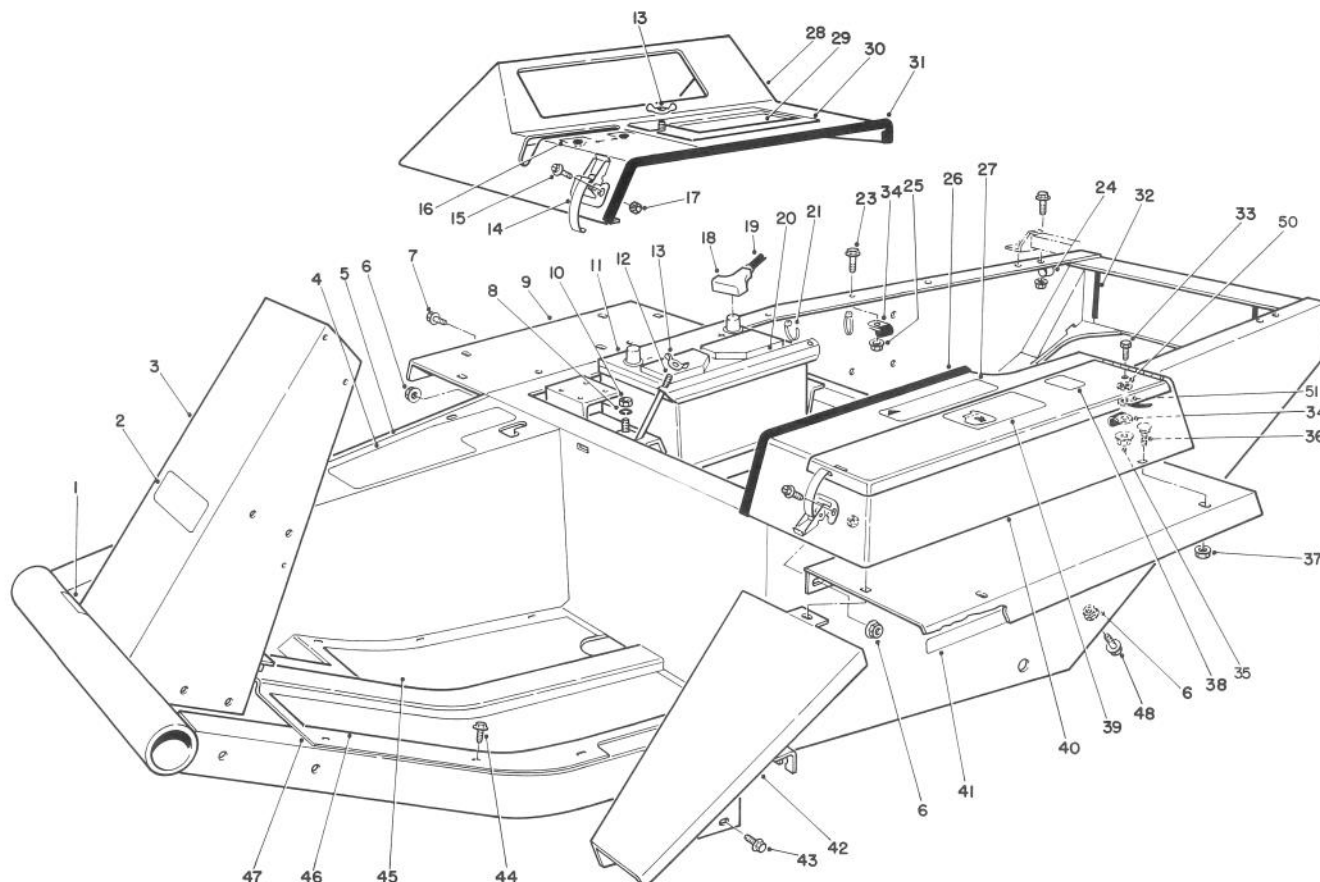




MODEL NO. 30789-30001 &amp; UP

PARTS  
CATALOG

# GROUNDMASTER® 345 TRACTION UNIT



T-0913A

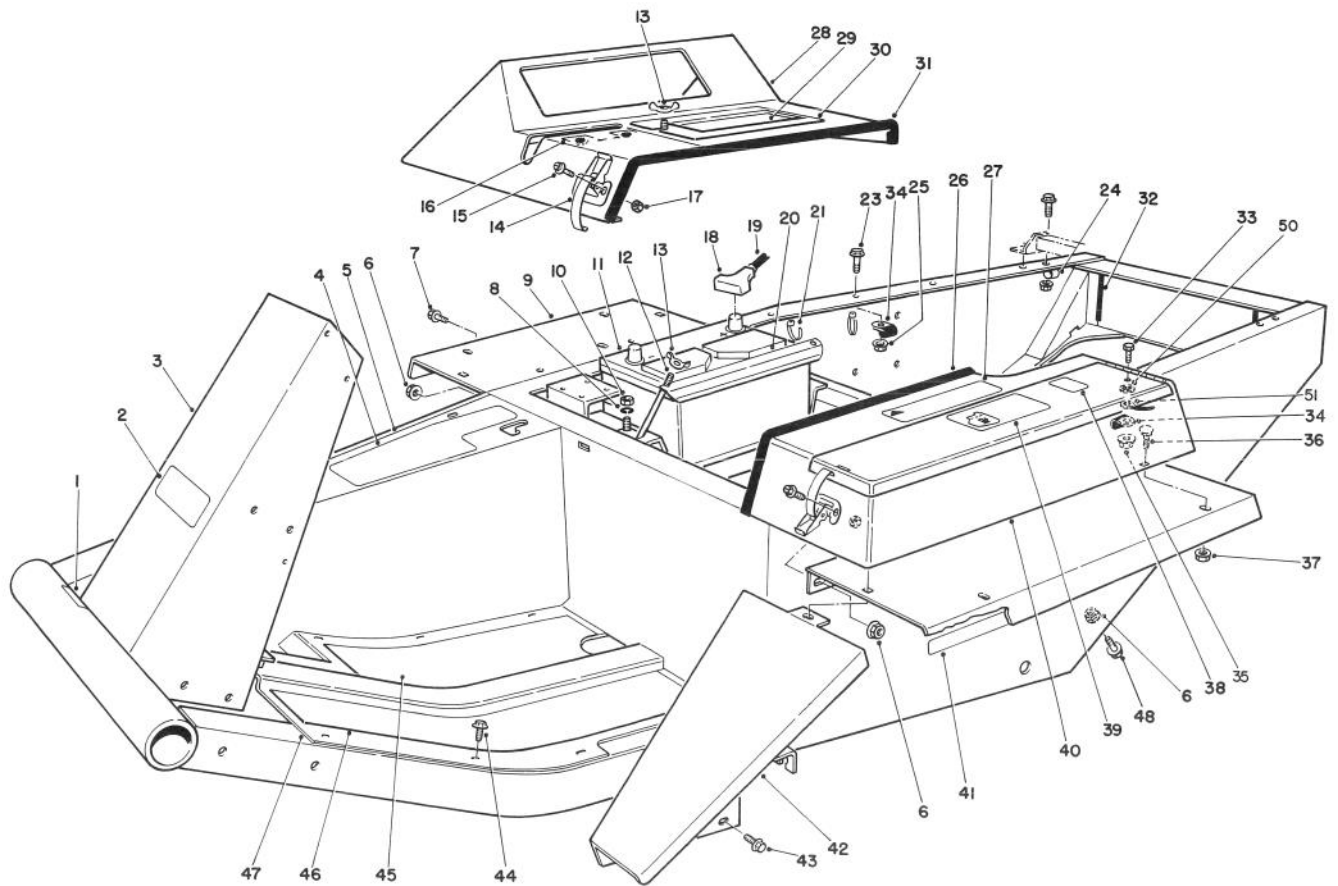
## MAIN FRAME ASSEMBLY

Ref. No.	Part No.	Description	No. Used
1	27-7320	Decal - Traction Pedal	1
2	70-2200	Decal - Toro	1
3	82-8980	Frame (Incl. Ref. #48)	1
4	66-6390	Decal - Caution	1
5	21-2660	Footrest	1
6	32128-21	Nut - Lock, Flange	10
7	3234-12	Screw - Flange Hex. Hd.	4
8	3253-4	Washer - Lock	2
9	72-3690	Fender	2
10	3217-6	Nut	2
†11		Battery (Group Size 24)	1
12	24-6390	Stud - Battery Hold Down	2
13	32103-2	Nut - Wing	2
14	249-21	Hook Clamp	3
15	3290-144	Screw - Machine	6

Ref. No.	Part No.	Description	No. Used
16	27-7290	Decal - Power Take Off	1
17	3296-2	Nut - Lock	6
18	28-1280	Boot - Cable	1
†19		Cable - Battery Positive	1
20	24-6420	Hold Down - Battery	1
21	3290-378	Cable Tie	2
23	3234-11	Capscrew w/Locking Flange	5
24	2412-39	Clamp	2
25	3290-357	Nut - Lock, Flange	5
26	37-9650	Trim	1
27	67-1710	Decal - Caution	1
28	38-4550	Instrument Cover	1
29	27-7280	Decal - Starting Instructions	1
30	24-9740	Cover - Battery Access	1
31	39-8020	Trim-Instrument Cover	1
32	43-4300	Trim - Rear Frame	2

†Obtain Locally

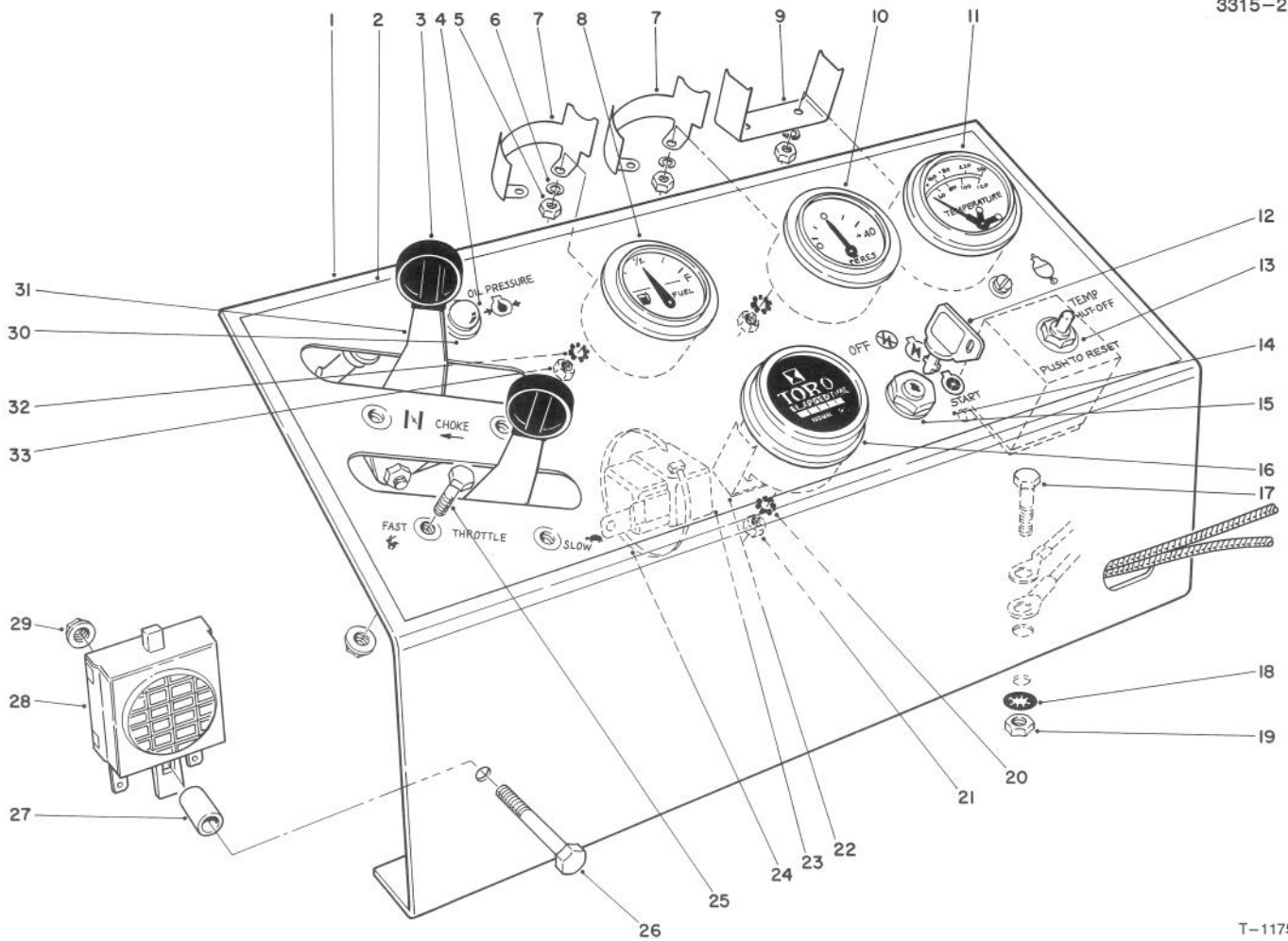
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T-0913A

## MAIN FRAME ASSEMBLY (Continued)

Ref. No.	Part No.	Description	No. Used	Ref. No.	Part No.	Description	No. Used
33	322-5	Screw - Cap, Hex. Hd.	1	42	68-8610	Fender - Extension	1
34	2412-74	Clamp	2	43	3234-14	Screw - Cap, Hex. Hd.	2
35	32128-20	Nut - Lock, Flange	1	44	32144-10	Screw - Self Tapping	11
36	3229-1	Bolt - Carriage	5	45	21-2770	Pad - Foot Rest R.H.	1
37	32128-13	Nut - Lock, Flange	5	46	21-2760	Pad - Foot Rest L.H.	1
38	53-4420	Decal - Fuel	1	47	88-0070	Floor Plate	1
39	27-7310	Decal - Refueling	1	48	3234-25	Screw - Hex. Flange Hd.	4
40	38-4530	Tool Box	1	50	3254-2	Washer - Lock Internal	1
41	67-1720	Decal - Torque	2	51	18-2770	Cable - Ground	1

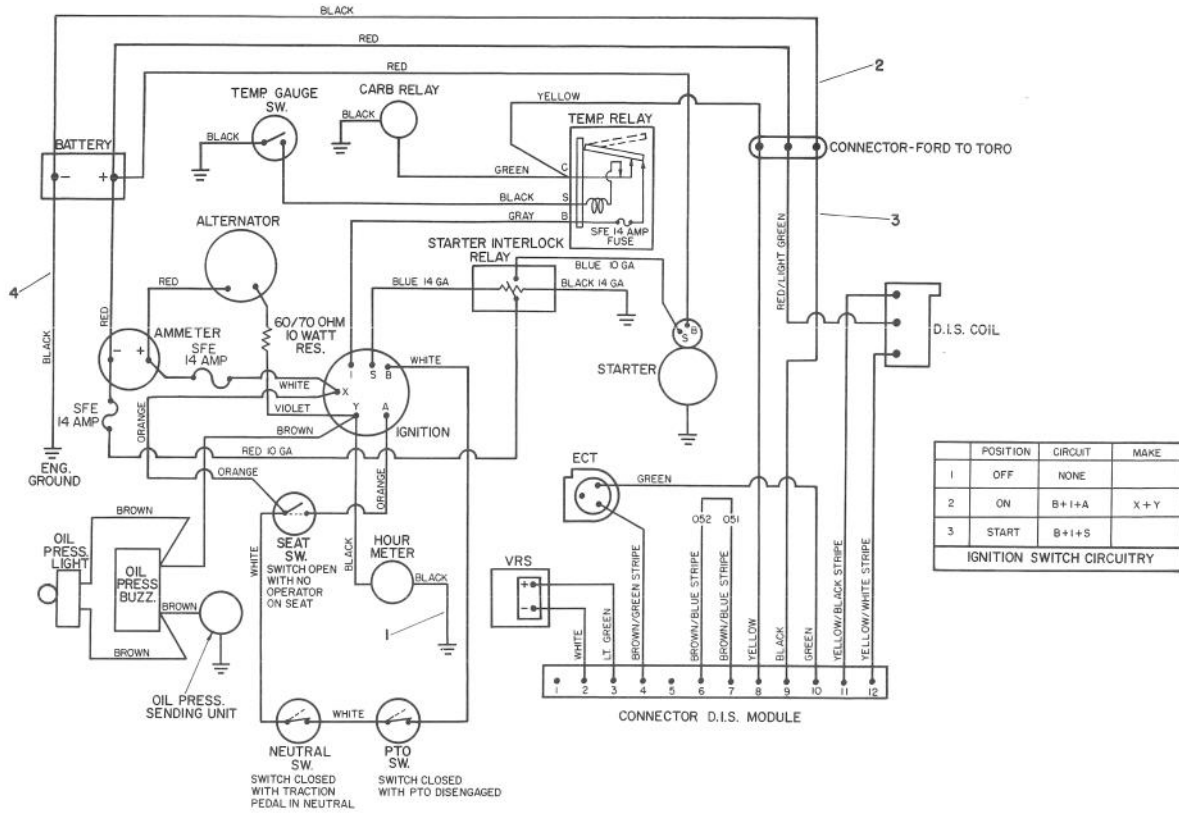


T-1175

## 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	32128-17	Nut - Lock, Flange	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

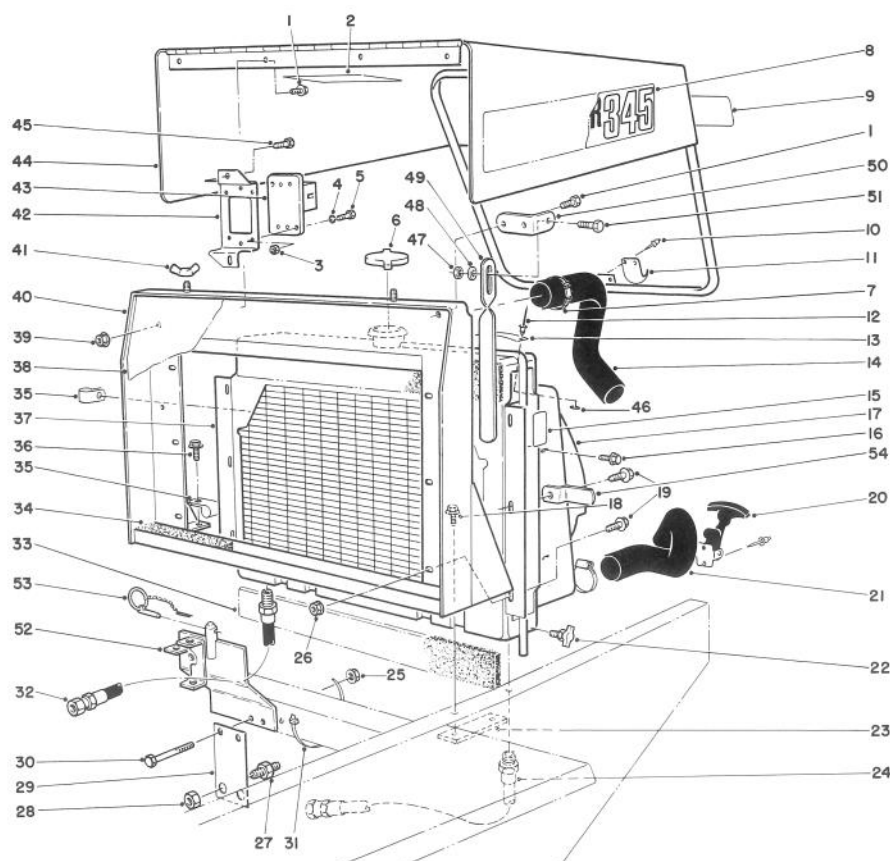
## ELECTRICAL SCHEMATIC

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	E9JL-12A200-AC	Wire - Harness (Ford)	1
4	67-8540	Cable - Ground	1

†Obtain from your local Ford Power Products Dealer.



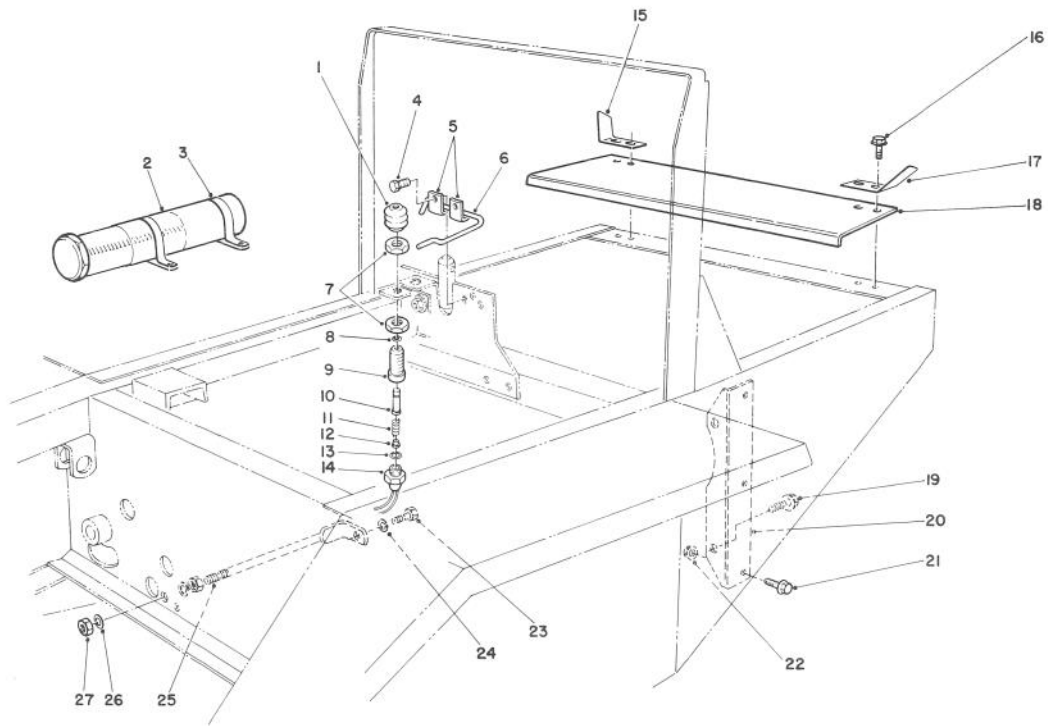


T-0916A

## 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 - Groundsmaster 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.

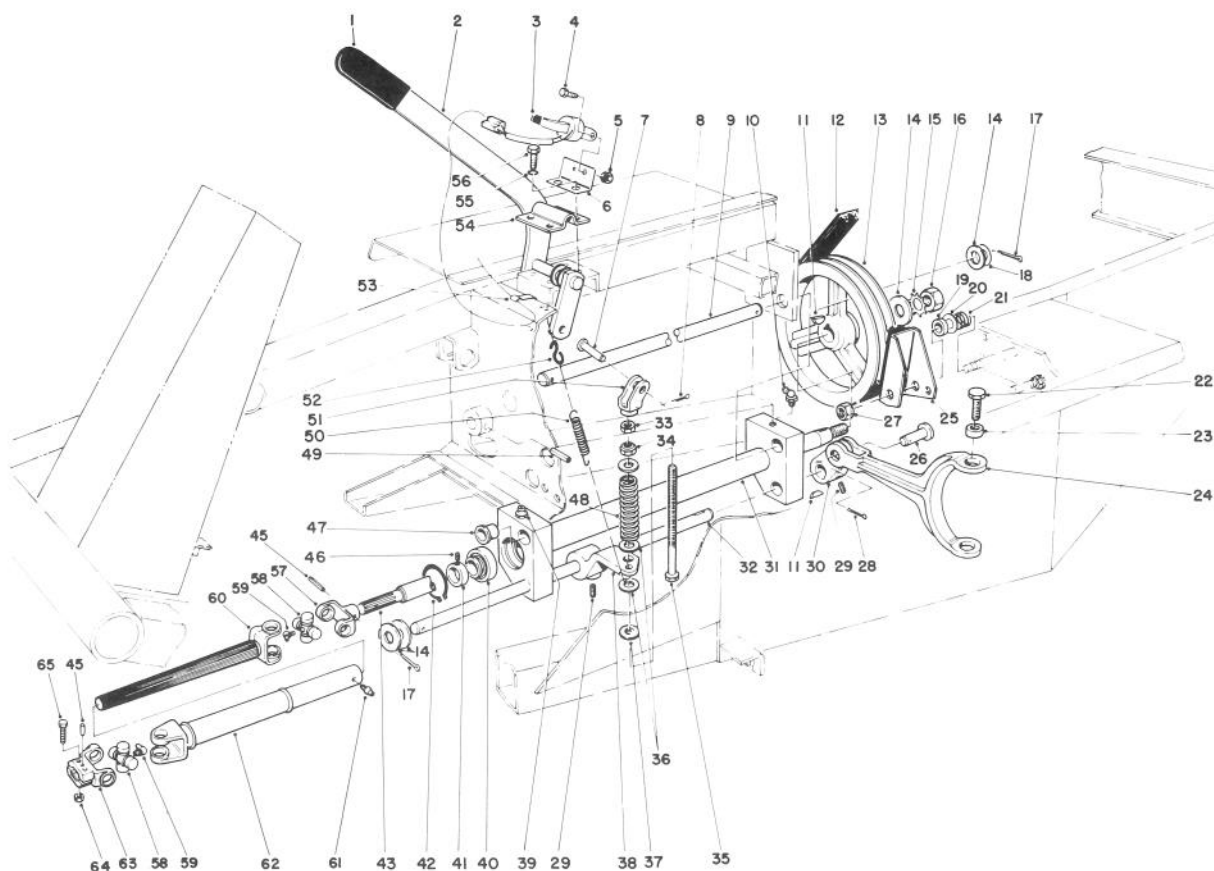


T-0917

## 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

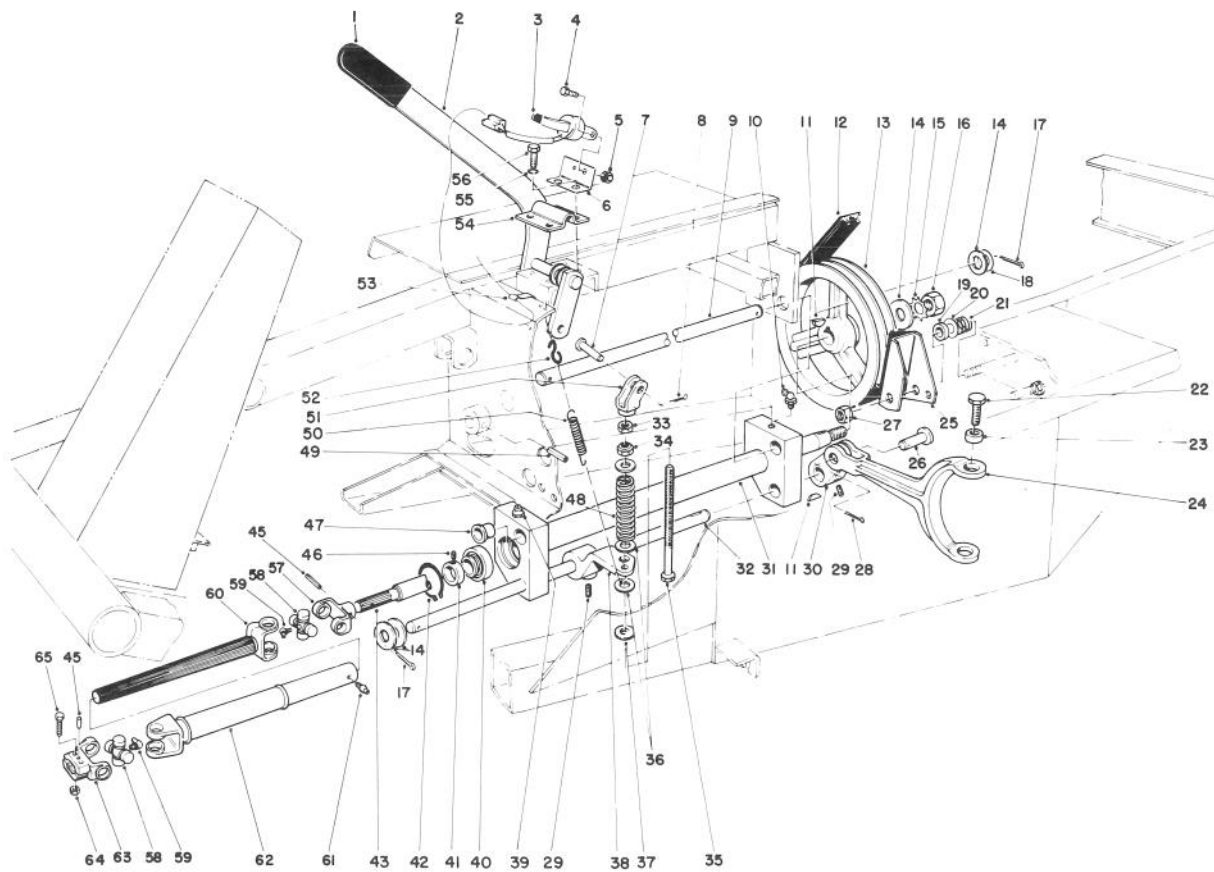
Ref. No.	Part No.	Description	No. Used
15	62-3010	Bracket - R.H.	1
16	3234-17	Screw - Cap Flange Hd.	4
17	62-3020	Bracket - L.H.	1
18	70-1890	Guard - Flywheel	1
19	3234-6	Screw - Cap Flange Hd.	2
20	67-8190	Bracket - Engine Support	2
21	3234-11	Screw - Cap Flange Hd.	6
22	3290-357	Nut - Lock, Flange	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



T-0413

## POWER TAKE OFF ASSEMBLY

Ref. No.	Part No.	Description	No. Used	Ref. No.	Part No.	Description	No. Used
1	21-1880	Grip Handle	1	27	3296-28	Nut - Lock	1
2	84-8500	Lever - P.T.O.	1	28	3272-11	Pin - Cotter	1
3	72-4320	Switch - Ball	1	29	3246-3	Screw - Set	4
4	237-30	Seal - O-Ring	1	30	43-5590	Arm - P.T.O.	1
5	43-8610	Guide - Spring & Ball Seat	1	31	43-5500	Pivot P.T.O.	1
6	84-8520	Bracket - P.T.O. Switch	1	32	43-5550	Shaft - P.T.O. Actuator	1
7	283-42	Clevis Pin	1	33	3219-3	Nut	1
8	3272-10	Cotter Pin	1	34	3296-6	Nut - Lock	1
9	43-3860	Shaft - Pivot P.T.O.	1	35	27-7900	Screw - Adjusting	1
10	302-10	Fitting - Grease	1	36	3256-41	Washer - Flat	3
11	3257-5	Key - Woodruff	3	37	5-0652	Spacer	1
12	53-9660	V-Belt Torque Team	1	38	43-5570	Arm - P.T.O. Actuator	1
13	21-0230	Pulley - P.T.O.	1	39	302-2	Grease Fitting	1
14	3256-28	Washer - Flat	4	40	251-252	Ball Bearing (Incl. Ref. #41)	2
15	3254-7	Washer - Lock	1	41	251-234	Lock Collar (Incl. Ref. #46)	2
16	3219-7	Nut - Hex.	1	42	32120-22	Ring - Retaining	2
17	3272-22	Pin - Cotter	2	43	43-5540	Shaft P.T.O.	1
18	3-6498	Washer	A/R	44	62-4260	Drive Shaft Assembly	1
19	3-8812	Spacer	1	45	32121-34	Pin - Roll	2
20	3256-6	Washer - Flat	1	46	3245-1	Screw - Set	2
21	5-1747	Spring	1	48	21-0400	Spring - Compression	1
22	30-2120	Screw - Cap, Hex. Hd.	2	49	32121-9	Pin - Roll	1
23	43-3800	Bushing - P.T.O. Fork	2	50	21-1830	Spring - Tension	1
24	43-5610	Fork P.T.O.	1	51	43-5630	Yoke - P.T.O.	1
25	27-7370	Brake Assembly P.T.O.	1				
26	283-8	Clevis Pin	1				



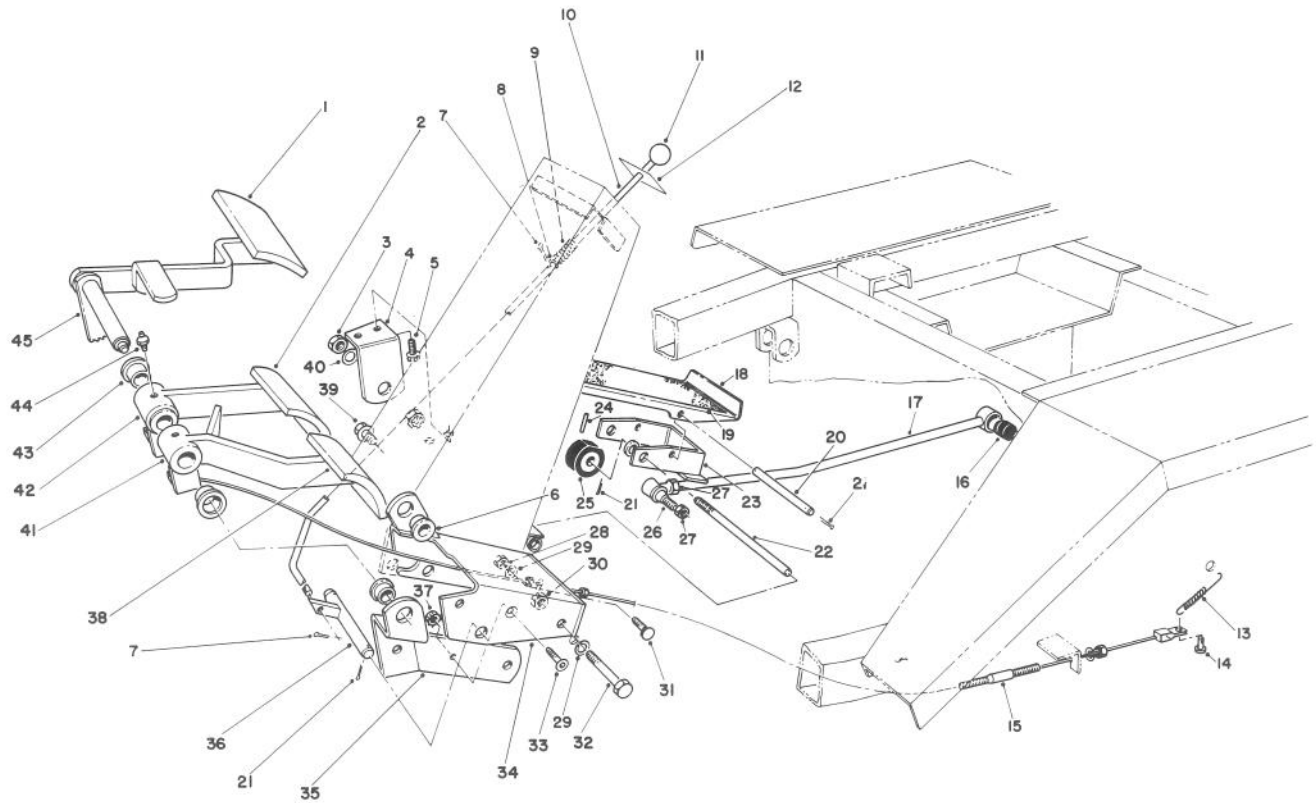
T-0413

## 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

Ref. No.	Part No.	Description	No. Used
65	322-9	Screw - Cap Hex. Hd.	2
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
*	84-4890	Assembly - Drive Shaft (Incl. Ref. #57-63)	1

\*Not Illustrated

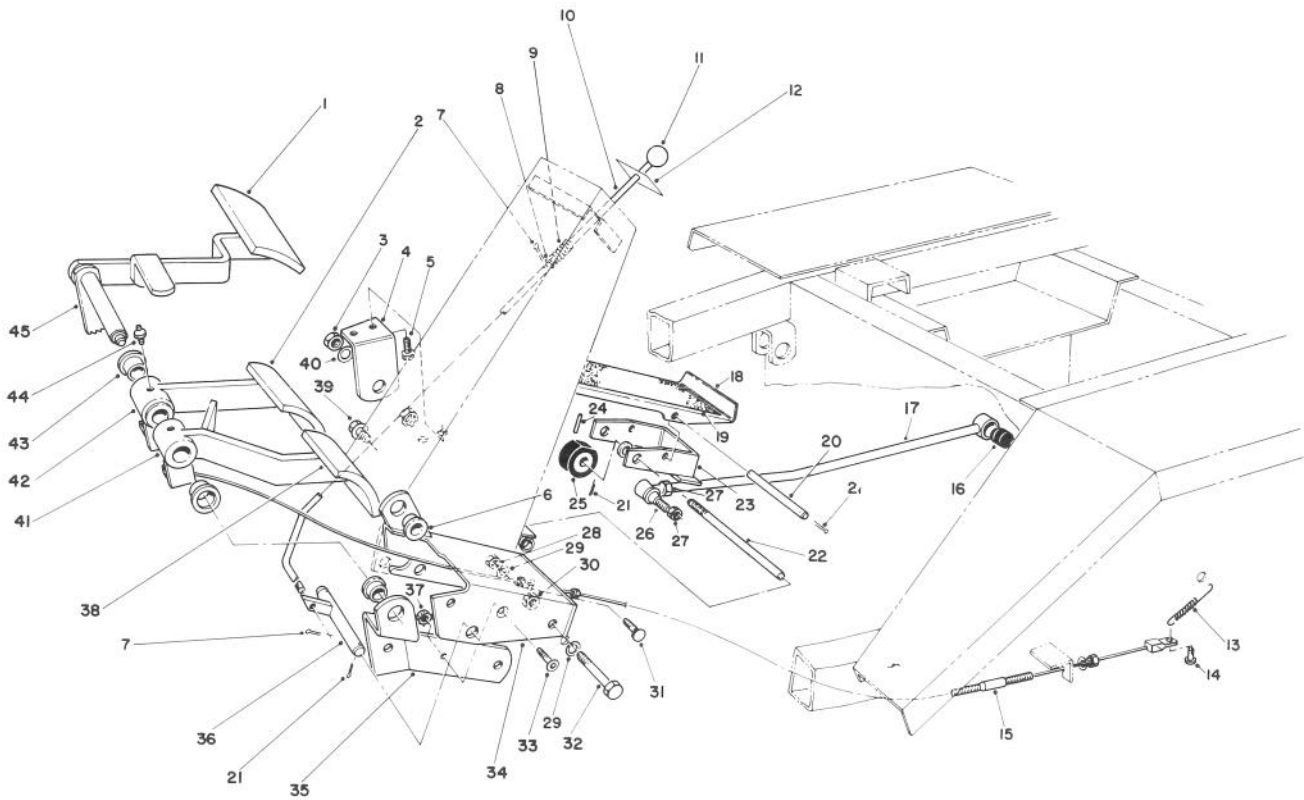


T-0415

## 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 (Inc. Ref. #6)	1	48	88-1680	Bracket - Footrest	1
24	32121-16	Pin - Roll	1				

\*Not Illustrated



T-0415

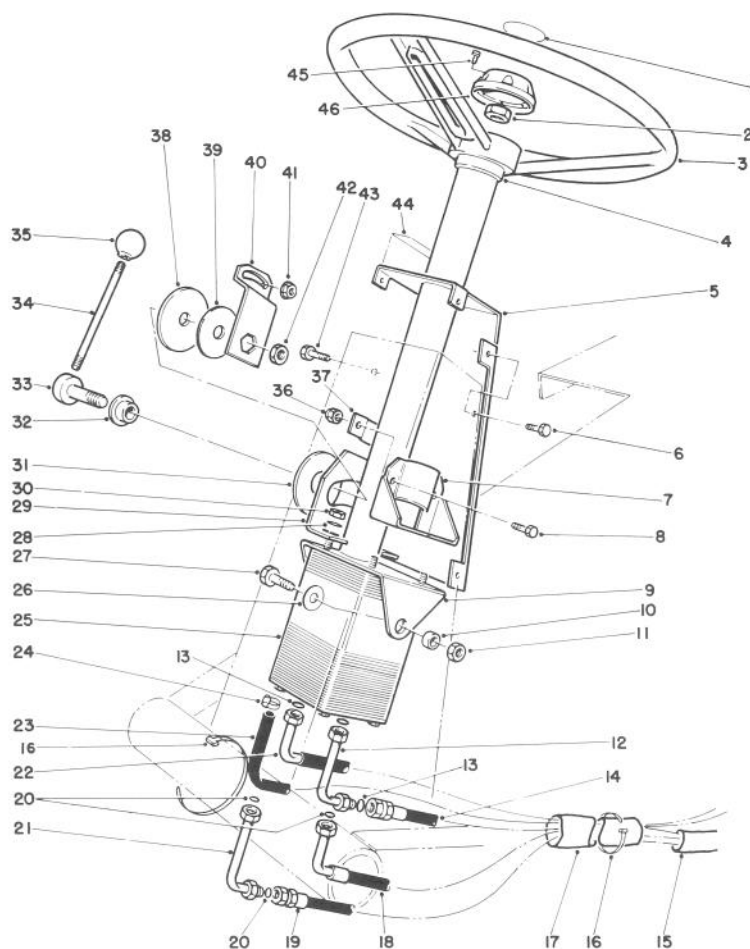
### BRAKE PEDAL ASSEMBLY (Continued)

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



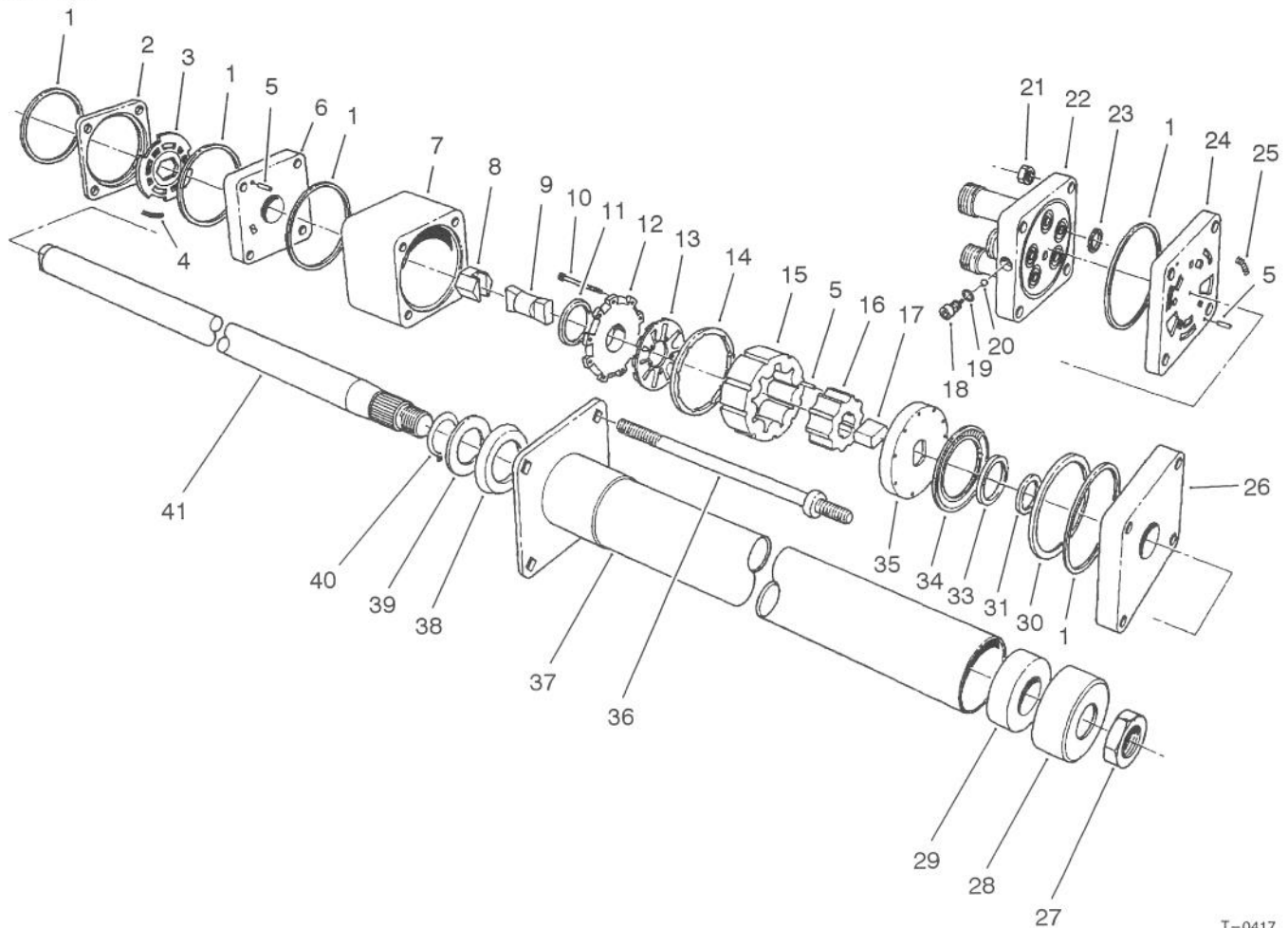


T-1187

## 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	63-9250	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	3296-4	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





T-0417

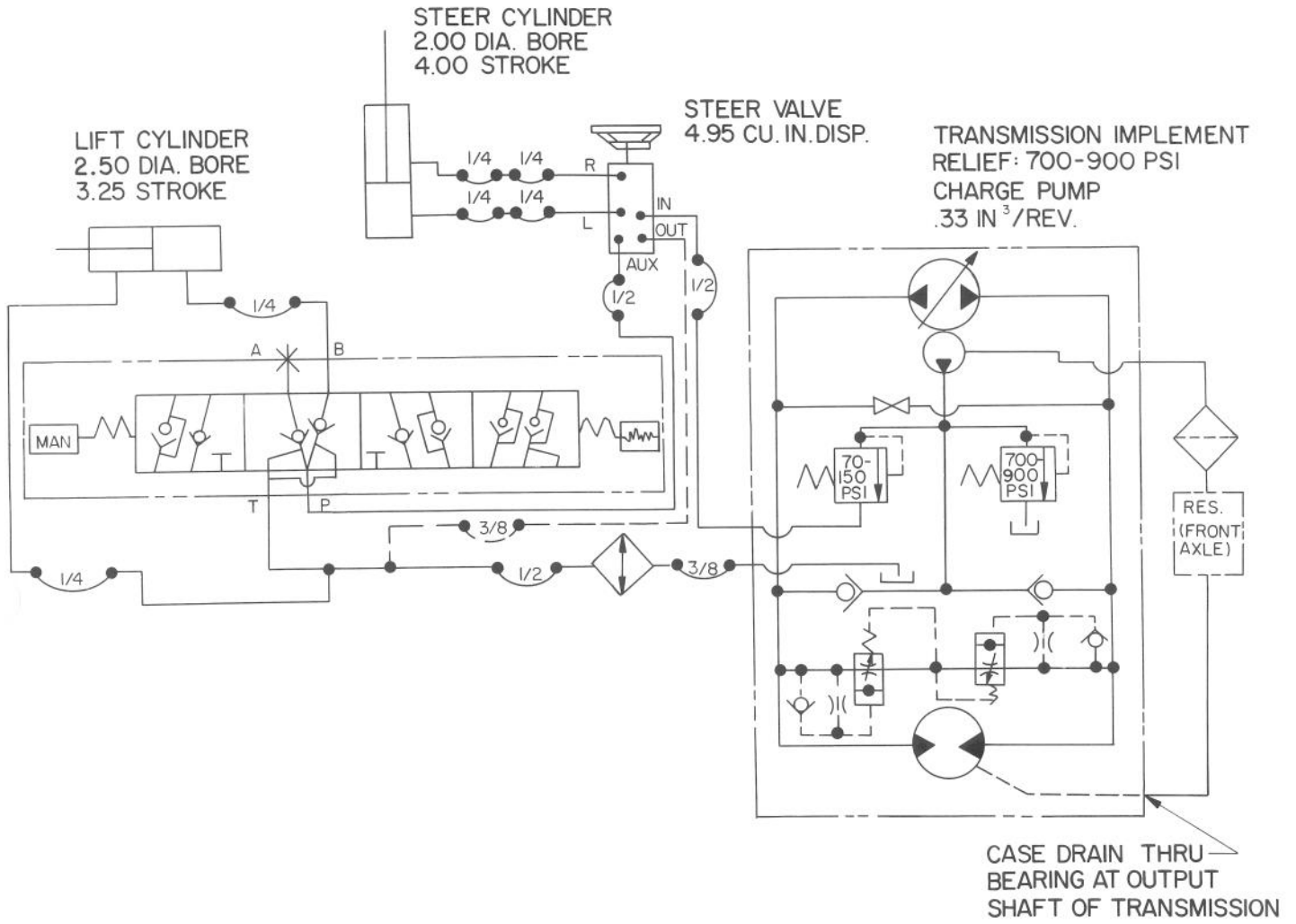
## POWER STEERING VALVE ASSEMBLY NO. 63-9250

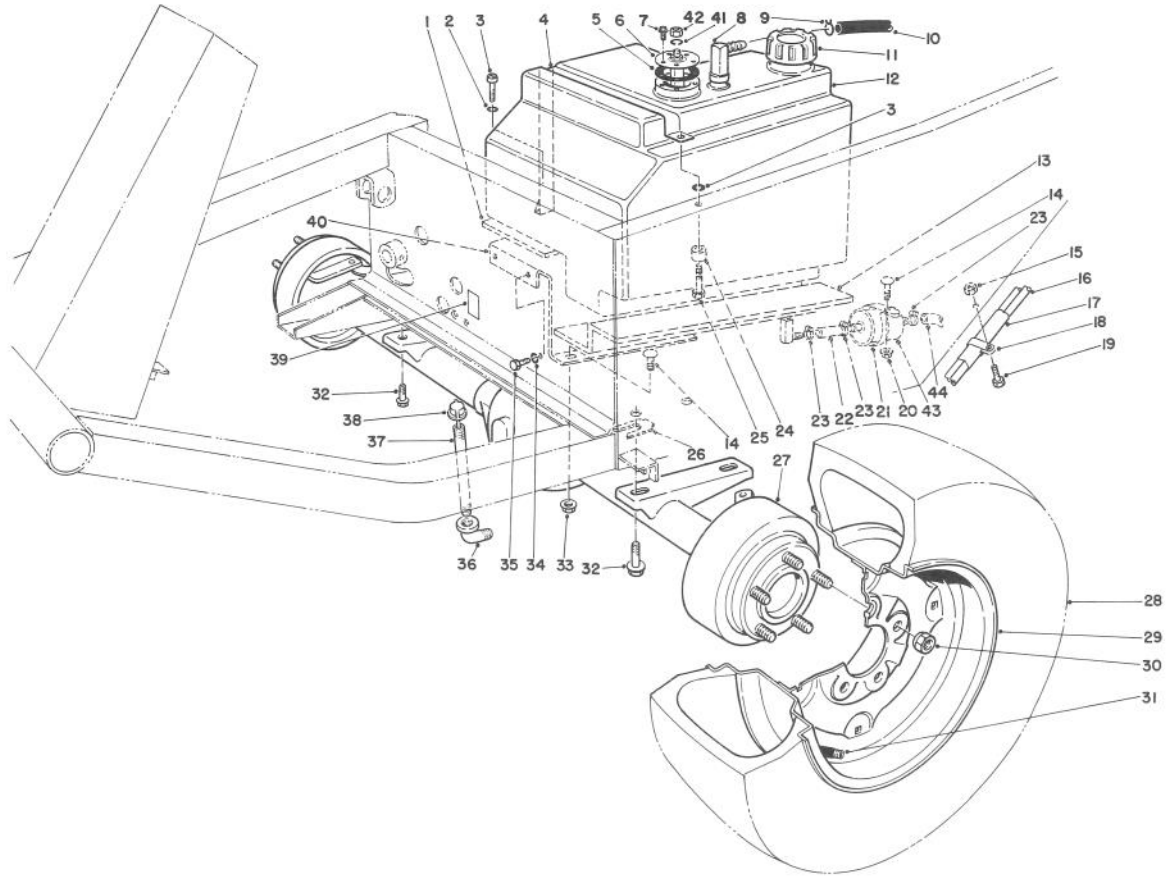
Ref. No.	Part No.	Description	No. Used
1		Ring - Seal	5
2		Ring - Valve	1
3		Plate - Valve	1
4		Spring	3
5		Pin - Alignment	9
6		Manifold - Isolation	1
7		Ring - Metering	1
8		Hex Drive Assy.	1
9		Link - Drive	1
10		Screw - Hex. Hd. Socket	11
11		Seal - Commutator	1
12		Cover - Commutator	1
13		Commutator	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

Ref. No.	Part No.	Description	No. Used
25		Spring	3
26		Plate - Upper Cover	1
27	3220-6	Nut	1
28	66-9770	Seal	1
29	66-9780	Bushing	1
30		Spacer - Thrust Bearing	1
31		Spacer - Seal	1
33		Seal-Face	1
34		Bearing - Thrust	1
35		Plate - Drive	1
36	66-9850	Bolt - Special	4
37	66-9860	Upper Cover & Jacket	1
38	66-9870	Plate - Retaining	1
39	66-9880	Washer - Retaining Plate	1
40	66-9890	Ring - Retaining	1
41	66-9900	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

\*Not Illustrated

# HYDRAULIC SCHEMATIC





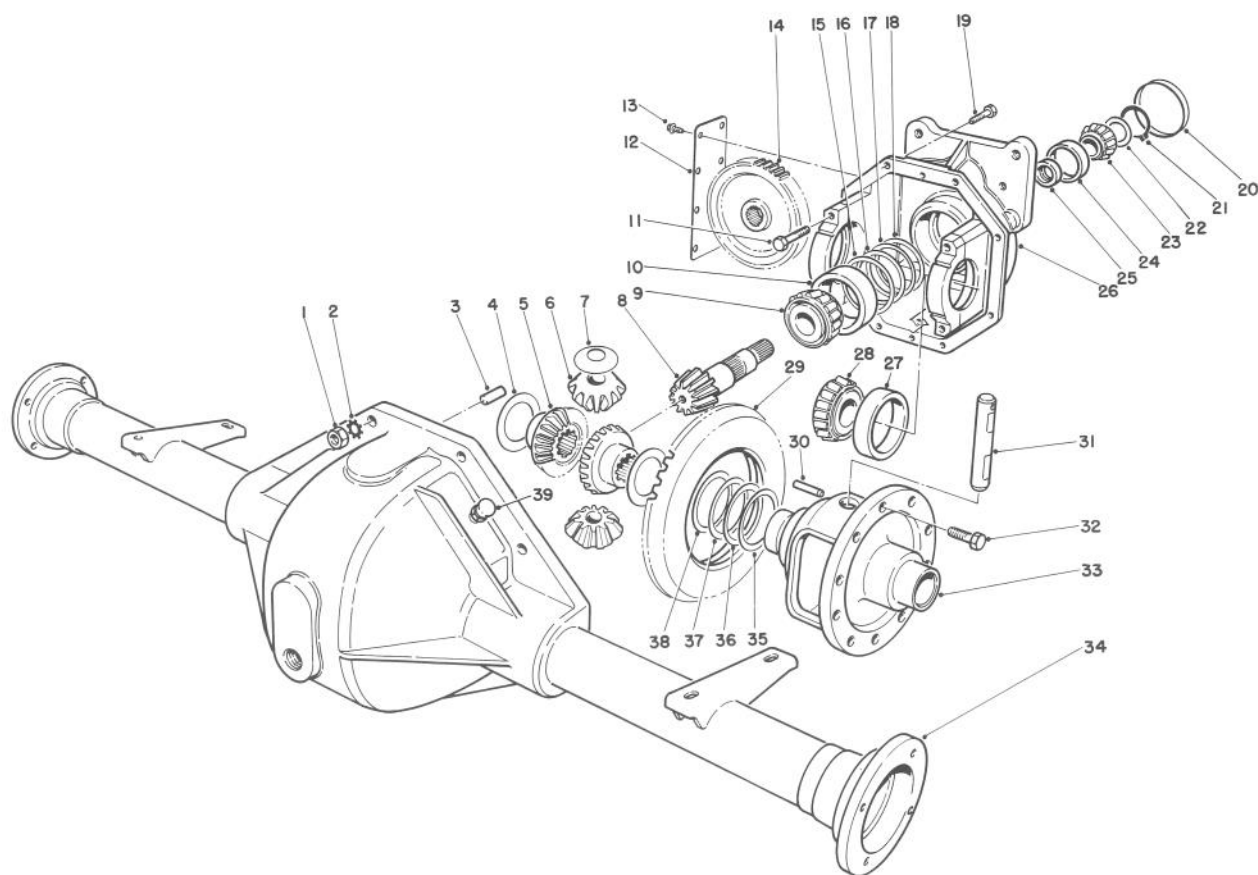
T-0918

## 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

\*Not Illustrated

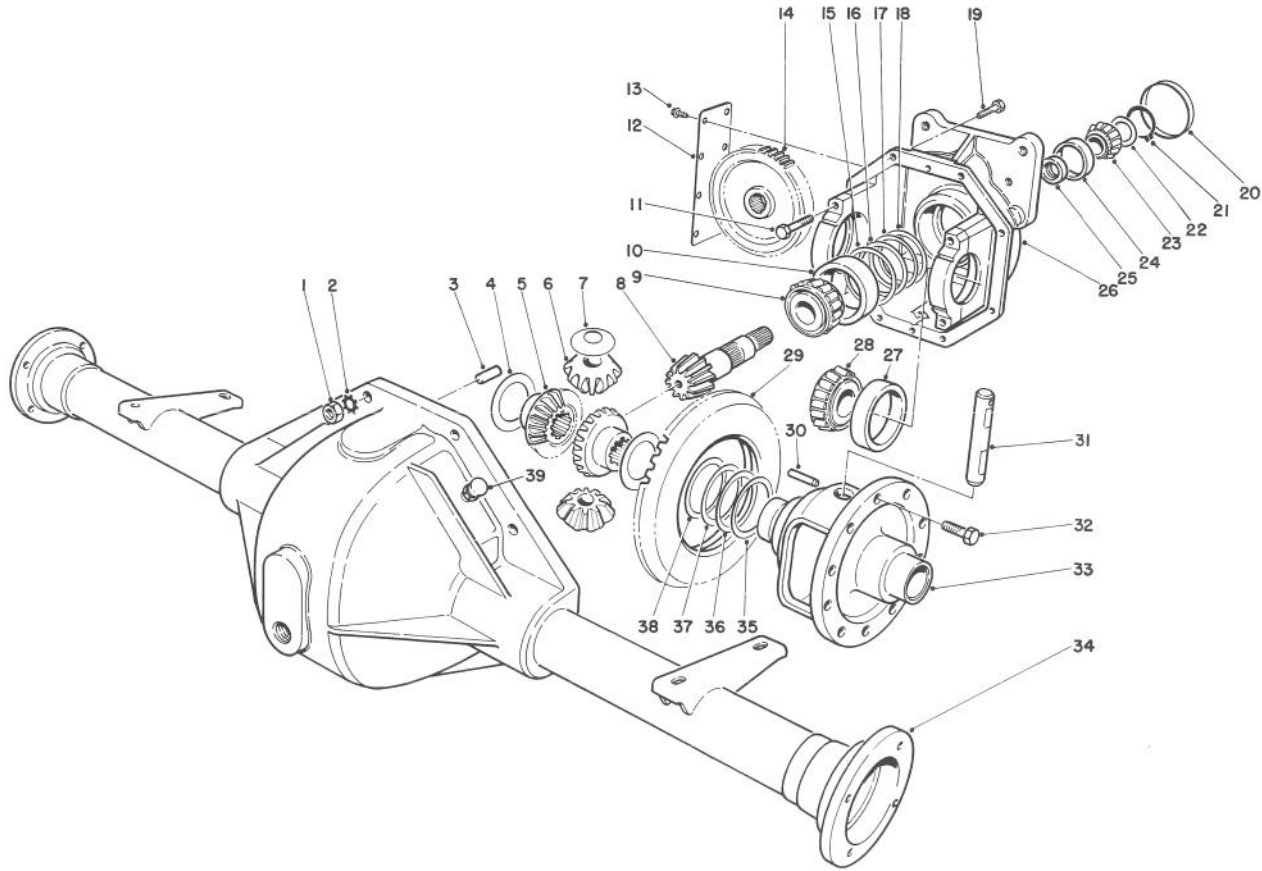


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## FRONT AXLE ASSEMBLY NO. 86-9600

Ref. No.	Part No.	Description	No. Used	Ref. No.	Part No.	Description	No. Used
1	3219-2	Nut	8	*22	46-2212	Shim - Front Pinion Bearing (.035)	A/R
2	3255-8	Washer - Lock	8	*	46-2213	Shim - Front Pinion Bearing (.037)	A/R
3	21-8270	Dowel Pin	2	*	46-2214	Shim - Front Pinion Bearing (.039)	A/R
4	21-7720	Thrust Washer	2	*	46-2215	Shim - Front Pinion Bearing (.041)	A/R/
5	24-8790	Differential Bevel Gear Side	2	*	46-2216	Shim - Front Pinion Bearing (.043)	A/R
6	21-7690	Pinion Gear	2	*	46-2220	Shim - Front Pinion Bearing (.045)	A/R
7	21-7730	Thrust Washer	2	*	46-2221	Shim - Front Pinion Bearing (.047)	A/R
8		Drive Pinion (Incl. Ref. #29)	1	*	46-2222	Shim - Front Pinion Bearing (.049)	A/R
9	43-6760	Roller Bearing Cone	1	*	46-2223	Shim - Front Pinion Bearing (.051)	A/R
10	43-6750	Roller Bearing Cup	1	*	46-2224	Shim - Front Pinion Bearing (.053)	A/R
11	92-1773	Screw - Cap, Hex. Hd.	4	*	46-2225	Shim - Front Pinion Bearing (.055)	A/R
12	21-7830	Gear Cover	1	*	46-2226	Shim - Front Pinion Bearing (.057)	A/R
13	12-5450	Thread Forming Screw	8	*	46-2410	Shim - Front Pinion Bearing (.062)	A/R
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				

\*Not Illustrated



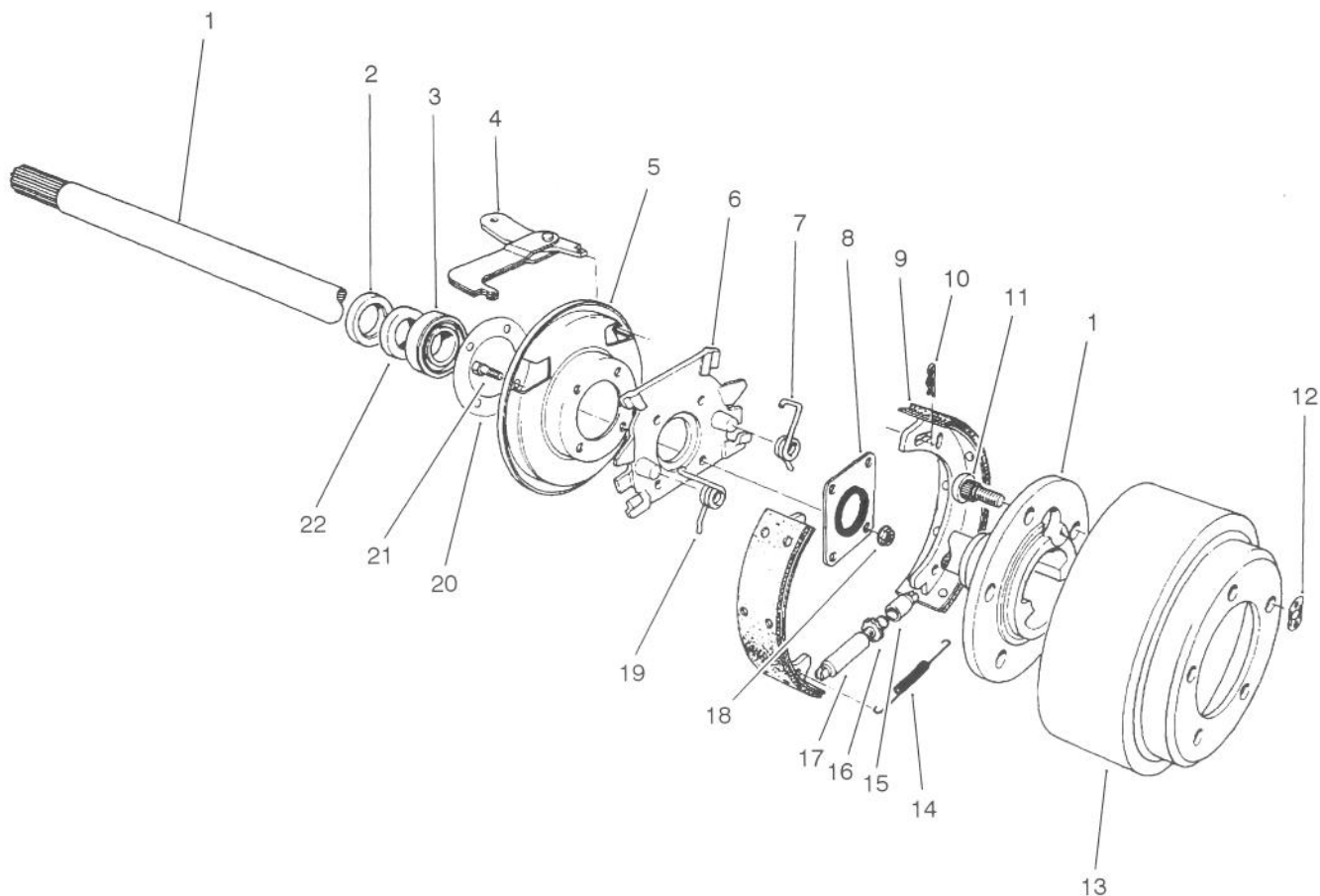
T-0919

## 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

Ref. No.	Part No.	Description	No. Used
*22	46-2425	Shim - Front Pinion Bearing (.086)	A/R
*	46-2426	Shim - Front Pinion Bearing (.088)	A/R
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
*	43-6510	Gear & Pinion Assembly (Incl. Ref. #8 & 29)	1

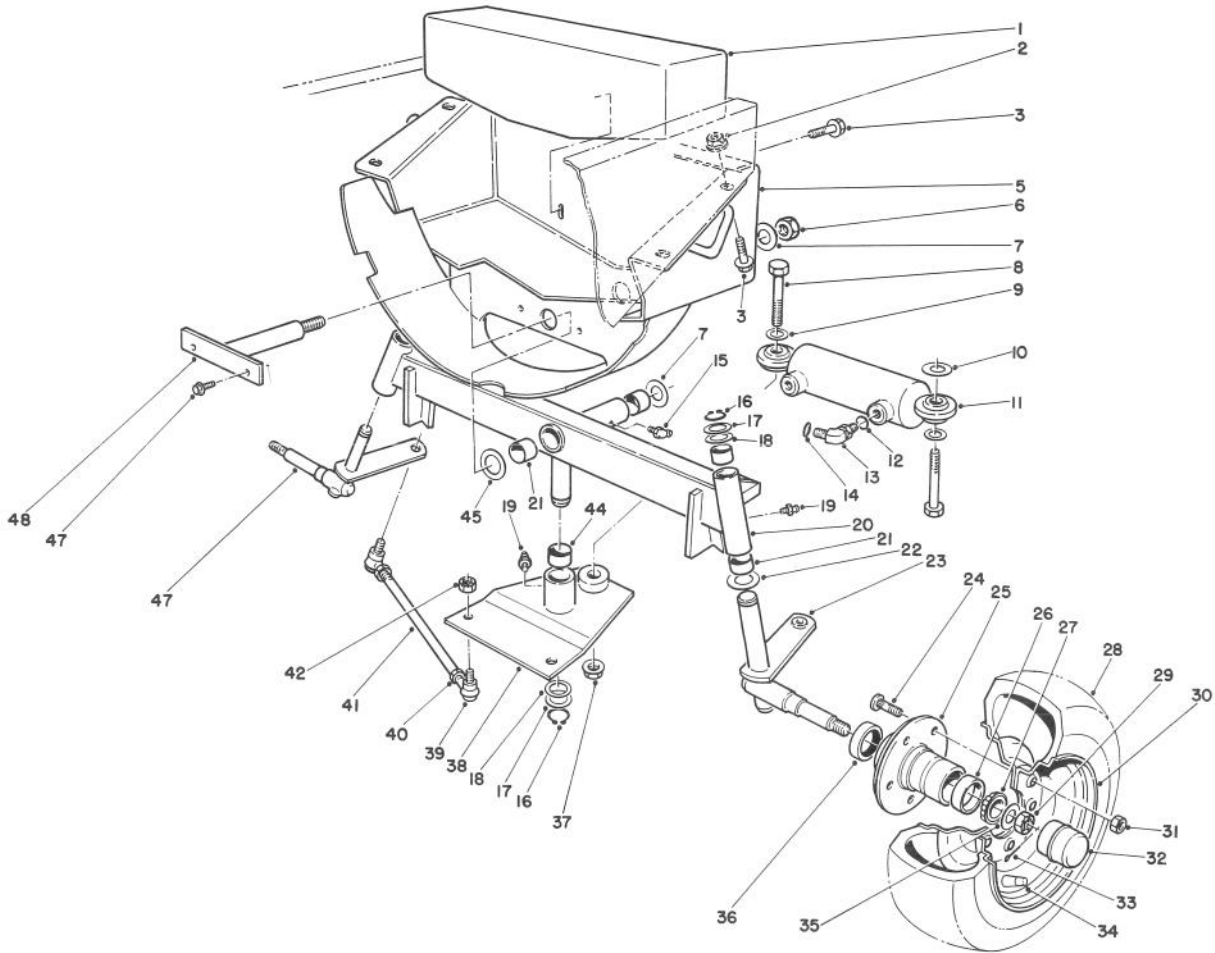
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T-0421

## BRAKE ASSEMBLY

Ref. No.	Part No.	Description	No. Used	Ref. No.	Part No.	Description	No. Used
1	28-0650	Flanged Axle Shaft	2	12	21-8360	Clip - Retaining	2
2	92-1774	Oil Seal	2	13	28-0680	Brake Drum	2
3	21-8180	Bearing	2	14	21-9440	Spring - Adjusting Screw	2
4	24-9180	Strut & Lever Parking Brake	2	15	21-9390	Socket - Adjusting Screw	2
5	21-9450	Dust Shield	2	16	21-9370	Screw - Adjusting	2
6	43-6810	Torque - Spider	2	17	21-9380	Nut - Pivot	2
7	21-9430	Spring - Shoe Return R.H.	2	18	43-6800	Nut - Lock	8
8	28-0670	Oil Seal	2	19	21-9420	Spring - Shoe Return L.H.	2
9	84-8600	Shoe & Lining Assembly (Set of 4)	1	20	21-8320	Gasket - Wheel Bearing	2
10	21-9460	Retainer - Brake Lever	4	21	24-8840	Ring - Wheel Bearing	2
11	242-34	Axle Flange Stud	10	22	28-0660	Screw - Cap, Hex. Hd.	8



T-0920

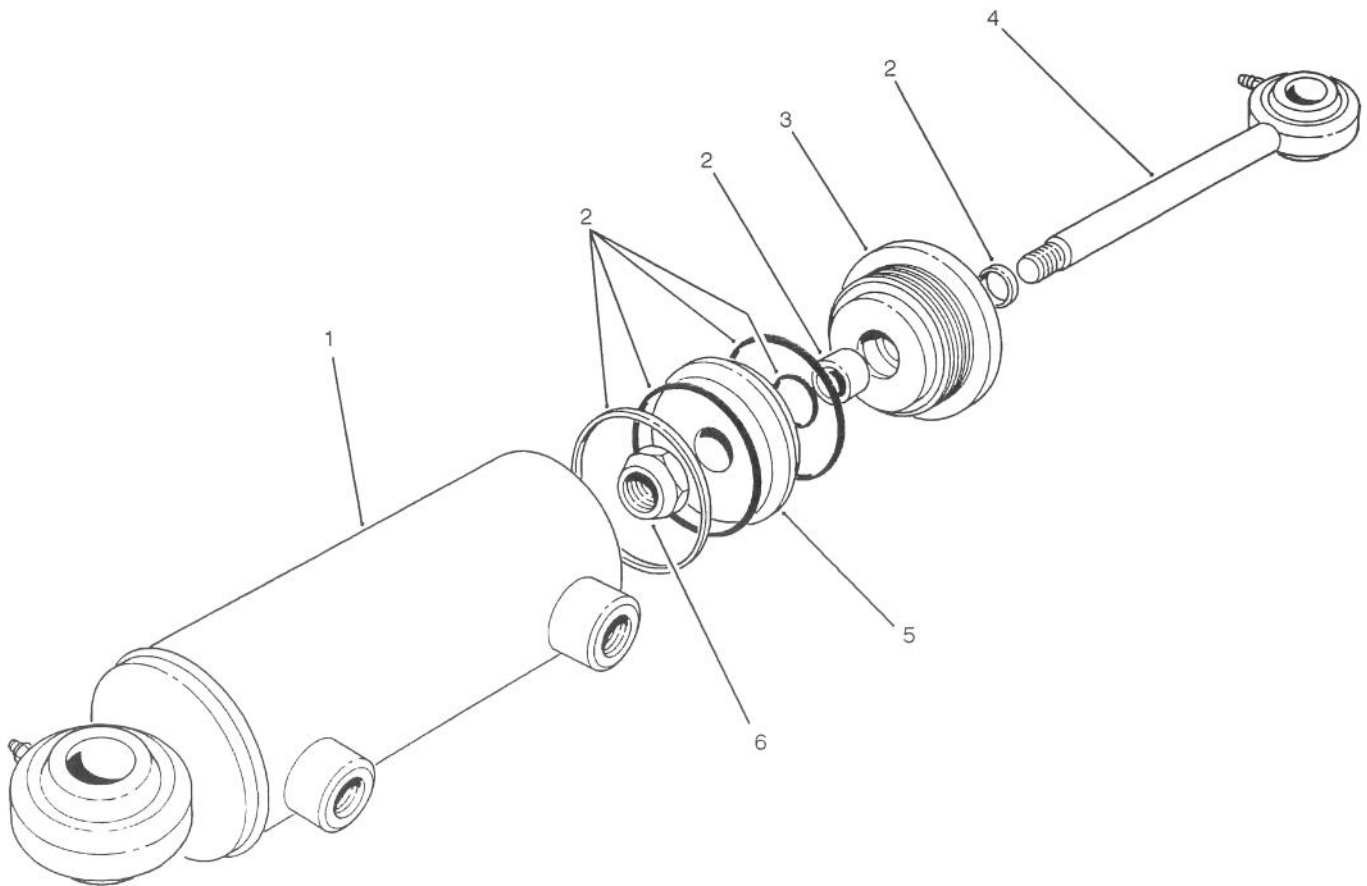
## REAR WHEEL & AXLE ASSEMBLY

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
5	67-8130	Support - Axle Rear	1
6	32146-20	Nut - Lock	1
7	71-4540	Washer - Thrust	2
8	328-25	Screw - Cap, Hex Hd.	2
9	67-9410	Washer	2
10	67-7250	Spacer - Ring	1
11	63-9240	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	67-9160	Axle - Rear (Incl. Ref. #21)	1
21	67-1750	Bushing - Axle	6
22	256-121	Bushing - Thrust	2
23	63-9170	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

Ref. No.	Part No.	Description	No. Used
27	254-94	Cone - Bearing	4
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	32128-45	Nut - Lock	2
38	63-9220	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	63-9180	Spindle Assembly R.H.	1
47	3234-14	Screw - Self Tapping	2
48	67-8170	Pin - Axle Rear	1

\*Not Illustrated



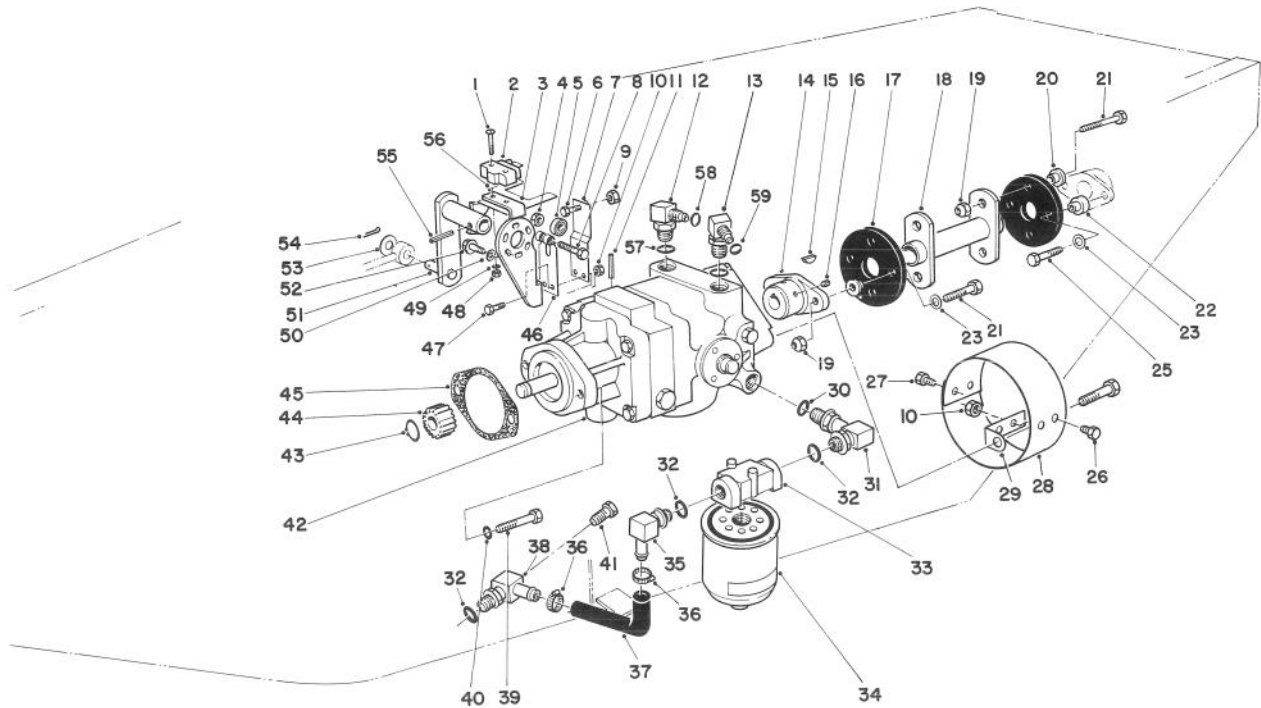


T-0423

## HYDRAULIC STEERING CYLINDER NO. 63-9240

Ref. No.	Part No.	Description	No. Used
1		Tube Assembly	1
2	66-1960	Seal Kit	1
3	66-1950	Gland	1

Ref. No.	Part No.	Description	No. Used
4	66-1910	Piston Rod Assembly	1
5	66-1940	Piston	1
6	66-1930	Nut - Lock	1

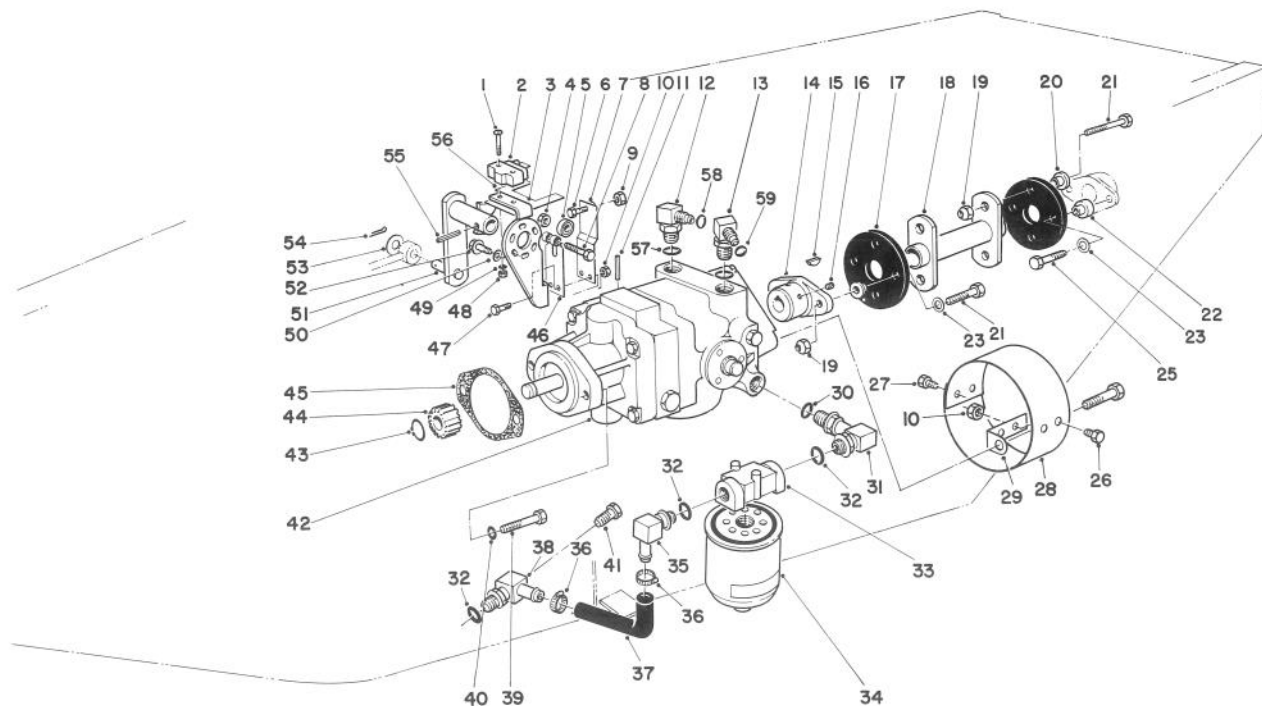


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## HYDROSTATIC TRANSMISSION ASSEMBLY

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	67-8110	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	71-4370	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

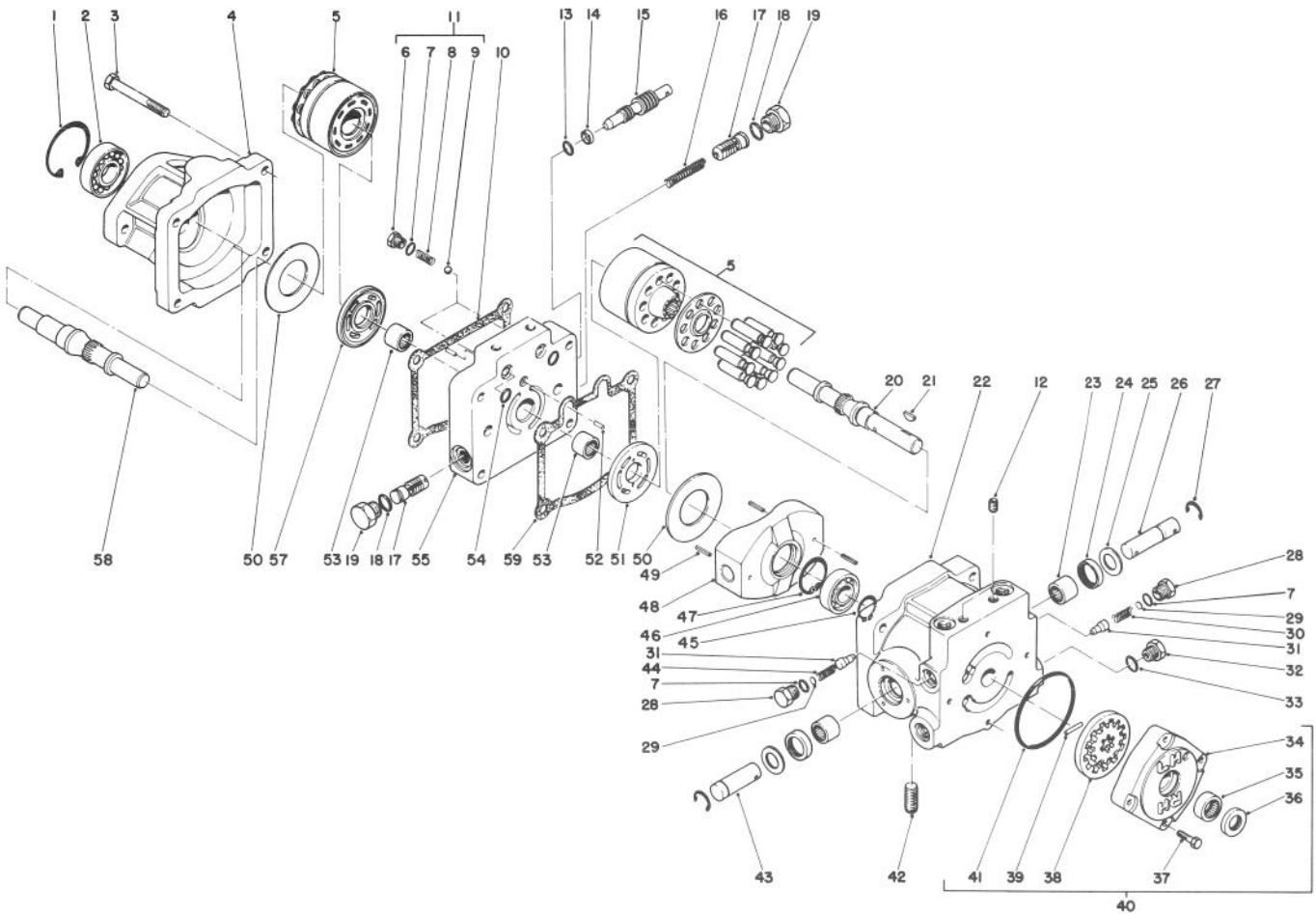


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## HYDROSTATIC TRANSMISSION ASSEMBLY (Continued)

Ref. No.	Part No.	Description	No. Used
54	3272-10	Cotter Pin	1
55	32121-24	Roll Pin	1
56	46-8810	Stop - Leaf Spring	1

Ref. No.	Part No.	Description	No. Used
57	237-42	O-Ring	2
58	237-22	O-Ring	1
59	237-30	O-Ring	1

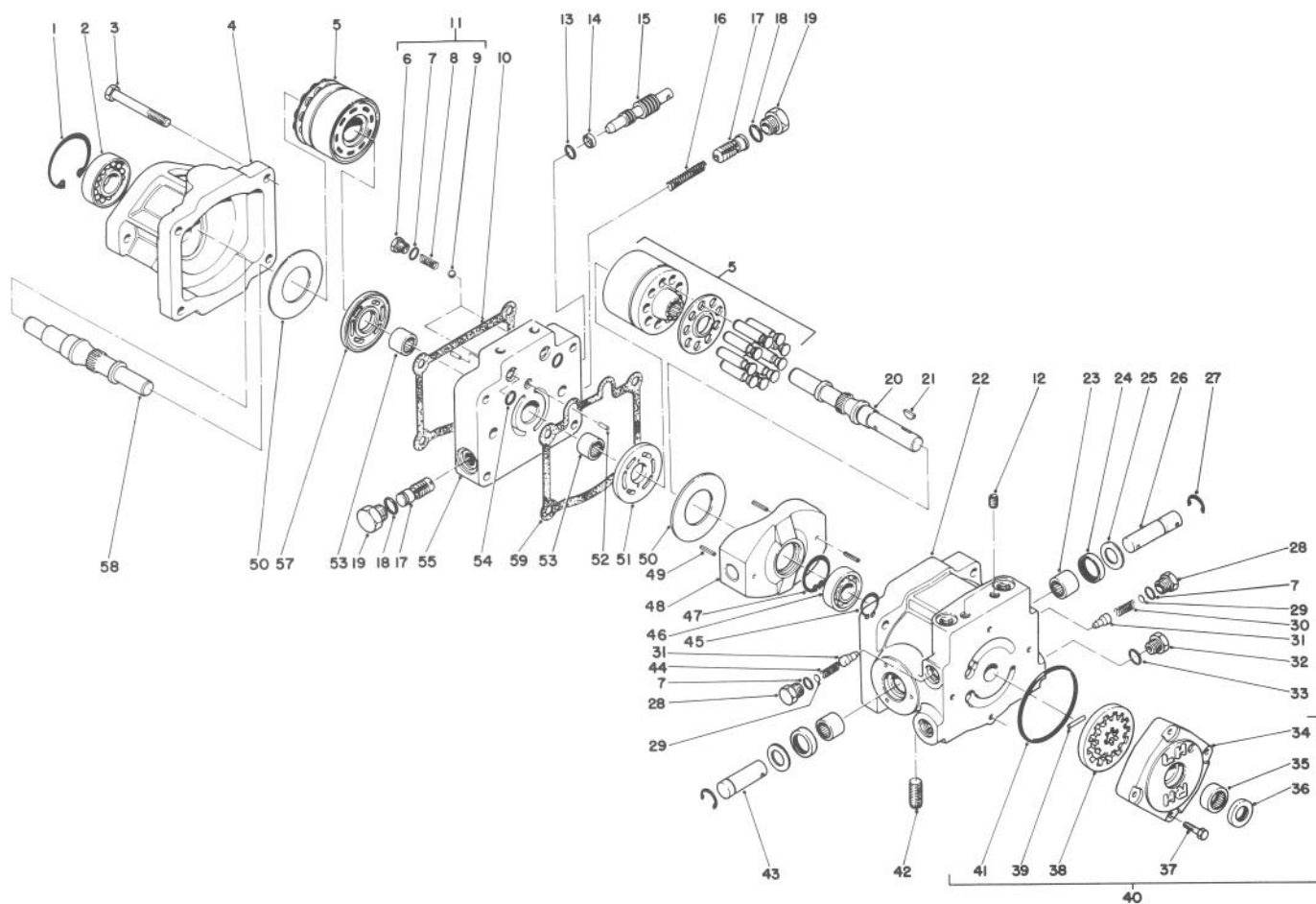


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## TRANSMISSION ASSEMBLY NO. 71-4370

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	6
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

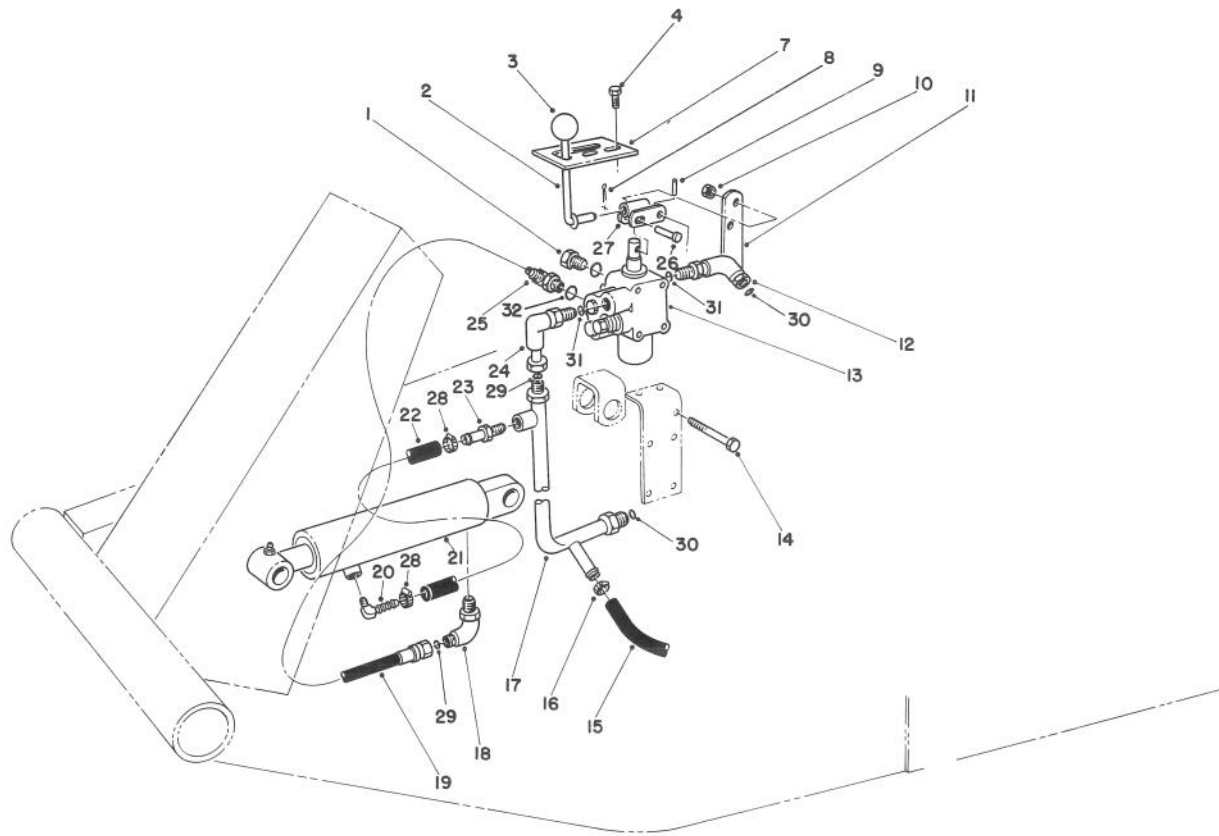
Ref. No.	Part No.	Description	No. Used
26	25-2580	Trunion Shaft	1
27	32151-46	Retaining Ring	2
28	25-2460	Plug - Hex. Hd.	2
29	25-2470	Shim Pack	2
30	25-2570	Valve Spring	1
31	83-7260	Relief Valve Cone	2
32	353-551	Hex. Hd. Plug	1
33	237-80	O-Ring	1
34	25-2550	Charge Pump Housing	1
35	67-8050	Needle 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



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## TRANSMISSION ASSEMBLY NO. 71-4370 (Continued)

Ref. No.	Part No.	Description	No. Used	Ref. No.	Part No.	Description	No. Used
51	25-2440	Pump Valve Plate	1	57	25-2390	Motor Valve Plate	1
52	25-2430	Dowel Pin	2	58	46-8410	Motor Shaft	1
53	46-8400	Needle Bearing	2	59	25-2400	Gasket	1
54	62-4290	O-Ring	2	60	74-9510	Washer	4
55	25-2420	Center Section	1				

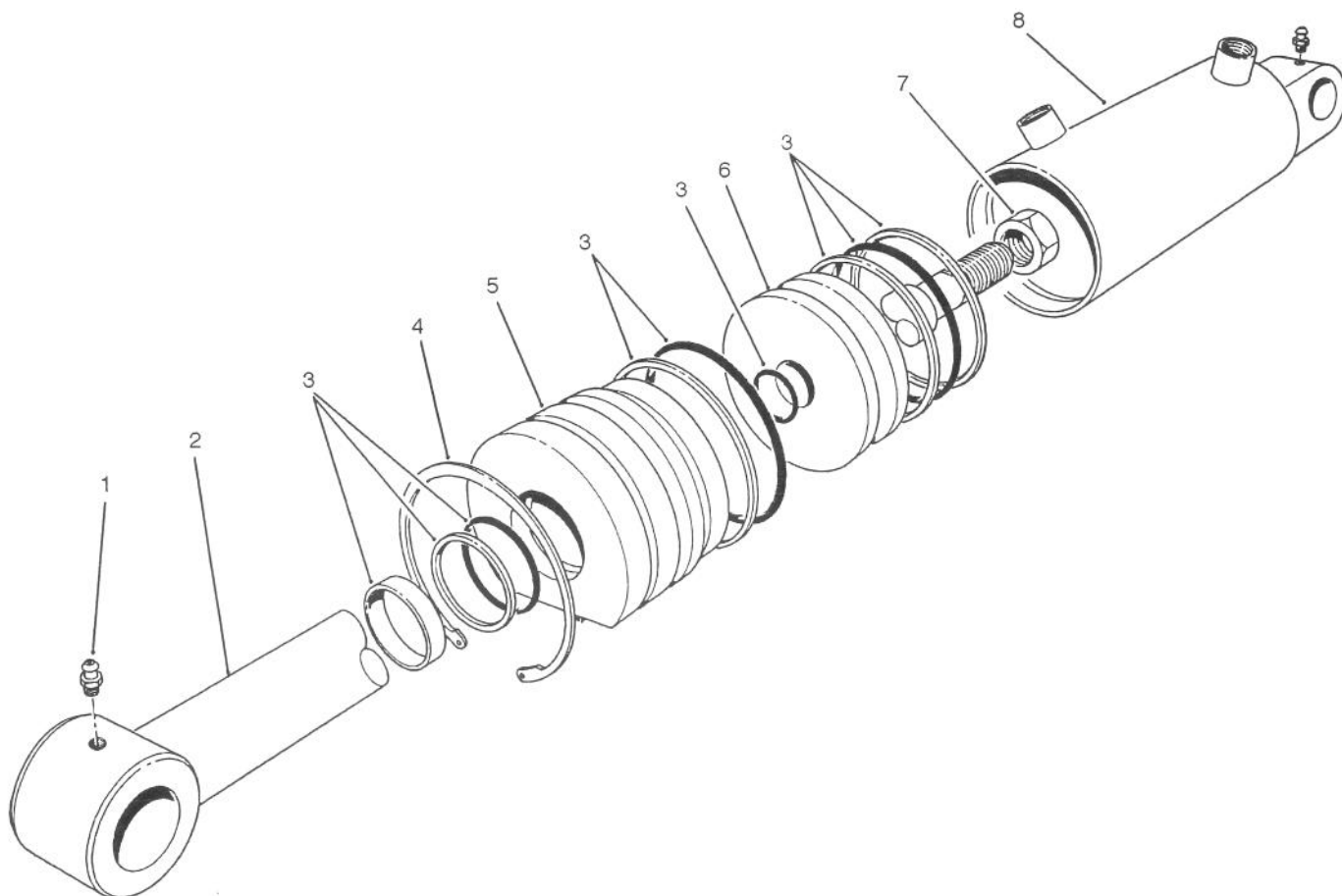


T-0426

## VALVE & CYLINDER ASSEMBLY

Ref. No.	Part No.	Description	No. Used	Ref. No.	Part No.	Description	No. Used
1	353-512	Plug	1	19	71-3580	Hose - Valve to Cylinder	1
2	21-8620	Lever Valve	1	20	304-75	Fitting - 90° Barb	1
3	233-21	Knob	1	21	62-4250	Cylinder - Hydraulic	1
4	32144-10	Screw - Self Tapping	2	*	66-1250	Cylinder - Hydraulic (Optional)	1
7	21-8640	Latch Valve Lever	1	22	65-2970	Line - Gas	1
8	3272-6	Cotter Pin	1	23	304-73	Fitting - Straight Barb	1
9	32121-73	Pin Slotted Spring	1	24	340-110	Elbow - 90°	1
10	3296-42	Nut - Lock	5	25	340-97	Fitting - 90°	1
11	21-9010	Pivot Mount - Valve Lever	1	26	283-17	Pin	1
12	340-99	Fitting - 90° Elbow	1	27	21-8590	Link - Valve Lever	1
13	43-1710	Valve Assembly	1	28	2412-108	Clamp Hose	2
14	321-23	Screw - Cap, Hex. Hd.	5	29	237-22	O-Ring	2
15	63-8990	Hose	1	30	237-30	O-Ring	2
16	2412-36	Clamp - Hose	1	31	237-42	O-Ring	2
17	63-9260	Manifold - Valve	1	32	237-78	O-Ring	2
18	340-112	Elbow 90°	1				

\*Not Illustrated



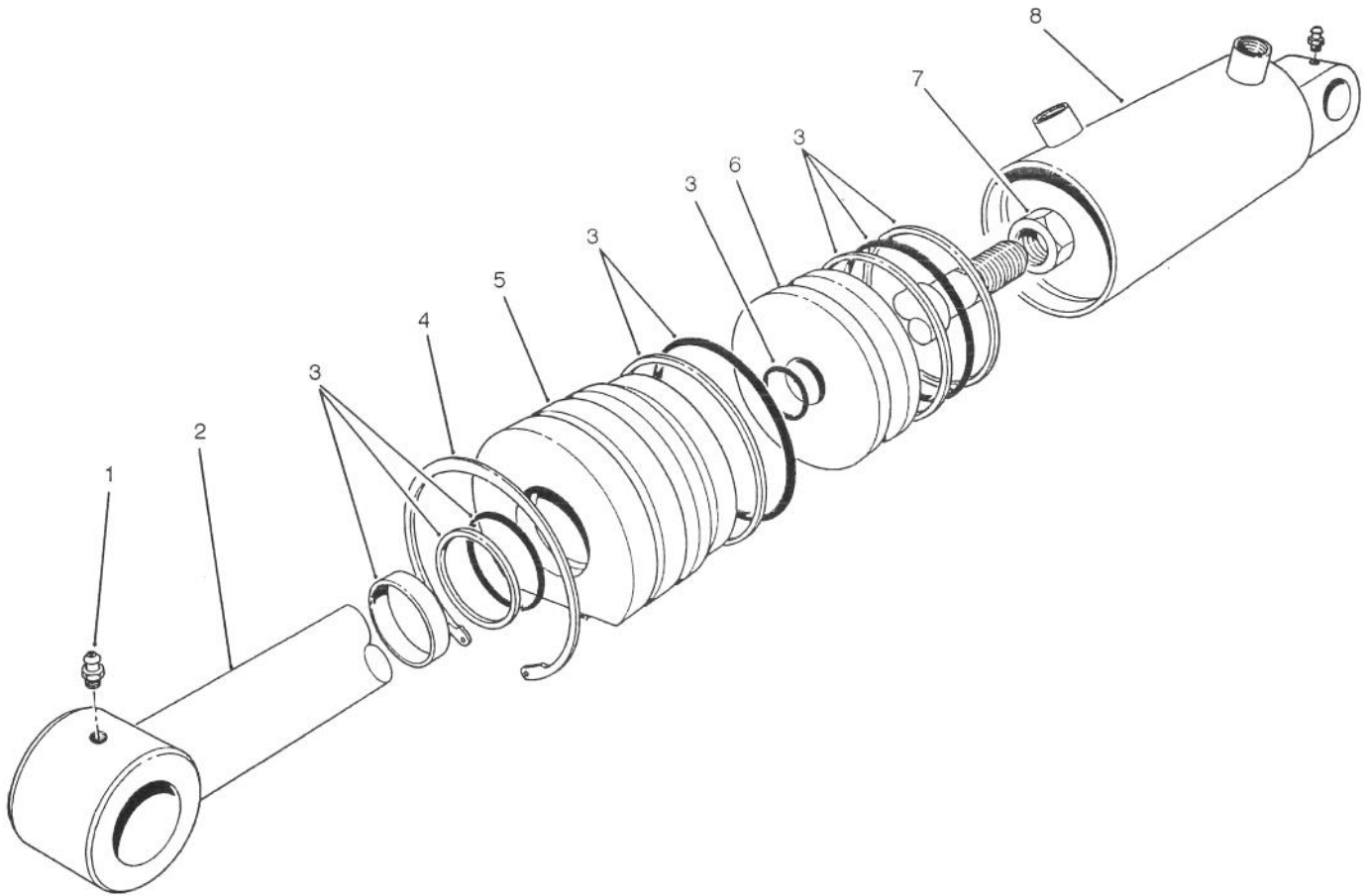
T-0527

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

Ref. No.	Part No.	Description	No. Used	Ref. No.	Part No.	Description	No. Used
1	302-55	Fitting - Grease	2	5	60-9780	Head	1
2	61-4980	Shaft - w/Clevis	1	6	60-9770	Piston	1
3	61-4960	Repair Kit	1	7	60-9760	Nut	1
4	61-4990	Ring - Retaining	1	*8		Barrel	1

\*Not available separately.





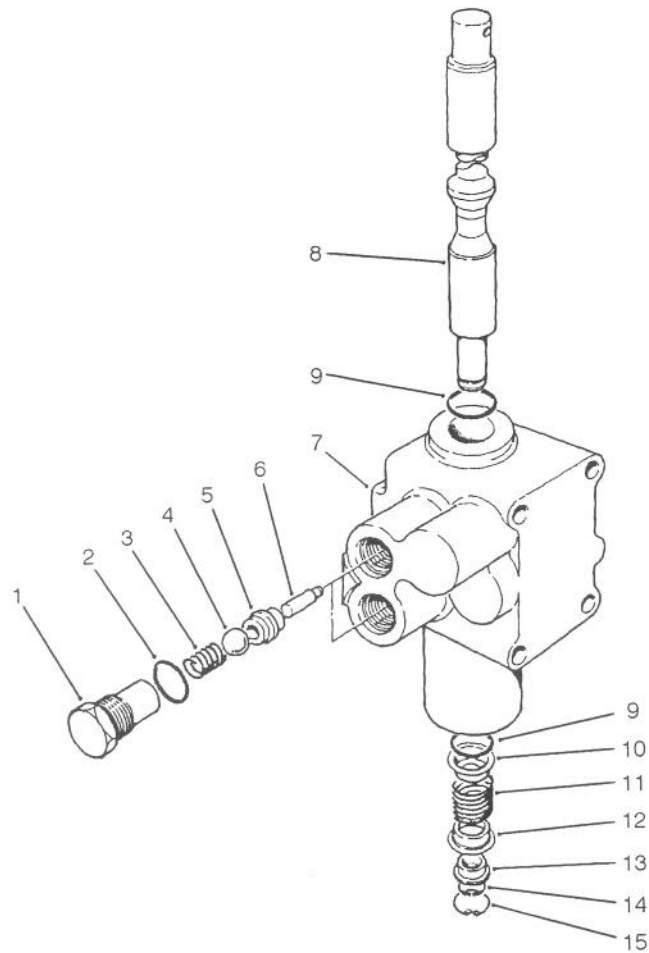
T-0527

## 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.

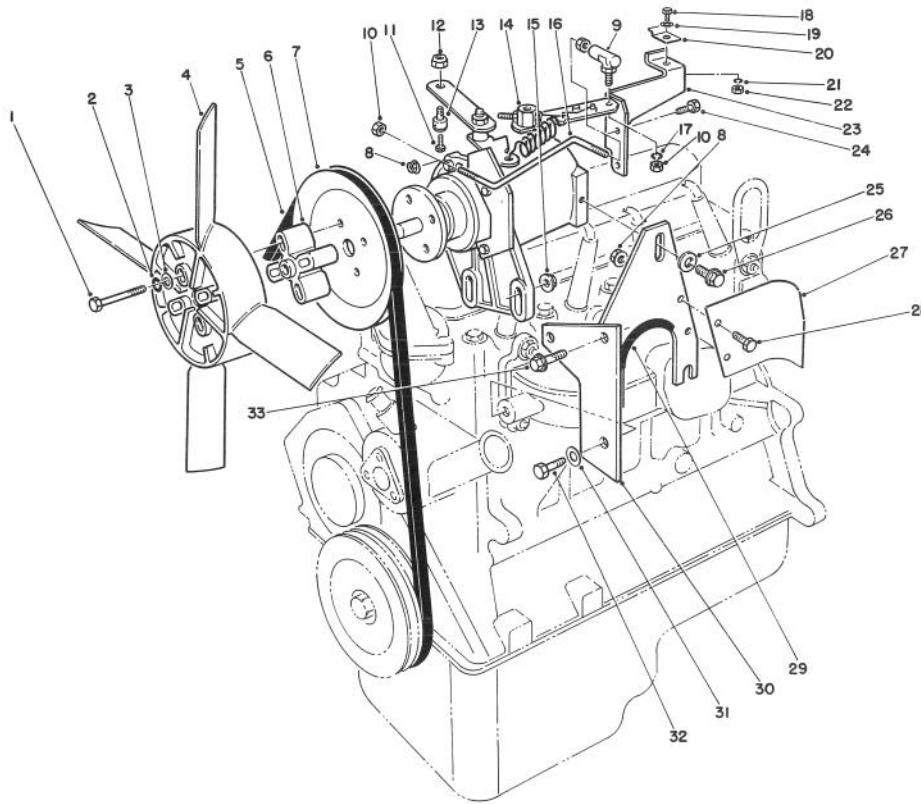


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### CONTROL VALVE ASSEMBLY NO. 43-1710

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



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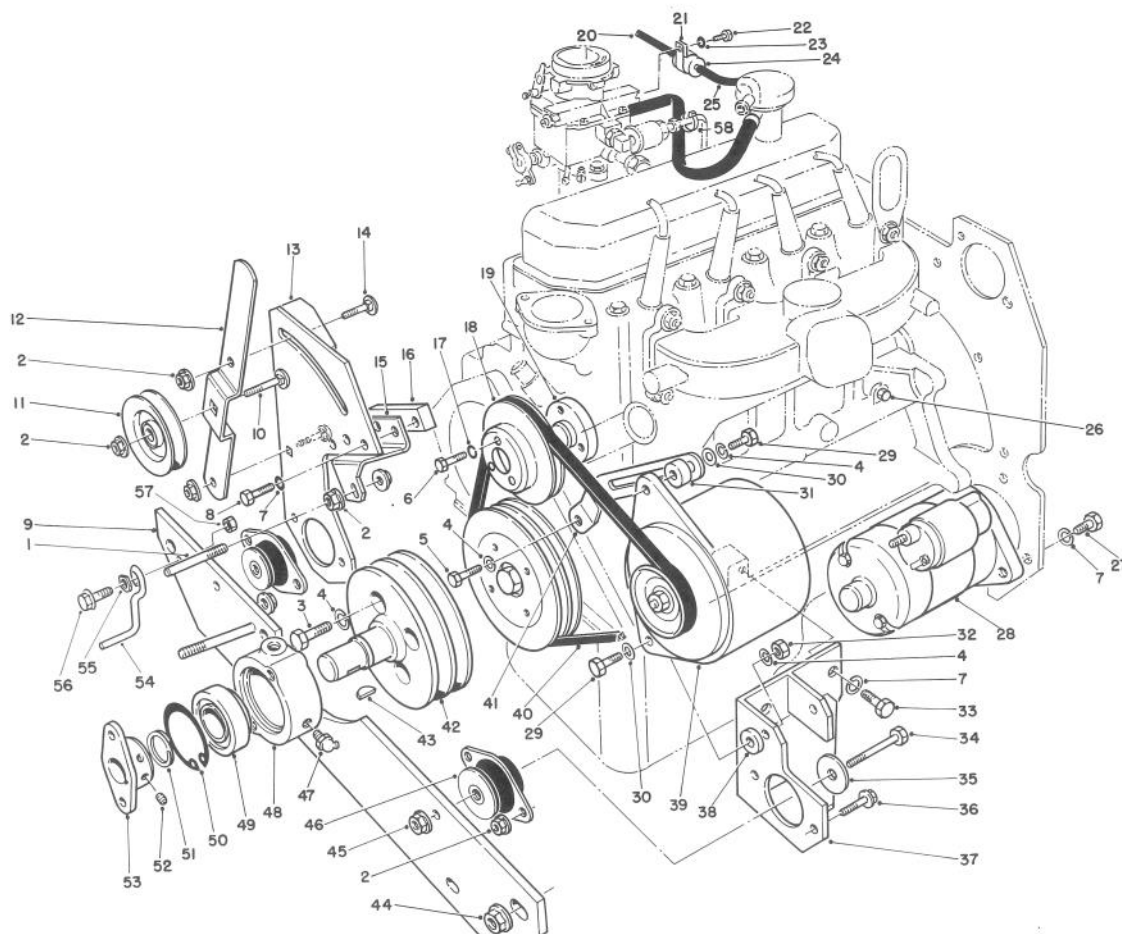
## ENGINE ASSEMBLY

Ref. No.	Part No.	Description	No. Used
1	322-12	Screw - Cap, Hex Hd.	4
2	3253-4	Washer - Lock	4
3	3256-2	Washer - Flat	4
†4	E7JL-8600-AA	Fan	1
5	67-8510	Belt - Fan	1
6	67-8390	Spacer - Fan	1
7	67-8380	Pulley - Fan	1
8	32128-33	Nut - Lock, Flange	4
9	21-5640	Joint - Ball	1
10	3219-14	Nut - Hex	3
11	25-8640	Screw - Machine	1
12	3296-20	Nut - Lock	1
13	43-3780	Swivel - Cable Throttle	1
14	67-8360	Governor	1
15	3290-357	Nut - Lock, Flange	2
16	67-8250	Rod - Throttle	1
17	3253-12	Washer - Lock	1

Ref. No.	Part No.	Description	No. Used
18	321-4	Screw - Cap, Hex Hd.	1
19	3256-22	Washer - Flat	1
20	2412-31	Clamp - Cable	1
21	3253-3	Washer - Lock	1
22	3217-5	Nut	1
23	67-8240	Bracket - Throttle	1
24	321-6	Screw - Cap, Hex Hd.	2
25	3256-56	Washer - Flat	1
26	3234-5	Screw - Lock, Flange Hd.	1
27	67-8920	Shield - Heat	1
28	321-39	Screw - Cap, Hex Hd.	2
29	70-2040	Guard - Trim	1
30	67-9150	Support - Governor	1
31	42-9780	Washer - Flat	1
32	48-7710	Screw - Cap, Hex Hd.	1
33	3234-11	Screw - Lock, Flange Hd.	2

\*Not Illustrated

28 †Obtain from your local Ford Power Products Dealer.

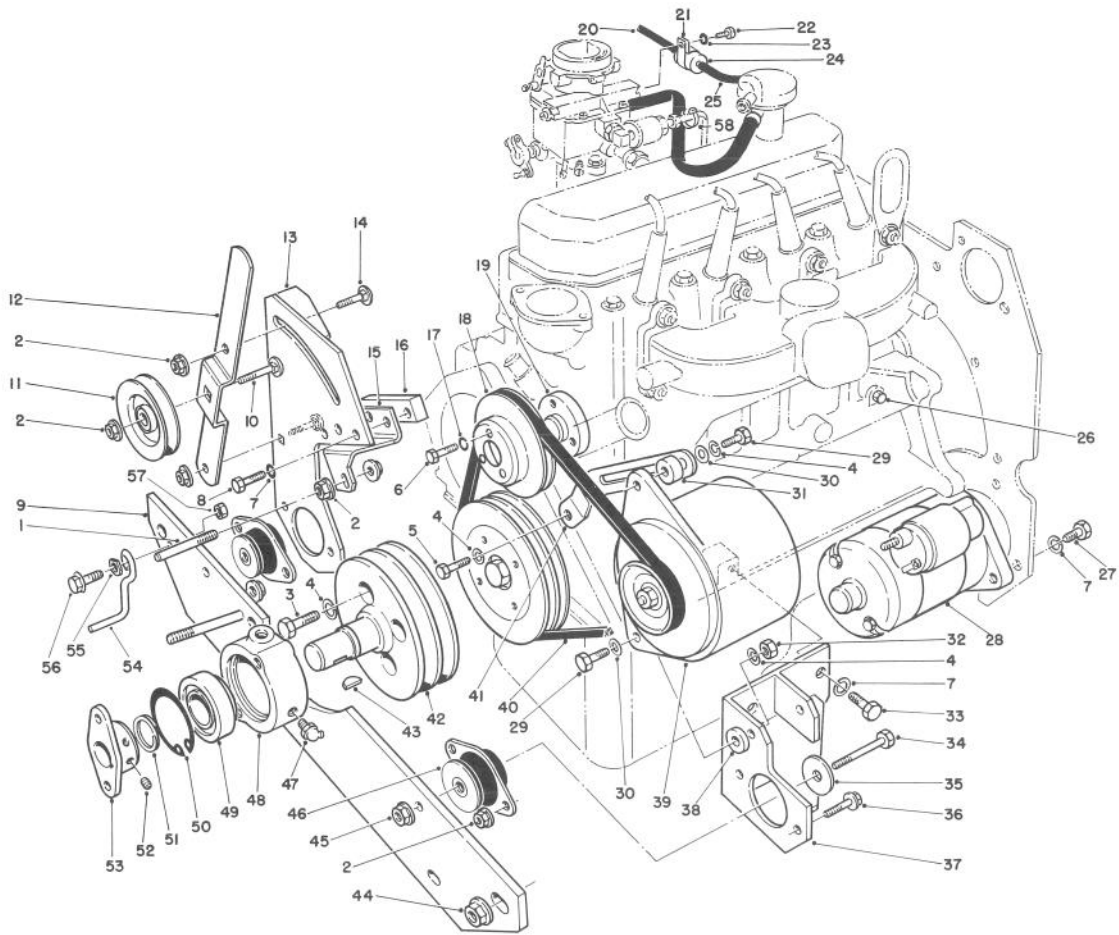


T-0922

## 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.

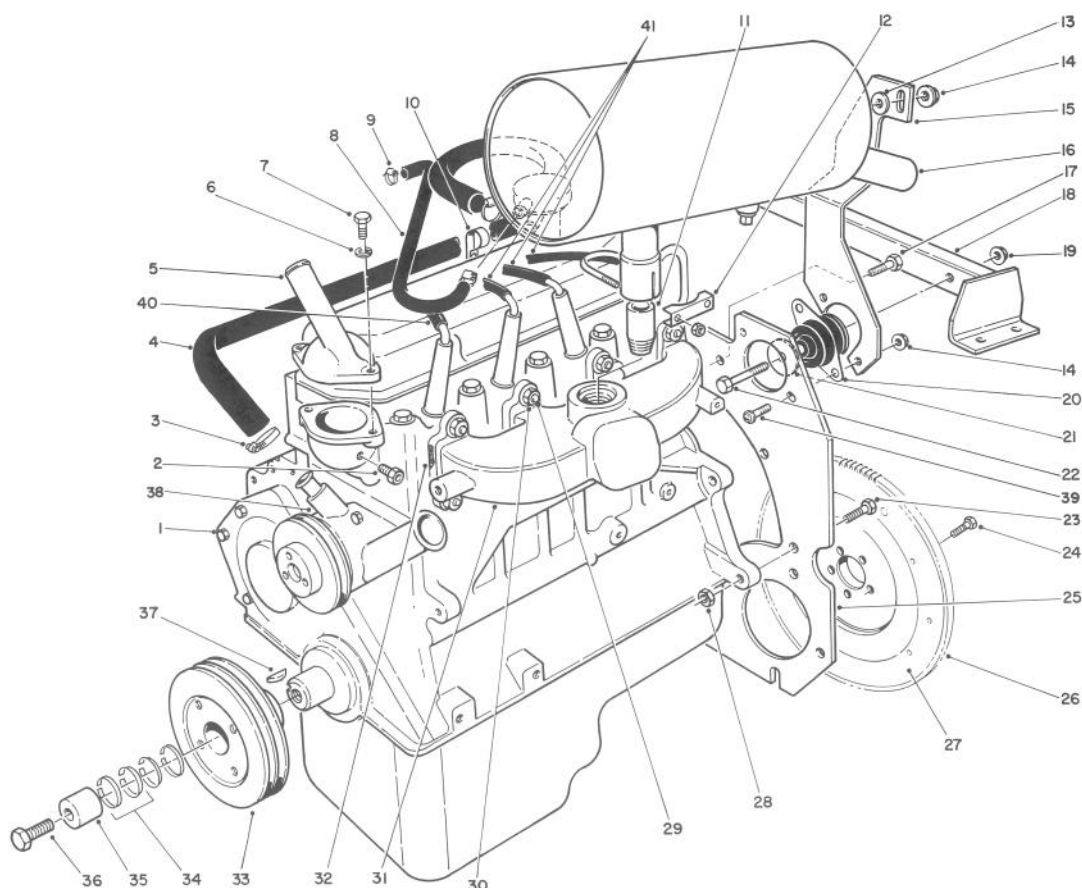


T-0922

## ENGINE ASSEMBLY

Ref. No.	Part No.	Description	No. Used
51	32120-69	Ring - Retaining Ext.	1
52	3245-1	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



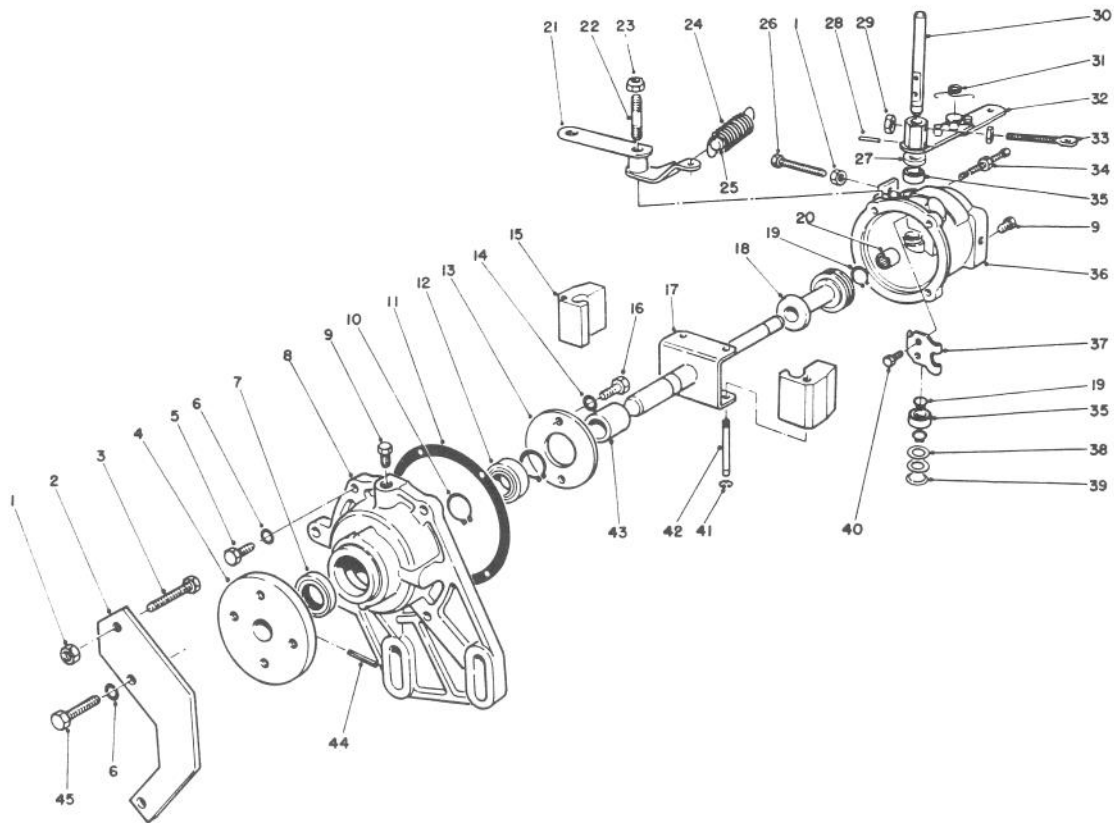
T-0923

## 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.



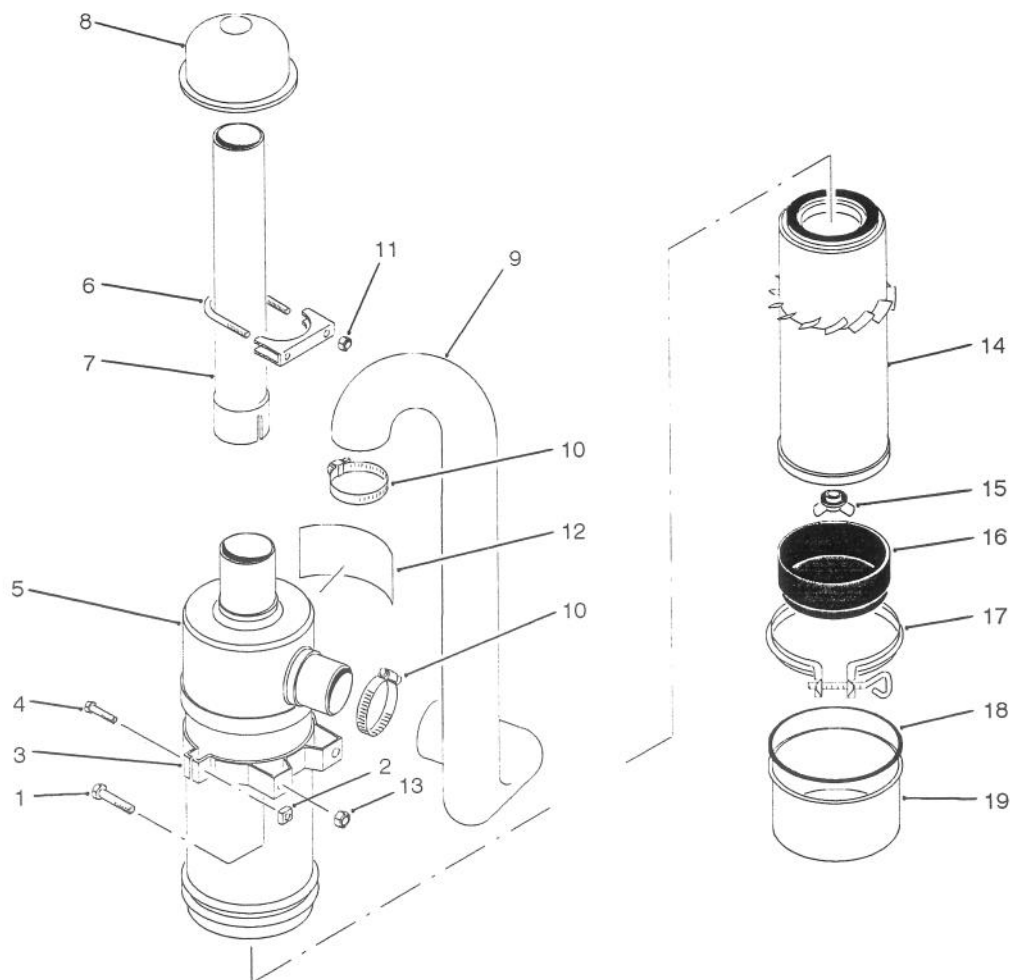
T-0933

## 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

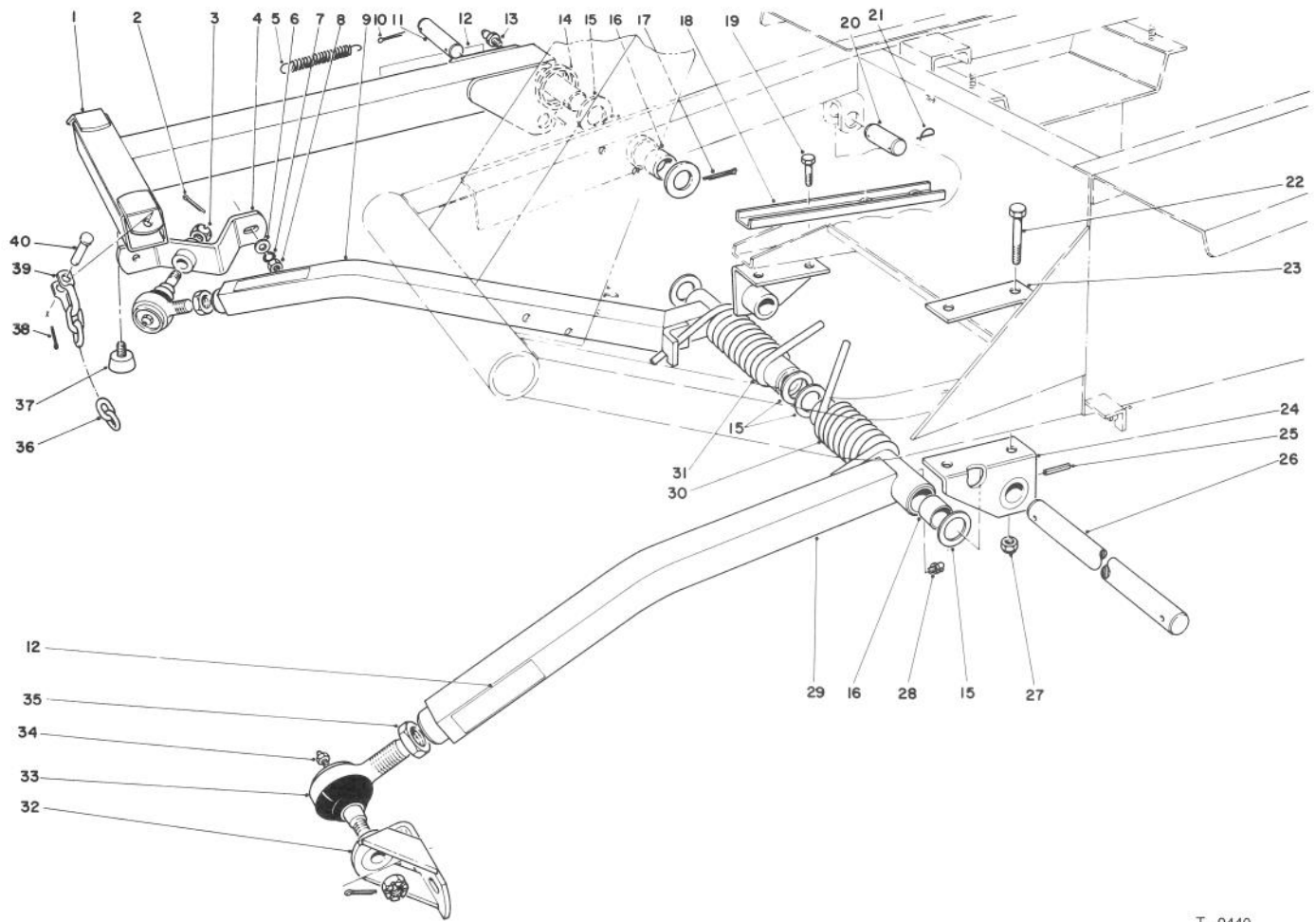




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## AIR CLEANER ASSEMBLY

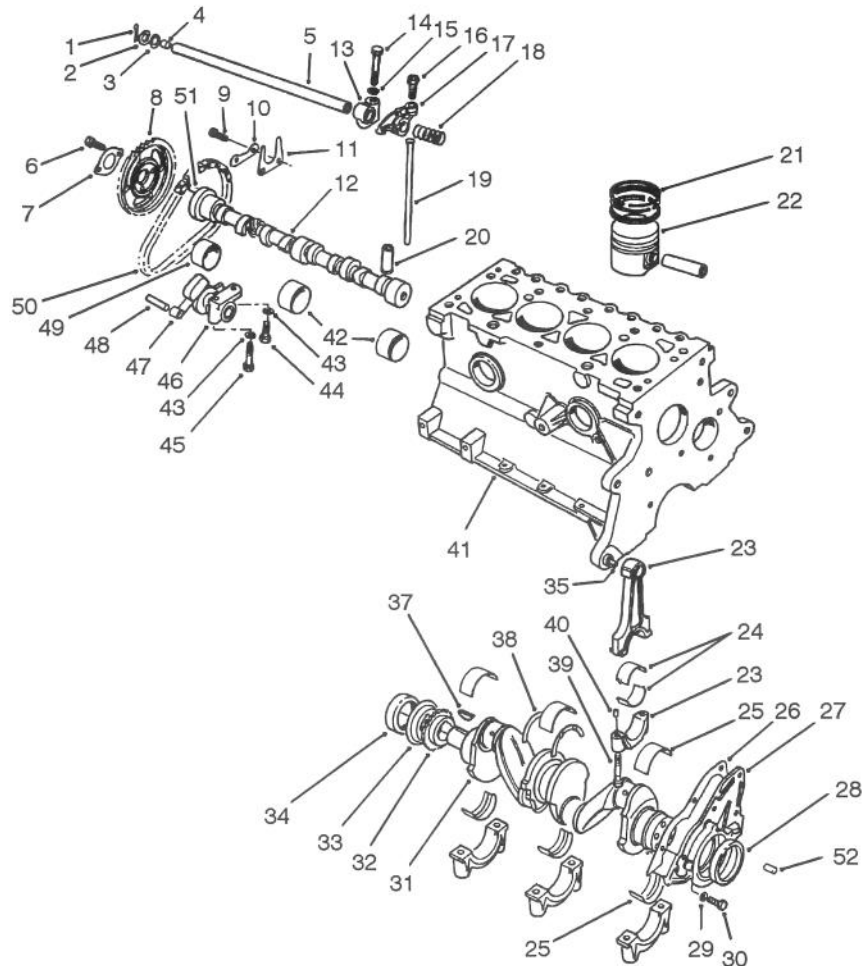
Ref. No.	Part No.	Description	No. Used	Ref. No.	Part No.	Description	No. Used
1	322-3	Screw - Cap, Hex. Hd.	4	9	82-5590	Hose - Air Cleaner	1
2	32107-11	Nut	2	10	2412-42	Hose Clamp	2
3	27-7170	Band Assembly (Incl. Ref. #2 & 4)	2	11	3217-6	Nut	2
4	3258-19	Round Hd. Machine Screw	2	12	27-7160	Decal - Instructions	1
5	27-7100	Air Cleaner Assembly (Incl. Ref. #12-18)	1	13	32128-20	Nut - Lock, Flange Hd.	4
6	20-4840	Muffer Clamp (Incl. Ref. #11)	1	14	27-7110	Element Assembly	1
7	43-3810	Tube Air Cleaner	1	15	27-7120	Nut & Gasket Assembly	1
8	27-7180	Cap Assembly - Air Inlet	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	Ref. No.	Part No.	Description	No. Used
1	66-6370	Lift Arm	1	21	5-3126	Spring Pin	3
2	3272-11	Cotter Pin	2	22	324-12	Capscrew	2
3	32136-2	Nut	2	23	21-3750	Support Plate	1
4	21-3020	Ball Joint Mount Rd. Hd.	1	24	21-2860	Push Arm Bracket	2
5	21-1830	Spring Tension	1	25	32121-84	Roll Pin	2
6	3256-25	Flat Washer	1	26	21-2990	Shaft Pivot	1
7	3253-6	Lockwasher	2	27	32128-42	Nut - Flange	4
8	3217-8	Full Nut	2	28	302-33	Grease Fitting	2
9	66-7150	Push Arm RH (Incl. Ref. #16 & 28)	1	29	21-2960	Push Arm LH (Incl. Ref. #16 & 28)	1
10	3272-24	Cotter Pin	1	30	21-2900	Spring - Torsion LH	1
11	24-9510	Pin	1	31	21-2890	Spring - Torsion RH	1
12	61-3610	Warning Decal	3	32	21-3050	Ball Joint Mount LH	1
13	302-5	Grease Fitting	1	33	86-8100	Ball Joint Assembly	2
14	46-8840	Spring Lift Arm	1	34	302-5	Grease Fitting	2
15	5-1754	Washer	6	35	21-3000	Jam Nut	2
16	256-126	Bushing	6	36	3-1365	Chain - Lift	3
17	3272-33	Cotter Pin	1	37	67-9800	Bumper	3
18	23-1950	Support Reinforcement	1	38	3272-10	Cotter Pin	3
19	324-4	Capscrew	2	39	5-2942	Shackle	1
20	3-7292	Pin	1	40	283-10	Pin	1



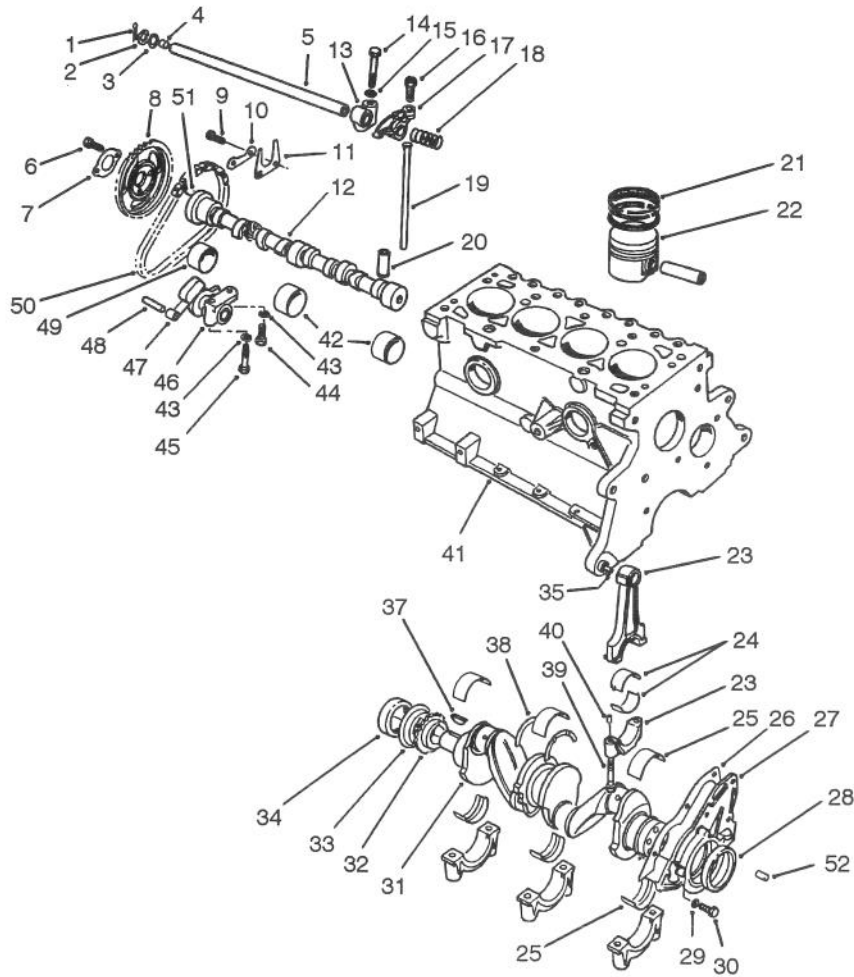
T-1004

## 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.



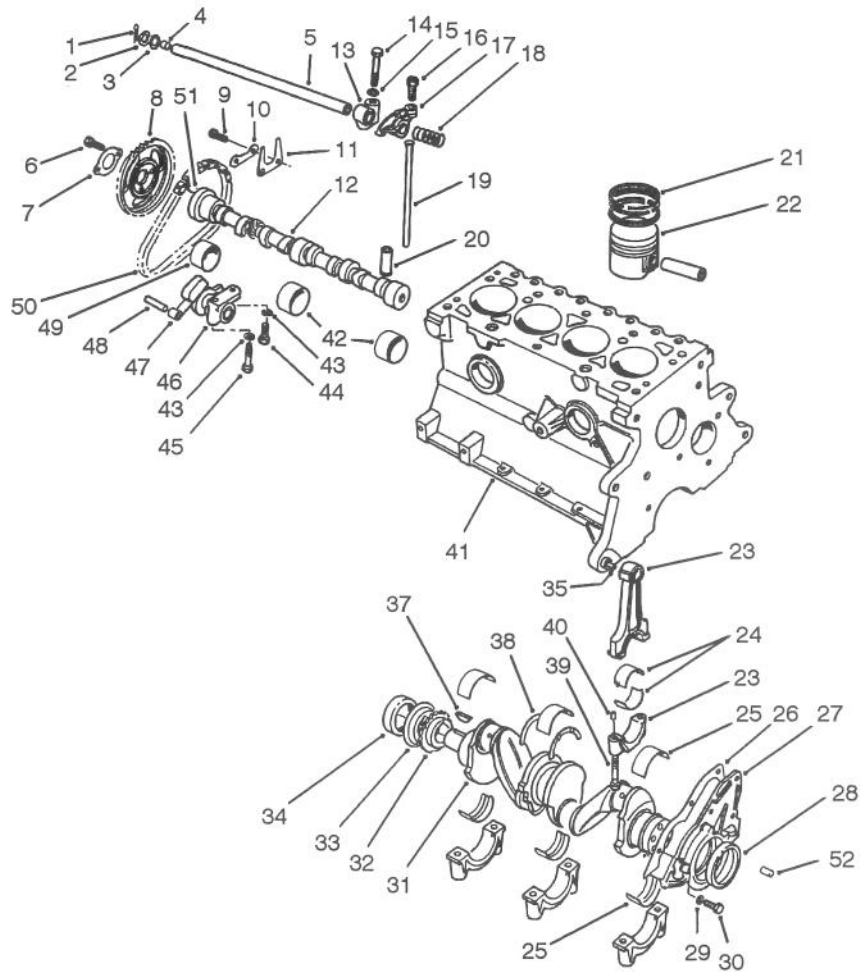
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## CRANKSHAFT & CAMSHAFT ASSEMBLY (Continued)

Ref. No.	Part No.	Description	No. Used	Ref. No.	Part No.	Description	No. Used
*25	89BM-6333-DA	Bearing - Crank Upper 015 OD STD. ID	A/R	27	86BM-6K318-AA	Retainer Assembly Rear	1
*	89BM-6331-DA	Bearing - Crank Lower 015 OD STD. ID	A/R	28	86HM-6701-A1A	Seal Crankshaft Rear	1
*	89BM-6333-EA	Bearing - Crank Upper STD. OD .020 US. ID	A/R	29	E630173-S71M	Lockwasher	4
*	89BM-6331-EA	Bearing - Crank Lower STD. OD .020 US. ID	A/R	30	E602187-S72	Bolt	4
*	89BM-6333-FA	Bearing - Crank Upper STD. OD .030 US. ID	A/R	31	89BM-6303-DA	Crankshaft Assembly	1
*	89BM-6331-FA	Bearing - Crank Lower STD. OD .030 US. ID	A/R	32	DORY-6306-A	Sprocket	1
*	89BM-6333-GA	Bearing - Crank Upper .015 OS. OD .010 US. ID	A/R	33	D8RZ-6310-A	Singer Oil	1
*	89BM-6331-GA	Bearing - Crank Lower .015 OS. OD .010 US. ID	A/R	34	83BM-6700-A4A	Seal - Front Cover	1
*	89BM-6333-HA	Bearing - Crank Upper .015 OS. OD .020 U.S. ID	A/R	35	70HM-6397-AA	Dowel	2
*	89BM-6331-HA	Bearing - Crank Lower .015 OS. OD .020 U.S. ID	A/R	37	DORY-6B316-A	Key - Woodruff	1
26	89BM-6344-BA	Gasket Rear Retainer	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

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



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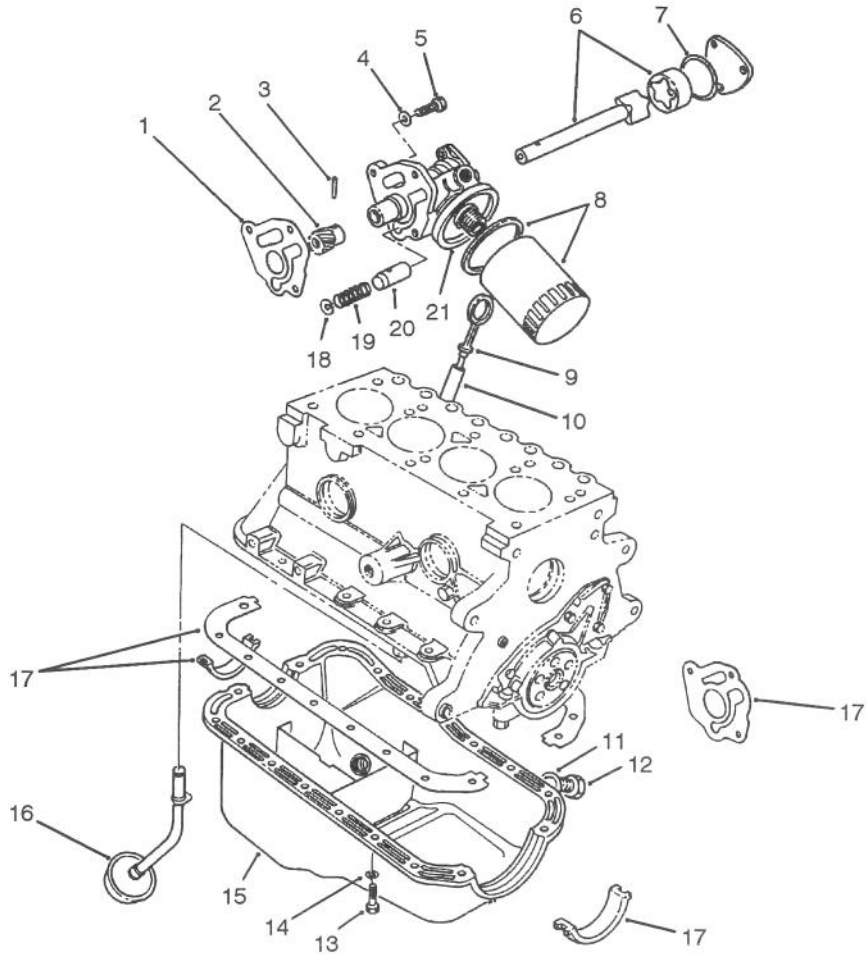
## CRANKSHAFT & CAMSHAFT ASSEMBLY (Continued)

Ref. No.	Part No.	Description	No. Used
47	77BM-6K255-AC	Arm - Tensioner	1
48	E43-CP-1	Pin	1
49	DORY-6261-A	Bearing - STD. ID STD. OD	1
*	DORY-6261-B	Bearing - STD. ID +.020 OD	A/R

Ref. No.	Part No.	Description	No. Used
50	DORY-6268-A	Chain	1
51	E93A-6253-A	Dowel	1
52	E-840161-S	Dowel	1
*	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.

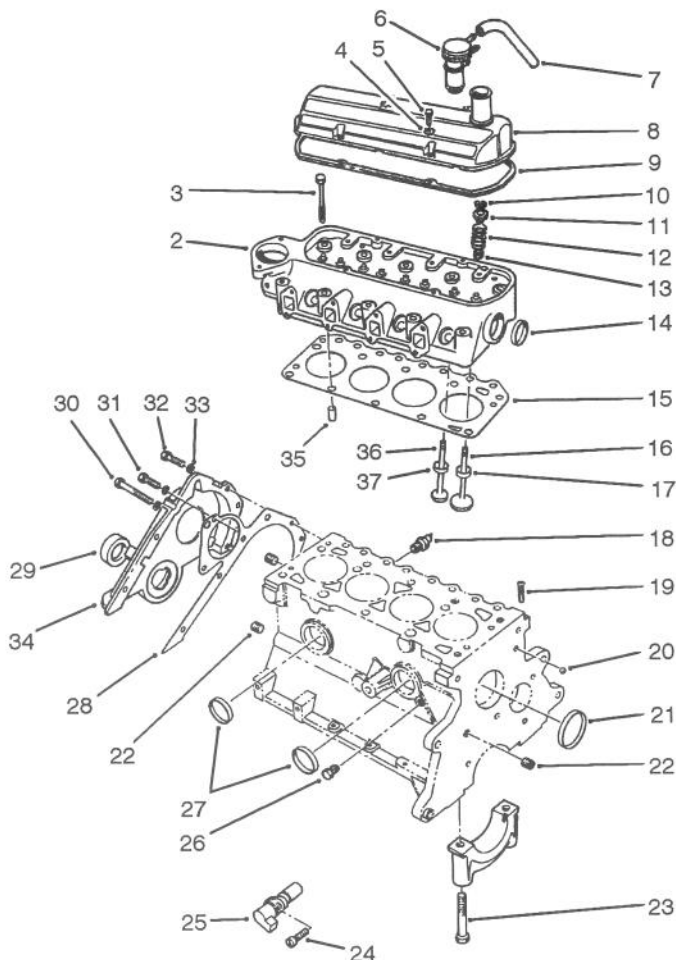


T-1003

## 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	E600519-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.



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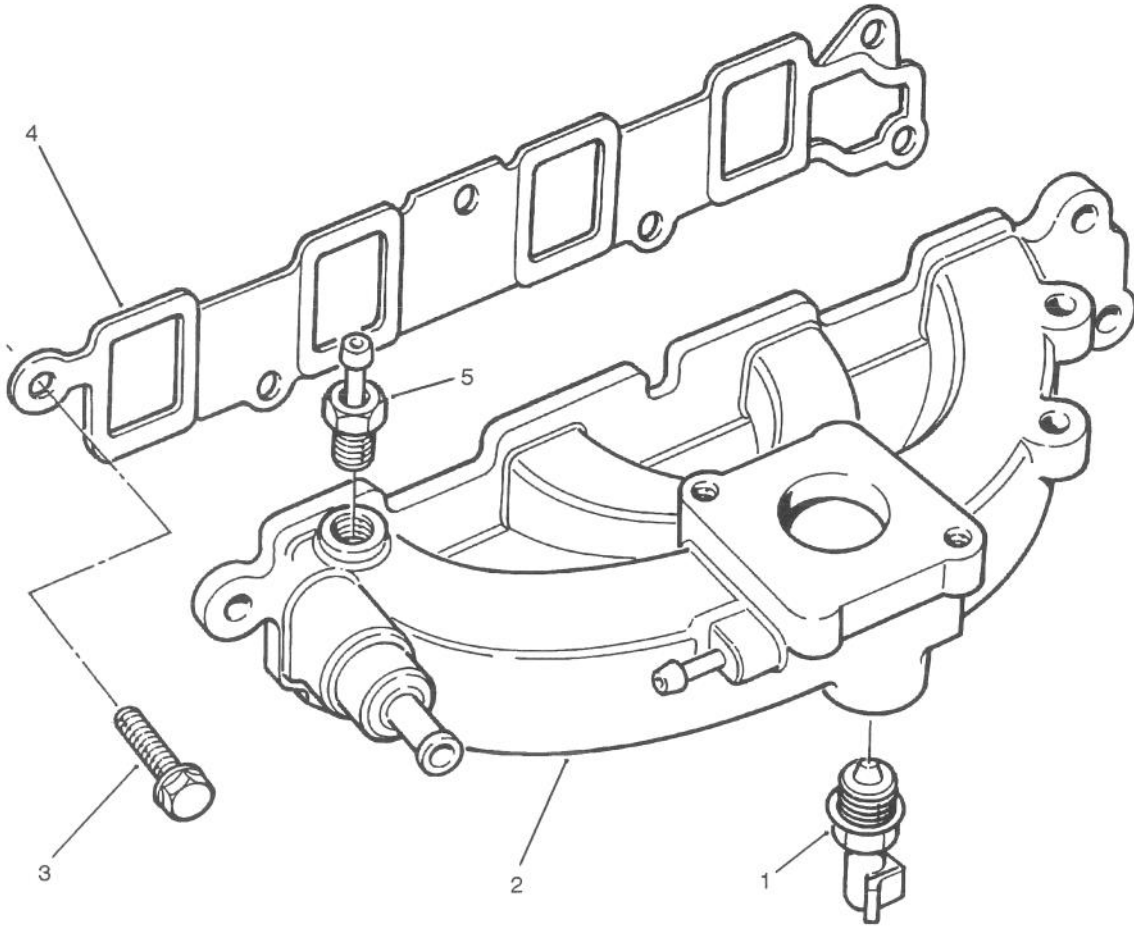
## CYLINDER HEAD & VALVE ASSEMBLY

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.



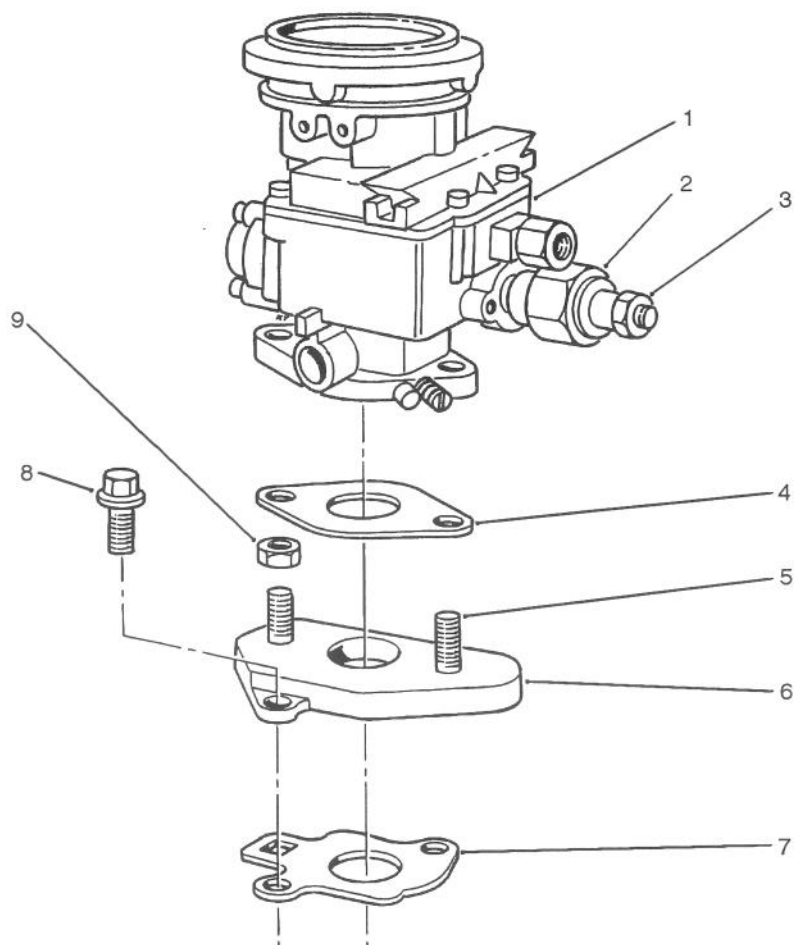


T-1176

### 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



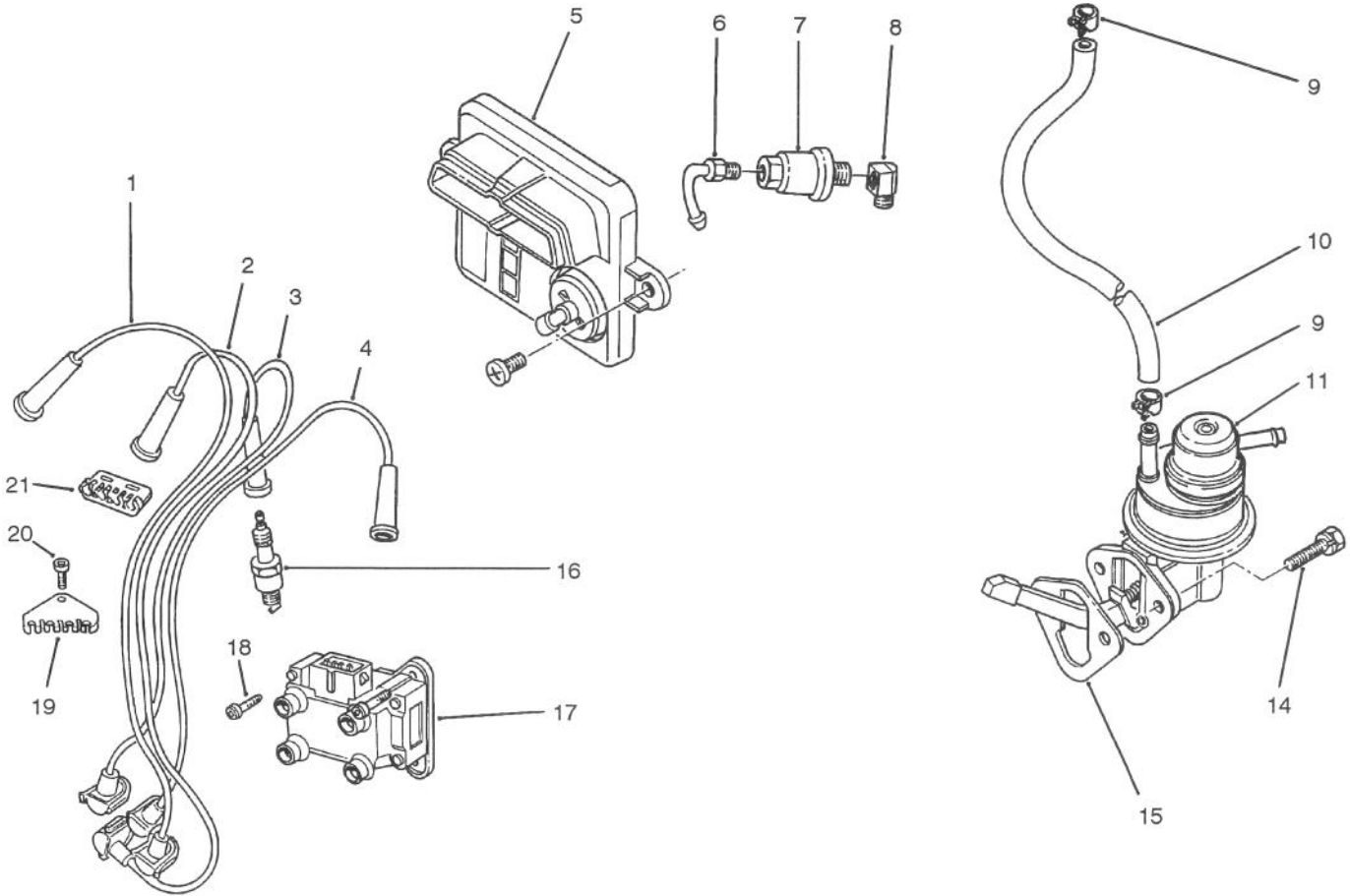
T-0999

## 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

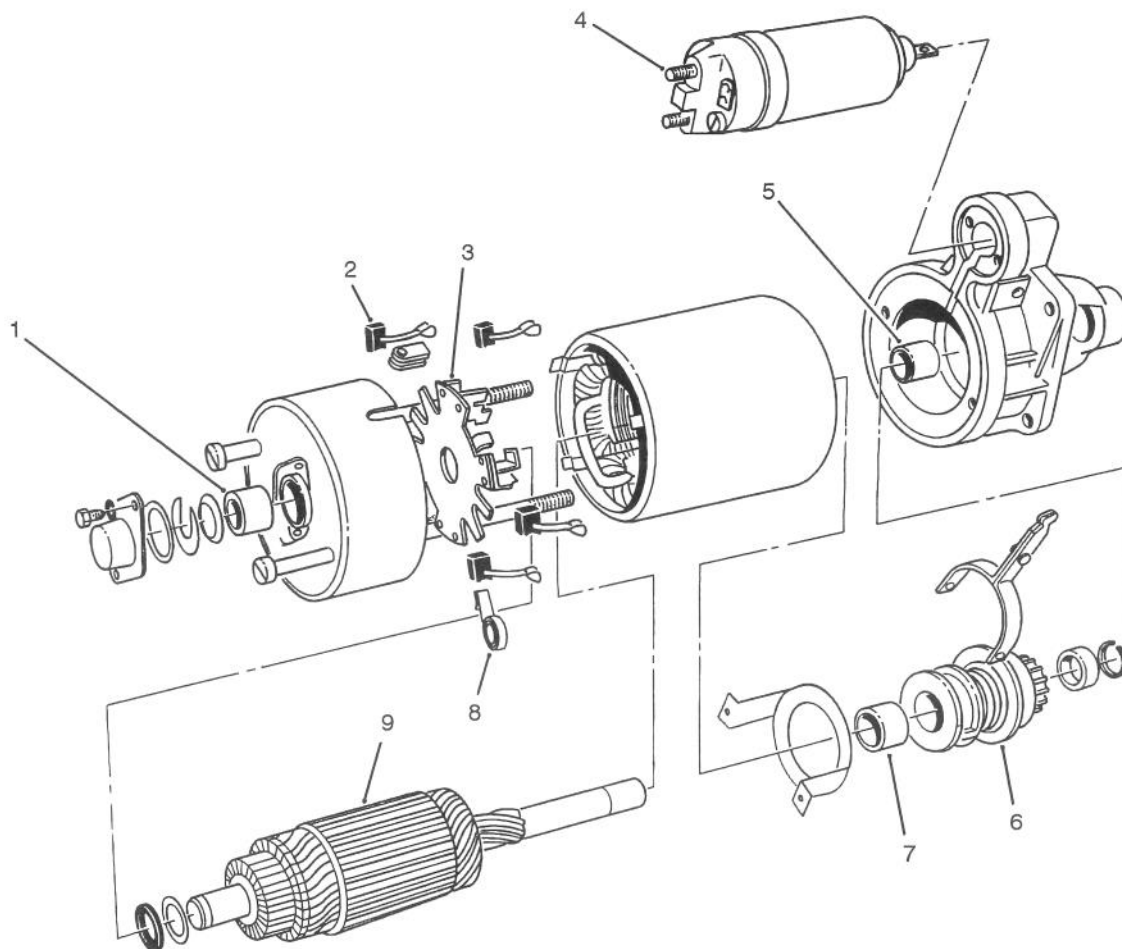
## IGNITION & FUEL PUMP ASSEMBLY

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	
*	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

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



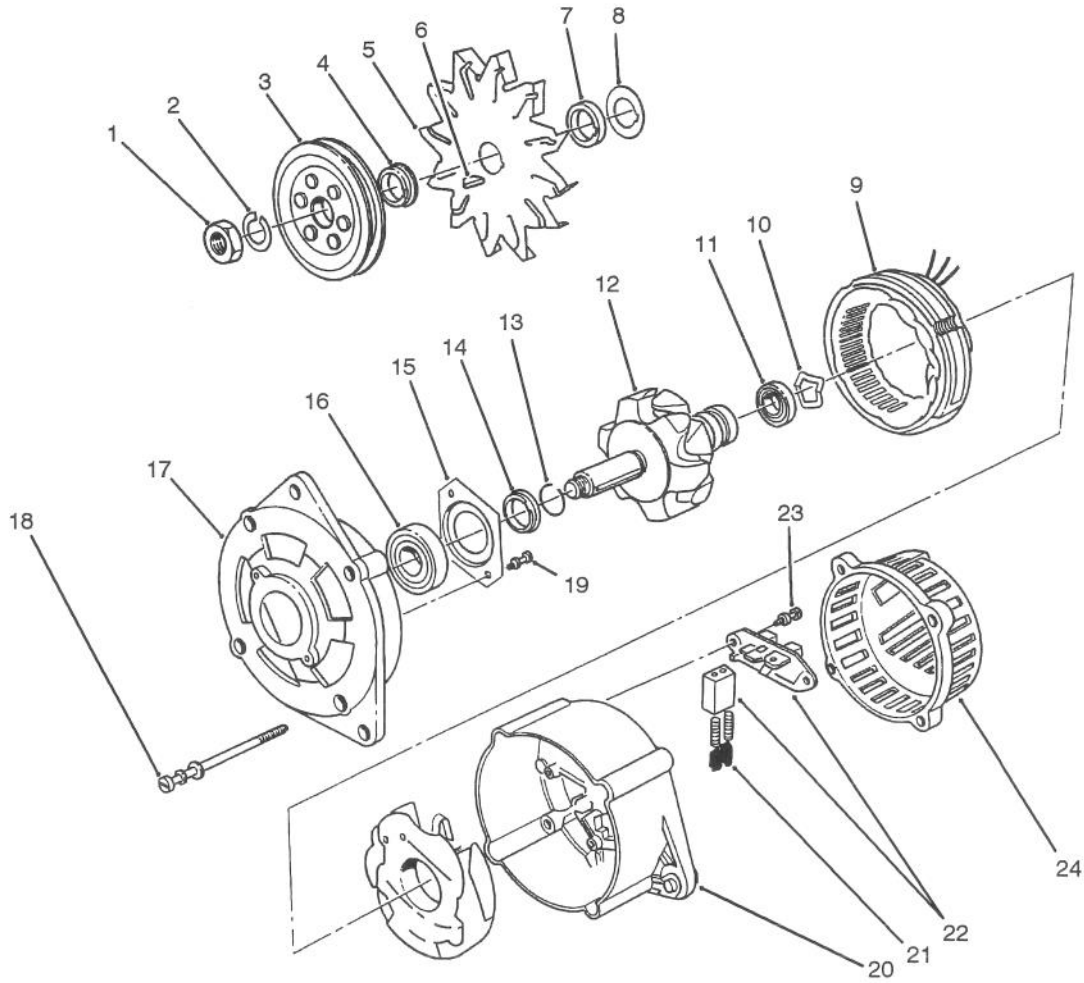
T-1005

## 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 (ID No. 1211512 Starter)	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	Ref. No.	Part No.	Description	No. Used
1		Nut	1	15		Plate - Bearing	1
2		Washer - Lock	1	16	71BB-10A303-AA	Bearing - Front	1
3	D5RY-10344-A	Pulley	1	17		Cover - Front	1
4		Bushing	1	18		Screw & Washer	4
5		Fan	1	19		Screw & Washer	2
6		Key - Woodruff	1	20		Housing	1
7		Bushing	1	21	E7RY-10347-A	Brush Set	2
8		Washer	1	22	86GB-10316-AA	Regulator Assembly	1
9		Stator Assembly	1	23		Screw & Washer	2
10		Retainer	1	24		Cover - Rear	1
11	D2RY-10A304-A	Bearing - Rear	1	*	D1RY-10B304-A	Pulley Installation Kit (Incl. Ref. #1, 2, 6, 7, 10 & 19)	1
12		Rotor	1	*	86AB-10300-AB	Alternator Complete	1
13		Retainer	1				
14		Bushing	1				

\*Not Illustrated

# TORO PART NUMBER INDEX

3315-260

Part No.	Description	Pg. Ref. No. No. Qty.	Part No.	Description	Pg. Ref. No. No. Qty.
3-1365	Chain - Lift	34 36 3	21-3050	Ball Joint Mount LH	34 32 1
3-3251	Spring - Compression	9 9 1	21-3370	Cable - R.H. Brake	9 * 1
3-6498	Washer	7 18 A/R	21-3380	Cable - L.H. Brake	9 15 1
3-6657	Clip	6 5 2	21-3600	Foam - Support Tank	14 1 1
3-7243	Spring - Extension	9 13 2	21-3610	Foam - Support Tank	14 13 1
3-7292	Pin	34 20 1	21-3750	Support Plate	34 23 1
3-8812	Spacer	7 19 1	21-5640	Joint - Ball	28 9 1
5-0652	Spacer	31 13 1	21-7670	Differential Case	16 33 1
5-0652	Spacer	7 37 1	21-7690	Pinion Gear	15 6 2
5-0701	Spring Anchor	8 52 1	21-7700	Pinion Mate Shaft	16 31 1
5-1226	Washer	18 17 A/R	21-7720	Thrust Washer	15 4 2
5-1747	Spring	7 21 1	21-7730	Thrust Washer	15 7 2
5-1754	Washer	34 15 6	21-7770	Drive Gear Screw	16 32 5
5-2942	Shackle	34 39 1	21-7830	Gear Cover	15 12 1
5-3126	Spring Pin	34 21 3	21-7850	Cap - Plug	15 20 1
7-3900	Pad - Brake	9 1 1	21-8020	Spacer - Pinion Bearing	16 25 1
10-6830	Stud - Drive	18 24 10	21-8090	Adjustment Shim .003	16 38 A/R
10-8110	Washer	18 18 3	21-8100	Adjustment Shim .005	16 37 A/R
11-0590	Screw - Hex Self-Tapping	5 36 2	21-8110	Adjustment Shim .010	16 36 A/R
11-0590	Screw - Hex. Hd. Tapping	9 5 2	21-8120	Adjustment Shim .030	16 35 A/R
11-9760	Self Tapping Screw	20 52 3	21-8180	Bearing	17 3 2
12-5450	Thread Forming Screw	15 13 8	21-8270	Dowel Pin	15 3 2
12-9990	Hour Meter	3 16 1	21-8320	Gasket - Wheel Bearing	17 20 2
14-8459	Hood	5 44 1	21-8360	Clip - Retaining	17 12 2
18-1520	Filter - Gas	14 43 1	21-8590	Link - Valve Lever	24 27 1
18-2770	Cable - Ground	2 51 1	21-8620	Lever Valve	24 2 1
18-5410	Spring - Torsion	32 31 1	21-8640	Latch Valve Lever	24 7 1
18-5430	Plug - Expansion	32 39 1	21-9010	Pivot Mount - Valve Lever	24 11 1
18-5440	Spacer	32 38 2	21-9260	Cover - Dust	11 4 1
18-5450	Bearing	32 35 2	21-9370	Screw - Adjusting	17 16 2
18-5520	Lever - Rocker	32 37 1	21-9380	Nut - Pivot	17 17 2
18-5530	Screw & Lockwasher	32 40 2	21-9390	Socket - Adjusting Screw	17 15 2
18-5540	Ring - Retaining	32 19 3	21-9420	Spring - Shoe Return L.H.	17 19 2
18-5580	Seal - Oil Front	32 7 1	21-9430	Spring - Shoe Return R.H.	17 7 2
18-5620	Screw	32 5 2	21-9440	Spring - Adjusting Screw	17 14 2
18-5630	Washer - Lock	32 6 4	21-9450	Dust Shield	17 5 2
18-5640	Ring - Retaining	32 10 2	21-9460	Retainer - Brake Lever	17 10 4
18-5660	Pin - Pivot Flyweight	32 42 2	22-7810	Spacer	14 24 1
18-5670	Retainer - Pin Pivot	32 41 2	22-7810	Spacer	3 27 1
18-5750	Pin	32 28 1	22-7820	Buzzer Assembly	3 28 1
18-5770	Washer - Lock	32 14 2	22-8330	Plug	27 1 2
18-5790	Gasket	32 11 1	22-8340	Spring	27 3 2
20-4840	Muffler Clamp	33 6 1	22-8350	Ball	27 4 2
21-0141	Socket Assembly R.H.	9 26 1	22-8360	Pin - Cam	27 6 2
21-0141	Socket Assembly R.H.	18 39 2	22-8370	Seat - Check Valve	27 5 2
21-0151	Socket Assembly L.H.	18 * 2	22-8380	Spring Retainer	27 10 1
21-0230	Pulley - P.T.O.	7 13 1	22-8390	Spring Retainer	27 12 1
21-0400	Spring - Compression	7 48 1	22-8400	Spacer Float	27 13 1
21-1600	Clamp P.T.O. Lever	8 54 1	22-8410	Spring	27 11 1
21-1820	Stud - Retainer Belt	29 1 3	22-8420	Spool	27 8 1
21-1830	Spring - Tension	7 50 1	22-8480	Spring Ring Spool	27 14 1
21-1830	Spring Tension	34 5 1	22-8490	Snap Ring	27 15 1
21-1880	Grip Handle	7 1 1	22-8500	O-Ring	27 9 2
21-2000	Rod - Tie	18 41 2	23-1950	Support Reinforcement	34 18 1
21-2370	Wire - Hour Meter Ground	4 1 1	23-2240	Rod - Pump Control	9 17 1
21-2660	Footrest	1 5 1	23-2270	Bushing - Rubber	9 16 1
21-2760	Pad - Foot Rest L.H.	2 46 1	23-5180	Dipstick	14 38 1
21-2770	Pad - Foot Rest R.H.	2 45 1	23-7270	Nut - Wheel	14 30 10
21-2820	Hub - Wheel	18 25 2	24-6390	Stud - Battery Hold Down	1 12 2
21-2850	Mount - R.H. Pedal	9 4 1	24-6420	Hold Down - Battery	1 20 1
21-2860	Push Arm Bracket	34 24 2	24-8790	Differential Bevel Gear Side	15 5 2
21-2890	Spring - Torsion RH	34 31 1	24-8840	Ring - Wheel Bearing	17 21 2
21-2900	Spring - Torsion LH	34 30 1	24-9180	Strut & Lever Parking Brake	17 4 2
21-2960	Push Arm LH	34 29 1	24-9510	Pin	34 11 1
21-2990	Shaft Pivot	34 26 1	24-9740	Cover - Battery Access	1 30 1
21-3000	Jam Nut	34 35 2	24-9830	Support - Axle	6 25 1
21-3020	Ball Joint Mount Rd. Hd.	34 4 1	25-2380	Thrust Plate	22 50 2

\*Not Illustrated



# TORO PART NUMBER INDEX (Cont.)

Part No.	Description	Pg. No.	Ref. No.	Qty.	Part No.	Description	Pg. No.	Ref. No.	Qty.
25-2390	Motor Valve Plate	23	57	1	31-0390	Disc - Friction	11	31	1
25-2400	Gasket	23	59	1	33-4380	Pump Hub	20	14	1
25-2410	Accel. Valve Assembly	22	17	2	37-9550	Strap - Tank Fuel	14	4	1
25-2420	Center Section	23	55	1	37-9650	Trim	1	26	1
25-2430	Dowel Pin	23	52	2	38-1650	Fuel Gauge	3	8	1
25-2440	Pump Valve Plate	23	51	1	38-1660	Ammeter	3	10	1
25-2450	Variable Swashplate	22	48	1	38-1670	Mounting Clamp	3	7	2
25-2460	Plug - Hex. Hd.	22	28	2	38-4530	Tool Box	2	40	1
25-2470	Shim Pack	22	29	2	38-4550	Instrument Cover	1	28	1
25-2480	Valve Spring	22	44	1	38-4600	Bar - Frame L.H.	5	23	1
25-2490	Ball	22	9	2	39-8020	Trim-Instrument Cover	1	31	1
25-2500	Trunion Shaft	22	43	1	41-8760	Gasket - Transmission	20	45	1
25-2510	Washer - Flat	22	25	2	42-6080	Shim - Axle	14	26	A/R
25-2530	Headless Straight Pin	22	39	1	42-9500	Screw - Metric	29	3	4
25-2550	Charge Pump Housing	22	34	1	42-9530	Screw - Metric	29	29	3
25-2570	Valve Spring	22	30	1	42-9600	Washer - Lock	29	7	8
25-2580	Trunion Shaft	22	26	1	42-9780	Washer - Flat	29	30	4
25-2610	Accel. Valve Spring	22	16	1	42-9780	Washer - Flat	28	31	1
25-2620	By Pass Valve	22	15	1	42-9850	Washer - Lock	29	4	8
25-2630	Back Up Ring	22	14	1	43-1710	Valve Assembly	24	13	1
25-2640	Valve Spring	22	8	2	43-1730	Body	27	7	1
25-2650	Check Valve Plug	22	6	2	43-2600	Screw - Metric	29	6	3
25-2680	Gerotor Assembly	22	38	1	43-3320	Foam - Radiator	5	33	2
25-3180	Check Valve Kit	22	11	2	43-3720	Collar Bearing	29	48	1
25-3190	Charge Pump	22	40	1	43-3780	Swivel - Cable Throttle	28	13	1
25-3210	Lip Seal	22	24	2	43-3800	Bushing - P.T.O. Fork	7	23	2
25-8640	Screw - Machine	28	11	1	43-3810	Tube Air Cleaner	33	7	1
26-6740	Temperature Reset Relay	3	13	1	43-3860	Shaft - Pivot P.T.O.	7	9	1
27-1960	Hub - Engine	30	53	1	43-4300	Trim - Rear Frame	2	32	2
27-2360	Switch	3	15	1	43-5500	Pivot P.T.O.	7	31	1
27-6590	Spacer Rubber Coupling	20	22	2	43-5540	Shaft P.T.O.	7	43	1
27-6600	Spacer Rubber Coupling	20	20	6	43-5550	Shaft - P.T.O. Actuator	7	32	1
27-7100	Air Cleaner Assembly	33	5	1	43-5570	Arm - P.T.O. Actuator	7	38	1
27-7110	Element Assembly	33	14	1	43-5590	Arm - P.T.O.	7	30	1
27-7120	Nut & Gasket Assembly	33	15	1	43-5610	Fork P.T.O.	7	24	1
27-7130	Clamp Assembly	33	17	1	43-5630	Yoke - P.T.O.	7	51	1
27-7140	Skirt - Baffle	33	16	1	43-5930	Washer - Lock	29	17	3
27-7150	Cup Assembly	33	19	1	43-5930	Washer - Metric	5	4	2
27-7160	Decal - Instructions	33	12	1	43-6510	Gear & Pinion Assembly	16	*	1
27-7170	Band Assembly	33	3	2	43-6550	Snap Ring	15	21	1
27-7180	Cap Assembly - Air Inlet	33	8	1	43-6710	Adjustment Shim .003	15	15	A/R
27-7280	Decal - Starting Instructions	1	29	1	43-6711	Adjustment Shim .005	15	16	A/R
27-7290	Decal - Power Take Off	1	16	1	43-6712	Adjustment Shim .010	15	17	A/R
27-7310	Decal - Refueling	2	39	1	43-6713	Adjustment Shim .030	15	18	A/R
27-7320	Decal - Traction Pedal	1	1	1	43-6750	Roller Bearing Cup	15	10	1
27-7370	Brake Assembly P.T.O.	7	25	1	43-6760	Roller Bearing Cone	15	9	1
27-7490	Pedal - L.H. Brake	9	41	1	43-6800	Nut - Lock	17	18	8
27-7510	Pedal - R.H. Brake	9	42	1	43-6810	Torque - Spider	17	6	2
27-7570	Pad - Left Turn	9	38	1	43-6840	Lower Housing	16	34	1
27-7580	Pad - Right Turn	9	2	1	43-8600	Spring - Compression	6	11	1
27-7590	Mount - Brake	9	34	1	43-8600	Spring - Compression	8	66	1
27-7640	Shaft - Brake Latch	9	36	1	43-8610	Guide - Spring & Ball Seat	7	5	1
27-7900	Screw - Adjusting	7	35	1	43-8610	Guide - Spring & Ball Seat	6	12	1
27-8550	Pedal - Parking Brake	9	45	1	43-8620	Guide - Switch Pin	6	9	1
27-9270	Mount - Brake Pivot Shaft	9	35	1	43-8620	Guide - Switch Pin	8	68	1
28-0650	Flanged Axle Shaft	17	1	2	43-8860	Plunger - Switch	6	10	1
28-0660	Screw - Cap, Hex. Hd.	17	22	8	43-8860	Plunger - Switch	8	67	1
28-0670	Oil Seal	17	8	2	43-8870	Boot - Switch	6	1	1
28-0680	Brake Drum	17	13	2	43-8870	Boot - Switch	8	71	1
28-1280	Boot - Cable	1	18	1	43-9110	Tank - Fuel	14	12	1
28-5220	Wheel - Friction	9	25	1	44-2210	Warning Light	3	30	1
28-9570	Pump Lever	20	51	1	44-2230	Rubber Coupling	20	17	2
29-6120	Pump Plate	20	3	1	46-2210	Shim - Front Pinion Bearing	15	22	A/R
29-6150	Leaf Spring	20	46	1	46-2211	Shim - Front Pinion Bearing	15	*	A/R
29-6163	Micro Switch	20	2	1	46-2212	Shim - Front Pinion Bearing	15	*22	A/R
29-6170	Extended Leaf Spring	20	7	1	46-2213	Shim - Front Pinion Bearing	15	*	A/R
30-2120	Screw - Cap, Hex. Hd.	7	22	2	46-2214	Shim - Front Pinion Bearing	15	*	A/R

\*Not Illustrated



# 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.
46-2215	Shim - Front Pinion Bearing	15	*A/R/		62-4250	Cylinder - Hydraulic	24	21	1
46-2216	Shim - Front Pinion Bearing	15	* A/R		62-4260	Drive Shaft Assembly	7	44	1
46-2220	Shim - Front Pinion Bearing	15	* A/R		62-4290	O-Ring	23	54	2
46-2221	Shim - Front Pinion Bearing	15	* A/R		62-6840	Sender - Fuel Level	14	6	1
46-2222	Shim - Front Pinion Bearing	15	* A/R		62-7020	Wheel & Tire Assembly	14	*	2
46-2223	Shim - Front Pinion Bearing	15	* A/R		62-7650	Gasket - Tank Fuel	14	5	1
46-2224	Shim - Front Pinion Bearing	15	* A/R		63-1400	Rod - Belt	30	54	1
46-2225	Shim - Front Pinion Bearing	15	* A/R		63-7590	Relay	3	23	1
46-2226	Shim - Front Pinion Bearing	15	* A/R		63-7630	Hose - Vent Fuel	14	10	1
46-2410	Shim - Front Pinion Bearing	15	* A/R		63-8140	Pulley - Idler	29	11	1
46-2411	Shim - Front Pinion Bearing	16	*22 A/R		63-8360	Key	3	12	1
46-2412	Shim - Front Pinion Bearing	16	* A/R		63-8960	Hose Assembly	5	32	1
46-2413	Shim - Front Pinion Bearing	16	* A/R		63-8970	Hose - Trans. to Steering	11	14	1
46-2414	Shim - Front Pinion Bearing	16	* A/R		63-8980	Hose - Aux. to Valve	11	22	1
46-2415	Shim - Front Pinion Bearing	16	* A/R		63-8990	Hose	24	15	1
46-2416	Shim - Front Pinion Bearing	16	* A/R		63-8990	Hose	11	23	1
46-2420	Shim - Front Pinion Bearing	16	* A/R		63-9010	Hose Assembly	5	24	1
46-2421	Shim - Front Pinion Bearing	16	* A/R		63-9170	Spindle Assy. L.H.	18	23	1
46-2422	Shim - Front Pinion Bearing	16	* A/R		63-9180	Spindle Assembly R.H.	18	46	1
46-2423	Shim - Front Pinion Bearing	16	* A/R		63-9220	Pivot - Steering	18	38	1
46-2424	Shim - Front Pinion Bearing	16	* A/R		63-9240	Cylinder - Hydraulic	18	11	1
46-2425	Shim - Front Pinion Bearing	16	*22 A/R		63-9250	Valve - Steering, Power	11	25	1
46-2426	Shim - Front Pinion Bearing	16	* A/R		63-9260	Manifold - Valve	24	17	1
46-6390	Drive Coupling	20	18	1	65-2970	Line - Gas	24	22	1
46-8400	Needle Bearing	23	53	2	66-1250	Cylinder - Hydraulic	24	*	1
46-8410	Motor Shaft	23	58	1	66-1910	Piston Rod Assembly	19	4	1
46-8810	Stop - Leaf Spring	21	56	1	66-1930	Nut - Lock	19	6	1
46-8840	Spring Lift Arm	34	14	1	66-1940	Piston	19	5	1
48-1800	Cylinder Block Kit	22	5	2	66-1950	Gland	19	3	1
48-7630	Screw - Metric	5	5	2	66-1960	Seal Kit	19	2	1
48-7710	Screw - Cap, Hex Hd.	28	32	1	66-3240	Cap - Pressure Radiator	5	6	1
48-7730	Screw - Metric	29	5	1	66-6140	Decal - Toro	5	9	1
48-7780	Screw - Metric	29	33	2	66-6370	Lift Arm	34	1	1
48-7800	Screw - Metric	29	8	3	66-6390	Decal - Caution	1	4	1
48-7890	Nut - Metric	5	3	2	66-7150	Push Arm RH	34	9	1
48-7930	Nut Metric	29	32	2	66-9760	Nut - Hex.	11	2	1
48-9470	Screw - Metric	29	27	3	66-9770	Seal	12	28	1
53-4420	Decal - Fuel	2	38	1	66-9780	Bushing	12	29	1
53-4430	Decal - Oil	14	39	1	66-9850	Bolt - Special	12	36	4
53-9480	Washer - Snubber	31	21	2	66-9860	Upper Cover & Jacket	12	37	1
53-9480	Washer - Snubber	29	35	2	66-9870	Plate - Retaining	12	38	1
53-9660	V-Belt Torque Team	7	12	1	66-9880	Washer - Retaining Plate	12	39	1
53-9680	Mount - Engine	31	20	2	66-9890	Ring - Retaining	12	40	1
53-9680	Mount - Engine	29	46	2	66-9900	Shaft - Input	12	41	1
54-7890	Pump Housing	22	22	1	66-9970	Spring Kit	12	*	1
54-9040	Yoke - End (Split)	8	63	1	66-9980	Seal Kit	12	*	1
54-9180	Kit - U-Joint	8	58	2	66-9990	Needle Roller Kit	12	*	1
54-9290	Bracket	20	29	2	67-1710	Decal - Caution	1	27	1
54-9300	Cover	20	28	1	67-1720	Decal - Torque	2	41	2
55-3574	Cap - Tank Fuel	14	11	1	67-1750	Bushing - Axle	18	21	6
56-2460	Washer	18	45	A/R	67-5450	Piston	26	6	1
56-7980	Sleeve - Protective	14	17	1	67-5460	Head	26	5	1
59-9740	Latch - Draw	5	20	1	67-5470	Ring - Retaining	26	4	1
60-9760	Nut	25	7	1	67-5480	Shaft	26	2	1
60-9760	Nut - Hex	26	7	1	67-5500	Repair Kit	26	3	1
60-9770	Piston	25	6	1	67-7250	Spacer - Ring	18	10	1
60-9780	Head	25	5	1	67-8020	Pump Shaft	22	20	1
61-3610	Warning Decal	34	12	3	67-8050	Needle Bearing	22	35	1
61-4960	Repair Kit	25	3	1	67-8060	Lip Seal	22	36	1
61-4980	Shaft - w/Clevis	25	2	1	67-8110	Oil Filter	20	34	1
61-4990	Ring - Retaining	25	4	1	67-8130	Support - Axle Rear	18	5	1
62-3010	Bracket - R.H.	6	15	1	67-8170	Pin - Axle Rear	18	48	1
62-3020	Bracket - L.H.	6	17	1	67-8190	Bracket - Engine Support	6	20	2
62-3290	Shaft - Slip Yoke	8	60	1	67-8240	Bracket - Throttle	28	23	1
62-3790	Tube - Slip Yoke	8	62	1	67-8250	Rod - Throttle	28	16	1
62-3800	Yoke - End	8	57	1	67-8260	Mount - Engine	29	37	1
62-3820	Fitting - Grease	8	59	2	67-8310	Mount - Engine	29	13	1

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# TORO PART NUMBER INDEX (Cont.)

Part No.	Description	Pg. No.	Ref. No.	Qty.	Part No.	Description	Pg. No.	Ref. No.	Qty.
67-8340	Bar - Spacer	29	16	1	70-2130	Clamp - Bearing to Cover	32	13	1
67-8350	Bracket - Guide Belt	29	15	1	70-2140	Bearing - Front	32	12	1
67-8360	Governor	28	14	1	70-2150	Flyweight	32	15	2
67-8370	Hub	32	4	1	70-2160	Bracket - Speed Stop	32	2	1
67-8380	Pulley - Fan	28	7	1	70-2200	Decal - Toro	1	2	1
67-8390	Spacer - Fan	28	6	1	70-2620	Elbow - 90°	20	38	1
67-8420	Bracket - Muffler	31	15	1	71-3580	Hose - Valve to Cylinder	24	19	1
67-8440	Plate - Support Engine	31	25	1	71-4370	Transmission - Inline	20	42	1
67-8460	Pulley - Engine	29	42	1	71-4540	Washer - Thrust	18	7	2
67-8480	Support - Engine Rear	31	18	1	71-4770	Screw	32	45	2
67-8510	Belt - Fan	28	5	1	71-4780	Seal - Oil Rocker Shaft	32	27	1
67-8520	Belt - Alternator	29	40	1	72-3690	Fender	1	9	2
67-8540	Cable - Ground	4	4	1	72-3750	Roller Bearing	22	2	1
67-8550	Engine Temperature Gauge	3	11	1	72-4320	Switch - Ball	7	3	1
67-8560	Throttle & Choke Control	3	31	2	72-4320	Switch - Ball	6	14	1
67-8590	Radiator Assembly	5	37	1	72-5850	Pin - Force Idle	32	25	1
67-8640	Shroud - Radiator	5	17	1	72-5860	Spring - Governor	32	24	1
67-8660	Hose - Radiator Lower	5	21	1	72-5860	Spring - Governor	32	24	1
67-8690	Support - Column	11	7	1	72-5870	Eyebolt	32	33	1
67-8880	Decal - Groundsmaster 345	5	8	2	72-5880	Throttle Lever Assy.	32	32	1
67-8890	Arm - Idler	29	12	1	72-5890	Shaft - Rocker	32	30	1
67-8900	Spacer - Alternator	29	38	1	72-5910	Bumper Screw Assy.	32	34	1
67-8910	Spacer - Pulley	29	19	1	72-5920	Screw	32	3	1
67-8920	Shield - Heat	28	27	1	72-5930	Screw	32	26	1
67-8940	Connector - Outlet	31	5	1	72-5940	Bearing - Needle	32	20	1
67-8960	Weight - Axle Rear	18	1	1	72-9420	Vent Tube Assembly	16	39	1
67-9010	Spacer - Alternator	29	31	1	74-0720	Tube - Manual	6	2	1
67-9030	Grille - Radiator	5	38	1	74-9510	Washer	23	60	4
67-9080	Motor Housing	22	4	1	75-0560	Steering Wheel Assembly	11	3	1
67-9090	Plug	22	42	1	75-9900	Support - Engine Front	29	9	1
67-9100	Gasket	22	10	1	76-1900	O-Ring	22	18	2
67-9120	Muffler	31	16	1	76-8750	Deca Warning	5	13	1
67-9130	Pipe - Muffler	31	11	1	77-3100	Decal - Warning	5	15	2
67-9150	Support - Governor	28	30	1	77-3120	Bracket - Mount, Column	11	9	1
67-9160	Axle - Rear	18	20	1	80-2880	Bracket - Steering, Tilt	11	40	1
67-9410	Washer	18	9	2	80-2890	Handle - Steering, Tilt	11	34	1
67-9800	Bumper	34	37	3	80-2930	Washer	11	39	1
68-5140	Cap - Wheel, Steering	11	46	1	80-2940	Plate - Pivot	11	29	1
68-5370	Decal - Toro	11	1	1	80-2960	Spacer - Tower	11	10	2
68-8610	Fender - Extension	2	42	1	80-2970	Pin - Steering, Tilt	11	33	1
68-8660	Elbow	20	31	1	80-2980	Boss - Pin	11	32	1
68-8990	Head - Filter	20	33	1	80-3330	Gasket	33	18	1
68-9160	Bracket	5	29	1	82-5590	Hose - Air Cleaner	33	9	1
68-9650	Hose - Axle	20	37	1	82-8650	Clamp - Half	11	37	1
68-9710	Hose - Steering Cylinder	14	16	2	82-8660	Cover - Tower	11	5	1
68-9720	Hose - Cylinder to Steering	11	19	1	82-8670	Rod - Brake Latch	9	10	1
68-9730	Hose - Steering to Cylinder	11	18	1	82-8760	Elbow	11	12	1
68-9760	Base - Tank Fuel	14	40	1	82-8770	Elbow	11	21	1
70-1380	Sleeve - Protective	11	17	1	82-8930	Decal - Parking Brake	9	12	1
70-1390	Sleeve - Protective	11	15	1	82-8940	Decal - Steering, Tilt	11	44	1
70-1630	Hose - Radiator Upper	5	14	1	82-8970	Decal - Coolant Engine	5	2	1
70-1660	Bracket - E.S.C.	5	42	1	82-8980	Frame	1	3	1
70-1670	Hose - Heater	31	4	1	82-9010	Disc - Friction	11	38	1
70-1690	Adapter - Gauge Temp.	31	2	1	82-9970	Frame	1	3	1
70-1790	Strip - Foam Sealing	5	34	1	83-7260	Relief Valve Cone	22	31	2
70-1890	Guard - Flywheel	6	18	1	84-4890	Assembly - Drive Shaft	8	*	1
70-1910	Hose - Vac. Advance	29	25	1	84-5330	Bracket - Hood Prop	5	50	1
70-1920	Hose - Vacuum	29	20	1	84-5380	Strap - Hood Prop	5	49	1
70-2040	Guard - Trim	28	29	1	84-8500	Lever - P.T.O.	7	2	1
70-2050	Hose - Breather	31	8	1	84-8520	Bracket - P.T.O. Switch	7	6	1
70-2060	Cover - Governor	32	8	1	84-8600	Shoe & Lining Assembly	17	9	1
70-2070	Lever - Speed Adjusting	32	21	1	85-7470	Decal - Instrument Panel	3	2	1
70-2080	Body	32	36	1	86-5240	Wire - Harness Assembly	4	2	1
70-2090	Stud - Pivot Lever	32	22	1	86-7040	Rod - Seat Prop	6	6	1
70-2100	Sleeve & Bearing Assy.	32	18	1	86-7050	Bracket - Switch Actuator	8	73	1
70-2110	Main Shaft & Yoke	32	17	1	86-7060	Bracket - Hood Hold Down	5	54	1
70-2120	Spacer	32	43	1	86-7220	Gear - Transmission Output	20	44	1

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Part No.	Description	Pg. Ref.		Part No.	Description	Pg. Ref.	
		No.	Qty.			No.	Qty.
86-7230	Spur-Gear	15	14	1	237-95	O-Ring	22 41 1
86-7920	Cover - Spark Plug Wire	31	41	3	241-119	Cap - Dust	18 32 2
86-7921	Cover - Spark Plug Wire	31	40	1	242-34	Axle Flange Stud	17 11 10
86-8100	Ball Joint Assembly	34	33	2	242-50	Nut - Wheel	18 31 10
86-9400	Support - Radiator	3	40	1	249-21	Hook Clamp	1 14 3
86-9370	Panel - Instrument	3	1	1	249-40	Keeper	5 11 1
86-9400	Support - Radiator	5	40	1	2412-3	Clamp - Hose	5 7 4
86-9410	Support - Seat	5	52	1	2412-6	Clamp	14 9 1
86-9580	Upper Housing	16	26	1	2412-31	Clamp - Cable	28 20 1
86-9600	Front Axle Assembly	14	27	1	2412-34	Clamp - Hose	20 36 2
88-0070	Floor Plate	2	47	1	2412-36	Clamp	11 24 2
88-0470	Tube - Pedal Spacer	10	49	1	2412-36	Clamp - Hose	24 16 1
88-0530	Pedal - Traction	9	18	1	2412-39	Clamp	1 24 2
88-1640	Pin - Traction Pedal	9	20	1	2412-39	Clamp	5 35 2
88-1650	Shaft - Traction Pedal	9	22	1	2412-39	Clamp - R	31 10 1
88-1670	Bracket - Pivot	9	23	1	2412-39	R-Clamp	14 18 1
88-1680	Bracket - Footrest	9	48	1	2412-42	Hose Clamp	33 10 2
88-1710	Footrest	10	50	1	2412-74	Clamp	2 34 2
88-1720	Pad - Footrest	10	51	1	2412-96	Clamp - R	14 21 1
88-1730	Pad - Front Pedal	9	47	1	2412-108	Clamp	31 9 2
88-1740	Pad - Rear Pedal	9	19	1	2412-108	Clamp	14 23 3
92-1661	Hose - Fuel	14	44	1	2412-108	Clamp Hose	24 28 2
92-1662	Hose - Fuel	14	22	1	2412-119	Clamp - Hose	31 3 2
92-1773	Screw - Cap, Hex. Hd.	15	11	4	2412-133	R-Clamp	6 3 2
92-1774	Oil Seal	17	2	2	251-8	Ball Bearing	22 46 1
212-93	Wire Clip	8	53	1	251-234	Lock Collar	7 41 2
217-106	Wheel	18	30	2	251-252	Ball Bearing	7 40 2
217-116	Rim - 23 x 10.5 x 12	14	*	2	251-252	Bearing	29 49 1
217-117	Rim	14	29	2	251-259	Ball Bearing	20 5 1
218-461	Nut - Jam	6	7	2	252-82	Needle Bearing	22 23 2
218-461	Nut - Jam	8	70	2	253-129	Closure	18 36 2
218-515	Mounting Bracket	3	22	1	254-65	Cone - Tapered Bearing	16 28 2
218-516	Lens	3	4	1	254-66	Cup - Tapered Bearing	16 27 2
218-539	Clamp	3	9	1	254-72	Cup - Bearing	18 26 4
2112-6	Clamp - Muffler	31	12	1	254-90	Bearing Cup	16 24 1
231-90	Tube - Inner (Optional)	14	*	2	254-91	Bearing Cone	16 23 1
231-95	Tire - 23 x 10.5 x 12	14	*	2	254-94	Cone - Bearing	18 27 4
231-101	Tire	14	28	2	256-10	Bushing	9 43 4
231-105	Tire	18	28	2	256-121	Bushing - Thrust	18 22 2
232-27	Stem - Valve - 23 x 10.5 x 12	14	*	2	256-126	Bushing	34 16 6
232-31	Stem - Valve	14	31	2	256-156	Bushing	9 6 5
232-31	Stem - Valve w/Cap	18	34	2	256-242	Bushing	18 44 2
233-17	Knob	9	11	1	283-8	Clevis Pin	7 26 1
233-21	Knob	24	3	1	283-10	Pin	34 40 1
233-21	Knob - Handle	11	35	1	283-17	Pin	24 26 1
233-35	Knob - Control	3	3	2	283-42	Clevis Pin	7 7 1
237-7	Seal - O-Ring	6	8	1	283-58	Pin - Clevis	9 14 2
237-7	Seal - O-Ring	8	69	1	283-76	Pin - Lynch	5 53 1
237-22	O-Ring	22	13	1	285-17	Pipe Plug	22 12 6
237-22	O-Ring	18	14	1	285-17	Plug - Pipe	32 9 2
237-22	O-Ring	11	20	3	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	21	58	1	302-2	Grease Fitting	7 39 1
237-30	O-Ring	11	13	3	302-5	Grease Fitting	34 34 2
237-30	O-Ring	24	30	2	302-5	Fitting	18 19 3
237-30	O-Ring	21	59	1	302-5	Fitting - Grease	9 44 2
237-30	Seal - O-Ring	7	4	1	302-5	Grease Fitting	34 13 1
237-30	Seal - O-Ring	6	13	1	302-10	Fitting - Grease	7 10 1
237-42	O-Ring	27	2	2	302-10	Fitting - Grease	29 47 1
237-42	O-Ring	24	31	2	302-11	Fitting	18 15 1
237-42	O-Ring	21	57	2	302-33	Grease Fitting	34 28 2
237-78	O-Ring	18	12	1	302-55	Fitting - Grease	25 1 2
237-78	O-Ring	24	32	2	302-55	Grease Fitting	26 1 2
237-80	O-Ring	20	30	1	302-58	Fitting - Grease	8 61 1
237-80	O-Ring	22	33	1	304-46	Draincock	5 22 1
237-81	O-Ring	20	32	3	304-73	Fitting - Straight Barb	24 23 1
237-86	O-Ring	22	7	4	304-75	Fitting - 90° Barb	24 20 1

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Part No.	Description	Pg. No.	Ref. No.	Qty.	Part No.	Description	Pg. No.	Ref. No.	Qty.
321-2	Screw - Cap, Hex. Hd.	20	26	2	3231-22	Bolt - Carriage	29	14	2
321-4	Screw - Cap Hex. Hd.	8	72	1	3231-28	Bolt - Carriage	29	10	1
321-4	Screw - Cap, Hex Hd.	28	18	1	3234-1	Screw - Cap, Flange Hd.	5	18	2
321-4	Screw - Cap, Hex. Hd.	20	27	2	3234-5	Screw - Lock, Flange Hd.	28	26	1
321-6	Screw - Cap Hex Hd.	14	25	1	3234-6	Screw - Cap Flange Hd.	6	19	2
321-6	Screw - Cap, Hex Hd.	28	24	2	3234-11	Capscrew w/Locking Flange	1	23	5
321-6	Screw - Cap, Hex. Hd.	20	47	2	3234-11	Screw - Cap Flange Hd.	6	21	6
321-6	Screw - Cap Hex. Hd.	5	51	1	3234-11	Screw - Cap, Hex. Hd.	9	39	3
321-23	Screw - Cap, Hex. Hd.	24	14	5	3234-11	Screw - Flange Lock	29	36	4
321-39	Screw - Cap, Hex Hd.	28	28	2	3234-11	Screw - Flange Lock	31	39	4
321-39	Screw - Cap, Hex Hd.	5	45	2	3234-11	Screw - Lock, Flange Hd.	28	33	2
322-3	Screw - Cap, Hex Hd.	14	19	2	3234-12	Screw - Flange Hex. Hd.	1	7	4
322-3	Screw - Cap, Hex. Hd.	33	1	4	3234-14	Screw - Cap, Hex. Hd.	2	43	2
322-4	Screw - Cap, Hex. Hd.	22	37	4	3234-14	Screw - Flange, Hex Hd.	5	19	6
322-4	Screw - Cap, Hex. Hd.	11	43	1	3234-14	Screw - Self Tapping	18	47	2
322-5	Screw - Cap, Hex. Hd.	3	17	2	3234-17	Screw - Cap Flange Hd.	6	16	6
322-5	Screw - Cap, Hex. Hd.	2	33	1	3234-17	Screw - Cap, Hex. Hd.	11	8	2
322-6	Screw - Cap, Hex. Hd.	20	21	6	3234-18	Screw - Hex. Hd. Flange	30	56	1
322-8	Screw - Cap, Hex. Hd.	20	25	2	3234-25	Screw - Hex. Flange Hd.	2	48	4
322-9	Screw - Cap Hex. Hd.	8	65	2	3234-32	Screw - Hex Hd. Flange	18	3	6
322-12	Screw - Cap, Hex Hd.	28	1	4	3241-5	Square Hd. Set Screw	20	16	2
322-17	Screw - Cap, Hex. Hd.	20	8	1	3245-1	Screw - Set	7	46	2
323-3	Screw - Cap Hex. Hd.	6	23	1	3245-1	Screw - Set	30	52	2
323-6	Screw - Cap, Hex. Hd.	11	27	2	3246-3	Screw - Set	7	29	4
323-7	Screw - Cap, Hex. Hd.	20	39	2	3249-11	Screw - Round Hd. Mach.	20	1	2
323-13	Screw - Cap, Hex. Hd.	22	3	4	3250-29	Screw - Pan Hd.	29	22	1
323-13	Screw - Cap, Hex. Hd.	9	32	2	3253-3	Washer - Lock	14	2	2
323-14	Screw - Cap, Hex Hd.	5	30	3	3253-3	Washer - Lock	28	21	1
324-4	Capscrew	34	19	2	3253-4	Washer - Lock	28	2	4
324-11	Screw - Cap, Hex Hd.	31	22	2	3253-4	Washer - Lock	1	8	2
324-12	Capscrew	34	22	2	3253-6	Lockwasher	34	7	2
324-12	Screw - Cap Hex. Hd.	29	34	2	3253-12	Washer - Lock	28	17	1
328-25	Screw - Cap, Hex Hd.	18	8	2	3253-17	Washer - Lock	14	41	1
329-3	Screw - Cap, Hex. Hd.	32	16	2	3253-21	Washer - Lock	6	24	1
3210-7	Screw - Cap, Hex. Hd.	20	6	1	3253-21	Washer - Lock	9	29	4
3210-7	Screw - Cap, Hex. Hd.	15	19	8	3253-21	Washer - Lock	14	34	2
3217-5	Nut	28	22	1	3253-21	Washer - Lock	20	40	2
3217-6	Nut	1	10	2	3253-21	Washer - Lock	8	55	4
3217-6	Nut	33	11	2	3254-1	Washer - Lock	3	6	6
3217-6	Nut	3	19	2	3254-2	Washer - Lock Internal	2	50	1
3217-7	Nut - Hex	9	28	2	3254-2	Washer - Lock, Int. Tooth	3	18	6
3217-8	Full Nut	34	8	2	3254-7	Washer - Lock	7	15	1
3217-9	Nut	6	27	2	3254-9	Washer - Lock	20	49	2
3217-16	Nut	20	48	2	3255-5	Washer - Lock	3	20	1
3217-26	Nut - Hex.	3	21	1	3255-7	Washer - Lock	20	50	3
3217-29	Nut - Hex.	3	33	5	3255-8	Washer - Lock	15	2	8
3218-5	Nut - Jam	9	3	2	3255-24	Washer - Lock	3	32	5
3218-7	Nut - Jam	11	42	1	3256-2	Washer - Flat	28	3	4
3219-1	Nut	32	1	2	3256-3	Washer - Flat	20	23	4
3219-2	Nut	15	1	8	3256-3	Washer - Flat	11	28	4
3219-2	Nut	32	29	2	3256-5	Washer - Flat	6	26	2
3219-2	Nut - Hex	20	9	1	3256-6	Washer - Flat	7	20	1
3219-3	Nut	7	33	1	3256-6	Washer - Flat	20	53	1
3219-7	Nut - Hex.	7	16	1	3256-21	Washer - Flat	29	23	1
3219-14	Nut	3	5	6	3256-22	Washer - Flat	9	8	1
3219-14	Nut	14	42	1	3256-22	Washer - Flat	28	19	1
3219-14	Nut - Hex	28	10	3	3256-22	Washer - Flat	5	48	1
3220-3	Nut - Jam	9	27	1	3256-25	Flat Washer	34	6	1
3220-3	Nut - Jam	18	42	8	3256-26	Washer - Flat	9	40	1
3220-5	Nut - Jam	9	46	1	3256-28	Washer - Flat	7	14	4
3220-5	Nut - Jam R.H. Thread	18	40	2	3256-28	Washer - Flat	18	35	2
3220-6	Nut	12	27	1	3256-41	Washer - Flat	7	36	3
3220-12	Nut - Jam L.H. Thread	18	*	2	3256-46	Washer - Flat	11	26	2
3229-1	Bolt - Carriage	2	36	5	3256-56	Washer - Flat	28	25	1
3230-1	Bolt - Carriage	10	52	2	3257-5	Key - Woodruff	7	11	3
3230-2	Bolt - Carriage	14	14	3	3257-32	Woodruff Key	20	15	1
3231-21	Bolt - Carriage	9	31	2	3257-32	Woodruff Key	22	21	1

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Part No.	Description	Pg. Ref.			Part No.	Description	Pg. Ref.		
		No.	No.	Qty.			No.	No.	Qty.
3257-33	Key - Woodruff	29	43	1	32121-9	Pin - Roll	7	49	1
3258-19	Round Hd. Machine Screw	33	4	2	32121-15	Roll Pin	16	30	1
3269-10	Washer	5	46	2	32121-16	Pin - Roll	9	24	1
3269-13	Rivet	5	12	2	32121-24	Roll Pin	21	55	1
3272-5	Pin - Cotter	9	7	3	32121-34	Pin - Roll	7	45	2
3272-6	Cotter Pin	24	8	1	32121-51	Pin - Hub To Shaft	32	44	1
3272-6	Pin - Cotter	9	21	6	32121-73	Pin Slotted Spring	24	9	1
3272-10	Cotter Pin	7	8	1	32121-84	Roll Pin	34	25	2
3272-10	Cotter Pin	34	38	3	32121-91	Coil Spring Pin	22	49	3
3272-10	Cotter Pin	21	54	1	32128-13	Nut - Lock, Flange	2	37	5
3272-11	Cotter Pin	34	2	2	32128-17	Nut - Lock, Flange	3	29	5
3272-11	Pin - Cotter	7	28	1	32128-20	Nut - Flange	14	20	1
3272-13	Pin - Cotter	18	33	2	32128-20	Nut - Flange	14	33	2
3272-22	Pin - Cotter	7	17	2	32128-20	Nut - Flange	11	41	1
3272-24	Cotter Pin	34	10	1	32128-20	Nut - Flange Head	5	26	6
3272-33	Cotter Pin	34	17	1	32128-20	Nut - Lock, Flange	2	35	1
3274-47	Screw - Flat Hd. Socket	9	33	1	32128-20	Nut - Lock, Flange Hd.	33	13	4
3290-134	Screw Machine Hex. Hd.	3	25	4	32128-21	Nut - Flange Head	5	25	3
3290-144	Screw - Machine	1	15	6	32128-21	Nut - Lock, Flange	1	6	10
3290-224	Washer - Pyramidal	30	55	1	32128-23	Nut - Lock, Flange	18	2	4
3290-271	Rivet	5	10	4	32128-23	Nut - Lock, Flange	29	44	2
3240-357	Nut - Lock, Flange	28	15	2	32128-25	Nut - Flange Lock	10	53	2
3290-357	Nut - Lock, Flange	29	2	12	32128-33	Nut - Lock, Flange	28	8	4
3290-357	Nut - Lock, Flange	31	14	5	32128-33	Nut - Lock, Flange	5	39	2
3290-357	Nut - Lock, Flange	6	22	6	32128-37	Nut - Lock, Flange	31	19	2
3290-357	Nut - Lock, Flange	1	25	5	32128-37	Nut - Lock, Flange	29	45	2
3290-360	Screw Machine Hex. Hd.	3	26	1	32128-42	Nut - Flange	34	27	4
3290-378	Cable Tie	1	21	2	32128-45	Nut - Lock	18	37	2
3290-379	Cable - Tie	30	58	3	32136-2	Nut	34	3	2
3290-379	Cable Tie	3	24	1	32136-5	Nut - Slotted	18	29	2
3290-379	Tie - Cable	11	16	3	32144-10	Screw - Hex. Self-Tapping	5	1	5
3290-379	Tie - Cable	5	31	4	32144-10	Screw - Hex. Thd. Form	11	6	6
3296-2	Nut - Lock	1	17	6	32144-10	Screw - Self Tapping	24	4	2
3296-4	Nut - Lock	11	30	4	32144-10	Screw - Self Tapping	6	4	2
3296-5	Nut - Lock	32	23	1	32144-10	Screw - Self Tapping	2	44	11
3296-6	Nut - Lock	7	34	1	32144-21	Screw	11	45	1
3296-16	Nut - Lock	5	47	1	32144-53	Screw - Thread Forming	14	7	5
3296-16	Nut - Lock	8	74	1	32144-67	Screw - Thread Forming	14	32	4
3296-20	Nut - Lock	28	12	1	32146-20	Nut - Lock	18	6	1
3296-20	Nut - Lock	14	15	2	32149-2	Nut	9	37	1
3296-28	Nut - Lock	7	27	1	32151-36	Ring - Retaining	18	16	3
3296-29	Nut - Lock	20	4	1	32151-46	Retaining Ring	22	27	2
3296-29	Nut - Lock	11	36	2	32152-1	Nut - Lock	20	19	8
3296-29	Nut - Lock	8	64	2	32153-2	Nut - Hex.	11	11	2
3296-42	Nut - Lock	20	10	6	32153-2	Nut - Lock	9	30	2
3296-42	Nut - Lock	24	10	5	32153-2	Nut - Lock	30	57	1
32103-2	Nut - Wing	1	13	2	340-54	Fitting - 45°	18	13	1
32103-2	Nut - Wing	5	41	2	340-70	Nut - Lock, Bulkhead	5	28	2
32104-6	Screw - Hex. Hd. Tapping	8	56	4	340-71	Union - Bulkhead	5	27	2
32104-6	Screw - Self Tapping	14	35	2	340-77	Elbow	20	12	1
32104-96	Screw - Cap, Hex Hd.	14	3	1	340-97	Fitting - 90°	24	25	1
32104-116	Screw - Flange, Hex Hd.	5	16	4	340-99	Elbow	20	13	1
32107-11	Nut	33	2	2	340-99	Fitting - 90° Elbow	24	12	1
32120-8	Retaining Ring	22	1	1	340-110	Elbow - 90°	24	24	1
32120-11	Retaining Ring	22	47	1	340-112	Elbow 90°	24	18	1
32120-15	Retaining Ring	22	45	1	353-508	Plug - Drain	20	41	1
32120-22	Ring - Retaining	7	42	2	353-512	Plug	24	1	1
32120-22	Ring - Retaining Int.	29	50	1	353-536	Fitting - Tank Fuel	14	8	2
32120-69	Ring - Retaining Ext.	30	51	1	353-550	Plug - Hex. Hd.	22	19	2
32120-72	Ring - Retaining External	20	43	1	353-551	Hex. Hd. Plug	22	32	1
32121-6	Roll Pin	20	11	1	353-987	Elbow	20	35	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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