

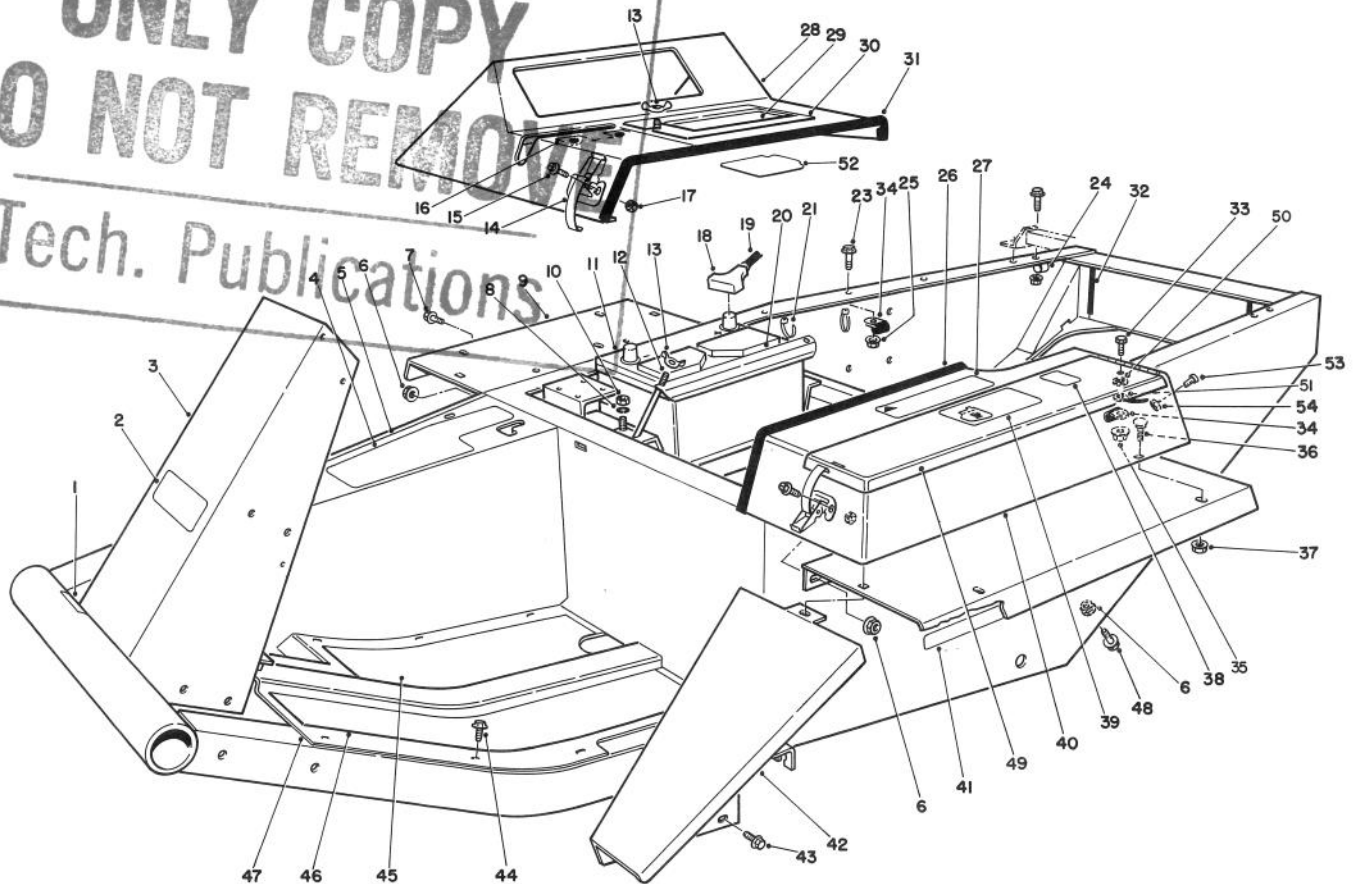


MODEL NO. 30789-50001

PARTS  
CATALOG
**GROUNDMASTER® 345  
TRACTION UNIT**

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Tech. Publications



T-0913C

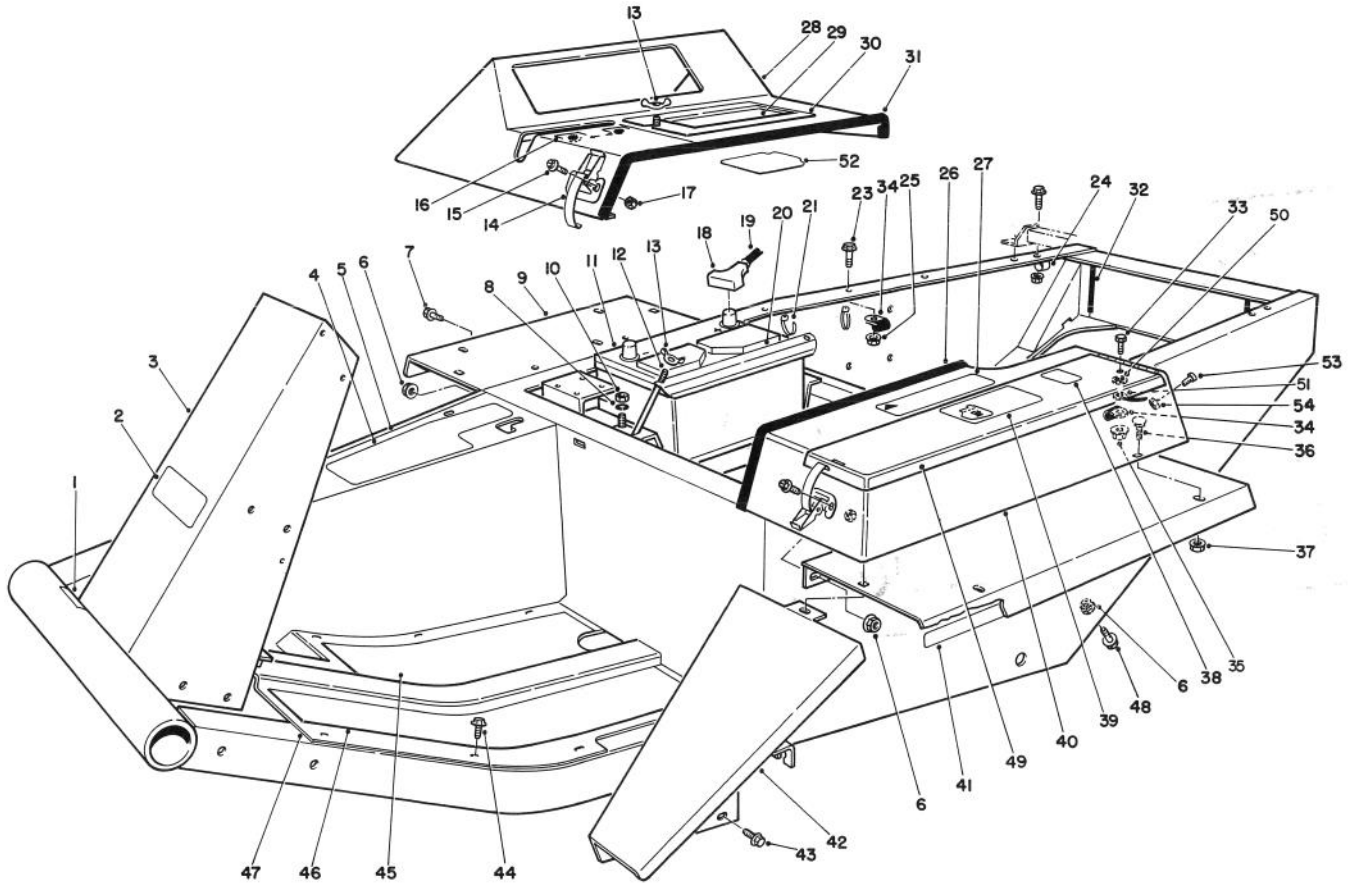
**MAIN FRAME ASSEMBLY**

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	55-7290	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

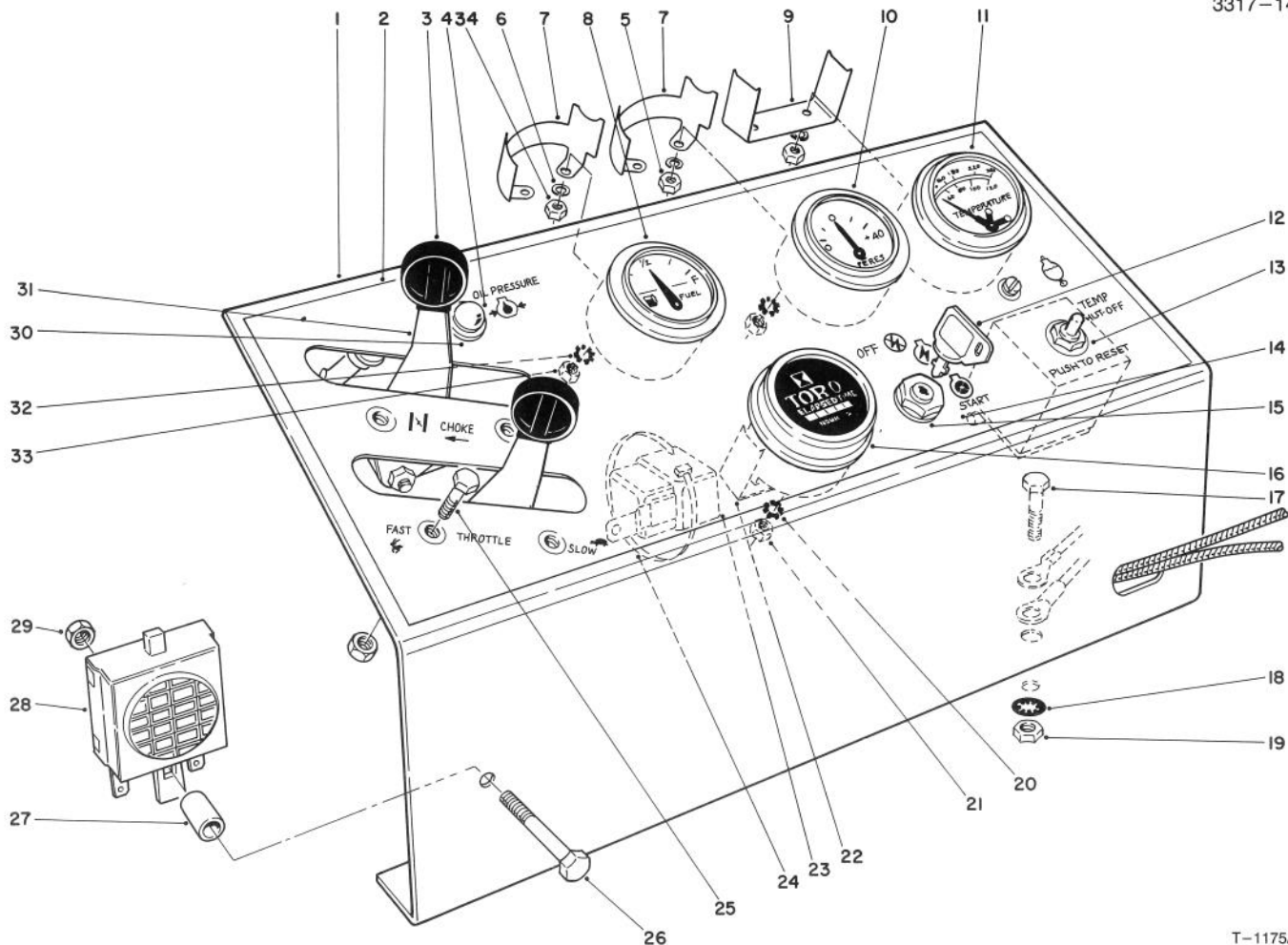


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## MAIN FRAME ASSEMBLY (Continued)

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	93-3183	Tool Box (Incl. Ref. # 27)	1
41	67-1720	Decal - Torque	2
42	68-8610	Fender - Extension	1
43	3234-14	Screw - Cap, Hex. Hd.	2

Ref. No.	Part No.	Description	No. Used
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
49	93-3184	Cover (Incl. Ref. # 39)	1
50	3254-2	Washer - Lock Internal	1
51	18-2770	Cable - Ground	1
52	92-7801	Shield - Cover, Battery	1
53	3250-29	Screw - Pan Hd.	3
54	3296-54	Nut - Lock	3



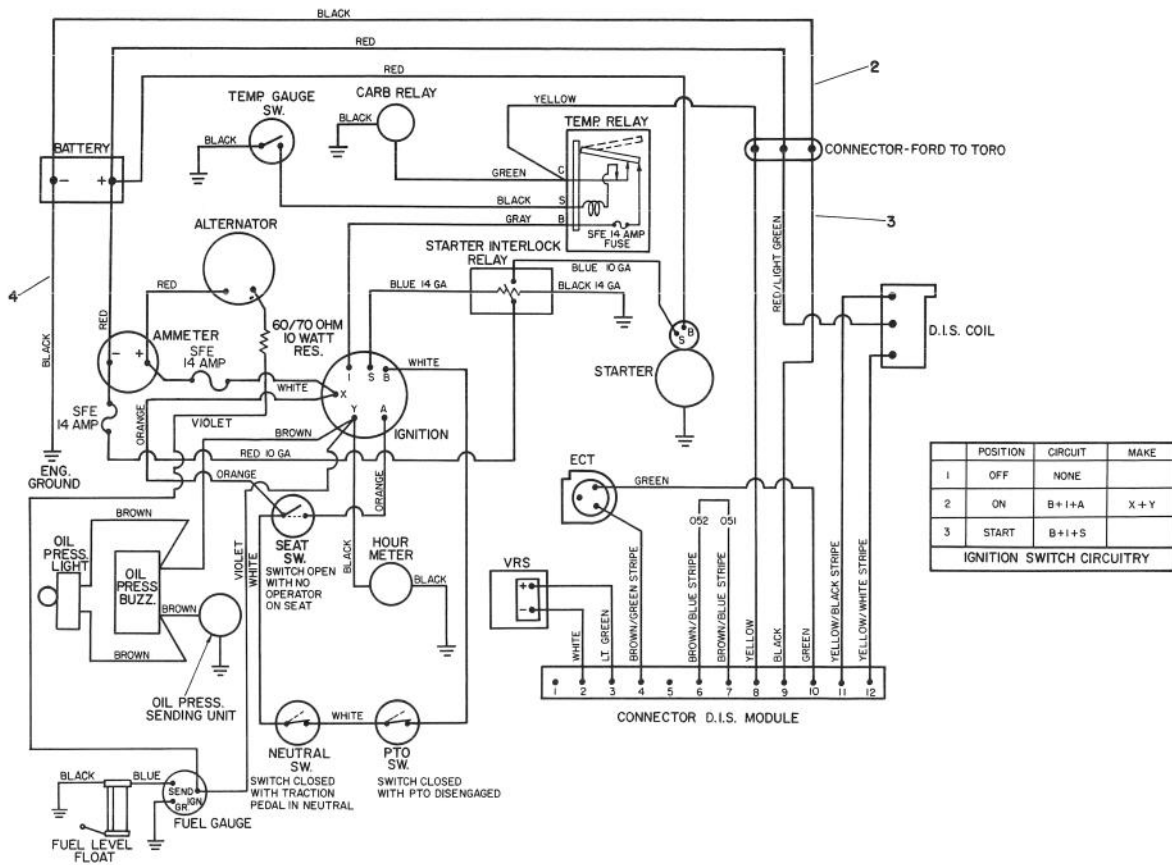
T-1175A

## INSTRUMENT PANEL ASSEMBLY

Ref. No.	Part No.	Description	No. Used
1	86-9370	Panel - Instrument	1
2	85-7470	Decal - Instrument Panel	1
3	233-35	Knob - Control	2
4	218-516	Lens	1
5	3219-14	Nut	4
6	3254-1	Washer - Lock	6
7	38-1670	Mounting Clamp	2
8	38-1650	Fuel Gauge (Incl. Ref. #5-7, 32 & 33)	1
9	218-539	Clamp	1
10	38-1660	Ammeter (Incl. Ref. #5-7, 32 & 33)	1
11	67-8550	Engine Temperature Gauge (Incl. Ref. #5, 6 & 9)	1
12	63-8360	Key	1
13	26-6740	Temperature Reset Relay	1
†14		Fuse Temp. Relay 14 amp SFE	1
15	27-2360	Switch	1
16	12-9990	Hour Meter (Incl. Ref. #20-22)	1

Ref. No.	Part No.	Description	No. Used
17	322-5	Screw - Cap, Hex. Hd.	2
18	3254-2	Washer - Lock, Int. Tooth	6
19	3217-6	Nut	2
20	3255-5	Washer - Lock	1
21	3217-26	Nut - Hex.	1
22	218-515	Mounting Bracket	1
23	63-7590	Relay	1
24	3290-379	Cable Tie	1
25	3290-134	Screw Machine Hex. Hd.	4
26	3290-360	Screw Machine Hex. Hd.	1
27	22-7810	Spacer	1
28	22-7820	Buzzer Assembly	1
29	3296-12	Nut - Lock	5
30	44-2210	Warning Light (Incl. Ref. #4)	1
31	67-8560	Throttle & Choke Control (Incl. Ref. #3)	2
32	3255-24	Washer - Lock	5
33	3217-29	Nut - Hex.	6
34	3217-27	Nut - Hex.	2

†Obtain Locally



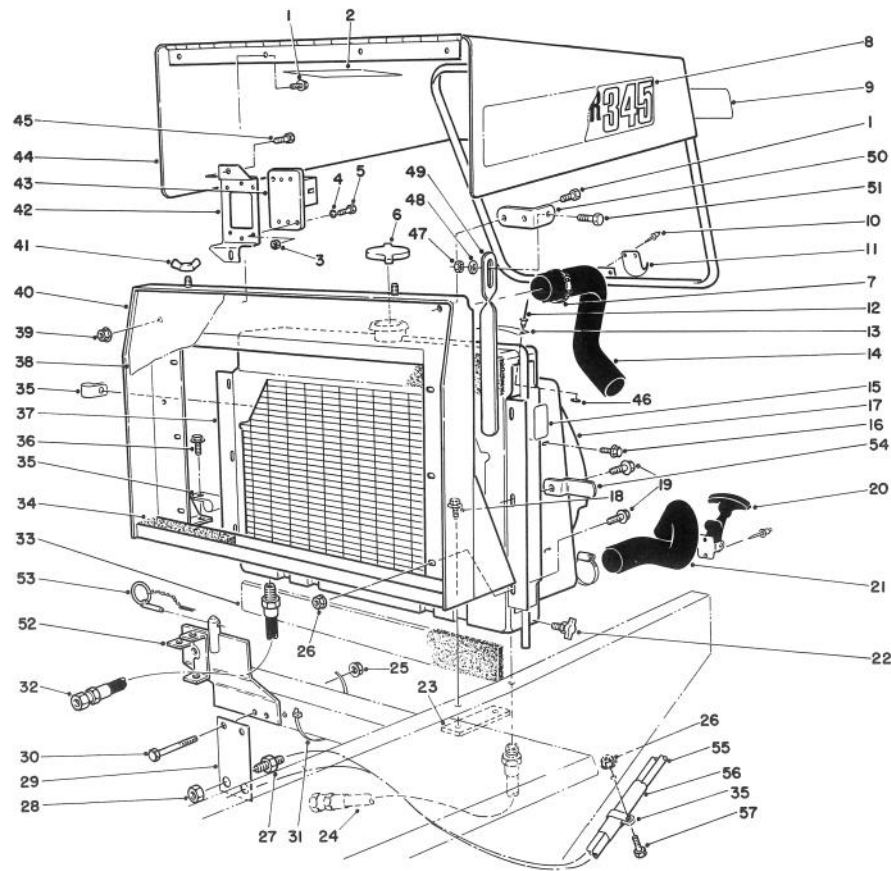
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## ELECTRICAL SCHEMATIC

Ref. No.	Part No.	Description	No. Used
2	93-0105	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.



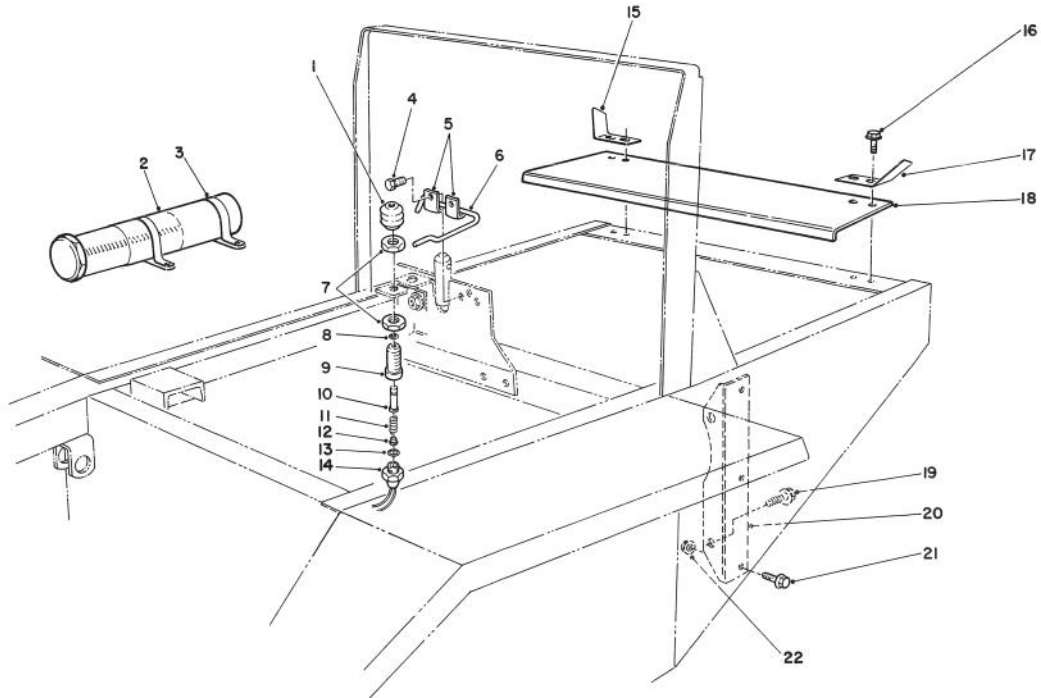
T-0916B

## RADIATOR & HOOD ASSEMBLY

Ref. No.	Part No.	Description	No. Used
1	32144-10	Screw - Hex. Self-Tapping	5
2	82-8970	Decal - Coolant Engine	1
3	48-7890	Nut - Metric	2
4	43-5930	Washer - Metric	2
5	48-7630	Screw - Metric	2
6	66-3240	Cap - Pressure Radiator	1
7	2412-3	Clamp - Hose	4
8	93-3189	Decal - Groundsmeister 345	2
9	66-6140	Decal - Toro	1
10	3290-271	Rivet	4
11	249-40	Keeper	1
12	3269-13	Rivet	2
13	76-8750	Decal - Warning	1
14	70-1630	Hose - Radiator Upper	1
15	77-3100	Decal - Warning	2
16	32104-116	Screw - Flange, Hex Hd.	4
17	67-8640	Shroud - Radiator	1
18	3234-1	Screw - Cap, Flange Hd.	2
19	3234-14	Screw - Flange, Hex Hd.	6
20	59-9740	Latch - Draw (Inc. Ref. #11)	1
21	67-8660	Hose - Radiator Lower	1
22	304-46	Draincock	1
23	38-4600	Bar - Frame L.H.	1
24	63-9010	Hose Assembly (Cooler to Pump)	1
25	32128-21	Nut - Flange Head	3
26	32128-20	Nut - Flange Head	7
27	340-71	Union - Bulkhead	2
28	340-70	Nut - Lock, Bulkhead	2

Ref. No.	Part No.	Description	No. Used
29	68-9160	Bracket	1
30	323-14	Screw - Cap, Hex Hd.	3
31	3290-379	Tie - Cable	4
32	63-8960	Hose Assembly	1
33	43-3320	Foam - Radiator	2
34	70-1790	Strip - Foam Sealing	1
35	2412-39	Clamp	3
36	11-0590	Screw - Hex Self-Tapping	2
37	67-8590	Radiator Assembly	1
38	67-9030	Grille - Radiator	1
39	32128-33	Nut - Lock, Flange	2
40	86-9400	Support - Radiator	1
41	32103-2	Nut - Wing	2
42	70-1660	Bracket - E.S.C.	1
†43		Module - E.S.C.	1
44	14-8459	Hood	1
45	321-39	Screw - Cap, Hex Hd.	2
46	3269-10	Washer	2
47	3296-16	Nut - Lock	1
48	3256-22	Washer - Flat	1
49	84-5380	Strap - Hood Prop	1
50	84-5330	Bracket - Hood Prop	1
51	321-6	Screw - Cap Hex. Hd.	1
52	86-9410	Support - Seat	1
53	283-76	Pin - Lynch	1
54	86-7060	Bracket - Hood Hold Down	1
55	68-9710	Hose - Steering Cylinder	2
56	56-7980	Sleeve - Protective	1
57	322-3	Screw - Cap, Hex Hd.	1

†Obtain from your local Ford Power Products Dealer.



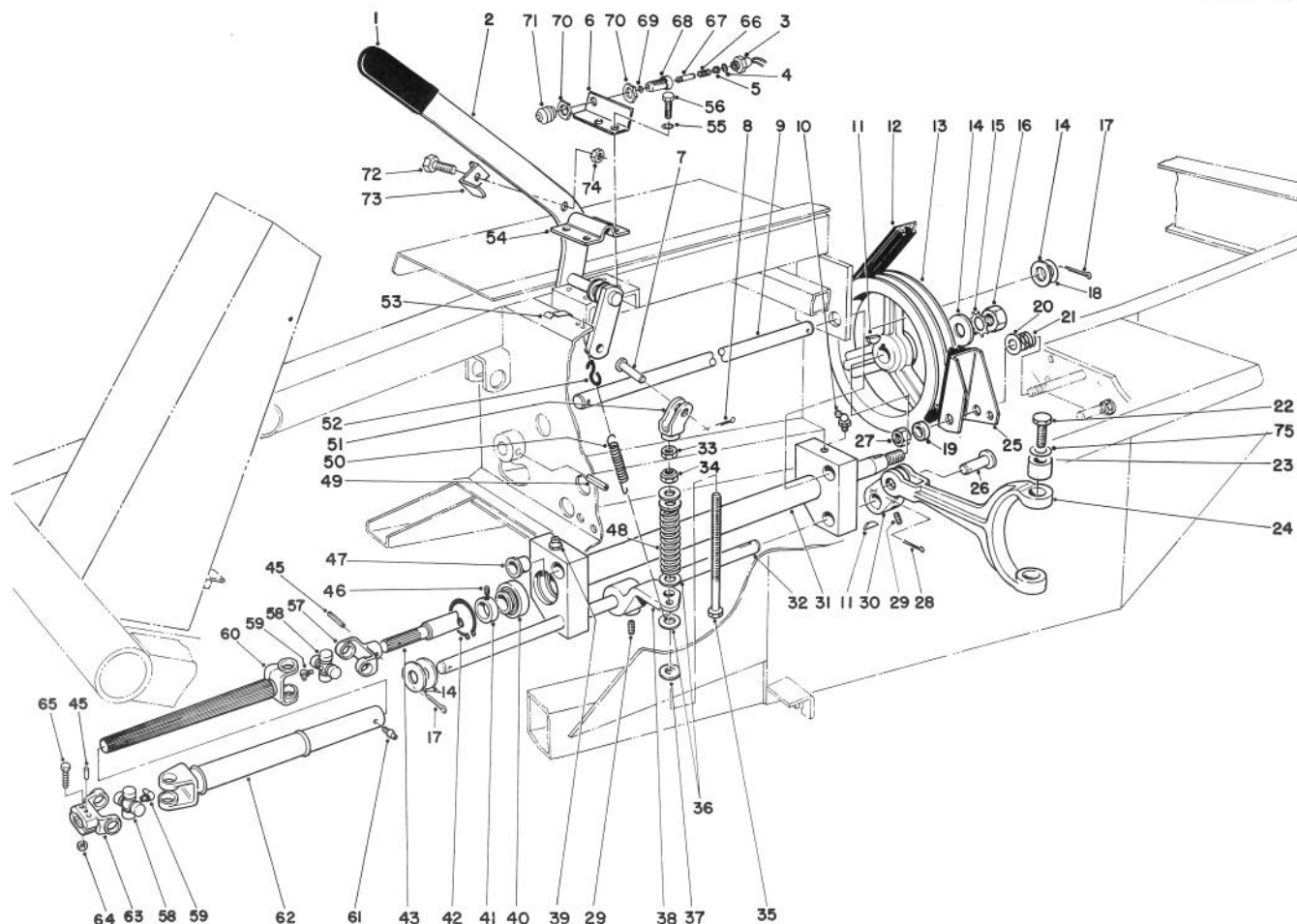
T-0917A

## 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

Ref. No.	Part No.	Description	No. Used
14	72-4320	Switch - Ball	1
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
*	43-9071	Assembly - Switch (Incl. Ref.#1, 7-14, Qty. 1 of Item #7)	1

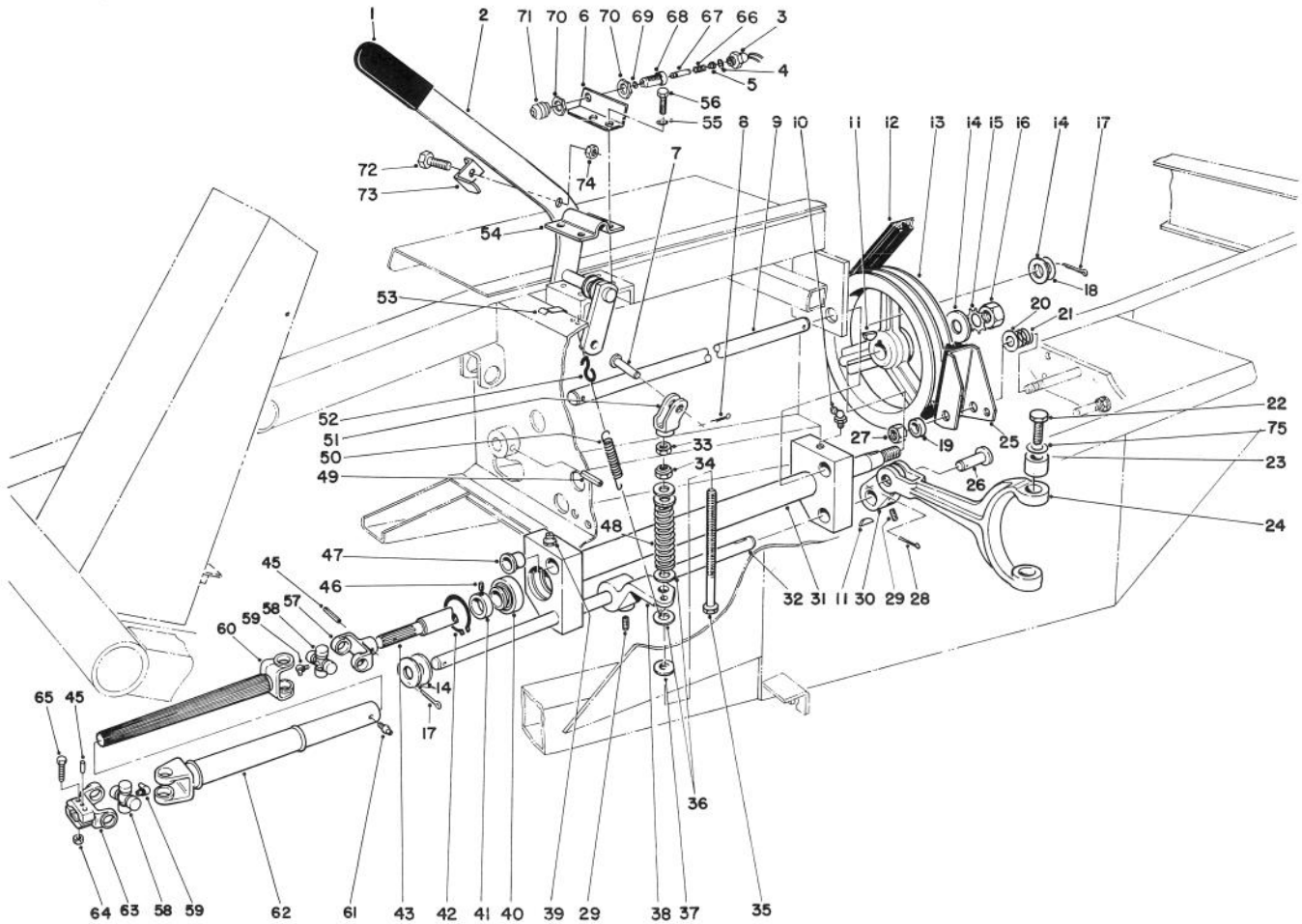
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T-0413A

## 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	92-4058	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	4
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	92-5727	Screw - Cap, Hex. Hd.	2	49	32121-9	Pin - Roll	1
23	92-5723	Bushing - P.T.O. Fork	2	50	21-1830	Spring - Tension	1
24	92-4060	Fork P.T.O.	1	51	43-5630	Yoke - P.T.O.	1
25	27-7370	Brake Assembly P.T.O.	1				
26	93-3769	Clevis Pin	1				



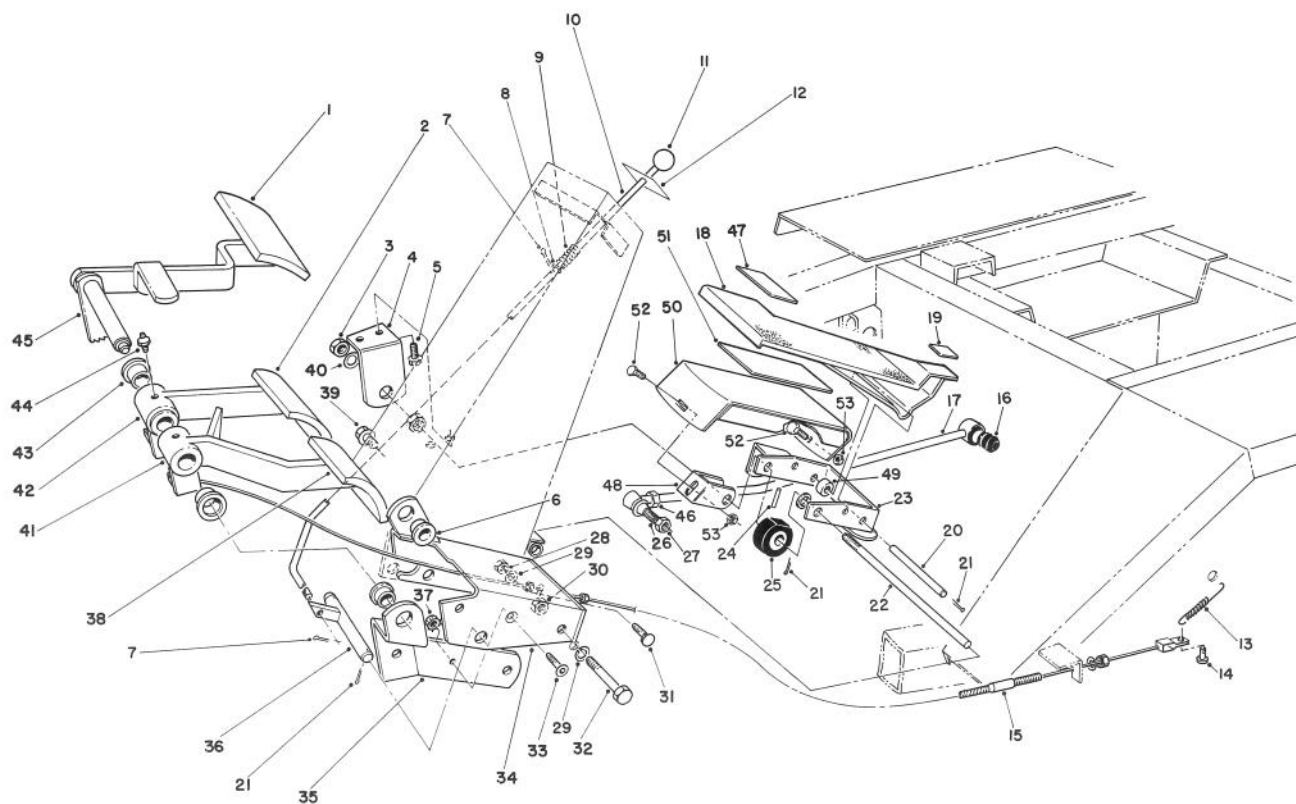
T-0413A

## 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
66	43-8600	Spring - Compression	1

Ref. No.	Part No.	Description	No. Used
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
75	75-9890	Washer - Shim	A/R
*	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

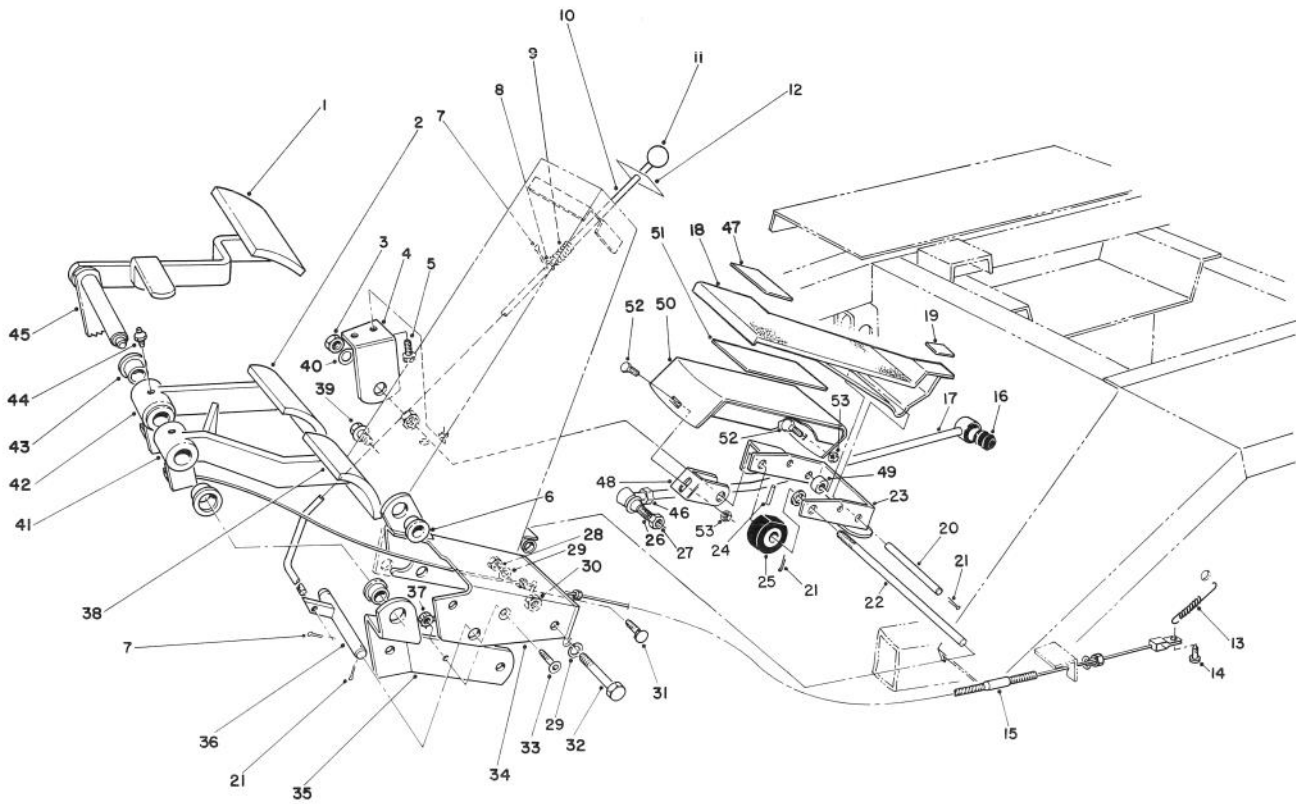


T-0415A

## 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



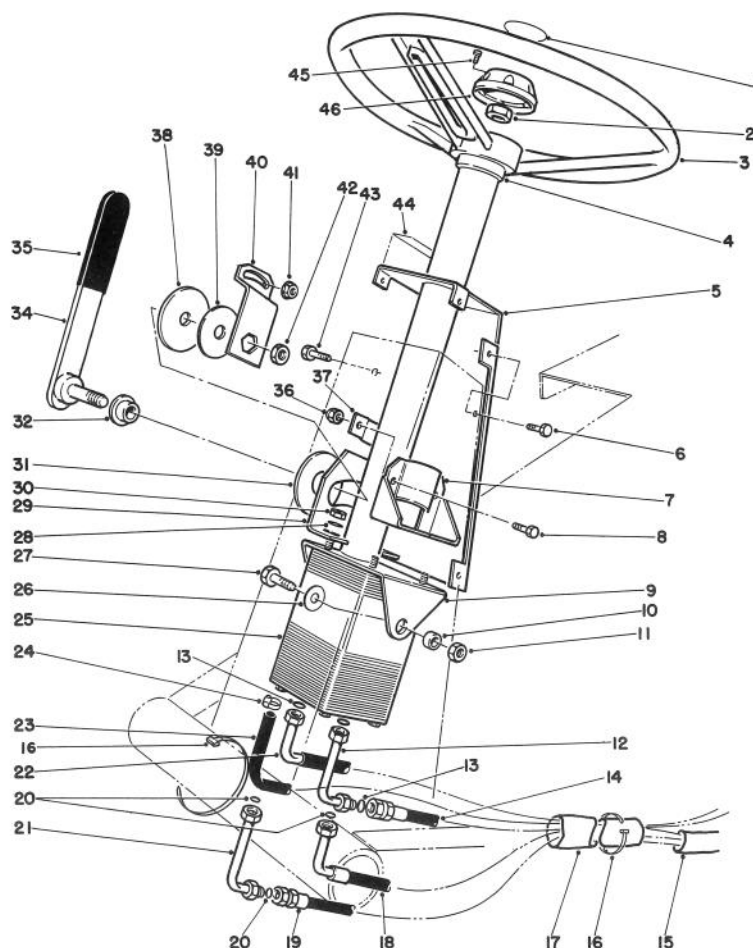
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## BRAKE PEDAL ASSEMBLY (Continued)

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

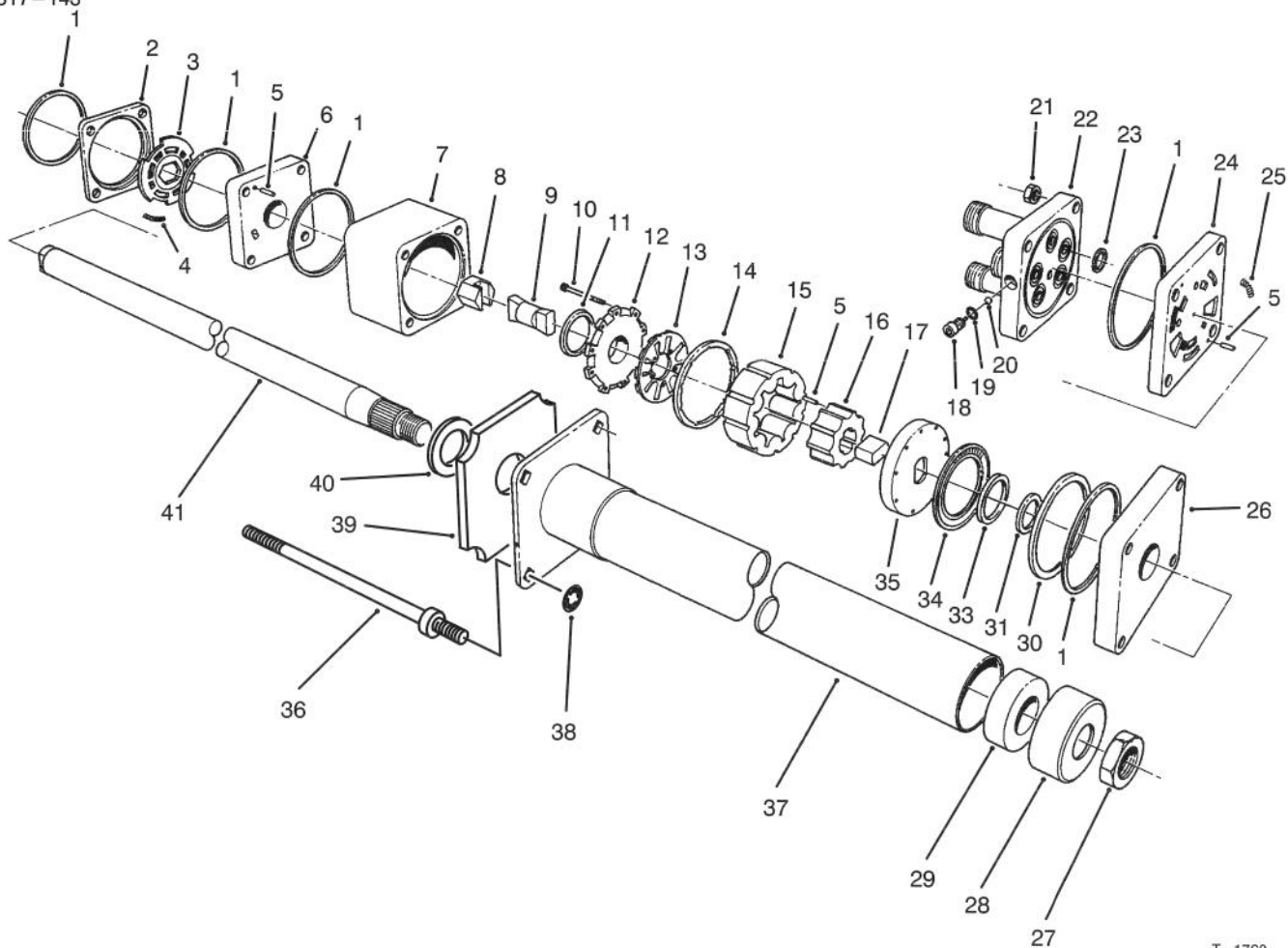


T-1187A

## POWER STEERING ASSEMBLY

Ref. No.	Part No.	Description	No. Used
1	68-5370	Decal - Toro	1
2	66-9760	Nut - Hex.	1
3	75-0560	Steering Wheel Assembly (Incl. Ref. #45 & 46)	1
4	21-9260	Cover - Dust	1
5	82-8660	Cover - Tower	1
6	32144-10	Screw - Hex. Thd. Form	6
7	67-8690	Support - Column	1
8	3234-17	Screw - Cap, Hex. Hd.	2
9	77-3120	Bracket - Mount, Column	1
10	80-2960	Spacer - Tower	2
11	32153-2	Nut - Hex.	2
12	82-8760	Elbow	1
13	237-30	O-Ring	3
14	63-8970	Hose - Trans. to Steering	1
15	70-1390	Sleeve - Protective	1
16	3290-379	Tie - Cable	3
17	70-1380	Sleeve - Protective	1
18	68-9730	Hose - Steering to Cylinder	1
19	68-9720	Hose - Cylinder to Steering	1
20	237-22	O-Ring	3
21	82-8770	Elbow	1
22	63-8980	Hose - Aux. to Valve	1

Ref. No.	Part No.	Description	No. Used
23	63-8990	Hose	1
24	2412-36	Clamp	2
25	92-7308	Valve - Steering, Power	1
26	3256-46	Washer - Flat	2
27	323-6	Screw - Cap, Hex. Hd.	2
28	3256-3	Washer - Flat	4
29	80-2940	Plate - Pivot	1
30	3296-20	Nut - Lock	4
31	31-0390	Disc - Friction	1
32	80-2980	Boss - Pin	1
34	93-1353	Lever - Steering, Tilt	1
35	21-1880	Grip - Handle	1
36	3296-29	Nut - Lock	2
37	82-8650	Clamp - Half	1
38	82-9010	Disc - Friction	1
39	80-2930	Washer	1
40	80-2880	Bracket - Steering, Tilt	1
41	32128-20	Nut - Flange	1
42	3218-7	Nut - Jam	1
43	322-4	Screw - Cap, Hex. Hd.	1
44	82-8940	Decal - Steering, Tilt	1
45	32144-21	Screw	1
46	68-5140	Cap - Wheel, Steering	1



T-1760

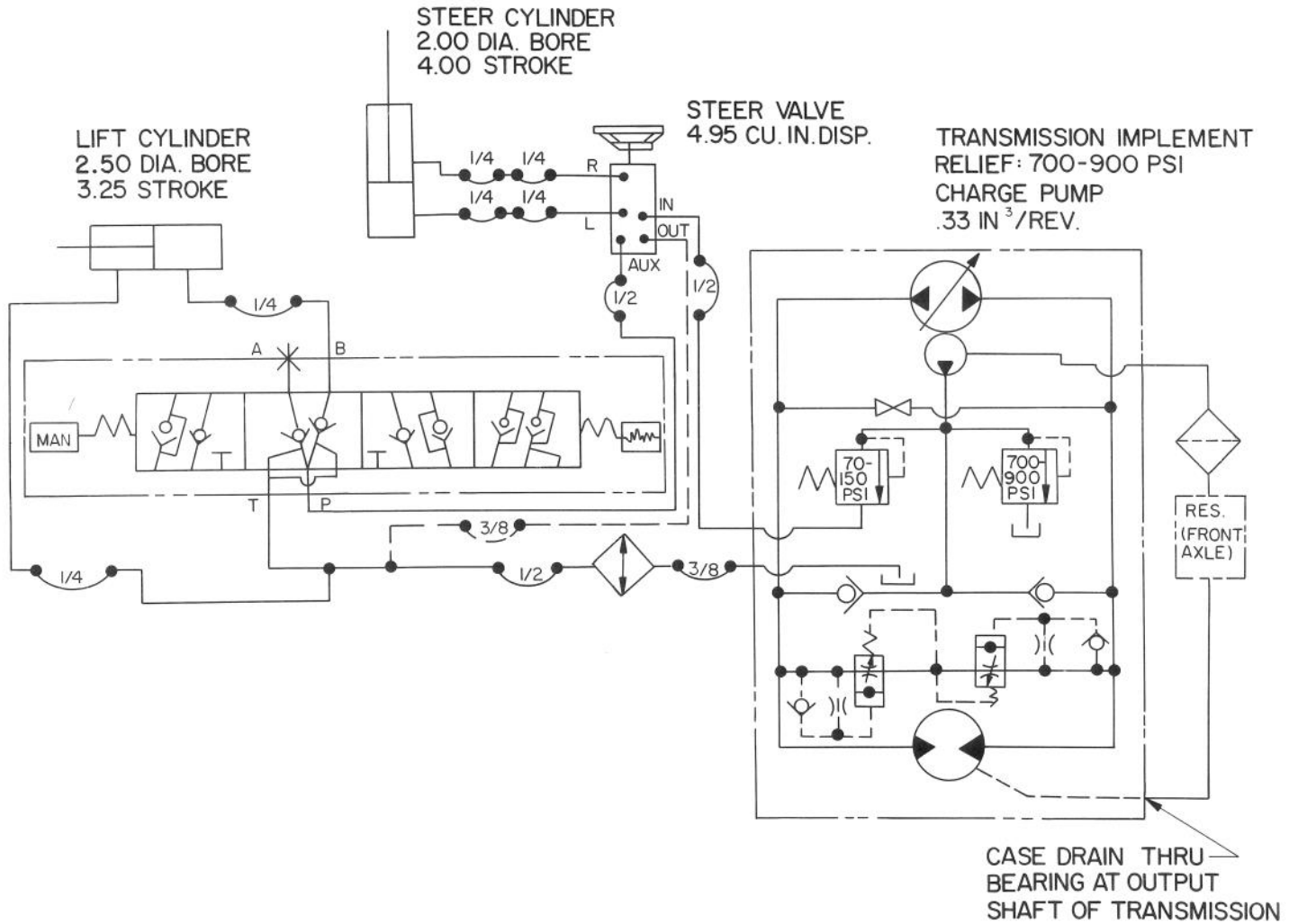
## POWER STEERING & VALVE ASSEMBLY NO.92-7308

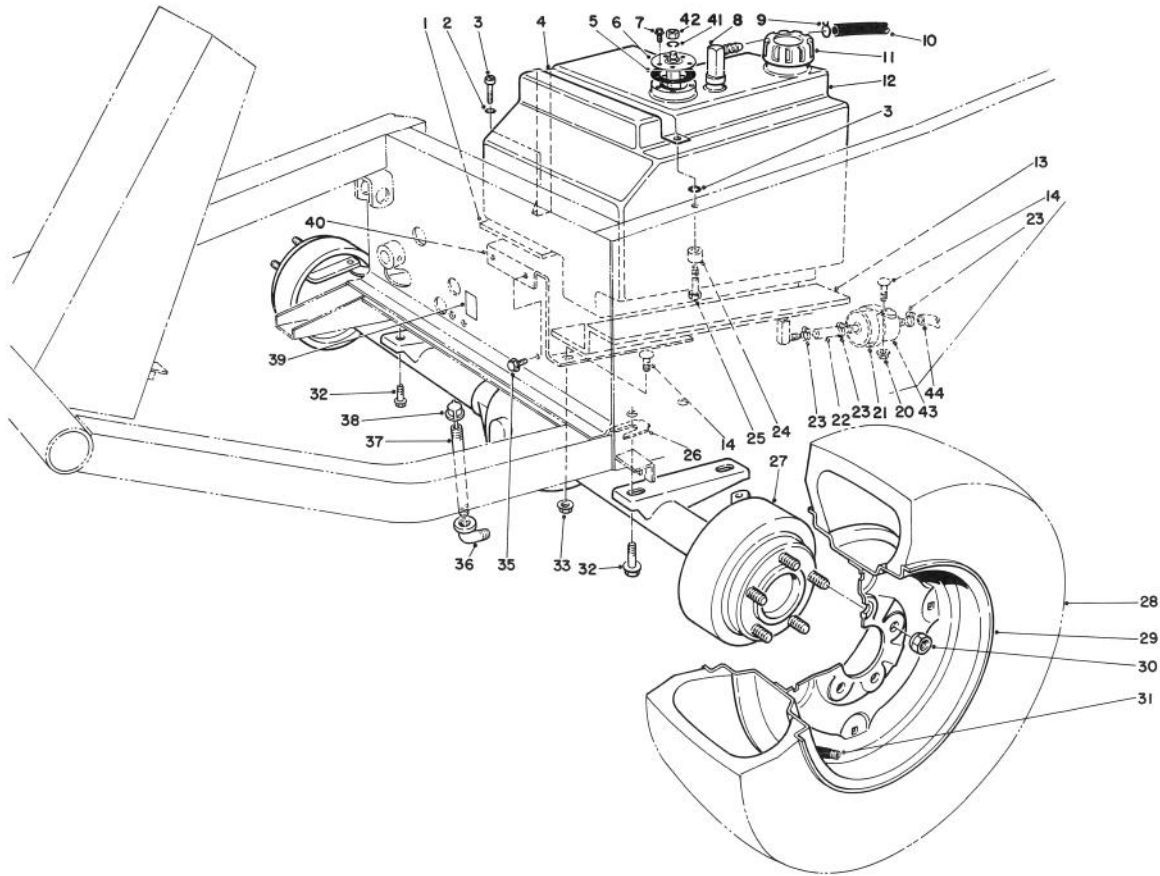
Ref. No.	Part No.	Description	No. Used
1		Ring - Seal	5
2		Ring - Valve	1
3		Plate - Valve	1
4		Spring	3
5		Pin - Alignment	9
6		Manifold - Isolation	1
7		Ring - Metering	1
8		Hex Drive Assy.	1
9		Link - Drive	1
10		Screw - Hex. Hd. Socket	11
11		Seal - Commutator	1
12		Cover - Commutator	1
13		Commutator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





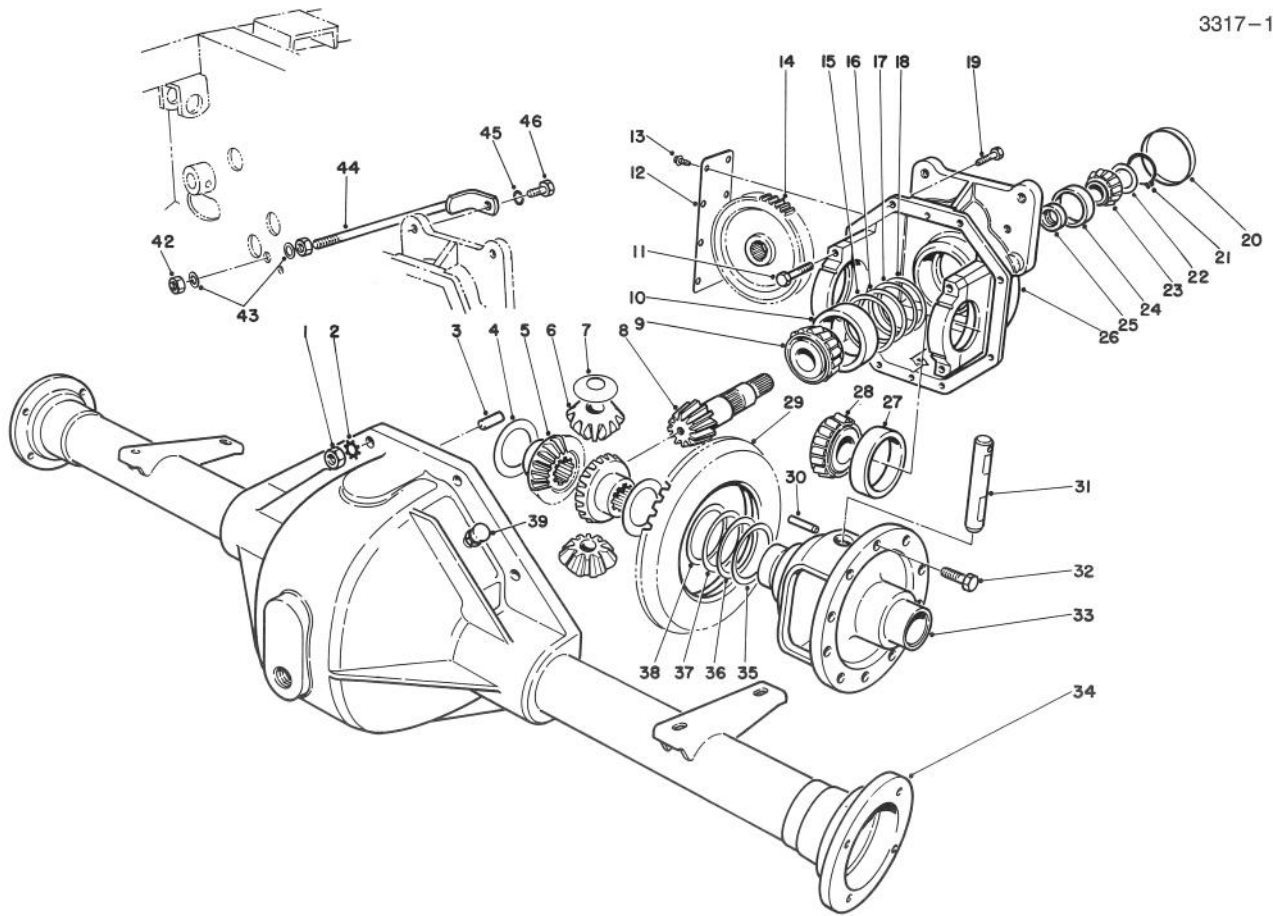
T-0918A

## 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
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
27	86-9600	Front Axle Assembly	1
28	231-101	Tire	2
*	231-95	Tire - 23 x 10.5 x 12	

Ref. No.	Part No.	Description	No. Used
		(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	3
34	3253-21	Washer - Lock	2
35	3234-11	Screw - Flange Head	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



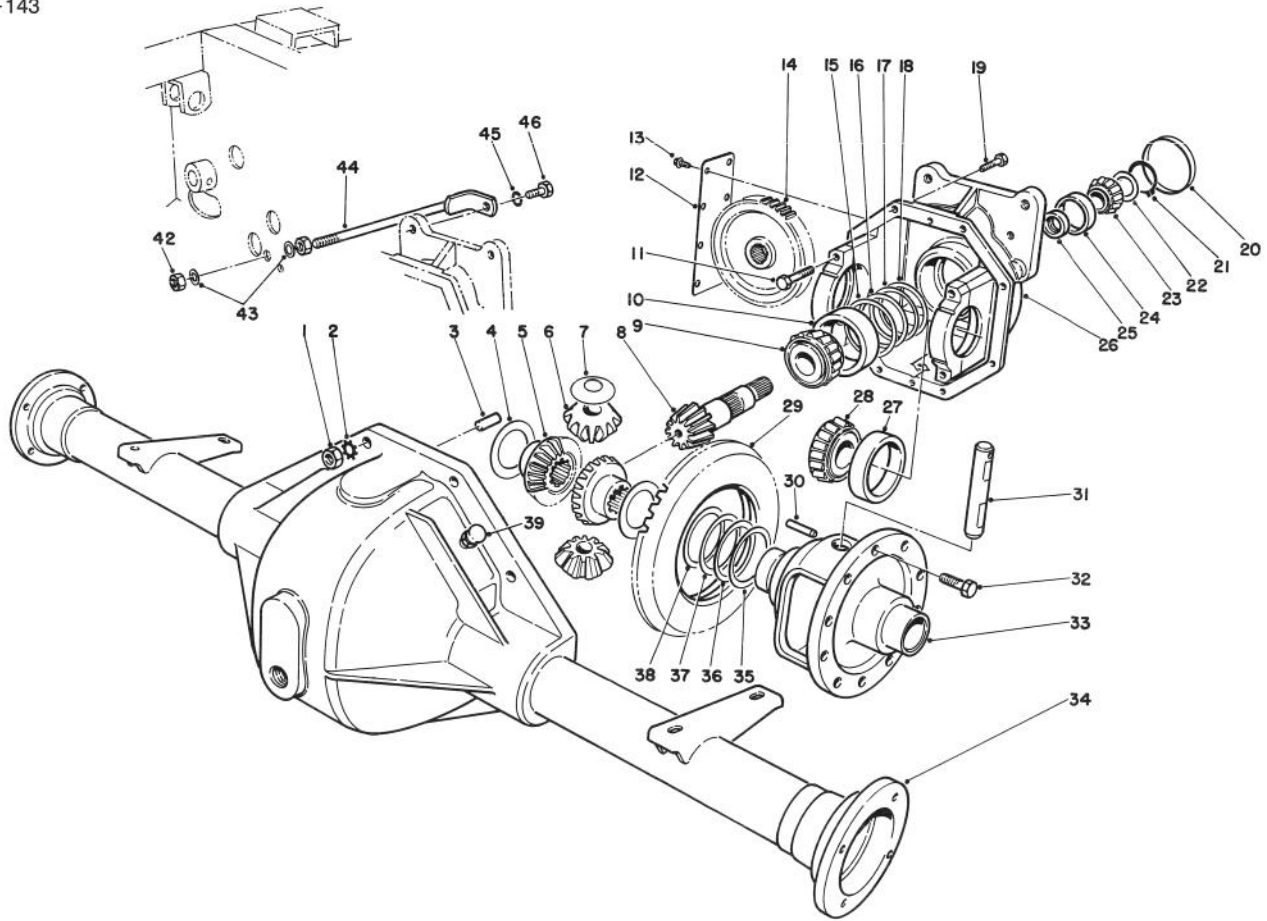
T-0919

## 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	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
*22	46-2212	Shim - Front Pinion Bearing	

\*Not Illustrated

Ref. No.	Part No.	Description	No. Used
		(.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



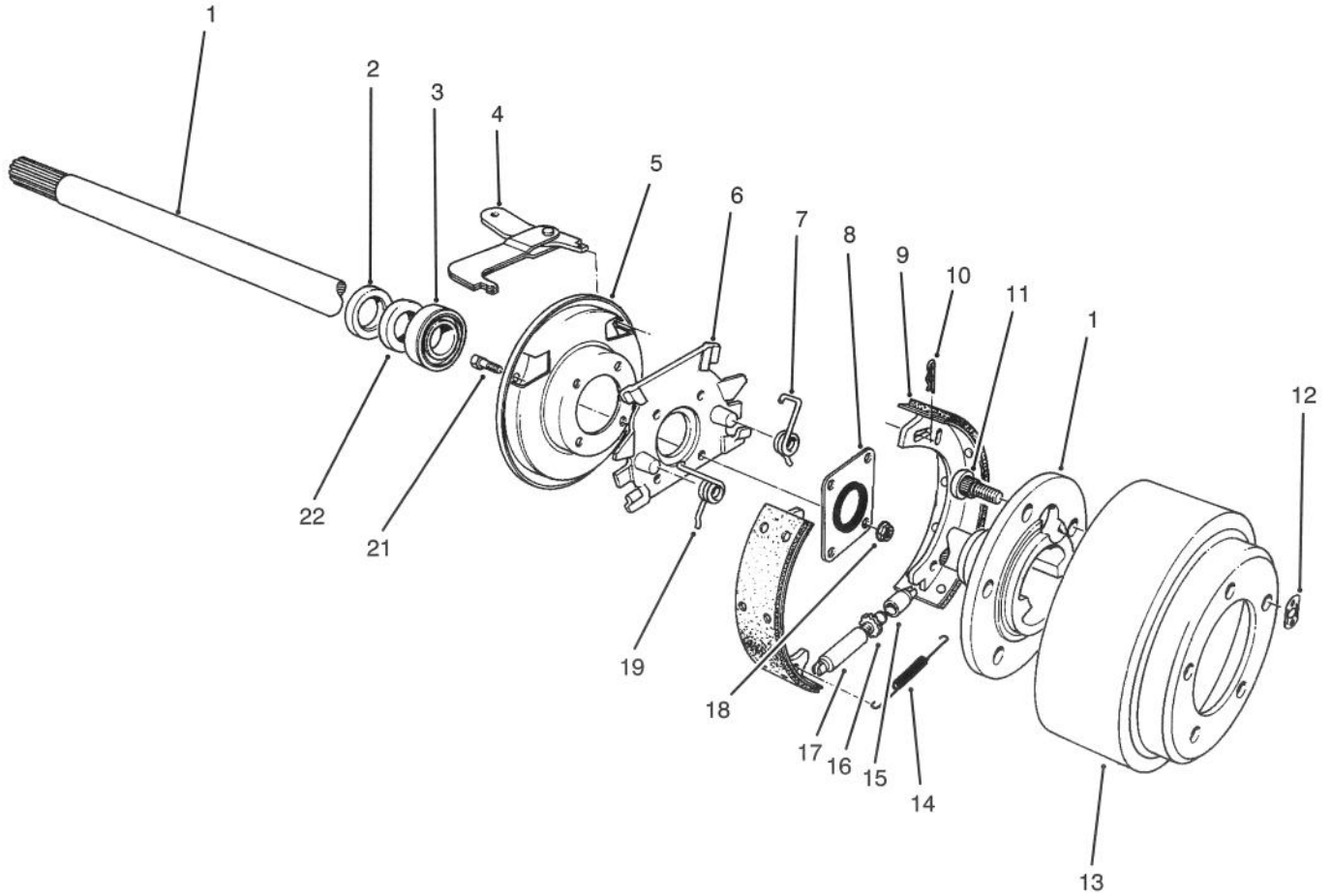
T-0919

## 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
23	254-91	Bearing Cone	1

Ref. No.	Part No.	Description	No. Used
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
42	3217-9	Nut	2
43	3256-5	Washer - Flat	2
44	24-9830	Support - Axle	1
45	3253-21	Washer - Lock	1
46	323-6	Screw - Cap Hex. Hd.	1

\*Not Illustrated



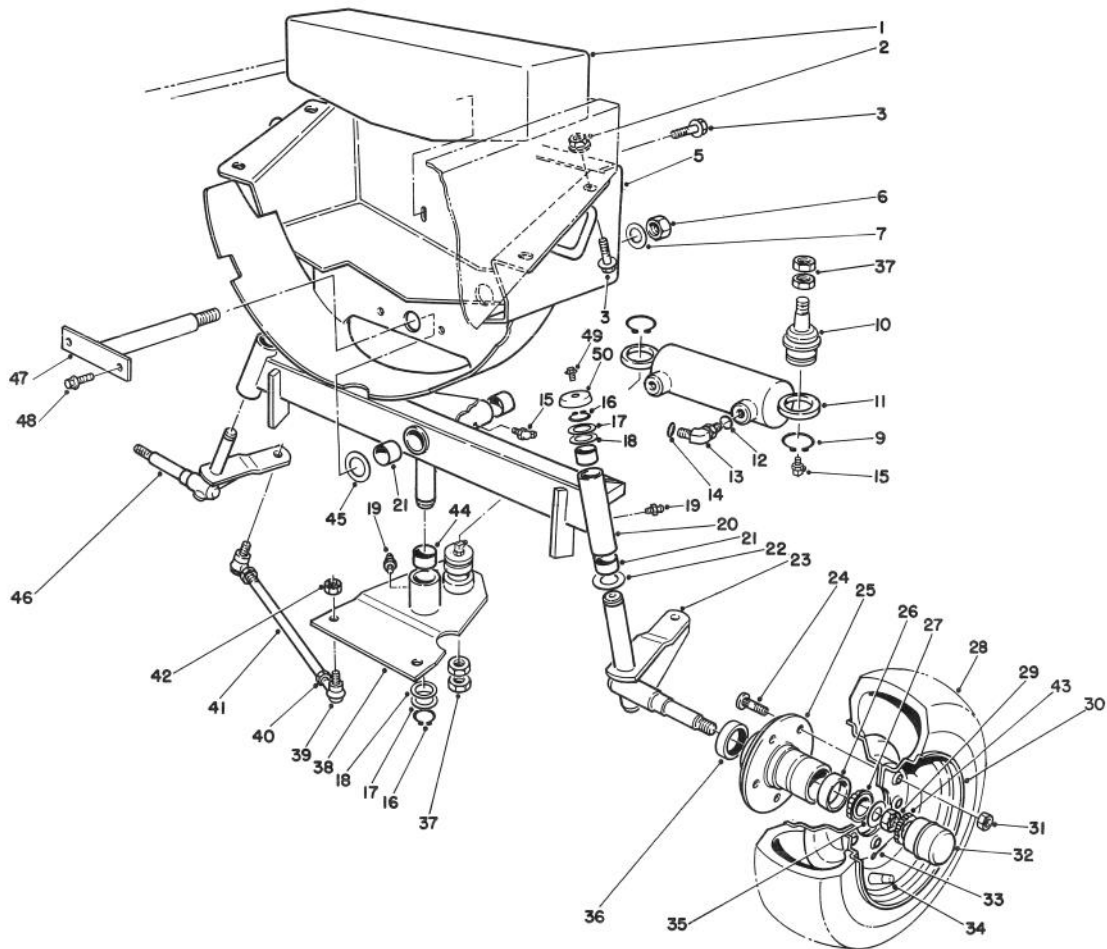
T-0421A

## BRAKE ASSEMBLY

Ref. No.	Part No.	Description	No. Used
1	28-0650	Flanged Axle Shaft	2
2	92-1774	Oil Seal	2
3	21-8180	Bearing	2
4	24-9180	Strut & Lever Parking Brake	2
5	21-9450	Dust Shield	2
6	43-6810	Torque - Spider	2
7	21-9430	Spring - Shoe Return R.H.	2
8	28-0670	Oil Seal	2
9	84-8600	Shoe & Lining Assembly (Set of 4)	1
10	21-9460	Retainer - Brake Lever	4
11	242-34	Axle Flange Stud	10
12	21-8360	Clip - Retaining	2

Ref. No.	Part No.	Description	No. Used
13	28-0680	Brake Drum	2
14	21-9440	Spring - Adjusting Screw	2
15	21-9390	Socket - Adjusting Screw	2
16	21-9370	Screw - Adjusting	2
17	21-9380	Nut - Pivot	2
18	43-6800	Nut - Lock	8
19	21-9420	Spring - Shoe Return L.H.	2
21	24-8840	Ring - Wheel Bearing	2
22	28-0660	Screw - Cap, Hex. Hd.	8
*	92-8775	Gasket Kit - Liquid	2

\*Not Illustrated



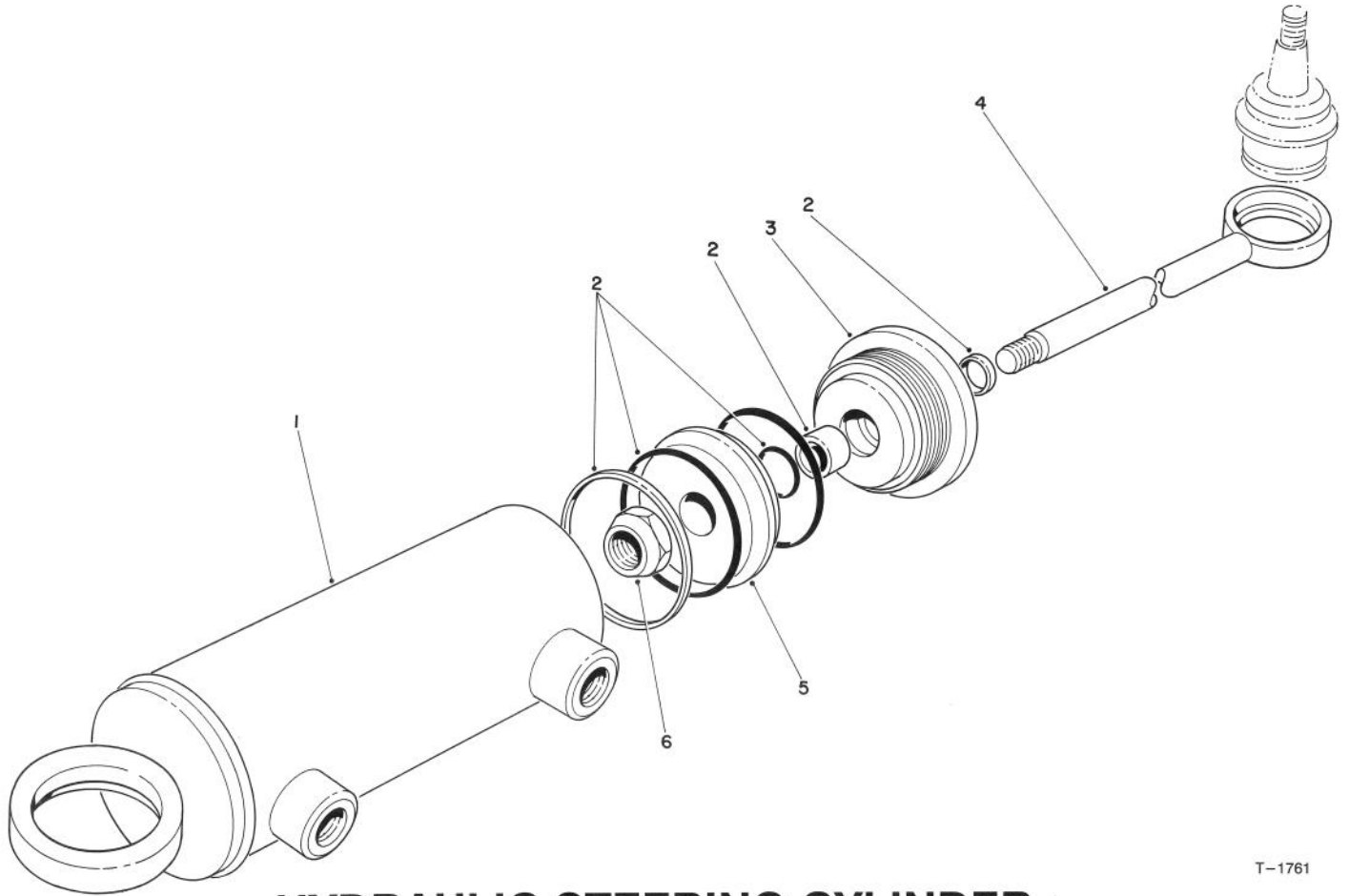
T-1759B

## 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	92-7841	Support - Axle Rear	1
6	32146-20	Nut - Lock	1
7	71-4540	Washer - Thrust	1
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	3
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	93-3198	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
28	231-105	Tire	2

Ref. No.	Part No.	Description	No. Used
29	3220-7	Nut - Jam	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	93-0309	Washer - Tab	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
43	93-0307	Retainer - Nut, Lock	2
44	256-242	Bushing	2
45	56-2460	Washer	A/R
46	93-3199	Spindle Assembly R.H.	1
47	92-7843	Pin - Axle Rear	1
48	32144-14	Screw - Self Tapping	2
49	3234-13	Screw	2
50	66-2990	Cup - Spindle	2

\*Not Illustrated

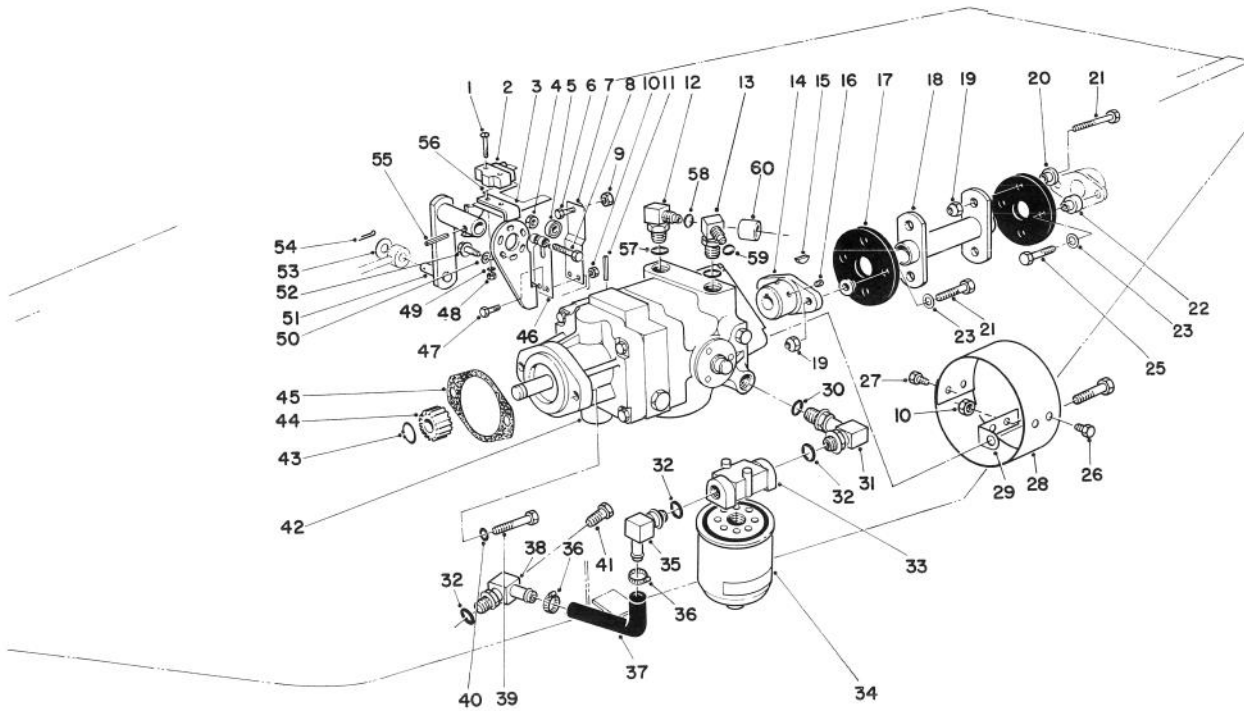


T-1761

## HYDRAULIC STEERING CYLINDER

Ref. No.	Part No.	Description	No. Used
1		Tube Assembly	1
2	92-6593	Seal Kit	1
3	92-6588	Gland	1
4		Piston Rod Assembly	1

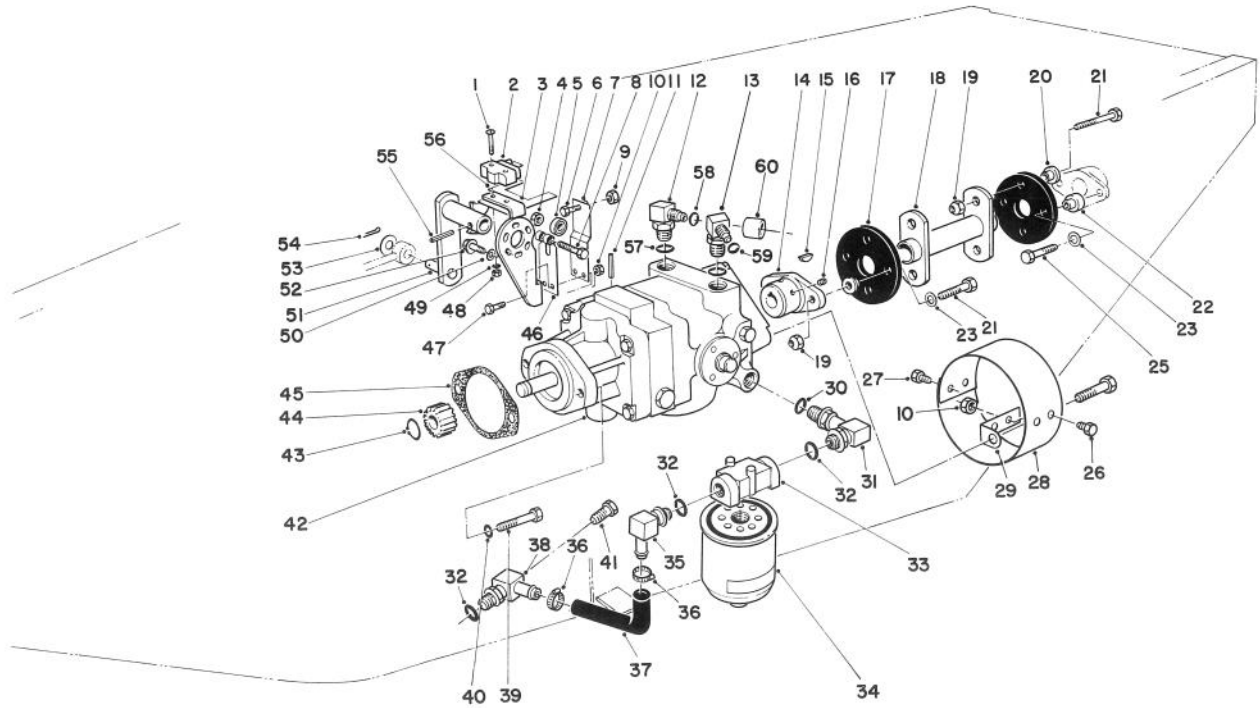
Ref. No.	Part No.	Description	No. Used
5	66-1940	Piston	1
6	66-1930	Nut - Lock	1
*	92-7828	Cylinder - Hydraulic (Incl. Ref. #1-6)	1



T-0424A

## HYDROSTATIC TRANSMISSION ASSEMBLY

Ref. No.	Part No.	Description	No. Used	Ref. No.	Part No.	Description	No. Used
1	3249-11	Screw - Round Hd. Mach.	2	28	54-9300	Cover	1
2	29-6163	Micro Switch	1	29	54-9290	Bracket	2
3	29-6120	Pump Plate	1	30	237-80	O-Ring	1
4	3296-29	Nut - Lock	1	31	68-8660	Elbow	1
5	251-259	Ball Bearing	1	32	237-81	O-Ring	3
6	3210-7	Screw - Cap, Hex. Hd.	1	33	68-8990	Head - Filter	1
7	29-6170	Extended Leaf Spring	1	34	23-9740	Oil Filter	1
8	322-17	Screw - Cap, Hex. Hd.	1	35	353-987	Elbow	1
9	3219-2	Nut - Hex	1	36	2412-34	Clamp - Hose	2
10	3296-42	Nut - Lock	6	37	68-9650	Hose - Axle	1
11	32121-6	Roll Pin	1	38	70-2620	Elbow - 90°	1
12	340-77	Elbow	1	39	323-7	Screw - Cap, Hex. Hd.	2
13	340-99	Elbow	1	40	3253-21	Washer - Lock	2
14	33-4380	Pump Hub	1	41	353-508	Plug - Drain	1
15	3257-32	Woodruff Key	1	42	92-8947	Transmission - Inline	1
16	3241-5	Square Hd. Set Screw	2	43	32120-72	Ring - Retaining External	1
17	44-2230	Rubber Coupling	2	44	86-7220	Gear - Transmission Output	1
18	46-6390	Drive Coupling	1	45	41-8760	Gasket - Transmission	1
19	32152-1	Nut - Lock	8	46	29-6150	Leaf Spring	1
20	27-6600	Spacer Rubber Coupling	6	47	321-6	Screw - Cap, Hex. Hd.	2
21	322-6	Screw - Cap, Hex. Hd.	6	48	3217-16	Nut	2
22	27-6590	Spacer Rubber Coupling	2	49	3254-9	Washer - Lock	2
23	3256-3	Washer - Flat	4	50	3255-7	Washer - Lock	3
25	322-8	Screw - Cap, Hex. Hd.	2	51	28-9570	Pump Lever	1
26	321-2	Screw - Cap, Hex. Hd.	2	52	11-9760	Self Tapping Screw	3
27	321-4	Screw - Cap, Hex. Hd.	2	53	3256-6	Washer - Flat	1

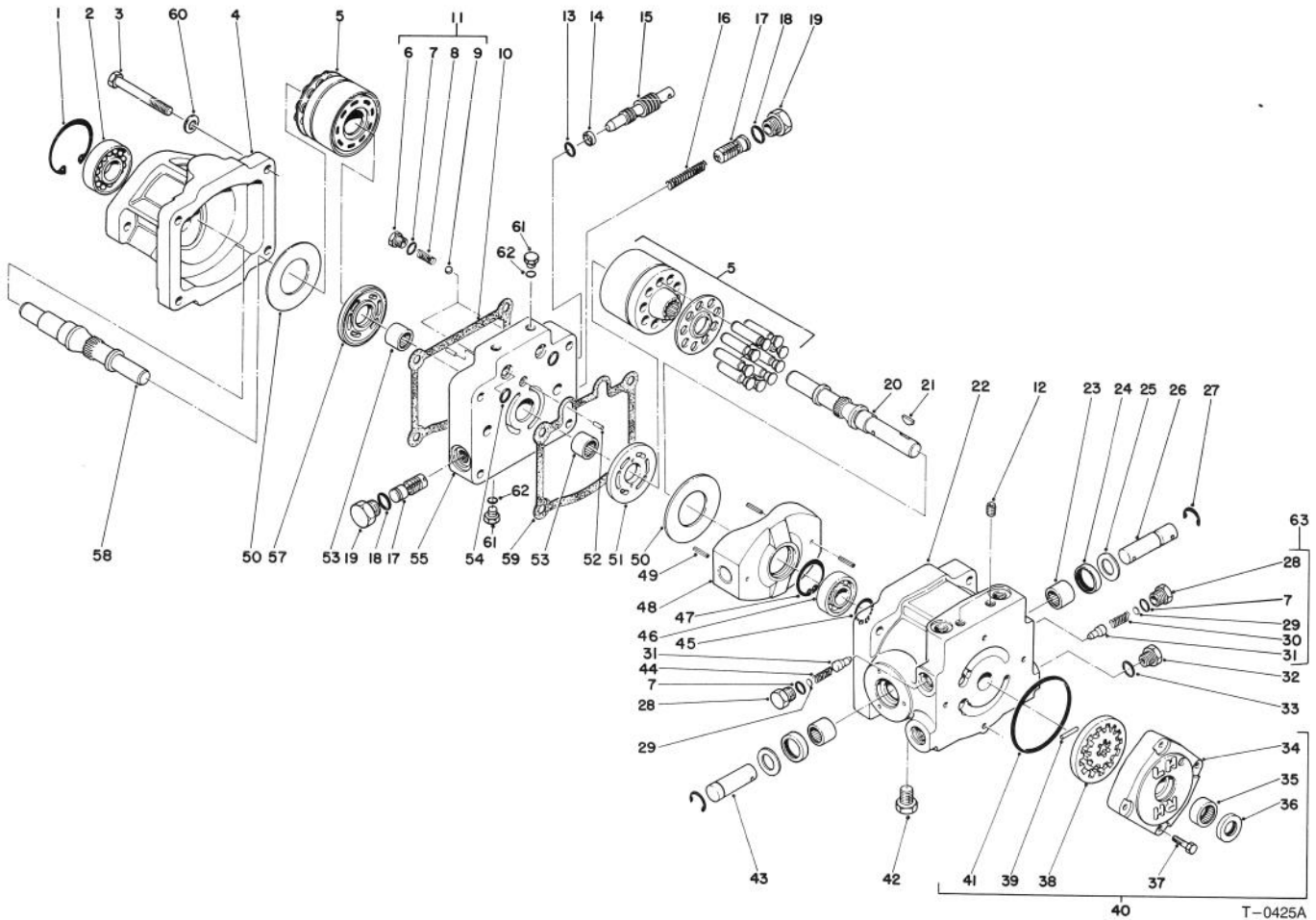


T-0424A

## 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
57	237-42	O-Ring	2

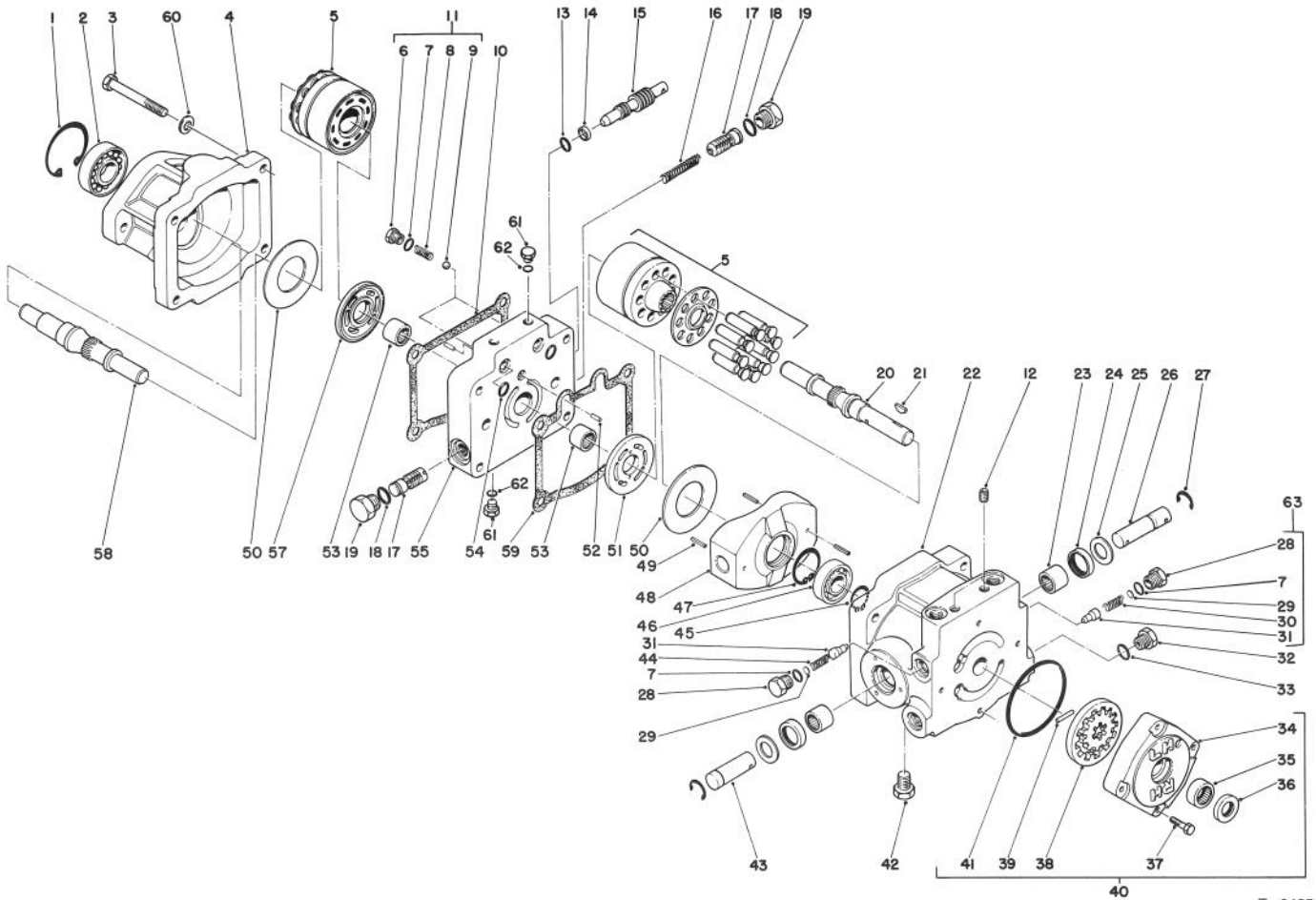
Ref. No.	Part No.	Description	No. Used
58	237-22	O-Ring	1
59	237-30	O-Ring	1
60	38-3400	Guard - Rubber	1



T-0425A

## TRANSMISSION ASSEMBLY NO. 92-8947

Ref. No.	Part No.	Description	No. Used	Ref. No.	Part No.	Description	No. Used
1	32120-8	Retaining Ring	1	26	25-2580	Trunnion Shaft	1
2	72-3750	Roller Bearing	1	27	32151-46	Retaining Ring	2
3	323-56	Screw - Cap, Hex. Hd.	4	28	25-2460	Plug - Hex. Hd.	2
4	67-9080	Motor Housing	1	29	25-2470	Shim Pack	2
5	48-1800	Cylinder Block Kit	2	30	25-2570	Valve Spring	1
6	25-2650	Check Valve Plug	2	31	83-7260	Relief Valve Cone	2
7	237-86	O-Ring	4	32	353-551	Hex. Hd. Plug	1
8	25-2640	Valve Spring	2	33	237-80	O-Ring	1
9	25-2490	Ball	2	34	25-2550	Charge Pump Housing	1
10	67-9100	Gasket	1	35	67-8050	Needle Bearing	1
11	25-3180	Check Valve Kit (Inc. Ref. #6-9)	2	36	93-4133	Lip Seal	1
12	285-17	Pipe Plug	2	37	322-4	Screw - Cap, Hex. Hd.	4
13	237-22	O-Ring	1	38	25-2680	Gerotor Assembly	1
14	25-2630	Back Up Ring	1	39	25-2530	Headless Straight Pin	1
15	88-8220	By Pass Valve	1	40	25-3190	Charge Pump (Incl. Ref. #34-39 & 41)	1
16	25-2610	Accel. Valve Spring	1	41	237-95	O-Ring	1
17	25-2410	Accel. Valve Assembly	2	42	67-9090	Plug	1
18	76-1900	O-Ring	2	43	25-2500	Trunnion Shaft	1
19	353-550	Plug - Hex. Hd.	2	44	25-2480	Valve Spring	1
20	67-8020	Pump Shaft	1	45	32120-15	Retaining Ring	1
21	3257-32	Woodruff Key	1	46	251-8	Ball Bearing	1
22	54-7890	Pump Housing	1	47	32120-11	Retaining Ring	1
23	252-82	Needle Bearing	2	48	25-2450	Variable Swashplate	1
24	25-3210	Lip Seal	2	49	32121-91	Coil Spring Pin	3
25	25-2510	Washer - Flat	2	50	25-2380	Thrust Plate	2

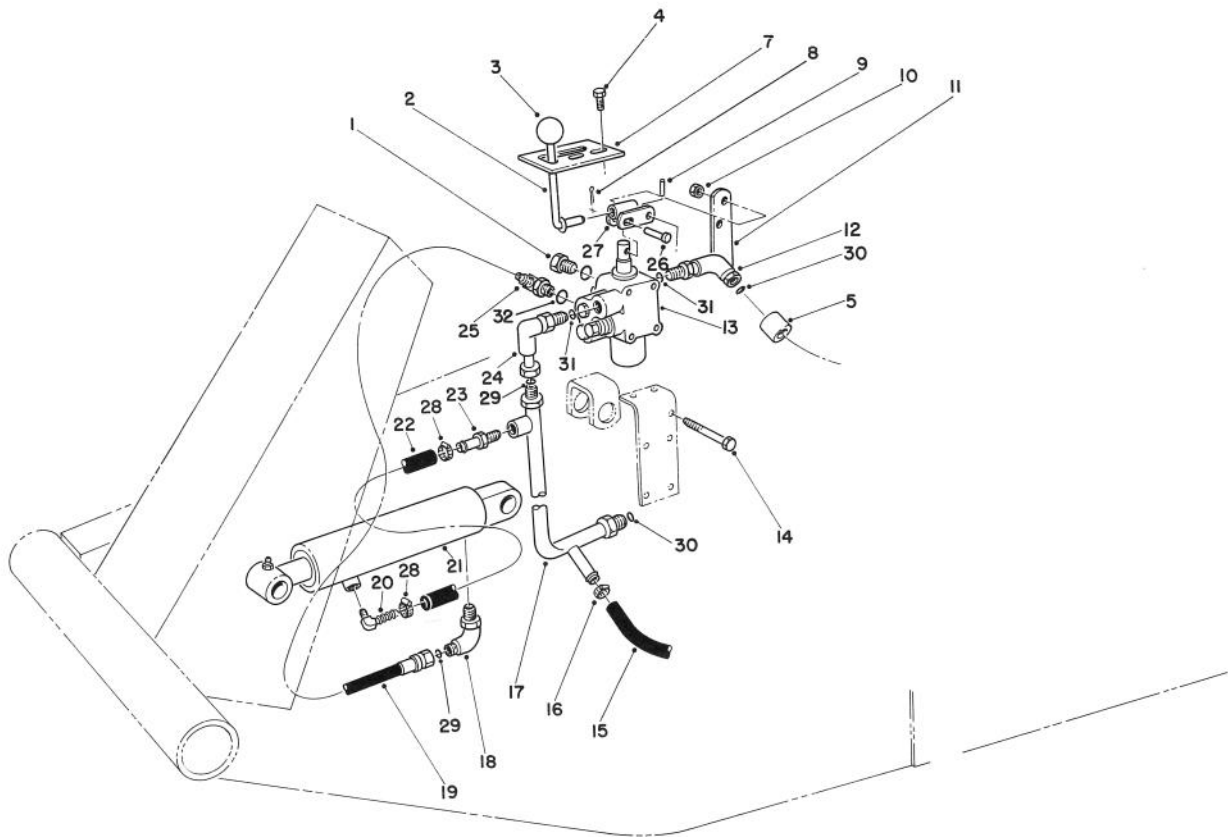


T-0425A

### 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	93-4132	O-Ring	2
55	92-8918	Center Section	1
57	25-2390	Motor Valve Plate	1
58	46-8410	Motor Shaft	1

Ref. No.	Part No.	Description	No. Used
59	25-2400	Gasket	1
60	93-0312	Washer	4
61	92-8776	Plug (Incl. Ref. #62)	4
62	92-8777	O-Ring	2
63	49-8520	Kit - Relief, Implement (Incl. Ref. #7 & 28-31)	1

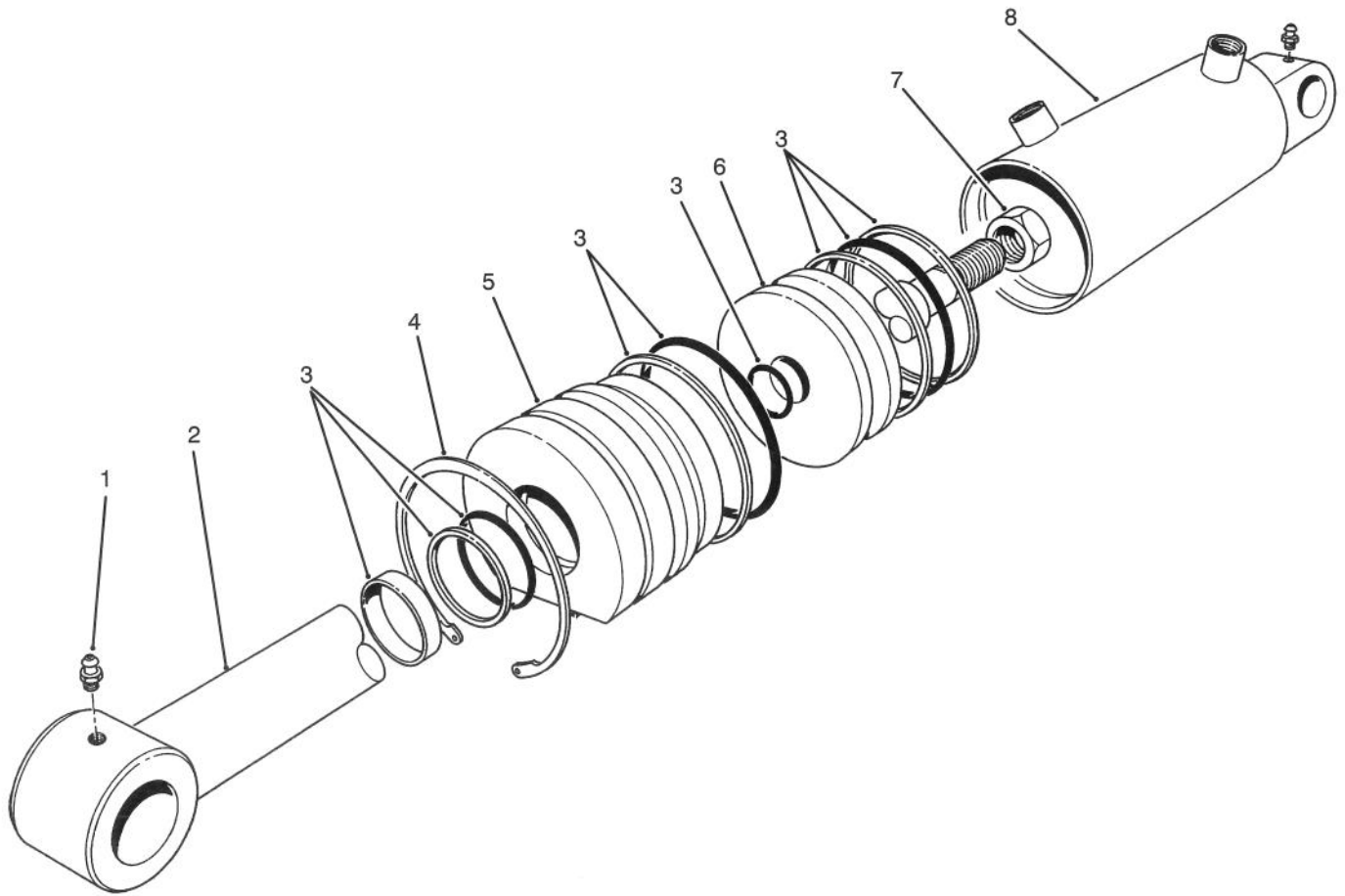


T-0426A

## VALVE & CYLINDER ASSEMBLY

Ref. No.	Part No.	Description	No. Used	Ref. No.	Part No.	Description	No. Used
1	353-512	Plug	1	19	92-7833	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
5	38-3400	Guard - Rubber	1	22	92-7834	Hose	1
7	21-8640	Latch Valve Lever	1	23	304-73	Fitting - Straight Barb	1
8	3272-6	Cotter Pin	1	24	340-110	Elbow - 90°	1
9	32121-73	Pin Slotted Spring	1	25	340-97	Fitting - 90°	1
10	3296-42	Nut - Lock	5	26	283-17	Pin	1
11	21-9010	Pivot Mount - Valve Lever	1	27	21-8590	Link - Valve Lever	1
12	340-99	Fitting - 90° Elbow	1	28	2412-108	Clamp Hose	2
13	43-1710	Valve Assembly	1	29	237-22	O-Ring	2
14	321-23	Screw - Cap, Hex. Hd.	5	30	237-30	O-Ring	2
15	63-8990	Hose	1	31	237-42	O-Ring	2
16	2412-36	Clamp - Hose	1	32	237-78	O-Ring	2
17	63-9260	Manifold - Valve	1				
18	340-112	Elbow 90°	1				

\*Not Illustrated



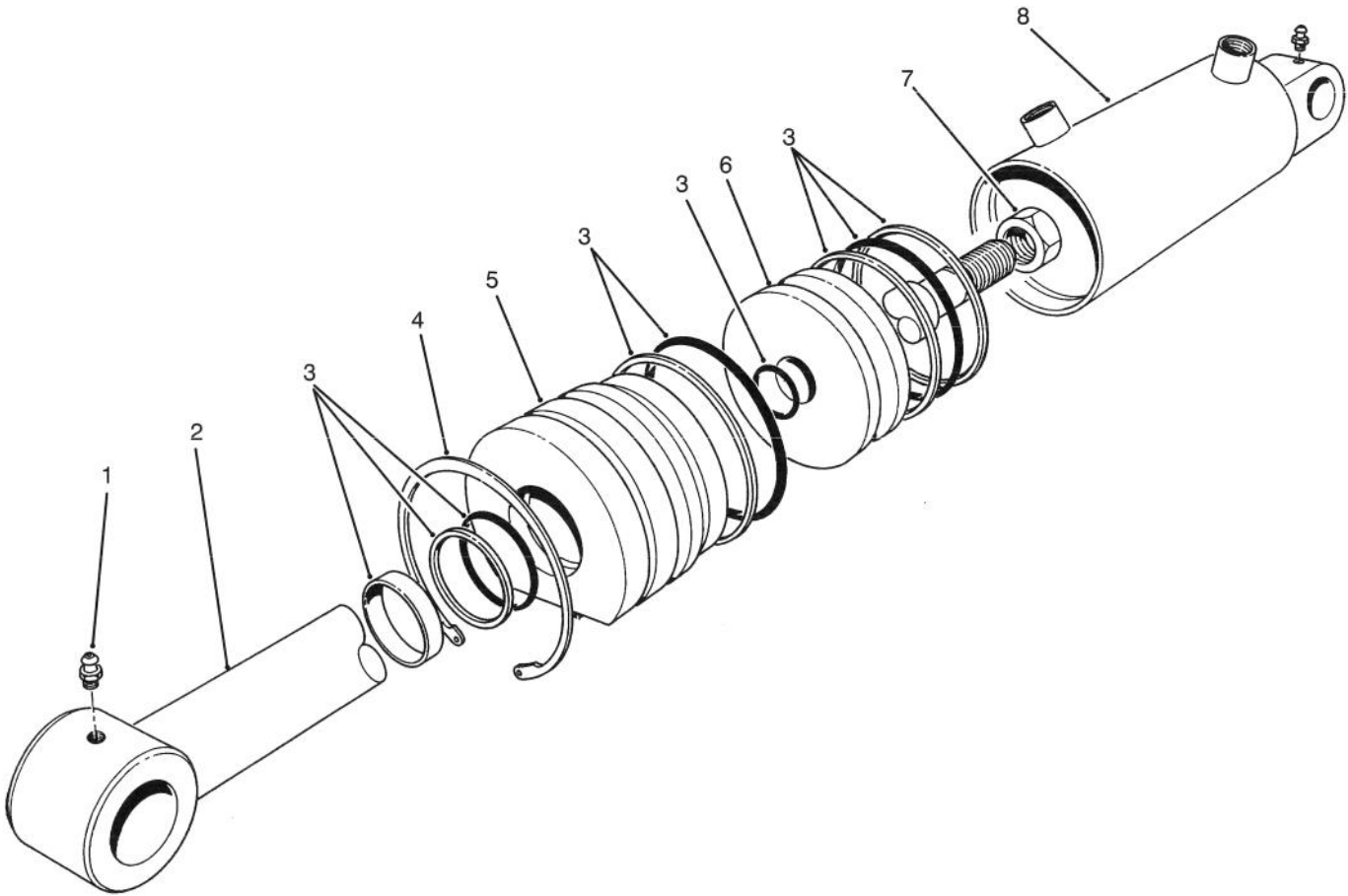
T-0527

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

Ref. No.	Part No.	Description	No. Used
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.



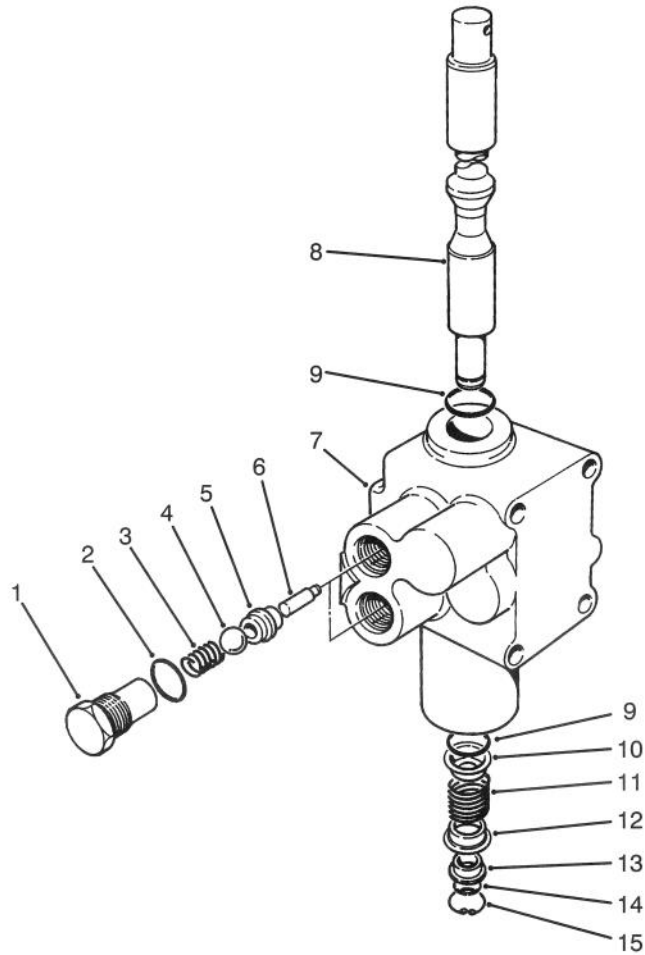
T-0527

## 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.

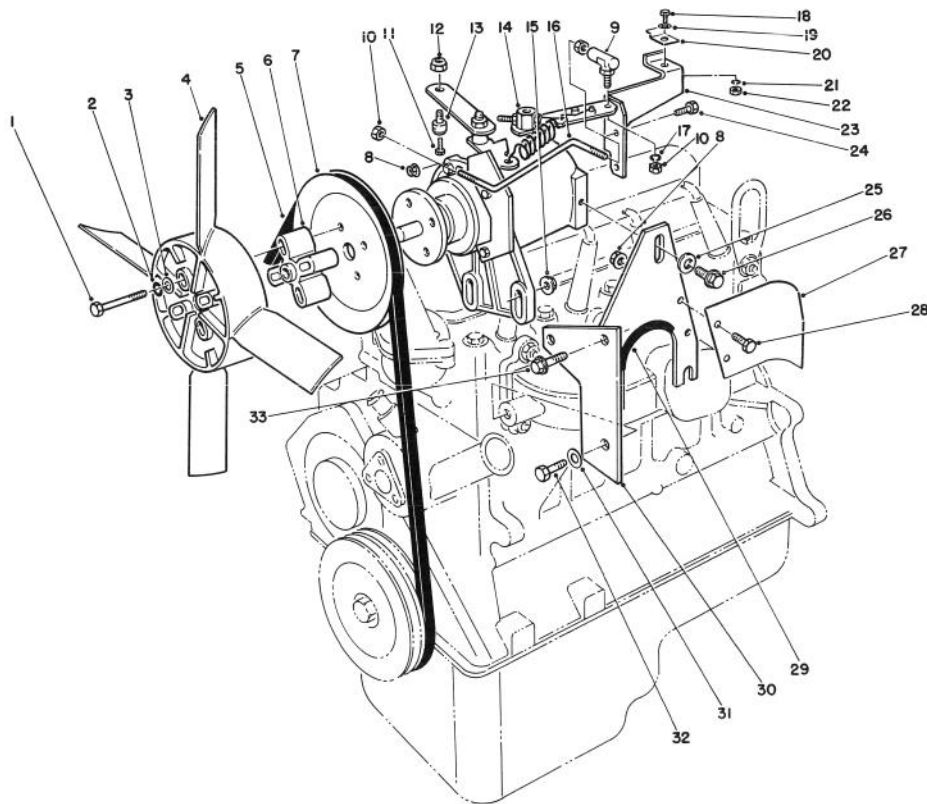


T-0428

### 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



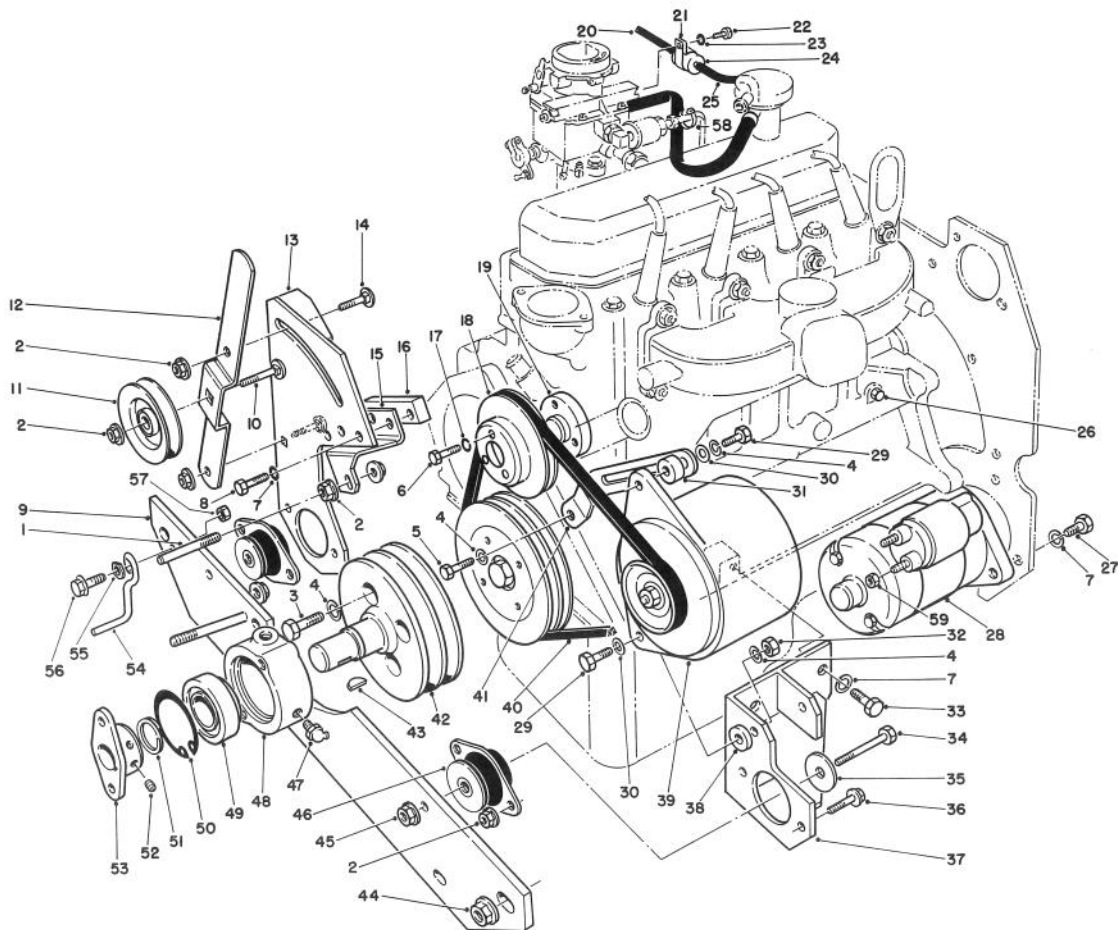
T-0921

## 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	48-8030	Washer - Flat	1
15	3290-357	Nut - Lock, Flange	2	32	66-3160	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.

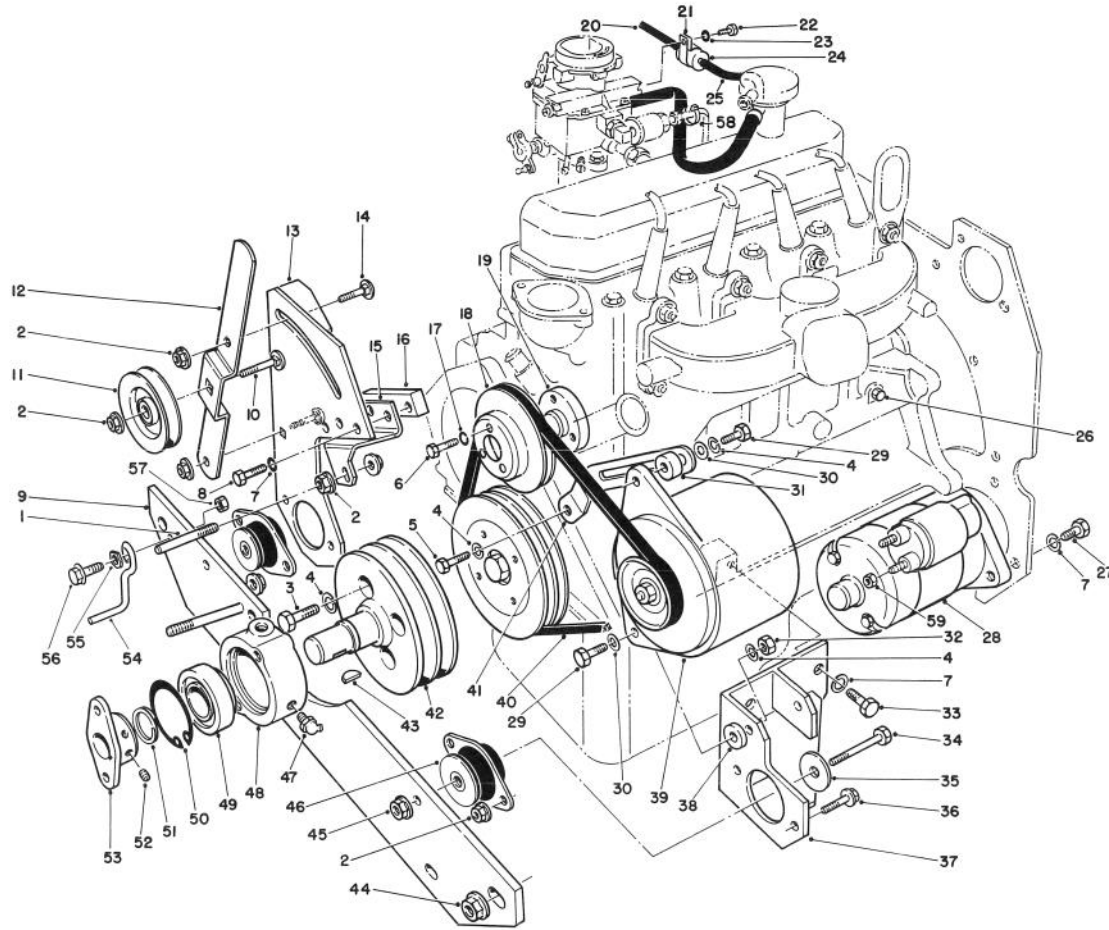


T-0922A

## 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	91AB-11000-JB	Starter	1
4	42-9850	Washer - Lock	8	29	42-9530	Screw - Metric	3
5	48-7730	Screw - Metric	1	30	48-8030	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	324-11	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	86AX-10300-DB	Alternator	1
15	67-8350	Bracket - Guide Belt	1	40	92-9785	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.

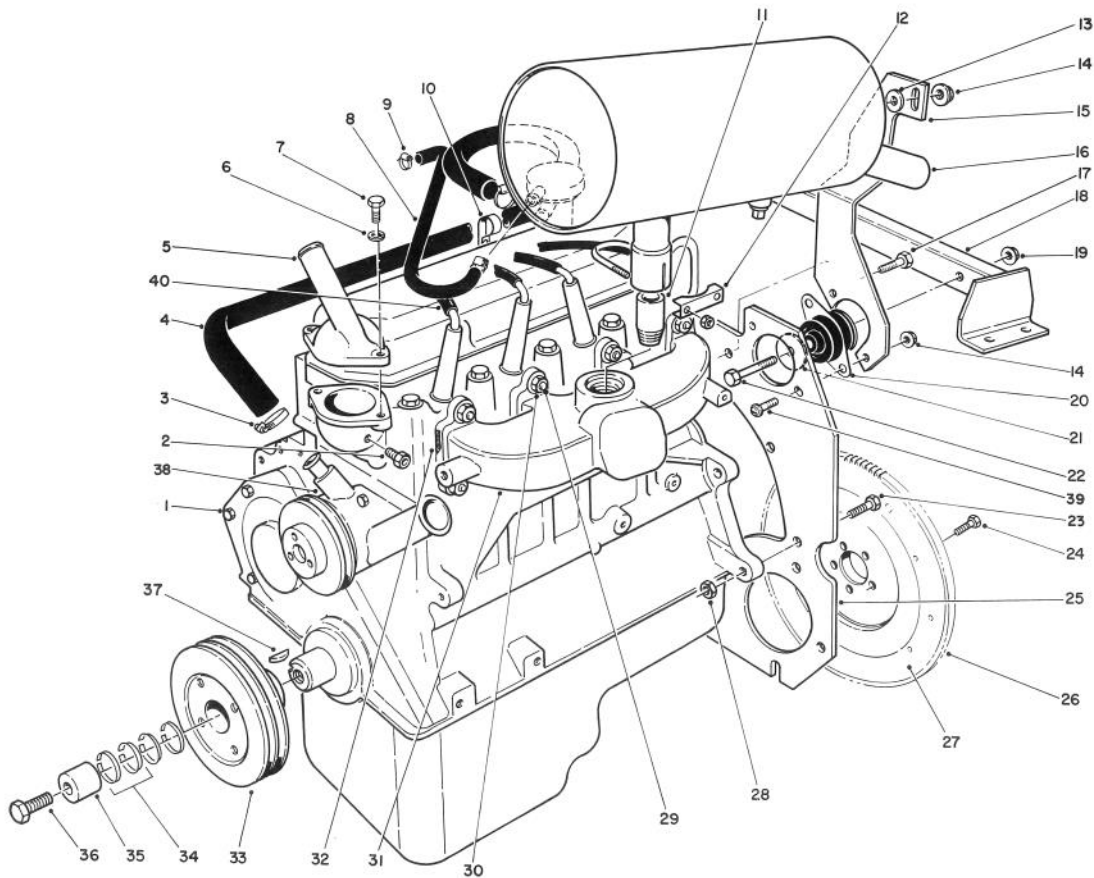


T-0922A

## 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
55	3290-224	Washer - Pyramidal	1

Ref. No.	Part No.	Description	No. Used
56	3234-18	Screw - Hex. Hd. Flange	1
57	32153-2	Nut - Lock	1
58	3290-379	Cable - Tie	3
59	48-7890	Nut	1



T-0923A

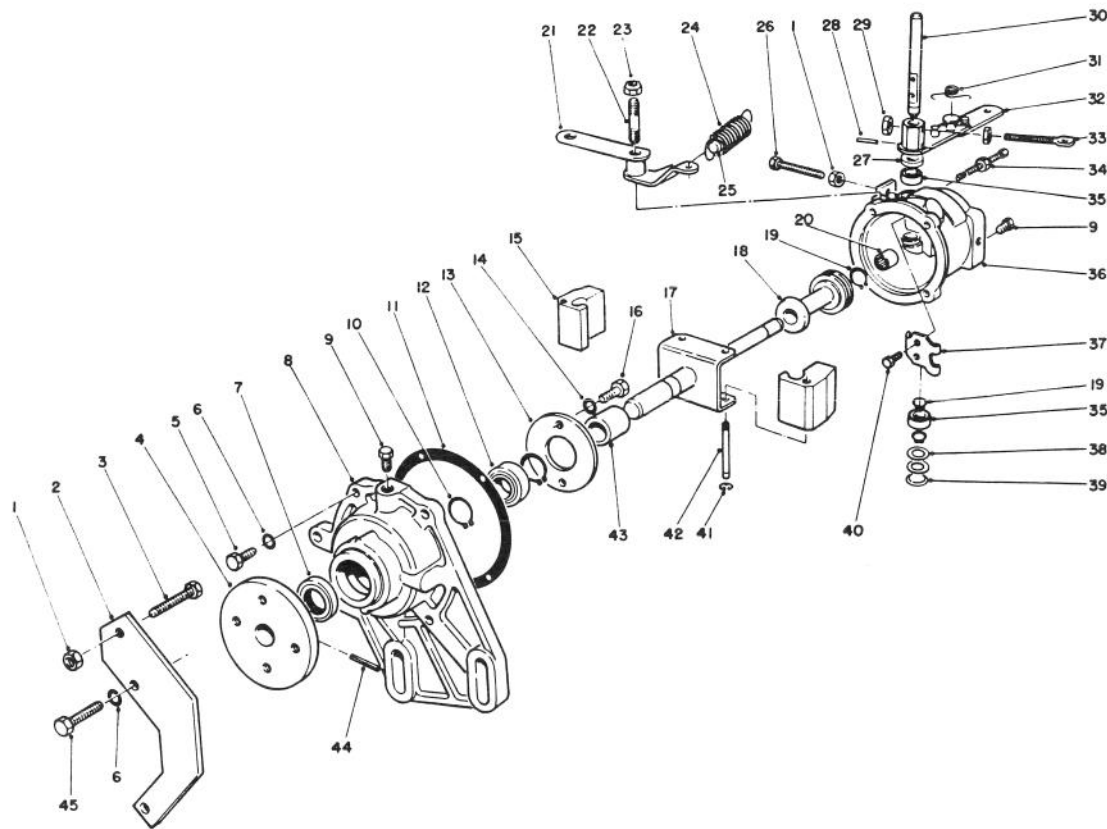
## ENGINE ASSEMBLY

Ref. No.	Part No.	Description	No. Used
‡1	Model VSG-411	Engine TYPE 6005A	1
2	70-1690	Adapter - Gauge Temp.	1
3	2412-119	Clamp - Hose	2
4	70-1670	Hose - Heater	1
5	67-8940	Connector - Outlet	1
†6	E630173-S71 M	Washer - Lock	2
†7	E6021 87-S72	Screw - Cap	2
8	70-2050	Hose - Breather	1
9	2412-108	Clamp	2
10	2412-39	Clamp - R	1
11	67-9130	Pipe - Muffler	1
12	2112-6	Clamp - Muffler	1
13	5-0652	Spacer	1
14	3290-357	Nut - Lock, Flange	5
15	67-8420	Bracket - Muffler	1
16	67-9120	Muffler	1
†17	N605799-S2	Bolt	2
18	67-8480	Support - Engine Rear	1
19	32128-37	Nut - Lock, Flange	2
20	53-9680	Mount - Engine	2
21	53-9480	Washer - Snubber	2

Ref. No.	Part No.	Description	No. Used
22	324-11	Screw - Cap, Hex Hd.	2
†23	N80057-S2	Bolt	4
†24	D2RY-6379-A	Bolt	6
25	67-8440	Plate - Support Engine	1
†26	D8RZ-6384A	Ring Gear - Flywheel	1
†27	89BM-6375-AA	Flywheel Assembly (Incl. Ref. #26)	1
†28	N620482-S2	Nut	4
†29	E805697-S76	Stud	8
†30	N620481-S2	Nut	8
†31	EBJL-9430-CA	Manifold - Exhaust	1
†32	89BM-9448-BA	Gasket - Manifold	4
†33	E7JL-6A312-AA	Pulley	1
†34	E7JL-6N300-AA	Locking Ring Set	2
†35	E7JL-6378-AA	Compression Ring	1
†36	E7JL-6K340-AA	Bolt	1
†37	Dory-6B316-A	Key	1
†38	92BX8591-BA	Water Pump Kit (Incl. Pulley & Gasket)	1
39	3234-11	Screw - Flange Lock	4
40	86-7921	Cover - Spark Plug Wire	4

†Obtain from your local Ford Power Products Dealer.

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

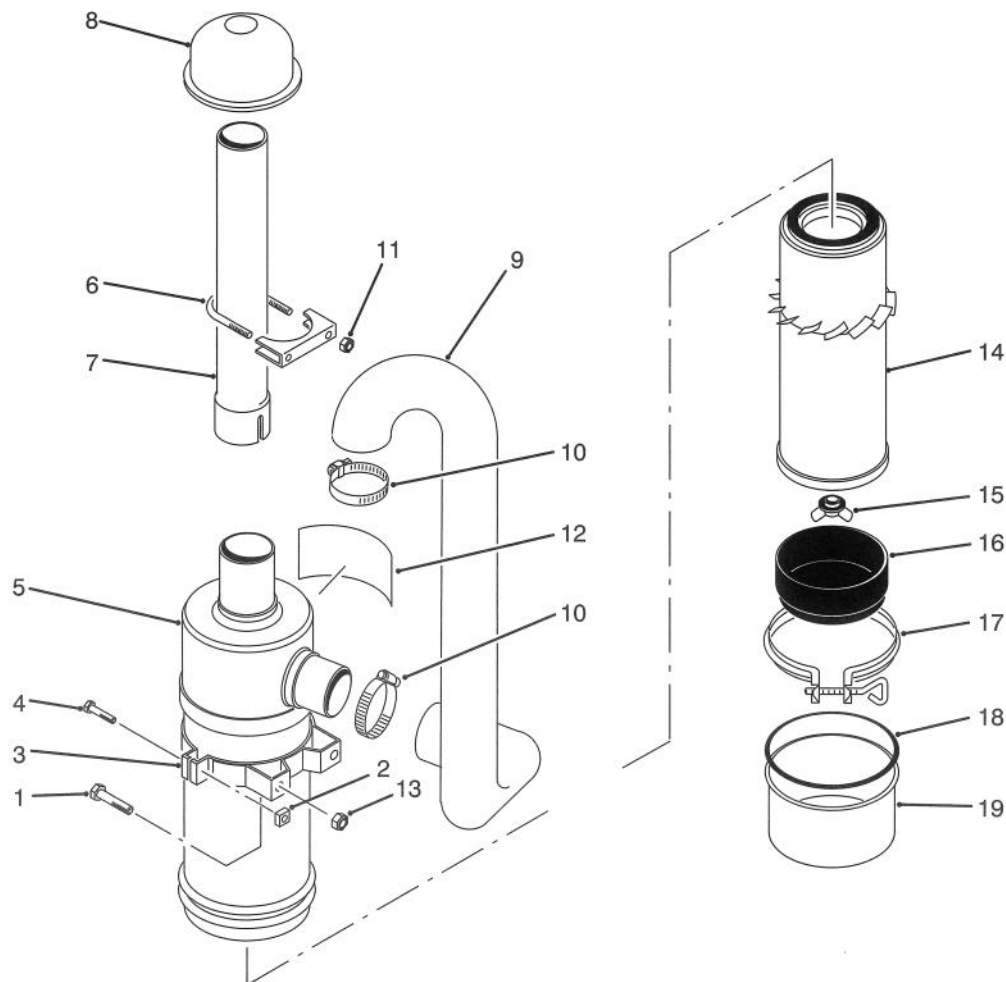


T-0933

## 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

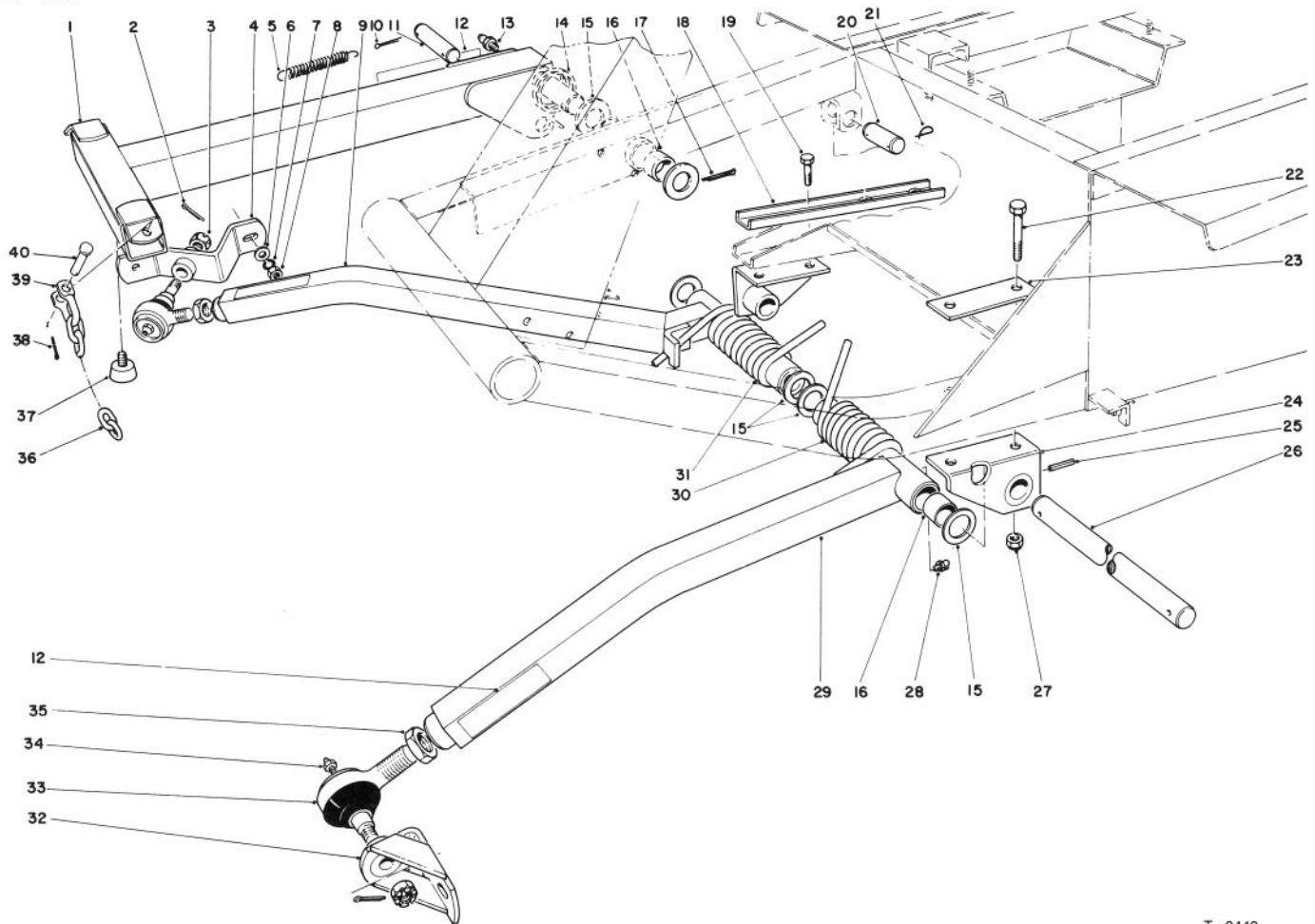


T-0934

## 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	Muffler 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

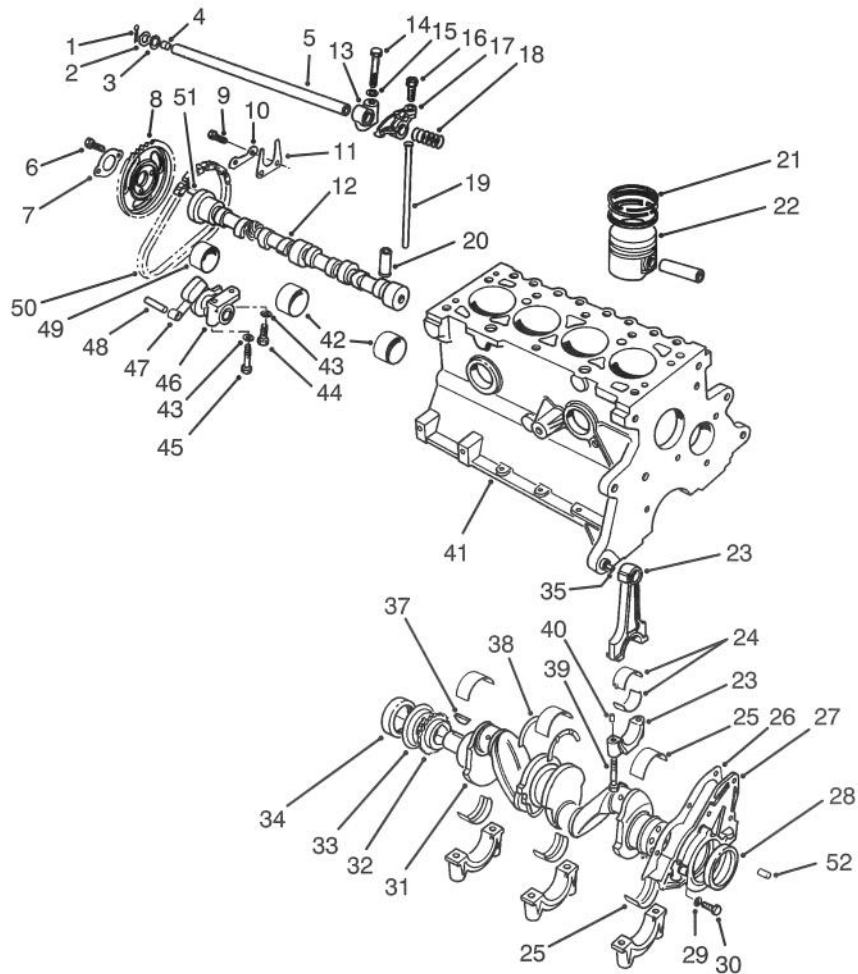


T-0440

## 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	324-11	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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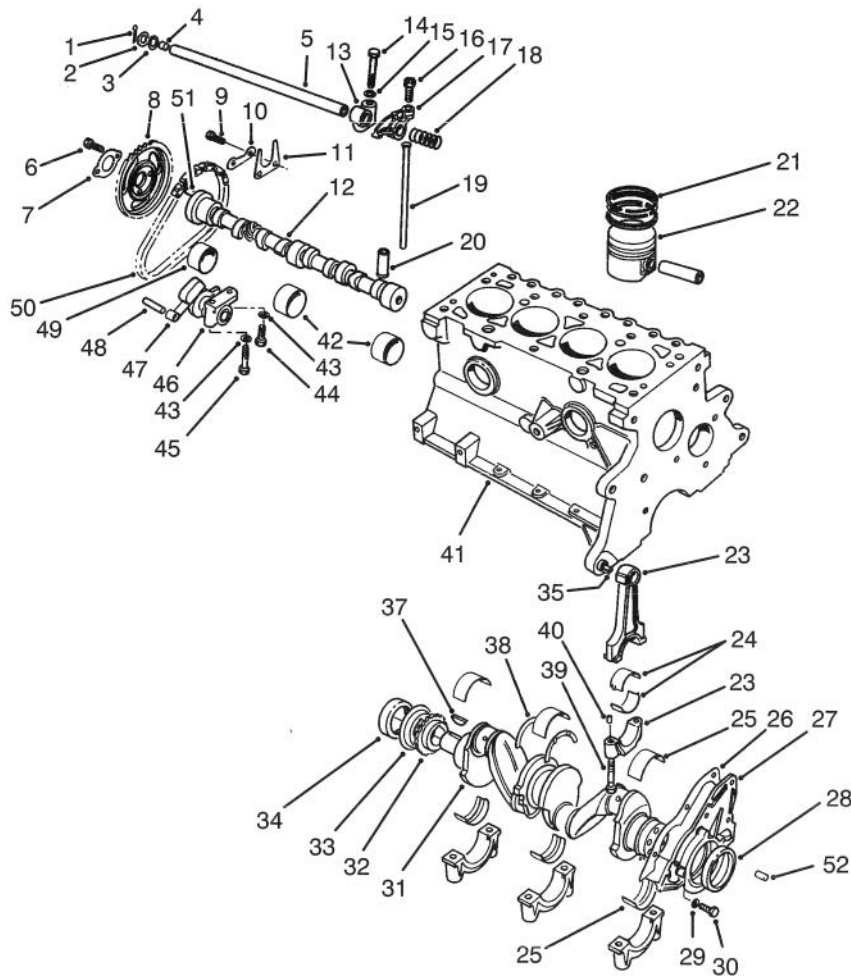
## CRANKSHAFT & CAMSHAFT ASSEMBLY

Ref. No.	Part No.	Description	No. Used
1	72025-S7	Cotter Pin	2
2	77BM-6598-AB	Washer - Spring	2
3	DORY-6590-A	Washer - Flat	2
4	357966-S	Plug - Rocker Arm Shaft	2
5	89BM-6A557-AA	Rocker Arm Shaft Assy. (Incl. Ref. #4)	1
6	E602351-S72	Bolt	2
7	DORY-6258-A	Retainer	1
8	77BM-6256-AA	Sprocket - Camshaft	1
9	N602166-S2	Bolt	2
10	DORY-6255-A	Retainer	1
11	DORY-6269-A	Plate - Thrust	1
12	89BM-6251-AA	Camshaft	1
13	77BM-6531-BB	Support - Rocker Shaft	4
14	E800509-S72	Bolt - Rocker Support	4
15	E630031-S101	Washer	4
16	DORY-6549-B	Screw	8
17	89BM-6529-AB	Valve Rocker Arm - R.H. (Incl. Ref. #16)	4
*	89BM-6K528-AB	Valve Rocker Arm - L.H. (Incl. 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

Ref. No.	Part No.	Description	No. Used
22	89BM-6102-AA	Piston Assembly STD. (Incl. Ref. #21)	4
*	89BM-6102-BA	Piston Assembly .020 OS. (Incl. Ref. #21)	A/R
*	89BM-6102-CA	Piston Assembly .040 OS. (Incl. Ref. #21)	A/R
23	89BM-6200-AD	Connecting Rod Assy.	4
24	89BM-6211-AA	Bearing - Rod STD.	8
*	89BM-6211-BA	Bearing - Rod .001 U.S.	A/R
*	89BM-6211-CA	Bearing - Rod .010 U.S.	A/R
*	89BM-6211-DA	Bearing - Rod .020 U.S.	A/R
*	89BM-6211-EA	Bearing - Rod .030 U.S.	A/R
25	89BM-6333-AA	Bearing - Crank Upper STD. OD STD. ID	5
*	89BM-6331-AA	Bearing - Crank Lower STD. OD STD. ID	5
*	89BM-6333-BA	Bearing - Crank Upper STD. OD .005 US. ID	A/R
*	89BM-6331-BA	Bearing - Crank Lower STD. OD .005 US. ID	A/R
*	89BM-6333-CA	Bearing - Crank Upper STD. OD .010 US. ID	A/R

\*Not Illustrated

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



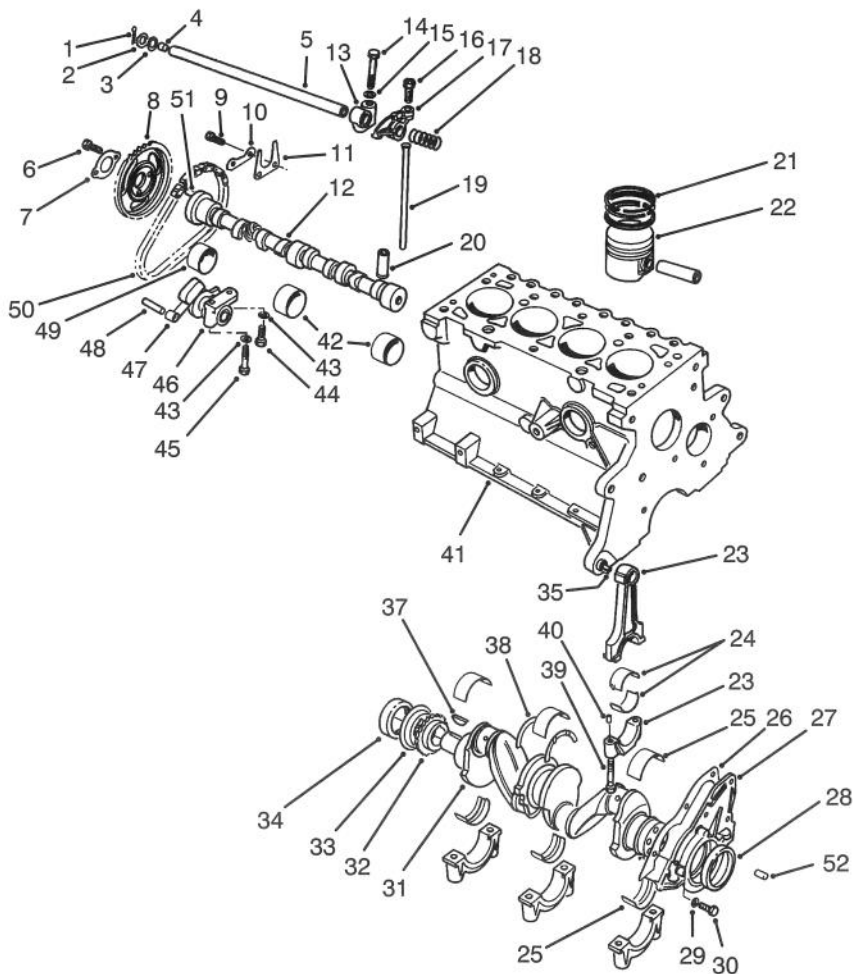
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## CRANKSHAFT & CAMSHAFT ASSEMBLY (Continued)

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	Slinger 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 US. 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

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



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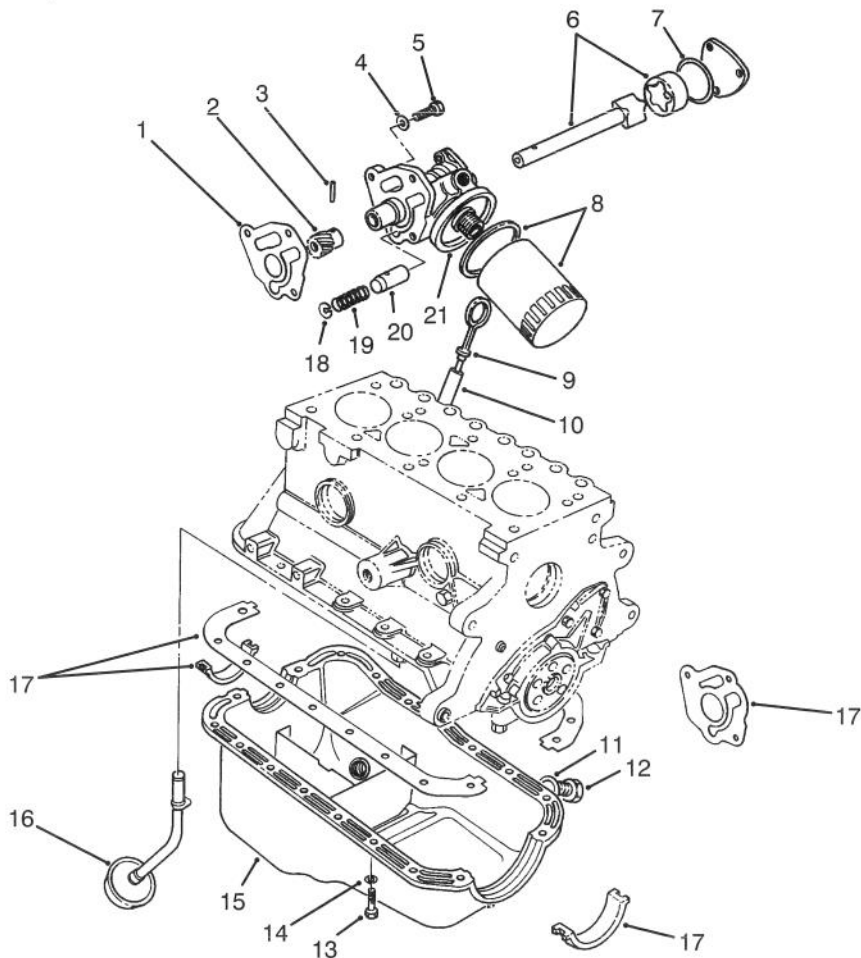
## CRANKSHAFT & CAMSHAFT ASSEMBLY (Continued)

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.

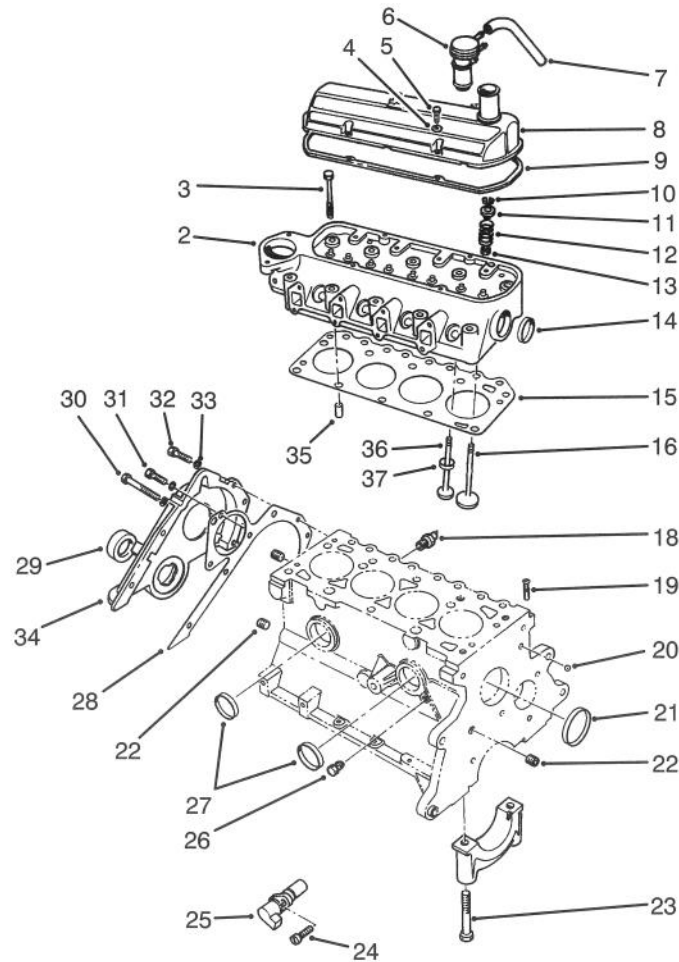


T-1003

## 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	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.



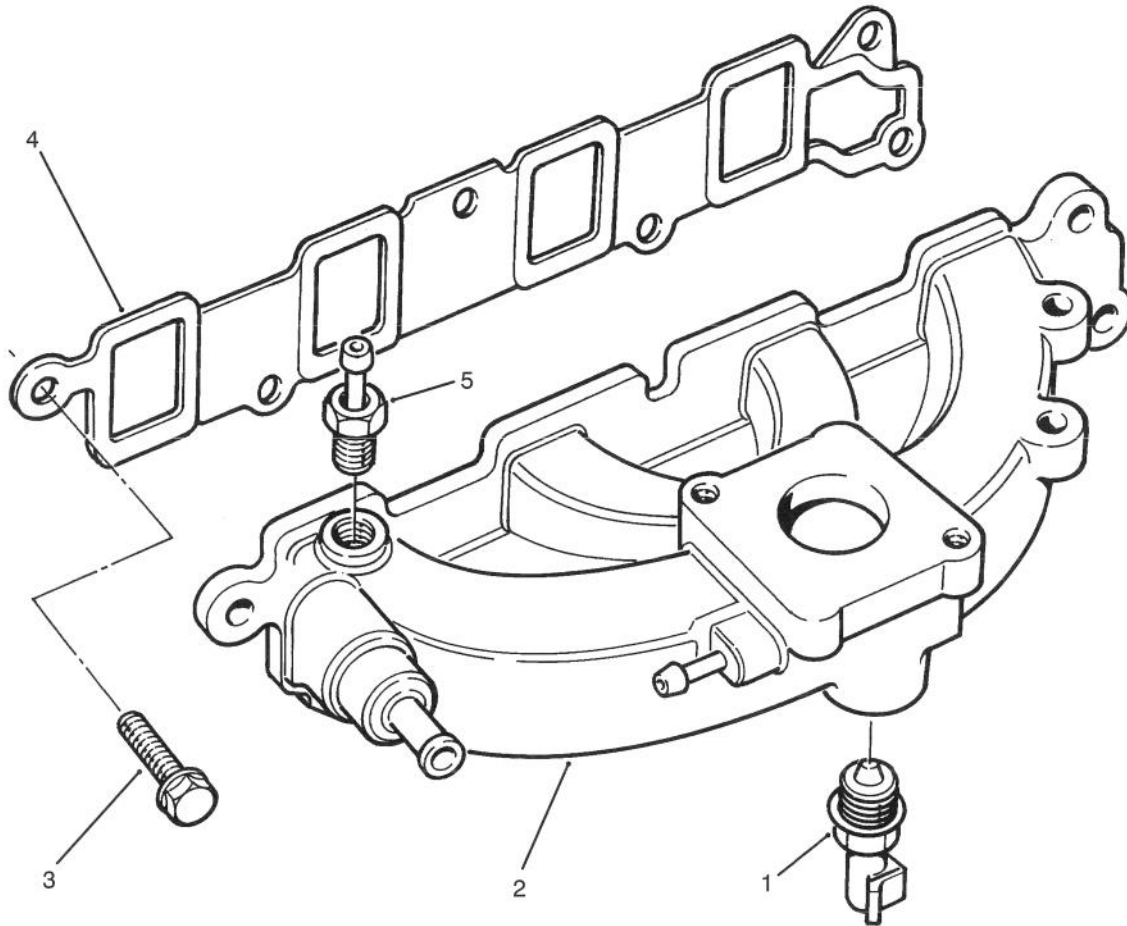
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## CYLINDER HEAD & VALVE ASSEMBLY

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
18	E7RZ-9278-A	Switch Oil Pressure	1	*	89BM-6505-CA	Valve - Exhaust Std.	4
19	D8RZ-6767-A	Adapter	1	37	89BM-6057-A2E	Insert - Exhaust Seat	4
20	E890100-S	Plug - Ball - Oil Gallery	1				

\*Not Illustrated

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

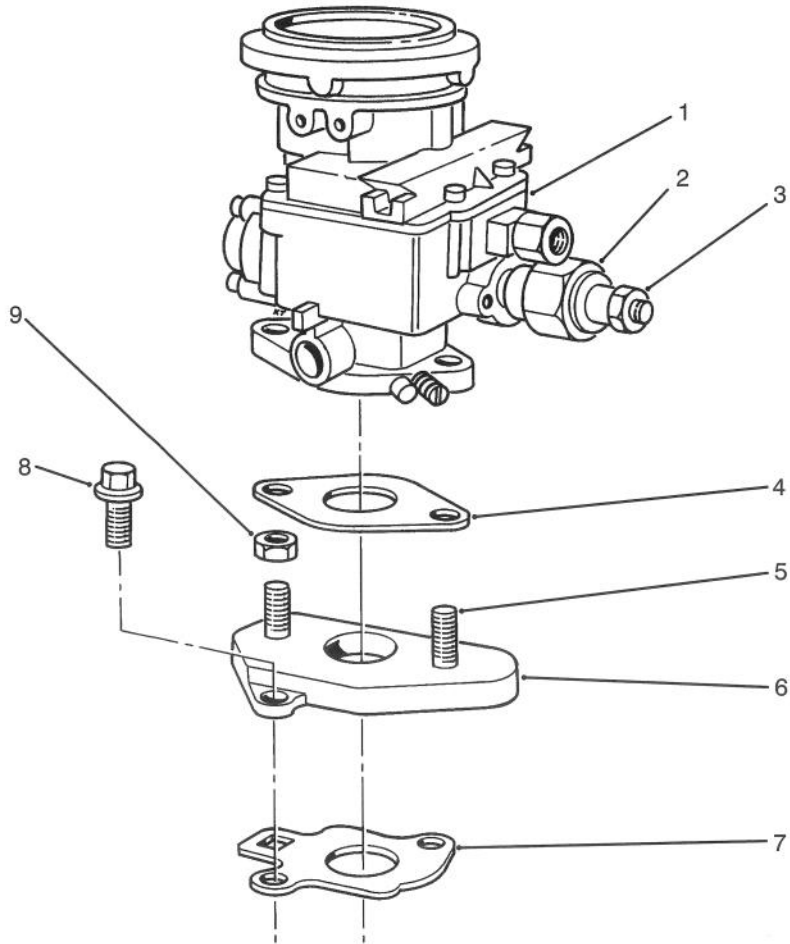


T-1176

## 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

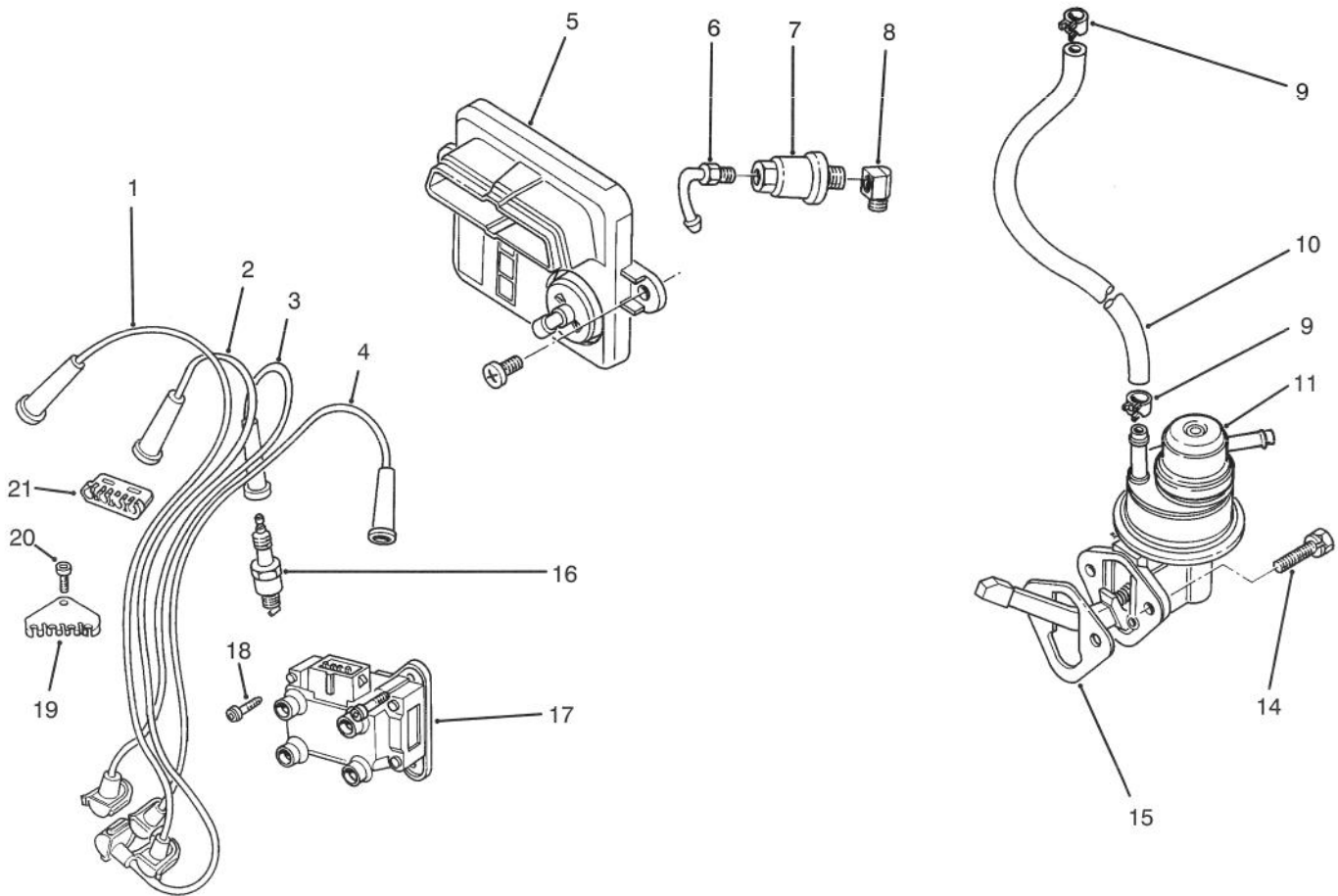
## CARBURETOR ASSEMBLY

Ref. No.	Part No.	Description	No. Used
1	FOJL-9510BA	Carburetor Assembly	1
2	84FB-9K765-BA	Solenoid	1
3	N621903-S2	Nut & Washer	1
4	E5JL-9447-BA	Gasket	1
5	E804216S	Stud	2

Ref. No.	Part No.	Description	No. Used
6	E8JL-9A589-CB	Adapter	1
7	87BF-9447-BA	Gasket	1
8	N800055-S	Bolt	2
9	N620041-S51	Nut	2
*	FOJI-9590-BA	Repair Kit	1

\*Not Illustrated

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



T-1233

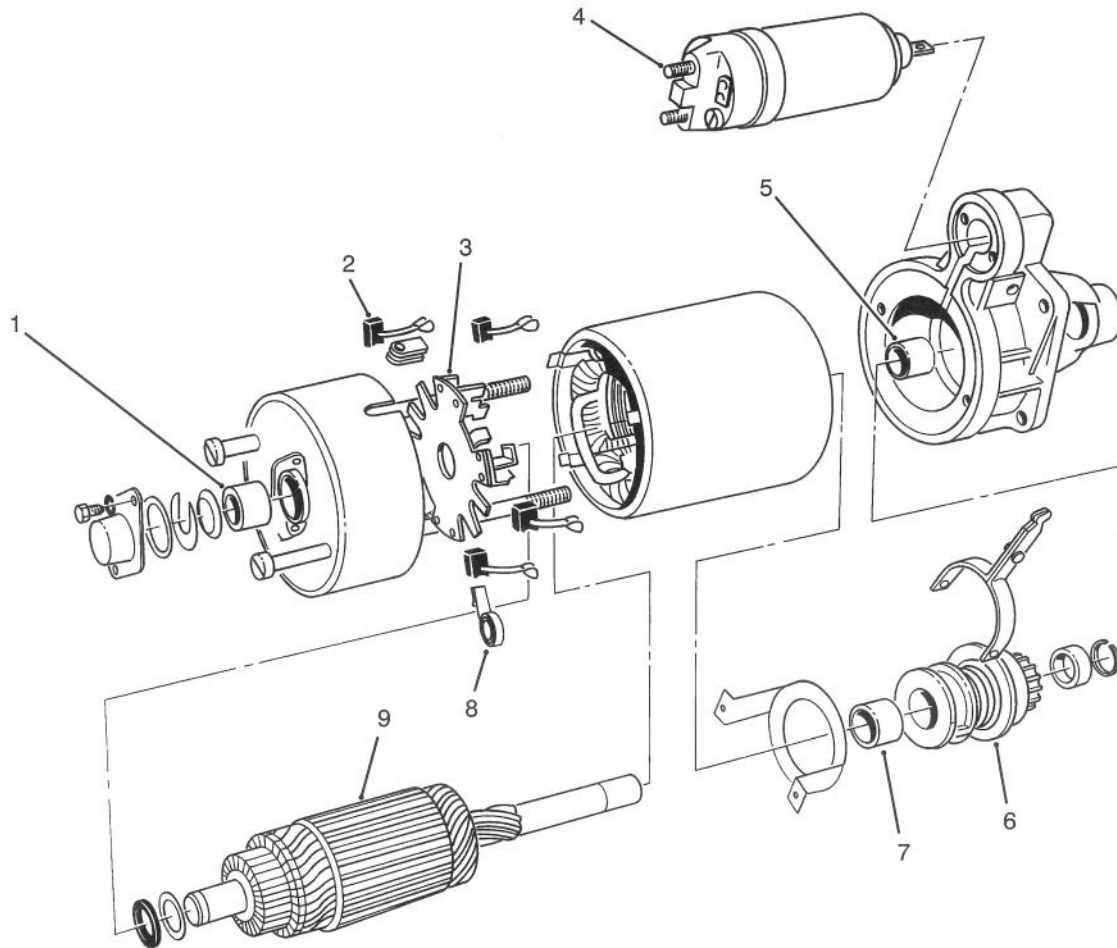
## IGNITION & FUEL PUMP ASSEMBLY

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	4
	* AGSF22C	(Motorcraft)	
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.



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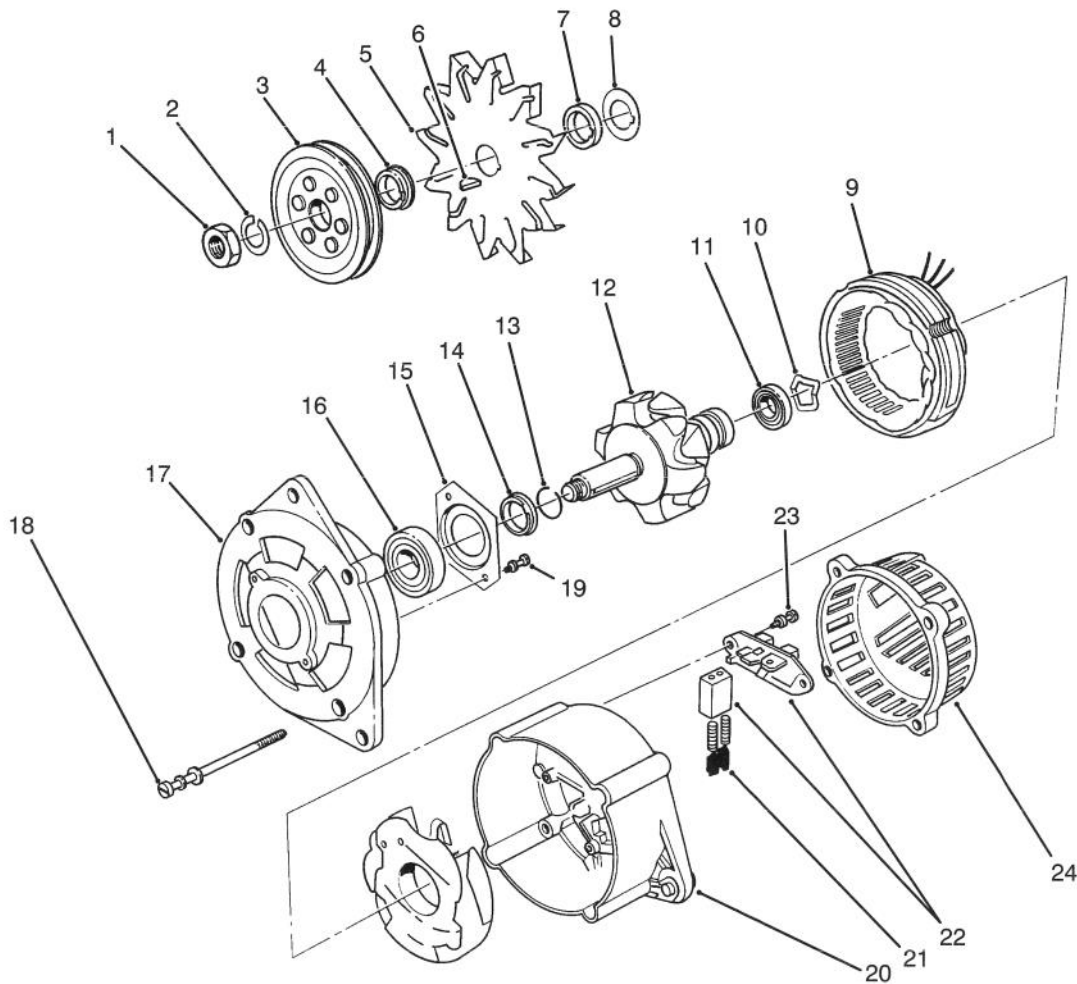
### STARTER MOTOR ASSEMBLY (91AB11000JB)

Ref. No.	Part No.	Description	No. Used
1		Bushing – Brush End	1
2		Brush Set	1
3		Holder – Brush	1
4		Solenoid	1
5		Bushing – Drive End	1

Ref. No.	Part No.	Description	No. Used
6		Drive Assembly	1
7		Bushing – Starter Drive	1
8		Spring – Brush	4
9		Kit – Armature Installation	1
*		Kit – Wiring, Service	1

\*Not Illustrated

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



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## 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	*	86AX-10300-DB	Alternator Complete	1
13		Retainer	1				
14		Bushing	1				

\*Not Illustrated

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

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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	21-3750	Support Plate	34	23	1
3-3251	Spring - Compression	9	9	1	21-5640	Joint - Ball	28	9	1
3-6498	Washer	7	18	A/R	21-7670	Differential Case	16	33	1
3-6657	Clip	6	5	2	21-7690	Pinion Gear	15	6	2
3-7243	Spring - Extension	9	13	2	21-7700	Pinion Mate Shaft	16	31	1
3-7292	Pin	34	20	1	21-7720	Thrust Washer	15	4	2
3-8812	Spacer	7	19	1	21-7730	Thrust Washer	15	7	2
5-0652	Spacer	31	13	1	21-7770	Drive Gear Screw	16	32	5
5-0652	Spacer	7	37	1	21-7830	Gear Cover	15	12	1
5-0701	Spring Anchor	8	52	1	21-7850	Cap - Plug	15	20	1
5-1226	Washer	18	17	A/R	21-8020	Spacer - Pinion Bearing	16	25	1
5-1747	Spring	7	21	1	21-8090	Adjustment Shim .003	16	38	A/R
5-1754	Washer	34	15	6	21-8100	Adjustment Shim .005	16	37	A/R
5-2942	Shackle	34	39	1	21-8110	Adjustment Shim .010	16	36	A/R
5-3126	Spring Pin	34	21	3	21-8120	Adjustment Shim .030	16	35	A/R
7-3900	Pad - Brake	9	1	1	21-8180	Bearing	17	3	2
10-6830	Stud - Drive	18	24	10	21-8270	Dowel Pin	15	3	2
10-8110	Washer	18	18	3	21-8360	Clip - Retaining	17	12	2
11-0590	Screw - Hex Self-Tapping	5	36	2	21-8590	Link - Valve Lever	24	27	1
11-0590	Screw - Hex. Hd. Tapping	9	5	2	21-8620	Lever Valve	24	2	1
11-9760	Self Tapping Screw	20	52	3	21-8640	Latch Valve Lever	24	7	1
12-5450	Thread Forming Screw	15	13	8	21-9010	Pivot Mount - Valve Lever	24	11	1
12-9990	Hour Meter	3	16	1	21-9260	Cover - Dust	11	4	1
14-8459	Hood	5	44	1	21-9370	Screw - Adjusting	17	16	2
18-1520	Filter - Gas	14	43	1	21-9380	Nut - Pivot	17	17	2
18-2770	Cable - Ground	2	51	1	21-9390	Socket - Adjusting Screw	17	15	2
18-5410	Spring - Torsion	32	31	1	21-9420	Spring - Shoe Return L.H.	17	19	2
18-5430	Plug - Expansion	32	39	1	21-9430	Spring - Shoe Return R.H.	17	7	2
18-5440	Spacer	32	38	2	21-9440	Spring - Adjusting Screw	17	14	2
18-5450	Bearing	32	35	2	21-9450	Dust Shield	17	5	2
18-5520	Lever - Rocker	32	37	1	21-9460	Retainer - Brake Lever	17	10	4
18-5530	Screw & Lockwasher	32	40	2	22-7810	Spacer	14	24	1
18-5540	Ring - Retaining	32	19	3	22-7810	Spacer	3	27	1
18-5580	Seal - Oil Front	32	7	1	22-7820	Buzzer Assembly	3	28	1
18-5620	Screw	32	5	2	22-8330	Plug	27	1	2
18-5630	Washer - Lock	32	6	4	22-8340	Spring	27	3	2
18-5640	Ring - Retaining	32	10	2	22-8350	Ball	27	4	2
18-5660	Pin - Pivot Flyweight	32	42	2	22-8360	Pin - Cam	27	6	2
18-5670	Retainer - Pin Pivot	32	41	2	22-8370	Seat - Check Valve	27	5	2
18-5750	Pin	32	28	1	22-8380	Spring Retainer	27	10	1
18-5770	Washer - Lock	32	14	2	22-8390	Spring Retainer	27	12	1
18-5790	Gasket	32	11	1	22-8400	Spacer Float	27	13	1
20-4840	Muffler Clamp	33	6	1	22-8410	Spring	27	11	1
21-0141	Socket Assembly R.H.	9	26	1	22-8420	Spool	27	8	1
21-0141	Socket Assembly R.H.	18	39	2	22-8480	Spring Ring Spool	27	14	1
21-0151	Socket Assembly L.H.	18	*	2	22-8490	Snap Ring	27	15	1
21-0230	Pulley - P.T.O.	7	13	1	22-8500	O-Ring	27	9	2
21-0400	Spring - Compression	7	48	1	23-1950	Support Reinforcement	34	18	1
21-1600	Clamp P.T.O. Lever	8	54	1	23-2240	Rod - Pump Control	9	17	1
21-1820	Stud - Retainer Belt	29	1	3	23-2270	Bushing - Rubber	9	16	1
21-1830	Spring - Tension	7	50	1	23-5180	Dipstick	14	38	1
21-1830	Spring Tension	34	5	1	23-7270	Nut - Wheel	14	30	10
21-1880	Grip - Handle	11	35	1	23-9740	Oil Filter	20	34	1
21-1880	Grip Handle	7	1	1	24-6390	Stud - Battery Hold Down	1	12	2
21-2000	Rod - Tie	18	41	2	24-6420	Hold Down - Battery	1	20	1
21-2660	Footrest	1	5	1	24-8790	Differential Bevel Gear Side	15	5	2
21-2760	Pad - Foot Rest L.H.	2	46	1	24-8840	Ring - Wheel Bearing	17	21	2
21-2770	Pad - Foot Rest R.H.	2	45	1	24-9180	Strut & Lever Parking Brake	17	4	2
21-2820	Hub - Wheel	18	25	2	24-9510	Pin	34	11	1
21-2850	Mount - R.H. Pedal	9	4	1	24-9830	Support - Axle	16	44	1
21-2860	Push Arm Bracket	34	24	2	25-2380	Thrust Plate	22	50	2
21-2890	Spring - Torsion RH	34	31	1	25-2390	Motor Valve Plate	23	57	1
21-2900	Spring - Torsion LH	34	30	1	25-2400	Gasket	23	59	1
21-2960	Push Arm LH	34	29	1	25-2410	Accel. Valve Assembly	22	17	2
21-2990	Shaft Pivot	34	26	1	25-2430	Dowel Pin	23	52	2
21-3000	Jam Nut	34	35	2	25-2440	Pump Valve Plate	23	51	1
21-3020	Ball Joint Mount Rd. Hd.	34	4	1	25-2450	Variable Swashplate	22	48	1
21-3050	Ball Joint Mount LH	34	32	1	25-2460	Plug - Hex. Hd.	22	28	2
21-3370	Cable - R.H. Brake	9	*	1	25-2470	Shim Pack	22	29	2
21-3380	Cable - L.H. Brake	9	15	1	25-2480	Valve Spring	22	44	1
21-3600	Foam - Support Tank	14	1	1	25-2490	Ball	22	9	2
21-3610	Foam - Support Tank	14	13	1	25-2500	Trunnion Shaft	22	43	1

\*Not Illustrated

# TORO PART NUMBER INDEX (Cont.)

Part No.	Description	Pg. Ref. No. No. Qty.	Part No.	Description	Pg. Ref. No. No. Qty.
25-2510	Washer - Flat	22 25 2	43-2600	Screw - Metric	29 6 3
25-2530	Headless Straight Pin	22 39 1	43-3320	Foam - Radiator	5 33 2
25-2550	Charge Pump Housing	22 34 1	43-3720	Collar Bearing	29 48 1
25-2570	Valve Spring	22 30 1	43-3780	Swivel - Cable Throttle	28 13 1
25-2580	Trunnion Shaft	22 26 1	43-3810	Tube Air Cleaner	33 7 1
25-2610	Accel. Valve Spring	22 16 1	43-3860	Shaft - Pivot P.T.O.	7 9 1
25-2630	Back Up Ring	22 14 1	43-4300	Trim - Rear Frame	2 32 2
25-2640	Valve Spring	22 8 2	43-5500	Pivot P.T.O.	7 31 1
25-2650	Check Valve Plug	22 6 2	43-5540	Shaft P.T.O.	7 43 1
25-2680	Gerotor Assembly	22 38 1	43-5550	Shaft - P.T.O. Actuator	7 32 1
25-3180	Check Valve Kit	22 11 2	43-5570	Arm - P.T.O. Actuator	7 38 1
25-3190	Charge Pump	22 40 1	43-5630	Yoke - P.T.O.	7 51 1
25-3210	Lip Seal	22 24 2	43-5930	Washer - Lock	29 17 3
25-8640	Screw - Machine	28 11 1	43-5930	Washer - Metric	5 4 2
26-6740	Temperature Reset Relay	3 13 1	43-6550	Snap Ring	15 21 1
27-1960	Hub - Engine	30 53 1	43-6710	Adjustment Shim .003	15 15 A/R
27-2360	Switch	3 15 1	43-6711	Adjustment Shim .005	15 16 A/R
27-6590	Spacer Rubber Coupling	20 22 2	43-6712	Adjustment Shim .010	15 17 A/R
27-6600	Spacer Rubber Coupling	20 20 6	43-6713	Adjustment Shim .030	15 18 A/R
27-7100	Air Cleaner Assembly	33 5 1	43-6750	Roller Bearing Cup	15 10 1
27-7110	Element Assembly	33 14 1	43-6760	Roller Bearing Cone	15 9 1
27-7120	Nut & Gasket Assembly	33 15 1	43-6800	Nut - Lock	17 18 8
27-7130	Clamp Assembly	33 17 1	43-6810	Torque - Spider	17 6 2
27-7140	Skirt - Baffle	33 16 1	43-6840	Lower Housing	16 34 1
27-7150	Cup Assembly	33 19 1	43-8600	Spring - Compression	6 11 1
27-7160	Decal - Instructions	33 12 1	43-8600	Spring - Compression	8 66 1
27-7170	Band Assembly	33 3 2	43-8610	Guide - Spring & Ball Seat	7 5 1
27-7180	Cap Assembly - Air Inlet	33 8 1	43-8610	Guide - Spring & Ball Seat	6 12 1
27-7290	Decal - Power Take Off	1 16 1	43-8620	Guide - Switch Pin	6 9 1
27-7310	Decal - Refueling	2 39 1	43-8620	Guide - Switch Pin	8 68 1
27-7320	Decal - Traction Pedal	1 1 1	43-8860	Plunger - Switch	6 10 1
27-7370	Brake Assembly P.T.O.	7 25 1	43-8860	Plunger - Switch	8 67 1
27-7490	Pedal - L.H. Brake	9 41 1	43-8870	Boot - Switch	6 1 1
27-7510	Pedal - R.H. Brake	9 42 1	43-8870	Boot - Switch	8 71 1
27-7570	Pad - Left Turn	9 38 1	43-9071	Assembly - Switch	6 * 1
27-7580	Pad - Right Turn	9 2 1	43-9071	Assembly - Switch	8 * 1
27-7590	Mount - Brake	9 34 1	43-9110	Tank - Fuel	14 12 1
27-7640	Shaft - Brake Latch	9 36 1	44-2210	Warning Light	3 30 1
27-7900	Screw - Adjusting	7 35 1	44-2230	Rubber Coupling	20 17 2
27-8550	Pedal - Parking Brake	9 45 1	46-2210	Shim - Front Pinion Bearing	15 22 A/R
27-9270	Mount - Brake Pivot Shaft	9 35 1	46-2211	Shim - Front Pinion Bearing	15 * A/R
28-0650	Flanged Axle Shaft	17 1 2	46-2212	Shim - Front Pinion Bearing	15 *22 A/R
28-0660	Screw - Cap, Hex. Hd.	17 22 8	46-2213	Shim - Front Pinion Bearing	15 * A/R
28-0670	Oil Seal	17 8 2	46-2214	Shim - Front Pinion Bearing	15 * A/R
28-0680	Brake Drum	17 13 2	46-2215	Shim - Front Pinion Bearing	15 *A/R/
28-1280	Boot - Cable	1 18 1	46-2216	Shim - Front Pinion Bearing	15 * A/R
28-5220	Wheel - Friction	9 25 1	46-2220	Shim - Front Pinion Bearing	15 * A/R
28-9570	Pump Lever	20 51 1	46-2221	Shim - Front Pinion Bearing	15 * A/R
29-6120	Pump Plate	20 3 1	46-2222	Shim - Front Pinion Bearing	15 * A/R
29-6150	Leaf Spring	20 46 1	46-2223	Shim - Front Pinion Bearing	15 * A/R
29-6163	Micro Switch	20 2 1	46-2224	Shim - Front Pinion Bearing	15 * A/R
29-6170	Extended Leaf Spring	20 7 1	46-2225	Shim - Front Pinion Bearing	15 * A/R
31-0390	Disc - Friction	11 31 1	46-2226	Shim - Front Pinion Bearing	15 * A/R
33-4380	Pump Hub	20 14 1	46-2410	Shim - Front Pinion Bearing	15 * A/R
37-9550	Strap - Tank Fuel	14 4 1	46-2411	Shim - Front Pinion Bearing	16 *22 A/R
37-9650	Trim	1 26 1	46-2412	Shim - Front Pinion Bearing	16 * A/R
38-1650	Fuel Gauge	3 8 1	46-2413	Shim - Front Pinion Bearing	16 * A/R
38-1660	Ammeter	3 10 1	46-2414	Shim - Front Pinion Bearing	16 * A/R
38-1670	Mounting Clamp	3 7 2	46-2415	Shim - Front Pinion Bearing	16 * A/R
38-3400	Guard - Rubber	24 5 1	46-2416	Shim - Front Pinion Bearing	16 * A/R
38-3400	Guard - Rubber	21 60 1	46-2420	Shim - Front Pinion Bearing	16 * A/R
38-4550	Instrument Cover	1 28 1	46-2421	Shim - Front Pinion Bearing	16 * A/R
38-4600	Bar - Frame L.H.	5 23 1	46-2422	Shim - Front Pinion Bearing	16 * A/R
39-8020	Trim-Instrument Cover	1 31 1	46-2423	Shim - Front Pinion Bearing	16 * A/R
41-8760	Gasket - Transmission	20 45 1	46-2424	Shim - Front Pinion Bearing	16 * A/R
42-6080	Shim - Axle	14 26 A/R	46-2425	Shim - Front Pinion Bearing	16 *22 A/R
42-9500	Screw - Metric	29 3 4	46-2426	Shim - Front Pinion Bearing	16 * A/R
42-9530	Screw - Metric	29 29 3	46-6390	Drive Coupling	20 18 1
42-9600	Washer - Lock	29 7 8	46-8400	Needle Bearing	23 53 2
42-9850	Washer - Lock	29 4 8	46-8410	Motor Shaft	23 58 1
43-1710	Valve Assembly	24 13 1	46-8810	Stop - Leaf Spring	21 56 1
43-1730	Body	27 7 1	46-8840	Spring Lift Arm	34 14 1

\*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.
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
48-7730	Screw - Metric	29	5	1	67-1710	Decal - Caution	1	27	1
48-7780	Screw - Metric	29	33	2	67-1720	Decal - Torque	2	41	2
48-7800	Screw - Metric	29	8	3	67-1750	Bushing - Axle	18	21	6
48-7890	Nut	30	59	1	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
48-8030	Washer - Flat	28	31	1	67-5480	Shaft	26	2	1
48-8030	Washer - Flat	29	30	4	67-5500	Repair Kit	26	3	1
48-9470	Screw - Metric	29	27	3	67-8020	Pump Shaft	22	20	1
49-8520	Kit - Relief, Implement	23	63	1	67-8050	Needle Bearing	22	35	1
53-4420	Decal - Fuel	2	38	1	67-8190	Bracket - Engine Support	6	20	2
53-4430	Decal - Oil	14	39	1	67-8240	Bracket - Throttle	28	23	1
53-9480	Washer - Snubber	31	21	2	67-8250	Rod - Throttle	28	16	1
53-9480	Washer - Snubber	29	35	2	67-8260	Mount - Engine	29	37	1
53-9660	V-Belt Torque Team	7	12	1	67-8310	Mount - Engine	29	13	1
53-9680	Mount - Engine	31	20	2	67-8340	Bar - Spacer	29	16	1
53-9680	Mount - Engine	29	46	2	67-8350	Bracket - Guide Belt	29	15	1
54-7890	Pump Housing	22	22	1	67-8360	Governor	28	14	1
54-9040	Yoke - End (Split)	8	63	1	67-8370	Hub	32	4	1
54-9180	Kit - U-Joint	8	58	2	67-8380	Pulley - Fan	28	7	1
54-9290	Bracket	20	29	2	67-8390	Spacer - Fan	28	6	1
54-9300	Cover	20	28	1	67-8420	Bracket - Muffler	31	15	1
55-3574	Cap - Tank Fuel	14	11	1	67-8440	Plate - Support Engine	31	25	1
55-4300	Warning Decal	34	12	3	67-8460	Pulley - Engine	29	42	1
55-7290	Battery (Group Size 24)	1	11	1	67-8480	Support - Engine Rear	31	18	1
56-2460	Washer	18	45	A/R	67-8510	Belt - Fan	28	5	1
56-7980	Sleeve - Protective	5	56	1	67-8540	Cable - Ground	4	4	1
59-9740	Latch - Draw	5	20	1	67-8550	Engine Temperature Gauge	3	11	1
60-9760	Nut	25	7	1	67-8560	Throttle & Choke Control	3	31	2
60-9760	Nut - Hex	26	7	1	67-8590	Radiator Assembly	5	37	1
60-9770	Piston	25	6	1	67-8640	Shroud - Radiator	5	17	1
60-9780	Head	25	5	1	67-8660	Hose - Radiator Lower	5	21	1
61-4960	Repair Kit	25	3	1	67-8690	Support - Column	11	7	1
61-4980	Shaft - w/Clevis	25	2	1	67-8890	Arm - Idler	29	12	1
61-4990	Ring - Retaining	25	4	1	67-8900	Spacer - Alternator	29	38	1
62-3010	Bracket - R.H.	6	15	1	67-8910	Spacer - Pulley	29	19	1
62-3020	Bracket - L.H.	6	17	1	67-8920	Shield - Heat	28	27	1
62-3290	Shaft - Slip Yoke	8	60	1	67-8940	Connector - Outlet	31	5	1
62-3790	Tube - Slip Yoke	8	62	1	67-8960	Weight - Axle Rear	18	1	1
62-3800	Yoke - End	8	57	1	67-9010	Spacer - Alternator	29	31	1
62-3820	Fitting - Grease	8	59	2	67-9030	Grille - Radiator	5	38	1
62-4250	Cylinder - Hydraulic	24	21	1	67-9080	Motor Housing	22	4	1
62-4260	Drive Shaft Assembly	7	44	1	67-9090	Plug	22	42	1
62-6840	Sender - Fuel Level	14	6	1	67-9100	Gasket	22	10	1
62-7020	Wheel & Tire Assembly	14	*	2	67-9120	Muffler	31	16	1
62-7650	Gasket - Tank Fuel	14	5	1	67-9130	Pipe - Muffler	31	11	1
63-1400	Rod - Belt	30	54	1	67-9150	Support - Governor	28	30	1
63-7590	Relay	3	23	1	67-9800	Bumper	34	37	3
63-7630	Hose - Vent Fuel	14	10	1	68-5140	Cap - Wheel, Steering	11	46	1
63-8140	Pulley - Idler	29	11	1	68-5370	Decal - Toro	11	1	1
63-8360	Key	3	12	1	68-8610	Fender - Extension	2	42	1
63-8960	Hose Assembly	5	32	1	68-8660	Elbow	20	31	1
63-8970	Hose - Trans. to Steering	11	14	1	68-8990	Head - Filter	20	33	1
63-8980	Hose - Aux. to Valve	11	22	1	68-9160	Bracket	5	29	1
63-8990	Hose	24	15	1	68-9650	Hose - Axle	20	37	1
63-8990	Hose	11	23	1	68-9710	Hose - Steering Cylinder	5	55	2
63-9010	Hose Assembly	5	24	1	68-9720	Hose - Cylinder to Steering	11	19	1
63-9260	Manifold - Valve	24	17	1	68-9730	Hose - Steering to Cylinder	11	18	1
66-1250	Cylinder - Hydraulic	24	*	Opt.	68-9760	Base - Tank Fuel	14	40	1
66-1930	Nut - Lock	19	6	1	70-1380	Sleeve - Protective	11	17	1
66-1940	Piston	19	5	1	70-1390	Sleeve - Protective	11	15	1
66-2990	Cup - Spindle	18	50	2	70-1630	Hose - Radiator Upper	5	14	1
66-3160	Screw - Cap, Hex Hd.	28	32	1	70-1660	Bracket - E.S.C.	5	42	1
66-3240	Cap - Pressure Radiator	5	6	1	70-1670	Hose - Heater	31	4	1
66-6140	Decal - Toro	5	9	1	70-1690	Adapter - Gauge Temp.	31	2	1
66-6370	Lift Arm	34	1	1	70-1790	Strip - Foam Sealing	5	34	1
66-6390	Decal - Caution	1	4	1	70-1890	Guard - Flywheel	6	18	1
66-7150	Push Arm RH	34	9	1	70-1910	Hose - Vac. Advance	29	25	1
66-9760	Nut - Hex.	11	2	1	70-1920	Hose - Vacuum	29	20	1
66-9970	Spring Kit	12	*	1	70-2040	Guard - Trim	28	29	1

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Part No.	Description	Pg. Ref. No. No. Qty.	Part No.	Description	Pg. Ref. No. No. Qty.
70-2050	Hose - Breather	31 8 1	86-9370	Panel - Instrument	3 1 1
70-2060	Cover - Governor	32 8 1	86-9400	Support - Radiator	5 40 1
70-2070	Lever - Speed Adjusting	32 21 1	86-9410	Support - Seat	5 52 1
70-2080	Body	32 36 1	86-9580	Upper Housing	16 26 1
70-2090	Stud - Pivot Lever	32 22 1	86-9600	Front Axle Assembly	14 27 1
70-2100	Sleeve & Bearing Assy.	32 18 1	88-0070	Floor Plate	2 47 1
70-2110	Main Shaft & Yoke	32 17 1	88-0470	Tube - Pedal Spacer	10 49 1
70-2120	Spacer	32 43 1	88-0530	Pedal - Traction	9 18 1
70-2130	Clamp - Bearing to Cover	32 13 1	88-1640	Pin - Traction Pedal	9 20 1
70-2140	Bearing - Front	32 12 1	88-1650	Shaft - Traction Pedal	9 22 1
70-2150	Flyweight	32 15 2	88-1670	Bracket - Pivot	9 23 1
70-2160	Bracket - Speed Stop	32 2 1	88-1680	Bracket - Footrest	9 48 1
70-2200	Decal - Toro	1 2 1	88-1710	Footrest	10 50 1
70-2620	Elbow - 90	20 38 1	88-1720	Pad - Footrest	10 51 1
71-4540	Washer - Thrust	18 7 1	88-1730	Pad - Front Pedal	9 47 1
71-4770	Screw	32 45 2	88-1740	Pad - Rear Pedal	9 19 1
71-4780	Seal - Oil Rocker Shaft	32 27 1	88-8220	By Pass Valve	22 15 1
72-3690	Fender	1 9 2	92-1661	Hose - Fuel	14 44 1
72-3750	Roller Bearing	22 2 1	92-1662	Hose - Fuel	14 22 1
72-4320	Switch - Ball	7 3 1	92-1773	Screw - Cap, Hex. Hd.	15 11 4
72-4320	Switch - Ball	6 14 1	92-1774	Oil Seal	17 2 2
72-5850	Pin - Force Idle	32 25 1	92-4058	Arm - P.T.O.	7 30 1
72-5860	Spring - Governor	32 24 1	92-4060	Fork P.T.O.	7 24 1
72-5860	Spring - Governor	32 24 1	92-4848	Gear & Pinion Assembly	16 * 1
72-5870	Eyebolt	32 33 1	92-4903	Assy. - Upper Hsg., 2WD	16 * 1
72-5880	Throttle Lever Assy.	32 32 1	92-5723	Bushing - P.T.O. Fork	7 23 2
72-5890	Shaft - Rocker	32 30 1	92-5727	Screw - Cap, Hex. Hd.	7 22 2
72-5910	Bumper Screw Assy.	32 34 1	92-5838	Ball Joint	18 10 2
72-5920	Screw	32 3 1	92-6588	Gland	19 3 1
72-5930	Screw	32 26 1	92-6593	Seal Kit	19 2 1
72-5940	Bearing - Needle	32 20 1	92-7308	Valve - Steering, Power	11 25 1
72-9420	Vent Tube Assembly	16 39 1	92-7310	Bolt - Special	12 36 4
74-0720	Tube - Manual	6 2 1	92-7314	Assembly - Column	12 * 1
75-0560	Steering Wheel Assembly	11 3 1	92-7315	Seal	12 28 1
75-9890	Washer - Shim	8 75 A/R	92-7316	Nut - Push On	12 38 4
75-9900	Support - Engine Front	29 9 1	92-7317	Foam	12 39 1
76-1900	O-Ring	22 18 2	92-7800	Cover - Battery Access	1 30 1
76-8750	Decal - Warning	5 13 1	92-7801	Shield - Cover, Battery	2 52 1
77-3100	Decal - Warning	5 15 2	92-7802	Decal - Starting Instructions	1 29 1
77-3120	Bracket - Mount, Column	11 9 1	92-7816	Axle - Rear	18 20 1
80-2880	Bracket - Steering, Tilt	11 40 1	92-7821	Pivot - Steering	18 38 1
80-2930	Washer	11 39 1	92-7828	Cylinder - Hydraulic	19 * 1
80-2940	Plate - Pivot	11 29 1	92-7828	Cylinder - Hydraulic	18 11 1
80-2960	Spacer - Tower	11 10 2	92-7833	Hose - Valve to Cylinder	24 19 1
80-2980	Boss - Pin	11 32 1	92-7834	Hose	24 22 1
80-3330	Gasket	33 18 1	92-7841	Support - Axle Rear	18 5 1
82-5590	Hose - Air Cleaner	33 9 1	92-7843	Pin - Axle Rear	18 47 1
82-8650	Clamp - Half	11 37 1	92-8775	Gasket Kit - Liquid	17 * 2
82-8660	Cover - Tower	11 5 1	92-8776	Plug	23 61 4
82-8670	Rod - Brake Latch	9 10 1	92-8777	O-Ring	23 62 2
82-8760	Elbow	11 12 1	92-8918	Center Section	23 55 1
82-8770	Elbow	11 21 1	92-8947	Transmission - Inline	20 42 1
82-8930	Decal - Parking Brake	9 12 1	92-9785	Belt - Alternator	29 40 1
82-8940	Decal - Steering, Tilt	11 44 1	93-0105	Wire - Harness Assembly	4 2 1
82-8970	Decal - Coolant Engine	5 2 1	93-0307	Retainer - Nut, Lock	18 43 2
82-8980	Frame	1 3 1	93-0309	Washer - Tab	18 35 2
82-9010	Disc - Friction	11 38 1	93-0312	Washer	23 60 4
83-7260	Relief Valve Cone	22 31 2	93-1353	Lever - Steering, Tilt	11 34 1
84-4890	Assembly - Drive Shaft	8 * 1	93-3183	Tool Box	2 40 1
84-5330	Bracket - Hood Prop	5 50 1	93-3184	Cover	2 49 1
84-5380	Strap - Hood Prop	5 49 1	93-3189	Decal - Groundsmaster 345	5 8 2
84-8500	Lever - P.T.O.	7 2 1	93-3198	Spindle Assy. L.H.	18 23 1
84-8520	Bracket - P.T.O. Switch	7 6 1	93-3199	Spindle Assembly R.H.	18 46 1
84-8600	Shoe & Lining Assembly	17 9 1	93-3769	Clevis Pin	7 26 1
85-7470	Decal - Instrument Panel	3 2 1	93-4132	O-Ring	23 54 2
86-7040	Rod - Seat Prop	6 6 1	93-4133	Lip Seal	22 36 1
86-7050	Bracket - Switch Actuator	8 73 1	212-93	Wire Clip	8 53 1
86-7060	Bracket - Hood Hold Down	5 54 1	217-106	Wheel	18 30 2
86-7220	Gear - Transmission Output	20 44 1	217-116	Rim - 23 x 10.5 x 12	14 * 2
86-7230	Spur-Gear	15 14 1	217-117	Rim	14 29 2
86-7921	Cover - Spark Plug Wire	31 40 4	218-461	Nut - Jam	6 7 2
86-8100	Ball Joint Assembly	34 33 2	218-461	Nut - Jam	8 70 2

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Part No.	Description	Pg. Ref.			Part No.	Description	Pg. Ref.		
		No.	No.	Qty.			No.	No.	Qty.
218-515	Mounting Bracket	3	22	1	256-121	Bushing - Thrust	18	22	2
218-516	Lens	3	4	1	256-126	Bushing	34	16	6
218-539	Clamp	3	9	1	256-156	Bushing	9	6	5
2112-6	Clamp - Muffler	31	12	1	256-242	Bushing	18	44	2
231-90	Tube - Inner (Optional)	14	*	2	283-10	Pin	34	40	1
231-95	Tire - 23 x 10.5 x 12	14	*	2	283-17	Pin	24	26	1
231-101	Tire	14	28	2	283-42	Clevis Pin	7	7	1
231-105	Tire	18	28	2	283-58	Pin - Clevis	9	14	2
232-27	Stem - Valve - 23 x 10.5 x 12	14	*	2	283-76	Pin - Lynch	5	53	1
232-31	Stem - Valve	14	31	2	285-17	Pipe Plug	22	12	2
232-31	Stem - Valve w/Cap	18	34	2	285-17	Plug - Pipe	32	9	2
233-17	Knob	9	11	1	289-37	Nipple - Pipe	14	37	1
233-21	Knob	24	3	1	2811-9	Elbow - Street	14	36	1
233-35	Knob - Control	3	3	2	302-2	Grease Fitting	7	39	1
237-7	Seal - O-Ring	6	8	1	302-5	Fitting	18	19	3
237-7	Seal - O-Ring	8	69	1	302-5	Fitting - Grease	9	44	2
237-22	O-Ring	24	29	2	302-5	Grease Fitting	34	13	1
237-22	O-Ring	22	13	1	302-5	Grease Fitting	34	34	2
237-22	O-Ring	18	14	1	302-10	Fitting - Grease	7	10	1
237-22	O-Ring	11	20	3	302-10	Fitting - Grease	29	47	1
237-22	O-Ring	21	58	1	302-11	Fitting	18	15	3
237-30	O-Ring	24	30	2	302-33	Grease Fitting	34	28	2
237-30	O-Ring	11	13	3	302-55	Fitting - Grease	25	1	2
237-30	O-Ring	21	59	1	302-55	Grease Fitting	26	1	2
237-30	Seal - O-Ring	7	4	1	302-58	Fitting - Grease	8	61	1
237-30	Seal - O-Ring	6	13	1	304-46	Draincock	5	22	1
237-42	O-Ring	24	31	2	304-73	Fitting - Straight Barb	24	23	1
237-42	O-Ring	27	2	2	304-75	Fitting - 90 Barb	24	20	1
237-42	O-Ring	21	57	2	321-2	Screw - Cap, Hex. Hd.	20	26	2
237-78	O-Ring	24	32	2	321-4	Screw - Cap Hex. Hd.	8	72	1
237-78	O-Ring	18	12	1	321-4	Screw - Cap, Hex. Hd.	28	18	1
237-80	O-Ring	20	30	1	321-4	Screw - Cap, Hex. Hd.	20	27	2
237-80	O-Ring	22	33	1	321-6	Screw - Cap Hex Hd.	14	25	1
237-81	O-Ring	20	32	3	321-6	Screw - Cap Hex. Hd.	5	51	1
237-86	O-Ring	22	7	4	321-6	Screw - Cap, Hex Hd.	28	24	2
237-95	O-Ring	22	41	1	321-6	Screw - Cap, Hex. Hd.	20	47	2
241-119	Cap - Dust	18	32	2	321-23	Screw - Cap, Hex. Hd.	24	14	5
242-34	Axle Flange Stud	17	11	10	321-39	Screw - Cap, Hex Hd.	28	28	2
242-50	Nut - Wheel	18	31	10	321-39	Screw - Cap, Hex Hd.	5	45	2
249-21	Hook Clamp	1	14	3	322-3	Screw - Cap, Hex Hd.	5	57	1
249-40	Keeper	5	11	1	322-3	Screw - Cap, Hex. Hd.	33	1	4
2412-3	Clamp - Hose	5	7	4	322-4	Screw - Cap, Hex. Hd.	22	37	4
2412-6	Clamp	14	9	1	322-4	Screw - Cap, Hex. Hd.	11	43	1
2412-31	Clamp - Cable	28	20	1	322-5	Screw - Cap, Hex. Hd.	3	17	2
2412-34	Clamp - Hose	20	36	2	322-6	Screw - Cap, Hex. Hd.	20	21	6
2412-36	Clamp	11	24	2	322-8	Screw - Cap, Hex. Hd.	20	25	2
2412-36	Clamp - Hose	24	16	1	322-9	Screw - Cap Hex. Hd.	8	65	2
2412-39	Clamp	1	24	2	322-12	Screw - Cap, Hex Hd.	28	1	4
2412-39	Clamp	5	35	3	322-17	Screw - Cap, Hex. Hd.	20	8	1
2412-39	Clamp - R	31	10	1	323-6	Screw - Cap, Hex. Hd.	11	27	2
2412-42	Hose Clamp	33	10	2	323-6	Screw - Cap Hex. Hd.	16	46	1
2412-74	Clamp	2	34	2	323-7	Screw - Cap, Hex. Hd.	20	39	2
2412-96	Clamp - R	14	21	1	323-13	Screw - Cap, Hex. Hd.	9	32	2
2412-108	Clamp	31	9	2	323-14	Screw - Cap, Hex Hd.	5	30	3
2412-108	Clamp	14	23	3	323-56	Screw - Cap, Hex. Hd.	22	3	4
2412-108	Clamp Hose	24	28	2	324-4	Capscrew	34	19	2
2412-119	Clamp - Hose	31	3	2	324-11	Capscrew	34	22	2
2412-133	R-Clamp	6	3	2	324-11	Screw - Cap Hex. Hd.	29	34	2
251-8	Ball Bearing	22	46	1	324-11	Screw - Cap, Hex Hd.	31	22	2
251-234	Lock Collar	7	41	2	329-3	Screw - Cap, Hex. Hd.	32	16	2
251-252	Ball Bearing	7	40	2	3210-7	Screw - Cap, Hex. Hd.	20	6	1
251-252	Bearing	29	49	1	3210-7	Screw - Cap, Hex. Hd.	15	19	8
251-259	Ball Bearing	20	5	1	3217-5	Nut	28	22	1
252-82	Needle Bearing	22	23	2	3217-6	Nut	1	10	2
253-129	Closure	18	36	2	3217-6	Nut	33	11	2
254-65	Cone - Tapered Bearing	16	28	2	3217-6	Nut	3	19	2
254-66	Cup - Tapered Bearing	16	27	2	3217-7	Nut - Hex	9	28	2
254-72	Cup - Bearing	18	26	4	3217-8	Full Nut	34	8	2
254-90	Bearing Cup	16	24	1	3217-9	Nut	16	42	2
254-91	Bearing Cone	16	23	1	3217-16	Nut	20	48	2
254-94	Cone - Bearing	18	27	4	3217-26	Nut - Hex.	3	21	1
256-10	Bushing	9	43	4	3217-27	Nut - Hex.	3	34	2

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Part No.	Description	Pg. Ref. No. No. Qty.	Part No.	Description	Pg. Ref. No. No. Qty.
3217-29	Nut - Hex.	3 33 6	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	16 43 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 4	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	3256-41	Washer - Flat	7 36 4
3220-5	Nut - Jam R.H. Thread	18 40 2	3256-46	Washer - Flat	11 26 2
3220-6	Nut	12 27 1	3256-56	Washer - Flat	28 25 1
3220-6	Nut - Jam	18 37 4	3257-5	Key - Woodruff	7 11 3
3220-7	Nut - Jam	18 29 2	3257-32	Woodruff Key	20 15 1
3220-12	Nut - Jam L.H. Thread	18 * 2	3257-32	Woodruff Key	22 21 1
3229-1	Bolt - Carriage	2 36 5	3257-33	Key - Woodruff	29 43 1
3230-1	Bolt - Carriage	10 52 2	3258-19	Round Hd. Machine Screw	33 4 2
3230-2	Bolt - Carriage	14 14 3	3269-10	Washer	5 46 2
3231-21	Bolt - Carriage	9 31 2	3269-13	Rivet	5 12 2
3231-22	Bolt - Carriage	29 14 2	3272-5	Pin - Cotter	9 7 3
3231-28	Bolt - Carriage	29 10 1	3272-6	Cotter Pin	24 8 1
3234-1	Screw - Cap, Flange Hd.	5 18 2	3272-6	Pin - Cotter	9 21 6
3234-5	Screw - Lock, Flange Hd.	28 26 1	3272-10	Cotter Pin	7 8 1
3234-6	Screw - Cap Flange Hd.	6 19 2	3272-10	Cotter Pin	34 38 3
3234-11	Capscrew w/Locking Flange	1 23 5	3272-10	Cotter Pin	21 54 1
3234-11	Screw - Cap Flange Hd.	6 21 6	3272-11	Cotter Pin	34 2 2
3234-11	Screw - Cap, Hex. Hd.	9 39 3	3272-11	Pin - Cotter	7 28 1
3234-11	Screw - Flange Head	14 35 2	3272-13	Pin - Cotter	18 33 2
3234-11	Screw - Flange Lock	29 36 4	3272-22	Pin - Cotter	7 17 2
3234-11	Screw - Flange Lock	31 39 4	3272-24	Cotter Pin	34 10 1
3234-11	Screw - Lock, Flange Hd.	28 33 2	3272-33	Cotter Pin	34 17 1
3234-12	Screw - Flange Hex. Hd.	1 7 4	3274-47	Screw - Flat Hd. Socket	9 33 1
3234-13	Screw	18 49 2	3290-134	Screw Machine Hex. Hd.	3 25 4
3234-14	Screw - Cap, Hex. Hd.	2 43 2	3290-144	Screw - Machine	1 15 6
3234-14	Screw - Flange, Hex Hd.	5 19 6	3290-224	Washer - Pyramidal	30 55 1
3234-17	Screw - Cap Flange Hd.	6 16 4	3290-271	Rivet	5 10 4
3234-17	Screw - Cap, Hex. Hd.	11 8 2	3290-357	Nut - Lock, Flange	29 2 12
3234-18	Screw - Hex. Hd. Flange	30 56 1	3290-357	Nut - Lock, Flange	31 14 5
3234-25	Screw - Hex. Flange Hd.	2 48 4	3290-357	Nut - Lock, Flange	28 15 2
3234-32	Screw - Hex Hd. Flange	18 3 6	3290-357	Nut - Lock, Flange	6 22 6
3241-5	Square Hd. Set Screw	20 16 2	3290-357	Nut - Lock, Flange	1 25 5
3245-1	Screw - Set	7 46 2	3290-360	Screw Machine Hex. Hd.	3 26 1
3245-5	Screw - Set	30 52 2	3290-378	Cable Tie	1 21 2
3246-3	Screw - Set	7 29 4	3290-379	Cable - Tie	30 58 3
3249-11	Screw - Round Hd. Mach.	20 1 2	3290-379	Cable Tie	3 24 1
3250-29	Screw - Pan Hd.	29 22 1	3290-379	Tie - Cable	11 16 3
3250-29	Screw - Pan Hd.	2 53 3	3290-379	Tie - Cable	5 31 4
3253-3	Washer - Lock	14 2 2	3296-2	Nut - Lock	1 17 6
3253-3	Washer - Lock	28 21 1	3296-5	Nut - Lock	32 23 1
3253-4	Washer - Lock	28 2 4	3296-6	Nut - Lock	7 34 1
3253-4	Washer - Lock	1 8 2	3296-12	Nut - Lock	3 29 5
3253-6	Lockwasher	34 7 2	3296-16	Nut - Lock	5 47 1
3253-12	Washer - Lock	28 17 1	3296-16	Nut - Lock	8 74 1
3253-17	Washer - Lock	14 41 1	3296-20	Nut - Lock	28 12 1
3253-21	Washer - Lock	9 29 4	3296-20	Nut - Lock	11 30 4
3253-21	Washer - Lock	14 34 2	3296-28	Nut - Lock	7 27 1
3253-21	Washer - Lock	16 45 1	3296-29	Nut - Lock	20 4 1
3253-21	Washer - Lock	20 40 2	3296-29	Nut - Lock	11 36 2
3253-21	Washer - Lock	8 55 4	3296-29	Nut - Lock	8 64 2
3254-1	Washer - Lock	3 6 6	3296-42	Nut - Lock	20 10 6
3254-2	Washer - Lock Internal	2 50 1	3296-42	Nut - Lock	24 10 5
3254-2	Washer - Lock, Int. Tooth	3 18 6	3296-54	Nut - Lock	2 54 3
3254-7	Washer - Lock	7 15 1	32103-2	Nut - Wing	1 13 2
3254-9	Washer - Lock	20 49 2	32103-2	Nut - Wing	5 41 2
3255-5	Washer - Lock	3 20 1	32104-6	Screw - Hex. Hd. Tapping	8 56 4
3255-7	Washer - Lock	20 50 3	32104-96	Screw - Cap, Hex Hd.	14 3 1
3255-8	Washer - Lock	15 2 8	32104-116	Screw - Flange, Hex Hd.	5 16 4

\*Not Illustrated

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32120-8	Retaining Ring	22	1	32144-10	Screw - Hex. Thd. Form	11	6
32120-11	Retaining Ring	22	47	32144-10	Screw - Self Tapping	24	4
32120-15	Retaining Ring	22	45	32144-10	Screw - Self Tapping	6	4
32120-22	Ring - Retaining	7	42	32144-10	Screw - Self Tapping	2	44
32120-22	Ring - Retaining Int.	29	50	32144-14	Screw - Self Tapping	18	48
32120-69	Ring - Retaining Ext.	30	51	32144-21	Screw	11	45
32120-72	Ring - Retaining External	20	43	32144-53	Screw - Thread Forming	14	7
32121-6	Roll Pin	20	11	32144-67	Screw - Thread Forming	14	32
32121-9	Pin - Roll	7	49	32146-20	Nut - Lock	18	6
32121-15	Roll Pin	16	30	32149-2	Nut	9	37
32121-16	Pin - Roll	9	24	32151-36	Ring - Retaining	18	16
32121-24	Roll Pin	21	55	32151-46	Retaining Ring	22	27
32121-34	Pin - Roll	7	45	32151-104	Ring - Retaining	18	9
32121-51	Pin - Hub To Shaft	32	44	32152-1	Nut - Lock	20	19
32121-73	Pin Slotted Spring	24	9	32153-2	Nut - Hex.	11	11
32121-84	Roll Pin	34	25	32153-2	Nut - Lock	9	30
32121-91	Coil Spring Pin	22	49	32153-2	Nut - Lock	30	57
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32128-20	Nut - Flange	14	33	340-70	Nut - Lock, Bulkhead	5	28
32128-20	Nut - Flange	11	41	340-71	Union - Bulkhead	5	27
32128-20	Nut - Flange Head	5	26	340-77	Elbow	20	12
32128-20	Nut - Lock, Flange	2	35	340-97	Fitting - 90_	24	25
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32128-21	Nut - Flange Head	5	25	340-99	Elbow	20	13
32128-21	Nut - Lock, Flange	1	6	340-110	Elbow - 90_	24	24
32128-23	Nut - Lock, Flange	18	2	340-112	Elbow 90_	24	18
32128-23	Nut - Lock, Flange	29	44	353-508	Plug - Drain	20	41
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32128-33	Nut - Lock, Flange	28	8	353-536	Fitting - Tank Fuel	14	8
32128-33	Nut - Lock, Flange	5	39	353-550	Plug - Hex. Hd.	22	19
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32136-2	Nut	34	3				

\*Not Illustrated

## 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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