Front Pinion Bearing	15 * A/R
37-9650	Trim	1 26 1	46-2224	Shim - Front Pinion Bearing	15 * A/R
38-1650	Fuel Gauge	3 8 1	46-2225	Shim - Front Pinion Bearing	15 * A/R
38-1660	Ammeter	3 10 1	46-2226	Shim - Front Pinion Bearing	15 * A/R
38-1670	Mounting Clamp	3 7 2	46-2410	Shim - Front Pinion Bearing	15 * A/R
38-3400	Guard - Rubber	21 60 1	46-2411	Shim - Front Pinion Bearing	16 *22 A/R
38-3400	Guard - Rubber	24 5 1	46-2412	Shim - Front Pinion Bearing	16 * A/R
38-4530	Tool Box	2 40 1	46-2413	Shim - Front Pinion Bearing	16 * A/R
38-4550	Instrument Cover	1 28 1	46-2414	Shim - Front Pinion Bearing	16 * A/R
38-4600	Bar - Frame L.H.	5 23 1	46-2415	Shim - Front Pinion Bearing	16 * A/R
39-8020	Trim-Instrument Cover	1 31 1	46-2416	Shim - Front Pinion Bearing	16 * A/R

\*Not Illustrated

# TORO PART NUMBER INDEX (Cont.)

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Part No.	Description	Pg. Ref. No. Qty.	Part No.	Description	Pg. Ref. No. Qty.
46-2420	Shim - Front Pinion Bearing	16 * A/R	66-1930	Nut - Lock	19 6 1
46-2421	Shim - Front Pinion Bearing	16 * A/R	66-1940	Piston	19 5 1
46-2422	Shim - Front Pinion Bearing	16 * A/R	66-1950	Gland	19 3 1
46-2423	Shim - Front Pinion Bearing	16 * A/R	66-1960	Seal Kit	19 2 1
46-2424	Shim - Front Pinion Bearing	16 * A/R	66-2990	Cup - Spindle	18 50 2
46-2425	Shim - Front Pinion Bearing	16 *22 A/R	66-3240	Cap - Pressure Radiator	5 6 1
46-2426	Shim - Front Pinion Bearing	16 * A/R	66-6140	Decal - Toro	5 9 1
46-6390	Drive Coupling	20 18 1	66-6370	Lift Arm	34 1 1
46-8400	Needle Bearing	23 53 2	66-6390	Decal - Caution	1 4 1
46-8410	Motor Shaft	23 58 1	66-7150	Push Arm RH	34 9 1
46-8810	Stop - Leaf Spring	21 56 1	66-9760	Nut - Hex.	11 2 1
46-8840	Spring Lift Arm	34 14 1	66-9970	Spring Kit	12 * 1
48-1800	Cylinder Block Kit	22 5 2	66-9980	Seal Kit	12 * 1
48-7630	Screw - Metric	5 5 2	66-9990	Needle Roller Kit	12 * 1
48-7710	Screw - Cap, Hex Hd.	28 32 1	67-1710	Decal - Caution	1 27 1
48-7730	Screw - Metric	29 5 1	67-1720	Decal - Torque	2 41 2
48-7780	Screw - Metric	29 33 2	67-1750	Bushing - Axle	18 21 6
48-7800	Screw - Metric	29 8 3	67-5450	Piston	26 6 1
48-7890	Nut - Metric	5 3 2	67-5460	Head	26 5 1
48-7930	Nut Metric	29 32 2	67-5470	Ring - Retaining	26 4 1
48-9470	Screw - Metric	29 27 3	67-5480	Shaft	26 2 1
53-4420	Decal - Fuel	2 38 1	67-5500	Repair Kit	26 3 1
53-4430	Decal - Oil	14 39 1	67-8020	Pump Shaft	22 20 1
53-9480	Washer - Snubber	31 21 2	67-8050	Needle Bearing	22 35 1
53-9480	Washer - Snubber	29 35 2	67-8060	Lip Seal	22 36 1
53-9660	V-Belt Torque Team	7 12 1	67-8190	Bracket - Engine Support	6 20 2
53-9680	Mount - Engine	31 20 2	67-8240	Bracket - Throttle	28 23 1
53-9680	Mount - Engine	29 46 2	67-8250	Rod - Throttle	28 16 1
54-7890	Pump Housing	22 22 1	67-8260	Mount - Engine	29 37 1
54-9040	Yoke - End (Split)	8 63 1	67-8310	Mount - Engine	29 13 1
54-9180	Kit - U-Joint	8 58 2	67-8340	Bar - Spacer	29 16 1
54-9290	Bracket	20 29 2	67-8350	Bracket - Guide Belt	29 15 1
54-9300	Cover	20 28 1	67-8360	Governor	28 14 1
55-3574	Cap - Tank Fuel	14 11 1	67-8370	Hub	32 4 1
55-4300	Warning Decal	34 12 3	67-8380	Pulley - Fan	28 7 1
56-2460	Washer	18 45 A/R	67-8390	Spacer - Fan	28 6 1
56-7980	Sleeve - Protective	14 17 1	67-8420	Bracket - Muffler	31 15 1
59-9740	Latch - Draw	5 20 1	67-8440	Plate - Support Engine	31 25 1
60-9760	Nut	25 7 1	67-8460	Pulley - Engine	29 42 1
60-9760	Nut - Hex	26 7 1	67-8480	Support - Engine Rear	31 18 1
60-9770	Piston	25 6 1	67-8510	Belt - Fan	28 5 1
60-9780	Head	25 5 1	67-8520	Belt - Alternator	29 40 1
61-4960	Repair Kit	25 3 1	67-8540	Cable - Ground	4 4 1
61-4980	Shaft - w/Clevis	25 2 1	67-8550	Engine Temperature Gauge	3 11 1
61-4990	Ring - Retaining	25 4 1	67-8560	Throttle & Choke Control	3 31 2
62-3010	Bracket - R.H.	6 15 1	67-8590	Radiator Assembly	5 37 1
62-3020	Bracket - L.H.	6 17 1	67-8640	Shroud - Radiator	5 17 1
62-3290	Shaft - Slip Yoke	8 60 1	67-8660	Hose - Radiator Lower	5 21 1
62-3790	Tube - Slip Yoke	8 62 1	67-8690	Support - Column	11 7 1
62-3800	Yoke - End	8 57 1	67-8880	Decal - Groundsmaster 345	5 8 2
62-3820	Fitting - Grease	8 59 2	67-8890	Arm - Idler	29 12 1
62-4250	Cylinder - Hydraulic	24 21 1	67-8900	Spacer - Alternator	29 38 1
62-4260	Drive Shaft Assembly	7 44 1	67-8910	Spacer - Pulley	29 19
62-4290	O-Ring	23 54 2	67-8920	Shield - Heat	28 27 1
62-6840	Sender - Fuel Level	14 6 1	67-8940	Connector - Outlet	31 5 1
62-7020	Wheel & Tire Assembly	14 * 2	67-8960	Weight - Axle Rear	18 1 1
62-7650	Gasket - Tank Fuel	14 5 1	67-9010	Spacer - Alternator	29 31 1
63-1400	Rod - Belt	30 54 1	67-9030	Grille - Radiator	5 38 1
63-7590	Relay	3 23 1	67-9080	Motor Housing	22 4 1
63-7630	Hose - Vent Fuel	14 10 1	67-9090	Plug	22 42 1
63-8140	Pulley - Idler	29 11 1	67-9100	Gasket	22 10 1
63-8360	Key	3 12 1	67-9120	Muffler	31 16 1
63-8960	Hose Assembly	5 32 1	67-9130	Pipe - Muffler	31 11 1
63-8970	Hose - Trans. to Steering	11 14 1	67-9150	Support - Governor	28 30 1
63-8980	Hose - Aux. to Valve	11 22 1	67-9800	Bumper	34 37 3
63-8990	Hose	24 15 1	68-5140	Cap - Wheel, Steering	11 46 1
63-8990	Hose	11 23 1	68-5370	Decal - Toro	11 1 1
63-9010	Hose Assembly	5 24 1	68-8610	Fender - Extension	2 42 1
63-9260	Manifold - Valve	24 17 1	68-8660	Elbow	20 31 1
66-1250	Cylinder - Hydraulic	24 * Opt.	68-8990	Head - Filter	20 33 1

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Part No.	Description	Pg. Ref. No. No. Qty.	Part No.	Description	Pg. Ref. No. No. Qty.
68-9160	Bracket	5 29 1	82-8770	Elbow	11 21 1
68-9650	Hose - Axle	20 37 1	82-8930	Decal - Parking Brake	9 12 1
68-9710	Hose - Steering Cylinder	14 16 2	82-8940	Decal - Steering, Tilt	11 44 1
68-9720	Hose - Cylinder to Steering	11 19 1	82-8970	Decal - Coolant Engine	5 2 1
68-9730	Hose - Steering to Cylinder	11 18 1	82-8980	Frame	1 3 1
68-9760	Base - Tank Fuel	14 40 1	82-9010	Disc - Friction	11 38 1
70-1380	Sleeve - Protective	11 17 1	83-7260	Relief Valve Cone	22 31 2
70-1390	Sleeve - Protective	11 15 1	84-4890	Assembly - Drive Shaft	8 * 1
70-1630	Hose - Radiator Upper	5 14 1	84-5330	Bracket - Hood Prop	5 50 1
70-1660	Bracket - E.S.C.	5 42 1	84-5380	Strap - Hood Prop	5 49 1
70-1670	Hose - Heater	31 4 1	84-8500	Lever - P.T.O.	7 2 1
70-1690	Adapter - Gauge Temp.	31 2 1	84-8520	Bracket - P.T.O. Switch	7 6 1
70-1790	Strip - Foam Sealing	5 34 1	84-8600	Shoe & Lining Assembly	17 9 1
70-1890	Guard - Flywheel	6 18 1	85-7470	Decal - Instrument Panel	3 2 1
70-1910	Hose - Vac. Advance	29 25 1	86-5240	Wire - Harness Assembly	4 2 1
70-1920	Hose - Vacuum	29 20 1	86-7040	Rod - Seat Prop	6 6 1
70-2040	Guard - Trim	28 29 1	86-7050	Bracket - Switch Actuator	8 73 1
70-2050	Hose - Breather	31 8 1	86-7060	Bracket - Hood Hold Down	5 54 1
70-2060	Cover - Governor	32 8 1	86-7220	Gear - Transmission Output	20 44 1
70-2070	Lever - Speed Adjusting	32 21 1	86-7230	Spur-Gear	15 14 1
70-2080	Body	32 36 1	86-7920	Cover - Spark Plug Wire	31 41 3
70-2090	Stud - Pivot Lever	32 22 1	86-7921	Cover - Spark Plug Wire	31 40 1
70-2100	Sleeve & Bearing Assy.	32 18 1	86-8100	Ball Joint Assembly	34 33 2
70-2110	Main Shaft & Yoke	32 17 1	86-9370	Panel - Instrument	3 1 1
70-2120	Spacer	32 43 1	86-9400	Support - Radiator	5 40 1
70-2130	Clamp - Bearing to Cover	32 13 1	86-9410	Support - Seat	5 52 1
70-2140	Bearing - Front	32 12 1	86-9580	Upper Housing	16 26 1
70-2150	Flyweight	32 15 2	86-9600	Front Axle Assembly	14 27 1
70-2160	Bracket - Speed Stop	32 2 1	88-0070	Floor Plate	2 47 1
70-2200	Decal - Toro	1 2 1	88-0470	Tube - Pedal Spacer	10 49 1
70-2620	Elbow - 90°	20 38 1	88-0530	Pedal - Traction	9 18 1
71-4540	Washer - Thrust	18 7 2	88-1640	Pin - Traction Pedal	9 20 1
71-4770	Screw	32 45 2	88-1650	Shaft - Traction Pedal	9 22 1
71-4780	Seal - Oil Rocker Shaft	32 27 1	88-1670	Bracket - Pivot	9 23 1
72-3690	Fender	1 9 2	88-1680	Bracket - Footrest	9 48 1
72-3750	Roller Bearing	22 2 1	88-1710	Footrest	10 50 1
72-4320	Switch - Ball	7 3 1	88-1720	Pad - Footrest	10 51 1
72-4320	Switch - Ball	6 14 1	88-1730	Pad - Front Pedal	9 47 1
72-5850	Pin - Force Idle	32 25 1	88-1740	Pad - Rear Pedal	9 19 1
72-5860	Spring - Governor	32 24 1	92-1661	Hose - Fuel	14 44 1
72-5860	Spring - Governor	32 24 1	92-1662	Hose - Fuel	14 22 1
72-5870	Eyebolt	32 33 1	92-1773	Screw - Cap, Hex. Hd.	15 11 4
72-5880	Throttle Lever Assy.	32 32 1	92-1774	Oil Seal	17 2 2
72-5890	Shaft - Rocker	32 30 1	92-4058	Arm - P.T.O.	7 30 1
72-5910	Bumper Screw Assy.	32 34 1	92-4060	Fork P.T.O.	7 24 1
72-5920	Screw	32 3 1	92-4848	Gear & Pinion Assembly	16 * 1
72-5930	Screw	32 26 1	92-4903	Assy. - Upper Hsg., 2WD	16 * 1
72-5940	Bearing - Needle	32 20 1	92-5723	Bushing - P.T.O. Fork	7 23 2
72-9420	Vent Tube Assembly	16 39 1	92-5727	Screw - Cap, Hex. Hd.	7 22 2
74-0720	Tube - Manual	6 2 1	92-5838	Ball Joint	18 10 2
74-9510	Washer	23 60 4	92-7308	Valve - Steering, Power	11 25 1
75-0560	Steering Wheel Assembly	11 3 1	92-7310	Bolt - Special	12 36 4
75-9900	Support - Engine Front	29 9 1	92-7314	Assembly - Column	12 * 1
76-1900	O-Ring	22 18 2	92-7315	Seal	12 28 1
76-8750	Decal - Warning	5 13 1	92-7316	Nut - Push On	12 38 4
77-3100	Decal - Warning	5 15 2	92-7317	Foam	12 39 1
77-3120	Bracket - Mount, Column	11 9 1	92-7800	Cover - Battery Access	1 30 1
80-2880	Bracket - Steering, Tilt	11 40 1	92-7801	Shield - Cover, Battery	2 52 1
80-2890	Handle - Steering, Tilt	11 34 1	92-7802	Decal - Starting Instructions	1 29 1
80-2930	Washer	11 39 1	92-7803	Support - Axle Rear	18 5 1
80-2940	Plate - Pivot	11 29 1	92-7807	Pin - Axle Rear	18 47 1
80-2960	Spacer - Tower	11 10 2	92-7816	Axle - Rear	18 20 1
80-2970	Pin - Steering, Tilt	11 33 1	92-7821	Pivot - Steering	18 38 1
80-2980	Boss - Pin	11 32 1	92-7823	Spindle Assy. L.H.	18 23 1
80-3330	Gasket	33 18 1	92-7825	Spindle Assembly R.H.	18 46 1
82-5590	Hose - Air Cleaner	33 9 1	92-7828	Cylinder - Hydraulic	19 * 1
82-8650	Clamp - Half	11 37 1	92-7828	Cylinder - Hydraulic	18 11 1
82-8660	Cover - Tower	11 5 1	92-7833	Hose - Valve to Cylinder	24 19 1
82-8670	Rod - Brake Latch	9 10 1	92-7834	Hose	24 22 1
82-8760	Elbow	11 12 1	92-8775	Gasket Kit - Liquid	17 20 2

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Part No.	Description	Pg. No.	Ref. No.	Qty.	Part No.	Description	Pg. No.	Ref. No.	Qty.
92-8776	Plug	23	61	2	251-8	Ball Bearing	22	46	1
92-8777	O-Ring	23	62	2	251-234	Lock Collar	7	41	2
92-8918	Center Section	23	55	1	251-252	Ball Bearing	7	40	2
92-8947	Transmission - Inline	20	42	1	251-252	Bearing	29	49	1
212-93	Wire Clip	8	53	1	251-259	Ball Bearing	20	5	1
217-106	Wheel	18	30	2	252-82	Needle Bearing	22	23	2
217-116	Rim - 23 x 10.5 x 12	14	*	2	253-129	Closure	18	36	2
217-117	Rim	14	29	2	254-65	Cone - Tapered Bearing	16	28	2
218-461	Nut - Jam	6	7	2	254-66	Cup - Tapered Bearing	16	27	2
218-461	Nut - Jam	8	70	2	254-72	Cup - Bearing	18	26	4
218-515	Mounting Bracket	3	22	1	254-90	Bearing Cup	16	24	1
218-516	Lens	3	4	1	254-91	Bearing Cone	16	23	1
218-539	Clamp	3	9	1	254-94	Cone - Bearing	18	27	4
2112-6	Clamp - Muffler	31	12	1	256-10	Bushing	9	43	4
231-90	Tube - Inner (Optional)	14	*	2	256-121	Bushing - Thrust	18	22	2
231-95	Tire - 23 x 10.5 x 12	14	*	2	256-126	Bushing	34	16	6
231-101	Tire	14	28	2	256-156	Bushing	9	6	5
231-105	Tire	18	28	2	256-242	Bushing	18	44	2
232-27	Stem - Valve - 23 x 10.5 x 12	14	*	2	283-10	Pin	34	40	1
232-31	Stem - Valve	14	31	2	283-17	Pin	24	26	1
232-31	Stem - Valve w/Cap	18	34	2	283-42	Clevis Pin	7	7	1
233-17	Knob	9	11	1	283-58	Pin - Clevis	9	14	2
233-21	Knob	24	3	1	283-74	Clevis Pin	7	26	1
233-21	Knob - Handle	11	35	1	283-76	Pin - Lynch	5	53	1
233-35	Knob - Control	3	3	2	285-17	Pipe Plug	22	12	2
237-7	Seal - O-Ring	6	8	1	285-17	Plug - Pipe	32	9	2
237-7	Seal - O-Ring	8	69	1	289-37	Nipple - Pipe	14	37	1
237-22	O-Ring	24	29	2	2811-9	Elbow - Street	14	36	1
237-22	O-Ring	22	13	1	302-2	Grease Fitting	7	39	1
237-22	O-Ring	18	14	1	302-5	Fitting	18	19	3
237-22	O-Ring	11	20	3	302-5	Fitting - Grease	9	44	2
237-22	O-Ring	21	58	1	302-5	Grease Fitting	34	13	1
237-30	O-Ring	24	30	2	302-5	Grease Fitting	34	34	2
237-30	O-Ring	11	13	3	302-10	Fitting - Grease	7	10	1
237-30	O-Ring	21	59	1	302-10	Fitting - Grease	29	47	1
237-30	Seal - O-Ring	7	4	1	302-11	Fitting	18	15	1
237-30	Seal - O-Ring	6	13	1	302-33	Grease Fitting	34	28	2
237-42	O-Ring	24	31	2	302-40	Fitting - Grease 90°	18	4	2
237-42	O-Ring	27	2	2	302-55	Fitting - Grease	25	1	2
237-42	O-Ring	21	57	2	302-55	Grease Fitting	26	1	2
237-78	O-Ring	24	32	2	302-58	Fitting - Grease	8	61	1
237-78	O-Ring	18	12	1	304-46	Draincock	5	22	1
237-80	O-Ring	20	30	1	304-73	Fitting - Straight Barb	24	23	1
237-80	O-Ring	22	33	1	304-75	Fitting - 90° Barb	24	20	1
237-81	O-Ring	20	32	3	321-2	Screw - Cap, Hex. Hd.	20	26	2
237-86	O-Ring	22	7	4	321-4	Screw - Cap Hex. Hd.	8	72	1
237-95	O-Ring	22	41	1	321-4	Screw - Cap, Hex Hd.	28	18	1
241-119	Cap - Dust	18	32	2	321-4	Screw - Cap, Hex. Hd.	20	27	2
242-34	Axle Flange Stud	17	11	10	321-6	Screw - Cap Hex Hd.	14	25	1
242-50	Nut - Wheel	18	31	10	321-6	Screw - Cap Hex. Hd.	5	51	1
249-21	Hook Clamp	1	14	3	321-6	Screw - Cap, Hex Hd.	28	24	2
249-40	Keeper	5	11	1	321-6	Screw - Cap, Hex. Hd.	20	47	2
2412-3	Clamp - Hose	5	7	4	321-23	Screw - Cap, Hex. Hd.	24	14	5
2412-6	Clamp	14	9	1	321-39	Screw - Cap, Hex Hd.	28	28	2
2412-31	Clamp - Cable	28	20	1	321-39	Screw - Cap, Hex Hd.	5	45	2
2412-34	Clamp - Hose	20	36	2	322-3	Screw - Cap, Hex Hd.	14	19	2
2412-36	Clamp	11	24	2	322-3	Screw - Cap, Hex. Hd.	33	1	4
2412-36	Clamp - Hose	24	16	1	322-4	Screw - Cap, Hex. Hd.	22	37	4
2412-39	Clamp	1	24	2	322-4	Screw - Cap, Hex. Hd.	11	43	1
2412-39	Clamp	5	35	2	322-5	Screw - Cap, Hex. Hd.	2	33	1
2412-39	Clamp - R	31	10	1	322-5	Screw - Cap, Hex. Hd.	3	17	2
2412-39	R-Clamp	14	18	1	322-6	Screw - Cap, Hex. Hd.	20	21	6
2412-42	Hose Clamp	33	10	2	322-8	Screw - Cap, Hex. Hd.	20	25	2
2412-74	Clamp	2	34	2	322-9	Screw - Cap Hex. Hd.	8	65	2
2412-96	Clamp - R	14	21	1	322-12	Screw - Cap, Hex Hd.	28	1	4
2412-108	Clamp	31	9	2	322-17	Screw - Cap, Hex. Hd.	20	8	1
2412-108	Clamp	14	23	3	323-3	Screw - Cap Hex. Hd.	6	23	1
2412-108	Clamp Hose	24	28	2	323-6	Screw - Cap, Hex. Hd.	11	27	2
2412-119	Clamp - Hose	31	3	2	323-7	Screw - Cap, Hex. Hd.	20	39	2
2412-133	R-Clamp	6	3	2	323-13	Screw - Cap, Hex. Hd.	22	3	4

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Part No.	Description	Pg. Ref. No. No. Qty.	Part No.	Description	Pg. Ref. No. No. Qty.
323-13	Screw - Cap, Hex. Hd.	9 32 2	3253-4	Washer - Lock	28 2 4
323-14	Screw - Cap, Hex Hd.	5 30 3	3253-4	Washer - Lock	1 8 2
324-4	Capscrew	34 19 2	3253-6	Lockwasher	34 7 2
324-11	Screw - Cap, Hex Hd.	31 22 2	3253-12	Washer - Lock	28 17 1
324-12	Capscrew	34 22 2	3253-17	Washer - Lock	14 41 1
324-12	Screw - Cap Hex. Hd.	29 34 2	3253-21	Washer - Lock	6 24 1
329-3	Screw - Cap, Hex. Hd.	32 16 2	3253-21	Washer - Lock	9 29 4
3210-7	Screw - Cap, Hex. Hd.	20 6 1	3253-21	Washer - Lock	14 34 2
3210-7	Screw - Cap, Hex. Hd.	15 19 8	3253-21	Washer - Lock	20 40 2
3217-5	Nut	28 22 1	3253-21	Washer - Lock	8 55 4
3217-6	Nut	1 10 2	3254-1	Washer - Lock	3 6 6
3217-6	Nut	33 11 2	3254-2	Washer - Lock Internal	2 50 1
3217-6	Nut	3 19 2	3254-2	Washer - Lock, Int. Tooth	3 18 6
3217-7	Nut - Hex	9 28 2	3254-7	Washer - Lock	7 15 1
3217-8	Full Nut	34 8 2	3254-9	Washer - Lock	20 49 2
3217-9	Nut	6 27 2	3255-5	Washer - Lock	3 20 1
3217-16	Nut	20 48 2	3255-7	Washer - Lock	20 50 3
3217-26	Nut - Hex.	3 21 1	3255-8	Washer - Lock	15 2 8
3217-29	Nut - Hex.	3 33 5	3255-24	Washer - Lock	3 32 5
3218-5	Nut - Jam	9 3 2	3256-2	Washer - Flat	28 3 4
3218-7	Nut - Jam	11 42 1	3256-3	Washer - Flat	20 23 4
3219-1	Nut	32 1 2	3256-3	Washer - Flat	11 28 4
3219-2	Nut	15 1 8	3256-5	Washer - Flat	6 26 2
3219-2	Nut	32 29 2	3256-6	Washer - Flat	7 20 1
3219-2	Nut - Hex	20 9 1	3256-6	Washer - Flat	20 53 1
3219-3	Nut	7 33 1	3256-21	Washer - Flat	29 23 1
3219-7	Nut - Hex.	7 16 1	3256-22	Washer - Flat	9 8 1
3219-14	Nut	3 5 6	3256-22	Washer - Flat	28 19 1
3219-14	Nut	14 42 1	3256-22	Washer - Flat	5 48 1
3219-14	Nut - Hex	28 10 3	3256-25	Flat Washer	34 6 1
3220-3	Nut - Jam	9 27 1	3256-26	Washer - Flat	9 40 1
3220-3	Nut - Jam	18 42 8	3256-28	Washer - Flat	7 14 4
3220-5	Nut - Jam	9 46 1	3256-28	Washer - Flat	18 35 2
3220-5	Nut - Jam R.H. Thread	18 40 2	3256-41	Washer - Flat	7 36 4
3220-6	Nut	12 27 1	3256-46	Washer - Flat	11 26 2
3220-6	Nut - Jam	18 37 4	3256-56	Washer - Flat	28 25 1
3220-12	Nut - Jam L.H. Thread	18 * 2	3257-5	Key - Woodruff	7 11 3
3229-1	Bolt - Carriage	2 36 5	3257-32	Woodruff Key	20 15 1
3230-1	Bolt - Carriage	10 52 2	3257-32	Woodruff Key	22 21 1
3230-2	Bolt - Carriage	14 14 3	3257-33	Key - Woodruff	29 43 1
3231-21	Bolt - Carriage	9 31 2	3258-19	Round Hd. Machine Screw	33 4 2
3231-22	Bolt - Carriage	29 14 2	3269-10	Washer	5 46 2
3231-28	Bolt - Carriage	29 10 1	3269-13	Rivet	5 12 2
3234-1	Screw - Cap, Flange Hd.	5 18 2	3272-5	Pin - Cotter	9 7 3
3234-5	Screw - Lock, Flange Hd.	28 26 1	3272-6	Cotter Pin	24 8 1
3234-6	Screw - Cap Flange Hd.	6 19 2	3272-6	Pin - Cotter	9 21 6
3234-11	Capscrew w/Locking Flange	1 23 5	3272-10	Cotter Pin	7 8 1
3234-11	Screw - Cap Flange Hd.	6 21 6	3272-10	Cotter Pin	34 38 3
3234-11	Screw - Cap, Hex. Hd.	9 39 3	3272-10	Cotter Pin	21 54 1
3234-11	Screw - Flange Lock	29 36 4	3272-11	Cotter Pin	34 2 2
3234-11	Screw - Flange Lock	31 39 4	3272-11	Pin - Cotter	7 28 1
3234-11	Screw - Lock, Flange Hd.	28 33 2	3272-13	Pin - Cotter	18 33 2
3234-12	Screw - Flange Hex. Hd.	1 7 4	3272-22	Pin - Cotter	7 17 2
3234-13	Screw	18 49 2	3272-24	Cotter Pin	34 10 1
3234-14	Screw - Cap, Hex. Hd.	2 43 2	3272-33	Cotter Pin	34 17 1
3234-14	Screw - Flange, Hex Hd.	5 19 6	3274-47	Screw - Flat Hd. Socket	9 33 1
3234-14	Screw - Self Tapping	18 48 1	3290-134	Screw Machine Hex. Hd.	3 25 4
3234-17	Screw - Cap Flange Hd.	6 16 4	3290-144	Screw - Machine	1 15 6
3234-17	Screw - Cap, Hex. Hd.	11 8 2	3290-224	Washer - Pyramidal	30 55 1
3234-18	Screw - Hex. Hd. Flange	30 56 1	3290-271	Rivet	5 10 4
3234-25	Screw - Hex. Flange Hd.	2 48 4	3290-357	Nut - Lock, Flange	29 2 12
3234-32	Screw - Hex Hd. Flange	18 3 6	3290-357	Nut - Lock, Flange	31 14 5
3241-5	Square Hd. Set Screw	20 16 2	3290-357	Nut - Lock, Flange	28 15 2
3245-1	Screw - Set	7 46 2	3290-357	Nut - Lock, Flange	6 22 6
3245-5	Screw - Set	30 52 2	3290-357	Nut - Lock, Flange	1 25 5
3246-3	Screw - Set	7 29 4	3290-360	Screw Machine Hex. Hd.	3 26 1
3249-11	Screw - Round Hd. Mach.	20 1 2	3290-378	Cable Tie	1 21 2
3250-29	Screw - Pan Hd.	29 22 1	3290-379	Cable - Tie	30 58 3
3253-3	Washer - Lock	14 2 2	3290-379	Cable Tie	3 24 1
3253-3	Washer - Lock	28 21 1	3290-379	Tie - Cable	11 16 3

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3290-379	Tie - Cable	5	31	4	32128-20	Nut - Lock, Flange Hd.	33	13	4
3296-2	Nut - Lock	1	17	6	32128-21	Nut - Flange Head	5	25	3
3296-5	Nut - Lock	32	23	1	32128-21	Nut - Lock, Flange	1	6	10
3296-6	Nut - Lock	7	34	1	32128-23	Nut - Lock, Flange	18	2	4
3296-12	Nut - Lock	3	29	5	32128-23	Nut - Lock, Flange	29	44	2
3296-16	Nut - Lock	5	47	1	32128-25	Nut - Flange Lock	10	53	2
3296-16	Nut - Lock	8	74	1	32128-33	Nut - Lock, Flange	28	8	4
3296-20	Nut - Lock	28	12	1	32128-33	Nut - Lock, Flange	5	39	2
3296-20	Nut - Lock	14	15	2	32128-37	Nut - Lock, Flange	31	19	2
3296-20	Nut - Lock	11	30	4	32128-37	Nut - Lock, Flange	29	45	2
3296-28	Nut - Lock	7	27	1	32128-42	Nut - Flange	34	27	4
3296-29	Nut - Lock	20	4	1	32136-2	Nut	34	3	2
3296-29	Nut - Lock	11	36	2	32136-5	Nut - Slotted	18	29	2
3296-29	Nut - Lock	8	64	2	32144-10	Screw - Hex. Self-Tapping	5	1	5
3296-42	Nut - Lock	20	10	6	32144-10	Screw - Hex. Thd. Form	11	6	6
3296-42	Nut - Lock	24	10	5	32144-10	Screw - Self Tapping	24	4	2
32103-2	Nut - Wing	1	13	2	32144-10	Screw - Self Tapping	6	4	2
32103-2	Nut - Wing	5	41	2	32144-10	Screw - Self Tapping	2	44	11
32104-6	Screw - Hex. Hd. Tapping	8	56	4	32144-21	Screw	11	45	1
32104-6	Screw - Self Tapping	14	35	2	32144-53	Screw - Thread Forming	14	7	5
32104-96	Screw - Cap, Hex Hd.	14	3	1	32144-67	Screw - Thread Forming	14	32	4
32104-116	Screw - Flange, Hex Hd.	5	16	4	32146-20	Nut - Lock	18	6	1
32107-11	Nut	33	2	2	32149-2	Nut	9	37	1
32120-8	Retaining Ring	22	1	1	32151-36	Ring - Retaining	18	16	3
32120-11	Retaining Ring	22	47	1	32151-46	Retaining Ring	22	27	2
32120-15	Retaining Ring	22	45	1	32151-104	Ring - Retaining	18	9	2
32120-22	Ring - Retaining	7	42	2	32152-1	Nut - Lock	20	19	8
32120-22	Ring - Retaining Int.	29	50	1	32153-2	Nut - Hex.	11	11	2
32120-69	Ring - Retaining Ext.	30	51	1	32153-2	Nut - Lock	9	30	2
32120-72	Ring - Retaining External	20	43	1	32153-2	Nut - Lock	30	57	1
32121-6	Roll Pin	20	11	1	340-54	Fitting - 45°	18	13	1
32121-9	Pin - Roll	7	49	1	340-70	Nut - Lock, Bulkhead	5	28	2
32121-15	Roll Pin	16	30	1	340-71	Union - Bulkhead	5	27	2
32121-16	Pin - Roll	9	24	1	340-77	Elbow	20	12	1
32121-24	Roll Pin	21	55	1	340-97	Fitting - 90°	24	25	1
32121-34	Pin - Roll	7	45	2	340-99	Fitting - 90° Elbow	24	12	1
32121-51	Pin - Hub To Shaft	32	44	1	340-99	Elbow	20	13	1
32121-73	Pin Slotted Spring	24	9	1	340-110	Elbow - 90°	24	24	1
32121-84	Roll Pin	34	25	2	340-112	Elbow 90°	24	18	1
32121-91	Coil Spring Pin	22	49	3	353-508	Plug - Drain	20	41	1
32128-13	Nut - Lock, Flange	2	37	5	353-512	Plug	24	1	1
32128-20	Nut - Flange	14	20	1	353-536	Fitting - Tank Fuel	14	8	2
32128-20	Nut - Flange	14	33	2	353-550	Plug - Hex. Hd.	22	19	2
32128-20	Nut - Flange	11	41	1	353-551	Hex. Hd. Plug	22	32	1
32128-20	Nut - Flange Head	5	26	6	353-987	Elbow	20	35	1
32128-20	Nut - Lock, Flange	2	35	1	384007-5	Clamp - Valve	29	{21	1

## PRODUCT CHANGES

In an effort to make improvements available to TORO owners as quickly as possible minor changes are incorporated into Toro's products from time to time that do not become immediately shown in the Parts Catalog. If such a change has been made in your unit which is not reflected in your manual see your TORO Distributor or his Authorized TORO Service Dealer for information and part numbers.

## IDENTIFICATION AND ORDERING

### MODEL AND SERIAL NUMBERS

The Groundsmaster 345 has two identification numbers; a model number and a serial number. The two numbers are stamped on a plate which is located on the main frame under the seat. In any correspondence concerning the Groundsmaster 345, supply model and serial numbers to assure that correct information and replacement parts are obtained.

To order replacement parts from an Authorized TORO Service Dealer supply the following information:

1. Model and serial number of the Groundsmaster 345.
2. Part number description and the quantity of part(s) desired.

**NOTE:** Do not order by reference number if a parts catalog is being used; use the PART NUMBER.

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