

# MASTER PARTS MANUAL

## GARDEN TRACTORS

### MODELS:

T1228AR  
T1228BR  
T4328AR  
T4328BR  
T6328AR  
T6328BR  
T8328AR  
T8328BR  
T8338AR  
T9329AR  
T9329BR

*18 cv*

LAWN AND GARDEN  
POWER EQUIPMENT

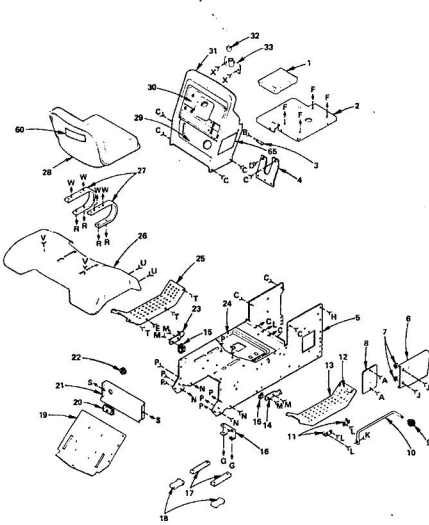
**ROPER** SALES CORP.

1905 WEST COURT STREET  
KANKAKEE, ILLINOIS 60901

PRICE \$2.00  
FEBRUARY 1, 1979

### REPAIR PARTS

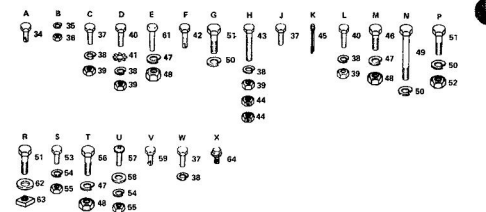
ROPER 11 H.P. GARDEN TRACTOR-MODEL NUMBER T1228BR  
CHASSIS, FENDER & DASHBOARD



### REPAIR PARTS

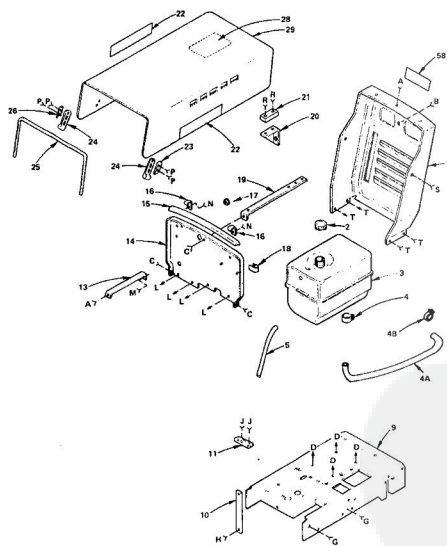
ROPER 11 H.P. GARDEN TRACTOR-MODEL NUMBER T1228BR  
CHASSIS, FENDER & DASHBOARD

KEY NO.	PART NO.	DESCRIPTION	KEY NO.	PART NO.	DESCRIPTION
1	8855R	Battery Tray	37	3009P	*Hex Bolt 5/16 - 18 UNC x 5/8
2	8737R	Tank & Battery Support	38	1003P	*Lockwasher 5/16
3	8753R	Hood Latch Pin	39	504P	*Hex Nut 5/16 - 18 UNC
4	8792R	Tank & Battery Support Brace	40	3016P	*Hex Bolt 5/16 - 18 UNC x 3/4
5	8747R	Chassis Channel	41	1406P	*Fast Tooth Lockwasher 5/16
6	8791R	Engine Pulley Cover	42	5503P	*Hex Head Thread Cutting Screw 5/16 - 28 UNC x 3/4 Type 23
7	8916R	Nut Retainer	43	3373P	*Hex Bolt 5/16 - 18 UNC x 1 - 1/2 Full Thd.
8	9800R	Channel Access Cover	44	1085H	*Locknut 5/16
9	8594H	Control Knob	45	2811P	*Cotter Pin 3/16 x 1
10	8756R	Range Shift Rod	46	2022P	*Hex Bolt 3/8 - 16 UNC x 7/8
11	8819R	Range Shift Rod Bracket	47	1005P	*Lockwasher 3/8
12	8900R	Decal - Attachment Clutch	48	5011P	*Hex Bolt 7/16 - 14 UNC x 2 - 1/4
13	8646R	Foot Rest - R.H.	49	3034P	*Lockwasher 7/16
14	6236-37	Suspension Arm Bracket Weldment - R.H.	50	1001P	*Hex Bolt 7/16 - 14 UNC x 1
15	2751R	Clip - Fuel Line	51	5007P	*Lockwasher 1/4
16	8820R	Terminal Bracket	52	500P	*Hex Nut 1/4 - 20 UNC x 1/2
17	158J	Seat Spring Lock Plate	53	3114P	*Lockwasher 1/4
18	9246R	Terminal Spacer	54	1002P	*Hex Nut 1/4 - 20 UNC
19	673A95	Drawer Assembly	55	503P	*Hex Bolt 3/8 - 16 UNC x 1
20	5017R	Roller	56	3023P	*Cross Recess Truss Head Machine Screw 1/4 - 20 UNC x 5/8
21	8782R	Chassis Channel Cover	57	3589P	*Washer 9/32 x 5/8 x 1/6 Ga.
22	3807R	Universal Bushing	58	1500P	*Hex Head Thread Cutting Screw 5/16 - 18 UNC x 1/2 Type 23
23	673A38	Suspension Arm Bracket Weldment - L.H.	59	5000P	*Decal - Roper
24	8888R	Decal - Shift Pattern	60	2451P	*Hex Bolt 3/8 - 16 UNC x 3/4
25	8841R	Foot Rest - L.H.	61	3021P	*Washer 8/32 x 5/16 x 1/8 Ga.
26	8502R	Fender	62	1544P	*Square Nut 7/16 - 14 UNC
27	8168R	Seat Spring	63	568P	*Hex Washer 1/4 - 20 UNC
28	2214J	Seat	64	5906P	*Decal - 11 H.P.
29	195J	Decal - Lower Dashboard	65	242J	*Washer - Fast 1/8
30	196J	Decal - Upper Dashboard	66	1722J	*Owners Manual
31	163J	Dashboard	---	---	*STANDARD HARDWARE-PURCHASE LOCALLY
32	9038R	Bearing			
33	673A56	Steering Bracket & Bearing (Inc. Key No. 12)			
34	5566P	*Hex Head Thread Cutting Screw 1/4 - 20 UNC x 1/2 Type 23			
35	1006P	*Lockwasher No. 10			
36	506P	*Hex Nut No. 10 - 24 UNC			



### REPAIR PARTS

ROPER 11 H.P. GARDEN TRACTOR-MODEL NUMBER T1228BR  
ENGINE MOUNT, HOOD & GRILL



### REPAIR PARTS

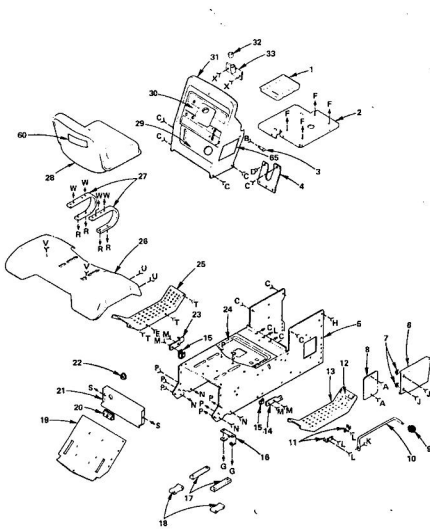
ROPER 11 H.P. GARDEN TRACTOR-MODEL NUMBER T1228BR  
ENGINE MOUNT, HOOD & GRILL

KEY NO.	PART NO.	DESCRIPTION	KEY NO.	PART NO.	DESCRIPTION
1	1647J	Grill	32	1002P	*Lockwasher 1/4
2	7971R	Fuel Tank Cap	33	503P	*Hex Nut 1/4 - 20 UNC
3	36J	Fuel Tank	34	3009P	*Hex Bolt 5/16 - 18 UNC x 5/8
4	9872R	Hose Clamp	35	1003P	*Lockwasher 5/16
4A	8644R	Fuel Line	36	504P	*Hex Bolt 5/16 - 18 UNC
4B	6526R	Fuel Line Clamp	43	3034P	*Hex Bolt 7/16 - 14 UNC x 1
5	8806R	Fuel Line - Over Flow	44	1001P	*Lockwasher 7/16
6	673A200	Engine Base Weldment	45	500P	*Hex Nut 7/16 - 14 UNC
10	8818R	Engine Base Brace	46	3016P	*Hex Bolt 5/16 - 18 UNC x 3/4
11	1555J	Safety Switch Bracket	47	16P	*5/16 Neck Carriage Bolt 5/16 - 18 UNC x 3/4
13	8780R	Dashboard Brace	48	3114P	*Hex Bolt 1/4 - 20 UNC x 1/2
14	8784R	Heat Shield	49	3011P	*Hex Bolt 5/16 - 18 UNC x 1
15	8925R	Sealing Strip	50	5004P	*Hex Washer Head Sheet Metal Screw No. 10 x 3/8 (new AB)
16	8924R	Sealing Strip Clamp	51	3320P	*Cross Recess Pan Head Machine Screw No. 10 - 24 UNC x 1/2
17	9151R	Insulated Clip	52	561P	*Keps Nut No. 10 - 24 UNC
18	4171R	Grill Bracket	53	3083P	*Cross Recess Pan Head Machine Screw No. 10 - 24 UNC x 3/4
19	8761R	Grill Bumper	54	1006P	*Lockwasher No. 10
20	8923R	Grill Bracket	55	505P	*Hex Nut No. 10 - 24 UNC
21	9042R	Roller Bumper	56	2503P	*Cotter Pin 3/32 x 3/4
22	242J	Decal - Roper	57	2014P	*Hex Bolt 5/16 - 18 UNC x 1 - 3/4
23	8937R	Hood Latch Cover - R.H.	58	293J	*Decal - Roper Logo
24	8889R	Hood Latch	59	5033P	*Screw, Hex 1/8 - Thread Cutting, Type 23 5/16 - 18 UNC x 3/4
26	8937R	Hood Strip	60	1537P	*Washer - 11/32 x 11/16 x 1/8 Ga.
26	9015R	Hood Latch Cover - L.H.			*STANDARD HARDWARE-PURCHASE LOCALLY
28	8028R	Decal - Maintenance			
29	673A29P	Hex Washer Head Thread Cutting Screw 5/16 - 18 UNC x 1/2 Type 23			
30	5600P	*Hex Washer Head Thread Cutting Screw 5/16 - 18 UNC x 1/2 Type 23			
31	3268P	*Cross Recess Truss Head Machine Screw 1/4 - 20 UNC x 3/4			



**REPAIR PARTS**

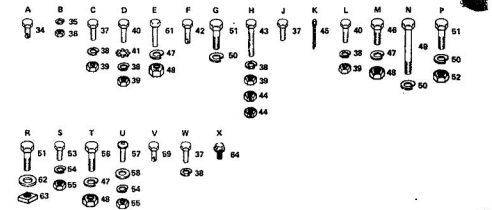
ROPER 11 H.P. GARDEN TRACTOR-MODEL NUMBER T1228AR  
CHASSIS, FENDER & DASHBOARD



**REPAIR PARTS**

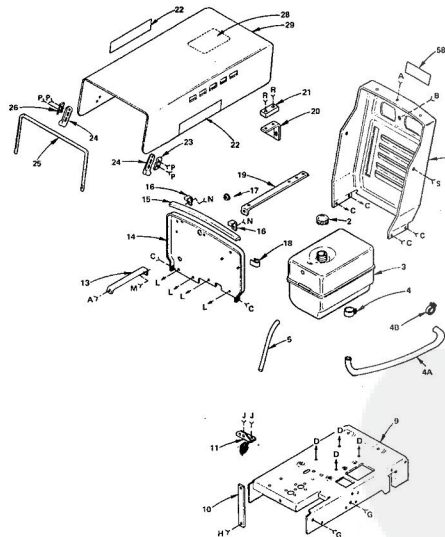
ROPER 11 H.P. GARDEN TRACTOR-MODEL NUMBER T1228AR  
CHASSIS, FENDER & DASHBOARD

KEY NO.	PART NO.	DESCRIPTION	KEY NO.	PART NO.	DESCRIPTION
1	8858R	Battery Tray	37	3003P	*Hex Bolt 5/16 - 18 UNC x 5/8
2	8797R	Tank & Battery Support	38	1003P	*Lockwasher 5/16
3	8753R	Hood Latch Pin	39	504P	*Hex Nut 5/16 - 18 UNC
4	8792R	Tank & Battery Support Brace	40	3010P	*Hex Bolt 5/16 - 18 UNC x 3/4
5	8807R	Chassis Channel	41	1408P	*Ext. Tooth Lockwasher 5/16
6	8791R	Engine Pulley Cover	42	5003P	*Hex Head Thread Cutting Screw 5/16 - 18 UNC x 3/4 Type 23
7	8915R	Nut Retainer	43	3233P	*Hex Bolt 5/16 - 18 UNC x 1 - 1/2 Full Thd.
8	8800R	Chassis Access Cover	44	1858H	Locknut 5/16
9	8384H	Control Knob	45	2511P	*Cotter Pin 3/16 x 1
10	8756R	Range Shift Rod	46	3022P	*Hex Bolt 3/8 - 16 UNC x 7/8
11	8816R	Range Shift Rod Bracket	47	1004P	*Lockwasher 3/8
12	8900R	Decal - Attachment Clutch	48	501P	*Hex Nut 3/8 - 16 UNC
13	8840R	Foot Rest - R.H.	49	3155P	*Hex Bolt 7/16 - 14 UNC x 2 - 1/4
14	873437	Suspension Arm Bracket Weldment - R.H.	50	1001P	*Lockwasher 7/16
15	2761R	Clip - Fuel Line	51	3034P	*Hex Bolt 7/16 - 14 UNC x 1
16	8825R	Transaxle Bracket	52	500P	*Hex Nut 7/16 - 14 UNC
17	1521	Seat Spring Lock Plate	53	3114P	*Hex Bolt 1/4 - 20 UNC x 1/2
18	9248R	Transaxle Spacer	54	1003P	*Lockwasher 1/4
19	873435	Drawer Assembly	55	503P	*Hex Nut 1/4 - 20 UNC
20	5012R	Reflector	56	3023P	*Hex Bolt 3/8 - 16 UNC x 1
21	8782R	Chassis Channel Cover	57	3368P	*Cross Recess Trust Head Machine Screw 1/4 - 20 UNC x 5/8
22	3807R	Universal Bushing	58	1505P	*Washer 8/32 x 5/8 x 1/6 Ga.
23	873438	Suspension Arm Bracket Weldment - L.H.	59	5600P	*Hex Head Thread Cutting Screw 5/16 - 18 UNC x 1/2 Type 23
24	8888R	Decal - Shift Pattern	60	2457	Decal - Roper
25	8841R	Foot Rest - L.H.	61	3021P	*Hex Bolt 3/8 - 16 UNC x 3/4
26	8059P	Fender	62	1893P	*Washer 15/32 x 5/8 x 1/6 Ga.
27	8788R	Seat Spring	63	889P	Square Nut 7/16 - 14 UNC
28	4732	Seat	64	5066P	*Hex Washer Hd. Thd. Cutting Screw 1/4 - 20 UNC x 1/2 Type 23
29	198U	Decal - Lower Dashboard	65	2437	Decal - 11 H.P.
30	198U	Decal - Upper Dashboard	66	2437	Warranty - Fast Tag
31	632	Dashboard	67	2541	Owners Manual
32	9038R	Bearing	—	—	*STANDARD HARDWARE-PURCHASE LOCALLY
33	872467	Shearing Bracket & Bearing (Inc. Key No. 32)			
34	5569P	Head Thread Cutting Screw 1/4 - 20 UNC x 1/2 Type 23			
35	1006P	*Lockwasher 1/4			
36	508P	*Hex Nut No. 10 - 24 UNC			



**REPAIR PARTS**

ROPER 11 H.P. GARDEN TRACTOR-MODEL NUMBER T1228AR  
ENGINE MOUNT, HOOD & GRILL



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ENGINE MOUNT, HOOD & GRILL

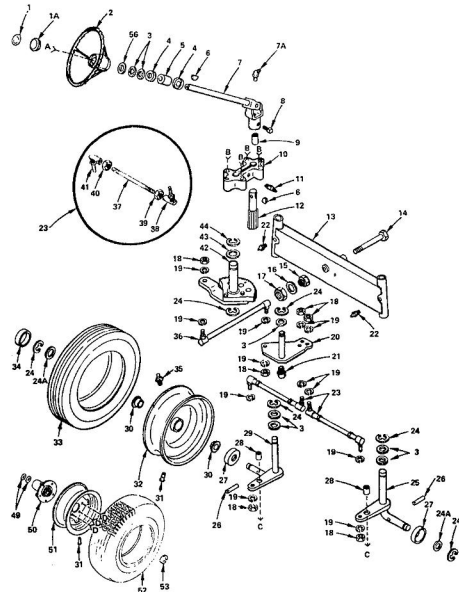
KEY NO.	PART NO.	DESCRIPTION	KEY NO.	PART NO.	DESCRIPTION
1	8858R	Gull	32	1003P	*Lockwasher 1/4
2	7917R	Fuel Tank Cap	33	503P	*Hex Nut 1/4 - 20 UNC
3	36J	Fuel Tank	34	3009P	*Hex Bolt 5/16 - 18 UNC x 5/8
4	8837R	Fuel Clamp	35	1003P	*Lockwasher 5/16
4A	8844R	Fuel Line	36	504P	*Hex Nut 5/16 - 18 UNC
4B	9095R	Fuel Line Clamp	43	3034P	*Hex Bolt 7/16 - 14 UNC x 1
5	9095R	Fuel Line - Overflow	44	1001P	*Lockwasher 7/16
6	873437	Engine Base Weldment	45	500P	*Hex Nut 7/16 - 14 UNC
10	8818R	Engine Base Brace	46	3010P	*Hex Bolt 5/16 - 18 UNC x 3/4
11	9280R	Safety Switch Bracket	47	16P	*Sq. Neck Carriage Bolt 5/16 - 18 UNC x 3/4
12	8780R	Dashboard Brace	48	3114P	*Hex Bolt 1/4 - 20 UNC x 1/2
14	8784R	Heat Shield	49	3011P	*Hex Bolt 5/16 - 18 UNC x 1
15	8936R	Seating Strip Clamp	50	5604P	*Hex Washer Head Sheet Metal Screw No. 10 - 24 UNC Type A5
16	8934R	Seating Strip	51	3220P	*Cross Recess Pan Head Machine Screw No. 10 - 24 UNC x 1/2
17	9161R	Insulated Clip	52	501P	*Hex Nut No. 10 - 24 UNC
18	4171R	Grill Bracket	53	3037P	*Cross Recess Pan Head Machine Screw No. 10 - 24 UNC x 3/4
19	8518H	Grill Bracket	54	1006P	*Lockwasher No. 10
20	8933P	Rubber Bumper	55	505P	*Hex Nut No. 10 - 24 UNC
21	8849R	Grill Bracket	56	2503P	*Cotter Pin 3/32 x 3/4
22	242J	Decal - Roper	57	3014P	*Hex Bolt 5/16 - 18 UNC x 1 - 3/4
23	8835R	Hood Latch Cover - R.H.	58	283J	Decal - Roper Logo
24	8888R	Hood Latch			
25	8937R	Hood Strip			
26	8016R	Hood Latch Cover - L.H.			
28	8028R	Decal - Maintenance			
29	873433	Hood Ass'y.			
30	5600P	*Hex Washer Head Thread Cutting Screw 5/16 - 18 UNC x 1/2 Type 23			
31	3268P	*Cross Recess Trust Head Machine Screw 1/4 - 20 UNC x 3/4			





### REPAIR PARTS

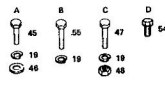
ROPER 11 H.P. GARDEN TRACTOR MODEL NUMBER T1228AR  
STEERING AND FRONT AXLE



### REPAIR PARTS

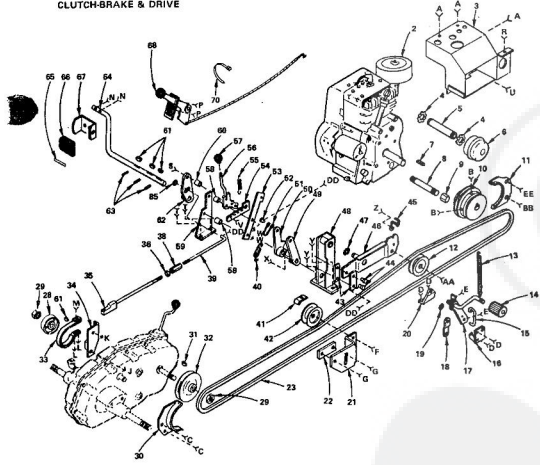
ROPER 11 H.P. GARDEN TRACTOR-MODEL NUMBER T1228AR  
STEERING AND FRONT AXLE

KEY NO.	PART NO.	DESCRIPTION	KEY NO.	PART NO.	DESCRIPTION
1	236J	Detail, Steering Wheel Cap	20	673A13	Spindle Weldment - L.H.
1A	9719R	Steering Wheel Cap	30	9060H	Flange Bearing
2	364M	Washer 48/34 x 1 - 1/4 x 16 Ga.	31	780H	Flange Washer
3	1562P	Washer 48/34 x 1 - 1/4 x 16 Ga.	32	3638R	Front Wheel Hic. Key No. 3, 20 & 3
4	900M	Cap - Steering Tube	33	3838R	Front Tire - Tubeless 10 x 4.50 - 8
5	5919M	Rubber Bushing	34	2118R	Dust Cap
6	882M1	Woodruff Key	35	6856M	Grease Fitting
7	9827H	U-Joint (Inc. Key No. 7A)	36	8809R	Steering Drag Link
7A	8823H	Grease Fitting	37	673A28	Tie Rod Hic. Key No. 20 & 40
8	4906P	Sq. Hd. Set Screw 3/8 - 16 UNC x 1/2	38	8922R	Tie Rod Adjust. L.H. Thread
9	161J	"U" Joint Socket	39	547P	Hex Jam Nut 3/8 - 24 UNF - L.H.
10	8938R	Steering Support Bracket	40	548P	Hex Jam Nut 3/8 - 24 UNF
11	6847M	Grease Fitting	41	8921R	Tie Rod Joint - R.H. Flange
12	151J	Steering Pinion	42	673A147	Steering Sector Assy.
13	673A26	Front Axle Weldment	43	1503P	Washer 5/16 x 1 - 1/4 x 16 Ga.
14	9319H	Front Bolt 5/8 - 11 UNC x 6	44	5017P	E-Ring
15	155J	Shoulder Nut	45	3023P	Hex Bolt 3/8 - 16 UNC x 1
16	1503P	Washer 21/32 x 1 - 5/16 x 13 Ga.	46	1517P	Washer 7/16 x 1 - 1/4 Ga.
17	527P	Hex Nut 3/8 - 11 UNC	47	3028P	Hex Bolt 3/8 - 16 UNC x 1 - 3/4
18	516P	Hex Nut 3/8 - 24 UNF	48	5011P	Hex Nut 3/8 - 16 UNC
19	1038P	Lockwasher 3/8	49	7502P	Axle Thrust Washers
20	673A30	Steering Bell Crank Weldment	50	624A102	Wheel Hub and Bushing
21	6823M	Grease Fitting	51	3625H	Wheel Wheel
22	6852M	Grease Fitting	52	3783H	Rear Tire - Tubeless 22.5 x 7.50 - 8
23	673A15	Steering Tie Rod (Inc. Key No. 37 thru 41)	54	1324H	Hull Bolt
24	5096P	E-Ring	55	5022P	Hex Bolt 3/8 - 16 UNC x 7/8
24A	1589P	Washer 49/64 x 1 - 5/8 x 16 Ga.	56	1591P	Washer 25/32 x 1 - 1/4 x 21 Ga.
25	673A30	Spindle Weldment - R.H.			
26	8620H	Grease Pin			
27	8759R	Dust Cap - Inner			
28	9067H	Bushing - Steering Stop			



### REPAIR PARTS

ROPER 11 H.P. GARDEN TRACTOR-MODEL NUMBER T1228AR  
CLUTCH-BRAKE & DRIVE



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ROPER 11 H.P. GARDEN TRACTOR-MODEL NUMBER T1228AR  
CLUTCH-BRAKE & DRIVE

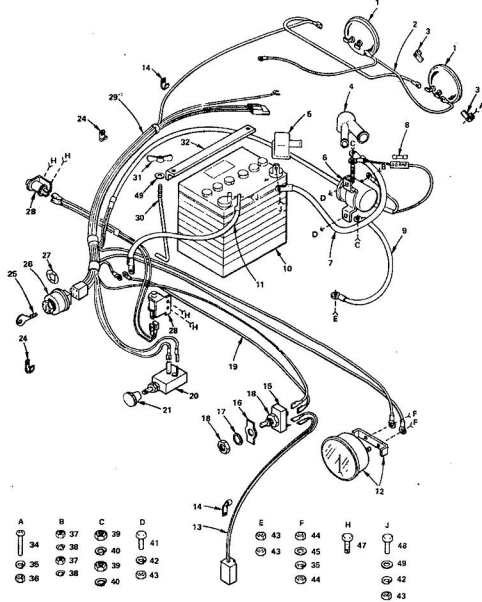
KEY NO.	PART NO.	DESCRIPTION	KEY NO.	PART NO.	DESCRIPTION
2	25817	Engine - 11 H.P. Briggs & Stratton Type 03001	60	8909R	Bushing - Lock Bar
3	673A153	Heat Deflection Weldment	61	2228M	Woodruff Key 3/16 x 3/4 H.T.
4	6940H	Muffler - Muffler	63	5142H	Roll Pin
5	8888R	Muffler Pipe	64	8760R	Foot Pedal Shaft
6	420L	Muffler	65	8889R	Insert - Clutch-Brake
7	9256E	Sq. Key	66	8882R	Foot Pedal
8	4011P	Oil Drain Pipe 3/8 - 18 NPT x 3 - 1/2	68	8821R	Foot Pedal Bracket
9	4015P	Drain Pipe 3/8 - 18 NPT	68	180J	Choke & Throttle Control
10	673A98	Engine Pulley & Set Screws (Inc. Key No. 72)	69	3011P	Hex Bolt 5/16 - 18 UNC x 1
11	184L	Engine Pulley Bolt Guide	72	1003P	Lockwasher 5/16
12	8946R	Ball Idler - V Groove	73	4560P	Hex Flange Socket Headless Set Scr 5/16 - 18 UNC x 1/2
13	8906R	Spring - Mover Clutch	74	3009P	Hex Bolt 5/16 - 18 UNC x 5/8
14	8963R	Attachment Pedal Cover	75	3010P	Hex Bolt 5/16 - 18 UNC x 3/4
15	673A105	Clutch Spring Hanger	75	524P	Hex Bolt 5/16 - 18 UNC
16	673A105	Clutch Lever Weldment	77	2500P	Cotter Pin 1/8 x 1
17	673A105	Clutch Lever Weldment	78	3026P	Hex Bolt 7/16 - 14 UNC x 1 - 1/2
18	5018P	Retaining Ring	79	1001P	Lockwasher 7/16
19	8828R	Clutch Bracket - Inner	82	506P	Hex Nut 7/16 - 14 UNC
20	8828R	Clutch Bracket - Outer	81	3021P	Hex Bolt 3/8 - 16 UNC x 3/4
21	8828R	Flat Idler Bracket	83	3022P	Hex Bolt 3/8 - 16 UNC x 7/8
22	8770R	Flat Idler Bracket Lock Rate	84	1004P	Lockwasher 3/8
23	8842R	Ground Drive Belt	85	1513P	Washer 13/32 x 13/16 x 16 Ga.
24	714J	Brake Drum	86	3164P	Undercut Flat Head Mach. Screw 3/8 - 18 UNC x 3/4
29	9204H	Locknut 1/2 - 20 UNF	87	10P	Sq. Neck Carriage Bolt 1/4 - 20 UNC x 1/2
31	8902R	Transaxle Pulley Bolt Guide	88	1665H	Locknut 1/4 - 20 UNC
31	8826M1	Locknut 1/2 - 20 UNF	89	1851H	Locknut 5/16 - 18 UNC
32	8847R	Transaxle Pulley	90	6599P	Hex Nut Thread Cutting Screw 1/4 - 20 UNC x 1/2 Type 23
33	673A29	Brake Band Assy.	91	1002P	Lockwasher 1/4
34	673A27	Brake Bracket Weldment	92	502P	Hex Nut 1/4 - 20 UNC
35	676A365	Brake Rod Assy.	94	3273P	Hex Bolt 5/16 - 18 UNC x 1 Grad 1
36	501P	Hex Nut 3/8 - 16 UNC	95	1589P	Washer 5/16 x 3/4 x 16 Ga.
38	8417H	Turbocharger	96	3105P	Hex Bolt 5/16 - 18 UNC x 7/8
39	8924M	Brake Shoe - Front	97	1537P	Washer 11/32 x 11/16 x 16 Ga.
40	8905R	Spring - Idler	98	5011P	Hex Nut 3/8 - 16 UNC
41	6636H	Belt Idler - Flat	99	3003P	Hex Bolt 1/4 - 20 UNC x 3/4
42	8815R	Clutch Arm Link	100	1585P	Washer 9/32 x 1 - 1/4 x 16 Ga.
44	8912R	Drilled Flat Head Rivet	101	6602P	Cotter Pin 1/8 x 20 UNC x 1/2 Type 23
45	8949R	V-Idler Belt Guide	102	3027P	Hex Bolt 3/8 - 16 UNC x 1 - 1/2
46	673A162	Belt Idler Bracket Weldment	103	3114P	Hex Bolt 1/4 - 20 UNC x 1/2
47	5091P	E-Ring	104	3384P	Hex Bolt 1/4 - 20 UNC x 1 - 1/4 Fu
48	673A21	Belt Idler Support Assy.	105	3019P	Hex Bolt 5/16 - 18 UNC x 1/2
49	8837R	Clutch Pencil Arm	106	3033P	Hex Bolt 5/16 - 24 UNF x 3/8
50	8836R	Safety Switch Arm	108	2206P	Cotter Pin 1/8 x 24
51	8905R	Spring - Clutch	109	3386P	Hex Bolt 5/16 - 24 UNF x 2
52	8911R	Drilled Flat Head Rivet	110	3387P	Hex Jam Nut 5/16 - 24 UNF
53	8902R	Parking Brake Lock Bracket			
54	1006L	Parking Brake Lock Bar			
55	8905R	Spring - Parking Brake			
56	673A18	Parking Brake Lever Weldment			
57	8911R	Control Knob - Parking Brake			
58	8908R	Bushing - Brake Lever			
59	8822R	Parking Brake Support			



**REPAIR PARTS**

ROPER 11 H.P. GARDEN TRACTOR-MODEL NUMBER T12288R

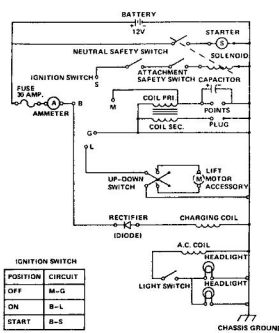
**ELECTRICAL**



**REPAIR PARTS**

ROPER 11 H.P. GARDEN TRACTOR-MODEL NUMBER T12288R

**ELECTRICAL**



POSITION	CIRCUIT
OFF	M-C
ON	B-L
START	B-S

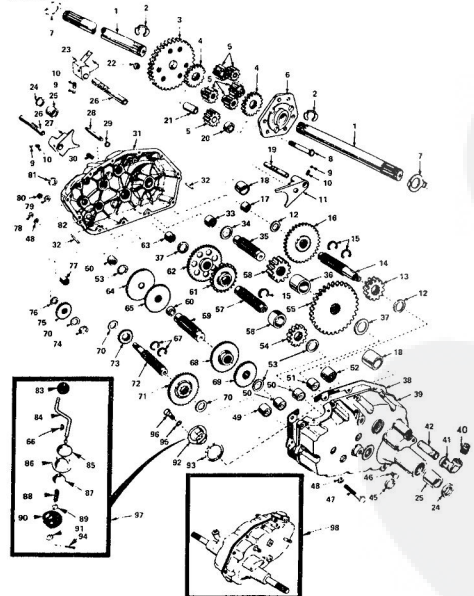
KEY NO.	PART NO.	DESCRIPTION	KEY NO.	PART NO.	DESCRIPTION
1	8452R	Headlight	29	303J	Wiring Harness
2	8031R	Wire - Headlight Ground	30	8964R	Battery Bolt
3	8764R	Headlight Clamp	31	3748M	Wing Nut 1/4 - 20 UNC
4	51J	Terminal Insulator (Dual)	32	8796R	Battery Hold Down
5	8856R	Terminal Insulator	34	3346P	Cross Section Trans Mt. Match. Screw No. 10 - 24 UNC x 1
6	103R	Solenoid Inc. Key No. 37 thru 40)	35	1006P	*Lockwasher No. 10
7	9277R	Battery Cable	36	506P	*Hex Nut No. 10 - 24 UNC
8	6347R	Fuse - 30 Amp.	37	527P	*Hex Nut No. 8 - 32 UNC
9	8808R	Starter Cable	38	1005P	*Lockwasher No. 8
10	7262	Battery	39	535P	*Hex Jam Nut 5/16 - 24 UNF
11	8881R	Ground Cable	41	3114P	*Lockwasher 5/16
12	9432R	Ammeter	42	1002P	*Lockwasher 1/4
13	9700R	Harness - Lift Motor	43	503P	*Hex Nut 1/4 - 20 UNC
14	4171R	Insulated Clip	44	542P	*Hex Nut No. 10 - 32 UNF
15	8984R	Lift Switch (Inc. Key No. 18)	45	1583P	Brass Washer No. 10
16	9246R	Up-Down Switch	47	5959P	*Hex Self-Feeding Screw No. 10 x 1/2 Type-23
17	7219R	Internal Tooth Lockwasher	48	3053P	*Hex Bolt 1/4 - 20 UNC x 3/4
18	565P	Hex Nut 15/32 - 32 NS	49	1506P	*Washer 8/32 x 5/8 x 16 Ga.
19	9697R	Ground Wire			
20	7783R	Light Switch			
21	7794R	Light Switch Knob			
24	2751H	Wire Clip			
25	7552H	Key and Ring Assembly			
26	4408R	Ignition Switch (Inc. Key No. 25)			
27	8257R	Terminal Identifier			
28	7755R	Safety Switch			

\*STANDARD HARDWARE - PURCHASE LOCALLY

**REPAIR PARTS**

ROPER 11 H.P. GARDEN TRACTOR-MODEL NUMBER T12288R

**TRANSAXLE**



**REPAIR PARTS**

ROPER 11 H.P. GARDEN TRACTOR-MODEL NUMBER T12288R

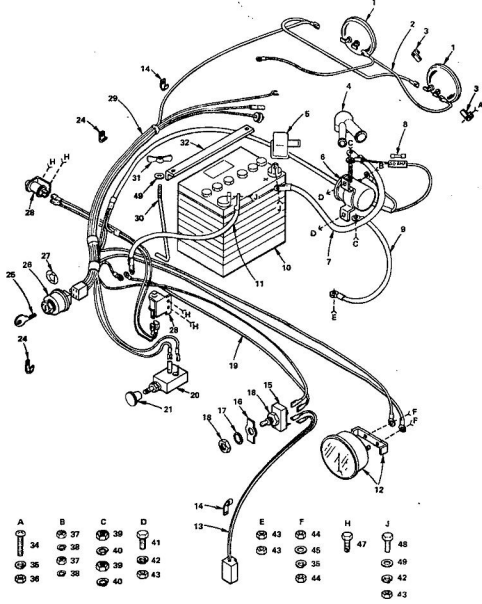
**TRANSAXLE**

KEY NO.	PART NO.	DESCRIPTION	KEY NO.	PART NO.	DESCRIPTION
1	4197R	Axle Shaft	49	4895H	Needle Bearing
2	5845R	Retaining Ring	50	4222R	Needle Bearing
3	4198R	Final Drive Gear	51	1528R	Needle Bearing
4	4216R	Differential Gear	52	8118M	Needle Bearing
5	4215R	Differential Pinion	53	4299R	Thrust Bearing Race
6	4217R	Differential Carrier	54	4299R	3rd Reduction Pinion - Low
7	6256R	Slide Thrust Washer	55	4213R	4th Reduction Gear
8	3056P	Hex Bolt 3/8 - 24 UNF x 3 - 1/4 (1" Thread Length)	56	4442R	3rd Reduction Pinion Spacer
9	7392M	Steel Ball	57	4196R	2nd Reduction Gear Shaft
10	6272H	Spring Shift Fork (Outer)	58	4214R	Final Drive Pinion
11	4980R	Shift Fork - High - Low Range	59	4194R	1st Reduction Gear Shaft
12	6256H	Thrust Bearing Race	60	7262R	1st Reduction Shaft Spacer
13	4212R	4th Reduction Pinion	61	4208R	3rd Reduction Pinion - High
14	4196R	3rd Reduction Gear Shaft	62	4207R	2nd Reduction Gear
15	6278H	Snap Ring - Crowned Type High - Low Range (Clear)	63	7398H	Needle Bearing
16	633A63	Needle Bearing	64	4203R	Low Speed Gear and 2nd Reduction Pinion Cluster
17	8118M	Needle Bearing	65	4204R	Reverse Gear
18	8140H1	Sintered Iron Bearing	66	7825M	Washnut 1/2 x 1/2
19	6217H	Shift Fork Shaft, High - Low Range	67	4826H	Snap Ring - Crowned Type Intermediate-Speed Gear
20	6218R	Differential Pinion Spacer	68	4205H	High Speed Gear
21	6252H1	Differential Pinion Bushing	69	4206R	Thrust Bearing Race
22	7810H	Spring Control Nut 3/8 - 24 UNF	70	1270H	Thrust Bearing Race
23	4988R	Shift Fork - L.H.	71	633A69	Intermediate and High Speed Cluster Pinion
24	7351R	Oil Seal	72	4193R	Input Shaft
25	92281	Sintered Iron Bearing	73	4201R	Low-Speed Pinion
26	6216H	Shift Fork Shaft	74	5001P	"E" Ring
27	6262H	Shift Fork - R.H.	75	1153R	Reverse Idler Gear
28	9212R	Shift Fork, High - Low Range	76	7392H	Reverse Idler Thrust Washer
29	6269H	Oil Seal	77	5239H	Needle Bearing
30	5825H	Pressure Relief Valve	78	504P	*Hex Nut 5/16 - 18 UNC
31	633A65	Gearcase, Reverse Idler Shaft and Gearcase - R.H. (Inc. Key No. 1, 17, 18, 25, 26, 30, 43, 76, 77 and 82)	79	1167R	Sealing Washer
32	6272H	Down Pin	80	6270H	Oil Seal
33	4226R	Needle Bearing	81	6270H	Oil Seal
34	7398H	Thrust Bearing Race	82	7394H	Reverse Idler Shaft
35	4198R	4th Reduction Gear Shaft	83	6394H	Control Knob
36	4200R	4th Reduction Gear Spacer	84	9011R	Gear Shift Lever - Bent
37	7395H	Thrust Bearing Race	85	2013R	Gear Shift Cap
38	6275H	Gearcase Gasket	86	633A68	Gear Shift Ball Cover and Pin
39	633A64	Gearcase and Bearings - L.H. (Inc. Key No. 18, 25, 49, 50 (2), 51 and 52)	87	6759H1	Shift Lever Guide Ball - Keyed
40	4002P	Pipe Plug 1/2 - 14 N.P.T.	88	4924H	Spring
41	4015P	Elbow 90° - 1/2 - 18 N.P.T.	89	1503P	*Washer 15/32 x 5/16 x 11 Ga.
42	4016P	Soft Flow Needle 1/2 - 14 N.P.T. x 3	90	9106R	3rd Mechanism Seal
43	6271H	Oil Seal	91	1509P	*Washer 9/16 x 15/16 x 11 Ga.
44	6267P	Pin Plus 1/4 - 18 N.P.T.	92	782	Gear Shift Latch
45	3027P	*Hex Bolt 5/16 - 18 x 1 1/2 G. x 5	93	6274H	Shift Ball Cover Gasket
46	1007P	Lockwasher 5/16 Extra Heavy	94	2005P	*Cover 1/8 - 3/8
			95	1003P	*Lockwasher 3/16
			96	2150P	*Hex Bolt 5/16 - 18 UNC x 7/8
			97	633A67	Gear Shift Lever Assy.
			98	633A66	Transaxle Assembly Less Brake Drum & Shift Lever Assy.

\*STANDARD HARDWARE - PURCHASE LOCALLY

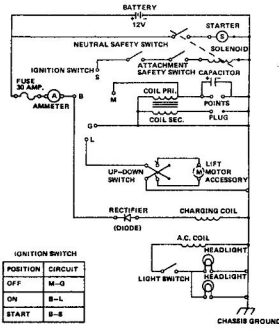
**REPAIR PARTS**

ELECTRICAL ROPER 11 H.P. GARDEN TRACTOR-MODEL NUMBER T1228AR



**REPAIR PARTS**

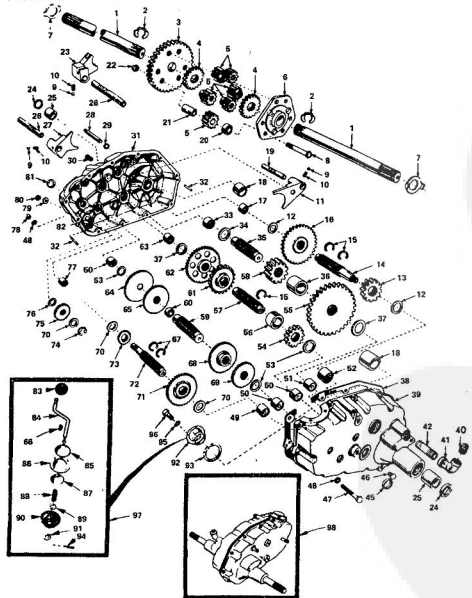
ELECTRICAL ROPER 11 H.P. GARDEN TRACTOR-MODEL NUMBER T1228AR



KEY NO.	PART NO.	DESCRIPTION	KEY NO.	PART NO.	DESCRIPTION
1	6452R	Headlight	29	303J	Wiring Harness
2	8031R	Wire-Headlight Ground	30	8864R	Battery Bolt
3	8794R	Headlight Clamp	31	3745M	Wing Nut 1/4 - 20 UNC
4	81J	Terminal Insulator (Dual)	32	8796R	Battery Hold Down
5	8866R	Terminal Insulator	34	3484P	Cross Recess Trans Hd. Mach. Screw No. 10 - 24 UNC x 1
6	103R	Solenoid (Inc. Key No. 37 thru 40)	35	1006P	*Lockwasher No. 10
7	8272R	Battery Cable	36	525P	*Hex Nut No. 10 - 24 UNC
8	8347R	Fuse - 30 Amp.	37	521P	*Hex Nut No. 8 - 32 UNC
9	8869R	Starer Cable	38	1006P	*Lockwasher No. 8
10	226J	Battery	39	538P	*Hex Jam Nut 5/16 - 24 UNF
11	8601R	Ground Cable	40	1006P	*Lockwasher 5/16
12	9433R	Ammeter	41	3114P	*Hex Bolt 1/4 - 20 UNC x 1/2
13	9000R	Hermes - Lift Motor	42	1006P	*Lockwasher 1/4
14	4171S	Insulated Dip	43	503P	*Hex Nut 1/4 - 20 UNC
15	8884R	Lift Switch (Inc. Key No. 18)	44	643P	*Hex Nut No. 10 - 32 UNF
16	8346R	Hex Nut 1/2 - 20 UNC	45	1883P	Brass Washer No. 10
17	7319R	Internal Tooth Lockwasher	47	5085P	Hex Nut Trimming Screw No. 10 x 1/2 Type 23
18	5866R	Hex Nut 1/2 - 20 UNC	48	3033P	*Hex Bolt 1/4 - 20 UNC x 3/4
19	9697R	Ground Wire	49	1506P	*Washer 8/32 x 5/8 x 16 Ga.
20	7792R	Light Switch			
21	7794R	Light Switch Knob			
22	7793R	Light Switch			
23	7291R	Key and Ring Assembly			
24	7522H	Key and Ring Assembly			
25	7522H	Key and Ring Assembly			
26	4406R	Ignition Switch (Inc. Key No. 25)			
27	8927R	Terminal Identifier			
28	7756R	Safety Switch			

**REPAIR PARTS**

TRANSAXLE ROPER 11 H.P. GARDEN TRACTOR-MODEL NUMBER T1228AR



**REPAIR PARTS**

TRANSAXLE ROPER 11 H.P. GARDEN TRACTOR-MODEL NUMBER T1228AR

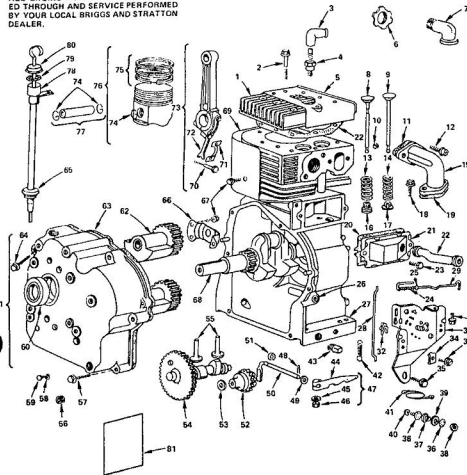
KEY NO.	PART NO.	DESCRIPTION	KEY NO.	PART NO.	DESCRIPTION
1	4197R	Axis Shaft	49	4895H	Needle Bearing
2	5845R	Paralleling Ring	50	4222R	Needle Bearing
3	4199R	Final Drive Gear	51	1529R	Needle Bearing
4	4216R	Differential Gear	52	8119M	Needle Bearing
5	4215R	Differential Pinion	53	4220R	Thrust Bearing Race
6	4217R	Differential Carrier	54	4209R	3rd Reduction Pinion-Slow
7	6206R	Hex Bolt 3/8 - 24 UNF x 3 - 1/4 (11 Thread Length)	55	4212R	4th Reduction Gear
8	3066P	Steel Ball	56	4442R	2nd Reduction Pinion Spacer
9	7392M	Spring Shift Fork Detent	57	4195R	2nd Reduction Gear Shaft
10	8272H	Shift Fork, High - Low Range	58	4214R	Final Drive Pinion
11	4865R	Thrust Bearing Race	59	4194R	1st Reduction Gear Shaft
12	4212R	4th Reduction Pinion	60	7258R	1st Reduction Shaft Spacer
13	4198R	3rd Reduction Gear Shaft	61	4208R	3rd Reduction Pinion - High
14	4180R	Snap Ring - Crescent Type	62	4207R	2nd Reduction Gear
15	8279H	High - Low Range Gears	63	7398H	Needle Bearing
16	8324G3	Needle Bearing	64	4203R	Low Speed Gear and 2nd Reduction Pinion Cluster
17	8118M	Needle Bearing	65	4204R	Reverse Gear
18	8740H1	Sintered Iron Bearing	66	7855M	Woodruff Key 1/8 x 1/2
19	8217H	Shift Fork Shaft, High - Low Range	67	4829H	Snap Ring, Crescent Type
20	4218R	Differential Pinion Spacer	68	4205R	Intermediate Speed Gear
21	8252H	Differential Pinion Bushing	69	4206R	High Speed Gear
22	7810H	Groove Centerlock Nut 3/8 - 24 UNF	70	1370H	Thrust Bearing Race
23	4866R	Shift Fork - L.H.	71	8334G3	Intermediate and High Speed Cluster Pinion
24	7393R	Oil Seal	72	4192R	Input Shaft
25	9291S	Sintered Iron Bearing	73	4201R	Low Speed Pinion
26	8216H	Shift Fork Shaft	74	5001P	*E Ring
27	8261H	Shift Fork - R.H.	75	1153R	Reverse Idler Gear
28	9012R	Shift Shafts, High - Low Range	76	7392H	Reverse Idler Thrust Washer
29	8269H	Oil Seal	77	4202R	Needle Bearing
30	8858H	Pressure Relief Valve	78	504P	*Hex Nut 5/16 - 18 UNC
31	8334G6	Gearcase, Reverse Idler Shaft and Bearings - R.H. (Inc. Key No. 17, 18, 25, 35, 60, 63, 76, 77 and 82)	79	1160R	Sealing Washer
32	8277H	Dowel Pin	80	541P	Hex Jam Nut 7/16 - 20 UNF
33	4225R	Needle Bearing	81	8270H	Oil Seal
34	7398H	Thrust Bearing Race	82	7384H	Reverse Idler Shaft
35	4198R	4th Reduction Gear Shaft	83	8364H	Control Knob
36	4203R	4th Reduction Gear Spacer	84	9011R	Gear Shift Lever - Bent
37	7399H	Thrust Bearing Race	85	8012R	Gear Shift Cover and Pin
38	8275H	Gearcase Gasket	86	8338S	Shift Lever - Concave Ball - Keyed
39	8334G4	Gearcase and Bearings - L.H. (Inc. Key No. 18, 25, 49, 50 (2), 61 and 82)	87	8739H1	Shift Mechanism Seal
40	4002P	Pipe Plug 1/2 - 14 N.P.T.	88	4924H	Spring
41	4015P	Elbow 90° - 1/2 - 14 N.P.T.	89	1502P	*Washer 1/2 x 5/8 x 16 Ga.
42	4014P	Std. Pipe Nipple 1/2 - 14 N.P.T. x 3	90	8105R	Shift Mechanism Seal
43	8271H	Oil Seal	91	1506P	*Washer 5/16 x 5/16 x 11 Ga.
44	4001P	Pipe Plug 1/4 - 18 N.P.T.	92	745J	Gear Shift Gate
45	3037P	*Hex Bolt 5/16 - 18 x 1 - 1/2 Grade 5	93	8274H1	Shift Ball Cover Gasket
46	1007P	Lockwasher 5/16 Extra Heavy	94	2265P	*Cover 1 1/2 x 3/4
			95	1003P	*Lockwasher 5/16
			96	2159P	*Hex Bolt 5/16 - 18 UNC x 7/8
			97	6334B7	Gear Shift Lever Assy.
			98	6334B4	Transaxle Assembly Less Brake Drum & Shift Lever Assy.

### REPAIR PARTS

ROPER 11 H.P. GARDEN TRACTOR—MODEL NUMBER T12288R  
BRIGGS & STRATTON ENGINE—MODEL NUMBER 252417 TYPE 0130-01

#### CYLINDER AND CRANKCASE

ALL ENGINE PARTS MUST BE PURCHASED THROUGH AND SERVICE PERFORMED BY YOUR LOCAL BRIGGS AND STRATTON DEALER.



### REPAIR PARTS

ROPER 11 H.P. GARDEN TRACTOR—MODEL NUMBER T12288R  
BRIGGS & STRATTON ENGINE—MODEL NUMBER 252417 TYPE 0130-01

#### CYLINDER AND CRANKCASE

KEY NO.	PART NO.	DESCRIPTION	KEY NO.	PART NO.	DESCRIPTION
1	212300	Head, Cylinder	45	220620	Washer
2	9372J	Screw, Cylinder Head	46	231082	Nut, Hex No. 10 - 24
3	66026	Elbow, Spark Plug	47	391732	Lever Assy., Governor (Inc. Key No's. 45, 46 & 61)
4	220918	Plug, Spark	48	93306	Caplin, Hex Pin
5	222725	Cover, Cylinder Head	49	222950	Washer, Governor Crank
6	911810	Locknut, Nut	50	231057	Crank, Governor
7	91308	Elbow, 90° Street	51	83207	Governor, "E" Ring
8	201395	Valve, Intake	52	391737	Gear, Governor
9	261462	Valve, Intake	53	221551	Washer, Valve
10	93303	Retainer, Exhaust Valve	54	212298	Gear, Cam
11	210872	*Gasket, Intake Elbow	55	261193	Turret, Valve
12	202760	Screw, Intake Elbow	56	93418	Pin, Hex Socket
13	20829	Spring, Exhaust Valve	57	93895	Reten., Crankcase Cover
14	62901	Spring, Intake Valve	58	222355	Washer
15	212301	Elbow, Intake	59	93554	Screw, Plug
16	202760	Retainer, Intake Valve	60	201875	Suit. Oil
17	212306	*Gasket, Crankcase Mounting	61	391747	Cover Assy., Crankcase (Inc. Key No. 60)
18	93415	Screw, Crankcase Mounting	62	391481	Counterweight & Bearing Assy.
19	210297	*Gasket, Crankcase Mounting	63	220856	*Gasket, Crankcase
20	21823	*Gasket, Valve Cover	64	93794	Screw, Crankcase Cover
21	301916	Breather Assy.	65	68839	Pin, Fillet Taper
22	280112	Tube, Breather	66	222407	Retainer, Counterweight
23	93394	Screw, Breather Mfg.	67	93394	Screw, Retainer & Cylinder Shield
24	261119	Spring, Choke Link	68	201291	Shield, Cylinder
25	222552	Washer, Choke Link	69	222744	Screw, Connecting Rod
26	212656	Bushing, Governor Crank	70	92909	Screw, Connecting Rod
27	303413	Link, Governor Assy. (Inc. Key No. 26)	71	222299	Lock, Connecting Rod Screw
28	921208	Link, Governor	72	222323	Dupee, Connecting Rod
29	201289	Link, Choke	73	391816	Rod Assy., Connecting (Inc. Key No's. 71, 72 & 73)
30	93119	Plate, Governor	74	260924	Lock, Piston Pin
31	301533	Plate, Governor Control	75	391780	Ring, Seal, Piston
32	207412	Smith, Shoe	76	391785	Piston Assy., Inc. Key No's. 75 & 76)
33	53459	Screw, Clamp	77	299881	Pin Assy., Piston (Inc. Key No. 75)
34	211585	Clamp, Cam	78	392283	Wash. Oil Filter
35	53335	Screw, Governor Plate	79	220833	Sew. Oil Filter Can
36	92791	Washer, Lock	80	220833	Sew. Oil Filter Can
37	92794	Collar, Insulating	81	220833	Sew. Oil Filter Can
38	90576	Nut, Hex No. 8 - 32	82	392295	Can and Dripdock, Oil Filter
39	60208	Washer, Insulating	83	220833	Sew. Oil Filter Can
40	93735	Screw, Terminal	84	220833	Sew. Oil Filter Can
41	911094	Wax, Grease	85	220833	Sew. Oil Filter Can
42	200595	Spring, Governor	86	220833	Sew. Oil Filter Can
43	911094	Pin, Oil Drain	87	220833	Sew. Oil Filter Can
44	92613	Bolt, Governor Lever	88	220833	Sew. Oil Filter Can

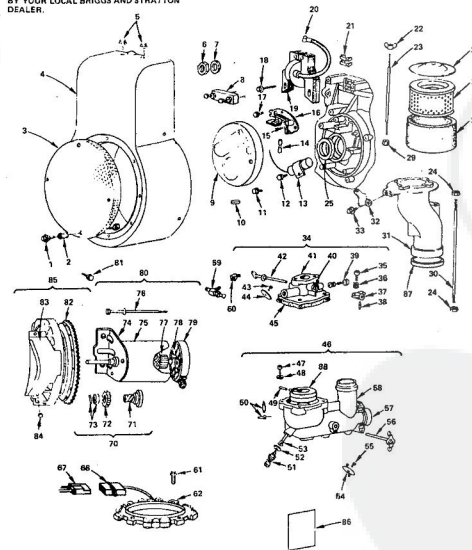
\*INCLUDED IN GASKET SET 293471

### REPAIR PARTS

ROPER 11 H.P. GARDEN TRACTOR—MODEL NUMBER T12288R  
BRIGGS & STRATTON ENGINE—MODEL NUMBER 252417 TYPE 0130-01

#### STARTER, FLYWHEEL & CARBURETOR GROUP

ALL ENGINE PARTS MUST BE PURCHASED THROUGH AND SERVICE PERFORMED BY YOUR LOCAL BRIGGS AND STRATTON DEALER.



### REPAIR PARTS

ROPER 11 H.P. GARDEN TRACTOR—MODEL NUMBER T12288R  
BRIGGS & STRATTON ENGINE—MODEL NUMBER 252417 TYPE 0130-01

#### STARTER, FLYWHEEL & CARBURETOR GROUP

KEY NO.	PART NO.	DESCRIPTION	KEY NO.	PART NO.	DESCRIPTION
1	03572	Screw, Screen	46	301831	Carburetor Assy., Inc. Key No's. 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57 & 58)
2	221187	Splines	47	90745	Screw, Machine 10 - 32 x 5/8
3	222627	Screen, Blower Housing	48	92290	Lockwasher No. 10
4	391502	Housing, Blower	49	230396	*Pin, Float Hinge
5	911810	Screen, Blower Housing	50	299096	Valve, Fuel Inlet
6	92284	Washer, Spring	51	99525	*Valve, Needle
7	208665	Palier, Flywheel	52	68557	*Gasket, Needle
8	19203	Key, Flywheel	53	390990	*Nozzle, Carburetor
9	222359	Cover, Breaker Point	54	391836	Valve, Choke
10	61760	Key, Flywheel	55	93499	Screw, Choke Valve
11	93045	Screw, Cover	56	391637	Shaft & Lever, Choke
12	95945	Screw, Condenser	57	221747	Pin, Wedge
13	391792	Pumper, Breaker Point	58	298514	Float, Carburetor
14	92704	Breaker Assy., Ignition	59	390303	Connector & Shoulder Valve
15	20018	Spring, Breaker Arm	60	92780	Elbow, Connector
16	391294	Screw, Armature Mfg.	61	93621	Screw, Starter
17	93226	Screw, Armature Adjusting	62	391620	Stator, Alternator
18	93281	Screw, Armature Mfg.	63	394658	Diode and Comm. Assembly
19	298988	Armature Assembly	64	393362	Airt. Harness Assembly
20	221798	Terminal, Ignition Cable	65	393418	Drive Assy., Starter (Inc. Key No's. 71, 72 & 73)
21	221907	Nut, Wing	66	391135	Clutch Assy., Starter
22	93653	Nut, Hex 1/4 - 28	67	280212	Gear, Starter
23	231124	Stud, Air Cleaner	68	391462	Retainer & Pin Assy.
24	90128	Nut, Hex 1/4 - 28	69	391751	Drive End Cap Assy., Starter
25	201086	Cap, Air Cleaner	70	392744	Housing Assy.
26	222724	Cartridge, Air Cleaner	71	391106	Thru Bolt Assy.
27	391028	Element, Air Cleaner	72	392747	Armature Assy.
28	210973	Element, Air Cleaner	73	390420	Blush Set
29	92278	Nut, Hex 1/4 - 20	74	260946	Commensator End Cap
30	231144	Stud, Air Cleaner Adapter	75	392749	Motor, Starting (Inc. Key No's. 74, 75, 76, 77, 78 & 79)
31	212242	Adapter, Air Cleaner	76	93523	Screw, Drive End Cap
32	22272	Bracket, Adapter	77	292134	Cover, Flywheel Ring
33	90468	Screw, Adapter Bracket	78	391629	Cover & Shield, Starter
34	301833	Body Assy., Upper Carburetor (Inc. Key No's. 25, 30, 37, 38, 39, 40, 41, 42, 43, 44 & 45)	79	93410	Screw, Starter Cover
35	91920	Screw, B - 32 x 5/8	80	391988	Flywheel & Ring Gear Assy., Inc. Key No's. 82, 83 & 84)
36	28157	Spring, Throttle Adjustment	81	220805	Carburetor Overhaul Kit
37	61987	Pin, Throttle Stop	82	220805	Gasket, Air Cleaner Adapter to Carburetor
38	93043	*Valve Assy., Carburetor Idle	83	220805	Gasket, Air Cleaner Adapter to Carburetor
39	292681	Stop, Throttle	84	220805	Gasket, Air Cleaner Adapter to Carburetor
40	22108	Bushing, Throttle Shaft	85	220805	Gasket, Air Cleaner Adapter to Carburetor
41	298759	Block, Upper Carburetor	86	220805	Gasket, Air Cleaner Adapter to Carburetor
42	391596	Shaft & Lever, Throttle	87	220805	Gasket, Air Cleaner Adapter to Carburetor
43	93495	Screw, Throttle Valve	88	298514	Float, Carburetor
44	221839	Screw, Throttle			
45	220268	*Gasket, Carburetor Body			

\*INCLUDED IN GASKET SET NO. 293421

\*INCLUDED IN CARBURETOR OVERHAUL KIT 391071

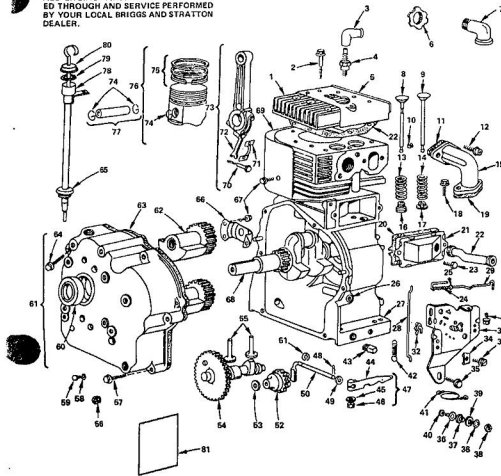


**REPAIR PARTS**

ROPER 11 H.P. GARDEN TRACTOR-MODEL NUMBER T1228AR  
BRIGGS & STRATTON ENGINE-MODEL NUMBER 252417 TYPE 0130-01

**CYLINDER AND CRANKCASE**

ALL ENGINE PARTS MUST BE PURCHASED THROUGH AND SERVICE PERFORMED BY YOUR LOCAL BRIGGS AND STRATTON DEALER.



**REPAIR PARTS**

ROPER 11 H.P. GARDEN TRACTOR-MODEL NUMBER T1228AR  
BRIGGS & STRATTON ENGINE-MODEL NUMBER 252417 TYPE 0130-01

**CYLINDER AND CRANKCASE**

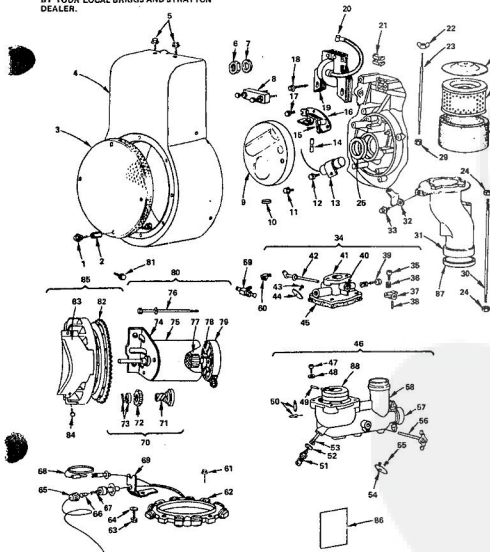
KEY NO.	PART NO.	DESCRIPTION	KEY NO.	PART NO.	DESCRIPTION
1	212300	Head, Cylinder	45	220680	Washer
2	93723	Screw, Cylinder Head	46	221022	Nut, Hex No. 10 - 24
3	86638	Elbow, Spark Plug	47	391732	Lever Ass'y, Governor (Inc. Key No's. 44, 45 & 46)
4	220918	Pin, Spark	48	93206	Cotter, Main Pin
5	222725	Cover, Cylinder Head	49	222450	Washer, Governor Crank
6	91210	Locknut, Nut	50	221027	Crank, Governor
7	91308	Elbow, 90° Street	51	93307	Retainer, "E" Ring
8	201189	Valve, Exhaust	52	391137	Retainer, "E" Ring
9	261462	Valve, Intake	53	221551	Washer, Thrust
10	93830	Retainer, Exhaust Valve	54	221258	Pin, Hex Socket
11	220872	"Gasket, Intake Elbow	55	261183	Tapset, Valve
12	92208	Spring, Intake Valve	56	93816	Pin, Hex Socket
13	98628	Spring, Exhaust Valve	57	93885	Screw, Crankcase Cover
14	05906	Spring, Intake Valve	58	222956	Washer
15	212301	Elbow, Intake	59	93554	Screw, Plug
16	222260	Retainer, Intake Valve	60	201075	Stud, Oil
17	221566	Ratchet, Intake Valve	61	391747	Gover. Ass'y., Crankcase (Inc. Key No. 40)
18	93415	Screw, Carburetor Mounting	62	391481	Counterweight & Bearing Ass'y.
19	220567	"Gasket, Carburetor Mounting	63	220856	"Gasket, Crankcase
20	220803	"Gasket, Valve Cover	64	93766	Screw, Crankcase Cover
21	391575	Breather Ass'y.	65	68838	Seat, Filter Tube
22	280112	Tube, Breather	66	222407	Retainer, Counterweight
23	93294	Screw, Breather Mtg.	67	93294	Screw, Retainer & Cylinder Shield
24	261119	Tube, Choke Link	68	261291	Camshaft
25	222252	Washer, Choke Link	69	222744	Shield, Cylinder
26	221065	Bushing, Governor Crank	70	92929	Screw, Connecting Rod
27	393413	Cylinder Ass'y. (Inc. Key No. 25)	71	222259	Lock, Connecting Rod Screw
28	261235	Link, Choke	72	222222	Dupper, Connecting Rod
29	261289	Link, Choke	73	391816	Rod Ass'y., Connecting
30	391569	Screw, Governor Plate	74	260924	Lock, Piston Pin
31	391633	Plate, Governor Control	75	391780	Ring Set, Piston
32	297472	Switch, Stop	76	391285	Piston Ass'y. (Inc. Key No's. 75 & 76)
33	93469	Screw, Clamp	77	262591	Pin Ass'y., Piston (Inc. Key No. 75)
34	221535	Clamp, Casing	78	282253	Ring, Oil Filter Cap
35	221536	Screw, Breaker Plate	79	282253	Ring, Oil Filter Cap
36	92701	Washer, Lock	80	392226	Cap and Distock, Oil Filter
37	66654	Cap, Insulating	81	202421	"Gasket Set 202421
38	90676	Nut, Hex No. 8 - 32			
39	66654	Cap, Insulating			
40	93735	Screw, Terminal			
41	291802	Wiring, Ground			
42	260208	Spring, Governor			
43	91084	Plug, Oil Drain			
44	92013	Ball, Governor Lever			

**REPAIR PARTS**

ROPER 11 H.P. GARDEN TRACTOR-MODEL NUMBER T1228AR  
BRIGGS & STRATTON ENGINE-MODEL NUMBER 252417 TYPE 0130-01

**STARTER, FLYWHEEL & CARBURETOR GROUP**

ALL ENGINE PARTS MUST BE PURCHASED THROUGH AND SERVICE PERFORMED BY YOUR LOCAL BRIGGS AND STRATTON DEALER.



**REPAIR PARTS**

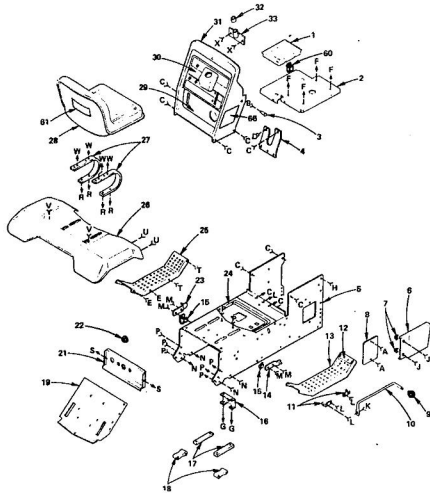
ROPER 11 H.P. GARDEN TRACTOR-MODEL NUMBER T1228AR  
BRIGGS & STRATTON ENGINE-MODEL NUMBER 252417 TYPE 0130-01

**STARTER, FLYWHEEL & CARBURETOR GROUP**

KEY NO.	PART NO.	DESCRIPTION	KEY NO.	PART NO.	DESCRIPTION
1	93572	Screw, Screen	48	391831	Carburetor Ass'y. (Inc. Key No's. 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57 & 58)
2	231187	Spacer	49	90748	Screw, Machine 10 - 32 x 5/8
3	222697	Screen, Blower Housing	46	92290	Lockwasher No. 10
4	291502	Housing, Blower	47	220896	+Pin, Float Hinge
5	93159	Screen, Blower Housing	50	220908	+Valve, Fuel Inlet
6	92284	Nut, Hex	51	95525	+Valve, Needle
7	220865	Washer, Spring	52	68587	+Gasket, Nozzle
8	19203	Pulley, Flywheel	53	390950	+Nozzle, Carburetor
9	220865	Washer, Spring	54	391636	Valve, Choke
10	61760	Key, Flywheel	55	34489	Screw, Choke Valve
11	93014	Screw, Cover	56	391637	Shaft & Lever, Choke
12	93014	Screw, Cover	57	221747	Pin, Wash
13	261799	Condenser	58	268514	Float, Carburetor
14	66704	Pulley, Breaker Point	59	390263	Connector & Shut-off Valve
15	26018	Spring, Breaker Arm	60	92780	Elbow, Connector
16	391394	Breaker Ass'y., Ignition	61	932571	Screw, Stator
17	93226	Screw, Breaker Adjusting	62	391520	Stator, Alternator
18	93261	Screw, Armature Mtg.	63	93394	Screw, Bracket
19	298908	Armature Assembly	64	390888	Knob Ass'y., Fuse
20	221798	Terminal, Ignition Cable	65	391027	Diode, Alternator
21	221907	Clip, Wire	66	261299	Spring, Diode
22	39463	Nut, Wing	67	390882	Wire Ass'y., Alternator
23	221124	Stud, Air Cleaner	68	222211	Bracket, Output
24	95129	Nut, Hex 1/4 - 28	69	393418	Wire Ass'y., Starter (Inc. Key No's. 71, 72 & 73)
25	391686	Seal, Oil	70	392426	Bush Set
26	222724	Cup, Air Cleaner	71	391135	Clutch Ass'y., Starter
27	292295	Cartridge, Air Cleaner	72	282212	Gear, Starter
28	220973	Element, Air Cleaner	73	391462	Retainer & Pin Ass'y.
29	22279	Nut, Hex 1/4 - 20	74	391751	Drive End Cap Ass'y., Starter
30	221144	Stud, Air Cleaner Adapter	75	392744	Housing Ass'y.
31	222222	Bracket, Adapter	76	391206	Thru Bolt Ass'y.
32	222222	Screw, Adapter Bracket	77	392747	Armature Ass'y.
33	93469	Body Ass'y., Upper Carburetor (Inc. Key No's. 36, 38, 37, 38, 39, 40, 41, 42, 43, 44 & 45)	78	392426	Bush Set
34	391633	Screw, Adapter Bracket	79	392945	Commutator End Cap
35	91920	Screw, 5 - 32 x 5/8	80	392749	Motor, Starter (Inc. Key No's. 74, 75, 76, 77, 78 & 79)
36	39157	Spring, Throttle Adjustment	81	93523	Screw, Drive End Cap
37	61867	Stop, Throttle	82	392134	Screw, Flywheel Ring
38	92043	Pin, Throttle Stop	83	391629	Cover & Shield, Starter
39	292681	+Valve Ass'y., Carburetor Jet	84	93410	Screw, Starter Cover
40	22106	Bushing, Throttle Shaft	85	391888	Flywheel & Ring Gear Ass'y. (Inc. Key No's. 82, 83 & 84)
41	298759	Body, Upper Carburetor	86	391071	Gasket, Air Cleaner Adapter to Carburetor
42	391595	Shaft & Lever, Throttle	87	220896	Gasket, Air Cleaner Adapter to Carburetor
43	93469	Screw, Throttle Valve	88	298514	Float, Carburetor
44	221939	Valve, Throttle			
45	220268	+Gasket, Carburetor Body			

**REPAIR PARTS**

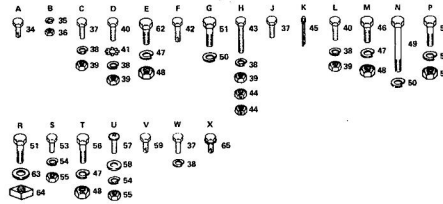
ROPER 14 H.P. GARDEN TRACTOR-MODEL NUMBER T4328AR  
CHASSIS, FENDER & DASHBOARD



**REPAIR PARTS**

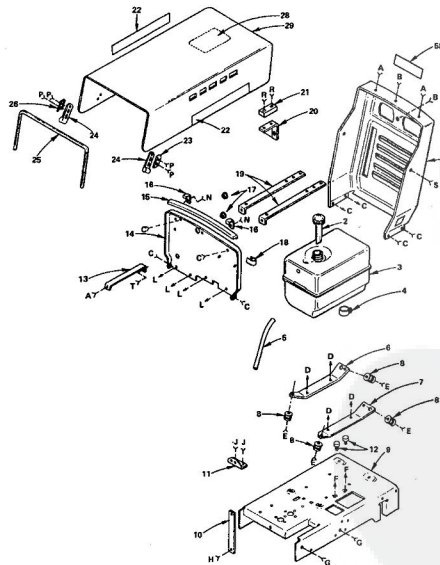
ROPER 14 H.P. GARDEN TRACTOR-MODEL NUMBER T4328AR  
CHASSIS, FENDER & DASHBOARD

KEY NO.	PART NO.	DESCRIPTION	KEY NO.	PART NO.	DESCRIPTION
1	885SR	Battery Tray	36	505P	*Hex Nut No. 10 - 24 UNC
2	8797R	Tank & Battery Support	37	3003P	*Hex Bolt 5/16 - 18 UNC x 5/8
3	875SR	Hood Latch Pin	38	1003P	*Lockwasher 5/16
4	8792R	Tank & Battery Support Brace	39	504P	*Hex Nut 5/16 - 18 UNC
5	860SR	Chassis Channel	40	3010P	*Hex Bolt 5/16 - 18 UNC x 3/4
6	8791R	Engine Fuel Cover	41	1403P	*Ext. Tooth Lockwasher 5/16
7	891SR	Nut Retainer	42	9503P	Hex Head Thread Cutting Screw 5/16 - 18 UNC x 1 1/2 Type 23
8	860SR	Channel Access Cover	43	3373P	Hex Bolt 5/16 - 18 UNC x 1 - 1/2 Full Thd
9	6394H	Control Knob	44	1889H	Locknut 5/16
10	875SR	Range Shift Rod	45	2511P	*Cotter Pin 3/16 x 1
11	8818R	Range Shift Rod Bracket	46	3023P	*Hex Bolt 3/8 - 16 UNC x 7/8
12	890SR	Decal - Attachment Clutch	47	1004P	*Lockwasher 3/8
13	8940R	Foot Rest - R.H.	48	501P	*Hex Nut 3/8 - 16 UNC
14	673A33	Suspension Arm Bracket Weldment - R.H.	49	3155P	Hex Bolt 7/16 - 14 UNC x 2 - 1/4
15	2751R	Clip - Fuel Line	50	1001P	*Lockwasher 7/16
16	862SR	Transaxle Bracket	51	3034P	Hex Bolt 7/16 - 14 UNC x 1
17	155J	Seat Spring Lock Plate	52	509P	*Hex Bolt 1/4 - 20 UNC x 1/2
18	8248R	Transaxle Spacer	53	114P	*Lockwasher 1/4
19	673A65	Drawbar Assembly	54	1002P	*Hex Nut 1/4 - 20 UNC
20	237J	Chassis Channel Cover	55	3023P	*Hex Bolt 3/8 - 16 UNC x 1
21	3807R	Universal Bushing	56	3023P	*Hex Bolt 3/8 - 16 UNC x 1
22	673A38	Suspension Arm Bracket Weldment - L.H.	57	3358P	*Cross Recess Truss Head Machine Screw 1/4 - 20 UNC x 5/8 - 16 Ga
23	8888R	Decal - Shift Pattern	58	1506P	Hex Head Thread Cutting Screw 5/16 - 18 UNC x 1/2 Type 23
24	8641R	Foot Rest - L.H.	59	5600P	*Washer 9/32 x 5/8 - 16 Ga
25	8500R	Fender	60	4171R	Hex Head Thread Cutting Screw 5/16 - 18 UNC x 1/2 Type 23
26	8768R	Seat	61	245J	Decal - Roper
27	472J	Seat	62	3021P	*Hex Bolt 3/8 - 16 UNC x 3/4
28	199J	Decal - Lower Dashboard	63	193P	*Washer 15/32 x 5/8 x 10 Ga
29	192J	Decal - Upper Dashboard	64	869P	Sawtooth Nut 7/16 - 14 UNC
30	163J	Dashboard	65	5606P	Hex Washer Hd. Thrd. Cutting Screw 1/4 - 20 UNC x 1/2 Type 23
31	8038R	Brake	66	244J	Decal - 14 H.P.
32	673A66	Steering Bracket & Bearing (Inc. Key No. 23)	---	912J	Warranty - Fac Tag
33	5699P	Hex Head Thread Cutting Screw 1/4 - 20 UNC x 1/2 Type 23	---	236J	Owner's Manual
34	1006P	Lockwasher No. 10	---	---	*STANDARD HARDWARE-PURCHASE LOCALLY



**REPAIR PARTS**

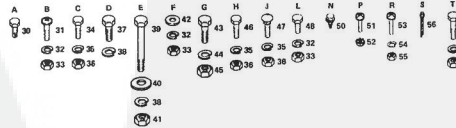
ROPER 14 H.P. GARDEN TRACTOR-MODEL NUMBER T4328AR  
ENGINE MOUNT, HOOD & GRILL



**REPAIR PARTS**

ROPER 14 H.P. GARDEN TRACTOR-MODEL NUMBER T4328AR  
ENGINE MOUNT, HOOD & GRILL

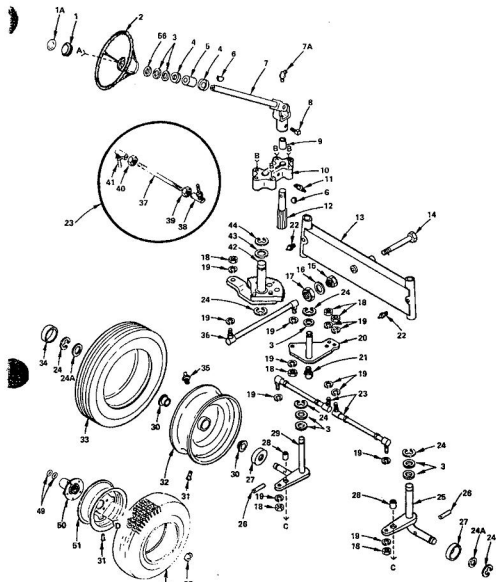
KEY NO.	PART NO.	DESCRIPTION	KEY NO.	PART NO.	DESCRIPTION
1	885SR	Grill	33	805P	*Hex Nut 1/4 - 20 UNC
2	889SR	Fuel Gauge	34	3003P	*Hex Bolt 5/16 - 18 UNC x 5/8
3	36J	Fuel Tank	35	1003P	*Lockwasher 5/16
4	8877R	Hose Clamp	36	504P	*Hex Nut 5/16 - 18 UNC
5	860SR	Fuel Line - Overflow	37	3022P	*Hex Bolt 3/8 - 16 UNC x 7/8
6	8300R	Engine Isolator Mounting Bracket - L.H.	38	1004P	*Lockwasher 3/8
7	8305R	Engine Isolator Mounting Bracket - R.H.	39	3238P	Hex Bolt Full Thread 3/8 - 16 UNC 2 - 1/4
8	673A124	88-Mount Assy	40	1589P	Washer 13/32 x 1 - 1/4 x 12 Ga.
9	673A176	Engine Base Weldment	41	501P	*Hex Nut 3/8 - 16 UNC
10	8818R	Engine Base Brace	42	1506P	*Washer 9/32 x 5/8 x 16 Ga.
11	890SR	Safety Switch Bracket	43	3034P	Hex Bolt 7/16 - 14 UNC x 1
12	9394R	Snubber Mount	44	1001P	*Lockwasher 7/16
13	8705R	Dashboard Brace	45	500P	*Hex Nut 7/16 - 14 UNC
14	8784R	Heat Shield	46	3010P	*Hex Bolt 5/16 - 18 UNC x 3/4
15	8928R	Sealing Strip	47	16P	*Std. Neck Carriage Bolt 5/16 - 18 UNC x 3/4
16	8934R	Sealing Strip Clamp	48	3114P	*Hex Bolt 1/4 - 20 UNC x 1/2
17	8151R	Snub Bushing	49	5601P	Hex Washer Head Sheet Metal Screw No. 10 x 3/8 Type AB
18	4171R	Insulated Clip	50	9601P	Hex Washer Head Sheet Metal Screw No. 10 - 24 UNC x 1/2
19	8781R	Grill Brace	51	3320P	*Keps Nut No. 10 - 24 UNC
20	8923R	Grill Bracket	52	3003P	*Hex Bolt 5/16 - 18 UNC
21	9042P	Rubber Bumper	53	3003P	*Cross Recess Pan Head Machine Screw No. 10 - 24 UNC x 1/2
22	242J	Decal - Roper	54	1003P	*Hex Nut No. 10 - 24 UNC
23	8928R	Hood Latch Cover - R.H.	55	505P	*Hex Nut No. 10 - 24 UNC
24	889SR	Hood Latch Cover - L.H.	56	2503P	*Cotter Pin 3/32 x 3/16
25	8037P	Hood Strip	57	3011P	*Hex Bolt 5/16 - 18 UNC x 1
26	8015R	Hood Latch Cover - L.H.	58	295J	Decal - Roper Logo
27	8028R	Decal - Maintenance	---	---	*STANDARD HARDWARE-PURCHASE LOCALLY
28	673A163	Hood Pin	---	---	
29	6600P	Hex Washer Head Thread Cutting Screw 5/16 - 18 UNC x 1/2 Type 23	---	---	
30	6600P	*Cross Recess Truss Head Machine Screw 1/4 - 20 UNC x 3/4	---	---	
31	3077P	Lockwasher 1/4	---	---	
32	1002P	Lockwasher 1/4	---	---	



**REPAIR PARTS**

ROPER 14 H.P. GARDEN TRACTOR-MODEL NUMBER T4328AR

STEERING AND FRONT AXLE



**REPAIR PARTS**

ROPER 14 H.P. GARDEN TRACTOR-MODEL NUMBER T4328AR

STEERING AND FRONT AXLE

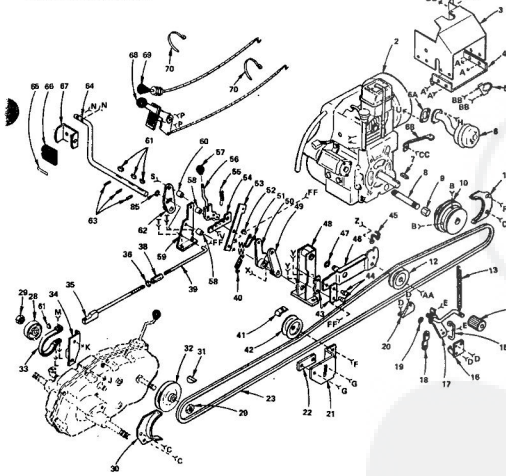
KEY NO.	PART NO.	DESCRIPTION	KEY NO.	PART NO.	DESCRIPTION
1	9719R	Steering Wheel Cap	29	673A19	Spindle Weldment - L.H.
1A	225J	Direct Steering Wheel Cap	30	6640R	Flange Bearing
2	2044R	Steering Wheel	31	795A	Line Valve
3	1522P	Washer 49/64 x 1 - 1/4 x 16 Ga.	32	3636R	Front Wheel (Inc. Key No's 20 & 29)
4	9007H	Cap - Steering Tube	33	2936R	Front Tire - Tubeless 18 x 6.50-8
5	5949H	Rubber Bushing	34	2118R	Dust Cap
6	9258M1	Woodruff Key	35	6659M	Grease Fitting
7	9822R	U-Joint (Inc. Key No. 7A)	36	8865R	Steering Drag Link
7A	9027R	Grease Fitting	37	673A20	Tie Rod (Inc. Key No's 39 & 40)
8	4505P	Sp. Hd. Set Screw 3/8 - 10 UNC x 1/2	38	8922R	Tie Rod Joint - L.H. Thread
9	181J	Tie Joint Spacer	39	547P	*Hex Jam Nut 3/8 - 24 UNF - L.H.
10	8839R	Steering Support Bracket	40	546P	*Hex Jam Nut 3/8 - 24 UNF
11	6842M	Steering Pinion	41	8521R	Tie Rod Joint - R.H. Thread
12	157J	Grease Fitting	42	673A17	Steering Sector Assy.
13	673A20	Front Axle Weldment	43	1563P	Washer 57/64 x 1 - 1/4 x 16 Ga.
14	8916R	*Washer 21/32 x 1 - 5/16 x 13 Ga.	44	6017P	E-Ring
15	156J	Shoulder Nut	45	3022P	*Hex Bolt 3/8 - 16 UNC x 1
16	1503P	*Washer 17/32 x 1 - 5/16 x 13 Ga.	46	1577P	*Hex Bolt 3/8 - 16 UNC x 1 - 3/4
17	522P	Hex Jam Nut 3/8 - 11 UNC	47	3028P	*Hex Bolt 3/8 - 16 UNC x 7/8
18	515P	*Hex Nut 3/8 - 24 UNF	48	5017P	Washer 25/32 x 1 - 1/4 x 21 Ga.
19	1004P	*Lockwasher 3/8	49	7583R	Axle Thrust Washers
20	673A20	Steering Bell Crank Weldment	50	65A4822	Wheel Hub and Bushing
21	6653M	Grease Fitting	51	3636R	Rear Wheel
22	6652M	Grease Fitting	52	3786R	Rear Tire - Tubeless 23.0 x 8.50-12
23	673A15	Steering Tie Rod (Inc. Key No's 37 thru 41)	53	6849R	E-Ring
24	1569P	Washer 49/64 x 1 - 5/8 x 16 Ga.	54	1204H	Hub Bolt
25	673A20	Spindle Weldment - R.H.	55	3022P	*Hex Bolt 3/8 - 16 UNC x 7/8
26	9258R	Woodruff Key	56	1591H	*STANDARD HARDWARE-PURCHASE LOCALLY
27	8788R	Dust Cup - Inner			
28	8807H	Bushing - Steering Stop			



**REPAIR PARTS**

ROPER 14 H.P. GARDEN TRACTOR-MODEL NUMBER T4328AR

CLUTCH-BRAKE & DRIVE

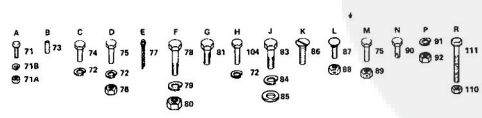


**REPAIR PARTS**

ROPER 14 H.P. GARDEN TRACTOR-MODEL NUMBER T4328AR

CLUTCH-BRAKE & DRIVE

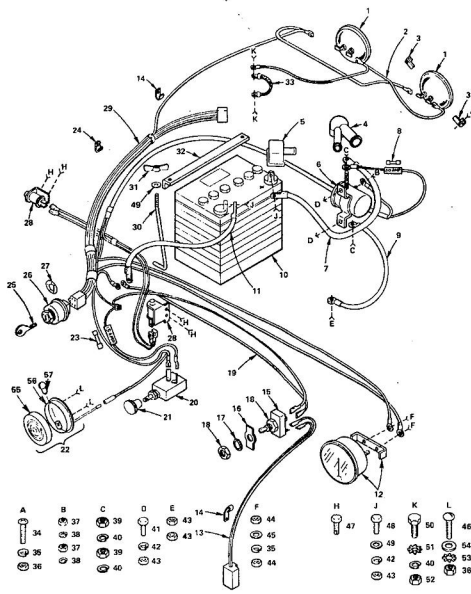
KEY NO.	PART NO.	DESCRIPTION	KEY NO.	PART NO.	DESCRIPTION
2	CH140	Engine - 14 H.P. Tecumseh	63	2228M	Woodruff Key 3/16 x 3/4 H.T.
3	150009B	Heat Deflector - Upper	64	8635R	Roll Pin
4	8568R	Heat Deflector - Lower	65	6142H	Roll Pin
5	673A75	Muffler Clamp (Inc. Key No's 72 & 76)	66	6760R	Foot Pedal Shaft
6	421J	Muffler	67	8889R	Inert - Clutch-Brake
6A	2049R	Muffler Gasket	68	8699R	Foot Pedal
6B	9223P	Exhaust Pipe Flange	69	6769R	Foot Pedal Bracket
7	9096E	Oil Drain Pipe 3/8 - 18 NPT x 3 - 1/2	69	8269R	Throttle Control
8	4011P	Drain Pipe Cap 3/8 - 18 NPT	70	8108R	Cable Tie
9	673A28	Engine Pulley & Set Screws	71	9218P	*Hex Nut Socket Head Stud Screw 3/8 - 1/2
11	164J	Inc. Key No. 72	71A	669P	*Hex Nut No. 10 - 24 UNC
12	8968R	Belt Idler - V Groove	71B	1008P	*Lockwasher No. 10
13	8969R	Spring - Mower Clutch	72	1003P	*Lockwasher 5/16
14	8968R	Adjustment Pad Cover	73	4546P	*Hex Forged Socket Headless Set Screw 5/16 - 18 UNC x 1/2
15	9268R	Clutch Spring Hanger	74	3006P	*Hex Bolt 5/16 - 18 UNC x 5/8
16	673A105	Clutch Lever Bracket Assy.	75	3010P	*Hex Bolt 5/16 - 18 UNC x 3/4
17	673A106	Clutch Lever Weldment	76	604P	*Hex Nut 5/16 - 18 UNC
18	8827R	Clutch Link - Lower	77	5006P	*Cotter Pin 1/8
19	5018P	Retaining Ring	78	3636P	*Hex Bolt 7/16 - 14 UNC x 1 - 1/2
20	8828R	Clutch Bracket - Inner	79	1001P	*Lockwasher 7/16
21	8828R	Clutch Bracket - Outer	80	600P	*Hex Nut 7/16 - 14 UNC
22	8719R	Idler Bracket Lock Plate	81	8221P	*Hex Bolt 3/8 - 18 UNC x 3/4
23	8845R	Ground Drive Belt	83	3022P	*Hex Bolt 3/8 - 16 UNC x 7/8
24	214J	Clutch Drum	84	1004P	*Lockwasher 3/8
25	9204H	Locknut 1/2 - 20 UNF	85	1813P	Washer 13/32 x 13/16 x 16 Ga.
26	8829R	Transaxle Pulley Belt Guide	85	3164P	Undercut Flat Head Mach. Screw 3/8 - 16 UNC x 3/4
31	8858M1	Woodruff Key	87	10P	*Sp. Neck Carriage Bolt 1/4 - 20 UNC x 1/2
32	8847H	Brake Band Assy.	88	1605H	Locknut 1/4 - 20 UNC
33	673A25	Brake Bracket Weldment	89	1825H	*Lockwasher 5/16 - 18 UNC
34	673A27	Brake Rod Assy.	90	8589P	*Hex Hd. Thread Cutting Screw 1/4 - 20 UNC x 1/2 Type 23
35	673A26	Brake Rod Assy.	91	1002P	*Lockwasher 1/4
36	546P	*Hex Nut 3/8 - 18 UNC	92	603P	*Hex Nut 1/4 - 20 UNC
38	6417H	Turnbuckle	94	3275P	*Hex Bolt 5/16 - 18 UNC x 1 Grade 5
39	8829R	Brake Rod - Front	95	1508P	Washer 5/16 x 3/4 x 16 Ga.
40	8969R	Spring	96	3156P	*Hex Bolt 5/16 - 18 UNC x 7/8
41	8829R	Wipe Rod	97	1575P	Washer 11/32 x 17/16 x 16 Ga.
42	8829H	Belt Idler - Flat	98	3003P	*Hex Bolt 1/4 - 20 UNC x 3/4
43	8815R	Clutch Arm Link	100	1005P	Washer 9/32 x 1 - 1/4 x 16 Ga.
44	8912R	Drilled Flat Head Rivet	101	8502P	Cross Recess Truss Head Thread Cutting Screw 1/4 - 20 UNC x 1/2 Type 22
45	8848R	V - Idler Belt Guide	102	3022P	*Hex Bolt 3/8 - 16 UNC x 1 - 1/2
46	673A162	Belt Idler Bracket Weldment	103	801H	*Hex Bolt 5/16 - 18 UNC
47	5017P	*Hex Bolt 3/8 - 16 UNC x 7/8	104	3010P	*Hex Bolt 5/16 - 18 UNC x 3/4 G. 5
48	673A21	Belt Idler Support Assy.	105	6546P	*Hex Hd. Self-Drilling Screw No. 10 x 3/8 Type 23
49	8827R	Clutch Drum	106	1804P	Hex Washer Head Sheet Metal Screw No. 12 x 1/2 Type 48
50	8828R	Safety Switch Arm	107	5503P	Hex Washer Head Sheet Metal Screw No. 12 x 1/2 Type 48
51	8828R	Safety Switch Arm	108	1566P	Washer 1/4 x 9/16 x 16 Ga.
52	8911R	Drilled Flat Head Rivet	109	2056P	Cotter Pin 1/8 - 3/4
53	9220P	Parking Brake Lock Bracket	110	607P	*Hex Jam Nut 5/16 - 18 UNC
54	1068J	Parking Brake Lock Bar	111	3211P	*STANDARD HARDWARE-PURCHASE LOCALLY
55	8948R	Spring - Parking Brake			
56	673A18	Parking Brake Lever Weldment			
57	8817R	Control Knob - Parking Brake			
58	8808R	Bushing - Brake Lever			
59	8822R	Parking Brake Support			
60	8909R	Bushing - Lock Bar			
60A	2011P	*Hex Bolt 5/16 - 18 UNC x 1			



### REPAIR PARTS

ROPER 14 H.P. GARDEN TRACTOR-MODEL NUMBER T4328AR

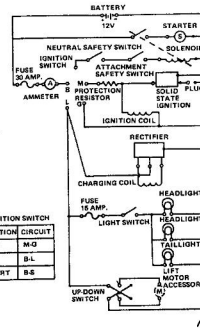
#### ELECTRICAL



### REPAIR PARTS

ROPER 14 H.P. GARDEN TRACTOR-MODEL NUMBER T4328AR

#### ELECTRICAL

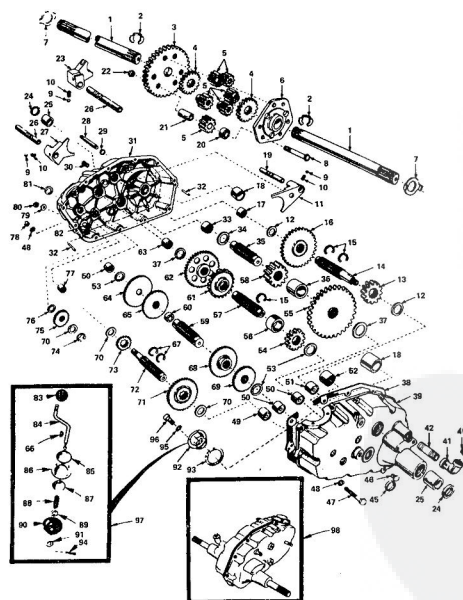


KEY NO.	PART NO.	DESCRIPTION	KEY NO.	PART NO.	DESCRIPTION
1	8452R	Headlight	32	8788R	Battery Hold Down
2	8031R	Wire - Headlight Ground	33	8288R	Ground Strap
3	874R	Headlight Glass	34	3348P	Cross Recess Trust Hd. Mesh. Screw No. 10 - 24 UNC x 1
4	51J	Terminal Insulator (Dual)	35	1006P	"Lockwasher No. 10
5	8566R	Terminal	36	805P	"Hex Nut No. 10 - 24 UNC
6	103H	Solenoid (Inc. Key No. 37 thru 40)	37	527H	"Hex Nut No. 8 - 32 UNC
7	8271R	Battery Cable	38	1002P	"Lockwasher No. 8
8	6347R	Fuse - 30 Amp.	39	832P	"Hex Nut 1/8 - 20 UNF
9	8008R	Starter	40	1003P	"Lockwasher 1/8
10	228L	Battery	41	3116P	"Hex Nut 1/4 - 20 UNF x 1/2
11	8681R	Ground Cable	42	1002P	"Lockwasher 1/8
12	9433R	Ammeter	43	802P	"Hex Nut 1/4 - 20 UNF
13	9700R	Horn - LH Motor	44	843P	"Hex Nut No. 10 - 32 UNF
14	4117R	Insulated Clip	45	1052P	Brass Washer No. 10
15	8966R	L2 Switch (Inc. Key No. 18)	46	3074P	Socket Head Hex. Mech. Screw No. 10 - 24 x 3/4
16	8348R	Up-Down Plate	47	5959P	"Hex Self-Drilling Screw No. 10 x 1/2 Type 23
17	7318R	Internal Tooth Lockwasher	48	3003P	"Hex Bolt 1/4 - 20 UNC x 3/4
18	8657R	Ground	49	1506P	"Washer 9/32 x 5/8 x 18 Ga.
19	7795R	Light Switch	50	301P	"Hex Bolt 5/16 - 18 UNC x 3/4
20	7796R	Light Switch Knob	51	1483P	"Ext. Tooth Lockwasher 5/16
21	8282H	Tailight (Inc. Key No's. 55, 56 and 57)	52	1002P	"Lockwasher 1/8
22	7215R	Fuse 15 Amp.	53	1002P	"Lockwasher 1/8
23	7215R	Wire Clip	54	1506P	"Washer 7/32 x 1/2 x 18 Ga.
24	7052H	Key - 15 Amp.	55	8292H	"Floures. Tailight Bulb No. 1895 (2 Candle Power)
25	4406R	Ignition Switch (Inc. Key No. 26)	56	8292H	"Floures. Tailight Bulb No. 1895 (2 Candle Power)
26	8651R	Terminal Identifier	57	8291H	"Floures. Tailight Bulb No. 1895 (2 Candle Power)
27	7755R	Safety Switch			
28	241J	Wing Nut			
29	8854R	Battery Bolt			
30	3748M	Wing Nut 1/4 - 20 UNC			
31					

### REPAIR PARTS

ROPER 14 H.P. GARDEN TRACTOR-MODEL NUMBER T4328AR

#### TRANSAXLE



### REPAIR PARTS

ROPER 14 H.P. GARDEN TRACTOR-MODEL NUMBER T4328AR

#### TRANSAXLE

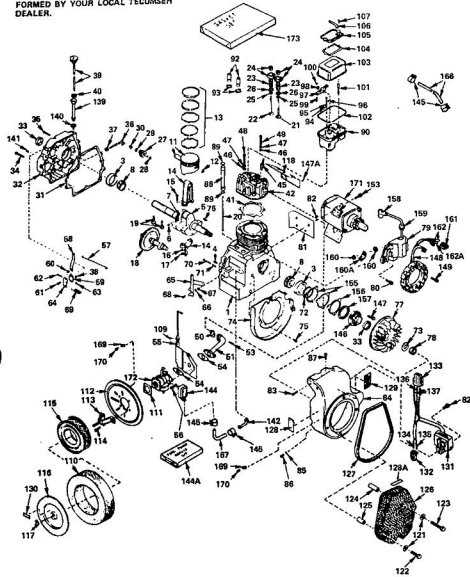
KEY NO.	PART NO.	DESCRIPTION	KEY NO.	PART NO.	DESCRIPTION
1	4107R	Axle Shaft	49	4805H	Needle Bearing
2	8845R	Retaining Ring	50	4222R	Needle Bearing
3	4199R	Final Drive Gear	51	1523R	Needle Bearing
4	4218R	Differential Pinion	52	8119M	Needle Bearing
5	4215R	Differential Pinion	53	4220R	Thrust Bearing Race
6	4217R	Differential Carrier	54	4209R	3rd Reduction Pinion - Low
7	6255H	Axle Thrust Washer	55	4212R	4th Reduction Gear
8	3065P	"Hex Bolt 3/8 - 24 UNF x 3 - 1/4 (3" Thread Length)	56	4442R	3rd Reduction Pinion Spacer
9	7802M	Shell Bolt	57	4169R	2nd Reduction Gear Shaft
10	6272H	Spring Shifts Fork Detent	58	42146	Final Drive Pinion
11	4065R	Shift Fork, High - Low Range	59	4194R	1st Reduction Gear Shaft
12	6268H	Thrust Bearing Race	60	7628R	1st Reduction Shaft Spacer
13	4212R	4th Reduction Pinion	61	4208R	3rd Reduction Pinion - High
14	4195R	3rd Reduction Gear Shaft	62	4207R	2nd Reduction Gear
15	4216H	Snap Ring - Crescent Type	63	7388H	Needle Bearing
16	633A63	High - Low Range Gears	64	4203R	Low Speed Gear and 2nd Reduction Pinion Cluster
17	8118M	Needle Bearing	65	4204R	Reverse Gear
18	8740H1	Sintered Iron Bearing	66	785M	Woodruff Key 1/8 x 1/2
19	6217H	Shift Fork Shaft, High - Low Range	67	4928H	Snap Ring - Crescent Type
20	4218R	Differential Pinion Spacer	68	4205H	Intermediate Speed Gear
21	6262H	Differential Pinion Bushing	69	4206R	High Speed Gear
22	7810H	Group Gearlock Nut 3/8 - 24 UNF	70	1210H	Thrust Bearing Race
23	4968R	Shift Fork - L.H.	71	633A60	Intermediate and High Speed Cluster Pinion
24	7393R	Oil Seal	72	4102R	Input Shaft
25	9021R	Sintered Iron Bearing	73	4201R	Low Speed Pinion
26	6216H	Shift Fork - R.H.	74	5001P	"E Ring
27	6263H	Shift Fork, High - Low Range	75	1153R	Reverse Idler Gear
28	8012R	Oil Seal	76	7392H	Reverse Idler Thrust Washer
29	6260H	Oil Seal	77	559H	Needle Bearing
30	8885H	Pressure Relief Valve	78	504P	"Hex Nut 5/16 - 18 UNF
31	633A65	Gearcase, Reverse Idler Shaft and Bearings, R.H. (Inc. Key No's. 17, 18, 25, 31, 50, 61, 76, 77 and 82)	79	1167R	Sealing Washer
32	6277H	Dowel Pin	80	541P	"Hex Jam Nut 7/16 - 20 UNF
33	4222R	Needle Bearing	81	8270H	Oil Seal
34	7398H	Thrust Bearing Race	82	7384H	Reverse Idler Shaft
35	4198R	4th Reduction Gear Shaft	83	8304H	Control Knob
36	4200R	4th Reduction Gear Spacer	84	9011H	Gear Shift Lever - Bent
37	7395H	Thrust Bearing Race	85	9013R	Gear Shift Cap
38	6270H	Gearcase Gasket	86	633A62	Gear Shift Ball Cover and Pin
39	633A64	Gearcase and Bearings, L.H. (Inc. Key No's. 18, 25, 40, 50 (2), 51 and 52)	87	8738H	Shift Lever Guide Ball - Keyed
40	4002P	Pin Plug 1/2 - 14 N.P.T.	88	4624H	Spring
41	4015P	Elbow 90° 1/2 - 14 N.P.T.	89	1503P	"Washer 19/32 x 5/8 x 18 Ga.
42	4018P	Oil Seal	90	8155H	Shift Mechanism Seal
43	6271H	Oil Seal	91	1509P	"Washer 9/16 x 15/16 x 11 Ga.
44	4001P	Pin Plug 1/4 - 18 N.P.T. x 3	92	75J	Gear Shift Gears
45	6271H	Oil Seal	93	6274H	Shift Ball Cover Gasket
46	4001P	"Hex Bolt 5/16 - 18 - 1 - 1/2 Grade 5	94	2905P	"Washer 1 1/8 x 3/8
47	3083P	"Hex Bolt 5/16 - 18 - 1 - 1/2 Grade 5	95	1002P	"Lockwasher 5/16
48	1007P	"Lockwasher 5/16 Extra Heavy	96	3159P	"Hex Bolt 5/16 - 18 UNF x 7/8
			97	633A67	Gear Shift Lever Assy.
			98	833A64	Transaxle Assembly Less Brake Drum & Shift Lever Assy.

\*STANDARD HARDWARE - PURCHASE LOCALLY

### REPAIR PARTS

ROPER 14 H.P. GARDEN TRACTOR-MODEL NUMBER T4328AR  
TECUMSEH 4 CYCLE ENGINE-MODEL NUMBER OH140-160039B

ALL ENGINE PARTS MUST BE PURCHASED THROUGH AND SERVICE PERFORMED BY YOUR LOCAL TECUMSEH DEALER.



### REPAIR PARTS

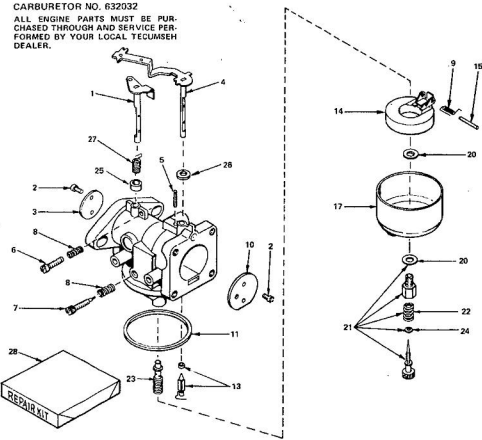
ROPER 14 H.P. GARDEN TRACTOR-MODEL NUMBER T4328AR  
TECUMSEH 4 CYCLE ENGINE-MODEL NUMBER OH140-160039B

KEY NO.	PART NO.	DESCRIPTION	KEY NO.	PART NO.	DESCRIPTION
1	32873	Cylinder Assy. (Inc. No's. 4, 33 & 141)	34	30356	Screw, Hex Hd. Sems, 1/4 - 20 x 1
2	31928	Cup, Bearing	35	65055B	Screw, Hex Hd. Sems, 1/4 - 20 x 2
3	27652	Pin, Dowel	36	32425	Nut, Hex, Governor
4	33397	Crankshaft Assy. (Inc. No's. 3, 6, 7 & 8)	37	32426	Screw, Governor Rod
5	31931	Pin, Crankshaft Gds	38	25123	Ring, Retaining
6	31931	Gear, Crankshaft	39	33764	Gasket, Oil Fill (Inc. No. 40)
7	31931	Retaining Ring	40	31932	"O" Ring
8	33001A	Piston & Pin Assy. (Inc. No. 12) (Std.)	41	33674	*Gasket, Cylinder Head
9	33001	Piston & Pin Assy. (Inc. No. 12) (0.010 oversize)	42	33675	Head, Cylinder (Inc. No. 92)
10	33002	Piston & Pin Assy. (Inc. No. 12) (0.020 oversize)	43	33676	Plug, Spark (Champion L-80 or equiv)
11	32619	Piston & Pin Assy. (Inc. No. 12) (0.030 oversize)	44	33677	Reactor Spark Plug (Canadian Regulation)
12	32620	Piston & Pin Assy. (Inc. No. 12) (0.040 oversize)	45	650991	Washer, Flat
13	32004	Ring Set, Piston (Std.)	46	650992	Washer, Bellcrank
14	32005	Ring Set, Piston (0.010 oversize)	47	650993	Screw, Hex Hd. Sems, 5/16 - 18 x 1-3/4
15	32006	Ring Set, Piston (0.020 oversize)	48	650994	Screw, Hex Hd. Sems, 5/16 - 18 x 1-3/8
16	32007	Ring Set, Piston (0.030 oversize)	49	33613	*Gasket, Intake Pipe
17	32008	Ring Set, Piston (0.040 oversize)	50	33614	Ring, Intake
18	32009	Ring Set, Piston (0.050 oversize)	51	79202B	Screw, Hex Hd. Sems 5/16 - 18 x 7/8
19	32010	Ring Set, Piston (0.060 oversize)	52	33678	Screw, Pin Hd. Sems, 5/16 - 18 x 1-1/8
20	32011	Ring Set, Piston (0.070 oversize)	53	33679	Link, Governor
21	32012	Ring Set, Piston (0.080 oversize)	54	33680	Level, Governor Adjusting
22	32013	Ring Set, Piston (0.090 oversize)	55	33681	Chain, Governor Lever
23	32014	Ring Set, Piston (0.100 oversize)	56	650995	Lockwasher No. 10 E.T.
24	32015	Ring Set, Piston (0.110 oversize)	57	30312	Screw, Hex Washer Hd., 10 - 32 x 1/2
25	32016	Ring Set, Piston (0.120 oversize)	58	650996	Screw, Pan Hd. Hd., 10 - 24 x 3/8
26	32017	Ring Set, Piston (0.130 oversize)	59	7975	Nut, Square, 10 - 24
27	32018	Ring Set, Piston (0.140 oversize)	60	31966	Plate, Governor Spring
28	32019	Ring Set, Piston (0.150 oversize)	61	31967	Lever Assy., Control
29	32020	Ring Set, Piston (0.160 oversize)	62	31968	Washer, Valve
30	32021	Ring Set, Piston (0.170 oversize)	63	31969	Washer, Governor Lever
31	32022	Ring Set, Piston (0.180 oversize)	64	650997	Screw, Hex Washer Hd., 10 - 24 x 5/8
32	32023	Ring Set, Piston (0.190 oversize)	65	31970	Spring, Governor
33	32024	Ring Set, Piston (0.200 oversize)	66	650998	Screw, Hex Hd., 10 - 24 x 2
34	32025	Ring Set, Piston (0.210 oversize)	67	33999	"O" Ring
35	32026	Ring Set, Piston (0.220 oversize)	68	650999	Washer, Lock
36	32027	Ring Set, Piston (0.230 oversize)	69	651000	Baffle, Blower Housing
37	32028	Ring Set, Piston (0.240 oversize)	70	651001	Screw, Hex Hd. Sems, 1/4 - 20 x 5/8
38	32029	Ring Set, Piston (0.250 oversize)	71	651002	Flywheel
39	32030	Ring Set, Piston (0.260 oversize)	72	651003	Pin, Flywheel
40	32031	Ring Set, Piston (0.270 oversize)	73	651004	Magnum, Solid State (Inc. No's. 158 & 160A)
41	32032	Ring Set, Piston (0.280 oversize)	74	610066	
42	32033	Ring Set, Piston (0.290 oversize)	75	610067	
43	32034	Ring Set, Piston (0.300 oversize)	76	610068	
44	32035	Ring Set, Piston (0.310 oversize)	77	610069	
45	32036	Ring Set, Piston (0.320 oversize)	78	610070	
46	32037	Ring Set, Piston (0.330 oversize)	79	610071	
47	32038	Ring Set, Piston (0.340 oversize)	80	610072	
48	32039	Ring Set, Piston (0.350 oversize)	81	610073	
49	32040	Ring Set, Piston (0.360 oversize)	82	610074	
50	32041	Ring Set, Piston (0.370 oversize)	83	610075	
51	32042	Ring Set, Piston (0.380 oversize)	84	610076	
52	32043	Ring Set, Piston (0.390 oversize)	85	610077	
53	32044	Ring Set, Piston (0.400 oversize)	86	610078	
54	32045	Ring Set, Piston (0.410 oversize)	87	610079	
55	32046	Ring Set, Piston (0.420 oversize)	88	610080	
56	32047	Ring Set, Piston (0.430 oversize)	89	610081	
57	32048	Ring Set, Piston (0.440 oversize)	90	610082	
58	32049	Ring Set, Piston (0.450 oversize)	91	610083	
59	32050	Ring Set, Piston (0.460 oversize)	92	610084	
60	32051	Ring Set, Piston (0.470 oversize)	93	610085	
61	32052	Ring Set, Piston (0.480 oversize)	94	610086	
62	32053	Ring Set, Piston (0.490 oversize)	95	610087	
63	32054	Ring Set, Piston (0.500 oversize)	96	610088	
64	32055	Ring Set, Piston (0.510 oversize)	97	610089	
65	32056	Ring Set, Piston (0.520 oversize)	98	610090	
66	32057	Ring Set, Piston (0.530 oversize)	99	610091	
67	32058	Ring Set, Piston (0.540 oversize)	100	610092	
68	32059	Ring Set, Piston (0.550 oversize)	101	610093	
69	32060	Ring Set, Piston (0.560 oversize)	102	610094	
70	32061	Ring Set, Piston (0.570 oversize)	103	610095	
71	32062	Ring Set, Piston (0.580 oversize)	104	610096	
72	32063	Ring Set, Piston (0.590 oversize)	105	610097	
73	32064	Ring Set, Piston (0.600 oversize)	106	610098	
74	32065	Ring Set, Piston (0.610 oversize)	107	610099	
75	32066	Ring Set, Piston (0.620 oversize)	108	610100	
76	32067	Ring Set, Piston (0.630 oversize)	109	610101	
77	32068	Ring Set, Piston (0.640 oversize)	110	610102	
78	32069	Ring Set, Piston (0.650 oversize)	111	610103	
79	32070	Ring Set, Piston (0.660 oversize)	112	610104	
80	32071	Ring Set, Piston (0.670 oversize)	113	610105	
81	32072	Ring Set, Piston (0.680 oversize)	114	610106	
82	32073	Ring Set, Piston (0.690 oversize)	115	610107	
83	32074	Ring Set, Piston (0.700 oversize)	116	610108	
84	32075	Ring Set, Piston (0.710 oversize)	117	610109	
85	32076	Ring Set, Piston (0.720 oversize)	118	610110	
86	32077	Ring Set, Piston (0.730 oversize)	119	610111	
87	32078	Ring Set, Piston (0.740 oversize)	120	610112	
88	32079	Ring Set, Piston (0.750 oversize)	121	610113	
89	32080	Ring Set, Piston (0.760 oversize)	122	610114	
90	32081	Ring Set, Piston (0.770 oversize)	123	610115	
91	32082	Ring Set, Piston (0.780 oversize)	124	610116	
92	32083	Ring Set, Piston (0.790 oversize)	125	610117	
93	32084	Ring Set, Piston (0.800 oversize)	126	610118	
94	32085	Ring Set, Piston (0.810 oversize)	127	610119	
95	32086	Ring Set, Piston (0.820 oversize)	128	610120	
96	32087	Ring Set, Piston (0.830 oversize)	129	610121	
97	32088	Ring Set, Piston (0.840 oversize)	130	610122	
98	32089	Ring Set, Piston (0.850 oversize)	131	610123	
99	32090	Ring Set, Piston (0.860 oversize)	132	610124	
100	32091	Ring Set, Piston (0.870 oversize)	133	610125	
101	32092	Ring Set, Piston (0.880 oversize)	134	610126	
102	32093	Ring Set, Piston (0.890 oversize)	135	610127	
103	32094	Ring Set, Piston (0.900 oversize)	136	610128	
104	32095	Ring Set, Piston (0.910 oversize)	137	610129	
105	32096	Ring Set, Piston (0.920 oversize)	138	610130	
106	32097	Ring Set, Piston (0.930 oversize)	139	610131	
107	32098	Ring Set, Piston (0.940 oversize)	140	610132	
108	32099	Ring Set, Piston (0.950 oversize)	141	610133	
109	32100	Ring Set, Piston (0.960 oversize)	142	610134	
110	32101	Ring Set, Piston (0.970 oversize)	143	610135	
111	32102	Ring Set, Piston (0.980 oversize)	144	610136	
112	32103	Ring Set, Piston (0.990 oversize)	145	610137	
113	32104	Ring Set, Piston (1.000 oversize)	146	610138	
114	32105	Ring Set, Piston (1.010 oversize)	147	610139	
115	32106	Ring Set, Piston (1.020 oversize)	148	610140	
116	32107	Ring Set, Piston (1.030 oversize)	149	610141	
117	32108	Ring Set, Piston (1.040 oversize)	150	610142	
118	32109	Ring Set, Piston (1.050 oversize)	151	610143	
119	32110	Ring Set, Piston (1.060 oversize)	152	610144	
120	32111	Ring Set, Piston (1.070 oversize)	153	610145	
121	32112	Ring Set, Piston (1.080 oversize)	154	610146	
122	32113	Ring Set, Piston (1.090 oversize)	155	610147	
123	32114	Ring Set, Piston (1.100 oversize)	156	610148	
124	32115	Ring Set, Piston (1.110 oversize)	157	610149	
125	32116	Ring Set, Piston (1.120 oversize)	158	610150	
126	32117	Ring Set, Piston (1.130 oversize)	159	610151	
127	32118	Ring Set, Piston (1.140 oversize)	160	610152	
128	32119	Ring Set, Piston (1.150 oversize)	161	610153	
129	32120	Ring Set, Piston (1.160 oversize)	162	610154	
130	32121	Ring Set, Piston (1.170 oversize)	163	610155	
131	32122	Ring Set, Piston (1.180 oversize)	164	610156	
132	32123	Ring Set, Piston (1.190 oversize)	165	610157	
133	32124	Ring Set, Piston (1.200 oversize)	166	610158	
134	32125	Ring Set, Piston (1.210 oversize)	167	610159	
135	32126	Ring Set, Piston (1.220 oversize)	168	610160	
136	32127	Ring Set, Piston (1.230 oversize)	169	610161	
137	32128	Ring Set, Piston (1.240 oversize)	170	610162	
138	32129	Ring Set, Piston (1.250 oversize)	171	610163	
139	32130	Ring Set, Piston (1.260 oversize)	172	610164	
140	32131	Ring Set, Piston (1.270 oversize)	173	610165	
141	32132	Ring Set, Piston (1.280 oversize)	174	610166	
142	32133	Ring Set, Piston (1.290 oversize)	175	610167	
143	32134	Ring Set, Piston (1.300 oversize)	176	610168	
144	32135	Ring Set, Piston (1.310 oversize)	177	610169	
145	32136	Ring Set, Piston (1.320 oversize)	178	610170	
146	32137	Ring Set, Piston (1.330 oversize)	179	610171	
147	32138	Ring Set, Piston (1.340 oversize)	180	610172	
148	32139	Ring Set, Piston (1.350 oversize)	181	610173	
149	32140	Ring Set, Piston (1.360 oversize)	182	610174	
150	32141	Ring Set, Piston (1.370 oversize)	183	610175	
151	32142	Ring Set, Piston (1.380 oversize)	184	610176	
152	32143	Ring Set, Piston (1.390 oversize)	185	610177	
153	32144	Ring Set, Piston (1.400 oversize)	186	610178	
154	32145	Ring Set, Piston (1.410 oversize)	187	610179	
155	32146	Ring Set, Piston (1.420 oversize)	188	610180	
156	32147	Ring Set, Piston (1.430 oversize)	189	610181	
157	32148	Ring Set, Piston (1.440 oversize)	190	610182	
158	32149	Ring Set, Piston (1.450 oversize)	191	610183	
159	32150	Ring Set, Piston (1.460 oversize)	192	610184	

### REPAIR PARTS

ROPER 14 H.P. GARDEN TRACTOR-MODEL NUMBER T43284R  
TECUMSEH 4 CYCLE ENGINE-MODEL NUMBER OH140160039B

CARBURETOR NO. 632032  
ALL ENGINE PARTS MUST BE PURCHASED THROUGH AND SERVICE PERFORMED BY YOUR LOCAL TECUMSEH DEALER.

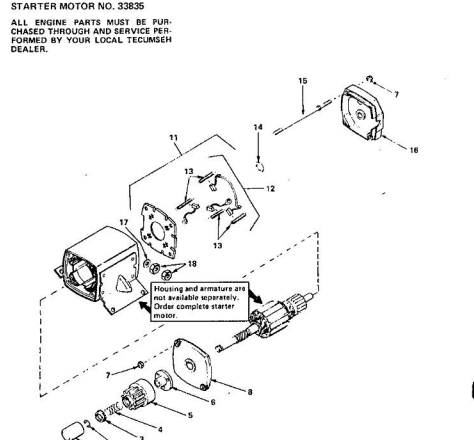


KEY NO.	PART NO.	DESCRIPTION	KEY NO.	PART NO.	DESCRIPTION
1	631881	Shaft & Lever Assy., Throttle (Inc. Key No. 2)	11	27109	*Gasket, Bowl-to-Body
2	30357	Screw, Hd. Hd., 6 - 32 x 3/16 (Early Production)	13	632024	*Valve, Seat & Spring Assy. (Inc. No. 9)
3	650506	Screw, Pan Hd. 4 - 40 x 3/16 (Late Production)	14	27106	Float
4	631882	Shutter, Throttle	15	27106	Shaft, Float
5	631883	Shaft & Lever Assy., Choke (Inc. Key No. 2)	17	29170	Bowl, Fuel
6	27113	Spring, Choke Stop	20	27110	*Gasket, Bowl-to-Body
7	650339	Spring, Throttle Adjusting	21	631764	*Needle Assy., Power Adjusting (Inc. No's. 20, 22, & 24)
8	27112	Screw, Throttle Adjusting	22	630786	Spring, Adjusting Needle
9	27114	Spring, Adjusting	23	631942	Needle, Main
10	632017	Spring, Float Shaft	24	27844	*O' Ring
11	631884	Shutter, Choke	25	632039	Seal, Throttle Shaft Dust
			26	632040	Seal, Choke Shaft Dust
			27	32098	Spring, Throttle Return
			28	632032	Repair Kit (Inc. Items Marked *)

### REPAIR PARTS

ROPER 14 H.P. GARDEN TRACTOR-MODEL NUMBER T43284R  
TECUMSEH 4 CYCLE ENGINE-MODEL NUMBER OH140160039B

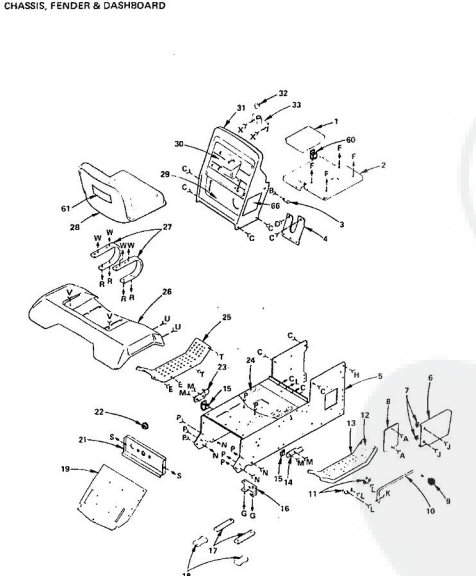
STARTER MOTOR NO. 33835  
ALL ENGINE PARTS MUST BE PURCHASED THROUGH AND SERVICE PERFORMED BY YOUR LOCAL TECUMSEH DEALER.



KEY NO.	PART NO.	DESCRIPTION	KEY NO.	PART NO.	DESCRIPTION
1	33841	Cover, Dust	12	33849	Brush & Spring Kit (Inc. 4 pcs. of No. 13)
2	33842	Ring, Retainer	13	33850	Spring, Brush
3	33843	Retainer, Spring	14	980500	Washer, Thrust
4	33844	Spring, Anti-Drill	15	33851	Bolt, 10 - 32 x 5 - 1/4
5	33845	Clear	16	33852	Cap Assy., Commutator end
6	33846	Nut, Engaging	17	950168	Washer, Flat
7	33847	Nut, Lock	18	650723	Nut, Hex
8	33848	Cap Assy., Drive End			
11	33848	Card Assy., Brush (Inc. No. 12)			

### REPAIR PARTS

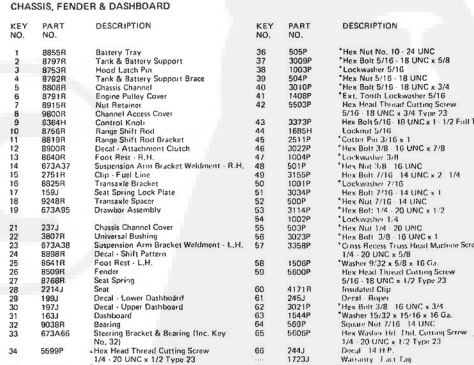
ROPER 14 H.P. GARDEN TRACTOR-MODEL NUMBER T43288R  
CHASSIS, FENDER & DASHBOARD



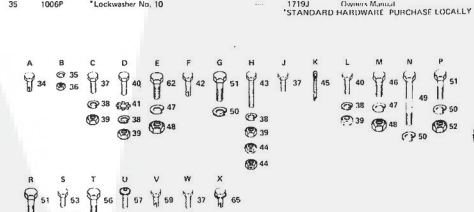
KEY NO.	PART NO.	DESCRIPTION	KEY NO.	PART NO.	DESCRIPTION
1	8945R	Battery Tray	36	505P	*Hex Nut No. 10 - 24 UNC
2	8797R	Tank & Battery Support	37	3009P	*Hex Bolt 5/16 - 18 UNC x 5/8
3	8755R	Head Latch Pin	38	1003P	*Lockwasher 5/16
4	8792R	Tank & Battery Support Brace	39	504P	*Hex Nut 5/16 - 18 UNC
5	8668R	Chassis Channel	40	3010P	*Hex Bolt 5/16 - 18 UNC x 3/4
6	8791R	Escape Pulley Cover	41	1408P	*Ext. Torx Lockwasher 5/16
7	8815R	Nut, Retainer	42	5503P	Hex Head Thread Cutting Screw 5/16 - 18 UNC x 2 1/2
8	8802R	Channel Access Cover	43	3373P	Hex Bolt 5/16 - 18 UNC x 1 1/2 Full T <sub>1</sub>
9	8364H	Control Knob	44	1686H	Locknut 5/16
10	8766R	Range Shift Rod	45	2511P	*Cutter Pin 3/16 x 1
11	8810R	Range Shift Rod Bracket	46	2022P	*Hex Bolt 3/8 - 16 UNC x 7/8
12	8900R	Decal - Attachment Clutch	47	1004P	*Lockwasher 3/8
13	8842R	Foot Rest - R.H.	48	5011P	*Hex Nut 3/8 - 16 UNC
14	67343Z	Suspension Arm Bracket Weldment - R.H.	49	3165P	Hex Bolt 7/16 - 14 UNC x 2 1/4
15	2751R	Clip - Fuel Line	50	1001P	*Lockwasher 7/16
16	8628R	Transaxle Bracket	51	3024P	*Hex Bolt 7/16 - 14 UNC x 1
17	105J	Seat Spring Lock Plate	52	500P	*Hex Nut 7/16 - 14 UNC
18	9248R	Transaxle Spacers	53	3114P	*Hex Bolt 1/4 - 20 UNC x 1 1/2
19	67345B	Driveline Assembly	54	1002P	*Lockwasher 1/4
21	237J	Chassis Channel Cover	55	500P	*Hex Nut 1/4 - 20 UNC
22	3807R	Universal Bushing	56	3023P	*Hex Bolt 3/8 - 16 UNC x 1
23	67343B	Suspension Arm Bracket Weldment - L.H.	57	3308P	*Cross Recess Thrust Head Machine Screw 1/4 - 20 UNC x 5/8
24	8888R	Decal - Shift Pattern	58	5600P	Hex Head Thread Cutting Screw 5/16 - 18 UNC x 1 1/2 Type 23
25	5041R	Foot Rest - L.H.	59	500P	*Hex Nut 1/4 - 20 UNC
26	8509R	Fender	60	4171R	Headrest Clip
27	8768R	Seat Spring	61	245J	Decal - Ripper
28	2214J	Seat	62	3021P	*Hex Bolt 3/8 - 16 UNC x 3/4
29	189J	Decal - Lower Dashboard	63	1544P	*Washer 15/32 x 15/16 x 16 Ga.
30	192J	Decal - Upper Dashboard	64	560P	Screw Nut 7/16 - 14 UNC
31	163J	Dashboard	65	560DP	Hex Washer Hd. Flat Contng Screw 1/4 - 20 UNC x 1 1/2 Type 23
32	9038R	Steering Bracket & Bearing (Inc. Key No. 23)	66	244J	Decal 14 H.P.
33	6599P	*Hex Head Thread Cutting Screw 1/4 - 20 UNC x 1 1/2 Type 23			
35	1006P	*Lockwasher No. 10			

### REPAIR PARTS

ROPER 14 H.P. GARDEN TRACTOR-MODEL NUMBER T43288R  
CHASSIS, FENDER & DASHBOARD



KEY NO.	PART NO.	DESCRIPTION	KEY NO.	PART NO.	DESCRIPTION
36	505P	*Hex Nut No. 10 - 24 UNC	37	3009P	*Hex Bolt 5/16 - 18 UNC x 5/8
37	3009P	*Hex Bolt 5/16 - 18 UNC x 5/8	38	1003P	*Lockwasher 5/16
38	1003P	*Lockwasher 5/16	39	504P	*Hex Nut 5/16 - 18 UNC
39	504P	*Hex Nut 5/16 - 18 UNC	40	3010P	*Hex Bolt 5/16 - 18 UNC x 3/4
40	3010P	*Hex Bolt 5/16 - 18 UNC x 3/4	41	1408P	*Ext. Torx Lockwasher 5/16
41	1408P	*Ext. Torx Lockwasher 5/16	42	5503P	Hex Head Thread Cutting Screw 5/16 - 18 UNC x 2 1/2
42	5503P	Hex Head Thread Cutting Screw 5/16 - 18 UNC x 2 1/2	43	3373P	Hex Bolt 5/16 - 18 UNC x 1 1/2 Full T <sub>1</sub>
43	3373P	Hex Bolt 5/16 - 18 UNC x 1 1/2 Full T <sub>1</sub>	44	1686H	Locknut 5/16
44	1686H	Locknut 5/16	45	2511P	*Cutter Pin 3/16 x 1
45	2511P	*Cutter Pin 3/16 x 1	46	2022P	*Hex Bolt 3/8 - 16 UNC x 7/8
46	2022P	*Hex Bolt 3/8 - 16 UNC x 7/8	47	1004P	*Lockwasher 3/8
47	1004P	*Lockwasher 3/8	48	5011P	*Hex Nut 3/8 - 16 UNC
48	5011P	*Hex Nut 3/8 - 16 UNC	49	3165P	Hex Bolt 7/16 - 14 UNC x 2 1/4
49	3165P	Hex Bolt 7/16 - 14 UNC x 2 1/4	50	1001P	*Lockwasher 7/16
50	1001P	*Lockwasher 7/16	51	3024P	*Hex Bolt 7/16 - 14 UNC x 1
51	3024P	*Hex Bolt 7/16 - 14 UNC x 1	52	500P	*Hex Nut 7/16 - 14 UNC
52	500P	*Hex Nut 7/16 - 14 UNC	53	3114P	*Hex Bolt 1/4 - 20 UNC x 1 1/2
53	3114P	*Hex Bolt 1/4 - 20 UNC x 1 1/2	54	1002P	*Lockwasher 1/4
54	1002P	*Lockwasher 1/4	55	500P	*Hex Nut 1/4 - 20 UNC
55	500P	*Hex Nut 1/4 - 20 UNC	56	3023P	*Hex Bolt 3/8 - 16 UNC x 1
56	3023P	*Hex Bolt 3/8 - 16 UNC x 1	57	3308P	*Cross Recess Thrust Head Machine Screw 1/4 - 20 UNC x 5/8
57	3308P	*Cross Recess Thrust Head Machine Screw 1/4 - 20 UNC x 5/8	58	5600P	Hex Head Thread Cutting Screw 5/16 - 18 UNC x 1 1/2 Type 23
58	5600P	Hex Head Thread Cutting Screw 5/16 - 18 UNC x 1 1/2 Type 23	59	500P	*Hex Nut 1/4 - 20 UNC
59	500P	*Hex Nut 1/4 - 20 UNC	60	4171R	Headrest Clip
60	4171R	Headrest Clip	61	245J	Decal - Ripper
61	245J	Decal - Ripper	62	3021P	*Hex Bolt 3/8 - 16 UNC x 3/4
62	3021P	*Hex Bolt 3/8 - 16 UNC x 3/4	63	1544P	*Washer 15/32 x 15/16 x 16 Ga.
63	1544P	*Washer 15/32 x 15/16 x 16 Ga.	64	560P	Screw Nut 7/16 - 14 UNC
64	560P	Screw Nut 7/16 - 14 UNC	65	560DP	Hex Washer Hd. Flat Contng Screw 1/4 - 20 UNC x 1 1/2 Type 23
65	560DP	Hex Washer Hd. Flat Contng Screw 1/4 - 20 UNC x 1 1/2 Type 23	66	244J	Decal 14 H.P.
66	244J	Decal 14 H.P.			

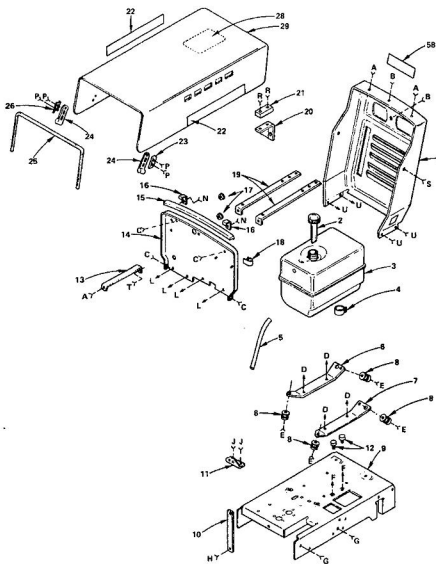


KEY NO.	PART NO.	DESCRIPTION	KEY NO.	PART NO.	DESCRIPTION																											
34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66

**REPAIR PARTS**

ROPER 14 H.P. GARDEN TRACTOR-MODEL NUMBER T43288R

ENGINE MOUNT, HOOD & GRILL



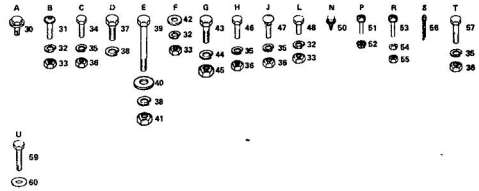
**REPAIR PARTS**

ROPER 14 H.P. GARDEN TRACTOR-MODEL NUMBER T43288R

ENGINE MOUNT, HOOD & GRILL

KEY NO.	PART NO.	DESCRIPTION	KEY NO.	PART NO.	DESCRIPTION
1	1547J	Grill	33	503P	*Hex Nut 1/4 - 20 UNC
2	8509R	Fuel Gauge	34	3003P	*Hex Bolt 5/16 - 18 UNC x 5/8
3	35J	Fuel Tank	35	1003P	*Lockwasher 5/16
4	8527R	Fuel Line	36	504P	*Hex Nut 5/16 - 18 UNC
5	8508R	Fuel Line - Overflow	37	3022P	*Hex Bolt 3/8 - 16 UNC x 7/8
6	5306S	Engine Isolator Mounting Bracket - L.H.	38	1004P	*Lockwasher 3/8
7	8205R	Engine Isolator Mounting Bracket - R.H.	39	3232P	*Hex Bolt Full Thread 3/8 - 16 UNC x 1/4
8	523A124	Hex Nut 1/4 - 20 UNC	40	1588P	*Washer 13/32 x 1 - 1/4 x 12 Ga.
9	673A201	Engine Base Weldment	41	501P	*Hex Nut 3/8 - 16 UNC
10	8518R	Engine Base Drive	42	1506P	*Washer 9/32 x 5/8 x 16 Ga.
11	1505R	Safety Switch Bracket	43	3034P	*Hex Bolt 7/16 - 14 UNC x 1
12	8304R	Snubber Mount	44	1001P	*Lockwasher 7/16
13	8780R	Dashboard Brace	45	500P	*Hex Nut 7/16 - 14 UNC
14	8784R	Heat Shield	46	3010P	*Hex Bolt 5/16 - 18 UNC x 3/4
15	9283R	Sealing Strip	47	16P	*Sp. Neck Carriage Bolt 5/16 - 18 UNC x 2/4
16	8934R	Sealing Strip Clamp	48	3114P	*Hex Bolt 1/4 - 20 UNC x 1/2
17	0151R	Snap Bushing	50	5001P	*Hex Washer Head Sheet Metal Screw No. 10 x 3/8 Type AB
18	4171R	Insulated Clip	51	3320P	*Cross Recess Pan Head Machine Screw No. 10 - 24 UNC x 1/2
19	8781R	Grill Brace	52	501P	*Hex Nut No. 10 - 24 UNC
20	8523R	Grill Bracket	53	3005P	*Cross Recess Pan Head Machine Screw No. 10 - 24 UNC x 1/2
21	9042R	Rubber Bumper	54	1005P	*Lockwasher No. 10
22	242J	Decal - Roper	55	501P	*Hex Nut No. 10 - 24 UNC
23	8925R	Hood Latch Cover - R.H.	56	2503P	*Cover Pin 3/32 x 2/4
24	8898R	Hood Latch	57	3011P	*Hex Bolt 5/16 - 18 UNC x 1
25	8927R	Hood Strip	58	253J	*Decal - Roper Logo
26	9012R	Hood Latch Cover - L.H.	59	5503P	*Screw, Hex Hd. Thread Cutting, Type 23 5/16 - 18 UNC x 3/4
28	8028R	Decal - Maintenance	60	1537P	*Washer 1/2 x 1 1/8 x 16 Ga.
29	673A202	Hood			
30	5000P	Hex Washer Head Thread Cutting Screw 5/16 - 18 UNC x 1/2 Type 23			
31	3077P	*Cross Recess Truss Head Machine Screw 1/4 - 20 UNC x 3/4			
32	1002P	*Lockwasher 1/4			

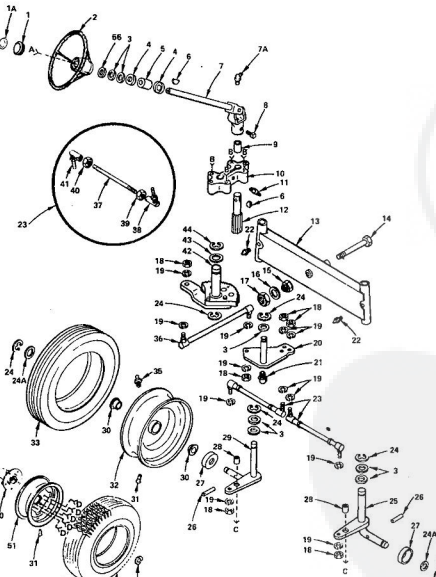
\*STANDARD HARDWARE-PURCHASE LOCALLY



**REPAIR PARTS**

ROPER 14 H.P. GARDEN TRACTOR-MODEL NUMBER T43288R

STEERING AND FRONT AXLE



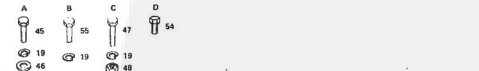
**REPAIR PARTS**

ROPER 14 H.P. GARDEN TRACTOR-MODEL NUMBER T43288R

STEERING AND FRONT AXLE

KEY NO.	PART NO.	DESCRIPTION	KEY NO.	PART NO.	DESCRIPTION
1	9719R	Steering Wheel Cap	29	673A10	Spindles Weldment - L.H.
1A	235J	Decal - Steering Wheel Cap	30	9040H	Flanged Bearing
2	3044R	Steering Wheel	31	735R	Tire Valve
3	1517P	Washer 25/32 x 1 - 1/4 x 16 Ga.	32	3526R	Front Wheel (Inc. Key No's. 30 & 35)
4	9007H	Cup - Steering Tube	33	3526R	Front Tire - Tubeless 16 x 6.50 - 8
5	5989R	Rubber Bushing	35	6266M	Grease Fitting
6	9958M1	Woodruff Key	36	8665R	Steering Drag Link
7	9929R	U-Joint (Inc. Key No. 7A)	37	673A19	Tie Rod (Inc. Key No's. 39 & 40)
7A	4545H	Grease Fitting	38	8922R	Tie Rod Joint - L.H. Thread
8	4503P	Sp. Hd. Set Screw 3/8 - 16 UNC x 1/2	39	547P	*Hex Jam Nut 3/8 - 24 UNF - L.H.
9	101J	"U" Joint Spacer	40	546P	*Hex Jam Nut 3/8 - 24 UNF
10	8529R	Steering Support Bracket	41	8521R	Tie Rod Joint - R.H. Thread
11	6842M	Grease Fitting	42	673A17	Steering Sector Assy.
12	151J	Steering Pawl	43	1516P	Washer 25/32 x 1 - 1/4 x 16 Ga.
13	673A26	Front Axle Weldment	44	5017P	E-Ring
14	8916H	Shoulder Nut	45	3023P	*Hex Bolt 3/8 - 16 UNC x 1
15	156J	Shoulder Nut	46	1517P	*Washer 7/16 x 1 1/4 x 14 Ga.
16	1503P	*Washer 21/32 x 1 - 5/16 x 13 Ga.	47	3028P	*Hex Bolt 3/8 - 16 UNC x 1 - 3/4
17	523P	*Hex Jam Nut 5/8 - 11 UNC	48	501P	*Hex Nut 3/8 - 16 UNC
18	515P	*Hex Nut 3/8 - 24 UNF	49	7563R	Axle Thrust Washers
19	1004P	*Lockwasher 3/8	50	6544002	Wheel Hub and Bushing
20	673A30	Steering Bell Crank Weldment	51	3535R	Rear Wheel
21	6853M	Grease Fitting	52	3765R	Rear Tire - Tubeless 23.0 x 8.50 - 12
22	6853M	Grease Fitting	53	5845R	E-Ring
23	673A15	Steering Tie Rod (Inc. Key No's. 37 thru 41)	54	1524H	Hub Bolt
24	5000P	E-Ring	55	3022P	*Hex Bolt 3/8 - 16 UNC x 7/8
24A	1021P	Washer 25/32 x 1 - 5/8 x 16 Ga.			
25	673A20	Spindles Weldment - R.H.			
26	8530R	Grease Pin			
27	8781R	Dust Cap			
28	8507R	Bushing - Steering Stop			

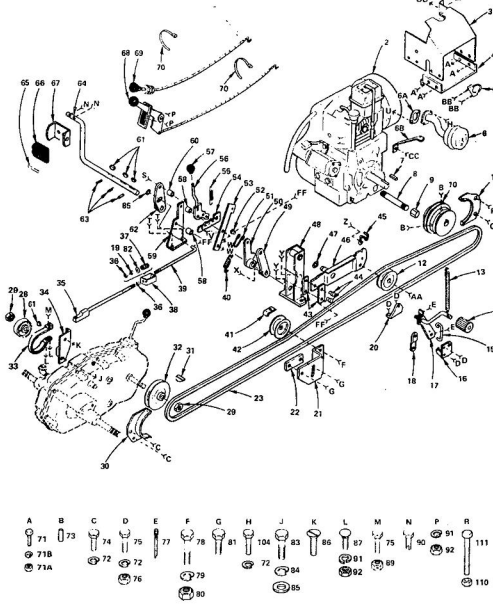
\*STANDARD HARDWARE-PURCHASE LOCALLY



**REPAIR PARTS**

ROPER 14 H.P. GARDEN TRACTOR-MODEL NUMBER T43288R

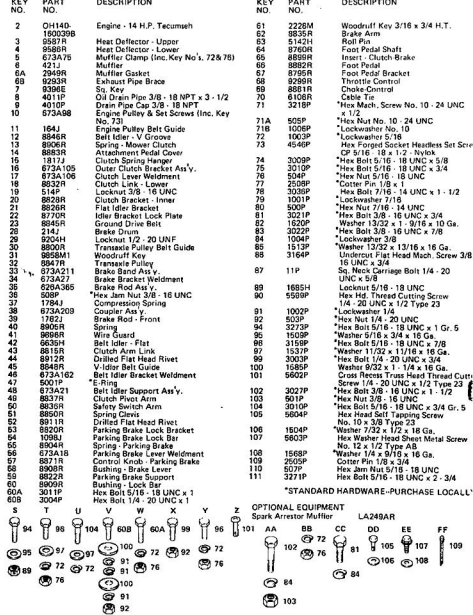
**CLUTCH-BRAKE & DRIVE**



**REPAIR PARTS**

ROPER 14 H.P. GARDEN TRACTOR-MODEL NUMBER T43288R

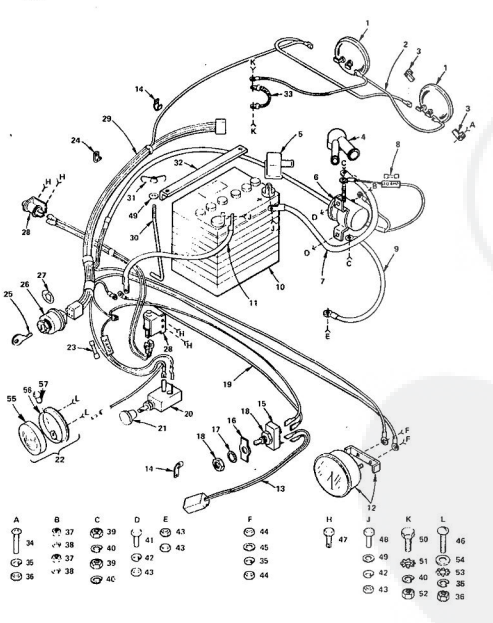
**CLUTCH-BRAKE & DRIVE**



**REPAIR PARTS**

ROPER 14 H.P. GARDEN TRACTOR-MODEL NUMBER T43288R

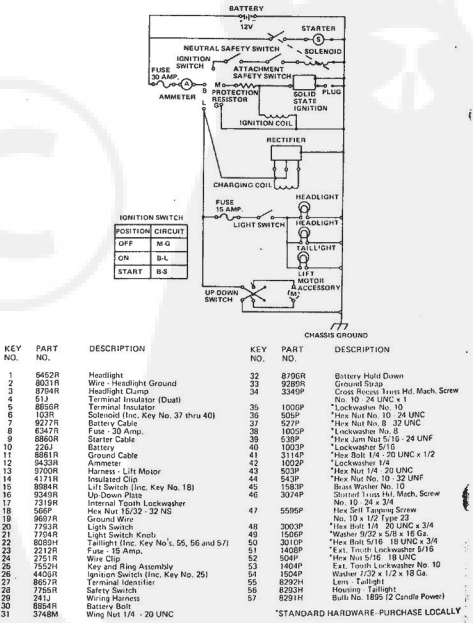
**ELECTRICAL**



**REPAIR PARTS**

ROPER 14 H.P. GARDEN TRACTOR-MODEL NUMBER T43288R

**ELECTRICAL**

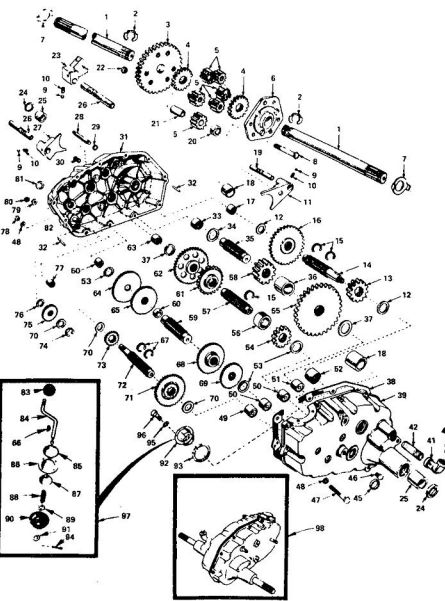




### REPAIR PARTS

ROPER 14 H.P. GARDEN TRACTOR-MODEL NUMBER T4328BR

#### TRANSAXLE



### REPAIR PARTS

ROPER 14 H.P. GARDEN TRACTOR-MODEL NUMBER T4328BR

#### TRANSAXLE

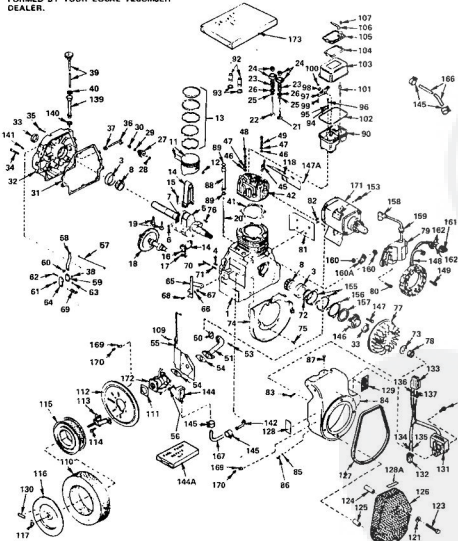
KEY NO.	PART NO.	DESCRIPTION	KEY NO.	PART NO.	DESCRIPTION
1	4197R	Axle Shaft	46	4895H	Needle Bearing
2	5845R	Retaining Ring	50	4222R	Needle Bearing
3	4199R	Front Drive Gear	51	4529R	Needle Bearing
4	4216R	Differential Gear	52	8115M	Needle Bearing
5	4215R	Differential Pinion	53	4222R	Thrust Bearing Race
6	4217R	Differential Carrier	54	4205R	3rd Reduction Pinion - Low
7	6256H	Axle Thrust Washer	55	4212R	4th Reduction Gear Shaft
8	3065P	Hex Bolt 5/8" - 24 UNF x 3 - 1/4 (1" Thread Length)	56	444276	3rd Reduction Pinion Spacer
9	7392M	Steel Ball	57	4195R	2nd Reduction Gear Shaft
10	6272H	Spring Shift Fork Detent	58	4714R	Front Drive Pinion
11	4956R	Shift Fork, High - Low Range	59	4194R	1st Reduction Gear Shaft
12	6268H	Thrust Bearing Race	60	3528R	1st Reduction Shaft Spacer
13	4212R	4th Reduction Pinion	61	4208R	3rd Reduction Pinion - High
14	4196R	3rd Reduction Gear Shaft	62	4207R	2nd Reduction Gear
15	6276H	Snap Ring - Crescent Type	63	7398H	Needle Bearing
16	633AC3	High - Low Range Clutch	64	4202R	Low Speed Gear and 2nd Reduction Pinion Clutch
17	8118M	Needle Bearing	65	4204R	Reverse Gear
18	6746M1	Sintered Iron Bearing	66	7355M	Woodruff Key 1/8 x 1/2
19	8217H	Shift Fork Shaft, High - Low Range	67	4926H	Snap Ring - Crescent Type
20	4218R	Differential Pinion Spacer	68	4205R	Intermediate Speed Gear
21	6262H1	Differential Pinion Bushing	69	4206R	High Speed Gear
22	7810H	Crescent Gearlock Nut 3/8" - 24 UNF	70	1306H	Thrust Bearing Race
23	4985R	Shift Fork - L.H.	71	633A69	Intermediate and High Speed Clutch Pinion
24	7393H	Clutch Pinion	72	4193R	Input Shaft
25	9221H	Sintered Iron Bearing	73	4201R	Low Speed Pinion
26	6216H	Shift Fork - R.H.	74	5001P	E-Ring
27	6294H	Shift Fork - R.H.	75	1533R	Reverse Idler Gear
28	9912R	Shift Shaft, High - Low Range	76	7382H	Reverse Idler Gear Thrust Washer
29	6269H	Oil Seal	77	6252H	Needle Bearing
30	5855H	Pressure Relief Valve	78	5259H	*Hex Nut 5/16" - 18 UNC
31	633A65	Gearcase, Reverse Idler Shaft and Bearings - R.H. (Inc. Key No. 17, 18, 25, 23, 50, 63, 76, 77 and 82)	79	1187R	Washing Washer
32	6272H	Dowel Pin	81	6270H	Oil Seal
33	4223R	Needle Bearing	82	7384H	Reverse Idler Shaft
34	7398H	Thrust Bearing Race	83	6364H	Control Knob
35	4198R	4th Reduction Gear Shaft	84	6011H	Gear Shift Lever - Bent
36	4200R	4th Reduction Gear Shaft	85	9013R	Gear Shift Cap
37	7398H	Thrust Bearing Race	86	633A68	Gear Shift Ball Cover and Pin
38	6279H	Gearcase Gasket	87	8739H1	Shift Lever Guide Ball - Keyed
39	633A64	Gearcase and Bearings - L.H. (Inc. Key No. 18, 25, 45, 50 (2), 51 and 52)	88	4244H	Spring
40	4002P	Pin Plug 1/2" - 14 N.P.T.	89	1053P	*Washer 10/32 x 5/16" x 16 Ga.
41	4015P	Elbow 90° 1/2" - 14 N.P.T.	90	8105R	*Shift Mechanism Seal
42	4014P	90° Tee 1/2" - 14 N.P.T. x 3	91	1569H	*Washer 1/4" x 15/16" x 11 Ga.
43	6271H	Oil Seal	92	75J	Gear Shift Gaiter
44	4003P	Pin Plug 1/4" - 18 N.P.T.	93	6274H	Shift Ball Cover Gasket
45	6271H	Oil Seal	94	2505P	*Cover 1/8" x 2 1/4"
46	4003P	Pin Plug 1/4" - 18 N.P.T.	95	1003P	*Lockwasher 6/16"
47	3087P	*Hex Bolt 5/16" - 18 x 1 - 1/2 Grade 5	96	3166P	*Hex Bolt 5/16" - 18 UNC x 7/8
48	1007P	*Lockwasher 5/16 Extra Heavy	97	633A87	Gear Shift Lever Assy
			98	633A84	Transaxle Assembly Less Brake Drum & Shift Lever Assy

\*STANDARD HARDWARE-PURCHASE LOCALLY

### REPAIR PARTS

ROPER 14 H.P. GARDEN TRACTOR-MODEL NUMBER T4328BR  
TECUMSEH 4 CYCLE ENGINE-MODEL NUMBER OH140-1600398

ALL ENGINE PARTS MUST BE PURCHASED THROUGH AND SERVICE PERFORMED BY YOUR LOCAL TECUMSEH DEALER.



### REPAIR PARTS

ROPER 14 H.P. GARDEN TRACTOR-MODEL NUMBER T4328BR  
TECUMSEH 4 CYCLE ENGINE-MODEL NUMBER OH140-1600398

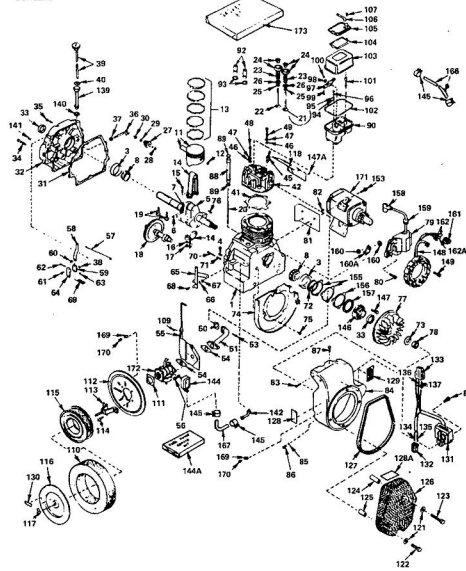
KEY NO.	PART NO.	DESCRIPTION	KEY NO.	PART NO.	DESCRIPTION
1	33523	Cylinder Assy. (Inc. No's. 4, 33 & 141)	34	30084	Screw, Hex Hd. Sems, 1/4" - 20 x 1
3	31278	Cup, Bearing	35	650268	Screw, Hex Hd. Sems, 1/4" - 20 x 2
4	27652	Pin, Dowel	36	32579	Rod Assy. Governor
5	33397	Crankshaft Assy. (Inc. No's. 3, 6, 7 & 8)	37	32426	Spacer, Governor Rod
6	22163	Pin, Crankshaft Cap	38	29193	Ring, Retaining
7	31931	Gear, Crankshaft	39	33764	Distric, Oil Fil. (Inc. No. 40)
8	31532	Bearing, Tapered Roller	40	29085	O-Ring
11	32001A	Piston & Pin Assy. (Inc. No. 12) (Std.)	41	33474	*Gasket, Cylinder Head
11	32002	Piston & Pin Assy. (Inc. No. 12) (I/O oversize)	42	31923	Spring, Cylinder (Inc. No. 92)
11	32003	Piston & Pin Assy. (Inc. No. 12) (I/O oversize)	45	33657	Plug, Spark (Champion L-85 or equivalent except for Capcode)
11	32610	Piston & Pin Assy. (Inc. No. 12) (I/O oversize)	45	34046	Restrictor Spark Plug (Canadian Regulated engine - B5 restrictor spark plug)
11	32620	Piston & Pin Assy. (Inc. No. 12) (I/O oversize)	46	65030	Washer, Flat
12	31910	Ring, Piston Pin Retaining	47	65030	Washer, Bellville
13	32004	Ring Set, Piston (Std.)	48	650692	Screw, Hex Hd. 5/16" - 18 x 1 - 3/4
13	32005	Ring Set, Piston (I/O oversize)	48	650746	Screw, Hex Hd. 5/16" - 18 x 1 - 3/8
13	32006	Ring Set, Piston (I/O oversize)	50	33515	*Gasket, Intake Pipe
13	32007	Ring Set, Piston (I/O oversize)	51	33476	Pin, Intake
13	32024	Ring Set, Piston (I/O oversize)	53	79202B	Screw, Hex Hd. Sems 5/16" - 18 x 7/8
14	33033A	Rod Assy., Connecting (Inc. No's. 15, 16 & 17)	54	33476	*Gasket, Carburetor
15	32077	Bolt, Connecting Rod	55	33477A	Elbow, Air Extension
16	26073	Washer, Connecting Rod	56	650278	Screw, Fil. Hd. Sems, 5/16" - 18 x 1 - 1/8
17	26264	Nut, Lock	57	33478	Link, Governor
18	33170	Camshaft (Mech. Compression Release)	58	31983	Link, Governor Adjusting
19	33472	Liter, Valve (Std.)	59	31984	Clamp, Governor Lever
20	33471	Rad. Push	60	625313	Lockwasher No. 10 E.T.
21	33565	Valve, Intake (Std.)	61	39312	Screw, Hex Washer Hd., 10 - 32 x 1/2
21	33566	Valve, Intake (I/O oversize)	62	625264	*Screw, Flat Hd., 10 - 24 x 7/8
22	33640	Valve, Exhaust (Std.)	63	7976	Nut, Square, 10 - 24
22	33641	Valve, Exhaust (I/O oversize)	64	31865	Plate, Governor Spring
24	33508	Returner & Cap Set, Keeper Valve	65	31984A	Lever Assy., Control
25	33667	Spring, Valve	66	28258	Washer, Valve
26	33510	Clc, Valve	67	31868	Bushing, Governor Lever
27	33473	Washer, Flat	68	650307	Screw, Hex Washer Hd., 10 - 24 x 5/8
28	36555A	Washer, Flat	69	31867	Spring, Governor
29	31948	Spool, Governor	70	650301	Screw, Fil. Hd., 10 - 24 x 2
30	31567	Gasket, Cylinder Cover	71	33590	Spring, Locking
31	32085	Cover Assy., Cylinder (Inc. No's. 33, 36, 37, 38, 40, 141)	72	32599	O-Ring
33	31950	Soal, Oil	73	650306	Washer, Lock
			74	33278	Waffle, Blower Housing
			75	650510	Screw, Hex Hd. Sems, 1/4" - 20 x 5/8
			76	650502	Nut, Flywheel
			77	610900	Flywheel
			78	650504	Nut, Flywheel
			79	610900	Magneto, Solid State (Inc. No's. 158 thru 160A)

\*INDICATES PARTS INCLUDED IN GASKET SET KEY NO. 173)

### REPAIR PARTS

ROPER 14 H.P. GARDEN TRACTOR-MODEL NUMBER T4328BR  
TECUMSEH 4 CYCLE ENGINE-MODEL NUMBER OH140-160038R

ALL ENGINE PARTS MUST BE PURCHASED THROUGH AND SERVICE PERFORMED BY YOUR LOCAL TECUMSEH DEALER.



### REPAIR PARTS

ROPER 14 H.P. GARDEN TRACTOR-MODEL NUMBER T4328BR  
TECUMSEH 4 CYCLE ENGINE-MODEL NUMBER OH140-160038R

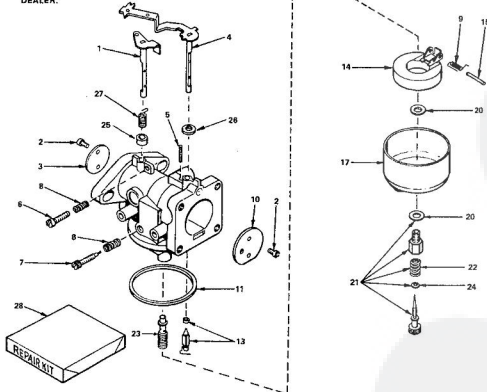
KEY NO.	PART NO.	DESCRIPTION	KEY NO.	PART NO.	DESCRIPTION
80	650661	Screw, Fil. Hd. w/Conical Spring Lockwasher, 1/4" - 20 x 3/4	125	34379	Spacer, Screen
81	33479	Extension, Blower Housing	126	34376	Screen Assy., Blower Housing (Inc. No. 34377)
82	36088	Screw, Hex Hd. Sems. 1/4" - 20 x 1/2	127	34377	Seal, Guard
83	650751	Screw, Hex Hd. w/Conical Spring Washer, 1/4" - 20 x 1/16	128	34346	Decal, Name & Instruction
84	33775A	Housing, Blower	128A	34387	Instruction Decal
85	8274	Lockwasher, Split, 5/16"	129	34316	Decal, Name
86	650565	Screw, Hex Hd., 5/16" - 24 x 3/8	130	32564	Decal, Air Cleaner
87	650752	Screw, Hex Hd. Sems., 1/4" - 20 x 7/16	131	610988	Regulator, Rectifier (Inc. No.'s 137 & 137A)
88	33481	"O" Ring	132	610921	Connector
89	33482	Housing, Rocker Arm	133	610990	Connector
90	33487	Yoke Guide Kit (Inc. No. 93)	134	610952	Terminal
91	750195	Ring, Retaining	135	610989	Terminal
92	34315	Ring, Retaining	136	610992	Terminal
93	33464	Washer, Flat	137	610991	Terminal
94	650168	Washer, Flat	138	33468	Oil Filler
95	22010A	Screw, Flange Hex Hd., 1/4" - 20 x 28/32	140	28673	Gasket, Oil Fill Tube
96	33485	Arm, Rocker	141	31927	Plug, Pipe (2/8" - 18 Ga. Hd.)
97	33486	Ring, Retaining	142	32958	Fitting, Fuel Pump
98	650755	Screw, Adjusting	144	32959	Pump, Impulse Fuel
99	650756	Nut, Hex	144A	33010	Repair Kit, Impulse Fuel Pump
100	650757	Stud, Rocker Arm Cover	145	25610	Camo, Fuel Line
101	33487	"O" Ring	146	32577	Cover, Cylinder (See Note 1)
102	33488	Cover, Rocker Arm	147	650208	Screw, Hex Hd. Sems. 5/16" - 18 x 7/8
103	31658	Gasket, Breather	147A	650738	Screw, Pan Hd., 10 - 16 x 3/8
104	33489	Body Assy., Breather	148	610902	Coil Assy., Alternator (Inc. No.'s 151, 152 & 152A)
105	33490	Tube, Breather	149	650521	Screw, Fil. Hd. Sems 10 - 32 x 1 - 1/4"
106	30102	Screw, Hex Washer Hd. Sems. w/Mastic	153	650781	Screw, Hex Hd. Sems. 5/16" - 18 x 11
107	650738	Washer 10 - 32 x 5/8	155	31971	Gasket, Shim (205/005 thick, see note 1)
110	22906	Filter, Pre-Air	156	31972	Gasket, Shim (205/007 thick, see note 1)
111	33492	Gasket, Air Cleaner	157	30031	Spacer, Steel (010 thick, see note 1)
112	33777	Bracket, Air Cleaner	158	610118	Cover, Spark Plug
113	33778	Bracket, Air Cleaner	159	610760	Terminal
114	650289	Screw, Fil. Hd. Sems. 10 - 32 x 5/8	160	610408	Nut, Hex. 8 - 32
115	22907	Element, Air Cleaner	162A	610908	Terminal
116	22904	Cover, Air Cleaner	161	610903	Connector, Pyramid
117	650513	Nut, Hex	162	610905	Terminal
118	33495	Cover, Cylinder Head	162A	610904	Terminal
119	27028	Washer, Lock	163	32962	Line, Fuel
120	650288	Screw, Truss Hd. 1/4" - 28 x 1 - 3/8	167	34367	Line, Fuel
121	650909	Screw, Truss Hd. 1/4" - 28 x 1 - 9/16	169	27953	Clip, Corbel
122	34378	Spacer, Screen	170	28842	Screw, Hex Hd. Sems. 10 - 32 x 3/8
123	34379	Spacer, Screen	171	33832	Motor, Starter (12 Volt) (Inc. No. 152)
124	34378	Spacer, Screen	172	632032	Carburetor (Inc. No. 64)
			173	33816A	Gasket Set (Inc. items marked *)

\*Indicates Parts Included in Gasket Set Key No. 173  
NOTE: Determine the gap between the cover and the machined surface on the cylinder, which can be from .001" up to .007" in which case no shim gaskets will be required. Use of gaskets must be limited to a combined total of .010" thick. Steel spacers must be used as required to eliminate crankshaft end play.

### REPAIR PARTS

ROPER 14 H.P. GARDEN TRACTOR-MODEL NUMBER T4328BR  
TECUMSEH 4 CYCLE ENGINE-MODEL NUMBER OH140-160038R

CARBURETOR NO. 632032  
ALL ENGINE PARTS MUST BE PURCHASED THROUGH AND SERVICE PERFORMED BY YOUR LOCAL TECUMSEH DEALER.

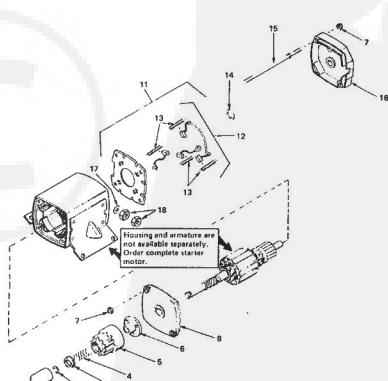


KEY NO.	PART NO.	DESCRIPTION	KEY NO.	PART NO.	DESCRIPTION
1	631681	Shaft & Lever Assy., Throttle (Inc. Key No. 2)	11	27109	*Gasket, Bowl-to-Body
2	30357	Screw, Rd. Hd., 6 - 32 x 3/16 (Early Production)	13	632024	*Valve, Seat & Spring Assy. (Inc. No. 9)
3	650506	Screw, Pan Hd., 4 - 40 x 3/16 (Late Production)	14	27105	Float
4	631682	Shutter, Throttle	15	27106	*Shaft, Float
5	631683	Shaft & Lever Assy., Choke (Inc. Key No. 2)	17	29170	Bowl, Fuel
6	650289	Screw, Throttle Adjusting	20	27110	*Gasket, Bowl-to-Body
7	27112	Needle, Idle Adjusting	21	631764	*Needle Assy., Power Adjusting (Inc. No. 8, 20, 22, & 24)
8	27114	Spring, Adjusting	22	630768	Spring, Adjusting Needle
9	632017	Spring, Float Shaft	23	631942	Nozzle, Main
10	631684	Shutter, Choke	24	27644	"O" Ring
			25	632029	Seal, Throttle Shaft Dust
			26	632040	Seal, Choke Shaft Dust
			27	32096	Spring, Throttle Return
			28	632033	Repair Kit (Inc. Items Marked *)

### REPAIR PARTS

ROPER 14 H.P. GARDEN TRACTOR-MODEL NUMBER T4328BR  
TECUMSEH 4 CYCLE ENGINE-MODEL NUMBER OH140-160038R

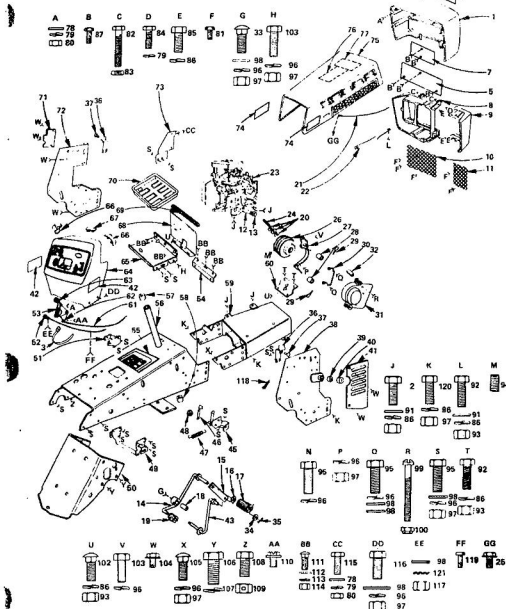
STARTER MOTOR NO. 33835  
ALL ENGINE PARTS MUST BE PURCHASED THROUGH AND SERVICE PERFORMED BY YOUR LOCAL TECUMSEH DEALER.



KEY NO.	PART NO.	DESCRIPTION	KEY NO.	PART NO.	DESCRIPTION
1	33841	Cover, Dust	12	33849	Brush & Spring Kit (Inc. 4 pos. of No. 13)
2	33842	Ring, Retainer	13	33850	Spring, Brush
3	33843	Retainer, Spring	14	500650	Washer, Thrust
4	33844	Screw, Anti-Dirt	15	33511	Bolt, 10 - 32 x 1/4
5	33845	Cap, Engaging	16	33852	Cap Assy., Commutator end
6	33433	Nut, Engaging	17	650168	Washer, 1/16"
7	33450	Nut, Lock	18	650723	Nut, Hex
8	33845	Cap Assy., Drive End			
11	33848	Carb Assy., Brush (Inc. No. 12)			

**REPAIR PARTS**

ROPER 16T GARDEN TRACTOR-MODEL NO. T6328AR  
MAIN FRAME, DASH AND GRILL



**REPAIR PARTS**

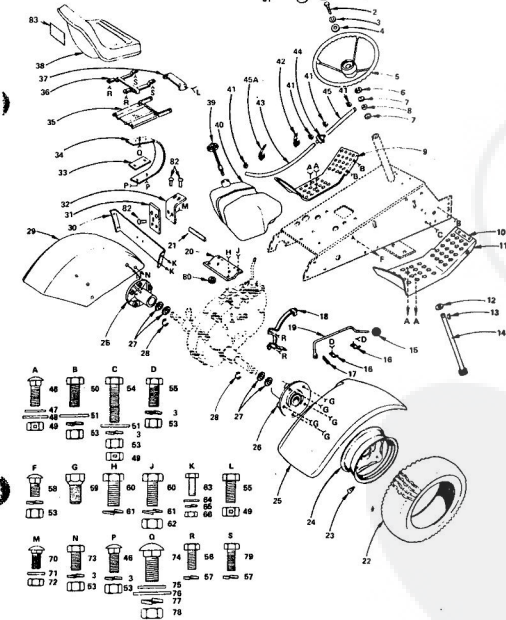
ROPER 16T GARDEN TRACTOR-MODEL NO. T6328AR  
MAIN FRAME, DASH AND GRILL

KEY NO.	PART NO.	DESCRIPTION	KEY NO.	PART NO.	DESCRIPTION
1	811J	Grill - Upper	66	107J	Battery Heat Shield
2	3012P	Hex Bolt 5/16 - 18 x 1 - 1/4	69	784R	Battery Tray
3	6106R	Trim - Wire	70	806AR	Battery - 17V
4	246J	Decal - Grill	71	88J	Cover - L.H.
5	231J	Grill Panel - Upper	72	113J	Bracket - Battery Support - L.H.
6	290J	Grill Panel - Lower	73	1181J	Bracket - Receiver
7	8052J	Grill - Lower	74	246J	Decal - Report Logo
8	7938R	Grill Side	75	634AR7	Mood Assy
9	8244R	Grill Screen - L.H.	76	8028R	Decal - Instruction
10	2672R	Grill Screen - R.H.	77	292J	Decal - Wiring
11	4016P	Pipe Washer 3/8 - 18 N.P.T. x 4 - 1/2	78	1066P	Washer 9/32 x 3/8 x 1/8 Ga.
12	4016P	Pipe Cap 3/8 - 18 N.P.T.	79	1032P	Lockwasher 1/4
13	634A901	Flare Weldment	80	502P	Hex Nut 1/4 - 20 UNC
14	634A901	Flare Weldment	81	5501P	Phillips Pan Hd. Tnc. Self Tap 1/8 - 24 x 3/8 Tpi
15	92J	Push-On Nut	82	2567P	*Hex Bolt 1/4 - 20 x 1 - 1/2 Grade 5
16	92J	Push-On Nut	83	1056H	Lockwasher 1/4 - 20 UNC
17	91J	Washer 1/16 x 2 x .140	84	3003P	*Hex Bolt 1/4 - 20 x 3/4
18	91J	Washer 1/16 x 2 x .140	85	3011P	*Hex Bolt 5/16 - 18 x 3/4
19	1006P	Grill Cable	86	1003P	*Lockwasher 5/16
20	1006P	Grill Cable	87	5554P	Phillips Pan Hd. Tnc. Self Tap 10 - 16 Hex-Head x 1/2 Blue Point Washer 11/32 x 1/16 x 1/8 Ga.
21	101J	Grill Brace	88	901P	*Hex Bolt 5/16 - 18 x 1
22	101J	Grill Brace	89	1537P	*Hex Bolt 3/8 - 16 x 1
23	4314R	Spring, Saddle and Strutton 18 H.P.	90	1056H	Lockwasher 1/4 - 20 UNC
24	898E	Sq. Key 1/4 x 2	91	1537P	*Hex Bolt 3/8 - 16 x 1
25	1584P	Hex Washer Hd. Tnc. Cutting Screw 1/4 - 20 x 3/4 Type T	92	3011P	*Hex Bolt 5/16 - 18 x 3/4
26	634A104	Retainer Spring	93	1056H	Lockwasher 1/4 - 20 UNC
27	634A104	Retainer Spring	94	4540P	*Hex Flanged Socket Hdless. Set Screw 5/16 - 18 x 1
28	4830A	Retainer Spring	95	1003P	*Lockwasher 5/16
29	4830A	Retainer Spring	96	501P	*Hex Bolt 3/8 - 16 x 1
30	634A500	Self Seal	97	501P	*Hex Bolt 3/8 - 16 x 1
31	634A500	Self Seal	98	1513P	Washer 13/32 x 1/16 x 1/8 Ga.
32	56P	Sq. Neck Carriage Bolt 3/8 - 16 x 2 - 1/4	99	3194P	Sq. Hd. Machine Screw 1/4 - 20 x 2
33	56P	Sq. Neck Carriage Bolt 3/8 - 16 x 2 - 1/4	100	847R	Phillips No. 114 - 20 UNC
34	634A500	Self Seal	101	8P	Carriage Bolt 5/16 - 18 x 3/4
35	2566P	Head Lock	102	8P	Carriage Bolt 5/16 - 18 x 3/4
36	634A500	Self Seal	103	1003P	*Lockwasher 5/16
37	8427R	Support Bumper	104	8567P	Hex Washer Hd. Tnc. Cutting Screw 1/4 - 20 x 1/2 Type T
38	634A500	Self Seal	105	61P	Sq. Neck Carriage Bolt - Short Shoulder 3/8 - 16 x 1 Gr. 5
39	7766R	Bearing	106	3038P	*Hex Bolt 7/16 - 14 x 1 - 1/4
40	7766R	Bearing	107	1003P	*Lockwasher 5/16
41	7722R	Cover - R.H.	108	3021P	Locknut 3/8 - 18 UNC
42	634A500	Self Seal	109	3021P	Locknut 3/8 - 18 UNC
43	634A500	Self Seal	110	6055P	Hex Sh. Hd. Machine Screw w/Serfs 1/4 - 20 x 2
44	634A500	Self Seal	111	53P	Sq. Neck Carriage Bolt 1/2 - 24 x 1/2
45	634A500	Self Seal	112	1003P	*Lockwasher 5/16
46	7844R	Trim - Front	113	1003P	*Lockwasher 5/16
47	7844R	Trim - Front	114	3114P	*Hex Bolt 1/4 - 20 x 1/2
48	7810R	Locknut 3/8 - 24 UNF	115	3114P	*Hex Bolt 1/4 - 20 x 1/2
49	7810R	Locknut 3/8 - 24 UNF	116	3114P	*Hex Bolt 1/4 - 20 x 1/2
50	634A500	Self Seal	117	516P	*Hex Nut 3/8 - 16 x 1 - 1/2
51	634A500	Self Seal	118	516P	*Hex Nut 3/8 - 16 x 1 - 1/2
52	7161J	Choke Control	119	6592P	*Socket Pan Hd. Self Tap Screw 1/4 - 20 x 3/8 Tpi
53	7161J	Choke Control	120	3137P	*Hex Bolt 3/8 - 18 x 1 - 1/4 Gr. 5
54	97J	Adapter Bar	121	1003P	*Lockwasher 5/16
55	9648R	Decal - Shift Return	122	1003P	*Lockwasher 5/16
56	634A500	Self Seal	123	1003P	*Lockwasher 5/16
57	634A500	Self Seal	124	1003P	*Lockwasher 5/16
58	4766H	Bearing	125	1003P	*Lockwasher 5/16
59	634A500	Self Seal	126	1003P	*Lockwasher 5/16
60	96J	Grill Spacer	127	1003P	*Lockwasher 5/16
61	851J	Trim Mount Assy.	128	1003P	*Lockwasher 5/16
62	8254R	Clamp	129	1003P	*Lockwasher 5/16
63	8254R	Clamp	130	1003P	*Lockwasher 5/16
64	634A500	Self Seal	131	1003P	*Lockwasher 5/16
65	105J	Throttle Control Knob	132	1003P	*Lockwasher 5/16
66	1998R	Dashboard (Inc. Key No's. 86 and 67)	133	1003P	*Lockwasher 5/16
67	8971R	Clip - Dashboard, Center	134	1003P	*Lockwasher 5/16

\*STANDARD HARDWARE - PURCHASE LOCALLY

**REPAIR PARTS**

ROPER 16T GARDEN TRACTOR-MODEL NO. T6328AR  
STEERING AND FINAL DRIVE



**REPAIR PARTS**

ROPER 16T GARDEN TRACTOR-MODEL NO. T6328AR  
STEERING AND FINAL DRIVE

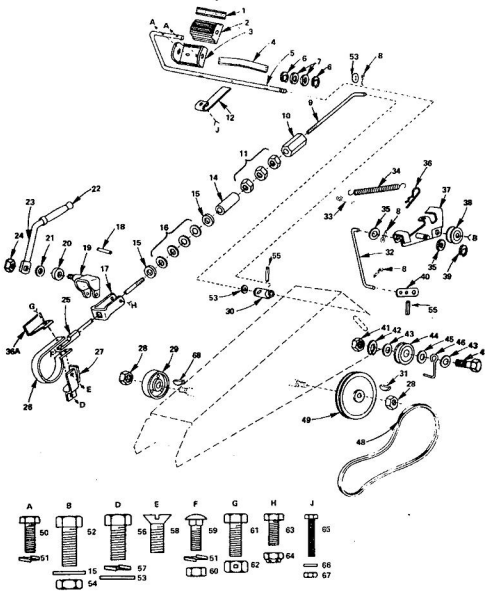
KEY NO.	PART NO.	DESCRIPTION	KEY NO.	PART NO.	DESCRIPTION	
1	9718R	Steering Wheel Insert	46	61P	Sq. Nk. Shd. Carr. Bolt 3/8 - 16 x 1 Gr. 5	
2	3023P	*Hex Bolt 3/8 - 16 x 1	47	1513P	Washer 13/32 x 1/16 x 1/8 Ga.	
3	1006P	Lockwasher 3/8	48	1519P	Washer 15/32 x 1 x 1/2 Ga.	
4	1552P	Washer 7/16 x 1 x 1/8 Ga.	49	6294H	Locknut 3/8 UNC	
5	3044E	Steering Wheel	50	3025P	*Hex Bolt 3/8 - 16 x 1 - 1/4	
6	5003P	E-Ring	51	1553P	Washer 13/32 x 3/16 x 1/8 Ga.	
7	9007H	Cap	52	501P	*Hex Nut 3/8 - 16 UNC	
8	5949H	Rubber Bushing	53	3027P	*Hex Bolt 3/8 - 16 x 1 - 1/2	
9	7903R	Floor Rest - L.H.	54	3027P	*Hex Bolt 3/8 - 16 x 1 - 1/2	
10	8009R	Decal (Attach. Clutch)	55	3027P	*Hex Bolt 3/8 - 16 x 1 - 1/2	
11	7903R	Floor Rest - R.H.	56	3010P	*Hex Bolt 5/16 - 18 x 3/4	
12	1653P	Washer 5/16 x 1 - 1/4 x 1/8 Ga.	57	1003P	*Lockwasher 5/16	
13	9859M	Woodruff Key 3/16 x 5/8	58	18P	Sq. Neck Carriage Bolt 3/8 - 16 x 3/4	
14	634A216	Shift Rod Bracket	59	1304H	Hub Bolt	
15	7907H	Control Knob	60	3046P	*Hex Bolt 7/16 - 14 x 1	
16	6442H	Shift Rod	61	1001P	*Lockwasher 7/16	
17	2511P	*Cotter Pin 3/16 x 1	62	600P	*Hex Nut 7/16 - 14 UNC	
18	634A22A	Shift Rod Bracket	63	3003P	*Hex Bolt 1/4 - 20 x 3/4	
19	6477H	Range Shift Rod	64	1506P	Washer 8/32 x 8/8 x 1/8 Ga.	
20	9604R	Transmission Bracket	65	1002P	*Lockwasher 1/4	
21	8874R	Seat Stop	66	1002P	*Lockwasher 1/4	
22	3858R	Rear Tire 23 x 8.5D - 12	67	603P	*Hex Nut 1/4 - 20 UNC	
23	7907H	Tire Valve	68	603P	*Hex Nut 1/4 - 20 UNC	
24	3858R	Rear Wheel 12 x 7 JA	69	70	603P	*Hex Nut 1/4 - 20 UNC
25	834A692	Rear Wheel Hub and Bushing	70	603P	*Hex Nut 1/4 - 20 UNC	
26	7503E	Axle Thrust Washer	71	1537P	*Hex Bolt 3/8 - 16 x 1	
27	8485R	Retaining Ring	72	1885H	Lock Nut 5/16 - 18 UNC	
28	9417E	Fender - L.H.	73	3021P	*Hex Bolt 3/8 - 16 - 204	
29	2658R	Bracket - Tail Light	74	52P	Carriage Bolt 1/2 - 13 x 1 - 1/4 Gr. 5	
30	2658R	Bracket - Tail Light	75	1578P	Washer 21/4 x 1 - 1/8 x 11 Ga.	
31	125J	Seat Stop Retainer	76	1660P	Washer 17/32 x 1 - 1/2 x 11 Ga.	
32	125J	Seat Stop Retainer	77	1000P	*Lockwasher 1/2	
33	8141H	Self Spring Reinforcement	78	502P	*Hex Nut 1/2 - 13 UNC	
34	7908R	Seat Spring	79	235J	Hub 5/16 - 18 x 7/8	
35	634A710	Self Flare Weldment	80	9647R	Rubber Grommet	
36	634A710	Self Flare Weldment	81	235J	Steering Wheel Decal	
37	7907H	Bracket, Seat Pivot	82	124J	Rubber Bumper	
38	9744E	Seat	83	245J	Decal	
39	7886R	Fuel Gauge	84	9123	Warranty Fast Tag	
40	7886R	Fuel Gauge	85	273J	Owners Manual	
41	8999R	Fuel Line Clamp	86	9123	Warranty Fast Tag	
42	2751R	Clip - Fuel Line	87	9123	Warranty Fast Tag	
43	8373R	Fuel Line (Long)	88	9123	Warranty Fast Tag	
44	205J	In-Line Filter	89	9123	Warranty Fast Tag	
45	135J	Fuel Line	90	9123	Warranty Fast Tag	
46	9297R	Clip - Fuel Line	91	9123	Warranty Fast Tag	

\*STANDARD HARDWARE - PURCHASE LOCALLY

**REPAIR PARTS**

ROPER 16T GARDEN TRACTOR-MODEL NO. T6328AR

**BRAKE AND CLUTCH**



**REPAIR PARTS**

ROPER 16T GARDEN TRACTOR-MODEL NO. T6328AR

**BRAKE AND CLUTCH**

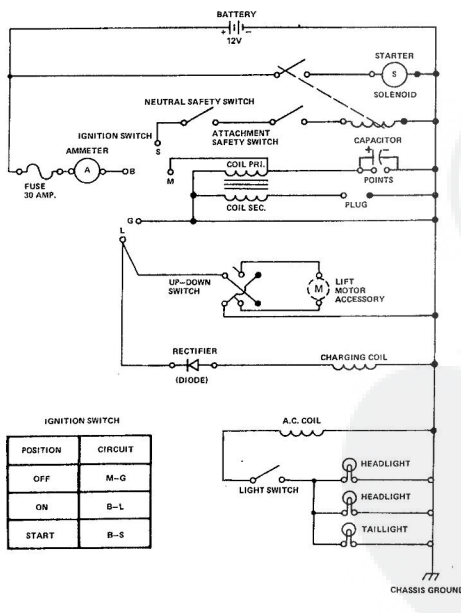
KEY NO.	PART NO.	DESCRIPTION	KEY NO.	PART NO.	DESCRIPTION
1	8899R	Insert Clutch-Brake	37	634A754	Inlet Bracket Weldment
2	8828R	Foot Pedal	38	8636H	U-bolts
3	8165H	Foot Pedal Bracket	39	5002P	E-Ring
4	9008H	Spring	40	634A888	Support Arm Assembly
5	1113	E-Ring	41	5000P	*Hex Nut 7/16 - 14 UNC
6	5005P	*Hex Nut 3/8 - 16 UNC	42	1001P	*Lockwasher 7/16
7	1527P	Washer 21/32 x 7/8 x 16 Ga.	43	1544P	*Washer 15/32 x 15/16 x 16 Ga.
8	2005P	*Hex Nut 3/8 - 16 UNC	44	6636H	*Flat Washer 7/16
9	2002R	Brake Rod - Front	45	1520P	*Washer 488 I.D. x 1 - 1/8 x 11 Ga.
10	8617H	Handlock	46	6479H1	*Ball Finger
11	501P	*Hex Nut 3/8 - 16 UNC	47	3262P	*Hex Bolt 7/16 - 14 x 2 - 1/2
12	7823R	Safety Switch Actuator	48	2082R	Valve
13	2001R	Washer 13/32 x 13/16 x 11 Ga.	49	6461H2	*Pulley, Transmission
14	2201R	Washer 13/32 x 13/16 x 11 Ga.	50	3002P	*Hex Bolt 1/4 - 20 x 3/4
15	1857P	Washer 13/32 x 13/16 x 11 Ga.	51	1002P	*Lockwasher 1/4
16	2263R	Spring Washer	52	3052P	*Fin. Hex Bolt 3/8 - 24 x 1
17	9686R	Parking Brake Yoke	53	1513P	*Washer 13/32 x 13/16 x 16 Ga.
18	1254	Rod Pin	54	548P	*Hex Jam Nut 3/8 - 24 UNF
19	634A887	Lock Bracket Assembly	55	5142H	Roll Pin
20	2221R	Spacer	56	3022P	*Hex Bolt 3/8 - 16 x 7/8
21	5099H	Spring Washer	57	1004P	*Lockwasher 3/8
22	4379H	Handle Grip	58	3164P	Flat Hd. Machine Screw - Undercut 3/8 - 16 x 3/4
23	626A341	Parking Lock Handle Assembly	59	111P	*St. Neck Carriage Bolt 1/4 - 20 x 5/8
24	7810H	Spring Carriage Lock Nut 3/8 - 24 UNF	60	5003P	*Hex Nut 1/4 - 20 UNC
25	626A365	Brake Rod Assembly	61	3158P	*Hex Bolt 5/16 - 18 x 7/8
26	634A167	Brake Rod and Lining	62	1889H	Locknut 5/16 - 18 UNC
27	634A158	Brake Bracket Assembly	63	5244P	*Hex Bolt 1/4 - 20 x 5/8 Gt. 5
28	5204H	Lock Nut 1/2 - 20 UNF	64	5071H	Hexlock Nut 1/4 - 28 UNF
29	7868H1	Brake Arm Assembly	65	3238P	*Hex Hd. Mach. Screw 6 - 32 x 1
30	634A899	Brake Arm Assembly	66	1567P	*Washer 5/32 x 3/8 x 20 Ga.
31	9686R1	Brake Arm	67	5022P	*Centerlock Nut 6 - 32 UNC
32	9288R	*Clutch Rod	68	1728H	Woodruff Key
33	2514P	*Cutting Pin 1/4 x 1			
34	6488H	Spring			
35	1587P	*Washer 11/32 x 1 - 11/16 x 21 Ga.			
36	4936M	Resistor Spring			
36A	544J	Hose Shield			

\*STANDARD HARDWARE-PURCHASE LOCALLY

**REPAIR PARTS**

16T GARDEN TRACTOR-MODEL NO. T6328AR

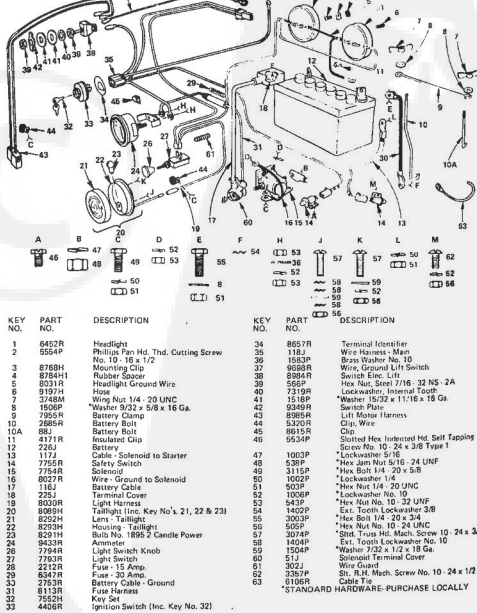
**ELECTRICAL**



**REPAIR PARTS**

ROPER 16T GARDEN TRACTOR-MODEL NO. T6328AR

**ELECTRICAL**



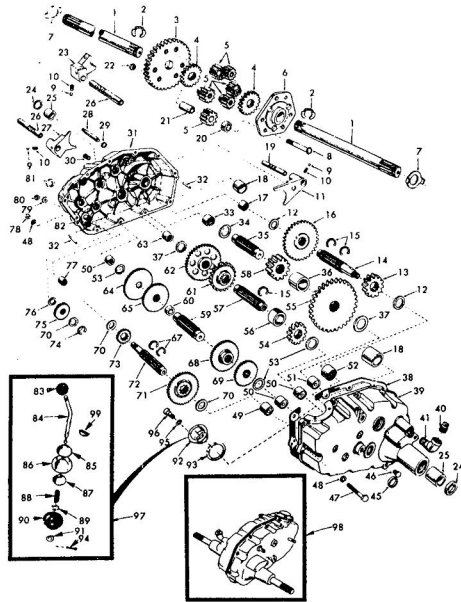
KEY NO.	PART NO.	DESCRIPTION	KEY NO.	PART NO.	DESCRIPTION
1	6452R	Headlight	34	8657R	Terminal Identifier
2	5554P	Phillips Pan Hd. Thd. Cutting Screw No. 10 - 18 x 1/2	35	118J	Wire Harness - Main
3	8748H	Mounting Clip	36	1883P	Wire, Ground Lift Switch
4	8748H1	Rubber Spacer	37	8688R	Switch Line - Lift
5	8031R	Headlight Ground Wire	38	8864R	*Hex Nut Steel 7/16 - 32 NS - 2A
6	9127H	Hose	39	556P	*Lockwasher, Integral Tooth
7	3748M	Wing Nut 1/4 - 20 UNF	40	7119P	*Washer 15/32 x 11/16 x 15 Ga
8	1506P	*Washer 9/32 x 9/8 x 16 Ga.	41	1518P	Switch Plate
9	7952R	Battery Clamp	42	8986R	Lift Motor Terminals
10	2865H	Battery Bolt	43	8986R	Clip - Wire
10A	881	Battery Bolt	44	8615R	Clip
11	4117R	Battery	45	6524P	Slotted Hex Insulated Hd. Self Tapping Screw No. 10 - 24 x 3/8 Type 1
12	226J	Battery	46	1003P	*Lockwasher 5/16
13	117J	Cable - Solenoid to Starter	47	538P	*Hex Nut 1/4 - 20 x 5/8
14	7955R	Safety Switch	48	5115P	*Lockwasher 1/4
15	7754R	Solenoid	49	1002P	*Hex Nut 1/4 - 20 UNF
16	8027R	Wire - Ground to Solenoid	50	5009P	*Lockwasher No. 10
17	18J	Battery Cable	51	5009P	*Hex Nut 1/4 - 20 UNF
18	225J	Terminal Cover	52	1006P	*Lockwasher No. 10
19	8028R	Light Harness	53	5009P	*Hex Nut 1/4 - 20 x 3/4
20	8069H	Taillight (Inc. Key No's 21, 22 & 23)	54	1402P	Ext. Tooth Lockwasher 3/8
21	8252H	Light - Taillight	55	3022P	*Hex Bolt 1/4 - 20 x 3/4
22	8253H	Housing - Taillight	56	5022P	*Hex Nut 1/4 - 20 x 3/4
23	8251H	Bulb No. 18W x Candle Power	57	1008P	*Ext. Tooth Lockwasher No. 10
24	9423R	Ammeter	58	1504P	*Washer 7/32 x 1/2 x 18 Ga.
25	7748H	Light Switch Knob	59	1008P	Control Terminal Cover
26	7748R	Light Switch	60	3022P	Wire Guard
27	8547R	Fuse - 30 Amp.	61	3022P	Cl. W. Hd. Mach. Screw No. 10 - 24 x 1/2
28	2212R	Battery Cable - Ground	62	3022P	Cl. W. Hd. Mach. Screw No. 10 - 24 x 1/2
29	8113R	Fuse Harness	63	6106R	*STANDARD HARDWARE-PURCHASE LOCALLY
30	7552H	Key Set			
31	8113R	Key Set			
32	7552H	Key Set			
33	4406R	Ignition Switch (Inc. Key No. 32)			

\*STANDARD HARDWARE-PURCHASE LOCALLY

**REPAIR PARTS**

ROPER 16T GARDEN TRACTOR—MODEL NO. T6328AR

**TRANSAXLE**



**REPAIR PARTS**

ROPER 16T GARDEN TRACTOR—MODEL NO. T6328AR

**TRANSAXLE**

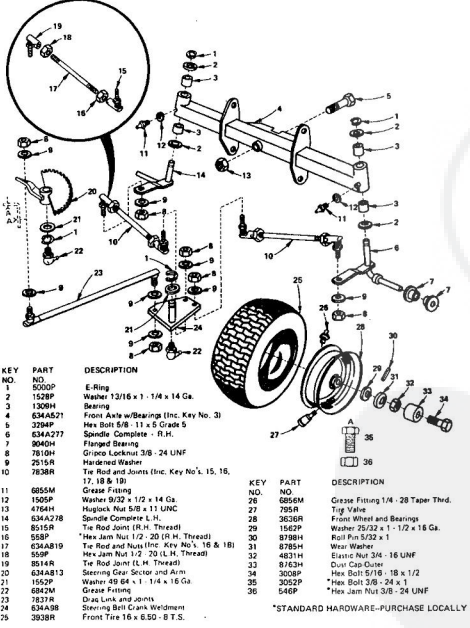
KEY NO.	PART NO.	DESCRIPTION	KEY NO.	PART NO.	DESCRIPTION
1	4197R	Axle Shaft	49	4895H	Needle Bearing
2	5845R	Rotating Ring	50	4227R	Needle Bearing
3	4199R	Final Drive Gear	51	1527R	Needle Bearing
4	4215R	Differential Gear	52	8119R	Needle Bearing
5	4215R	Differential Pinion	53	4220R	Thrust Bearing Race
6	4217R	Axle Thrust Washer	54	4209R	3rd Reduction Pinion - Low
7	6256H	Hex Bolt 3/8 - 24 UNF x 3 - 1/4 (1" Thread Length)	55	4213R	4th Reduction Gear
8	3056P	Steel Ball	56	4442R	3rd Reduction Pinion Spacer
9	7392M	Spring Shift Fork Detent	57	4185R	2nd Reduction Gear Shaft
10	6272H	Shift Fork, High - Low Range	58	4214R	Final Drive Pinion
11	4965R	Thrust Bearing Race	59	4186R	1st Reduction Gear Shaft
12	6256H	Hex Bolt 3/8 - 24 UNF x 3 - 1/4 (1" Thread Length)	60	7528R	1st Reduction Shaft Spacer
13	4212R	4th Reduction Pinion	61	4208R	3rd Reduction Pinion - High
14	4156R	3rd Reduction Gear Shaft	62	4207R	2nd Reduction Gear
15	6276H	Snap Ring - Crescent Type	63	7259H	Needle Bearing
16	6234G3	High - Low Range Gears	64	4203R	Low Speed Gear and 2nd Reduction Pinion Cluser
17	8118M	Needle Bearing	65	4204H	Reverse Gear
18	8743H	Stamped Iron Bearing	66	4920H	Snap Ring - Crescent Type
19	6217H	Shift Fork Shaft, High - Low Range	67	4205H	Intermediate Speed Gear
20	4218R	Differential Pinion Spacer	68	4206R	High Speed Gear
21	6272H	Shift Fork - L.H.	69	1370H	Thrust Bearing Race
22	7810H	Group Centerlock Nut 3/8 - 24 UNF	70	1370H	Thrust Bearing Race
23	4088R	Shift Fork - L.H.	71	6330G9	Intermediate and High Speed Starter Pinions
24	7393R	Oil Seal	72	4183R	Low Speed Pinion
25	5923H	Stamped Iron Bearing	73	4201R	5 Ring
26	6210H	Shift Fork Shaft	74	5027R	Reverse Idler Gear
27	6210H	Shift Fork - R.H.	75	7329H	Reverse Idler Thrust Washer
28	6215H	Shift Shaft, High - Low Range	76	5027R	Needle Bearing
29	6298H	Oil Seal	77	5029H	Needle Bearing
30	5856H	Pressure Relief Valve	78	5027R	Needle Bearing
31	6334B5	Gearcase, Reverse Idler Shaft and Bearings - R.H. (Inc. Key No's. 17, 18, 25, 33, 50, 63, 76, 77 and 82)	79	1167R	Hex Nut 5/16 - 18 UNC
32	6277H	Oil Seal	80	641P	Hex Jam Nut 7/16 - 20 UNF
33	4225R	Needle Bearing	81	6209H	Needle Bearing
34	7394R	Thrust Bearing Race	82	7384H	Reverse Idler Shaft
35	4180R	4th Reduction Gear Shaft	83	7876R	Control Knob
36	4220R	Thrust Bearing Race	84	8551R	Gear Shifts Lever - Bent
37	7395H	Thrust Bearing Race	85	4019R	Gear Shifts Cap
38	6275H	Gearcase and Bearings - L.H. (Inc. Key No's. 18, 25, 49, 50 (2), 51 and 52)	86	6324B5	Gear Shifts Ball Cover and Pin
39	6334A4	Gearcase and Bearings - L.H. (Inc. Key No's. 18, 25, 49, 50 (2), 51 and 52)	87	8799H1	Shifts Lower Guide Ball - Keyed
40	4002P	Pipe Plug 1/2 - 18 N.P.T.	88	4924H	Spring
41	4002P	Street Elbow 90° - 1/2" N.P.T.	89	1823P	Washer 15/32 x 5/16 x 1/8 Ga.
42	6271H	Oil Seal	90	8105R	Shift Mechanism Seal
43	4001P	Pipe Plug 1/4 - 18 N.P.T.	91	1609P	Washer 8/16 x 1/16 x 11 Ga.
44	4001P	Hex Bolt 5/16 - 18 x 1 - 1/2 Grade 5	92	7827R	Shift Gear
45	6271H	Oil Seal	93	6274H	Shift Ball Cover Gasket
46	4001P	Hex Bolt 5/16 - 18 x 1 - 1/2 Grade 5	94	7309P	Control 1/8 x 3/4
47	3087P	Lockwasher 5/16 Extra Heavy	95	1003P	Lockwasher 5/16
48	1007P	Lockwasher 5/16 Extra Heavy	96	6334B5	Gear Shifts Lever Assy.
			97	6334B5	Transaxle Assembly Lens Brake Drum
			98	7825M	Woodruff Key 1/8 x 1/2
			99	7825M	Woodruff Key 1/8 x 1/2

\*STANDARD HARDWARE—PURCHASE LOCALLY

**REPAIR PARTS**

ROPER 16T GARDEN TRACTOR—MODEL NO. T6328AR

**FRONT AXLE**

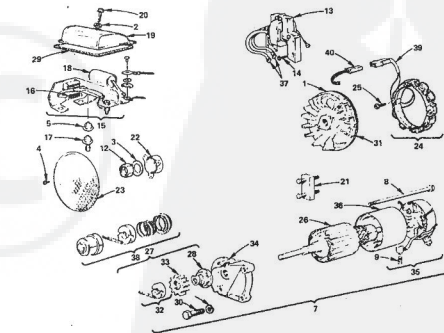


**REPAIR PARTS**

16T GARDEN TRACTOR—MODEL NO. T6328AR BRIGGS AND STRATTON ENGINE—MODEL NO. 401417, TYPE NO. 0127-01

**STARTER MOTOR GROUP**

ALL ENGINE PARTS MUST BE PURCHASED THROUGH AND SERVICE PERFORMED BY YOUR LOCAL BRIGGS AND STRATTON DEALER.



KEY NO.	PART NO.	DESCRIPTION	KEY NO.	PART NO.	DESCRIPTION
1	392356	Flywheel and Ring	21	1922D	Puller - Flywheel (Optional Equip.)
2	221037	Washer	22	229274	Cup - Screen Mousing
3	222211	Washer - Spring	23	229873	Screen Flush Rotating
4	92635	Screw - Set	24	383474	Starter - Alternator
5	280222	Self - Plunger	25	93821	Screw - Set
6	96386	Lockwasher	26	252737	Armature Assembly
7	350177	Motor - Starting	27	381481	Drive Ass'y. - Starter
8	93887	Thru Bolt	28	381135	Clutch Ass'y. - Starter
9	391705	Brush Set	29	271039	Gasket - Breaker Box
10	230674	Nut - Hex	30	91182	Screw - Hex 5/16 - 18 x 1 - 1/2
11	393329	Armature Assembly	31	281282	Gear - Flywheel Ring (Inc. Mfg. Parts)
12	93381	Screw - Armature Mtg. Sem	32	381462	Retainer and Pin Assembly
13	281282	Armature Ass'y. Ignition	33	280124	Gear - Starter
14	26018	Spring - Breaker Arm	34	392009	Drive End Cap
15	381203	Breaker - Breaker	35	393010	Housing Assembly
16	392912	Condenser	36	392744	Terminal - Ignition Cable
17	212250	Gear - Breaker Point	37	392746	Kit - Pinion Spring
18	392912	Condenser	38	392746	Disc and Connector Ass'y.
19	212250	Gear - Breaker Point	39	392746	Disc and Connector Ass'y.
20	92854	Screw - Set	40	393282	Alternator-Harness Ass'y.

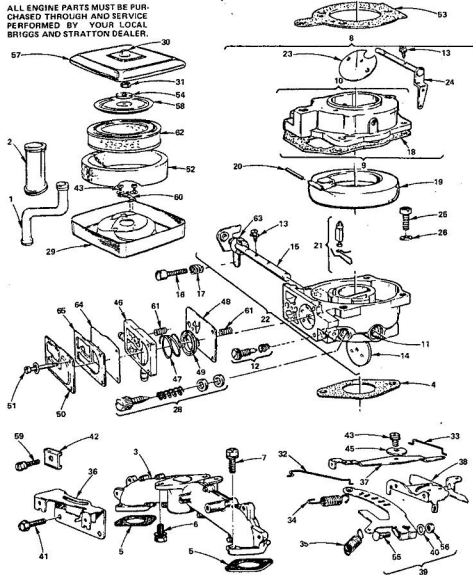
\*STANDARD HARDWARE—PURCHASE LOCALLY

### REPAIR PARTS

16T GARDEN TRACTOR-MODEL NO. T6328AR  
BRIGGS AND STRATTON ENGINE-MODEL NO. 401417, TYPE NO. 0127-01

#### AIR CLEANER-CARBURETOR GROUP

ALL ENGINE PARTS MUST BE PUR-  
CHASED THROUGH AND SERVICE  
PERFORMED BY YOUR LOCAL  
BRIGGS AND STRATTON DEALER.



### REPAIR PARTS

16T GARDEN TRACTOR-MODEL NO. T6328AR  
BRIGGS AND STRATTON ENGINE-MODEL NO. 401417, TYPE NO. 0127-01

#### AIR CLEANER-CARBURETOR GROUP

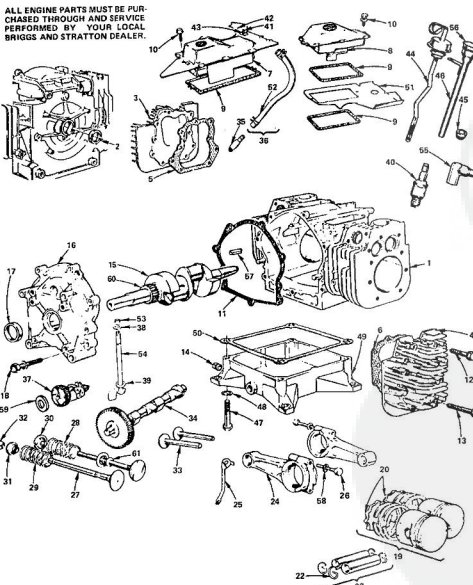
KEY NO.	PART NO.	DESCRIPTION	KEY NO.	PART NO.	DESCRIPTION
1	280165	Tube - Breather	32	261444	Link - Governor
2	280198	Tube - Intake	33	261460	Link - Speed Control
3	302070	Manifold Asy. - Intake	34	261446	Spring - Governor
4	271815	*Gasket - Carb. Mtg.	35	261487	Spring - Governed Mfg.
5	270854	*Gasket - Intake Manifold Mtg.	36	222007	Bracket - Speed Control
6	63415	Screw - Carb. Mtg. Sem	37	222828	Leve. - Speed Control
7	92206	Screw - Intake Manifold Mtg. Sem	38	392033	Plate Asy. - Governor Control
8	362806	Carburetor Asy. V.	39	392943	Lever Asy. - Governor
9	362897	Body Asy. - Upper Carb.	40	222893	Washer
10	362893	Body - Upper Carb.	41	63868	Screw - Sem
11	23108	Bushing - Throttle Shaft	42	221535	Clamp - Casing
12	392961	*Valve Asy. - Carb. Idle	43	63868	Screw - Sem
13	93469	Screw - Throttle and Choke Valve Mtg. Sem	45	231172	Bushing - Speed Control Body - Pump
14	222433	Valve - Throttle	47	261395	*Spring - Pump
15	362872	Shaft and Lever - Throttle	48	222619	Cover - Diaphragm
16	91920	Screw - Mech. Fil. Hd. 8 - 32 x 5/8	49	221377	*Cap - Spring
17	26197	Spring - Throttle Adj.	50	222619	Cover - Diaphragm
18	271008	*Gasket - Carburetor Body	51	63829	Screw - Diaphragm Cover
19	298514	Floet - Carburetor	52	270998	Element - Air Cleaner
20	230990	*Pin - Floet Hinge	53	271014	Gasket - Air Cleaner
21	299098	*Valve - Fuel Inlet	54	271180	Washer
22	362886	*Pin - Floet Hinge	55	63853	Ball - Governor Lever
23	222010	Valve - Choke	56	92278	Screw - Air Cleaner
24	922813	Screw - Machine, Fil. Hd. 10/32 x 5/8	57	222763	Cover - Air Cleaner
25	90764	Screw - Machine, Fil. Hd. 10/32 x 5/8	58	222835	Cartridge Plate - Air Cleaner
26	92290	Washer - Lock 10 x 1/16 x 3/64	59	392943	Mounting Strap Asy. - Air Cleaner
28	392125	Jet - Main	61	261358	*Spring
29	62276	Jet - Main	62	392942	Cartridge - Air Cleaner
30	212297	Knob - Air Cleaner	63	271013	*Washer - Choke Shaft
31	53715	Nut - Hex	64	270969	*Diaphragm - Damaging
			65	271025	*Gasket - Carb. Pump
			66	392728	Gasket Set (Includes Parts Marked *)
			67	363301	Carburetor Overhaul Kit (Includes Parts Marked *)

### REPAIR PARTS

16T GARDEN TRACTOR-MODEL NO. T6328AR  
BRIGGS AND STRATTON ENGINE-MODEL NO. 401417, TYPE NO. 0127-01

#### CYLINDER, CRANKSHAFT AND ENGINE BASE GROUP

ALL ENGINE PARTS MUST BE PUR-  
CHASED THROUGH AND SERVICE  
PERFORMED BY YOUR LOCAL  
BRIGGS AND STRATTON DEALER.



### REPAIR PARTS

16T GARDEN TRACTOR-MODEL NO. T6328AR  
BRIGGS AND STRATTON ENGINE-MODEL NO. 401417, TYPE NO. 0127-01

#### CYLINDER, CRANKSHAFT AND ENGINE BASE GROUP

KEY NO.	PART NO.	DESCRIPTION	KEY NO.	PART NO.	DESCRIPTION
1	362274	Cylinder Assembly	28	92909	Screw - Connecting Rod
2	391096	Seal - Oil	27	390420	Valve - Exhaust
3	21219	Head - Cylinder No. 1	29	65906	Spring - Intake Valve
4	212180	Head - Cylinder No. 2	28	26828	Spring - Exhaust Valve
6	270984	*Gasket - Cylinder Head No. 1	30	221596	Retainer - Intake Valve
8	270983	*Gasket - Cylinder Head No. 2	31	262700	Retainer - Exhaust
7	363243	Breather Assembly No. 1	32	93630	Retainer - Exhaust Valve Retocol
8	363153	Breather Assembly No. 2	33	261368	Tappet - Valve
9	27863	*Gasket - Valve Cover	34	212173	Gear - Cam
10	65294	Screw - Sem	35	67216	Elbow - Connector
11	270982	*Gasket - Crankcase Cover 1/64" Thick	36	392244	Pipe - Fuel
11	271145	*Gasket - Crankcase Cover 000" Thick	37	392773	Gear - Governor
11	271146	*Gasket - Crankcase Cover 000" Thick	38	220663	Washer - Gov. Crank (outside)
13	92111	Jet - Main Assembly	39	93857	Washer - Gov. Crank (inside)
13	92110	Screw - Cylinder Head (2 - 5/16" Long)	40	392585	Plug - Seal (Resistor)
14	91084	Plug - Oil Drain	41	90576	Nut - Hex 8 - 32
15	362308	Crankshaft	42	231174	Terminal
16	362372	Cover Assembly - Crankcase	43	280180	Grommet - Insulator
17	261675	Seal - Oil	44	392021	Cap and Dipstick - Oil Filter
18	93847	Screw - Crankcase Cover Mtg. Sem	45	68828	Seal - Filter Tube
19	363211	Piston Assembly - Standard	46	392182	Tube - Oil Filter
19	363343	Piston Assembly - .010" O.S.	47	93783	Screw - Hex Hd.
19	363364	Piston Assembly - .020" O.S.	48	92206	Washer
19	363345	Piston Assembly - .030" O.S.	49	393412	Base - Engine
20	363277	Ring Set - Piston - Standard	50	270981	*Gasket - Engine Base
20	363300	Ring Set - Piston - .010" O.S.	51	222700	Ball - Air
20	363341	Ring Set - Piston - .020" O.S.	52	93953	Clamp - Fuel Pipe
20	363342	Ring Set - Piston - .030" O.S.	53	93851	Retainer - E-Ring
22	269924	Lock - Piston Pin	54	393309	Crank - Governor
23	229591	Pin Assembly - Piston - Standard	55	69536	Elbow - Spark Plug
23	361296	Pin Assembly - Piston - .005" O.S.	56	270933	Seal - Oil Filter Cap
24	362370	Rod Assembly - Connecting	57	61160	Key - Flywheel
25	222480	Dipper - Connecting Rod	58	220863	Washer
			59	222773	Washer - Thrust
			60	261363	Gear - Timing
			61	392279	Seal Asy. v. Retainer

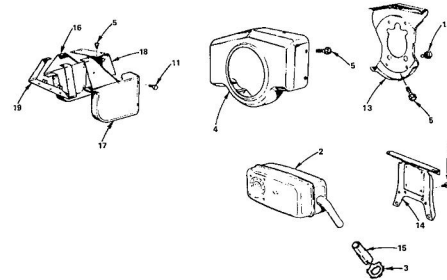
\*Inc. in Gasket Set - 392778

### REPAIR PARTS

16T GARDEN TRACTOR—MODEL NO. T6328AR  
BRIGGS AND STRATTON ENGINE—MODEL NO. 401417, TYPE NO. 0127-01

#### MUFFLER, AIR GUIDE AND HOUSING GROUP

ALL ENGINE PARTS MUST BE PURCHASED THROUGH AND SERVICE PERFORMED BY YOUR LOCAL BRIGGS AND STRATTON DEALER.



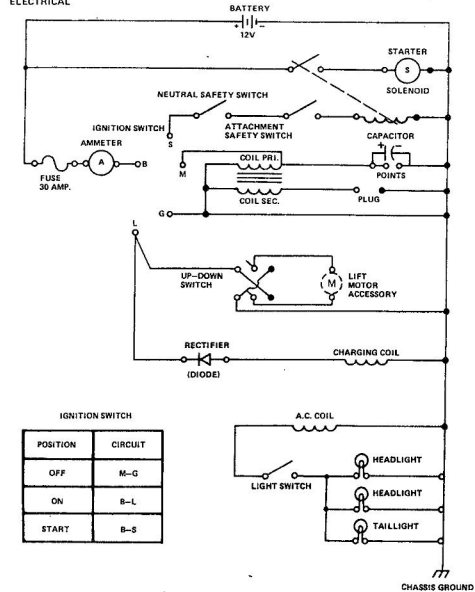
KEY NO.	PART NO.	DESCRIPTION	KEY NO.	PART NO.	DESCRIPTION
1	93843	Screw - Semi	13	382934	Back Plate Air/V
2	362999	Muffler - Exhaust	14	222779	Bracket - Muffler
3	91242	Locknut - Muffler	15	221462	Connector - Muffler
4	382681	Housing - Blower	16	382891	Cover Assy. - Air
5	93195	Screw - Semi	17	382892	Cover Assy. - Air
11	93876	Screw - Semi	18	382925	Rear Insert Assy.
12	93777	Screw - Hex Hd. (Back Plate to Cylinder)	19	222775	Frame - Air Guide

OPTIONAL EQUIPMENT  
382154 Spark Arrestor Assembly  
222673 Deflector (Side Outlet)  
93705 Screw (4 Required)

### REPAIR PARTS

16T GARDEN TRACTOR—MODEL NO. T6328BR

#### ELECTRICAL



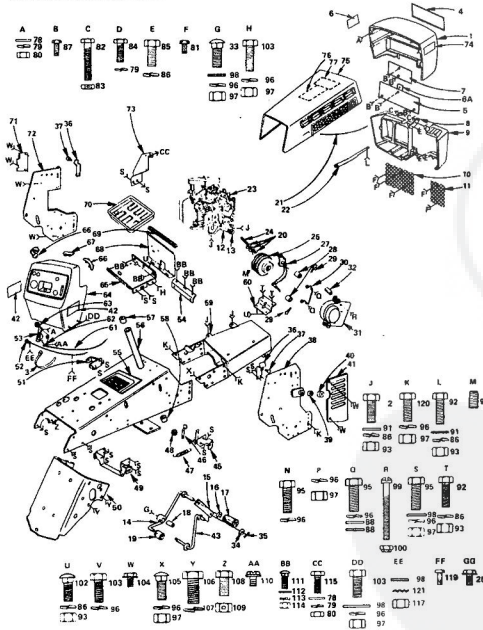
#### WIRING CLIPS AND CABLE TIES

If Clips or Ties were removed for servicing of unit, they should be replaced to properly secure your wiring.

### REPAIR PARTS

ROPER 16T GARDEN TRACTOR—MODEL NO. T6328BR

#### MAIN FRAME, DASH AND GRILL



### REPAIR PARTS

ROPER 16T GARDEN TRACTOR—MODEL NO. T6328BR

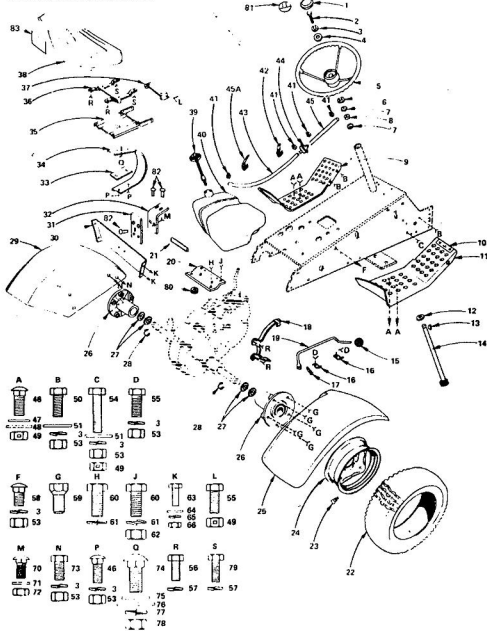
#### MAIN FRAME, DASH AND GRILL

KEY NO.	PART NO.	DESCRIPTION	KEY NO.	PART NO.	DESCRIPTION
1	9111	Grill - Upper	68	1071	Battery Heat Shield
2	302329	Tie - Wire	69	7874R	Hood Seal
3	9106R	Grill - Lower	70	8855R	Battery Tray
4	2451	Grill - Grill	71	381	Cover - L.H.
5	291J	Grill Panel - Lower	72	113J	Bracket - Battery Support - L.H.
6	16504	Grill - Grill	73	1181J	Bracket - Receiver
6A	8768H	Mounting Clip	74	1591J	Decal
7	285J	Grill Panel - Upper	75	634A027	Hood Assy.
8	888J	Grill - Lower	76	8025R	Decal - Instruction
9	7858R	Grill - Grill	77	291J	Decal - Wiring
10	2874R	Grill - Grill	78	1006P	*Washer 9/32 x 5/8 x 16 Ga.
11	2878R	Grill - Grill	79	1002P	*Lockwasher 1/8"
12	4016P	Pipe Nipple 3/8 - 18 N.P.T. x 4 - 1/2"	80	503P	*Hex Nut 1/4 - 20 UNC
13	4016P	Pipe Cap 3/8 - 18 N.P.T.	81	5001P	*Phillips Pan Hd. Tnd. Self Tap 10 - 24 x 3/8 Type T
14	634A011	Link	82	3267P	*Hex Nut 1/4 - 20 x 3/4
15	981	Lock	83	1805H	*Hex Bolt 5/16 - 18 x 3/4
16	92J	Push-On Nut	84	3010P	*Lockwasher 5/16"
17	93J	Rubber Pad	85	3005P	*Hex Bolt 5/16 - 18 x 3/4
18	91J	Pinot Spacer	86	1002P	*Lockwasher 5/16"
19	285J	Grill Panel	87	5554P	*Phillips Pan Hd. Tnd. Self Tap 10 - 16 Hi-Low Thrd x 1/2 Blank Point
20	1696P	Washer 1 - 1/16 x 2 x .140	88	1867P	*Washer 13/32 x 13/16 x 1 1/4 Ga.
21	8668R	Grill Bracket	89	1637P	*Washer 1/25 x 11/16 x 16 Ga.
22	101J	Grill Bracket	90	3011P	*Hex Bolt 5/16 - 18 x 1"
23	401417	Engine, Briggs and Stratton 16 H.P.	91	824P	*Hex Nut 5/16 - 18 UNC
24	8396E	St. Key 1/4 x 2	92	3011P	*Hex Bolt 5/16 - 18 x 1"
25	634A04	New Washer Rd. Thrd. Cutting Screw 1/4 - 20 x 3/4 Type T	93	824P	*Hex Nut 5/16 - 18 UNC
26	634A04	Engine Pulley (Inc. 2 ea. Key No. 94)	94	4546P	*Hex Forged Socket Helless Set Screw CP 5/16 - 18 - 1/2 - Nylok
27	634A732	Spacer	95	3023P	*Hex Bolt 3/8 - 16 x 1"
28	6764H1	Ball Guide Weldment	96	1004P	*Lockwasher 3/8"
29	4929H	Retainer Spring	97	601P	*Hex Nut 3/8 - 18 UNC
30	9611H	Ball Retainer	98	1537P	*Washer 13/32 x 13/16 x 1 1/4 Ga.
31	634A050	Ball Cover Weldment	99	3154P	St. Fl. Hd. Machine Screw 1/4 - 20 x 2 1/4"
32	8228H	Split Spacer	100	347H	Hi-Lock Nut 1/4 - 20 UNC
33	1696P	St. Neck Carriage Bolt 3/8 - 18 x 2 - 1/4"	101	87	*Carriage Bolt 5/16 - 18 x 3/4"
34	354P	Washer 7/32 x 1 x 16 Ga.	102	3025P	*Hex Bolt 3/8 - 16 x 1 - 1/4"
35	354P	Washer 7/32 x 1 x 16 Ga.	103	3025P	*Hex Bolt 3/8 - 16 x 1 - 1/4"
36	634A050	Carriage Bolt 1/2 - 18 x 1"	104	5557P	*Hex Washer Hd. Thrd. Cutting Screw 1/4 - 20 x 1/2 Type T
37	8457R	Support Bumper	105	61P	St. Neck Carriage Bolt - Short Shoulder 3/8 - 16 x 1 Ga. S.
38	634A063	Battery Support Bracket (Inc. Key 39)	106	106	*Hex Bolt 7/16 - 14 x 1 1/4"
39	7756R	Bearing	107	3026P	*Lockwasher 7/16"
40	8068R	Cap	108	1001P	*Hex Bolt 3/8 - 16 x 3/4"
41	7729R	Cover - R.H.	109	5284H	*Locknut 3/8 - 18 UNC
42	286J	Washer 1/25 x 11/16 x 16 Ga.	110	6055P	St. Hd. Machine Screw 1/4 - 20 x 1/4
43	634A07	Washer 7/32 x 7/16 x 18 Ga.	111	539P	*Hex Nut 10 - 24 UNC
44	7944R	Locknut 3/8 - 18 UNC	112	1535P	*Washer 7/32 x 7/16 x 18 Ga.
45	7944R	Locknut 3/8 - 18 UNC	113	1006P	*Lockwasher 10
46	7944R	Locknut 3/8 - 18 UNC	114	509P	*Hex Nut 10 - 24 UNC
47	7944R	Locknut 3/8 - 18 UNC	115	3114P	*Hex Bolt 1/4 - 20 1/2 UNC
48	7910H	Return Spring	116	3027P	*Hex Bolt 3/8 - 16 x 1 - 1/2"
49	634A014	Locknut 3/8 - 24 UNF	117	155P	*Hex Nut 3/8 - 24 UNF
50	634A014	Locknut 3/8 - 24 UNF	118	2614P	*Center Pin 1/4 x 1"
51	634A014	Locknut 3/8 - 24 UNF	119	5552P	*Serrated Pan Hd. Self Tap Screw No. 8 x 3/4 Type AB
52	7151H	Locknut 3/8 - 24 UNF	120	3137P	*Hex Bolt 3/8 - 16 x 1 - 1/4 Ga. S.
53	67J	Locknut 3/8 - 24 UNF	121	1402P	Ext. Tooth Lockwasher 3/8"
54	67J	Locknut 3/8 - 24 UNF			
55	634A088	Ball Guide Control (Inc. Key 61, 62 & 63)			
56	634A088	Ball Guide Control (Inc. Key 61, 62 & 63)			
57	9468H	Ball Guide Control (Inc. Key 61, 62 & 63)			
58	4766H	Bearing			
59	634A096	Ball Mount Assy.			
60	954	Grill Spacer			
61	1637100	Tractor Wheel Cap			
62	8204R	Clamp			
63	1637100	Tractor Wheel Cap			
64	634A093	Dashboard (Inc. Key No's. 66 and 67)			
65	634A093	Battery Support			
66	1998R	Clip - Dashboard			
67	8571R	Clip - Dashboard, Center			

\*STANDARD HARDWARE—PURCHASE LOCALLY

### REPAIR PARTS

ROPER 16T GARDEN TRACTOR-MODEL NO. T6328BR  
STEERING AND FINAL DRIVE



### REPAIR PARTS

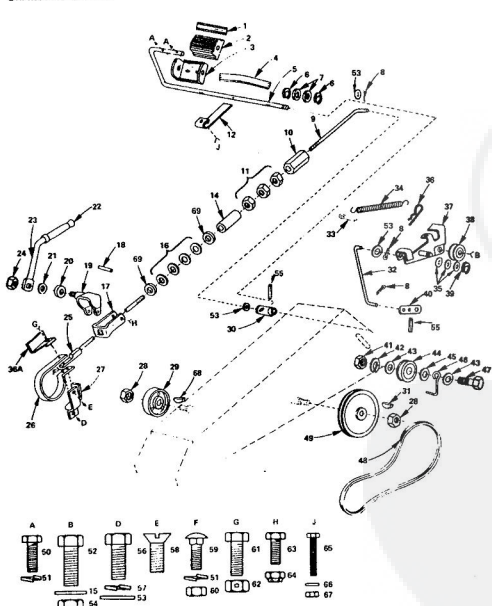
ROPER 16T GARDEN TRACTOR-MODEL NO. T6328BR  
STEERING AND FINAL DRIVE

KEY NO.	PART NO.	DESCRIPTION	KEY NO.	PART NO.	DESCRIPTION
1	9716R	Steering Wheel Insert	45	G1P	Sp. Nk. Sht. Sht. Car. Bolt 3/8 x 1 1/4
2	3022P	*Hex Bolt 3/8 x 16 x 1	47	1613P	Washer 13/32 x 13/16 x 16 Ga.
3	1004P	Lockwasher 3/8	48	1519P	Washer 15/32 x 1 x 12 Ga.
4	1555P	Washer 7/16 x 1 x 10 Ga.	49	5204H	Locknut 3/8 UNC
5	3064R	Steering Wheel	50	3022P	*Hex Bolt 3/8 x 16 x 1
6	5003P	E-Ring	51	1557P	Washer 13/32 x 13/16 x 11 Ga.
7	9007H	Cap	53	501P	*Hex Nut 3/8 16 UNC
8	5948H	Rubber Bushing	54	3022P	*Hex Bolt 3/8 x 16 x 1 1/2
9	7903R	Foot Rest L.H.	55	3022P	*Hex Bolt 3/8 x 16 x 7/8
10	8900R	Decal (Front Clutch)	56	2010P	*Hex Bolt 5/16 x 18 x 3/4
11	7904R	Foot Rest R.H.	57	1003P	*Lockwasher 5/16
12	1552P	Washer 5/8 x 1 x 14 x 16 Ga.	58	18P	*Sp. Neck Carriage Bolt 3/8 x 16 x 3/4
13	9858M1	Woodruff Key 3/16 x 5/8	59	1304H	*Hex Bolt 7/16 x 14 x 1
14	6344S2	Steering Shaft and Pinion Control Knob	60	3004P	*Hex Bolt 7/16 x 14 UNC
15	6344H	Shift Rod Bracket	61	1001P	*Lockwasher 7/16
16	6442H	Shift Rod Guide	62	500P	*Hex Nut 7/16 14 UNC
17	2011P	*Corner Pin 3/16 x 1	63	3003P	*Hex Bolt 1/4 x 20 x 3/4
18	63442A	Belt Guide	64	1548P	*Washer 9/32 x 5/8 x 16 Ga.
19	8074R	Transmission Bracket	65	1002P	*Lockwasher 1/2
20	9594R	Rear Tire 23 x 9.50 12	66	503P	*Hex Nut 1/4 20 UNC
21	8074R	Seat Stop	70	8P	*Short Shoulder Sp. Neck Carriage Bolt 5/16 x 18 x 3/4
22	3838R	Rear Wheel 12 x 7 JA	71	1531P	*Washer 11/32 x 11/16 x 16 Ga.
23	795R	Fender R.H.	72	1602H	Lock Nut 5/16 18 UNC
24	3838R	Rear Wheel 12 x 7 JA	73	3021P	*Hex Bolt 3/8 x 16 x 3/4
25	8429B2	Rear Wheel Hub and Bushing	74	52P	Carriage Bolt 1/2 x 13 x 1 1/4 G.S.
26	7583R	Asse Thrust Washer	75	1578P	Washer 24 x 1 1/8 x 11 Ga.
27	7583R	Retaining Ring	76	1560P	*Lockwasher 1/2
28	9427R	Fender L.H.	77	1000P	*Hex Nut 1/2 13 UNC
29	3856R	Bracket Tail Light	78	5021H	*Hex Nut 1/2 13 UNC
30	175J	Seat Stop Bracket	79	3158P	*Hex Bolt 1/8 x 18 x 7/8
31	175J	Seat Stop Bracket	80	9547H	Rubber Grommet
32	175J	Seat Stop Bracket	81	235J	Steering Wheel Decal
33	8141H	Seat Spring Reinforcement	82	174J	Rubber Bumper
34	9888R	Seat Plate Weldment	83	245J	Decal
35	634475	Seat Plate Weldment	84	1624J	Warranty Fact Tag
36	634452	Bracket, Seat Feet	85	1616J	Owner's Manual
37	7897R	Bracket, Seat Feet			
38	9744R	Seat			
39	1229J	Fuel Gauge			
40	7885R	Fuel Tank			
41	8099R	Fuel Line Clamp			
42	2751R	Clip - Fuel Line			
43	8373R	Fuel Line (Clamp)			
44	206J	In-Line Filter			
45	35J	Fuel Line			
46	35J	Fuel Line			
47	9237R	Clip - Fuel Line			

\*STANDARD HARDWARE PURCHASE LOCALLY

### REPAIR PARTS

ROPER 16T GARDEN TRACTOR-MODEL NO. T6328BR  
BRAKE AND CLUTCH



### REPAIR PARTS

ROPER 16T GARDEN TRACTOR-MODEL NO. T6328BR  
BRAKE AND CLUTCH

KEY NO.	PART NO.	DESCRIPTION	KEY NO.	PART NO.	DESCRIPTION
1	8899R	Insert Clutch Brake	37	634A764	Idle-Run/Weldment
2	882R	Foot Pedal	38	6636H	Idle-Run/Weldment
3	9175H	Foot Pedal Bracket	39	3022P	E-Ring
4	9003H	Spring	40	634A88B	Steering Arm Assembly
5	111J	Foot Pedal Shaft	41	500P	*Hex Nut 7/16 14 UNC
6	5001P	E-Ring	42	1001P	*Lockwasher 7/16
7	1529P	Washer 21/32 x 7/8 x 16 Ga.	43	1544P	*Washer 15/32 x 15/16 x 18 Ga.
8	2905P	Corner Pin 1/8 x 3/4	44	6659H	Belt Idler
9	2202R	Brake Rod - Front	45	1520P	Washer .469 I.D. x 1 1/8 x 11 Ga.
10	6511H	Turnbuckle	46	5479H	Belt Idler
11	501P	*Hex Nut 3/8 x 16 UNC	47	3202P	*Hex Bolt 7/16 x 14 x 2 1/2
12	7822R	Safety Shift Actuator	48	2662R	V-Belt
13	1557P	Washer 13/32 x 13/16 x 11 Ga.	49	6461H	Pulley, Transmission
14	2201R	Bushing	50	3003P	*Hex Bolt 1/4 x 20 x 3/4
15	1557P	Washer 13/32 x 13/16 x 11 Ga.	51	1002P	*Lockwasher 1/2
16	2263R	Spring Washer	52	3052P	*Fin. Hex Bolt 3/8 x 24 x 1
17	9886R	Parking Brake Yoke	53	1513P	*Washer 13/32 x 13/16 x 16 Ga.
18	1704H	Roll Pin	54	548P	*Hex Jam Nut 3/8 x 24 UNF
19	634A88B	Lock Bracket Assembly	55	1429H	Roll Pin
20	2221R	Spacer	56	3022P	*Hex Bolt 3/8 x 16 x 7/8
21	5999H	Spring Washer	57	1004P	*Lockwasher 3/8
22	4376H	Handle Grip	58	3164P	Fast. Hex. Machine Screw - Undercut 3/8 x 16 x 3/4
23	626A241	Parking Lock Handle Assembly	59	111P	Sp. Neck Carriage Bolt 1/4 x 20 x 5/8
24	7810H	Glass Genlock Nut 3/8 x 24 UNF	60	503P	*Hex Nut 1/4 20 UNC
25	676A365	Brake Rod Assembly	61	3153P	*Hex Bolt 5/16 x 18 x 7/8
26	82A211	Brake Band Assembly	62	1685H	Locknut 5/16 18 UNC
27	634A168	Brake Bracket Assembly	63	3246P	*Hex Bolt 1/4 x 20 x 5/8 G.S.
28	9204H	Lock Nut 1/2 20 UNF	64	9011H	Hex Nut 1/4 28 UNF
29	114J	Roll Pin	65	3226P	Hex Nut, Wash. Screws 6 3/2 x 1
30	634A899	Brake Arm Assembly	66	1567P	Washer 5/32 x 3/8 x 20 Ga.
31	9888M1	Clutch Rod	67	3226P	Centerlock Nut 6 3/2 UNC
32	9288R	Clutch Rod	68	2228H	Woodruff Key
33	6514P	*Corner Pin 1/4 x 1	69	1602P	Washer 13/32 x 5/8 x 11 Ga.
34	6486H	Spring			
35	1167P	*Washer 1/32 x 1 1/16 x 21 Ga.			
36	4933M	Retainer Spring			
36A	544J	Hose Shield			

\*STANDARD HARDWARE PURCHASE LOCALLY

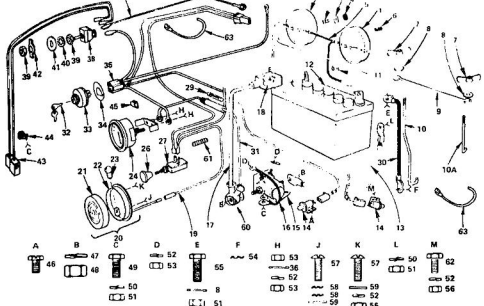


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**REPAIR PARTS**

ROPER 16T GARDEN TRACTOR-MODEL NO. T6328BR

**ELECTRICAL**

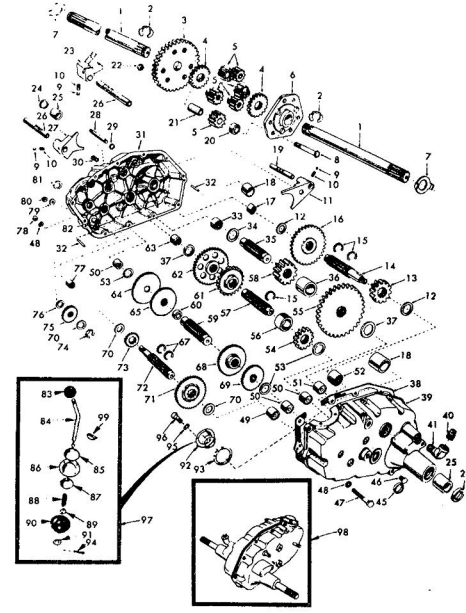


KEY NO.	PART NO.	DESCRIPTION	KEY NO.	PART NO.	DESCRIPTION
1	6452R	Headlight	34	8657R	Terminal Identifier
2	5565P	Phillips Pan Hd. Thd. Cutting Screw No. 10 - 16 x 1/2	35	118J	Wire Harness - Main
3	8788H	Rubber Spacer	36	1583R	Brake Washer No. 10
4	8031R	Headlight Ground Wire	37	8084R	Switch Elec. Lift
5	8192H	Hose	38	5565P	Hex Jam Nut 5/16 - 24 UNF
6	5748M	Wing Nut 1/4 - 20 UNC	39	7319R	Lockwasher, Internal Foot
7	1506P	Washer 9/32 x 5/8 x 16 Ga.	40	8055R	Switch Plate
8	7952R	Battery Clamp	41	8055R	Lift Motor Harness
9	2088R	Battery Bolt	42	5320R	Switch Phase
10	104	Insulated Clip	43	8615R	Clip, Wire
11	4171R	Battery	44	5524P	Slotted Hex Undercut Self Tapping Screw No. 10 - 24 x 3/8 True 1
12	225J	Cable - Solenoid to Starter	45	1003P	Lockwasher 5/16
13	117J	Safety Switch	46	528P	Hex Nut 1/4 - 20 x 1/2
14	7752R	Solenoid	47	3115P	Hex Bolt 1/4 - 20 x 5/8
15	7754R	Wire - Ground to Solenoid	48	1002P	Lockwasher, 1/4
16	8027R	Terminal Cover	49	503P	Hex Nut 1/4 - 20 UNC
17	116J	Battery Cable	50	1005P	Hex Nut No. 10 - 32 UNC
18	226J	Light Harness	51	1422P	Ext. Foot Lockwasher 3/8
19	8030R	Tail Light (Inc. Key No's. 21, 22 & 23)	52	3003P	Hex Nut No. 10 - 24 UNC
20	8222H	Lens - Tail Light	53	3074P	Ext. Foot Lockwasher No. 10
21	8223H	Bulb No. 1955 - Candle Power	54	1504P	Solenoid Terminal Cover
22	8224H	Adapter	55	1504P	Wire Guard
23	8225H	Light Switch Knob	56	3218P	Hex Bolt Black, Screw No. 10 - 24 x 1/2
24	7752R	Fuse - 15 Amp	57	8106P	Cable Tie
25	7752R	Fuse - 20 Amp	58	8106P	STANDARD HARDWARE - PURCHASE LOCALLY
26	2217R	Fuse - 30 Amp			
27	5347R	Battery Cable - Ground			
28	7753R	Fuse Harness			
29	8113R	Key, Sr.			
30	7852H	Ignition Switch (Inc. Key No. 32)			
31	4408R				

**REPAIR PARTS**

ROPER 16T GARDEN TRACTOR-MODEL NO. T6328BR

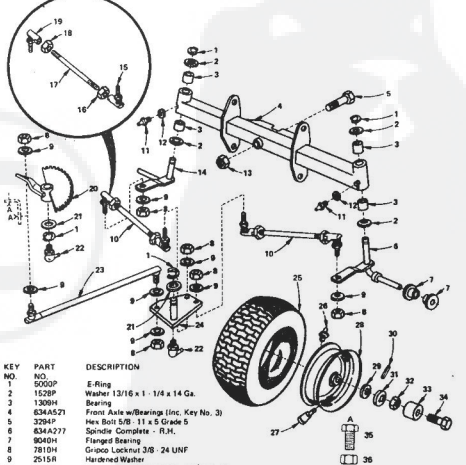
**TRANSAXLE**



**REPAIR PARTS**

ROPER 16T GARDEN TRACTOR-MODEL NO. T6328BR

**FRONT AXLE**



**REPAIR PARTS**

ROPER 16T GARDEN TRACTOR-MODEL NO. T6328BR

**TRANSAXLE**

KEY NO.	PART NO.	DESCRIPTION	KEY NO.	PART NO.	DESCRIPTION
1	4197R	Axle Shaft	40	4895H	Needle Bearing
2	5848R	Retaining Ring	41	4222R	Needle Bearing
3	4198R	Final Drive Gear	42	1502R	Needle Bearing
4	4218R	Differential Gear	52	8118R	Needle Bearing
5	4215R	Differential Pinion	53	4220R	Thrust Bearing Race
6	4217R	Differential Carrier	40	4209R	3rd Reduction Pinion - Low
7	6256H	Axle Thrust Washer	41	4213R	4th Reduction Gear
8	3056P	Hex Bolt 3/8 - 24 UNF x 3 - 1/4 (17" Thread Length)	58	4442R	3rd Reduction Pinion Spacer
9	7892M	Steel Ball	59	4158R	2nd Reduction Gear Shaft
10	6272H	Spring Shifts Fork Detent	58	4214R	Final Drive Pinion
11	4885R	Shift Fork, High - Low Range	59	4158R	1st Reduction Gear Shaft
12	6286H	Thrust Bearing Race	61	4209H	3rd Reduction Pinion - High
13	4212R	4th Reduction Pinion	62	4207H	2nd Reduction Gear
14	4198R	3rd Reduction Gear Shaft	63	7309H	Needle Bearing
15	6276H	Snap Ring - Crescent Type	64	4203R	Low Speed Gear and 2nd Reduction Pinion Cluster
16	633A63	High - Low Range Gears	65	4204R	Reverse Gear
17	8118M	Needle Bearing	67	4020H	Snap Ring - Crescent Type Intermediate Speed Gear
18	8740H	Sintered Iron Bearing	68	4209R	High Speed Gear
19	6274H	Shift Fork Shaft, High - Low Range	69	4208R	Thrust Bearing Race
20	4218R	Differential Pinion Spacer	70	1370H	Intermediate and High Speed Cluster Pinion
21	6261H	Differential Pinion Quabing	71	633A66	Input Shaft
22	7810H	Groove Centerlock Nut 3/8 - 24 UNF	72	4103R	Low Speed Pinion
23	4888R	Shift Fork - L.H.	73	5201R	E-Ring
24	7302R	Oil Seal	74	5001P	Reverse Idler Gear
25	9821H	Sintered Iron Bearing	75	1153R	Reverse Idler Thrust Washer
26	6216H	Shift Fork Shaft	76	7324P	Needle Bearing
27	6282H	Shift Fork - R.H.	77	5094H	Sealing Washer
28	6218H	Shift Shaft, High - Low Range	78	1167R	Hex Jam Nut 7/16 - 20 UNF
29	6289H	Oil Seal	80	541P	Oil Seal
30	8055H	Pressure Relief Valve	81	8270H	Reverse Idler Shaft
31	633A85	Gears, Reverse Idler Shaft and Bearings - R.H. (Inc. Key No's. 17, 18, 25, 26, 50, 51, 76, 77 and 82)	83	6364H	Control Knob
32	6277H	Down Pin	84	8618H	Gear Shift Lever - Bent
33	4222R	Needle Bearing	85	3013R	Gear Shift Cap
34	7388H	Thrust Bearing Race	86	633A86	Gear Shift Ball Cover and Pin
35	4106R	4th Reduction Gear Shaft	87	8739H	Shift Lever Guide Ball - Keyed
36	4200R	4th Reduction Gear Spacer	88	4924H	Spring
37	7386H	Thrust Bearing Race	89	1593P	Washer 15/32 x 5/8 x 16 Ga.
38	6275H	Gearcase Gasket	90	8106R	Washer 9/16 x 5/16 x 11 Ga.
39	633A64	Gearcase and Bearings - L.H. (Inc. Key No's. 18, 25, 49, 50, 52, 51 and 52)	92	75J	Gear Shift Gate
40	4002P	Flange Fitting	93	6274H	Shift Ball Cover Gasket
41	4003P	Street Elbow 90°, 1/2 - 1/4 N.P.T.	94	2505P	"O" Ring 1/8 x 3/4
42	6271H	Oil Seal	95	1003P	Lockwasher 5/16
43	4001P	Pipe Plug 1/4 - 18 N.P.T.	96	3105P	Hex Bolt 5/16 - 18 UNC x 7/8
44	3087P	*Hex Bolt 5/16 - 18 x 1 - 1/2 Grade 5	97	633A82	Gear Shift Lever Assy.
45	1007P	Lockwasher 5/16 Extra Heavy	98	633A78	Transaxle Assembly Less Brake Drum & Shift Lever
			99	7835M	Woodruff Key 1/8 x 1/2

\*STANDARD HARDWARE - PURCHASE LOCALLY

KEY NO.	PART NO.	DESCRIPTION	KEY NO.	PART NO.	DESCRIPTION
1	5000P	E-Ring	27	795R	Tire Valve
2	1528P	Washer 13/16 x 1 - 1/4 x 14 Ga.	28	8856H	Cross Fitting 1/4 - 28 Taper Thrd.
3	1300H	Bearing	29	1562P	Front Wheel and Bearings
4	634A52I	Front Axle w/Bearings (Inc. Key No. 3)	30	8758H	Rear Ax 5/22 x 1
5	2294P	Hex Bolt 5/8 - 11 x 5 Grade 5	31	8758H	Rear Ax 5/22 x 1
6	634A277	Spline Complete - R.H.	32	4631H	Elastic Nut 3/8 - 16 UNF
7	8040H	Flanged Bearing	33	8162H	Dist. Cap. Cover
8	7810H	Hardware Washer 3/8 - 24 UNF	34	3008P	Hex Bolt 5/16 - 18 x 1/2
9	2515R	Hardwood Washer	35	2502P	*Hex Bolt 3/8 - 24 x 1
10	7838R	Tie Rod and Joints (Inc. Key No's. 15, 16, 17, 18 & 19)	36	546P	*Hex Jam Nut 3/8 - 24 UNF
11	6855M	Grease Fitting			
12	1505P	Washer 9/32 x 1/2 x 14 Ga.			
13	4764H	Hublock Nut 5/8 x 11 UNC			
14	634A728	Spline Complete - L.H.			
15	8515R	Tie Rod Joint (R.H. Thread)			
16	556P	*Hex Jam Nut 1/2 - 20 (R.H. Thread)			
17	634A819	Tie Rod and Nuts (Inc. Key No's. 16 & 18)			
18	556P	*Hex Jam Nut 1/2 - 20 (L.H. Thread)			
19	8514R	Tie Rod Joint (L.H. Thread)			
20	634A813	Steering Gear Sector and Arm			
21	1502P	Washer 4/8 Ga. - 1 - 1/4 x 16 Ga.			
22	6842H	Grease Fitting			
23	7837H	Dist. Cap. Cover			
24	634A98	Steering Ball C- and W-Ends			
25	3328R	Front Tire 18 x 6.50 - 8 T.S.			

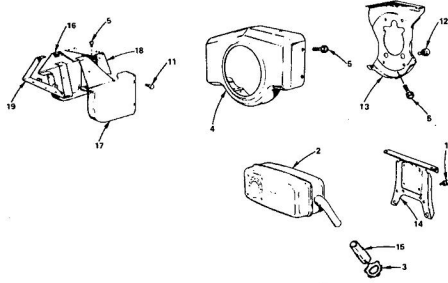
\*STANDARD HARDWARE - PURCHASE LOCALLY

### REPAIR PARTS

16T GARDEN TRACTOR—MODEL NO. T63288R  
BRIGGS AND STRATTON ENGINE—MODEL NO. 401417, TYPE NO. 0127-01

#### MUFFLER, AIR GUIDE AND HOUSING GROUP

ALL ENGINE PARTS MUST BE PURCHASED THROUGH AND SERVICE PERFORMED BY YOUR LOCAL BRIGGS AND STRATTON DEALER.



KEY NO.	PART NO.	DESCRIPTION	KEY NO.	PART NO.	DESCRIPTION
1	93643	Screw - Sems	13	392934	Back Plate As'y.
2	392999	Muffler - Exhaust	14	222776	Bracket - Muffler
3	91547	Locknut - Muffler	15	231462	Connector - Muffler
4	392681	Housing - Blower	16	392981	Cover As'y. - Air
5	93198	Screw - Sems	17	392982	Cover As'y. - Air
11	93976	Screw - Hex Hd. (Back Plate to Cylinder)	18	393025	Rear Insert As'y.
12	93777	Screw - Hex Hd. (Back Plate to Cylinder)	19	222775	Frame - Air Guide

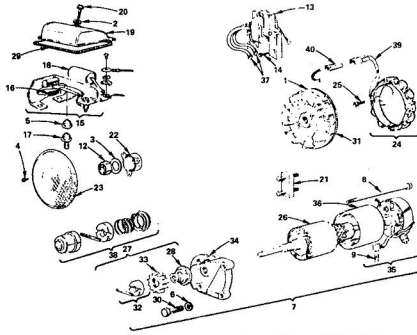
OPTIONAL EQUIPMENT  
392114 Soak Arrestor Assembly  
222973 Deflector (Side Outlet)  
93709 Screw (6 Required)

### REPAIR PARTS

16T GARDEN TRACTOR—MODEL NO. T63288R  
BRIGGS AND STRATTON ENGINE—MODEL NO. 401417, TYPE NO. 0127-01

#### STARTER MOTOR GROUP

ALL ENGINE PARTS MUST BE PURCHASED THROUGH AND SERVICE PERFORMED BY YOUR LOCAL BRIGGS AND STRATTON DEALER.



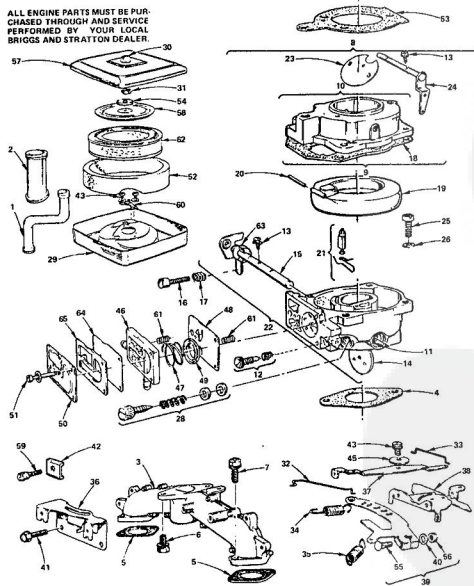
KEY NO.	PART NO.	DESCRIPTION	KEY NO.	PART NO.	DESCRIPTION
1	392966	Flywheel and Ring	21	19203	Pulley - Flywheel (Optional Equip)
2	271037	Washer	22	222674	Cup - Screen Mounting
3	222511	Washer - Spring	23	222673	Screen Fluff Rotating
4	93805	Screw - Sems	24	393474	Stator - Alternator
5	290222	Shaft - Plunger	25	93521	Screw - Sems
6	90368	Lockwasher	26	392747	Armature Assembly
7	392017	Motor - Starting	27	391461	Drive As'y. - Starter
8	93887	Thru Bolt	28	391135	Clutch As'y. - Starter
9	391705	Brush Set	29	271039	Gear - Breaker Box
10	239264	Nut - Hex	30	91162	Screw - Hex Hd. 5/16 - 18 x 1-1/2
11	392329	Armature Assembly	31	391382	Gear - Flywheel Ring Inc. Mfg. Parts
12	392329	Screw - Armature Mfg. Sem	32	391462	Retainer and Pin Assembly
13	392329	Breaker As'y. - Ignition	33	280104	Gear - Start
14	28218	Pin	34	392602	Driver End Cap
15	393463	Breaker As'y. - Ignition	35	393019	Commutator End Cap As'y. - Starter
16	28218	Pin	36	392744	Housing Assembly
17	393450	Plunger - Breaker	37	271798	Terminal - Ignition Cable
18	392912	Commuter	38	392354	Kit - Pinion Spring
19	212219	Cover - Breaker Point	39	393456	Diodes and Connector As'y.
20	93854	Screw - Sems	40	393362	Alternator Harness As'y.

### REPAIR PARTS

16T GARDEN TRACTOR—MODEL NO. T63288R  
BRIGGS AND STRATTON ENGINE—MODEL NO. 401417, TYPE NO. 0127-01

#### AIR CLEANER-CARBURETOR GROUP

ALL ENGINE PARTS MUST BE PURCHASED THROUGH AND SERVICE PERFORMED BY YOUR LOCAL BRIGGS AND STRATTON DEALER.



### REPAIR PARTS

16T GARDEN TRACTOR—MODEL NO. T63288R  
BRIGGS AND STRATTON ENGINE—MODEL NO. 401417, TYPE NO. 0127-01

#### AIR CLEANER-CARBURETOR GROUP

ALL ENGINE PARTS MUST BE PURCHASED THROUGH AND SERVICE PERFORMED BY YOUR LOCAL BRIGGS AND STRATTON DEALER.

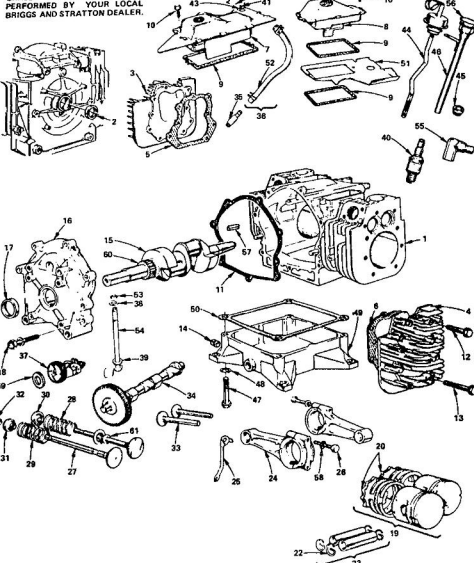
KEY NO.	PART NO.	DESCRIPTION	KEY NO.	PART NO.	DESCRIPTION
1	280185	Tube - Breather	32	261444	Link - Governor
2	280188	Tube - Intake	33	261460	Link - Speed Control
3	392970	Manifold As'y. - Intake	34	261446	Spring - Governor
4	271015	*Gasket - Carb. Mfg.	35	261487	Spring - Governor Idle
5	270884	*Gasket - Intake Manifold Mfg.	36	279807	Bracket - Speed Control
6	90415	Screw - Carb. Mfg. Sem	37	222628	Lever - Speed Control
7	92308	Screw - Intake Manifold Mfg. Sem	38	392013	Plate As'y. Governor Control
8	392806	Carburetor As'y.	39	392943	Lever As'y. - Governor
9	282207	Body As'y. - Upper Carb.	40	222280	Washer
10	393283	Body - Upper Carb.	41	93868	Screw - Sems
11	23108	Bodying - Throttle Shaft	42	221525	Clamp - Casing
12	292681	*Valve As'y. - Carb. Idle	43	93866	Screw - Sems
13	93499	Screw - Throttle and Choke Valve Mfg. Sem	44	231172	Brushing - Speed Control
14	222432	Valve - Throttle	45	280197	Body - Pump
15	392872	Shaft and Lever - Throttle	46	261395	*Spring - Pump
16	91620	Screw - Mach. Fil. Hd. B - 32 x 5/8	47	270988	*Diaphragm
17	28157	Spring - Throttle Adj.	48	211777	*Cap - Spring
18	271008	*Gasket - Carburetor Body	49	222615	Cover - Diaphragm
19	28514	Float - Carburetor	50	222615	Cover - Diaphragm
20	230898	*Pin - Float Hinge	51	93829	Screw - Diaphragm Cover
21	269696	*Valve - Fuel Inlet	52	271180	Washer
22	392985	Body - Lower Carb.	53	90853	Bolt - Governor Lever
23	222010	Valve - Choke	54	92278	Nut - Hex 10 - 24
24	392873	Shaft and Lever - Choke	55	222532	Cover - Air Cleaner
25	90764	Screw - Machine, Fil. Hd. 10/32 x 5/8	56	222835	Cartridge Plate - Air Cleaner
26	92290	Washer - Lock 10 x 1/16 x 3/64	57	93465	Screw - Sems
28	391325	Jet - Main Assembly	58	392943	Mounting Strap As'y. - Air Cleaner
29	222751	Body - Air Cleaner	59	261556	*Spring
30	212292	Knob - Air Cleaner	60	392642	Cartridge - Air Cleaner
31	93715	Nut - Hex	61	271013	Washer - Choke Shaft
			62	270989	*Diaphragm - Damper
			63	271026	*Gasket - Carb. Pump
			64	392718	Gasket Set (Includes Parts Marked *)
			...	393301	Carburetor Overhaul Kit (Includes Parts Marked *)

### REPAIR PARTS

18T GARDEN TRACTOR - MODEL NO. T6328BR  
BRIGGS AND STRATTON ENGINE - MODEL NO. 401417, TYPE NO. 0127-01

#### CYLINDER, CRANKSHAFT AND ENGINE BASE GROUP

ALL ENGINE PARTS MUST BE PURCHASED THROUGH AND SERVICE PERFORMED BY YOUR LOCAL BRIGGS AND STRATTON DEALER.



### REPAIR PARTS

18T GARDEN TRACTOR - MODEL NO. T6328BR  
BRIGGS AND STRATTON ENGINE - MODEL NO. 401417, TYPE NO. 0127-01

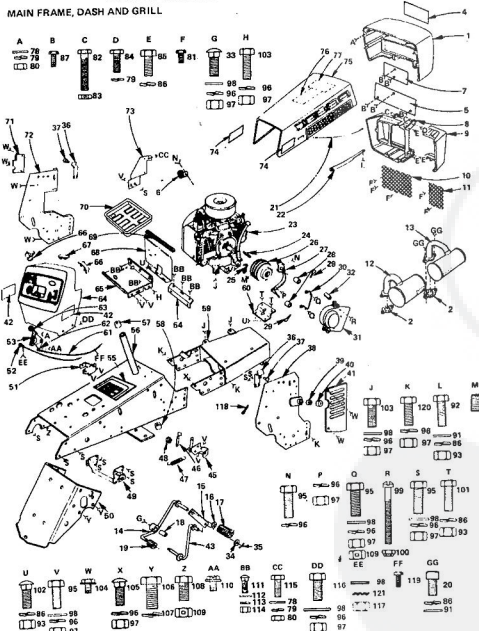
#### CYLINDER, CRANKSHAFT AND ENGINE BASE GROUP

KEY NO.	PART NO.	DESCRIPTION	KEY NO.	PART NO.	DESCRIPTION
1	392374	Cylinder Assembly	26	92009	Screw - Connecting Rod
2	391085	Seal - Oil	27	296420	Valve - Exhaust
3	212179	Head - Cylinder No. 1	28	68006	Spring - Intake Valve
4	212180	Head - Cylinder No. 2	29	29023	Spring - Exhaust Valve
5	270984	Gasket - Cylinder Head No. 1	30	221506	Retainer - Intake Valve
6	270985	Gasket - Cylinder Head No. 2	31	202560	Retainer - Exhaust Valve
7	392343	Breather Assembly No. 1	32	98350	Retainer - Exhaust Valve Retainer
8	391102	Breather Assembly No. 2	33	201568	Tappet - Valve
9	27203	Gasket - Valve Cover	34	215173	Gra - Cam
10	93294	Screw - Set	35	62718	Elbow - Connector
11	270982	Gasket - Crankcase Cover 1/8" Thick	36	923244	Pipe - Fuel
11	271145	Gasket - Crankcase Cover .005" Thick	37	392373	Gra - Governor
12	211446	Gasket - Crankcase Cover .008" Thick	38	220863	Washer - Gov. Crank (outside)
12	93111	Screw - Cylinder Head (1 - 15/16" Long)	39	98552	Washer - Gov. Crank (inside)
13	93113	Screw - Cylinder Head (2 - 5/16" Long)	40	392345	Plug - Spark (Retainer)
14	91084	Plug - Oil Drain	41	90576	Nut - Hex 8 - 32
15	392304	Crankshaft	42	23114	Terminal
16	392327	Cover Assembly - Crankcase	43	280180	Grommet - Insulator
17	291675	Seal - Oil	44	392181	Cap and Dipstick - Oil Filter
18	92847	Cover - Crankcase Cover Mfg. Sem	45	68838	Seal - Filter Tube
19	392321	Piston Assembly - Standard	46	392782	Tube - Oil Filter
19	392343	Piston Assembly - .010" O.S.	47	93263	Screw - Hex Hd.
19	392344	Piston Assembly - .020" O.S.	48	93268	Washer
19	392345	Piston Assembly - .030" O.S.	49	932412	Base - Engine
20	392327	Ring Set - Piston - Standard	50	279961	Gasket - Engine Base
20	392343	Ring Set - Piston - .010" O.S.	51	93053	Ball - Valve
20	392344	Ring Set - Piston - .020" O.S.	52	93053	Clamp - Fuel Pipe
20	392345	Ring Set - Piston - .030" O.S.	53	93051	Retainer - E-Bracket
20	392342	Ring Set - Piston - .020" O.S.	54	393309	Crank - Governor
22	290294	Lock - Piston	55	60230	Washer - Spark Plug
23	290991	Pin Assembly - Piston - Standard	56	270933	Seal - Oil Filter Cap
23	291295	Pin Assembly - Piston - .005" O.S.	57	61760	Key - Flywheel
24	392320	Rod Assembly - Connecting	58	220862	Washer
25	292460	Dipper - Connecting Rod	59	222773	Washer - Thrust
			60	161363	Gear - Timing
			61	393279	Seal As'y. and Retainer

\*Inc. in Gasket Set - 392378

### REPAIR PARTS

ROPER 18T TWIN-GARDEN TRACTOR - MODEL NO. T8328AR  
MAIN FRAME, DASH AND GRILL



### REPAIR PARTS

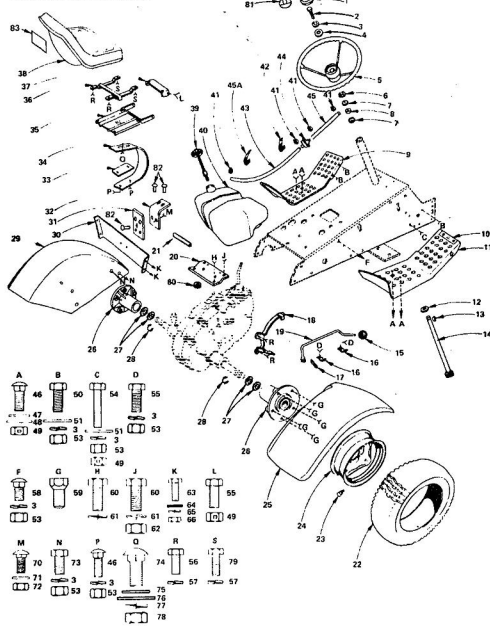
ROPER 18T TWIN-GARDEN TRACTOR - MODEL NO. T8328AR  
MAIN FRAME, DASH AND GRILL

KEY NO.	PART NO.	DESCRIPTION	KEY NO.	PART NO.	DESCRIPTION
1	911J	Grill - Upper	68	107J	Battery Heat Shield
2	876J	Gasket - Exhaust Manifold	69	787AR	Hood Seal
3	245J	Decal - R.H.	70	885AR	Battery Tray
4	291J	Grill - Panel - Lower	71	85J	Cover - L.H.
5	5200R	Wire - Coil	72	113J	Bracket - Battery Support - L.H.
7	290J	Grill - Panel - Upper	73	98J	Bracket - Rectifier
7	7937R	Grill - Lower	74	246J	Decal - Roper Logo
9	7938R	Grill - Side	75	634AR01	Hood As'y.
10	2014R	Lock - Screen - L.H.	76	8028R	Decal - Instruction
11	2073R	Grill Screen - R.H.	77	8880R	Decal - Wiring
12	105J	Muffler - Rear	78	1505P	Washer 5/16 x 5/8 x 16 Ga.
13	104J	Muffler - Front	79	1002P	Lockwasher 1/4"
14	634AR01	Lock - Screen	80	503P	Hex Nut 1/4 - 20 UNC
15	92J	Link	81	6501P	Phillips Pan Hd. Thd. Self Tap. 10 - 24 x 3/8 Type 1
16	92J	Push-On Nut	82	3267P	*Hex Bolt 1/4 - 20 x 1 - 1/2 Grade 5
17	53J	Rubber Pad	83	1606H	Locknut 1/4 - 20 UNC
18	91J	Pivot Spacer	84	2003P	*Hex Bolt 1/4 - 20 x 3/4
19	2812R	Lock - Key	85	3010P	*Hex Bolt 5/16 - 18 x 3/4
20	3368P	Sec. Hd. Cap Screw 5/16 - 18 x 3/4	86	1003P	Lockwasher 5/16
21	8058R	Grill Cable	87	6554P	*Phillips Pan Hd. Thd. Self Tap. 10 - 18 x 1/2 on Thd. x 1/2 Bunt Point
22	878J	Grill Brace	88	3022P	*Hex Bolt 1/4 - 20 x 1 - 1/2 Grade 5
22	634AR10	Engine, Clean 18 H.P. 949M-GAO18/2417A	89	1537P	*Washer 11/32 x 11/16 x 16 Ga.
24	9205R	Sec. Key 1/4 x 2	90	3011P	*Hex Bolt 5/16 - 18 x 1
25	8245R	Belt Retainer Finger	91	604P	*Hex Nut 5/16 - 18 UNC
26	634A104	Engine Pulley w/Std. Screws	92	4940P	Hex. Forged Socket Hex. Set Screw 5/16 - 18 x 1/2
27	634A27	Bolt Guide Weldment	93	3022P	*Hex Bolt 3/8 - 16 x 1
28	8104H1	Spacer	94	1004P	Lockwasher 3/8
29	4935A	Retainer Spring	95	501P	*Hex Nut 3/8 - 16 UNC
30	9011H	Belt Retainer	96	1505P	Washer 13/32 x 13/16 x 16 Ga.
31	634A59	Belt Guard Weldment	97	2154P	Std. Fil. Hd. Machine Screw 1/4 - 20 x 2 - 1/4
32	8238H	Self Spacer	100	347H	Hiplock Nut 1/4 - 29 UNC
33	50P	Washer 17/32 x 1 x 16 Ga.	102	6P	*Carriage Bolt 5/16 - 18 x 3/4
34	1548P	Cotter Pin 1/8 x 1	103	3025P	*Hex Bolt 3/8 - 16 x 1 - 1/4
36	634A00	Hood Latch	104	5557P	Hex Washer Hd. Thd. Cutting Screw 1/4 - 20 x 1/2 Type 1
37	6457R	Support Bumper	105	61P	Std. Neck Carriage Bolt - Shroul. Shroul. 3/8 - 18 x 1 Ga. 5
38	634A03	Battery Support Bracket (Inc. Key 39)	106	3035P	*Hex Bolt 7/16 - 14 x 1 - 1/4
39	7368R	Bearing	107	1001P	Lockwasher 7/16
40	8906R	Cap - R.H.	108	3021P	*Hex Bolt 3/8 - 16 x 3/4
41	7729R	Cover - R.H.	109	6394H	Hex. Std. Hd. Machine Screw w/Sems. Int. Tooth Lockwasher 10 - 22 x 1/4
42	291J	Modal Decal - Side of Dash	110	6055P	Hex. Std. Hd. Machine Screw w/Sems. Int. Tooth Lockwasher 10 - 22 x 1/4
43	634A02	Lever Weldment	111	53P	Std. Neck Carriage Bolt 10 - 24 x 1/2
45	634A136	Header Weldment R.H. - Front	112	1536P	Washer 7/32 x 7/16 x 16 Ga.
46	7844R	Belt Tightener Arm	113	1000P	Lockwasher No. 10
47	7948R	Return Spring	114	895P	*Hex Nut 10 - 24 UNC
48	7810R	Locknut 3/8 - 24 UNF	115	2154P	*Hex Bolt 3/8 - 16 x 1 - 1/2
49	634A14	Header Weldment - Rear	116	515P	*Hex Nut 3/8 - 24 UNF
50	634A78	Drawbar and Weldnuts	118	2514P	Cotter Pin 1/4 x 1
51	634A55	Header Weldment - L.H. - Front	119	5922P	*Slotted Pan Hd. Self Tap. Screw No. 8 x 3/4 Typ. AB
52	7931R	Choke Control	120	3025P	*Hex Bolt 3/8 - 16 x 1 - 1/4 Ga. 5
53	1518J	Throttle Control (Inc. Key 61, 62 & 63)	121	1402P	Std. Tooth Lockwasher - 3/8
54	927J	Decal (Std. Pattern)			
55	9634R	Chassis As'y. (Inc. Key 57 & 58)			
56	634A88	Bearing			
57	6468H	Bearing			
58	4760H	Engine Mount As'y.			
59	634A08	Grill Spacer			
60	98J	Throttle Wire & Casing			
61	9903R	Clamp			
62	8104H	Throttle Control Lever			
63	1551J	Dashboard (Inc. Key No's. 68 and 67)			
64	634A93	Battery Support			
65	100J	Clip - Dashboard			
66	1998R	Clip - Dashboard			
67	8911R	Clip - Dashboard			

\*STANDARD HARDWARE - PURCHASE LOCALLY

**REPAIR PARTS**

ROPER 18T TWIN-GARDEN TRACTOR-MODEL NO. T8328AR  
STEERING AND FINAL DRIVE



**REPAIR PARTS**

ROPER 18T TWIN-GARDEN TRACTOR-MODEL NO. T8328AR  
STEERING AND FINAL DRIVE

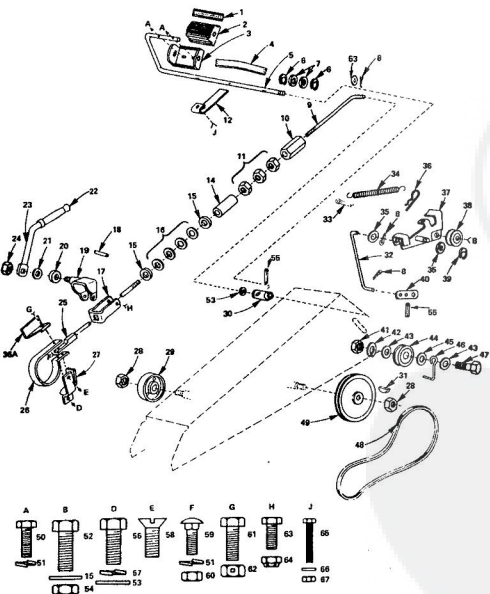
KEY NO.	PART NO.	DESCRIPTION	KEY NO.	PART NO.	DESCRIPTION
1	9719R	Steering Wheel Insert	46	61P	St. Nk. Shit. Carr. Bolt 3.8 x 1.0 x 5
2	3023P	*Hex Bolt 3/8 - 16 x 1	47	1513P	Washer 13/32 x 13/16 x 16 Ga.
3	1004P	*Lockwasher 3/8	48	1519P	Washer 15/32 x 1 x 12 Ga.
4	1659P	Washer 7/16 x 1 x 10 Ga.	49	6294H	Locknut 3/8 UNC
5	2644R	Steering Wheel	50	3025P	*Hex Bolt 3/8 - 18 x 1 - 1/4
6	5003P	E-Ring	51	1561P	Washer 13/32 x 13/16 x 11 Ga.
7	9007H	Cap	53	501P	*Hex Nut 3/8 - 16 UNC
8	5949H	Rubber Bushing	54	3027P	*Hex Bolt 3/8 - 16 x 1 - 1/2
9	7903R	Foot Rest - L.H.	55	3029P	*Hex Bolt 3/8 - 16 x 7/8
10	8900R	Decal (Attach, Clutch)	56	2010P	*Hex Bolt 5/16 - 18 x 3/4
11	7904H	Foot Rest - R.H.	57	1003P	*Lockwasher 5/16
12	1653P	Washer 5/16 x 1 - 1/4 x 16 Ga.	58	18P	*St. Neck Carriage Bolt 3/8 - 16 x 3/4
13	9858M1	Woodruff Key 3/16 x 5/8	59	1304H	Hub Bolt
14	634AE26	Steering Shaft and Pinion	60	3034P	*Hex Bolt 7/16 - 14 x 1
15	7887R	Control Knob	61	1001P	*Lockwasher 7/16
16	6442H	Shift Rod Bracket	62	500P	*Hex Nut 7/16 - 14 UNC
17	2511P	Cotter Pin 3/16 x 1	63	2003P	*Hex Bolt 1/4 - 20 x 3/4
18	634A22A	Shift Rod	64	1505P	Washer 9/32 x 29/32 x 16 Ga.
19	6477H	Range Shift Rod	65	1002P	*Lockwasher 1/4
20	9694H	Transmission Bracket	66	503P	*Hex Nut 1/4 - 20 UNC
21	8674R	Seat Stop	70	6P	*Shot Shoulder Sq. Neck Carriage Bolt 5/16 - 18 x 24
22	4607R	Rear Tire 23 x 10.50 - 12	71	1537P	Washer 11/22 x 11/16 x 16 Ga.
23	795R	Tire Valve	72	1868H	Lock Nut 5/16 - 18 UNC
24	3535R	Rear Wheel 2 x 7 JA	73	3021P	*Hex Bolt 3/8 - 18 x 3/4
25	9428R	Fender - R.H.	74	629P	Carriage Bolt 1/2 - 13 x 1 - 1/4 Gr. 5
26	634A922	Wheel Hub - Rear	75	1878P	Washer 3/4 x 1 - 1/8 x 11 Ga.
27	9427R	Acute Thread Washer	76	1560P	Washer 17/32 x 1 - 1/2 x 11 Ga.
28	5645R	Retaining Ring	77	1000P	*Lockwasher 1/2
29	9427R	Fender - L.H.	78	502P	*Hex Nut 1/2 - 13 UNC
30	2556R	Bracket - Tail Light	79	3155P	*Hex Bolt 5/16 - 18 x 7/8
31	1251	Seat Stop Bracket	80	9947R	Rubber Grommet
32	1261	Fuel Tank Retainer	81	2361	Steering Wheel Decal
33	8147H	Seat Spring Reinforcement	82	1241	Rubber Bumper
34	7898R	Seat Spring	83	245J	Decal
35	634A716	Seat Plate Weldment	84	3161	Warranty Fact Tag
36	634A532	Seat Bracket Weldment	—	246J	Owners Manual
37	7977R	Bracket, Seat Pivot			
38	9746H	Seat			
39	7888R	Fuel Gauge			
40	7889R	Fuel Tank			
41	8999R	Fuel Line Clamp			
42	2751R	Clip, Fuel Line			
43	7834P	Fuel Line (Long)			
44	286J	In-Line Filter			
45	7833R	Fuel Line (Short)			
45A	9297R	Clip - Fuel Line			

\*STANDARD HARDWARE PURCHASE LOCALLY

**REPAIR PARTS**

ROPER 18T TWIN-GARDEN TRACTOR-MODEL NO. T8328AR

BRAKE AND CLUTCH



**REPAIR PARTS**

ROPER 18T TWIN-GARDEN TRACTOR-MODEL NO. T8328AR

BRAKE AND CLUTCH

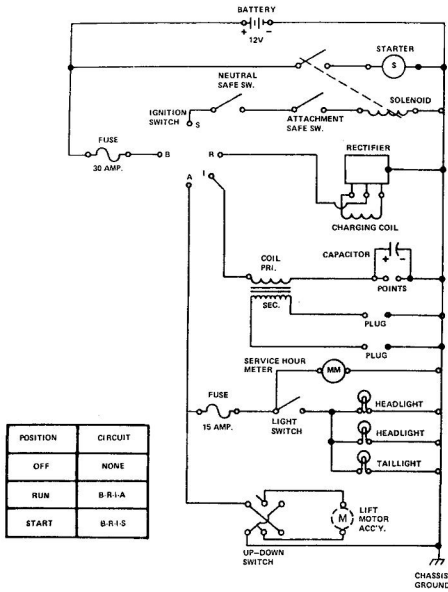
KEY NO.	PART NO.	DESCRIPTION	KEY NO.	PART NO.	DESCRIPTION
1	8899R	Insert Clutch-Brake	37	634A754	Idle Bracket Weldment
2	8822R	Foot Pedal	38	6238H	Idle
3	8156H	Foot Pedal Bracket	39	5000P	E-Ring
4	9008H	Spring	40	634A89B	Steering Arm Assembly
5	1111	Foot Pedal Shaft	41	500P	*Hex Nut 7/16 - 14 UNC
6	5001P	E-Ring	42	1001P	*Lockwasher 7/16
7	1523P	Washer 21/32 x 7/8 x 16 Ga.	43	1544P	Washer 15/32 x 15/16 x 16 Ga.
8	2505P	Cotter Pin 1/8 x 3/4	44	6835H	Flat Idle
9	2322R	Brake Rod - Front	45	1520P	Washer - 409 I.D. x 1 - 1/8 x 11 Ga.
10	6417H	Lardbuckle	46	6479H1	Belt Fender
11	501P	*Hex Nut 3/8 - 10 UNC	47	3262P	*Hex Bolt 7/16 - 14 x 2 - 1/2
12	7823R	Safety Start Actuator	48	2892H	V-Belt
13	2201R	Bushing	49	6481H2	Pulley, Transmission
14	1527P	Washer 13/32 x 13/16 x 11 Ga.	50	3035P	*Hex Bolt 1/4 - 20 x 3/4
15	2203R	Spring Washer	51	1002P	*Lockwasher 1/4
16	2203R	Spring Washer	52	3052P	*Hex Bolt 3/8 - 24 x 1
17	9656R	Parking Brake Yoke	53	1513P	*Washer 13/32 x 13/16 x 16 Ga.
18	1754H	Roll Pin	54	548P	*Hex Jam Nut 3/8 - 24 UNF
19	634A887	Lock Bracket Assembly	55	5142H	Roll Pin
20	2221R	Parking Brake Spacer	56	3027P	*Hex Bolt 3/8 - 16 x 7/8
21	5999R	Spring Washer	57	1004P	*Lockwasher 3/8
22	4379H	Handle Grip	58	3164P	Flar Hd. Machine Screw - Undercut 3/8 - 16 x 24
23	626A241	Parking Lock Handle Assembly	59	11P	Sq. Neck Carriage Bolt 1/4 - 20 x 5/8
24	7810H	Clutch Centerlock Nut 3/8 - 24 UNF	60	5009P	*Hex Nut 1/4 - 20 UNC
25	626A365	Brake Rod Assembly	61	3155P	*Hex Bolt 5/16 - 18 x 7/8
26	634A157	Brake Band and Lining	62	1865H	Locknut 5/16 - 18 UNC
27	634A168	Brake Bracket Assembly	63	3244P	*Hex Bolt 1/4 - 20 x 5/8 Gr. 5
28	9294H	Lock Nut 1/2 - 20 UNF	64	9071H	*Hex Hd. Mach. Screw 5 - 32 x 1
29	7648H1	Brake Drum	65	3246P	Hooklock Nut 1/4 - 20 UNF
30	634A889	Brake Arm Assembly	66	1587P	Washer 5/32 x 3/8 x 20 Ga.
31	9858M1	Woodruff Key	67	502P	*Conical Lock Nut 5 - 32 UNC
32	9268R	Clutch Rod			
33	2514P	Cotter Pin 1/4 x 1			
34	6488H	Spring			
35	1503P	*Washer 17/32 x 1 - 1/16 x 21 Ga.			
36	4929M	Retainer Spring			
36A	544J	Hose Shield			

\*STANDARD HARDWARE PURCHASE LOCALLY

**REPAIR PARTS**

ROPER 18T TWIN-GARDEN TRACTOR-MODEL NO. T8328AR

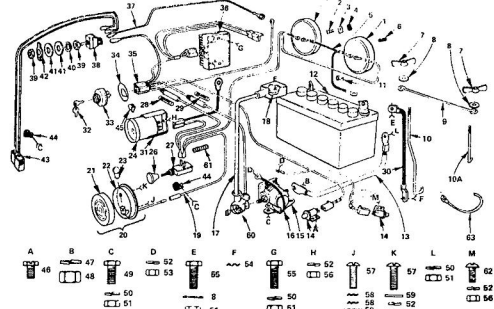
**SCHEMATIC DIAGRAM**



**REPAIR PARTS**

ROPER 18T TWIN-GARDEN TRACTOR-MODEL NO. T8328AR

**ELECTRICAL**

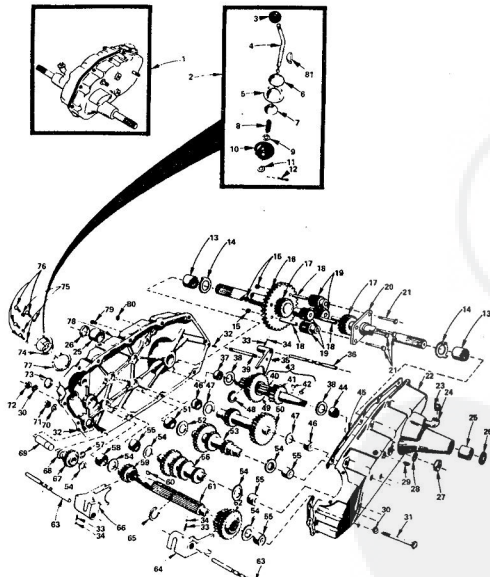


KEY NO.	PART NO.	DESCRIPTION	KEY NO.	PART NO.	DESCRIPTION
1	6452R	Headlight	34	8866R	Terminal Identifier
2	5554P	Pin-Rip Hd. Tnd. Cutting Screw No. 10 - 18 x 1/2	35	8555R	Wire Harness-Main
3	8780H	Mounting	36	7753R	Regulator-Rectifier
4	8784H	Rubber Spacer	37	8669R	Wire Ground Lift Switch
5	8231H	Headlight Ground Wire	38	8864R	Switch-Elec. Lift
6	8197H	Hose	39	555P	Hex Nut, Slim 7/16 - 32 NS-2A
7	3148A	Battery Plug	40	7318R	Lockwasher-Internal Tooth
8	1506P	Battery Clamp	41	1518P	Washer 15/32 x 11/16 x 16 Ga.
9	7958R	Battery Bolt	42	8348R	Switch-Plate
10	2665R	Battery Bolt	43	8865R	1/8" Horse Harness
10A	8813A	Insulated Clip	44	5320R	Clip-Wire
11	4171R	Battery Bolt	45	8913A	Clip
12	221S	Cable-Solenoid to Starter	46	5634P	Socket Hex Induzed Hd. Self Tapping Screw No. 10 - 24 x 3/8 Type 1
13	2235R	Relay Switch	47	1003P	*Lockwasher 5/16
14	7753R	Solenoid	48	538P	*Hex Slim Nut 1/8 - 24 UNF
15	7754R	Wire-Ground to Solenoid	49	3118P	*Hex Bolt 1/4 - 20 x 6/8
16	6027R	Battery Cable	50	1059P	*Lockwasher 1/8
17	116J	Battery Cable	51	603P	*Hex Nut 1/4 - 20 UNF
18	8030R	Light Harness	52	1059P	*Lockwasher 1/8
19	8030R	Light Harness	53	645P	*Hex Nut No. 10-32 UNF
20	8030H	Light Harness	54	1459P	*Flat Tooth Lockwasher 5/8
21	8224H	Lens-Tailight	55	3003P	*Hex Bolt No. 10 - 24 UNF
22	8224H	Lens-Tailight	56	1469P	*Flat Tooth Lockwasher No. 10
23	8291H	Bulb No. 1895 2 Candle Power	57	3024P	*Std. Truss Hd. Mach. Screw 10 - 24 x 3/8
24	7782R	Maintenance Meter	58	1604P	*Std. Tooth Lockwasher No. 10
25	7794R	Light Switch Knob	59	1604P	*Washer 7/32 x 1/2 x 18 Ga.
26	7794R	Light Switch Knob	60	611	Standard Terminal Cover
27	7794R	Light Switch Knob	61	302J	Wire Guard
28	2212R	Fuse - 15 Amp.	62	2359P	Std. R.H. Mach. Screw No. 10 - 24 x 1/2
29	624R	Fuse - 15 Amp.	63	6106R	Cable Tie
30	2753R	Battery Cable-Ground			*STANDARD HARDWARE-PURCHASE LOCALLY
31	8969R	Maintenance Meter Bracket			
32	7852H	Key Set			
33	2683R	Ignition Switch			

**REPAIR PARTS**

ROPER 18T TWIN-GARDEN TRACTOR-MODEL NO. T8328AR

**TRANSAXLE**



**REPAIR PARTS**

ROPER 18T TWIN-GARDEN TRACTOR-MODEL NO. T8328AR

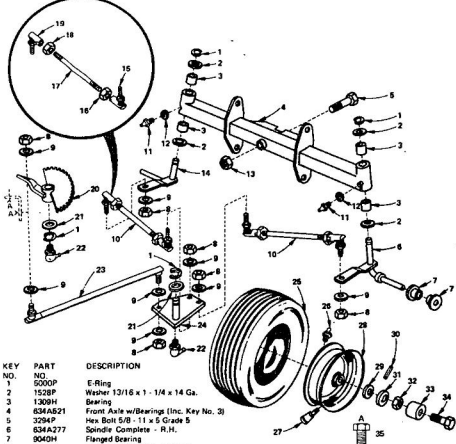
**TRANSAXLE**

KEY NO.	PART NO.	DESCRIPTION	KEY NO.	PART NO.	DESCRIPTION
1	63A92	Transaxle Assembly Less Brake Drum & Shift Lever (Inc. Key No's. 13 thru 80)	44	8119M	Neutric Bearing
2	63A92	Gear Shift Lever Assembly (Inc. Key No's. 3 thru 12 and 81)	45	6275H	Gasket-Gearcase
3	7887R	Control Knob	46	8117M	Neutric Bearing
4	9629R	Gear Shift Lever	47	7350H	Thrust Bearing Race
5	63A85	Gear Shift Ball Cover and Pin	48	6278H	Snap Ring - Crescent Type
6	5013R	Gear Shift Cap	49	63A33	High - Low Range Gears and Hub
7	8139H1	Shift Lever Guide Ball	50	7350H	4th Reduction Shaft and Gears
8	4924H	Spring	51	7350H	Thrust Bearing Race
9	1544P	Washer 15/32 x 5/8 x 16 Ga.	52	7350H	Thrust Bearing Race
10	8105R	Shift Mechanism Seal	53	63A31	2nd Reduction Shaft and Gears
11	1525P	Washer 5/16 x 15/16 x 11 Ga.	54	1320H	Thrust Bearing Race
12	2605P	Center 1/8 x 3/4	55	4895H	Needle Bearing
13	3039R	Needle Bearing	56	63A30	Speed Change Gears and Shaft
14	6266H	Axis Thrust Washer	57	5001P	E Ring
15	7810H	Centerlock Gripco Nut 3/8 - 24 UNF	58	4894H	Needle Bearing
16	8652H	Final Drive Gear	60	6231H	Low Speed Pinion
17	63A73	Axle Shaft and Gear	60	9858M1	Woodruff Key
18	6252H1	Bushing - Differential Pinion	61	8218H	Input Shaft
19	8657H	Differential Pinion	62	63A11	Intermesh and High Speed Pinions
20	6263H1	Differential Carrier	63	6216H	Shft. Fork L.H.
21	3056P	1" Thread Length	64	4219H	Shft. Fork L.H.
22	63A89	Gear Case and Bearings - L.H.	65	4828H	Snap Ring - Crescent Type
23	4002P	Pipe Plug 1/2 - 14 N.P.T.	66	6809H	Shft. Fork - R.H.
24	4003P	90 Street Elbow 1/2 - 14 N.P.T.	67	1163R	Reverse Idler Gear
25	92281	Sintered Iron Bearing	68	7397H	Reverse Idler Thrust Washer
26	7303R	Oil Seal	69	7885H	Reverse Idler Shaft
27	9204H	Lock Nut	70	1167R	Sculing Washer
28	6271H	Oil Seal	71	541P	*Hex Jam Nut 7/16 - 20 UNF
29	3001P	Pipe Plug 1/4 - 18 N.P.T.	72	504P	Oil Seal
30	1007P	Lockwasher 5/16 Extra Heavy	73	6270H	Oil Seal
31	3087P	Hex Bolt 5/16 - 18 x 1 - 1/2 Gr. 5	74	76J	Gear Shift Gate
32	6277H	Down Pin	75	1003P	*Lockwasher 5/16
33	6277H	Down Pin	76	3158P	*Hex Bolt 5/16 - 18 x 7/8
34	7302A	Screw - Shift Fork Detent	77	6274H	Gasket - Shift Ball Cover
35	6209H	Shift Fork High - Low Range	78	63A30	Gear Case, Reverse Idler Shaft and Bearings R.H.
36	6217H	High - Low Range Shft. Fork Shaft	79	5855H	Pressure Relief Valve
37	8118M	Needle Bearing	80	6206H	Oil Seal
38	6206H	Thrust Bearing Race	81	7835M	Woodruff Key
39	6215H	High - Low Range Shft. Shaft			*STANDARD HARDWARE-PURCHASE LOCALLY
40	6221H	3rd Reduction Gear Shaft			
41	8655H	4th Reduction Pinion			
42	2229M	Woodruff Key			
43	63A32	3rd Reduction Shaft and Gear (Inc. Key No's. 40 - 41 & 42)			

### REPAIR PARTS

ROPER 18T TWIN-GARDEN TRACTOR-MODEL NO. T8328AR

#### FRONT AXLE



KEY NO.	PART NO.	DESCRIPTION	KEY NO.	PART NO.	DESCRIPTION
1	5000P	E Ring	26	6858M	Grease Fitting 1/4" - 28 Taper Thrd.
2	1328P	Washer 1/218 x 1 - 1/4 x 14 Ga.	27	785R	Tire Valve
3	1309H	Bearing	28	3638R	Front Wheel and Bearings
4	634B21	Front Axle w/Bearings (Inc. Key No. 2)	29	1522P	Washer 20/32 x 1 - 1/2 x 16 Ga.
5	3295P	Hex Bolt 5/8" - 11 x 5 Grade 8	30	8785H	Roll Pin 5/32 x 1
6	634A277	Splines Complete - R.H.	31	8785H	Wear Washer
7	9040H	Flanged Bearing	32	4831H	Electric Nut 3/8 - 16 UNF
8	7810H	Gripco Locknut 3/8 - 24 UNF	33	8783H	Dust Cap Outer
9	2515R	Handed Washer	34	3025P	Hex Bolt 5/16" - 18 x 1/2
10	7838R	Tie Rod and Joints (Inc. Key No. 15, 16, 17, 18 & 19)	35	3025P	*Hex Bolt 3/8 - 24 x 1
11	8855M	Grease Fitting	36	846P	*Hex Jam Nut 3/8 - 24 UNF
12	1506P	Washer 9/32 x 1/2 x 14 Ga.			
13	4761H	Washlock Nut 5/16 x 11 UNC			
14	634A278	Solidie Complete L.H.			
15	8515R	Tie Rod Joint (R.H. Thread)			
16	555P	*Hex Jam Nut 1/2" - 20 (R.H. Thread)			
17	634A819	Tie Rod and Nuts (Inc. Key No. 15 & 16)			
18	555P	*Hex Jam Nut 1/2" - 20 (L.H. Thread)			
19	8514R	Tie Rod Joint (L.H. Thread)			
20	634A813	Steering Gear Sector and Arm			
21	1552P	Washer 49/64 x 1 - 1/4 x 16 Ga.			
22	6842M	Grease Fitting			
23	7827R	Disc Lock and Joints			
24	634A808	Steering Bell Crank Weight			
25	3058R	Front Tire 18 x 8.50 - 8 T.S.			

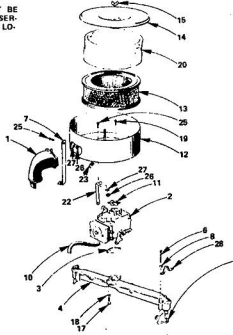
\*STANDARD HARDWARE-PURCHASE LOCALLY

### REPAIR PARTS

ROPER 18T TWIN-GARDEN TRACTOR-MODEL NO. T8328AR

#### FUEL SYSTEM GROUP

ALL ENGINE PARTS MUST BE PURCHASED THROUGH AND SERVICE PERFORMED BY YOUR LOCAL ONAN DEALER.



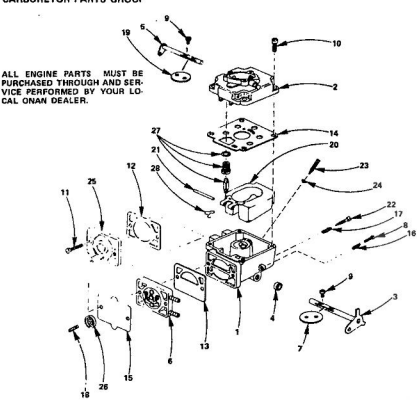
KEY NO.	PART NO.	DESCRIPTION	KEY NO.	PART NO.	DESCRIPTION
1	140-1169	Tube, Air Intake (Air Cleaner to Blower Housing)	15	885-0020	Nut, Wing - Air Cleaner (1/4" - 20)
2	142-0568	Carburetor, Gasoline (with Integral Fuel Pump)	17	800-0021	Screw, Hex Head Cap (1/4" - 20 x 1 - 3/8")
3	145-0438	*Gasket, Carburetor Mounting	18	850-0040	Washer, Spring Lock (1/4" - 20)
4	154-1460	Manifold, Intake	19	815-0463	Screw, Round Head with Nylon Seal (No. 10 - 32 x 5/8")
5	154-1744	*Gasket, Intake - Manifold	20	140-1259	Washer, Air Cleaner Element
6	800-0033	Screw, Hex Head Cap 5/16" - 18 x 2	21	140-1313	Bracket, Air Cleaner Support
7	140-1198	Support, Air Cleaner	22	518-0228	Clip, Bracket, Cable
8	850-0045	Washer, Spring Lock (5/16")	23	800-0003	Screw, Hex Head Cap (1/4" - 20 x 1/2")
9	800-0034	Screw, Hex Head Cap 5/16" - 18 x 2	24	882-0001	Nut, Hex Steel (1/4" - 20)
10	603-0140	Hose, Fuel Pump Vacuum	25	883-0013	Washer, Lock - ET (1/4")
11	140-1215	*Gasket, Air Cleaner Mtg.	26	403-1021	Bracket, Lifting
12	140-1213	Housing, Air Cleaner			
13	140-1216	Element, Air Cleaner			
14	140-1198	Cover, Air Cleaner			

1. See separate group for components.  
\* Included in Gasket Kit, page 29.

### REPAIR PARTS

ROPER 18T TWIN-GARDEN TRACTOR-MODEL NO. T8328AR

#### CARBURETOR PARTS GROUP



ALL ENGINE PARTS MUST BE PURCHASED THROUGH AND SERVICE PERFORMED BY YOUR LOCAL ONAN DEALER.

KEY NO.	PART NO.	DESCRIPTION	KEY NO.	PART NO.	DESCRIPTION
1	142-0568	Carburetor Assembly, Complete	17	142-0282	*Spring, Idle Needle
2	142-0574	Body Assembly, Lower	18	142-0546	*Spring, Pump Diaphragm
3	142-0573	Steve Assembly	19	142-0546	Float, Choke
4	142-0534	*Shaft Assembly, Throttle	20	142-0547	Float and Lever Assembly
5	142-0525	Packing, Shaft	21	142-0548	*Shaft, Float Lever
6	142-0535	Shaft Assembly, Choke	22	142-0016	*Needle, Idle
7	142-0537	*Valve Plate Assembly	23	142-0549	Needle Assembly, Power
8	142-0538	Flt, Throttle	24	142-0550	*Gasket, "O" Ring
9	142-0584	*Screw, Flt Mounting	25	142-0551	Cover, Pump
10	142-0539	Screw, Bowl Cover Mounting	26	142-0552	*Flt, Pump Spring
11	142-0540	*Valve Plate Assembly	27	142-0553	*Valve Assembly, Float
12	142-0541	*Gasket, Flt to Diaphragm	28	142-0554	Clp, Float Valve
13	142-0542	*Gasket, Flt to Base	29	142-0571	*Gasket Set (Includes Parts Marked T)
14	142-0572	*Gasket, Steve Assembly to Base	30	142-0570	Repair Kit (Includes Parts Marked T)
15	142-0555	*Diaphragm, Pump			
16	142-0544	Spring, Throttle Stop Screw			

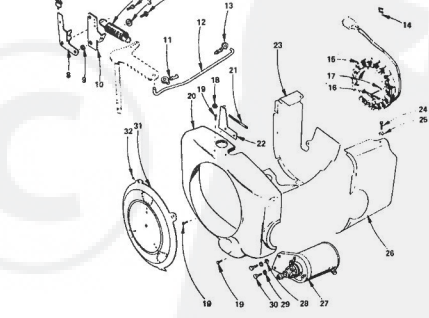
T. Included in 142-0571 Gasket Set  
\* Included in 142-0570 Repair Kit

### REPAIR PARTS

ROPER 18T TWIN-GARDEN TRACTOR-MODEL NO. T8328AR

#### GOVERNOR, STARTER CHARGING ALTERNATOR AND BLOWER HOUSING GROUP

ALL ENGINE PARTS MUST BE PURCHASED THROUGH AND SERVICE PERFORMED BY YOUR LOCAL ONAN DEALER.



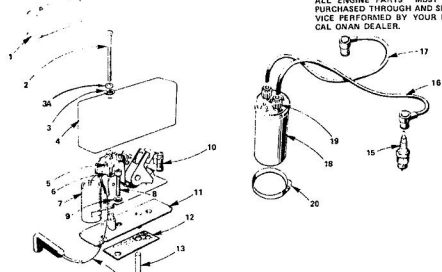
KEY NO.	PART NO.	DESCRIPTION	KEY NO.	PART NO.	DESCRIPTION
1	818-0178	Clp, Throttle Cable	19	815-0201	Screw, Hex Head Cap (1/4" - 20 x 7/16")
2	525-0214	Flat Washer (1 7/8 I.D. x 1/2 O.D. x 1/16 Thick)	20	134-3401	Housing, Blower
3	815-0436	Screw, Hex Cap - Flange Locking (1/4" - 20 x 1/2)	21	150-1418	Shield, Governor
4	150-1214	Spring, Governor	22	150-1433	Bracket, Governor Control
5	150-1343	Bracket, Governor Mounting	23	134-2885	Housing, Cylinder Air - Left
6	150-1269	Bushing Governor Control Arm, Governor Control	24	815-0290	Screw, Hex Head Cap (1/4" - 20 x 5/8")
7	150-1519	Clp, Governor Control Rod to Governor Arm	25	526-0021	Washer, Flat - Steel (1/2" x 1/2" I.D. x 3/4" O.D. x 1/16" Thick)
8	870-0278	Rod, Governor Control Rod to Governor Arm	26	134-3400	Housing, Cylinder Air - Right
9	150-1350	Rod, Governor Control	27	191-0933	Starter, 12 Volt (For Components see separate group)
10	515-0004	Clp, Governor Control Rod to Carburetor	28	526-0113	Washer, Flat - Steel (1/2" x 1/2" I.D. x 3/4" O.D. x 1/16" Thick)
11	167-0188	Clp, Alternator Lead Support	29	850-0045	Washer, Spring Lock (5/16")
12	191-1102	Stator, Charging Alternator	30	800-0078	Screw, Hex Head Cap (5/16" - 18 x 1")
13	815-0108	Screw Round Head - Steel No. 10 - 32 x 1 - 1/2"	31	134-3213	Guard, Blower Housing
14	870-0131	Nut, Hex No. 10 - 32	32	815-0278	Screw, Int. Hex Head w/ET (No. 14 x 1/2")

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### REPAIR PARTS

ROPER 18T TWIN-GARDEN TRACTOR-MODEL NO. T8328AR  
ONAN ENGINE-MODEL NO. B48M-GAO18/3417A

#### IGNITION GROUP



ALL ENGINE PARTS MUST BE PURCHASED THROUGH AND SERVICE PERFORMED BY YOUR LOCAL ONAN DEALER.

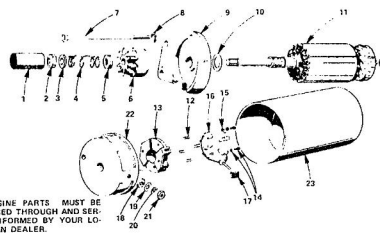
KEY NO.	PART NO.	DESCRIPTION
1	160-1210	Box Assembly, Breaker (Includes Parts Marked *)
2	812-0108	1" Screw, Machine - Round Head (No. 10 - 16 x 1 - 3/2")
3	526-0008	1" Washer, Flat (1.304" I.D. x 7/16" O.D. x 1/20" Thick)
3A	809-0055	1" Retainer, "O" Ring
4	160-1232	"Cover, Breaker Box
5	815-0358	"Screw, Tuning - Hex Head (No. 8 - 32 x 5/16")
6	850-0025	"Washer, Lock - Spring (No. 8)
7	312-0186	"Condenser, Ignition
8	802-0034	"Screw, Cap - Socket Head (1/4 - 20 x 3/4")
9	850-0038	"Washer, Lock - Spring - High Collar (1/4")
10	160-1183	"Point Assembly, Breaker
11	160-1219	"Base, Breaker Box
12	160-1150	"Gasket, Breaker Box
13	165-1151	"Plunger, Breaker Point Assembly
14	336-2132	Lead, Breaker Points to Coil
15	101-0237	Plug, Spark
16	101-1696	Cable, Spark Plug (1 1/2")
17	101-1586	Cable, Spark Plug (1 1/8")
18	166-0535	Coil, Ignition
19	165-0504	Nut, Coil Cable (Part of 168-0535 Coil)
20	800-0311	Clamp, Coil Mounting

\*PARTS INCLUDED IN 160-1210 BREAKER BOX ASSEMBLY  
\*INCLUDED IN GASKET KIT 168-0130.  
\*INCLUDED IN 160-1232 COVER

### REPAIR PARTS

ROPER 18T TWIN-GARDEN TRACTOR-MODEL NO. T8328AR  
ONAN ENGINE-MODEL NO. B48M-GAO18/3417A

#### STARTER PARTS GROUP



ALL ENGINE PARTS MUST BE PURCHASED THROUGH AND SERVICE PERFORMED BY YOUR LOCAL ONAN DEALER.

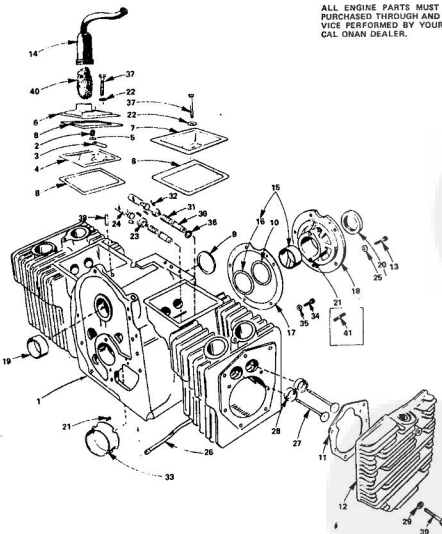
KEY NO.	PART NO.	DESCRIPTION
1	191-0933	Starter, 12 Volt (Complete)
2	191-1834	Cover, Dust
3	191-1045	Nut, Stop
4	191-1046	Washer, Stop Nut
5	191-1035	Screw, Anti-dirt
6	191-1047	Switch, Dust Cover
7	191-1036	Drive Assembly
8	191-1048	Screw, Hex Cap
9	850-0040	Washer, Lock
10	191-1037	Cap, Assembly, Drive End
11	191-1038	Washer, Armature Thrust
12	191-1039	Armature
13	▲	1" Spring, Brush
14	▲	1" Brush Holder
15	▲	1" Screw and Lockwasher
16	▲	1" Brush, Ground
17	▲	1" Stud and Brush Assembly, Input
18	▲	1" Bushing, Insulation - Input Stud
19	▲	1" Washer, Insulation - Input Stud
20	▲	1" Washer, Flat - Input Stud
21	▲	1" Nut, Securing - Input Stud
22	191-1040	Cap, Assembly, Commutator (Includes Parts Marked *)
23	191-1041	Repair Kit, Brush, Spring and Stud (Includes Parts Marked *)

▲ - Included in the 191-1040 Cap Assembly  
\* - Included in the 191-1041 Brush, Spring and Stud Kit.  
▲ - Not Sold Separately

### REPAIR PARTS

ROPER 18T TWIN-GARDEN TRACTOR-MODEL NO. T8328AR  
ONAN ENGINE-MODEL NO. B48M-GAO18/3417A

#### CYLINDER BLOCK GROUP



ALL ENGINE PARTS MUST BE PURCHASED THROUGH AND SERVICE PERFORMED BY YOUR LOCAL ONAN DEALER.

### REPAIR PARTS

ROPER 18T TWIN-GARDEN TRACTOR-MODEL NO. T8328AR  
ONAN ENGINE-MODEL NO. B48M-GAO18/3417A

#### CYLINDER BLOCK GROUP

KEY NO.	PART NO.	DESCRIPTION	KEY NO.	PART NO.	DESCRIPTION
1	110-2621	Block Assembly, Cylinder (Includes Parts Marked I)	28		INSERT, VALVE SEAT EXHAUST
2	123-1174	Spring, Breather Valve	110-1824	IS Standard	
3	123-1175	Valve, Breather	110-1824-02	.002" Oversize	
4	123-1173	Ball, Breather	110-1824-05	.005" Oversize	
5	526-0018	Washer, Flat - Steel (17/64" I.D. x 5/8" O.D. x 1/16" Thick)	110-1824-10	.010" Oversize	
6	110-2274	Cover, Valve Compartment (L.H.)	110-1824-25	.025" Oversize	
7	110-1879	Cover, Valve Compartment (R.H.)	110-0137	IS Standard	INTAKE
8	110-1921	gasket, Valve Cover	110-0197-02	.002" Oversize	
9	517-0048	Plug, Extension - Camshaft	110-0197-05	.005" Oversize	
10	104-0776	Thin, Rear Bearing Plate (.005")	110-0197-10	.010" Oversize	
11	110-2287	gasket, Cylinder Head	110-0197-25	.025" Oversize	
12		HEAD, CYLINDER	29	526-0122	Washer, Flat - Steel (17/32" I.D. x 23/32" O.D. x 1/16" Gauge)
	110-2564	Right Side (No. 2 Cylinder)	30	110-1867	Spring, Valve
	800-2563	Left Side (No. 1 Cylinder)	31	110-0539	Spring, Valve
13	800-0051	Screw, Hex Head Cap - Steel (3/8 - 16 x 1 1/4")	32	110-0639	Lock, Valve and Spring Retainer
14	123-1277	Tube, Breather	33		BEARING, CRANKSHAFT - FRONT (FLANGED)
15		BEARING, CRANKSHAFT - REAR (INCLUDES THRUST WASHER)	101-0432	IS Standard	
	101-0450	IS Standard	101-0432-02	.002" Oversize	
	101-0450-02	.002" Oversize	101-0432-10	.010" Oversize	
	101-0450-10	.010" Oversize	101-0432-20	.020" Oversize	
	101-0450-20	.020" Oversize	101-0432-30	.030" Oversize	
	101-0450-30	.030" Oversize	34	800-0048	Screw, Hex Head Cap (3/8 - 16 x 3/4") - Cylinder Block Wet Hole
16	104-0526	1" Washer, Crankshaft Bearing Thrust	35	526-0066	Washer, Flat - Copper (25/64" I.D. x 9/16" O.D. x 1/16" O.I.)
17	101-0415	1" Gasket, Bearing Plate	36	110-0068	1" Gasket, Valve Guide (Intake)
18	101-0426	Plate, Bearing (Excludes Bearings)	37	800-0010	Screw, Hex Head Cap (1/4 - 20 x 1 - 3/4")
19	101-0405	1" Bearing, Camshaft (Position)	38	149-1299	Tube, Fuel Pump Vacuum
20	609-0011	1" Seal, Bearing Plate	39	800-0541	5/16 - 18 x 1 5/8" SCREW, HEX HEAD CAP
21	516-0012	1" Plug, Main Bearing Stop	40	123-0866	Filter, Breather Tube
22	526-0053	Washer, Flat - Copper (17/64" I.D. x 7/16" O.D. x 1/32" Thick)	41	520-0820	Stud, Cylinder Block Wet Hole (Lower)
23	110-0893	Standard			
24	115-0006	Standard			
25	115-0006-09	.005" Oversize			
26	800-0050	1" Washer, Lock (3/8")			
27	120-0135	1" Tube, Crankcase Oil			
		VALVE			
		INTAKE			
		EXHAUST			

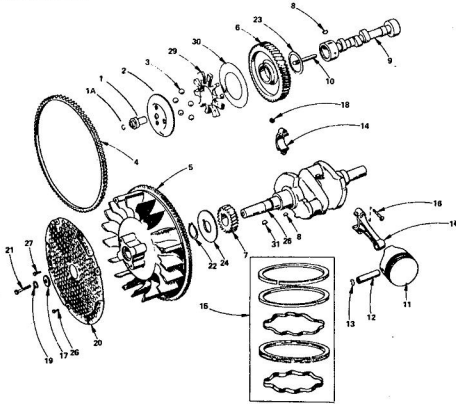
I - Included in 110-2287 Cylinder Block Assembly  
\* - Replacement From Flange Bearing replaces unflanged bearing and thrust washer  
x - Included in Gasket Kit 168-0130

### REPAIR PARTS

ROPER 18T TWIN-GARDEN TRACTOR-MODEL NO. T832BAR  
ONAN ENGINE-MODEL NO. B48M-GAO18/3417A

CRANKSHAFT, FLYWHEEL, CAMSHAFT  
AND PISTON GROUP

ALL ENGINE PARTS MUST BE  
PURCHASED THROUGH AND SER-  
VICE PERFORMED BY YOUR LO-  
CAL ONAN DEALER.



### REPAIR PARTS

ROPER 18T TWIN-GARDEN TRACTOR-MODEL NO. T832BAR  
ONAN ENGINE-MODEL NO. B48M-GAO18/3417A

CRANKSHAFT, FLYWHEEL, CAMSHAFT  
AND PISTON GROUP

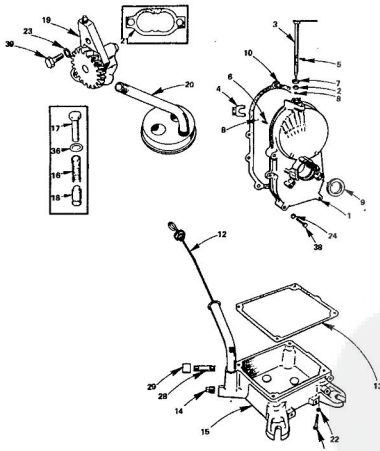
KEY NO.	PART NO.	DESCRIPTION
1	150 1510	Hub
1A	150 0028	Ring, Camshaft Center Pin
2	150 1520	Cup, Governor
3	510 0915	Ball, Fly - Governor
4	104 0779	Gear, Ring - Flywheel
5	134 2096	Flywheel (Includes Ring Gear and Magnet Ring)
6	106 0332	Gear, Camshaft (Includes Flyball Spacer and Plate)
7	104 0023	Gear, Crankshaft
8	515 0001	Key (1/2" Diameter x 1/8")
9	105 0402	Camshaft (Includes Center Pin)
10	150 0075	Pin, Camshaft Center
11		PISTON AND PIN (INCLUDES RE-TAINING RINGS)
	112 0151	Standard
	112 0151-05	005" Overize
	112 0151-10	010" Overize
	112 0151-20	020" Overize
	112 0151-30	030" Overize
	112 0151-40	040" Overize
12	112 0122	Pin, Piston
13	518 0311	Ring, Piston Pin Retaining
14		ROD ASSEMBLY, CONNECTING
	114 0267	Standard
	114 0267-10	010" Overize
	114 0267-20	020" Overize
	114 0267-30	030" Overize
15		RING SET, PISTON
	113 0189	Standard
	113 0189-05	005" Overize
	113 0189-10	010" Overize
	113 0189-20	020" Overize
	113 0189-30	030" Overize
	113 0189-40	040" Overize
16	114 0240	Bolt, Special - Connecting Rod
17	525 0017	Washer, Flat Steel (10/32" I.D. x 1-1/4" O.D. x 1/4" Thick)
18	870 0302	Nut, Locking (5/16 - 24)
19	850 0055	Washer, Spring Lock (17/16")
20	134 3008	Guard, Flywheel
21	104 0170	Screw, Hex Head Cap (17/16 - 14 x 4")
22	518 0014	Ring, Retaining - Crankshaft Gear Washer
23	105 0004	Washer, Camshaft Gear Thrust
24	104 0042	Washer, Crankshaft Gear Retainer
25	104 0986	Crankshaft
26	815 0002	Machine Screw, Truss Head
27	821 0014	Screw, Hex Head Cap, Locking (5/16 - 18 x 1/2")
28	150 1257	Spacer, Governor Flywheel
29	150 0077	Plate, Governor Flyball
31	515 0027	Key, Kit

### REPAIR PARTS

ROPER 18T TWIN-GARDEN TRACTOR-MODEL NO. T832BAR  
ONAN ENGINE-MODEL NO. B48M-GAO18/3417A

GEAR COVER, OIL BASE AND  
OIL PUMP GROUP

ALL ENGINE PARTS MUST BE  
PURCHASED THROUGH AND SER-  
VICE PERFORMED BY YOUR LO-  
CAL ONAN DEALER.



### REPAIR PARTS

ROPER 18T TWIN-GARDEN TRACTOR-MODEL NO. T832BAR  
ONAN ENGINE-MODEL NO. B48M-GAO18/3417A

GEAR COVER, OIL BASE  
AND OIL PUMP GROUP

KEY NO.	PART NO.	DESCRIPTION
1	103 0493	Cover, Assembly, Gear (Includes Parts Max. 1/2")
2	510 0105	Bearing, Governor Shaft
3	150 1470	Shaft and Arm Assembly, Governor
4	150 1187	Yoke, Governor Shaft
5	815 0045	Screw, Yoke Retaining
6	516 0130	Pin, Governor Cup Stop
7	509 0009	Spool, Oil - Governor Shaft
8	510 0014	Ball, Bearing - Governor Shaft
9	309 0040	* Seal, Cover Cover
10	103 0405	* Gasket, Gear Cover
12	123 1292	Cap and Indicator, Oil Fill
13	103 0033	Gasket, Oil Base Mounting
14	505 0056	Plug, Oil Drain
15		BASE, OIL
	102 0741	For Engines With Extended Oil Drain
16	120 0140	Spring, Oil By-Pass Valve
17	801 0050	Screw, Hex Head Cap (3/8 - 24 x 1") - Oil By-Pass Valve
18	120 0398	Valve, Oil By-Pass
19	120 0481	Pump, Oil - Complete (NOTE: Internal parts not sold separately)
20	120 0713	Intake, Oil Pump (Includes: Cup, Screen and Pin)
21	120 0161	Gasket, Oil Pump
22	850 0050	Washer, Spring Lock (3/8")
23	850 0049	Washer, Spring Lock (1/4")
24	526 0056	Washer, Flat - Copper (21/64" I.D. x 9/16" O.D. x 1/16" Thick)
28	505 0178	Nipple, Pipe - Oil Drain (1/2 x 3/4")
29	505 0158	Cap, Pipe (1/2")
36	526 0056	Washer, Flat - Copper (25/64" I.D. x 9/16" O.D. x 1/16" Thick) - By-Pass Valve
37	800 0056	Screw, Hex Head Cap (3/8 - 16 x 2 - 1/2")
38	800 0032	Screw, Hex Head Cap (5/16 - 18 x 1 - 3/4") - Gear Cover Mounting
38	800 0545	Screw, Hex Head Cap (5/16 - 18 x 2 - 3/4") - Gear Cover Mounting
39	800 0007	Screw, Hex Head Cap (1/4 - 20 x 1")

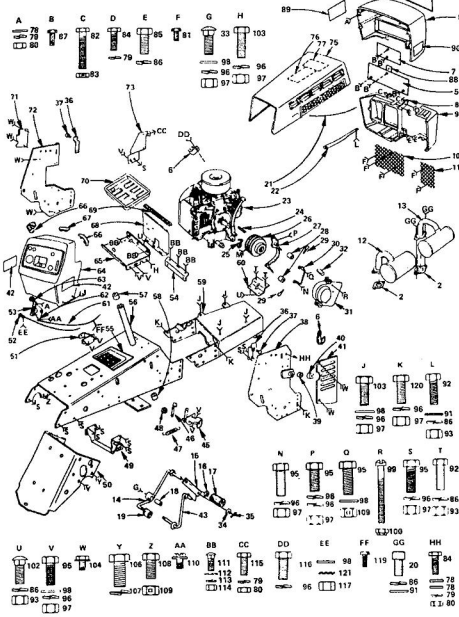
\* Included in Gear Cover Assembly.  
\* Included in Gasket Kit, page 29.



**REPAIR PARTS**

ROPER 18T TWIN-GARDEN TRACTOR-MODEL NO. T3282BR

MAIN FRAME, DASH AND GRILL



**REPAIR PARTS**

ROPER 18T TWIN-GARDEN TRACTOR-MODEL NO. T3282BR

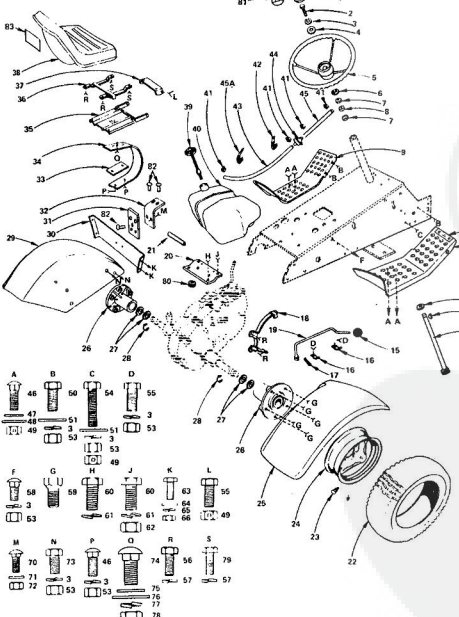
MAIN FRAME, DASH AND GRILL

KEY NO.	PART NO.	DESCRIPTION	KEY NO.	PART NO.	DESCRIPTION
1	8112	Grill - Upper	66	1007J	Battery Heat Shield
2	818J	Gasket - Exhaust Manifold	69	7814H	Hood Seat
3	845J	Decal - Grill	70	8055R	Battery Tray
5	2911	Grill - Panel - Lower	71	86J	Cover - L.H.
6	7751R	Wire-Clip	72	113J	Bracket - Battery Support - L.H.
7	295J	Grill Panel - Upper	73	1181J	Bracket - Rectifier
8	7831R	Grill - Lower	75	63A4007	Hood Assy.
9	7831R	Grill - Side	75	8028R	Decal - Instruction
10	2874R	Grill Screen - L.H.	77	9881R	Decal - Wiring
11	2872R	Grill Screen - R.H.	78	1568P	"Washer 5/32 x 5/8 x 1/8 Gr.
12	105J	Muffler - Rear	79	1002P	"Lockwasher 1/4"
13	104J	Muffler - Front	80	500P	"Hex Nut 1/4 - 20 UNC
14	834A001	Pedal Weldment	81	5501P	"Phillips Pan Hd. Tho. Self Tap. 10 - 18 Hx Lo. Thrd. x 1/2 Blunt Point
15	89J		82	3267P	"Hex Bolt 1/4 - 20 x 1 - 1/2 Grade 5
16	92J	Push-On Nut	83	1605H	Locknut 1/4 - 20 UNC
17	93J	Rubber Pad	84	3003P	"Hex Bolt 1/4 - 20 x 3/4"
18	91J	Pivot Spacer	85	3010P	"Hex Bolt 5/16 - 18 x 3/4"
19	287J	Foot Pedal	86	1003P	"Lockwasher 5/16"
20	3266P	Sec. Hd. Cap Screw 5/16 - 18 x 3/4	87	5554P	"Phillips Pan Hd. Tho. Self Tap. 10 - 18 Hx Lo. Thrd. x 1/2 Blunt Point
21	8058R	Grill Cable	88	8788H	Mounting Clip
22	815J	Grill Brackets	89	1580J	Decal - Grill - L.H.
23	9485H	Engine, Onan 18 H.P.	90	1691J	Decal - Grill - R.H.
24	9396E	Sq. Key 1/4 x 2	91	1531P	"Washer 11/32 x 11/16 x 1/8 Gr.
25	8245R	Belt Retainer Finger	92	3011P	"Hex Bolt 5/16 - 18 x 1"
26	634A104	Engine Pulley w/Gat Screws	93	504P	"Hex Nut 5/16 - 18 UNC
27	634A222	Belt Guide Weldment	94	4540P	Hex Forged Socket Hd. Sct. Screw
28	8704M1	Spacer	95	3023P	Ct. B. 1/4 - 18 x 1/2 Nylock
29	4839A	Retainer Spring	95	1004P	"Lockwasher 3/8"
30	8011H	Belt Retainer	97	501P	"Hex Nut 3/8 - 18 UNC
31	634A650	Belt Guard Weldment	98	1507P	Washer 13/32 x 13/16 x 11 Gr.
32	8228H	Split Spacer	99	3164P	"Hex Nut 1/4 - 20 UNC
33	50P	Sq. Neck Carriage Bolt 3/8 - 16 x 2 - 1/4	100	247H	Head Locknut 1/4 - 20 UNC
34	1545P	Washer 17/32 x 1 x 1/8 Gr.	102	61P	"Sq. Neck Carriage Bolt - Short Shoulder 3/8 - 18 x 1 Gr. 5"
35	2566P	"Cotter Pin 1/8 x 1"	103	3025P	"Lockwasher 7/16"
36	634A900	Head Hatch	104	5501P	"Hex Washer Hd. Tho. Cutting Screw 1/4 - 20 x 1/2 Type 1"
37	8467R	Support Bumper	105	305P	"Sq. Neck Carriage Bolt - Short Shoulder 3/8 - 18 x 1 Gr. 5"
38	634A903	Battery Support Bracket (Inc. Key 39)	107	1001P	"Lockwasher 7/16"
39	7755R	Bearing	108	3021P	"Hex Bolt 3/8 - 18 x 3/4"
40	9006R	Retainer	109	8394H	Locknut 3/8 - 18 UNC
41	7729R	Cover - R.H.	110	6065P	"Hex Sct. Hd. Machine Screw w/Dama Int. Tooth Lockwasher 10 - 22 x 1/4"
42	287J	Model Decal - Side of Dash	111	83P	"Sq. Neck Carriage Bolt 10 - 24 x 1/4"
43	634A902	Lower Weldment - L.H., Front	112	1528P	"Washer 7/32 x 7/16 x 1/8 Gr.
45	634A785	Hanger Weldment R.H. - Front	113	1006P	"Lockwasher No. 10"
46	7944R	Ball Tightener Arm	114	802P	"Hex Nut 1/4 - 20 UNC"
47	7945R	Return Spring	115	3114P	"Hex Bolt 1/4 - 20 x 1/2"
48	8101H	Locknut 3/8 - 24 UNF	116	3222P	"Hex Nut 3/8 - 18 x 7/8"
49	634A414	Hanger Weldment - Rear	117	616P	"Hex Nut 3/8 - 24 UNF"
50	634A787	Drawer and Weldnuts	119	5662P	"Ottos Pan Hd. Self Tap. Screw No. 8 x 3/4 Type A9"
51	634A326	Hanger Weldment - L.H., Front	120	3025P	"Hex Bolt 3/8 - 16 x 1 - 1/4 Gr. 5 Int. Tooth Lockwasher - 3/8"
52	7931R	Choke Control			
53	1518J	Throttle Control (Inc. Key 61, 62 & 63)			
54	87J	Adaptor Bar			
55	1555J	Decal (Bolt Pattern)			
56	634A888	Chassis Ass'y. (Inc. Key 67 & 68)			
57	6488R	Bearing			
58	4768J	Bearing			
59	634A006	Engine Mount Ass'y.			
60	88J	1402Z			
61	9003R	Throttle Wire & Casing			
62	634A893	Clamp			
63	1550J	Throttle Control Lever			
64	634A893	Dashboard (Inc. Key No's. 66 and 67)			
65	106J	Battery Support			
66	1981R	Clip - Dashboard			
67	8511R	Clip - Dashboard, Center			

**REPAIR PARTS**

ROPER 18T TWIN-GARDEN TRACTOR-MODEL NO. T3282BR

STEERING AND FINAL DRIVE



**REPAIR PARTS**

ROPER 18T TWIN-GARDEN TRACTOR-MODEL NO. T3282BR

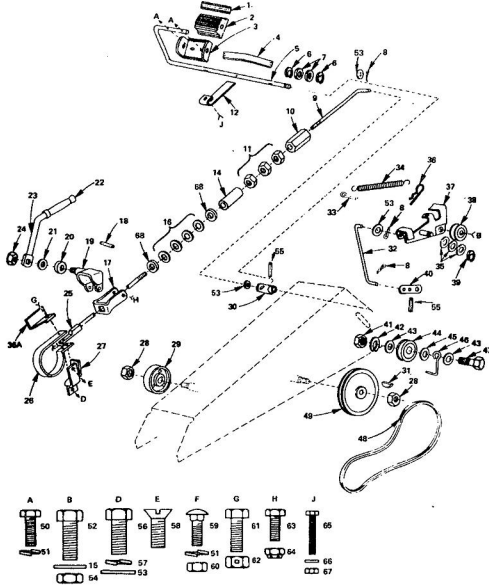
STEERING AND FINAL DRIVE

KEY NO.	PART NO.	DESCRIPTION	KEY NO.	PART NO.	DESCRIPTION
1	9219R	Steering Wheel Insert	46	61P	"Sq. Nt. Sct. Hd. Car. Bolt 3/8 - 16 x 1 Gr. 5"
2	3023P	"Hex Bolt 3/8 - 16 x 1"	47	1513P	"Washer 13/32 x 13/16 x 1/8 Gr.
3	1004P	"Lockwasher 3/8"	48	1519P	"Washer 15/32 x 1 x 1/2 Gr.
4	1505P	Washer 7/16 x 1 x 10 Gr.	49	5394H	Locknut 3/8 UNC
5	3044R	Steering Wheel	50	3025P	"Hex Bolt 3/8 - 16 x 1 - 1/4"
6	5003P	S-Ring	51	1557P	Washer 13/32 x 13/16 x 11 Gr.
7	9007H	Cap	53	501P	"Hex Nut 3/8 - 16 UNC"
8	5049H	Rubber Bushing	54	3027P	"Hex Bolt 3/8 - 16 x 1/2"
9	9903R	Foot Rest - L.H.	55	3022P	"Hex Bolt 3/8 - 16 x 7/8"
10	8000R	Decal (Attach. Clutch)	56	310P	"Hex Bolt 5/16 - 18 x 3/4"
11	9909R	Foot Rest - R.H.	57	1003P	"Lockwasher 5/16"
12	1553P	Washer 5/8 x 1 - 1/4 x 18 Gr.	58	19P	"Sq. Neck Carriage Bolt 3/8 - 16 x 3/4"
13	8058M1	Wardell Key 2 1/8 x 5/8	59	1304H	Hub Bolt
14	634A526	Steering Shaft and Pinion	60	3004P	"Hex Bolt 7/16 - 14 x 1"
15	6364H	Control Knob	61	1001P	"Lockwasher 7/16"
16	6442H	Shift Rod Bracket	62	500P	"Hex Nut 7/16 - 14 UNC"
17	2511P	Cotter Pin 3/16 x 1	63	3003P	"Hex Nut 1/4 - 20 x 3/4"
18	634A22A	Ball Guide	64	1508P	"Washer 9/32 x 5/8 x 18 Gr.
19	6471H	Range Bolt - Rod	65	1002P	"Lockwasher 1/4"
20	9954R	Transmission Bracket	66	503P	"Hex Nut 1/4 - 20 UNC"
21	8078R	Seat Stop	70	6P	"Short Shoulder Sq. Neck Carriage Bolt 5/16 - 18 x 3/4"
22	4607R	Rear Tire 23 x 10.50 - 12	71	1533P	"Washer 11/32 x 11/16 x 1/8 Gr.
23	785R	Tire Valve	72	1685H	"Lock Nut 5/16 - 18 UNC"
24	3638R	Rear Wheel 12 x 7 JA	73	3021P	"Hex Bolt 3/8 - 16 x 3/4"
25	8428R	Fender - R.H.	74	52P	"Carriage Bolt 1/2 - 13 x 1 - 1/4 Gr. 5"
26	634A622	Wheel Hub - Rear	75	1578P	"Washer 3/4 x 1 - 1/8 x 11 Gr.
27	7552R	Axle Thrust Washer	76	1506P	"Stamer 17/32 x 1 - 1/2 x 11 Gr.
28	5845R	Retaining Ring	77	1009P	"Lockwasher 1/2"
29	8427R	Fender - L.H.	79	3166P	"Hex Bolt 5/16 - 18 x 7/8"
30	2666R	Bracket - Tail Light	78	9547H	Hubner Grommet
31	175J	Seat Stop Bracket	81	235J	Steering Wheel Decal
32	126J	Fuel Tank Retainer	82	124J	Rubber Bumper
33	8141H	Seat Spring Reinforcement	83	245J	Decal
34	7894H	Seat Spring	84	1823J	Warranty Fact Tag
35	634A716	Seat Plate Weldment	85	1814J	Owner's Manual
36	634A529	Seat Bracket Weldment			
37	1891R	Bracket - Seat Pivot			
38	9744R	Seat			
39	2253J	Fuel Gauge			
40	7885R	Fuel Tank			
41	6999R	Fuel Line Gauge			
42	2751R	Clip - Fuel Line			
43	7831R	Fuel Line (Long)			
44	296J	In-Line Filter			
45	7823R	Fuel Line (Short)			
46A	9207H	Clip - Fuel Line			

**REPAIR PARTS**

ROPER 18T TWIN-GARDEN TRACTOR-MODEL NO. T8328BR

**BRAKE AND CLUTCH**



**REPAIR PARTS**

ROPER 18T TWIN-GARDEN TRACTOR-MODEL NO. T8328BR

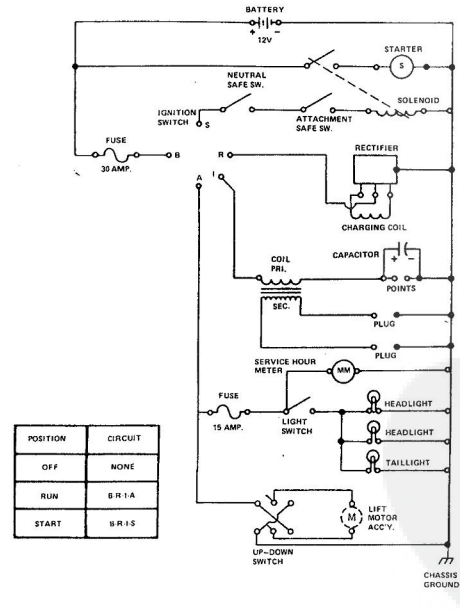
**BRAKE AND CLUTCH**

KEY NO.	PART NO.	DESCRIPTION	KEY NO.	PART NO.	DESCRIPTION
1	8999R	Insert Clutch Brake	37	634A75A	Idle Bracket Weldment
2	882R	Foot Pedal	38	8635H	Idle
3	8765H	Foot Pedal Bracket	39	5002P	E-Ring
4	9028H	Spring	40	634A986	Steering Arm Assembly
5	111J	Spring	41	580P	Hex Nut 7/16 - 14 UNC
6	5001P	E-Ring	42	1001P	Lockwasher 7/16
7	1527P	Washer 21/32 x 7/8 x 16 Ga.	43	1544P	Washer 15/32 x 15/16 x 16 Ga.
8	2505P	Cotter Pin 1/8 x 3/4	44	6635H	Flat Ider
9	2201R	Brake Rod - Front	45	1502P	Washer 15/32 x 15/16 x 11 Ga.
10	6417H	Lumbracke	46	6479H1	Ball Finger
11	501P	*Hex Nut 3/8 - 16 UNC	47	2262P	Hex Bolt 7/16 - 14 x 2 - 1/2
12	7922R	Safety Start Actuator	48	2622R	V-Bolt
14	2201R	Brake Rod - Front	49	6461H2	Pulley, Transmission
15	1557P	Washer 13/32 x 13/16 x 11 Ga.	50	3002P	Hex Bolt 1/4 - 20 x 3/4
16	7262R	Sprng Washer	51	1002P	*Lockwasher 1/4
17	9666R	Parking Brake Yoke	52	2022P	*Fin. Hex Bolt 3/8 - 24 x 1
18	175H	Roll Pin	53	1513P	Washer 15/32 x 13/16 x 18 Ga.
19	634A887	Lock Bracket Assembly	54	548P	*Hex Jam Nut 3/8 - 24 UNF
20	2221R	Parking Brake Spacer	55	5142H	Roll Pin
21	5050H	Sprng Washer	56	3022P	Hex Bolt 3/8 - 16 x 7/8
22	4319H	Handle Grip	57	1004P	*Lockwasher 3/8
23	634A341	Parking Lock Handle Assembly	58	3164P	Fin. Hex Machine Screw - Undercut 3/8 - 16 x 3/4
24	7810H	Grnpco Centerlock Nut 3/8 - 24 UNF	59	111P	Sq. Neck Carriage Bolt 1/4 - 20 x 5/8
25	634A985	Brake Band and Lining	60	502P	*Lockwasher 1/4 - 20 UNC
26	673A211	Lock Nut 1/2 - 20 UNC	61	3156P	Hex Bolt 5/16 - 18 x 7/8
28	634A168	Brake Bracket Assembly	62	1885H	Locknut 5/16 - 18 UNC
29	9204H	Lock Nut 1/2 - 20 UNC	63	3244P	Hex Bolt 1/4 - 28 x 5/8 Gr. 5
30	214J	Brake Drum	64	9071H	Headlock Nut 1/4 - 28 UNF
31	634A699	Brake Arm Assembly	65	3326P	Hex Hd. Mach. Screw 6 - 32 x 1
32	9858M1	Woodruff Key	66	1567P	Washer 5/32 x 3/8 x 20 Ga.
33	2514P	Cotter Pin 1/4 x 1	67	562P	Centerlock Nut 5/8 - 32 UNC
34	6486R	Churn Key	68	1602P	Washer 13/32 x 5/8 x 11 Ga.
35	1587P	*Washer 17/32 x 1 - 1/16 x 21 Ga.			
36	4839H	Retainer Spring			
36A	544J	Hose Shield			

**REPAIR PARTS**

ROPER 18T TWIN-GARDEN TRACTOR-MODEL NO. T8328BR

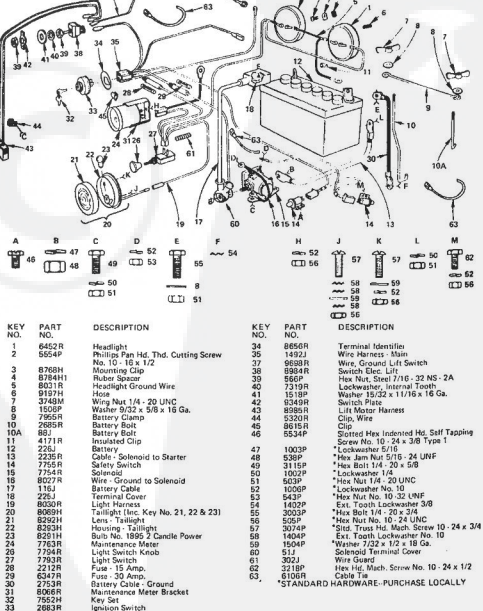
**SCHEMATIC DIAGRAM**



**REPAIR PARTS**

ROPER 18T TWIN-GARDEN TRACTOR-MODEL NO. T8328BR

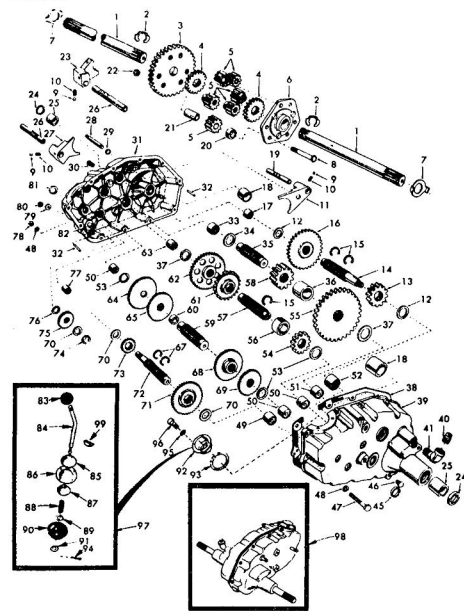
**ELECTRICAL**



### REPAIR PARTS

ROPER 18T TWIN-GARDEN TRACTOR-MODEL NO. T8328BR

#### TRANSAXLE



### REPAIR PARTS

ROPER 18T TWIN-GARDEN TRACTOR-MODEL NO. T8328BR

#### TRANSAXLE

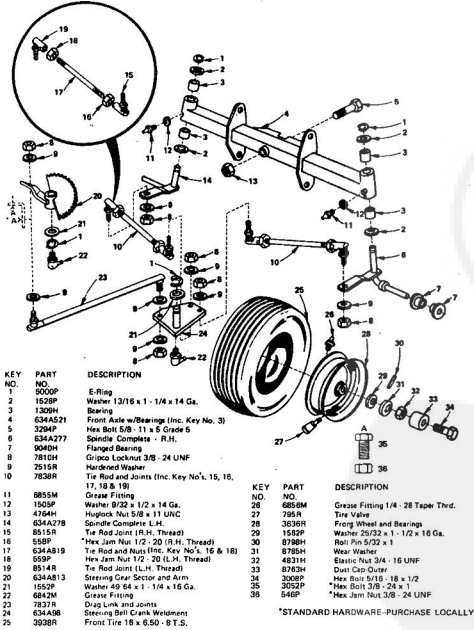
KEY NO.	PART NO.	DESCRIPTION	KEY NO.	PART NO.	DESCRIPTION
1	4197R	Axle Shaft	49	4895H	Needle Bearing
2	5869R	Retaining Ring	50	4222R	Needle Bearing
3	4199R	Final Drive Gear	51	1207H	Needle Bearing
4	4216R	Differential Gear	52	8119M	Needle Bearing
5	4216R	Differential Pinion	53	4220R	Thrust Bearing Race
6	4217R	Differential Carrier	54	4209R	3rd Reduction Pinion - Low
7	6264R	Axle Thrust Washer	55	4213R	4th Reduction Gear
8	3056P	Hex Bolt 3/8" - 24 UNF x 3 - 1/4 (17" Thread Length)	56	4442R	3rd Reduction Pinion Spacer
9	7392M	Steel Ball	57	4199R	2nd Reduction Gear Shaft
10	6272H	Spring Shift Fork Detent	58	6447R	Final Drive Pinion
11	6968R	Shift Fork - High - Low Range	59	4194R	1st Reduction Gear Shaft
12	6266H	Thrust Bearing Race	60	7328R	1st Reduction Shaft Spacer
13	4212R	4th Reduction Pinion	61	4208R	3rd Reduction Pinion - High
14	4198R	3rd Reduction Gear Shaft	62	4207R	2nd Reduction Gear
15	6276H	Snap Ring - Craxent Type	63	7385H	Needle Bearing
16	633A63	High - Low Range Gears	64	4203R	Low Speed Gear and 2nd Reduction Pinion Cluster
17	8118M	Needle Bearing	65	4204R	Reverse Gear
18	8740H1	Sintered Iron Bearing	67	4828H	Snap Ring - Craxent Type
19	6271H	Shift Fork Shaft, High - Low Range	68	4206R	Intermediate Speed Gear
20	4218R	Differential Pinion Spacer	69	4206R	High Speed Gear
21	6252H1	Differential Pinion Bushing	70	1202H	Thrust Bearing Race
22	7810H	Gilco Centerlock Hex 3/8" - 24 UNF	71	633A69	Intermediate and High Speed Cluster Pinions
23	4868R	Shift Fork - L.H.	72	4193R	Input Shaft
24	7393R	Oil Seal	73	4201R	Low Speed Pinion
25	8927R1	Sintered Iron Bearing	74	5001P	E-Ring
26	6216H	Shift Fork - R.H.	75	1153R	Reverse Idler Gear
27	6215H	Shift Fork - High - Low Range	76	7922H	Reverse Idler Thrust Washer
28	6269H	Oil Seal	77	5629H	Needle Bearing
29	5855H	Pressure Relief Valve	78	6047R	Hex Nut 5/16" - 18 UNC
30	633A65	Gearcase, Reverse Idler Shaft and Bearings - R.H. (Inc. Key No. 1, 17, 18, 25, 26, 50, 53, 76, 77 and 82)	79	1167R	Sealing Washer
31	633A65	Gearcase and Bearings - L.H. (Inc. Key No. 1, 17, 18, 25, 26, 50, 53, 76, 77 and 82)	80	641P	Oil Seal
32	6277H	Dowel Pin	81	6270H	Reverse Idler Shaft
33	4223R	Needle Bearing	82	7384H	Control Knob
34	7398H	Thrust Bearing Race	83	6354H	Gear Shift Lever - Bent
35	4198R	4th Reduction Gear Shaft	84	6324H	Gear Shift Cap
36	4200R	4th Reduction Gear Spacer	85	9013R	Gear Shift Ball Cover and Pin
37	7395H	Thrust Bearing Race	86	6324H	Ball Lever Guide Ball - Keyed
38	6275H	Gearcase Gasket	87	8729H1	Spring
39	633A64	Gearcase and Bearings - L.H. (Inc. Key No. 1, 17, 18, 25, 26, 50, 53, 76, 77 and 82)	88	4924H	Washer 3/16" x 1/8" x 11 GA
40	4002P	Pin Plug 1/2" - 14 N.P.T.	89	8105R	Shift Mechanism Shaft
41	4003P	Pin Plug 9/16" - 12 N.P.T.	90	7689R	Washer 5/16" x 1/8" x 11 GA
42	8211H	Oil Seal	91	8274H	Gear Shift Gear
43	4001P	Pin Plug 1/4" - 18 N.P.T.	94	2205P	Lockwasher 5/16"
44	3087P	*Hex Bolt 5/16" - 18 x 1 - 1/2 Grade 5	95	3159P	Lockwasher 5/16"
45	1007P	Lockwasher 5/16 Extra Heavy	96	633A62	Hex Bolt 5/16" - 18 UNC x 7/8"
			97	633A78	Transaxle Assembly Lens Brake Drum
			98	7835M	*Shift Lever
			99	7835M	Woodruff Key 1/8" x 1/2"

\*STANDARD HARDWARE-PURCHASE LOCALLY

### REPAIR PARTS

ROPER 18T TWIN-GARDEN TRACTOR-MODEL NO. T8328BR

#### FRONT AXLE

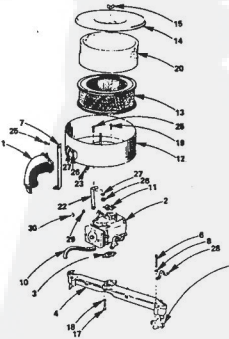


### REPAIR PARTS

ROPER 18T TWIN-GARDEN TRACTOR-MODEL NO. T8328BR  
ONAN ENGINE-MODEL NO. B49M-GAD18/5560A

#### FUEL SYSTEM GROUP

ALL PARTS MUST BE PURCHASED THROUGH AND SERVICE PERFORMED BY YOUR LOCAL ONAN DEALER.



KEY NO.	PART NO.	DESCRIPTION	KEY NO.	PART NO.	DESCRIPTION
1	140-1169	Tube, Air Intake (Air Cleaner to Blower Housing)	15	865-0020	Nut, Wing - Air Cleaner (1/4" - 20)
2	142-0568	Carbon, Carburetor Mounting	17	800-0023	Screw, Hex Head Cap (1/4" - 20 x 1-3/8")
3	145-0438	Fuel Pump	18	860-0040	Washer, Staking Lock (1/4")
4	154-1468	Manifold, Intake	19	815-0483	Screw, Round Head with Nylon Seal (No. 10 - 32 x 5/8")
5	150-1446	*Gasket, Intake - Manifold	20	140-1313	Washer, Air Cleaner Support (No. 10 - 32 x 5/8")
6	800-0033	Screw, Hex Head Cap 5/16" - 18 x 2	21	140-1313	Washer, Air Cleaner Support (No. 10 - 32 x 5/8")
7	800-0034	Screw, Hex Head Cap 5/16" - 18 x 2 - 1/4	22	518-0028	Clay, Bracket, Cable
8	140-1198	Support, Air Cleaner	23	800-0023	Screw, Hex Head Cap (1/4" - 20 x 1/2")
9	850-0045	Washer, Spring Lock (5/16")	24	800-0023	Nut, Hex (1/4" - 20)
10	503-0740	Hose, Fuel Pump Vacuum	25	853-0013	Bracket, Lifting
11	140-1215	*Gasket, Air Cleaner Mfg.	26	433-1480	Washer, Lock - IT (5/16")
12	140-1213	Housing, Air Cleaner	29	854-0275	Bracket, Lifting
13	140-1218	Blower, Air Cleaner	30	870-0275	Nut, Hex (7/16" - 14)
14	140-1168	Cover, Air Cleaner			

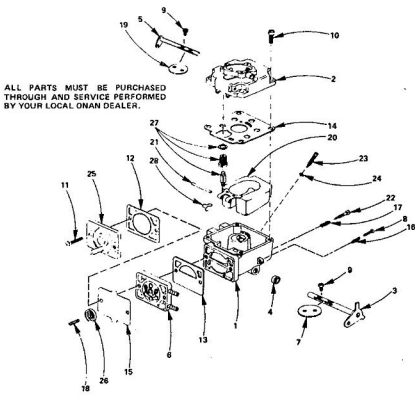
\* See repair manual for dimensions.  
\* Included in Gasket Kit, page 29.

### REPAIR PARTS

ROPER 18T TWIN-GARDEN TRACTOR-MODEL NO. T8328BR  
ONAN ENGINE-MODEL NO. B48M-GA018/3560A

#### CARBURETOR PARTS GROUP

ALL PARTS MUST BE PURCHASED THROUGH AND SERVICE PERFORMED BY YOUR LOCAL ONAN DEALER.



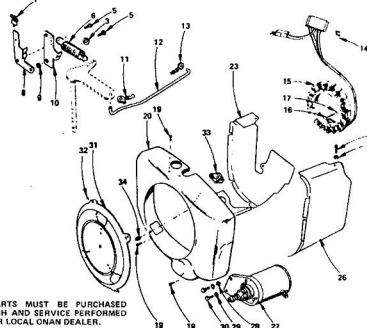
KEY NO.	PART NO.	DESCRIPTION	KEY NO.	PART NO.	DESCRIPTION
1	1420568	Carburetor Assembly, Complete	17	1420282	*Spring, Idle Needle
2	1420574	Body Assembly, Lower	18	1420546	*Spring, Pump Diaphragm
3	1420573	Steve Assembly	19	1420548	Fly, Choke
4	1420534	*Shaft Assembly, Throttle	20	1420547	Float and Lever Assembly
5	1420535	*Washing, Shaft	21	1420540	*Shaft, Float Lever
6	1420536	*Shaft Assembly, Choke	22	1420018	*Needle, Idle
7	1420537	*Valve Float Assembly	23	1420549	Needle Assembly, Power
8	1420064	Screw, Throttle Stop	24	1420550	*Gasket, "O" Ring
9	1420334	Screw, Fly Mounting	25	1420551	Cover, Pump
10	1420539	Screw, Bowl Cover Mounting	26	1420552	*Hose, Pump Spring
11	1420540	Screw, Pump Cover	27	1420553	*Valve Assembly, Float
12	1420541	*Gasket, Hose to Diaphragm	28	1420554	Clip, Float Valve
13	1420542	*Gasket, Plate to Base	1420571	*Gasket Set (Includes Parts Marked *)	
14	1420572	*Gasket, Saver Assembly to Base	1420570	Repair Kit (Includes Parts Marked *)	
15	1420555	*Diaphragm, Pump			
16	1420544	*Spring, Throttle Stop Screw			

### REPAIR PARTS

ROPER 18T TWIN-GARDEN TRACTOR-MODEL NO. T8328BR  
ONAN ENGINE-MODEL NO. B48M-GA018/3560A

#### GOVERNOR, STARTER, CHARGING ALTERNATOR AND BLOWER HOUSING GROUP

ALL PARTS MUST BE PURCHASED THROUGH AND SERVICE PERFORMED BY YOUR LOCAL ONAN DEALER.

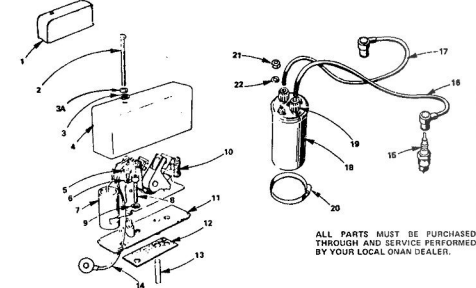


KEY NO.	PART NO.	DESCRIPTION	KEY NO.	PART NO.	DESCRIPTION
1	1530514	Clip, Throttle Cable	19	8150261	Screw, Hex Head Cap (1/4" - 20 x 7/16")
3	5550014	Flat Washer 1/2" I.D. x 1/2" x 1/16"	20	134-3749	Housing, Blower
5	8150438	Screw, Hex Cap - Flange Locking (1/4" - 20 x 1/2)	22	134-2889	Housing, Cylinder Air - Left
6	150-1214	Bracket, Governor Mounting	24	8150250	Screw, Hex Head Cap (1/4" - 20 x 3/4" O.D. x 1 1/16" Thread)
8	150-1725	Spring, Governor	25	5260021	Washer, Flat Steel (1 1/8" I.D. x 3/4" O.D. x 1 1/16" Thick)
9	150-1209	Bushing, Governor Control	26	134-3400	Housing, Cylinder Air - Right
10	150-1576	Arm, Governor Control	27	191-0933	Starter, 12 Volt (For Components see separate group)
11	870-0278	Clip, Governor Control Rod to Governor Arm	28	5260113	Washer, Flat Steel (1 1/32" I.D. x 1" O.D. x 3/32" Thick)
12	150-1350	Rod, Governor Control	29	850-0045	Washer, Spring Lock (5/16" x 5/16" 18 x 1")
13	818-0004	Clip, Governor Control Rod to Carburetor	30	800-0028	Screw, Hex Head Cap (5/16" 18 x 1")
14	167-0188	Clip, Alternator Lead Support	31	134-3213	Guard, Blower Housing (No. 14 x 1 1/2")
15	191-1216	Stator, Charging Alternator	32	815-0378	Screw, Int'l Hex Head w/ET (No. 14 x 1 1/2")
16	813-0143	Screw, Round Head - Steel No. 10 - 22 x 1 - 3/8"	33	191-1208	Regulator, Alternator (15 Amp)
17	850-0030	Washer, Lock (No. 10)	34	821-0010	Screw, Hex Hd. Cap (1/4" - 20 x 1/2)

### REPAIR PARTS

ROPER 18T TWIN-GARDEN TRACTOR-MODEL NO. T8328BR  
ONAN ENGINE-MODEL NO. B48M-GA018/3560A

#### IGNITION GROUP



ALL PARTS MUST BE PURCHASED THROUGH AND SERVICE PERFORMED BY YOUR LOCAL ONAN DEALER.

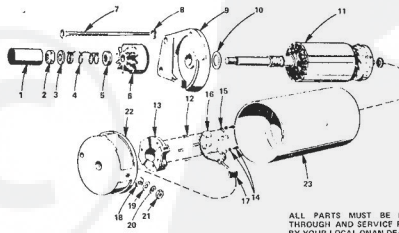
KEY NO.	PART NO.	DESCRIPTION
1	160-1210	Box Assembly, Breaker (Includes Parts Marked *)
2	812-0108	*Screw, Machine - Round Head (No. 14 x 1 - 1/2")
3	528-0008	*Washer, Flat (1 3/8" I.D. x 7/16" O.D. x 1/32" Thick)
3A	509-0065	*Retainer, "O" Ring
4	100-1232	*Cover, Breaker Box (Includes parts marked *)
5	815-0358	*Screw, Tapping - Hex Head (No. 8 - 32 x 5/16")
6	850-0025	*Washer, Lock - Spring (No. 8)
7	312-0189	*Condenser, Ignition
8	802-0034	*Screw, Cap - Socket Head (1/4" - 20 x 3/4")
9	850-0038	*Washer, Lock - Spring - High Collar (1/4")
10	160-1163	*Point Assembly, Breaker
11	160-1219	*Escr, Breaker Box
12	160-1150	*Gasket, Breaker Box
13	100-1151	*Plunger, Breaker Point Assembly
14	338-2378	Lead, Breaker Points to Coil Plug, Spark
15	162-0208	Plug, Spark
16	167-1595	Capacitor, Spark Plug (1 7/8")
17	102-1508	Capacitor, Spark Plug (1 1/2")
18	166-0536	Coil, Ignition
19	160-0804	Wind, Coil Cable (Part of 166-0536 Coil)
20	501-0311	Clamp, Coil Mounting
21	166-0554	Nut, Hex
22	800-2005	Washer, Lock

\*PARTS INCLUDED IN 160-1210 BREAKER BOX ASSEMBLY.  
\*INCLUDED IN GASKET KIT 168-0130.  
\*INCLUDED IN 100-1232 COVER

### REPAIR PARTS

ROPER 18T TWIN-GARDEN TRACTOR-MODEL NO. T8328BR  
ONAN ENGINE-MODEL NO. B48M-GA018/3560A

#### STARTER PARTS GROUP



ALL PARTS MUST BE PURCHASED THROUGH AND SERVICE PERFORMED BY YOUR LOCAL ONAN DEALER.

KEY NO.	PART NO.	DESCRIPTION
1	191-0933	Starter, 12 Volt (Complete)
2	191-1034	Cover, Gear
3	191-1045	Nut, Snap
3	191-1046	Washer, Snap Nut
4	191-1035	Spring, Armature
5	191-1047	Screw, Blind Cover
6	191-1036	Drive Assembly
7	191-1048	Screw, Hex Cap
8	850-0040	Washer, Lock
9	191-1037	Cap, Assembly, Gear End
10	191-1038	Washer, Armature Thread
11	191-1039	Armature
12		*Spring, Bleed
13		*Bushing, Hub
14		*Hex Nut - 1/4" x 1/2"
15		*1" Bush, Forward
16		*1" Stud and Bush, Reverse
17		*Bushing, Insulator, Gear End
18		*Washer, Insulator, Gear End
19		*Washer, Flat, Insulator
20		*Washer, Lock, Insulator
21		*Hex, Screwing, Insulator
22	191-1040	Cap Assembly, Commutator (Includes Parts Marked *)
23		*Housing, Gear Motor
191-1041		*Bumper, 1/4" Thick, Spring and Stud (Includes Parts Marked *)

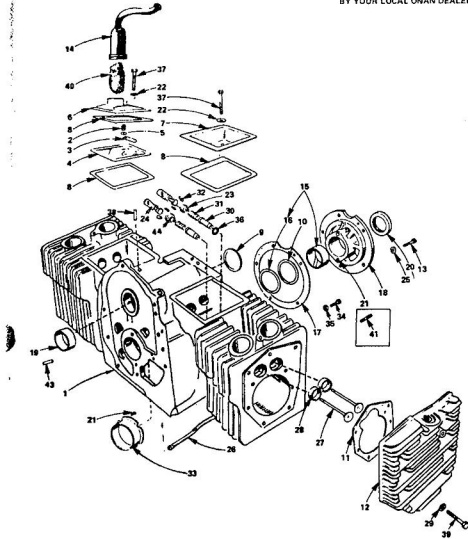
\* Included in the 191-1040 Cap Assembly.  
\* Included in the 191-1041 Housing, Gear Motor and Stud Kit.  
\* Not Sold Separately.

### REPAIR PARTS

ROPER 18T TWIN-GARDEN TRACTOR-MODEL NO. T8328BR  
ONAN ENGINE-MODEL NO. B48M-GA018/3560A

#### CYLINDER BLOCK GROUP

ALL PARTS MUST BE PURCHASED THROUGH AND SERVICE PERFORMED BY YOUR LOCAL ONAN DEALER.



### REPAIR PARTS

ROPER 18T TWIN-GARDEN TRACTOR-MODEL NO. T8328BR  
ONAN ENGINE-MODEL NO. B48M-GA018/3560A

#### CYLINDER BLOCK GROUP

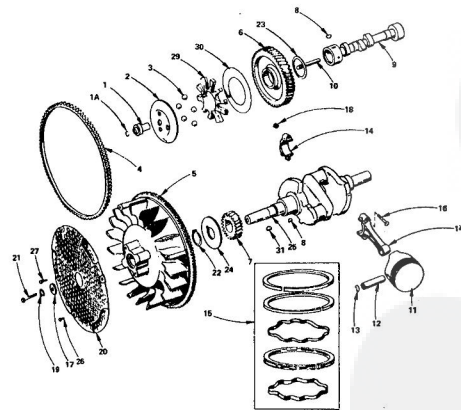
KEY NO.	PART NO.	DESCRIPTION	KEY NO.	PART NO.	DESCRIPTION
1	110 2500	Block Assembly, Cylinder (Includes Part Marked †)	28		INLET VALVE SEAT
2	123 1134	Spring, Breather Valve	110 1824		†Standard
3	123 1175	Valve, Breather	110 1824 02	002"	Oversize
4	123 1172	Ball, Breather	110 1824 05	005"	Oversize
5	526 001B	Washer, Flat, Steel (17/64" I.D. x 5/8" O.D. x 1/16" Thick)	110 1824 10	010"	Oversize
6	110 2274	Cover, Valve Compartment (L.H.)	110 1824 25	025"	Oversize
7	110 1879	Cover, Valve Compartment (R.H.)	110 0197		†Standard
8	110 1921	†Gasket, Valve Cover	110 0197 02	002"	Oversize
9	517 0048	Plug, Extension - Camshaft	110 0197 05	005"	Oversize
10	104 0775	15Hm. Rear Bearing Plate (1.005")	110 0197 10	010"	Oversize
11	110 0892	†Gasket, Cylinder Head	110 0197 25	025"	Oversize
12		HEAD, CYLINDER	29	256 0122	Washer, Flat, Steel (11/32" I.D. x 23/32" O.D. x 10 Gauge)
13	110 2564	Bolt, Set (No. 2 Cylinder)	30	110 1807	†Washer, Valve
13	800 2563	Left Side (No. 1 Cylinder)	31	110 0530	Spring, Valve
13	800 0251	†Screw, Hex Head Cap-Steel (3/8 - 16 x 1 - 1/4")	32	110 0639	Lock, Valve and Spring Retainer
14	123 1277	Tube, Breather	33		BEARING, CRANKSHAFT - FRONT (FLANGES)
15		BEARING, CRANKSHAFT - REAR (INCLUDES THRUST WASHER)	101 0432		†Standard
	101 0450	Standard	101 0432 02	002"	Undersize
	101 0450 02	002" Undersize	101 0432 10	010"	Undersize
	101 0450 10	010" Undersize	101 0432 20	020"	Undersize
	101 0450 20	020" Undersize	101 0432 30	030"	Undersize
	101 0450 30	030" Undersize	800 0046		Screw, Hex Head Cap (3/8 - 16 x 2 1/4")
16	104 0575	†Washer, Crankshaft Bearing Thrust	34	526 0066	Washer, Flat, Copper (25/64" I.D. x 9/16" O.D. x 1/16" O.D.)
17	101 0415	†Gasket, Bearing Plate	35	110 0058	†Gasket, Valve Guide (Inlet)
18	101 0439	†Plate, Bearing (Excludes Bearings)	37	800 0010	Screw, Hex Head Cap (1/4 - 20 x 1 - 3/4")
19	101 0405	†Bearing, Camshaft (Pressure)	29	149 1299	†Tube, Fuel Pump Vacuum
20	509 0541	†Seal, Bearing Plate	29	800 0540	SCREW, HEX HEAD CAP (1/8 - 18 x 1 - 5/8")
21	516 0072	Pin, Main Bearing Stop	40	800 0541	SCREW, HEX HEAD CAP (1/8 - 18 x 2")
22	526 0053	Washer, Flat - Copper (17/64" I.D. x 7/16" O.D. x 1/32" Thick)	40	123 8855	Filter, Breather Fuel
23	110 0893	Retainer, Valve - INTAKE	41	520 0820	Stud, Cylinder Block Wet Hole (Lower)
24	115 0006	Standard	43	516 0141	Pin, Dowel (Gear Cover Align)
	115 0006 02	002" Oversize	44	110 0804	Rotopop - Exhaust Valve
	115 0006 05	005" Oversize			
25	800 0950	†Washer, Lock (3/8")			
26	120 0735	†Tube, Crankcase Oil			
27	110 1808	Intake			
	110 1809	Exhaust			

### REPAIR PARTS

ROPER 18T TWIN-GARDEN TRACTOR-MODEL NO. T8328BR  
ONAN ENGINE-MODEL NO. B48M-GA018/3560A

#### CRANKSHAFT, FLYWHEEL, CAMSHAFT AND PISTON GROUP

ALL PARTS MUST BE PURCHASED THROUGH AND SERVICE PERFORMED BY YOUR LOCAL ONAN DEALER.



### REPAIR PARTS

ROPER 18T TWIN-GARDEN TRACTOR-MODEL NO. T8328BR  
ONAN ENGINE-MODEL NO. B48M-GA018/3560A

#### CRANKSHAFT, FLYWHEEL, CAMSHAFT AND PISTON GROUP

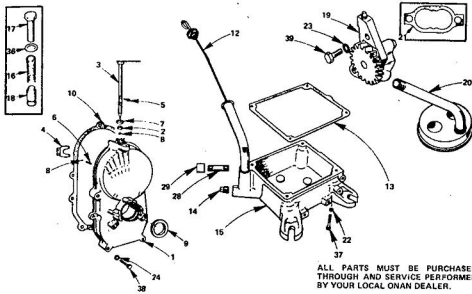
KEY NO.	PART NO.	DESCRIPTION
1	150 1518	Hub
1A	150 0078	Ring, Camshaft Center Pin
2	150 1520	Cap, Governor
3	510 0015	Ball, Fly - Governor
4	104 0779	Gear, Ring - Flywheel
5	134 3494	Flywheel (Includes Ring Gear and Magnet Ring)
6	105 0232	Gear, Camshaft (Includes Flyball Sprocket and Pin)
7	104 0032	Gear, Crankshaft
8	515 0001	Key (1/2" Diameter x 1 1/8")
9	105 0402	Camshaft (Includes Center Pin)
10	150 0075	Pin, Camshaft Center
11		PISTON AND PIN (INCLUDES RETAINING RINGS)
	112 0151	Standard
	112 0151 05	005" Oversize
	112 0151 10	010" Oversize
	112 0151 20	020" Oversize
	112 0151 30	030" Oversize
	112 0151 40	040" Oversize
12	112 0122	Pin, Piston
13	518 0311	Ring, Piston Pin Retaining
14		ROD ASSEMBLY, CONNECTING
	114 0257	Standard
	114 0257 10	010" Oversize
	114 0257 20	020" Oversize
	114 0257 30	030" Oversize
15		RING SET, PISTON
	113 0189	Standard
	113 0189 05	005" Oversize
	113 0189 10	010" Oversize
	113 0189 20	020" Oversize
	113 0189 30	030" Oversize
	113 0189 40	040" Oversize
16	114 0240	Bolt, Special - Connecting Rod
17	526 0017	Washer, Flat, Steel (15/32" I.D. x 1 - 1/4" O.D. x 1/4" Thick)
18	870 0302	Nut, Locking (5/16 - 24)
19	890 0955	Washer, Spring Lock (7/16")
20	134 3508	Guard, Flywheel
21	104 0170	Screw, Hex Head Cap (7/16 - 14 x 4")
22	518 0014	Ring, Retaining - Crankshaft Gear
23	105 0004	Washer, Crankshaft Gear Thrust
24	104 0063	Washer, Crankshaft Gear Retainer
25	104 0896	Crankshaft
26	515 0400	Machine Screw - Trust Head
27	821 0014	Screw, Hex Head Cap - Locking Flange (5/16 - 18 x 1/2")
28	150 1257	Sector, Governor Flywheel
29	150 0071	Pin, Governor Flywheel
31	515 0227	Key, Key

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**REPAIR PARTS**

ROPER 18T TWIN-GARDEN TRACTOR-MODEL NO. T8328BR  
ONAN ENGINE-MODEL NO. E48M-GA018/3560A

**GEAR COVER, OIL BASE AND OIL PUMP GROUP**



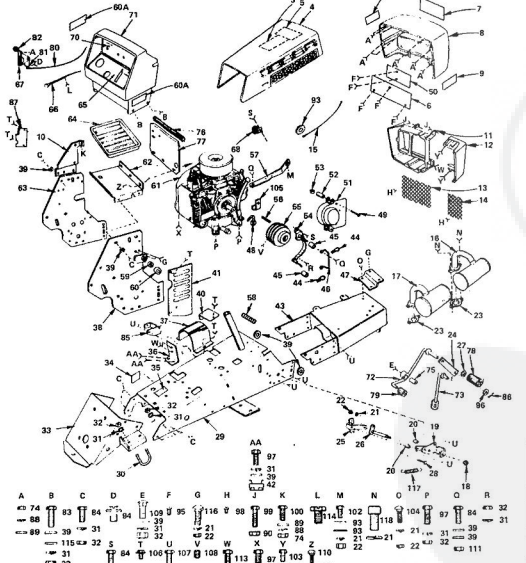
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KEY NO.	PART NO.	DESCRIPTION	KEY NO.	PART NO.	DESCRIPTION
1	103 0498	Cover Assembly, Gear (Includes Parts Mark'd)	21	120-0161	Gasket Kit, Oil Pump
2	510-0105	Bearing, Governor Shaft	22	850-0050	Washer, Spring Lock (3/8")
3	150-1470	Shaft and Arm Assembly, Governor	23	850-0040	Washer, Spring Lock (1/4")
4	150-1187	Yoke Governor Shaft	24	526-0066	Washer, Flat - Copper (2 1/4") I.D. x 8/16" O.D. x 1/16" Thick
5	815-0048	Screw, Yoke Retaining	28	505-0176	Nipple, Pipe - Oil Drain (1/2 x 3-1/2")
6	516-0130	Pin, Governor Cup Stop	29	505-0158	Cap, Pipe (1/2")
7	509-0008	Seal, Oil - Governor Shaft	36	526-0066	Washer, Flat - Copper (25/64" I.D. x 9/16" O.D. x 1/16" Thick) - By Pass Valve
8	510-0014	Bolt, Bearing Governor Shaft	37	800-0056	Screw, Hex Head Cap (3/8 - 16 x 2-1/2")
9	409-0040	Seal, Gear Cover	38	800-0032	Screw, Hex Head Cap (5/16 - 18 x 1-3/4") - Gear Cover Mounting
10	103-0408	Gasket, Gear Cover	38	800-0545	Screw, Hex Head Cap (5/16 - 18 x 2-3/4") - Gear Cover Mounting
12	123-1292	Cap and Indicator, Oil Fill	39	800-0007	Screw, Hex Head Cap (1/8 - 20 x 1")
13	102-0932	Gasket, Oil Base Mounting			
14	505-0056	Plug, Oil Drain			
15	103-0141	8/32x, Oil			
16	120-0140	Sealing, Oil By Pass Valve			
17	801-0050	Screw, Hex Head Cap (3/8 - 16 x 2-1/2") - Oil By Pass Valve			
18	120-0398	Valve, Oil By Pass			
19	120-0491	Pump, Oil - Ceramic (NOTE: Internal parts not sold separately)			
20	120-0713	Intake, Oil Pump (Includes: Cap, Screen and Seal)			

**REPAIR PARTS**

ROPER 18 TWIN HYDRO GARDEN TRACTOR-MODEL NO. T8338AR

**MAIN FRAME, DASHBOARD AND GRILL**



**REPAIR PARTS**

ROPER 18 TWIN HYDRO GARDEN TRACTOR-MODEL NO. T8338AR

**MAIN FRAME, DASHBOARD AND GRILL**

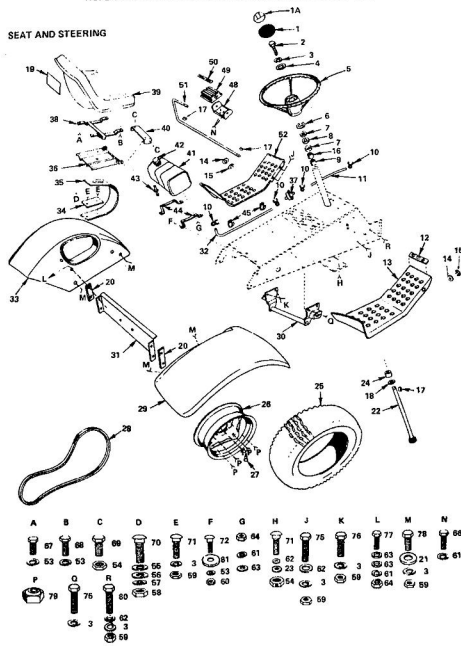
KEY NO.	PART NO.	DESCRIPTION	KEY NO.	PART NO.	DESCRIPTION
3	8028R	Decal - Maintenance	61	848M/GA018	Engine, Onan 18 H.P. Twin Cylinder
4	834A837	Hood Assembly	62	3475A	Battery Support
5	9890R	Decal - Wiring	63	150L3	Battery Support Bracket - L.H.
6	291J	Grill Panel - Lower	63	896J	Battery Tray
7	245J	Decal - Roper	65	896R	Decal - Lower Dash
8	911J	Lower Grill	66	8855R	Choke Control
9	246J	Decal - Roper	67	1520J	Throttle Control Lever
10	1151J	Rectifier Bracket	68	8775E1	Choke Control Clip
11	7537R	Lower Grill	70	9859R	Decal - Upper Dash
12	7538R	Grill Side	71	1123R	Dashboard
13	2874R	Grill Screen - L.H.	72	634A201	Pedal Weldment P.T.O.
14	2873R	Grill Screen - R.H.	73	634A203	Lower Weldment
15	8058R	Grill Cable	74	503P	Hex Nut 1/4 - 20 UNC
16	105J	Muffler - Front	75	91J	Pin, Spacer
17	105J	Muffler - Rear	76	7874R	Hood Seal
18	7810H	Griggs Centerlock Nut 3/8 - 24 UNF	77	8007H	Bracket, Rear Shroud
19	634A404	Bushing	78	92J	Rubber Foot
20	1690E	Lockwasher 5/16	79	257J	Foot Panel
21	1003P	Lockwasher 5/16	80	1516J	Throttle Wire and Casing
22	506P	Hex Nut 5/16 - 18 UNC	81	8204R	Throttle Cam
23	878J	Gasket - Exhaust Manifold	82	1516J	Throttle Control
24	95J	Gasket - Exhaust Manifold	83	3072P	Hex Bolt 3/8 - 16 x 1-1/2
25	834A482	Switch Bracket Assembly	84	3072P	Hex Bolt 3/8 - 16 x 1
26	634A481	Link	85	634A385	Front Hanger Weldment - L.H.
27	82J	Spindle Nut/Push-on	86	2506P	Dotter Pin 7/8 x 1
28	3013P	Hex Bolt 5/16 - 18 x 1-1/2	87	86J	Cover - L.H.
29	634A204	Lockwasher 5/16	88	1520P	Washer 8/32 x 5/8 x 16 Ga.
30	5080R	Assembly	90	1005H	Locknut 1/4 - 20 UNC
31	1004P	Lockwasher 3/8	91	1005P	Lockwasher No. 10
32	501P	Hex Nut 3/8 - 18 UNC	93	505P	Nut No. 10 - 24 UNC
33	634A638	Distal Weldment	94	1537P	Washer 11/32 x 1 1/8 x 16 Ga.
34	8143R	Decal - By Pass Valve	94	6055P	Hex Shutoff Mt. Mach. Screw
35	5028R	Decal - Parking Brake			
36	5108P	Filter Mounting Bracket	95	5564P	Welding Int. Fourth Lockwasher
37	6304R	Oil Filter Shank			
38	634A603	Battery Support Bracket (Inc. Key No. 99)	96	1545P	Hex Bolt 3/8 - 16 x 1 1/2
39	1613P	Washer 13/32 x 13/16 - 16 Ga.	97	3025P	Pin, Flat 3/8 x 1 1/2 x 1/8
40	811J	Neutral Adjustment Cover	98	5501P	Castor Screw, Push-on Pin Hd. Thrd
41	7729R	Cover - R.H.	99	3267P	Hex Bolt 1/4 - 20 x 1-1/2
42	8115R	Retainer Nut 3/8 - 16 UNC	100	2011P	Hex Bolt 5/16 - 18 x 3/4
43	634A604	Engine Mount Assembly	103	5010P	Hex Bolt 5/16 - 18 x 3/4
44	4923M	Retainer Spring	104	879J	Carriage Bolt 5/16 - 18 x 3/4
45	8704H	Retainer	105	879J	Clip - Cable
46	5621R	Bolt, Retainer	106	5537P	Carriage Screw, Hex Washer Hd. Thrd
47	95J	Pin, Retainer	107	3025P	1/4 - 20 x 1/2 Type 1
48	8745R	Bolt, Retainer Finger	108	4540P	Set Screw, Hex Flange Socket Mallet
49	3164P	Machine Screw, Slotted Fillister Hd.			
50	290J	Grill Panel - Upper			
51	834A663	Bolt, Guard Weldment			
52	8738H	Pin, Spacer			
53	347H	Hex Bolt 3/8 - 16 UNC			
54	634A662	Bolt, Guard Weldment			
55	634A665	Engine Pulley (Inc. Key No. 108)			
56	8285E	Square Key 1/4 x 2			
57	875J	Grill Brace			
58	3025P	Wire Guard			
59	7758R	Idle Bearing			
60	8005R	Idle Shaft Cap			
60A	1308J	Decal	118	3366P	Socket Mt. Cap Screw 5/16 - 18 x 3/4

\*STANDARD HARDWARE-PURCHASE LOCALLY

### REPAIR PARTS

ROPER 18 TWIN HYDRO GARDEN TRACTOR-MODEL NO. T8338AR

#### SEAT AND STEERING



### REPAIR PARTS

ROPER 18 TWIN HYDRO GARDEN TRACTOR-MODEL NO. T8338AR

#### SEAT AND STEERING

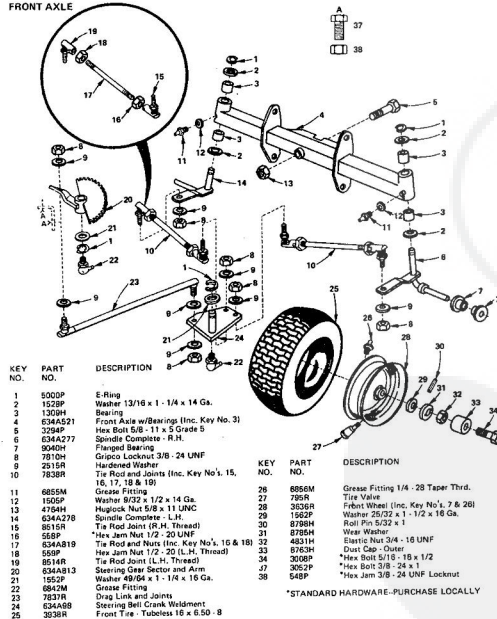
KEY NO.	PART NO.	DESCRIPTION	KEY NO.	PART NO.	DESCRIPTION
1	9719R	Steering Wheel Insert	41	2932R	Fuel Tank
1A	2361	Decal - Roper	42	7292R	Fuel Gauge
2	3022P	*Hex Bolt 3/8" x 16 x 1	43	815R	Fuel Line Fitting
3	1004P	*Lockwasher 3/8"	44	7050R	Bracket - Fuel Tank
4	1558P	Washer 7/16 x 1 x 10 Ga.	45	2751R	Clip - Fuel Line
5	2044R	Steering Wheel	46	8702H	Foot Rest Bracket
6	5003P	E-Ring	49	8882R	Foot Rest
7	9003H	Cap	50	8883R	Insert - Clutch - Brake
8	5949H	Rubber Bushing	51	840J	Foot Rest Shaft
9	8468R	Bearing	52	8738R	Foot Rest - L.H.
10	6999R	Clamp - Fuel Line	53	1003P	*Lockwasher 5/16"
11	7833R	Fuel Line (Short)	54	5384H	Locknut 3/8" - 16 UNC
12	8900R	Decal (Attach. Clutch)	55	1578P	Washer 3/4 x 1 - 1/8 x 11 Ga.
13	7904R	Foot Rest - R.H.	56	1560P	Washer 17/32 x 1 - 1/2 x 11 Ga.
14	1527P	Washer 21/32 x 7/8 x 16 Ga.	57	1000P	*Lockwasher 1/2"
15	5001P	E-Ring	58	502P	*Hex Nut 1/2" - 13 UNC
16	7895R	Steering Shaft Spacer	59	501P	*Hex Nut 3/8" - 16 UNC
17	9858M1	Woodruff Key 3/16 x 5/8	60	504P	*Hex Nut 5/16" - 18 UNC
18	1553P	Washer 5/16 x 1 - 1/4 x 16 Ga.	61	1002P	*Lockwasher 1/4"
19	245J	Decal - Roper	62	1513P	Washer 13/32 x 13/16 x 16 Ga.
20	1185J	Spacer - Tailight Bracket	63	1505P	Washer 9/32 x 5/8 x 16 Ga.
21	1557P	Washer 3/25 x 13/16 x 11 Ga.	64	503P	*Hex Nut 1/4" - 20 UNC
22	634A77S	Steering Shaft & Pinion	65	3003P	*Hex Bolt 1/4" - 20 x 3/4
23	1519P	Washer 15/32 x 1 x 13 Ga.	67	3010P	*Hex Bolt 5/16" - 18 x 3/4
24	4785H	Bearing	68	3165P	*Hex Bolt 5/16" - 18 x 7/8
25	4601R	Rear Tire - Tubeless 23 x 10.00 - 12	69	3020P	*Hex Bolt 3/8" - 16 x 7/8 Gr. 5
26	3635R	Rear Wheel	70	81P	Carriage Bolt 1/2" - 13 x 1 - 1/4 Gr. 5
27	795R	Tire Valve	71	17P	*Carriage Bolt 5/16" - 18 x 1
28	5125R	V-Belt (Ground Drive)	72	3025P	*Hex Bolt 3/8" - 16 x 1 - 1/4
29	8428R	Fender - R.H.	73	3023P	*Hex Bolt 3/8" - 16 x 1
30	634B14	Hanger Weldment - Rear	74	3004P	*Hex Bolt 1/4" - 20 x 1
31	2666R	Bracket - Tailight	75	3021P	*Hex Bolt 3/8" - 16 x 3/4
32	8545P	Fuel Line Group	76	5137R	Lug Nut
33	8177R	Fender - L.H.	77	1537P	*Hex Bolt 3/8" - 16 x 1-1/2
34	8141H	Seat Spring Reinforcement	78	3027P	*Hex Bolt 3/8" - 16 x 1-1/2
35	8404R	Seat Spring	79	81	Brake Carriage Anchor No. 1, E.P.
36	634A523	Seat Bracket Weldment	80	2557R	Washer 17/32 x 1 1/8 x 16 Ga.
37	286J	Seat Bracket Weldment	81	1108J	Warranty Tag
38	634A53Z	Seat	---	1191J	Owners Manual
39	8744R	Seat			
40	2063R	Bracket Seat Pivot			

\*STANDARD HARDWARE-PURCHASE LOCALLY

### REPAIR PARTS

ROPER 18 TWIN HYDRO GARDEN TRACTOR-MODEL NO. T8338AR

#### FRONT AXLE



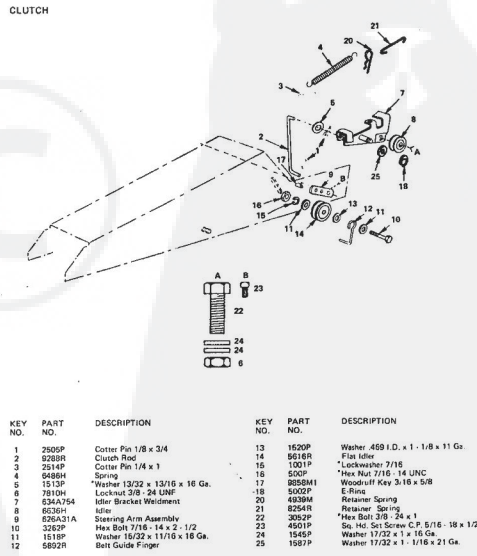
KEY NO.	PART NO.	DESCRIPTION	KEY NO.	PART NO.	DESCRIPTION
1	5000P	E-Ring	26	8855M	Grease Fitting 1/4" - 28 Taper Thrd.
2	1529P	Washer 13/16 x 1 - 1/4 x 14 Ga.	27	795R	Tire Valve
3	1309H	Bearing	28	3635R	Front Wheel (Inc. Key No's. 7 & 26)
4	634A521	Front Axle w/Bearings (Inc. Key No. 3)	29	1562P	Washer 25/32 x 1 - 1/2 x 16 Ga.
5	3294P	*Hex Bolt 5/8" - 11 x 5 Grade 5	30	8780H	Roll Pin 5/32 x 1
6	634A777	Spline Complete - R.H.	31	8780H	Wash Washer
7	9040H	Flanged Bearing	32	4831H	Elastic Nut 3/4" - 16 UNF
8	7810H	Carriage Locknut 3/8" - 24 UNF	33	8763H	Dust Cap - Outer
9	2915R	Hardened Washer	34	3008P	*Hex Bolt 5/16" - 18 x 1/2
10	7838R	Tie Rod and Joints (Inc. Key No's. 15, 16, 17, 18 & 19)	35	2652P	*Hex Bolt 3/8" - 24 x 1
11	6855M	Grease Fitting	36	548P	*Hex Jam 3/8" - 24 UNF Locknut
12	1505P	Washer 8/32 x 1/2 x 14 Ga.			
13	4764H	Huglock Nut 5/8 x 11 UNC			
14	634A73B	Soville Complete - L.H.			
15	8615R	*Hex Jam Nut 1/2" - 20 UNF			
16	568P	*Hex Jam Nut 1/2" - 20 UNF			
17	634A819	Tie Rod Joint (R.H. Thread)			
18	568P	*Hex Jam Nut 1/2" - 20 (L.H. Thread)			
19	8514R	Tie Rod Joint (L.H. Thread)			
20	634A813	Steering Gear Sector and Arm			
21	1552P	Washer #8/16 x 1 - 1/8 x 16 Ga.			
22	6842M	Grease Fitting			
23	7837H	Drag Link and Joints			
24	634A88B	Steering Bell Crank Weldment			
25	3635R	Front Tire - Tubeless 16 x 6.50 - 8			

\*STANDARD HARDWARE-PURCHASE LOCALLY

### REPAIR PARTS

ROPER 18 TWIN HYDRO GARDEN TRACTOR-MODEL NO. T8338AR

#### CLUTCH



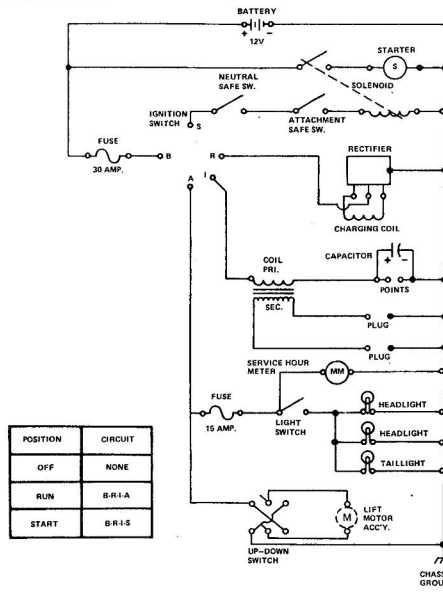
KEY NO.	PART NO.	DESCRIPTION	KEY NO.	PART NO.	DESCRIPTION
1	2905P	Cotter Pin 1/8 x 3/4	13	1520P	Washer 459 I.D. x 1 - 1/8 x 11 Ga.
2	9288R	Clutch Rod	14	8616R	Pin Inter
3	2314P	Cotter Pin 1/4 x 1	15	1001P	*Lockwasher 7/16"
4	6486H	Spring	16	500P	*Hex Nut 7/16" - 14 UNC
5	3513P	Washer 3/32 x 13/16 x 16 Ga.	17	8858M1	Woodruff Key 3/8 x 5/8
6	7810H	Locknut 3/8" - 24 UNF	18	3002P	E-Ring
7	634A75A	Idle Bracket Weldment	19	4689M	Retainer Spring
8	6530H	Idle	21	8254R	Retainer Spring
9	634A75A	Steering Arm Assembly	22	2905P	*Hex Bolt 1/8" - 24 x 1
10	3282P	*Hex Bolt 7/16" - 14 x 2 - 1/2	23	4501P	Std. Hd. Set Screw C.P. 5/16" - 18 x 1/2
11	1518P	Washer 15/32 x 1 1/16 x 16 Ga.	24	1546P	Washer 17/32 x 1 x 16 Ga.
12	6862R	Ball Guide Finger	25	1587P	Washer 17/32 x 1 - 1/16 x 21 Ga.

\*STANDARD HARDWARE-PURCHASE LOCALLY

### REPAIR PARTS

ROPER 18 TWIN HYDRO GARDEN TRACTOR-MODEL NO. T8338AR

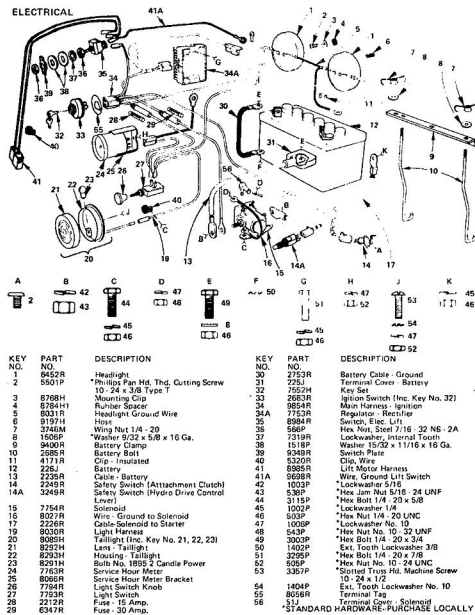
#### SCHEMATIC DIAGRAM



### REPAIR PARTS

ROPER 18 TWIN HYDRO GARDEN TRACTOR-MODEL NO. T8338AR

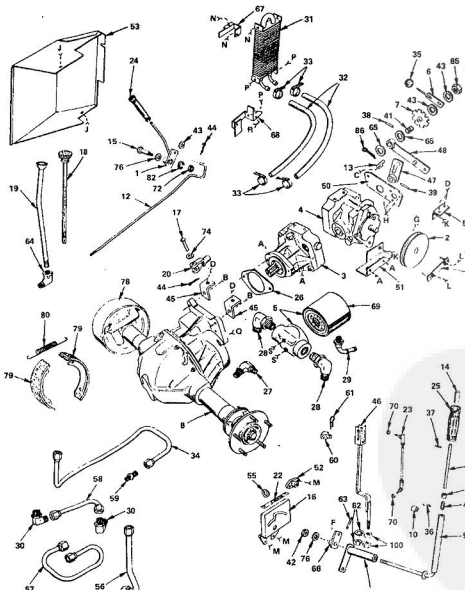
#### ELECTRICAL



### REPAIR PARTS

ROPER 18 TWIN HYDRO GARDEN TRACTOR-MODEL NO. T8338AR

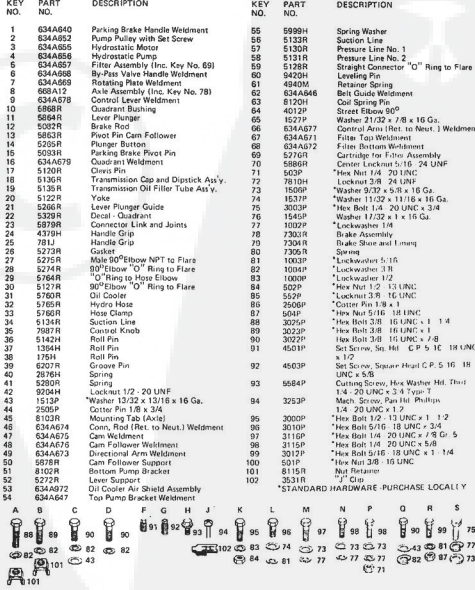
#### HYDROSTATIC AXLE, PUMP AND MOTOR



### REPAIR PARTS

ROPER 18 TWIN HYDRO GARDEN TRACTOR-MODEL NO. T8338AR

#### HYDROSTATIC AXLE, PUMP AND MOTOR

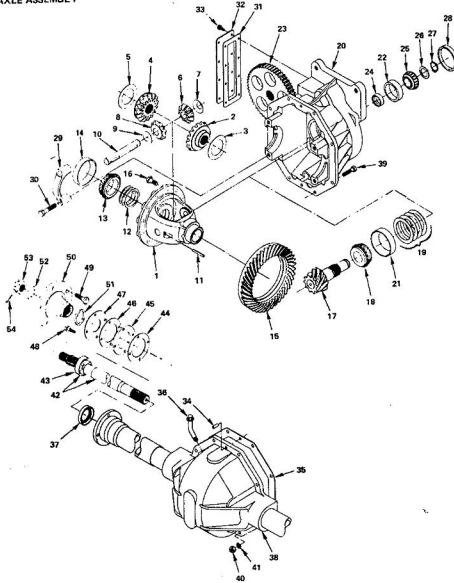




**REPAIR PARTS**

ROPER 18 TWIN HYDRO GARDEN TRACTOR--MODEL NO. T8338AR

AXLE ASSEMBLY



**REPAIR PARTS**

ROPER 18 TWIN HYDRO GARDEN TRACTOR--MODEL NO. T8338AR

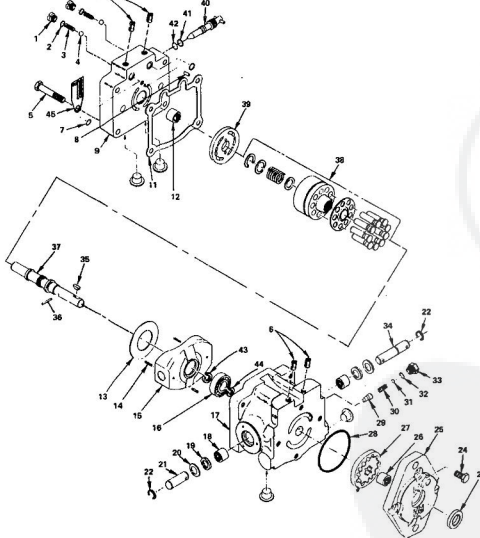
AXLE ASSEMBLY

KEY NO.	PART NO.	DESCRIPTION
1	7164R	Diff. Case
2 & 4	7165R	Diff. Gear (Set of Two)
3 & 5	7166R	Diff. Gear Thrust Washer (Set of Two)
6 & 8	7166R	Diff. Pinion Mate (Set of Two)
7 & 9	7170R	Diff. Pinion Thrust Washer
10	7167R	Diff. Shaft (Pin. Mate)
11	7168R	Diff. Shaft Lock Pin
12	7202R	Diff. Adj. Shim (Set of Four .003 to .005)
13	7207R	Big. Cone
14	7206R	Big. Cone
15 & 17	7171R	Gear and Pinion Assembly
16	7172R	Drive Sprocket
18	7201R	Roller Big. Cone
19	7196R	Pin. Big. Shim (Set of Four .003 to .005)
20, 29 & 30	7173R	Upper Htg. Sub. Assembly (Inc. Key No. 29)
30	3299P	Hex Hd. Cap Screw 7/16. 14 N.C. x 2 Grade 5
21	7200R	Roller Big. Cone
22	7194R	Big. Cone
23	7208R	Sprock. Gear
24	7185R	Pin. Big. Spacer
25	7193R	Big. Cone
26	7179R	Pin. Big. Shim (Set of Four .031 to .057)
27	7178R	Snap Ring
28	7177R	Wash. Plug
31	7174R	Gear Cover Gasket
32	7175R	Gear Cover
33	7176R	Hex Top Screw
34	7217R	Down Pin
35	7210R	Housing Gasket
36	7214R	Vent. Tube Assembly
37	7218R	Oil Seal
38	7215R	Lower Htg. and Tube Assembly
39	3303P	Hex Bolt 5/16. 24 NF x 1 1/4 Grade 5
40	516P	Hex Nut 5/16. 24 NF
41	1003P	Lockwasher 5/16
42 & 43	7209R	Axle Shaft and Bearing (Inc. Key No. 43)
43	7211R	Wheel Bearing
44, 46 & 47	7180R	Wheel Bearing Gasket (Set of Three)
45	7181R	Wheel Bearing Retainer
48	7213R	Bolt
49	7216R	Wheel Bolt
50	7212R	Axle Shaft Flange Assembly
51	7218R	Felt Seal
52	7220R	Wheel End Washer
53	7221R	Wheel End Nut
54	7222R	Wheel End Center Pin

**REPAIR PARTS**

ROPER 18 TWIN HYDRO GARDEN TRACTOR--MODEL NO. T8338AR

HYDROSTATIC PUMP ASSEMBLY--MODEL NO'S. 15-2023 AND 15-2084



**REPAIR PARTS**

ROPER 18 TWIN HYDRO GARDEN TRACTOR--MODEL NO. T8338AR

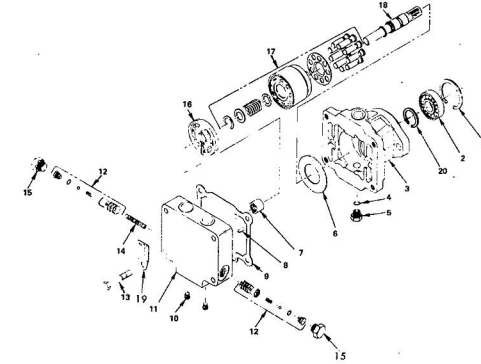
HYDROSTATIC PUMP ASSEMBLY--MODEL NO'S. 15-2023 AND 15-2084

KEY NO.	PART NO.	DESCRIPTION
1,2,3	AN104	Check Valve Kit
4	7224R	Hex Head Cap Screw
5	7221R	Pop Plug
7	7226R	O' Ring
8	7227R	Headless Str. Pin
9	7228R	End Cap
11	7228R	Gasket
12	7230R	Needle Bearing
13	7231R	Thrust Plate
14	7232R	Coiled Spring Pin
15	7233R	Swashplate
16	7234R	Roll Bearing
17	1601J	Housing (For Pump Model No. 15 - 2084 ONLY)
17	7235R	Housing (For Pump Model No. 15 - 2023 ONLY)
18	7238R	Needle Bearing
19	7237R	Lip Seal
20	7238R	Washer
21	7238R	Transition Shaft
22	7240R	Retaining Ring
23	7241R	Lip Seal
24	7242R	Hex Head Cap Screw
25	7243R	Charge Pump Housing
26	7244R	Needle Bearing
27	7245R	Gasket Assembly
28	7246R	O' Ring
29	7247R	Relief Valve Cone
30	7248R	Relief Valve Spring
31	7249R	Spum Back
32	7250R	O' Ring
33	1603J	Hex Head Plug (For Pump Model No. 15 - 2084 ONLY)
33	7251R	Hex Head Plug (For Pump Model No. 15 - 2023 ONLY)
34	7252R	Control Shaft
35	7253R	Woodruff Key
36	7254R	Head Str. Pin
37	1602J	Shaft (For Pump Model No. 15 - 2084 ONLY)
37	7255R	Shaft (For Pump Model No. 15 - 2023 ONLY)
38	7256R	Cyl. Block Kit
39	7257R	Valve Plate
40	7258R	By-Pass Valve
41	7259R	Back Up Ring
42	7260R	O' Ring
43	1604J	Retaining Ring (For Pump Model No. 15 - 2084 ONLY)
44	1605J	Retaining Ring (For Pump Model No. 15 - 2084 ONLY)
45	.....	Model Part
.....	634A556	Complete Pump Assembly

### REPAIR PARTS

ROPER 18 TWIN HYDRO GARDEN TRACTOR-MODEL NO. T833BAR

#### HYDROSTATIC MOTOR ASSEMBLY

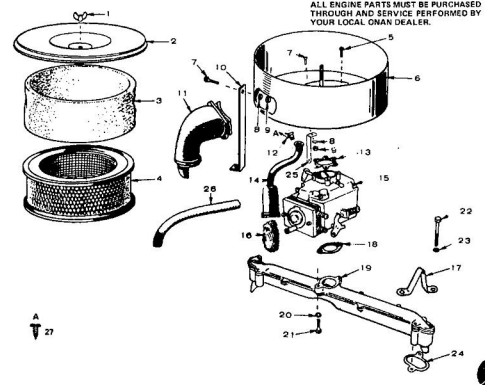


KEY NO.	PART NO.	DESCRIPTION	KEY NO.	PART NO.	DESCRIPTION
1	7262R	Retaining Ring	11	7272R	End Cap
2	7263R	Ball Bearing	12	7271R	Accelerator Valve Assembly
3	7264R	Motor Case	13	7278R	Hex Head Cap Screw
4 & 6	7265R	Hex Hd. Plug	14	7275R	Accelerator Spring
5	7231R	Thrust Plate	15	7230R	Hex Head Plug
7	7230R	Roller Bearing	16	7275R	Valve Plate
8	7272R	Hdless. Str. Pin	17	7556R	Cyl. Block Kit
9	7275R	Gasket	18	7278R	Main Shaft
10	7273R	Pipe Plug	19	.....	Model Plate
			20	2241	Retaining Ring
			.....	63AA555	Complete Motor Assembly

### REPAIR PARTS

ROPER 18 TWIN HYDRO GARDEN TRACTOR-MODEL NO. T833BAR

#### FUEL SYSTEM GROUP



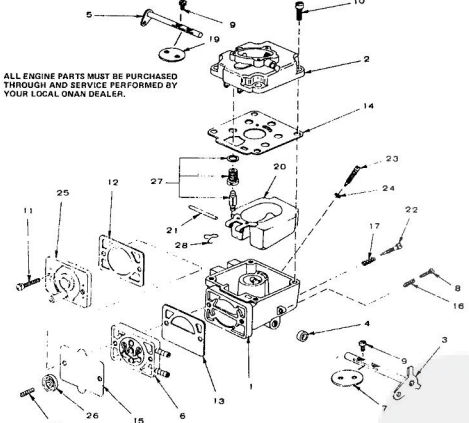
ALL ENGINE PARTS MUST BE PURCHASED THROUGH AND SERVICE PERFORMED BY YOUR LOCAL OMAN DEALER.

KEY NO.	PART NO.	DESCRIPTION	KEY NO.	PART NO.	DESCRIPTION
1	800-0020	Wing Nut (1/4" - 20)	15	142-0568	Carburetor
2	140-1189	Air Cleaner Cover	16	123-0855	Filter
3	140-1259	Air Cleaner Wrapper	17	403-1021	Lifting Bracket
4	140-1216	Air Cleaner Element	18	145-0030	Gasket
5	815-0463	Machine Screw, Slotted Head (No. 10 - 5/8")	18	184-1468	Intake Manifold
6	140-1213	Air Cleaner Housing	21	800-0023	Cap Screw (1/4" - 20 x 1 - 3/8")
7	800-0023	Cap Screw (1/4" - 20 x 1 1/2")	22	.....	Cap Screw
8	863-0013	Lockwasher (1/4")		800-0033	5/16 - 18 x 2"
8	863-0011	Hex Nut (1/4" - 20)		800-0034	5/16 - 18 x 2 - 1/4"
10	140-1198	Support		860-0045	Lockwasher (5/16")
11	140-1189	Air Intake Tube	23	184-1744	Gasket
12	518-0028	Cable Clip	24	140-1313	Support
13	140-1215	Gasket	26	503-0740	Fuel Hose
14	123-1277	Breather Tube	27	559P	Tub Screw Sl. Pan Hd. No. 8 x 3/4 Type A8

### REPAIR PARTS

ROPER 18 TWIN HYDRO GARDEN TRACTOR-MODEL NO. T833BAR

#### CARBURETOR PARTS GROUP



ALL ENGINE PARTS MUST BE PURCHASED THROUGH AND SERVICE PERFORMED BY YOUR LOCAL OMAN DEALER.

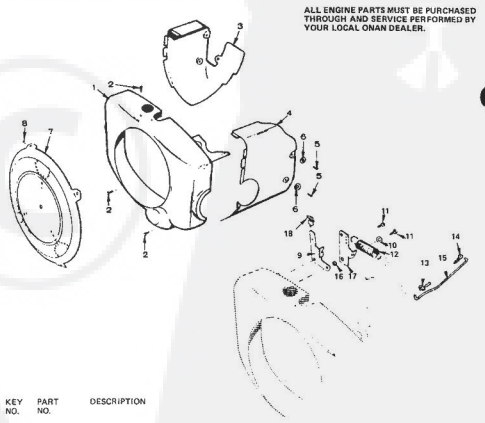
KEY NO.	PART NO.	DESCRIPTION	KEY NO.	PART NO.	DESCRIPTION
1	142-0574	Body	17	142-0583	*Spring
2	142-0573	Body	18	142-0545	*Spring
3	142-0574	Throttle Shaft	19	142-0546	Fly
4	142-0525	Idler	20	142-0597	Pin
5	142-0535	Choke Shaft	21	142-0548	*Shaft
6	142-0537	*Valve Assembly	22	142-0516	Idle Needle
7	142-0538	Fly	23	142-0549	High Speed Screw
8	142-0504	Trim Screw	24	142-0550	*Sul
9	142-0334	*Screw	25	142-0551	Cover
10	142-0539	Screw	25	142-0552	*Plate
11	142-0540	Screw	27	142-0553	*Valve Assembly
12	142-0541	Gasket	28	142-0554	Retaining Clip
13	142-0542	Gasket	.....	142-0571	Gasket Kit (Inc. Parts Marked *)
14	142-0572	Gasket	.....	142-0570	Repair Kit (Inc. Parts Marked *)
15	142-0555	*Diaphragm			
16	142-0544	Spring			

\*Parts included in 142-0571 Gasket Kit.  
\*Parts included in 142-0570 Repair Kit.

### REPAIR PARTS

ROPER 18 TWIN HYDRO GARDEN TRACTOR-MODEL NO. T833BAR

#### BLOWER HOUSING AND GOVERNOR GROUP



ALL ENGINE PARTS MUST BE PURCHASED THROUGH AND SERVICE PERFORMED BY YOUR LOCAL OMAN DEALER.

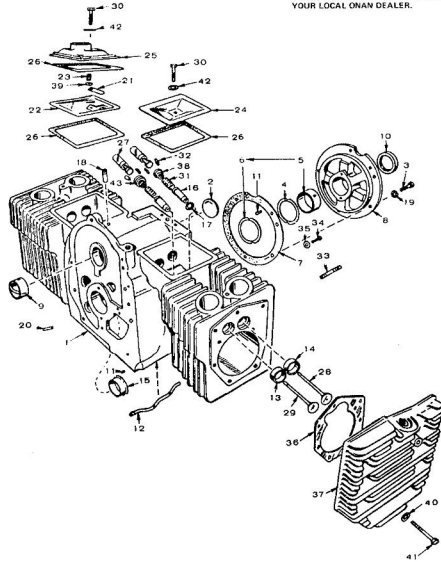
KEY NO.	PART NO.	DESCRIPTION
1	134-3567	Blower Housing
2	815-0281	Cap Screw (1/4" - 20 x 7/16")
3	134-2898	Cylinder Air Housing, Left Side
4	134-2818	Cylinder Air Housing, Right Side
5	815-0290	Cap Screw (1/4" - 20 x 5/8")
6	528-0021	Flat Washer (1 7/8" I.D. x 3/4" O.D. x 1/16" Thick)
7	134-2313	Guard
8	815-0378	Cap Screw, W/EI (No. 14 x 1/2")
9	153-1343	Bracket
10	528-0214	Flat Washer (1 7/8" I.D. x 1/2" O.D. x 1/16" Thick)
11	815-0436	Cap Screw (1/4" - 20 x 1/2")
12	150-1114	Bracket
13	870-0278	Retainer Clip
14	518-0004	Retainer Clip
15	150-1350	Rod
16	150-1359	Washer
17	150-1516	Arm
18	518-0176	Clip

### REPAIR PARTS

ROPER 18 TWIN HYDRO GARDEN TRACTOR-MODEL NO. T8338AR  
ONAN ENGINE-MODEL NO. B48M-GA018/3475A

#### CYLINDER BLOCK GROUP

ALL ENGINE PARTS MUST BE PURCHASED THROUGH AND SERVICE PERFORMED BY YOUR LOCAL ONAN DEALER.



### REPAIR PARTS

ROPER 18 TWIN HYDRO GARDEN TRACTOR-MODEL NO. T8338AR  
ONAN ENGINE-MODEL NO. B48M-GA018/3475A

#### CYLINDER BLOCK GROUP

KEY NO.	PART NO.	DESCRIPTION	KEY NO.	PART NO.	DESCRIPTION
1	110 2590	Cylinder Block Assembly	21	123 1175	Rivet
2	537 0048	*Plug	22	123 1173	Baffle
3	800 0501	*Cap Screw (3/8 - 16 x 1 - 1/4")	23	123 1174	Spring
4	104 0775	*Shim (.025" Thick)	24	110 1875	Valve Cover
5	101 0450	Standard	25	110 2271	Valve Cover
6	101 0450 02	.002" Undersize	26	110 1297	Gasket
7	101 0450 10	.010" Undersize	27	VALVE TAPPET	
8	101 0450 20	.020" Undersize	115 8006	*Standard	
9	101 0450 30	.030" Undersize	115 8005 01	.001" Oversize	
10	101 0450 40	.040" Undersize	115 8006 02	.002" Oversize	
11	101 0450 50	.050" Undersize	115 8006 05	.005" Oversize	
12	120 0735	*Tube	110 1835	Intake Valve	
13	VALVE 27 AT INERT, EXHAUST		28	110 1860	Exhaust Valve
14	VALVE 18 AT INERT, INTAKE		29	800 0010	Cap Screw (1/4 - 20 x 3/4")
15	CRANKSHAFT BEARING, FRONT		30	110 0539	Valve Spring
16	110 1824 02	.002" Oversize	31	110 0539	Valve Spring Lock
17	110 1824 05	.005" Oversize	32	629 0820	Shut
18	110 1824 10	.010" Oversize	33	629 0545	Cap Screw (3/8 - 16 x 1/2")
19	110 1824 20	.020" Oversize	34	629 0005	Flat Washer, Copper (25/64" I.D. x 9/16" O.D. x 1/16" Thick)
20	515 0141	*Alignment Pin	35	110 2287	Head Gasket
			36	CYLINDER HEAD	
			37	110 2564	Right Side
			38	110 2563	Left Side
			39	110 0504	Rock Cap - Exhaust Valves
			40	526 0016	Flat Washer (17/64" I.D. x 5/8" O.D. x 1/16" Thick)
			41	526 0122	Flat Washer (11/32" I.D. x 23/32" O.D. x 10 Ga.)
			42	CAP SCREW SPECIAL	
			43	800 0540	5/16 - 18 x 1 - 5/8"
			44	800 0541	5/16 - 18 x 2"
			45	526 0063	Flat Washer, Copper (17/64" I.D. x 7/16" O.D. x 1/32" Thick)
				110 0893	Retainers - Intake Valves
				160 1213	Ignition Tube Kit
				160 0140	Carbon Removal Gasket Kit
				160 0141	Engine Gasket Kit

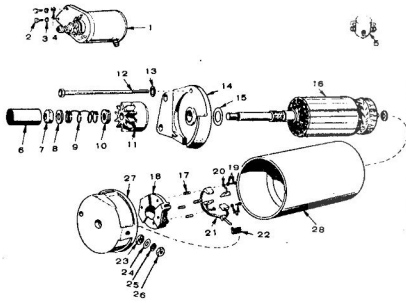
\*Parts Included in Cylinder Block Assembly

### REPAIR PARTS

ROPER 18 TWIN HYDRO GARDEN TRACTOR-MODEL NO. T8338AR  
ONAN ENGINE-MODEL NO. B48M-GA018/3475A

#### STARTER GROUP

ALL ENGINE PARTS MUST BE PURCHASED THROUGH AND SERVICE PERFORMED BY YOUR LOCAL ONAN DEALER.



KEY NO.	PART NO.	DESCRIPTION	KEY NO.	PART NO.	DESCRIPTION
1	191 0933	Starting Motor, Complete	15	191 1038	Washer
2	800 0028	Cap Screw (5/16 - 18 x 1")	16	191 1039	Armature
3	850 0045	Lockwasher (5/16")	17	&	*Spring
4	526 0113	Flat Washer (11/32" I.D. x 1" O.D. x 3/32" Thick)	18	&	*Brush
5	307 1031	Starting Solenoid	19	&	*Screw and Lockwasher
6	191 1024	Dust Cover	20	&	*Brush and Brush Assembly
7	191 1045	Stop Nut	21	&	*Brushing
8	191 1046	Washer	22	&	*Insulation Washer
9	191 1025	Spring	23	&	*Flat Washer
10	191 1047	Spacer	24	&	*Lockwasher
11	191 1036	Drive Assembly	25	&	*Nut
12	191 1048	Cap Screw	26	&	*Cap Assembly (Inc. Parts Marked +)
13	850 0040	Lockwasher (1/4")	27	&	*Housing
14	191 1037	Cap Assembly	28	&	*Recip Package (Inc. Parts Marked *)

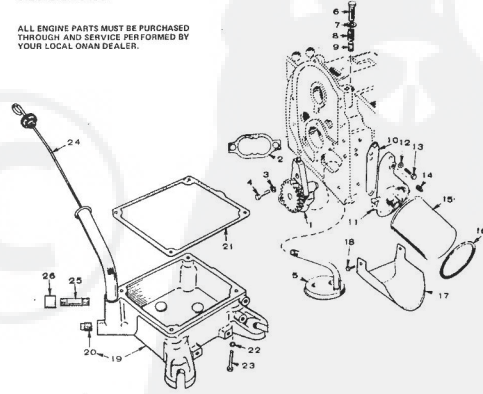
\*Parts included in 191 1040 Cap Assembly  
\*Parts included in 191 1041 Recip Package  
&Not Sold Separately

### REPAIR PARTS

ROPER 18 TWIN HYDRO GARDEN TRACTOR-MODEL NO. T8338AR  
ONAN ENGINE-MODEL NO. B48M-GA018/3475A

#### OIL SYSTEM GROUP

ALL ENGINE PARTS MUST BE PURCHASED THROUGH AND SERVICE PERFORMED BY YOUR LOCAL ONAN DEALER.

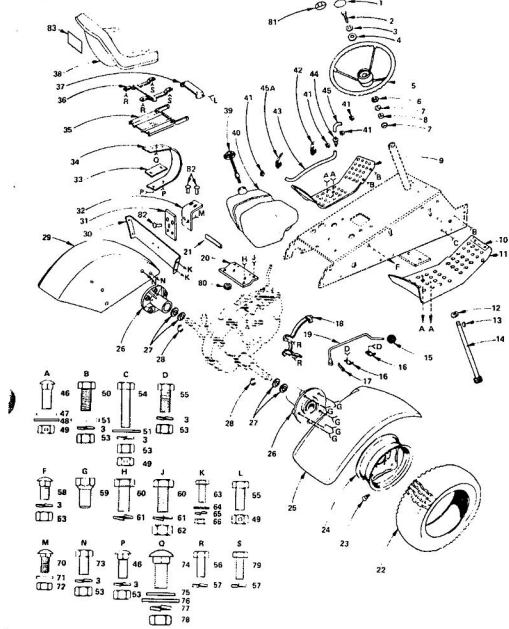


KEY NO.	PART NO.	DESCRIPTION	KEY NO.	PART NO.	DESCRIPTION
1	120 0401	Oil Pump (Components Not Sold Separately)	13	800 0028	Cap Screw (5/16 - 18 x 1")
2	120 0101	Oil Pump Gasket Kit	14	605 0057	Plug Plug
3	850 0509	Lockwasher (1/4")	15	122 0338	Oil Filter
4	800 0007	Cap Screw (1/4 - 20 x 1")	16	122 0347	Air Seal, Filter to Housing
5	120 0113	Intake Cup	17	122 0380	Oil Drain
6	801 0050	Cap Screw (3/8 - 24 x 1")	18	815 0194	Cap Screw W/ET (No. 10 - 32 x 3/8")
7	526 0056	Flat Washer, Copper (25/64" I.D. x 9/16" O.D. x 1/16" Thick)	19	102 0741	Oil Bisc
8	120 0140	Spring	20	505 0056	Plug
9	120 0398	Plunger	21	102 0693	Gasket
10	122 0321	Gasket	22	800 0050	Lockwasher (3/8")
11	122 0320	Adapter	23	800 0556	Cap Screw (3/8 - 16 x 2 - 1/2")
12	526 0005	Flat Washer, Copper (21/64" I.D. x 9/16" O.D. x 1/16" Thick)	24	123 1292	Cap and Indicator
			25	505 0176	Plug Nipple (1/2 x 3 - 1/2")
			26	505 0158	Plug Cap (1/2")



**REPAIR PARTS**

20T GARDEN TRACTOR-MODEL NO. T9329AR  
STEERING AND FINAL DRIVE



**REPAIR PARTS**

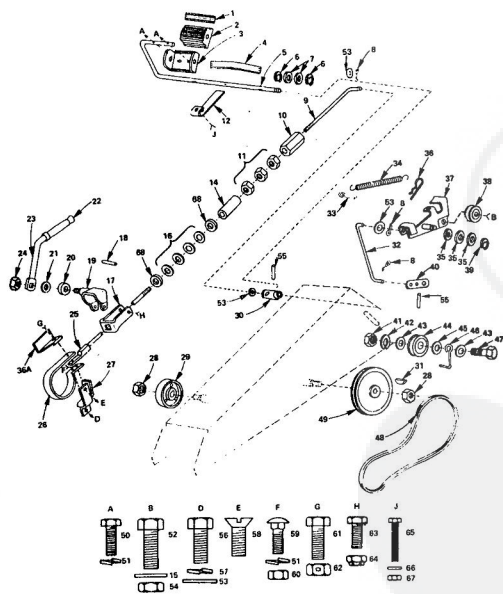
20T GARDEN TRACTOR-MODEL NO. T9329AR  
STEERING AND FINAL DRIVE

KEY NO.	PART NO.	DESCRIPTION	KEY NO.	PART NO.	DESCRIPTION
1	9719R	Steering Wheel Inset	46	61P	Sq. Nt. Shrt. Cur. Bolt 3/8 - 16 x 1 Ga. 5
2	3022P	*Hex Bolt 3/8 - 16 x 1	47	1813P	Washer 13/32 x 13/16 x 16 Ga.
3	1004P	*Lockwasher 3/8	48	1519P	Washer 15/32 x 1 x 17 Ga.
4	1555P	Washer 7/16 x 1 x 10 Ga.	49	5394H	Locknut 3/8 UNC
5	3644R	Steering Wheel	50	2025P	*Hex Bolt 3/8 - 16 x 1 1/4
6	6003P	E-Ring	51	1557P	Washer 13/32 x 13/16 x 11 Ga.
7	9007H	Cap	53	501P	*Hex Nut 3/8 - 16 UNC
8	5549H	Rubber Bushing	54	3022P	*Hex Bolt 3/8 - 16 x 1 1/2
9	7903R	Foot Rest - L.H.	55	3022P	*Hex Bolt 3/8 - 16 x 7/8
10	8509P	Seat Switch, Clutch	56	2019P	*Hex Bolt 5/16 - 18 x 3/4
11	7904H	Foot Rest - R.H.	57	1003P	*Lockwasher 5/16
12	1552P	Washer 5/16 x 1 - 1/4 x 16 Ga.	58	1304H	Sq. Neck Carriage Bolt 3/8 - 16 x 3/4
13	8808M1	Woodruff Key 3/16 x 3/8	59	16P	Hub Bolt
14	634A226	Steering Shaft and Pinion	60	3024P	*Hex Nut 7/16 - 14 x 1
15	6384H	Control Knob	61	1001H	Lockwasher 7/16
16	6421H	Shift Rod Bracket	62	500P	*Hex Nut 7/16 - 14 UNC
17	2511R	Cotter Pin 3/16 x 1	63	3003P	*Hex Bolt 1/4 - 20 x 3/4
18	634A22A	Ball Guide	64	1505P	*Washer 9/32 x 5/8 x 16 Ga.
19	9524R	Transmission Bracket	65	1002P	*Lockwasher 1/4
20	8514H	Seat Stop	66	603P	*Hex Nut 1/4 - 20 UNC
21	4607R	Rear Tire 23 x 10.50 - 12	67	16P	Hub Bolt
22	785R	Tire Valve	70	1577P	Washer 11/32 x 13/16 x 16 Ga.
23	2625P	Rear Wheel	71	1085H	Lock Nut 5/16 - 18 UNC
24	9428R	Fender - R.H.	72	3021P	*Hex Bolt 3/8 - 16 x 3/4
25	634A202	Wheel Hub - Rear	73	52P	Carriage Bolt 1/2 - 13 x 1 - 1/4 Gr. 5
26	7663P	Axle Thrust Washer	74	1570P	Washer 3/4 x 1 - 1/8 x 11 Ga.
27	5495H	Retaining Ring	75	1560P	Washer 17/32 x 1 - 1/2 x 11 Ga.
28	9427R	Fender - L.H.	76	1000P	*Lockwasher 1/2
29	2056H	Bracket - Tail Light	77	502P	*Hex Nut 1/2 - 13 UNC
30	1251	Seat Foam Retainer	78	3159P	*Hex Bolt 5/16 - 18 x 7/8
31	1251	Seat Stop Bracket	79	5547R	Rubber Grommet
32	8111H	Seat Spring Reinforcement	80	238L	Steering Wheel Detail
33	7888H	Seat Spring	81	124	Rubber Burner
34	634A776	Seat Plate Weldment	82	245L	Detail - Roper
35	634A537	Seat Bracket Weldment	83	1418J	Warranty Tag
36	7827R	Bracket, Seat Frame	84	1418J	Owner's Manual
37	9744R	Seat			
38	2329L	Fuel Gauge			
39	7885R	Fuel Tank			
40	6899R	Fuel Line Clamp			
41	2751R	Clip - Fuel Line			
42	897J	Fuel Line			
43	7741R	In-Line Filter			
44	903J	Fuel Line Elbow			
45	9297R	Clip - Fuel Line			
46A					

\*STANDARD HARDWARE - PURCHASE LOCALLY

**REPAIR PARTS**

20T GARDEN TRACTOR-MODEL NO. T9329AR  
BRAKE AND CLUTCH



**REPAIR PARTS**

20T GARDEN TRACTOR-MODEL NO. T9329AR  
BRAKE AND CLUTCH

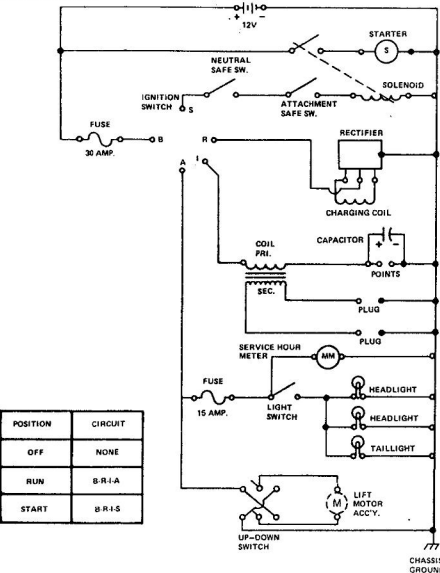
KEY NO.	PART NO.	DESCRIPTION	KEY NO.	PART NO.	DESCRIPTION	
1	8899R	Insert Clutch Brake	27	634A754	Idler Bracket Weldment	
2	8827R	Foot Pedal	28	6038H	Idler	
3	8960H	Foot Pedal Bracket	29	5002P	E-Ring	
4	9008H	Screw	30	634A680	Steering Arm Assembly	
5	111J	Foot Pedal Shaft	31	600P	*Hex Nut 7/16 - 14 UNC	
6	5001P	E-Ring	32	1001P	Lockwasher 7/16	
7	1527R	Washer 21/32 x 7/8 x 16 Ga.	33	1544P	Washer 15/32 x 15/16 x 16 Ga.	
8	2005P	Cotter Pin 1/8 x 3/4	34	6625H	Flat Idler 1/2 x 1 - 1/8 x 11 Ga.	
9	2307R	Brake Rod - Front	35	1520P	Washer #60 I.D. x 1 - 1/8 x 11 Ga.	
10	6417H	Turbocheck	36	6479H1	Belt Fange	
11	501P	*Hex Nut 3/8 - 16 UNC	37	2025P	*Hex Bolt 7/16 - 14 x 2 - 1/2	
12	7823R	Safety Start Actuator	38	2692R	V-Belt	
13	2201R	Bushing	39	5451H2	Pulley, Transmission	
14	1551P	Washer 13/32 x 13/16 x 11 Ga.	40	3003P	*Hex Bolt 1/4 - 20 x 3/4	
15	1551P	Washer 13/32 x 13/16 x 11 Ga.	41	1003P	Lockwasher 1/4	
16	2762R	Spring Washer	42	3341P	*Fin. Hex Bolt 3/8 - 24 x 1	
17	0666P	Parking Brake Yoke	43	1813P	Washer 13/32 x 13/16 x 16 Ga.	
18	175H	Roll Pin	44	646P	*Hex Nut 3/8 - 24 UNC	
19	634A887	Lock Bracket Assembly	45	8142H	Roll Pin	
20	2221R	Parking Brake Spacer	46	3022P	*Hex Bolt 3/8 - 16 x 7/8	
21	6492H	Seal Washer	47	1004P	Lockwasher 3/8	
22	4379H	Handle Grip	48	3164P	Full Hd. Machine Screw - Undercut 3/8 - 18 x 3/4	
23	634A241	Parking Lock Handle Assembly	49	59	11P	Sq. Neck Carriage Bolt 1/4 - 20 x 5/8
24	7810H	Grisco Centerlock Nut 3/8 - 24 UNF	50	603P	*Hex Nut 1/4 - 20 UNC	
25	626A305	Brake Rod Assembly	51	3159P	*Hex Bolt 5/16 - 18 x 7/8	
26	634A167	Brake Band Assembly	52	1085H	Locknut 5/16 - 18 UNC	
27	634A168	Brake Bracket Assembly	53	3244P	*Hex Bolt 1/4 - 20 x 5/8 Gr. 5	
28	9204H	Lock Nut 1/2 - 20 UNF	54	8071H	Hub Nut 1/4 - 28 UNF	
29	214J	Brake Drum	55	3328P	Hex Hd. Mach. Screw 6 - 32 x 1	
30	634A809	Brake Arm Assembly	56	1567P	Washer 5/32 x 3/8 x 20 Ga.	
31	9858M1	Woodruff Key	57	562P	Centerlock Nut 6 - 32 UNC	
32	9398R	Clutch Rod	58	1802P	Washer 13/32 x 5/8 x 11 Ga.	
33	2514P	Cotter Pin 1/4 x 1				
34	6489H	Spring				
35	1587P	*Washer 17/32 x 1 - 1/16 x 21 Ga.				
36	4839M	Retainer Spring				
36A	644L	Hose Shield				

\*STANDARD HARDWARE - PURCHASE LOCALLY

### REPAIR PARTS

20T GARDEN TRACTOR-MODEL NO. T9329AR

SCHEMATIC DIAGRAM



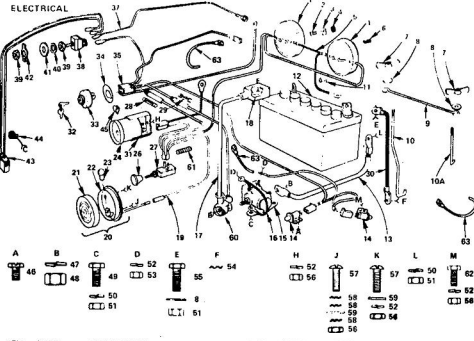
POSITION	CIRCUIT
OFF	NONE
RUN	B-R-I-A
START	B-R-I-S

WIRING CLIPS AND CABLE TIES

If Clips or Ties were removed for servicing of unit, they should be replaced to properly secure your wiring.

### REPAIR PARTS

20T GARDEN TRACTOR-MODEL NO. T9329AR

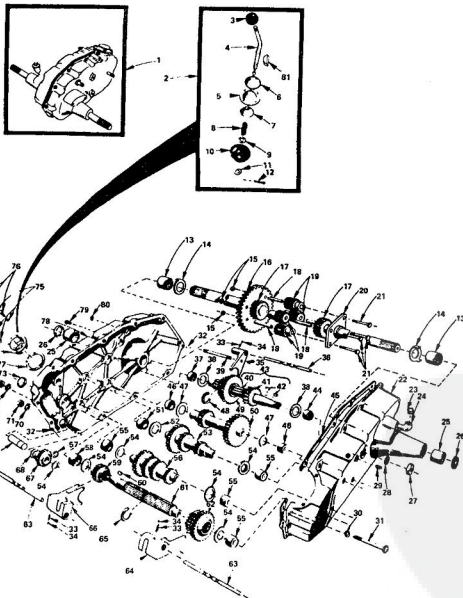


KEY NO.	PART NO.	DESCRIPTION	KEY NO.	PART NO.	DESCRIPTION
1	8452R	Headlight	33	2683R	Ignition Switch
2	5554P	Phillips Pan Hd. Thd. Cutting Screw No. 10 - 16 x 1/2	34	8868R	Terminal Identifier
3	8780H	Mounting Clip	35	1492J	Wire Harness, Main
4	8784H1	Rubber Spacer	37	8868R	Wire, Ground Lift Switch
5	8231R	Headlight Ground Wire	38	566P	Switch, Elec. Lft
6	8197H	Hose	39	566P	Hex Nut, Size 7/16 - 32 NS - 2A
7	3748M	Washer Nut 1/4 - 20 UNC	40	7318P	Lockwasher, Internal Tooth
8	1506P	Washer 9/32 x 5/8 x 16 Ga.	41	1818P	Washer 15/32 x 11/16 x 18 Ga.
9	7955R	Battery Clamp	42	8320R	Switch Frame
10	2688R	Battery Bolt	43	8868R	Lift Motor Harness
10A	881	Terminal Connector	44	5320R	Clc. Wire
11	4171R	Insulated Clip	45	8815R	Clc. Wire
12	228J	Battery Cable	45	5354P	Clc. Wire
13	2235R	Cable - Solenoid to Start.	47	1003P	Stripped Hex Indented Hd. Self Tapping Screw No. 10 - 24 x 3/8 Type 1
14	7755R	Solenoid	48	538P	Lockwasher 5/16
15	7754H	Solenoid	48	538P	*Hex Jam Nut 5/16 - 24 UNF
16	8027R	Wire - Ground to Solenoid	49	3115P	*Hex Bolt 1/4 - 20 x 5/8
17	116J	Battery Cable	50	1002P	*Lockwasher 1/8
18	225J	Terminal Connector	51	1003P	*Hex Nut 1/4 - 20 UNC
19	8033R	Light Harness	52	1006P	*Lockwasher No. 10
20	8085H	Lens - Taillight	53	1003P	*Hex Nut No. 10 - 32 UNF
21	8292H	Lens - Taillight	54	1402P	*Ext. Tooth Lockwasher 3/8
22	8253H	Bulb No. 1895 2 Candle Power	55	505P	*Hex Bolt 1/4 - 20 x 3/4
23	8291H	Bulb No. 1895 2 Candle Power	55	505P	*Hex Nut No. 10 - 24 UNC
24	7733R	Maintenance Meter	57	1003P	*Ext. Tooth Lockwasher No. 10
25	7734R	Light Switch Knob	58	1404P	*Hex Bolt 7/32 x 1 1/2 x 18 Ga.
26	7733R	Light Switch	59	1504P	*Solenoid Terminal Cover
28	2212R	Fuse - 15 Amp.	60	51J	Solenoid Terminal Cover
29	6247R	Maintenance Meter Bracket	61	1003P	Cable Tie
30	2753R	Battery Cable - Ground	62	3218P	Hex Hd. Mech. Screw No. 10 - 24 x 1/2
31	8066P	Maintenance Meter Bracket	63	1003P	Cable Tie
32	7552H	Key Set			*STANDARD HARDWARE-PURCHASE LOCALLY

### REPAIR PARTS

20T GARDEN TRACTOR-MODEL NO. T9329AR

TRANSAXLE



### REPAIR PARTS

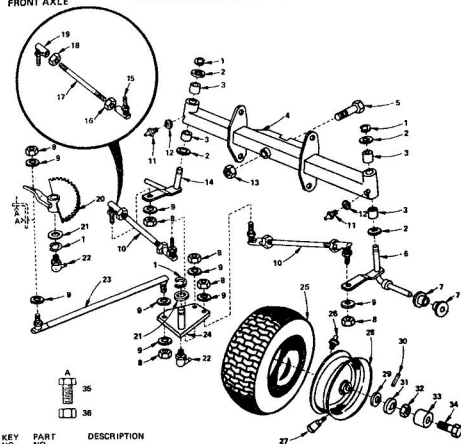
20T GARDEN TRACTOR-MODEL NO. T9329AR

TRANSAXLE

KEY NO.	PART NO.	DESCRIPTION	KEY NO.	PART NO.	DESCRIPTION
1	633A92	Transaxle Assembly Less Brake Drum & Shift Lever (Inc. Key No's. 12 thru 80)	44	8115M	Needle Bearing
2	633A82	Gear Shift Lever Assembly (Inc. Key No's. 3 thru 12 and 81)	45	6275H	Gasket - Gearcase
3	6386H	Control Knob	46	8117M	Needle Bearing
4	9635R	Gear Shift Lever	47	7396H	Thrust Bearing Race
5	633A85	Gear Shift Bolt Cover and Pin	48	6270H	Snap Ring - Crescent Type
6	9013R	Gear Shift Cap	49	633A14	High - Low Range Gears and Hub
7	8178H1	Shift Lever Guide Ball	50	633A33	4th Reduction Shaft and Gears
8	4094H	Spring	51	7395H	Needle Bearing
9	1803P	*Washer 15/32 x 5/8/64 x 16 Ga.	52	2395H	2nd Reduction Shaft and Gears
10	8105R	Shift Mechanism Seal	53	633A31	Thrust Bearing Race
11	1525P	Washer 9/16 x 5/16 x 11 Ga.	54	1370H	Needle Bearing
12	2505P	Center 1/8 x 3/4	55	4895H	Needle Bearing
13	2039R	Needle Bearing	56	83A20	Speed Change Gear and Shaft
14	6268H	Axle Thrust Washer	57	5001P	E-Ring
15	7810H	Centerlock Gripsco Nut 3/8 - 24 UNF	58	4894H	Needle Bearing
16	8662H	Front Drive Gear	59	6201H	Low Speed Pinion
17	633A13	Axle Shaft and Gear	60	8850M1	Woodruff Key
18	6292H1	Beaking - Differential Pinion	61	6218H	Input Shaft
19	8657H	Differential Pinion	62	633A11	Intermediate and High-Speed Pinions
20	6263H1	Differential Carrier	63	6219H	Shift Fork Shaft
21	3056P	Hex Bolt - 24 x 3 - 1/4 1" Thread Length	64	4210R	Shift Fork - L.H.
22	633A89	Gear Case and Bearings - L.H.	65	4922H	Snap Ring - Crescent Type
23	4002P	Pipe Plug 1/2 - 14 N.P.T.	66	6202H	Shift Fork - R.H.
24	4003P	SB Street Elbow 1/2 - 14 N.P.T.	67	1153R	Reverse Idler Gear
25	8920R	Sintered Iron Bearing	68	7392H	Reverse Idler Shaft
26	7392R	Oil Seal	69	7384H	Reverse Idler Thrust Washer
27	6204H	Lock Nut	70	1167R	Sealing Washer
28	6271H	Oil Seal	71	6419	*Hex Jam Nut 7/16 - 20 UNF
29	4001P	Pipe Plug 1/4 - 18 N.P.T.	72	604P	*Hex Nut 5/16 - 18 UNC
30	1001P	Lockwasher 5/16 Extra Heavy	73	6270H	Oil Seal
31	3087P	*Hex Bolt 5/16 - 18 x 1 - 1/2 G 5	74	75J	Gear Shift Gate
32	6271H	Down Pin	75	1003P	*Lockwasher 5/16
33	6272H	Spring - Shift Fork Detent	76	2195P	*Hex Bolt 5/16 - 18 x 7/8
34	7395M	Steel Pin	77	6274H	Gasket - Shift Bolt Cover
35	6200H	High - Low Range Shift Fork Shaft	78	633A10	Gear Case, Reverse Idler Shaft and Bearings R.H.
36	6217H	High - Low Range Shift Fork Shaft	79	8655H	Pressure Relief Valve
37	8118M	Needle Bearing	80	6266H	Oil Seal
38	6266H	Thrust Bearing Race	81	7835M	Woodruff Key
39	6215H	High - Low Range Shift Shaft			*STANDARD HARDWARE-PURCHASE LOCALLY
40	6211H	3rd Reduction Gear Shaft			
41	8659H	4th Reduction Pinion			
42	2229M	Woodruff Key			
43	633A32	3rd Reduction Shaft and Gear (Inc. Key No's. 40 - 41 & 42)			

### REPAIR PARTS

20T GARDEN TRACTOR-MODEL NO. T9329AR



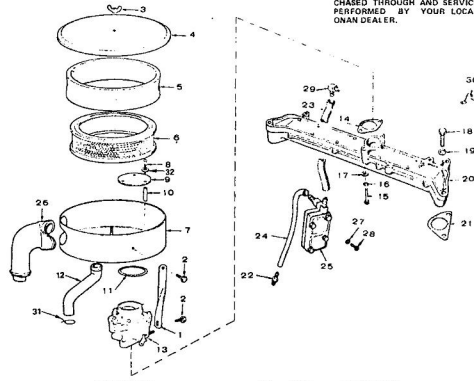
KEY NO.	PART NO.	DESCRIPTION	KEY NO.	PART NO.	DESCRIPTION
1	6000P	E-Ring	22	6842M	Grease Fitting
2	1528P	Washer 13/16 x 1 - 1/4 x 14 Ga.	23	7517B	Drag Link and Joints
3	1359H	Bearing	24	634AB9	Steering Ball Crank Weldment
4	634A621	Front Axle w/Bearings (Inc. Key No. 3)	25	3835R	Front Tire 18 x 6.50-5
5	3234P	Hex Bolt 5/8 - 11 x 5 Grade 5	26	6855M	Grease Fitting 1/4 - 28 Taper Thrd.
6	634A277	Spindle Complete - R.H.	27	755R	Tire Valve
7	8240H	Flanged Bearing	28	3635R	Front Wheel and Bearings
8	7810H	Gripco Locknut 3/8 - 24 UNF	29	165R	Wear Washer
9	2615R	Hardened Washer	30	8789H	Roll Pin 5/32 x 1 - 1/2 x 16 Ga.
10	7838R	Tie Rod and Joints (Inc. Key No's 16, 18, 17, 18 & 19)	31	9715H	Dist Cap Cover
11	6955M	Grease Fitting	32	4821H	Elastic Nut 3/4 - 16 UNF
12	1955P	Washer 5/8 x 1 1/2 x 14 Ga.	33	8715H	Dist Cap Cover
13	4764H	Hoglock Nut 5/8 - 11 UNC	34	3000P	*Hex Bolt 5/8 - 18 x 1/2
14	634A278	Spindle Complete - L.H.	35	3441P	*Hex Bolt 3/8 - 24 x 1
15	8515R	Tie Rod Joint (R.H. Thread)	36	640P	*Hex Jam Nut 3/8 - 24 UNF
16	595P	*Hex Jam Nut 1/2 - 20 (L.H. Thread)			
17	634A819	Tie Rod and Nuts (Inc. Key No's 16 & 18)			
18	600P	*Hex Jam Nut 1/2 - 20 (L.H. Thread)			
19	8514R	Tie Rod Joint (L.H. Thread)			
20	634A813	Steering Gear Sector and Arm			
21	1552P	Washer 49/64 x 1 - 1/4 x 16 Ga.			

\*STANDARD HARDWARE-PURCHASE LOCALLY

### REPAIR PARTS

20T GARDEN TRACTOR-MODEL NO. T9329AR  
ONAN ENGINE-MODEL NO. N52M-GA019/9/3580B

#### FUEL SYSTEM GROUP



ALL ENGINE PARTS MUST BE PURCHASED THROUGH AND SERVICE PERFORMED BY YOUR LOCAL ONAN DEALER.

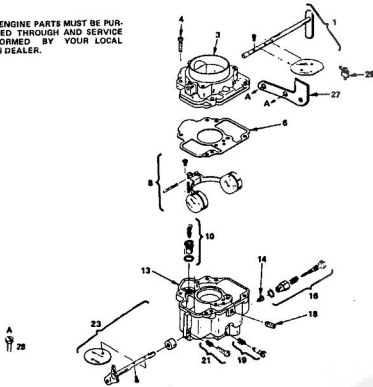
KEY NO.	PART NO.	DESCRIPTION	KEY NO.	PART NO.	DESCRIPTION
1	140-1409	Air Cleaner Support	17	526-0115	Flat Washer (11/32" I.D. x 1 1/16" O.D. x 1/16" Thick)
2	821-0009	Cap Screw, Hex Head Locking (1/4 - 20 x 3/8")	18	800-0058	Lockwasher, Spring (3/8" x 3")
3	865-0020	Wing Nut (1/4 - 20)	19	850-0050	Lockwasher, Spring (3/8")
4	140-1406	Air Cleaner Cover	20	154-0229	Insulator Manifold
5	140-1496	Wrapper	21	154-1483	Gasket
6	140-1579	Element	22	552-0295	Connector
7	140-1498	Air Cleaner Housing	23	503-0874	Fuel Line
8	815-0470	Binder Head Machine Screw w/Nylon Patch (No. 10 - 32 x 1 - 1/2")	24	503-0910	Impulse Lever
9	140-1500	Blower	25	148-1544	Fuel Pump
10	140-1501	Deflector Plate	26	143-1495	Air Inlet Tube
11	509-0145	Seal, "O" Ring	27	850-0025	Lockwasher, Spring (No. 8)
12	123-1264	Breather Hose	28	812-0075	Round Head Machine Screw (No. 8 - 32 x 1 1/4")
13	146-0271	Carburetor Assembly (See Separate Group for Components)	29	502-0310	Elbow
14	154-0733	Gasket	30	403-1490	Lifting Bracket
15	800-0035	Cap Screw, Hex Head (5/16 - 18 x 2 - 1/2")	31	503-0171	Hex Clamp
16	850-0045	Lockwasher, Spring (5/16")	32	850-0070	Lockwasher (No. 10)
				148-1552	Fuel Pump Repair Kit

### REPAIR PARTS

20T GARDEN TRACTOR-MODEL NO. T9329AR  
ONAN ENGINE-MODEL NO. N52M-GA019/9/3580B

#### CARBURETOR PARTS GROUP

ALL ENGINE PARTS MUST BE PURCHASED THROUGH AND SERVICE PERFORMED BY YOUR LOCAL ONAN DEALER.



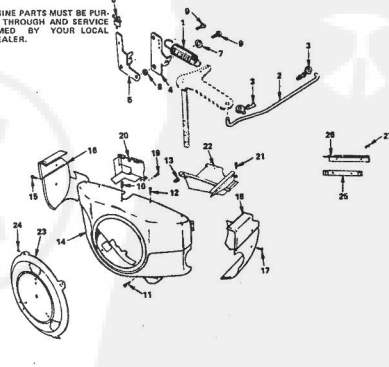
KEY NO.	PART NO.	DESCRIPTION	KEY NO.	PART NO.	DESCRIPTION
1	146-0271	Carburetor Assembly, Complete	18	146-0211	Set Screw
2	146-0290	Choke Shaft Package	19	146-0209	*Needs Package
3	146-0290	Air Inlet (Not Sold Separately)	21	146-0291	Screw Package
4	146-0294	Screw	23	146-0270	Throttle Shaft Package
6	146-0293	Gasket	27	153-0515	Bracket, Choke Cable
8	146-0282	Front Assembly Package	28	821-0002	Mounting Screw
10	146-0277	*Valve and Seat Package	29	153-0514	Calisk Clip
13	146-0238	Body (Not Sold Separately)	---	146-0220	*Gasket Kit
16	146-0238	Power Jet	---	146-0228	Repair Kit (Includes Parts Marked H)
18	146-0216	*Power Needs Package	---	---	*PARTS CONTAINED IN 146-0228 REPAIR KIT.

### REPAIR PARTS

20T GARDEN TRACTOR-MODEL NO. T9329AR  
ONAN ENGINE-MODEL NO. N52M-GA019/9/3580B

#### GOVERNOR AND AIR HOUSING GROUP

ALL ENGINE PARTS MUST BE PURCHASED THROUGH AND SERVICE PERFORMED BY YOUR LOCAL ONAN DEALER.

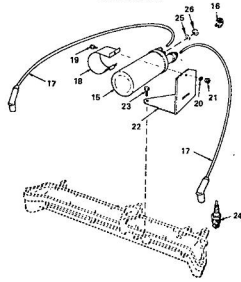
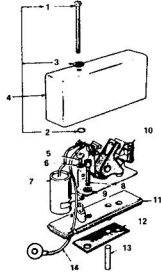


KEY NO.	PART NO.	DESCRIPTION	KEY NO.	PART NO.	DESCRIPTION
1	150-1314	Governor Spring	16	815-0261	Cap Screw, Hex Head Locking (1/4 - 20 x 7/16")
2	150-1513	Throttle Link	18	134-3443	Air Housing, Left Side
3	518-0304	Clip	17	815-0261	Cap Screw, Hex Head Locking (1/4 - 20 x 7/16")
4	150-1576	Governor Control Arm	18	134-3449	Air Housing, Right Side
5	150-1725	Governor Control Mounting Bracket	19	815-0261	Cap Screw, Hex Head Locking (1/4 - 20 x 7/16")
6	153-0514	Cable Clip	20	134-3646	Housing Support, Left Side
7	526-0214	Flat Washer (1 7/8" I.D. x 1 1/2" O.D. x 1/16" Thick)	21	821-0015	Cap Screw, Hex Head Locking (1/4 - 20 x 5/8")
8	150-1269	Bushing	22	134-3691	Housing Support, Right Side
9	821-0010	Hex Head Cap Screw, Locking (1/4 - 20 x 1/2")	23	134-3589	Housing, Screen
10	815-0261	Cap Screw, Hex Head Locking (1/4 - 20 x 7/16")	24	815-0235	Cap Screw, Hex Head w/ET (No. 14 x 1 1/2")
11	821-0010	Cap Screw, Hex Head Locking (1/4 - 20 x 1/2")	25	134-3510	Support Mounting Bracket
12	815-0474	Cap Screw, Tapping Hex Head (1/4 x 1 1/2")	26	134-3511	Housing Support, Lower
13	870-0107	Nut, Spring (No. 14)	27	821-0009	Cap Screw, Hex Head Locking (1/4 - 20 x 3/8")
14	134-3747	Air Housing			

**REPAIR PARTS**

20T GARDEN TRACTOR-MODEL NO. T9329AR  
ONAN ENGINE-MODEL NO. N52M-GA019.9/3580B

**IGNITION AND BREAKER BOX GROUP**



ALL ENGINE PARTS MUST BE PURCHASED THROUGH AND SERVICE PERFORMED BY YOUR LOCAL ONAN DEALER.

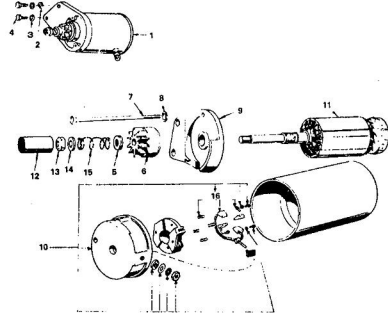
KEY NO.	PART NO.	DESCRIPTION
1	160-1210	Breaker Box (Inc. Parts Marked *)
2	812-0108	"Rivet" Head Machine Screw (No. 10-24 x 1-1/2")
3	509-0065	*Retainer
4	526-0008	*Flat Washer (1.3164" I.D. x 7/16" O.D. x 1/32" Thick)
5	160-1222	*Cover
6	815-6268	*Cap Screw, Slotted (No. 8 - 32 x 5/16")
7	850-0225	*Lockwasher - Spring (No. 8)
8	312-0186	*Condenser
9	802-0034	*Cap Screw Socket Head (1/4" - 20 x 3/4")
10	850-0038	*Lockwasher, Spring (1/4")
11	160-1183	*Point Set
12	160-1150	*Base
13	160-1151	*Plunger
14	336-2378	*Lead (Breaker Box to Coil)

KEY NO.	PART NO.	DESCRIPTION
15	166-0035	Coil
16	166-0004	Cap Part of Ignition Co.
17	SPARK PLUG CABLE	
18	167-1596	"18"
19	162-0288	*Clamp
20	890-0040	Cap Screw, Hex Head Locking (1/4" - 20 x 1/2")
21	892-0001	Lockwasher, Spring (1/4")
22	168-0680	Hex Nut (1/4" - 20)
23	815-0281	Cap Screw (1/4" - 20 x 9/16)
24	167-0291	Spark Plug
25	850-2065	Washer - Primary Terminal
26	166-0264	Ignition Coil Nut (Primary Terminal)
	160-1213	Tank-up Kit (Inc. Points and Condenser)
		*PARTS INCLUDED IN 160-1210 BREAKER BOX

**REPAIR PARTS**

20T GARDEN TRACTOR-MODEL NO. T9329AR  
ONAN ENGINE-MODEL NO. N52M-GA019.9/3580B

**STARTER PARTS GROUP**



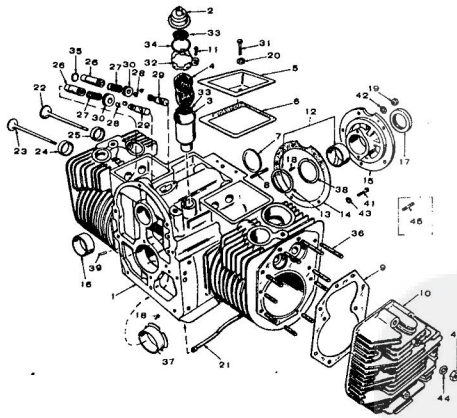
ALL ENGINE PARTS MUST BE PURCHASED THROUGH AND SERVICE PERFORMED BY YOUR LOCAL ONAN DEALER.

KEY NO.	PART NO.	DESCRIPTION
1	191-1205	Starter (Complete)
2	526-0113	Flat Washer (1.1122" I.D. x 1" O.D. x 3/32" Thick)
3	850-0045	Lockwasher, Spring (5/16")
4	800-0028	Cap Screw, Hex Head
5	191-1047	Spacer
6	191-1047	Spacer
7	191-1157	Cap Screw, Hex Head
8	050-0040	Lockwasher, Spring (1/4")
9	191-1223	Cap Assembly
10	191-1158	Armature
11	191-1154	Armature
12	191-1034	Dust Cover
13	191-1046	Flat Washer
14	191-1046	Flat Washer
15	191-1036	Spring
16	191-1222	Brush, Spring and Stud Kit

**REPAIR PARTS**

20T GARDEN TRACTOR-MODEL NO. T9329AR  
ONAN ENGINE-MODEL NO. N52M-GA019.9/3580B

**CYLINDER BLOCK GROUP**



ALL ENGINE PARTS MUST BE PURCHASED THROUGH AND SERVICE PERFORMED BY YOUR LOCAL ONAN DEALER.

**REPAIR PARTS**

20T GARDEN TRACTOR-MODEL NO. T9329AR  
ONAN ENGINE-MODEL NO. N52M-GA019.9/3580B

**CYLINDER BLOCK GROUP**

KEY NO.	PART NO.	DESCRIPTION	KEY NO.	PART NO.	DESCRIPTION
1	110-2666	Cylinder Block Assembly (Inc. Parts Marked *)	29	VALVE TAPPET	
2	123-0964	Breather Cap and Valve	30	115-00005	Standard
3	123-0952	"Breather Tube	31	110-0094	Valve Retainer
4	123-0965	Ball Pin	32	800-0011	Hex Head Cap Screw (1/4" - 20 x 2")
5	110-1654	Valve Compartment Cover	33	123-0851	Breather Cap Clamp
6	110-1720	Valve Cover Gasket	34	123-0958	Breather Screen
7	517-0068	*Expansion Plug	35	509-0017	Breather Tube Seal
8	520-0736	*Stud	36	110-0068	*Intake Valve Guide Gasket
9	110-1731	Head Gasket	37	CYLINDER HEAD STUD	
10	110-2975	Cylinder Head	520-0717	3/8 x 1 - 7/8"	
11	809-0205	Round Head Self Tapping Screw (No. 8 x 3/4")	520-0773	3/8 x 2 - 5/16"	
12	CRANKSHAFT BEARING, REAR		101-0402	Standard	
	101-0402	Standard	101-0432	Standard	
	101-0402-02	.002" Undersize	101-0432-02	.002" Undersize	
	101-0402-10	.010" Undersize	101-0432-10	.010" Undersize	
	101-0402-20	.020" Undersize	101-0432-20	.020" Undersize	
	101-0402-30	.030" Undersize	101-0432-30	.030" Undersize	
13	104-0675	*Thrust Washer	38	194-0776	*Crankshaft Shim
14	101-0415	*Bearing Plate Gasket	39	516-0141	*Alignment Pin
15	101-0439	*Bearing Plate, Rear	40	194-0091	*Hex Nut (3/8" - 24)
16	101-0402	*Crankshaft Bearing	41	800-0046	*Hex Head Cap Screw (3/8" - 16 x 1/2")
17	809-0041	*Crankshaft Oil Seal	42	526-0251	*Flat Washer #86 (1.0 x .588" O.D. x .135" Thick)
18	516-0072	*Bearing Stop Pin	43	526-0066	*Flat Washer, Copper (25.64" I.D. x 8/16" O.D. x 1/16" Thick)
19	194-0091	*Hex Nut (3/8" - 24)	44	526-0250	*Flat Washer, Steel (.407" I.D. x 1" O.D. x 1/8" Thick)
20	526-0063	*Flat Washer, Copper (17/64" I.D. x 7/16" O.D. x 1/32" Thick)	45	520-0820	*Stud (Wet Hole)
21	120-3680	*Oil Tube			
22	110-1514	Intake Valve			
23	110-1719	Exhaust Valve			
24	VALVE SEAT INSERT, EXHAUST				
	110-1718	Standard			
	110-1718-01	.001" Oversize			
	110-1718-02	.002" Oversize			
	110-1718-05	.005" Oversize			
	110-1718-10	.010" Oversize			
	110-1718-20	.020" Oversize			
25	VALVE SEAT INSERT, INTAKE				
	110-1503	Standard			
	110-1503-02	.002" Oversize			
	110-1503-05	.005" Oversize			
	110-1503-10	.010" Oversize			
	110-1503-20	.020" Oversize			
26	110-1529	*Valve Guide			
27	110-0528	Valve Spring			
28	110-0639	Valve Spring Lock			

**SERVICE KITS AND MISCELLANEOUS**

PART NO.	DESCRIPTION
98-2629	Decal Kit
168-0142	Engine Gasket Kit
168-0121	Carbon Removal Kit
100-1213	Ignition Tuning Kit
522-0300	Engine Overhaul Kit

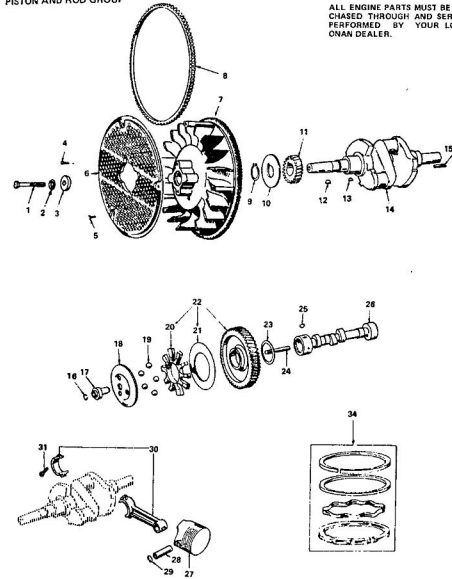


### REPAIR PARTS

20T GARDEN TRACTOR—MODEL NO. T9329AR  
ONAN ENGINE—MODEL NO. N52M-GA019.9/3580B

CRANKSHAFT, FLYWHEEL, CAMSHAFT,  
PISTON AND ROD GROUP

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### REPAIR PARTS

20T GARDEN TRACTOR—MODEL NO. T9329AR  
ONAN ENGINE—MODEL NO. N52M-GA019.9/3580B

CRANKSHAFT, FLYWHEEL, CAMSHAFT,  
PISTON AND ROD GROUP

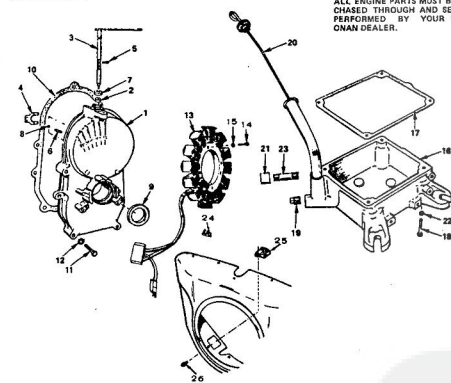
KEY NO.	PART NO.	DESCRIPTION
1	104-0170	Cap Screw (Special)
2	850-0055	Lockwasher, Spring (7/16")
3	526-0267	Flat Washer (15/16" I.D. x 1-1/2" O.D. x .31" Thick)
4	821-0014	Cap Screw, Hex Head Locking (5/16-18 x 1/2")
5	815-0400	Screw, Truss Hd. Mach. w/Ext. Lw. (1/4-20 x 1-1/2")
6	134-3212	Flywheel, Guard
7	134-2740	Flywheel (Inc. Ring Gear and Magnet)
8	104-0179	Ring Gear
9	518-0014	Retaining Ring
10	104-0043	Retaining Washer
11	104-0032	Gear
12	515-0237	Flywheel Key
13	515-0001	Gear Key
14	104-1048	Crankshaft
15	515-0103	Key
16	160-0078	Retaining Ring
17	160-1519	Hub
18	160-1520	Cup
19	510-0015	Flyball
20	160-1257	Spacer
21	160-0077	Plate
22	106-0332	Gear Assembly (Inc. Plate and Spacer)
23	105-0054	Thrust Washer
24	160-0075	Center Pin
25	515-0001	Key
26	105-0382	Camshaft (Includes Center Pin)
27	PISTON AND RING SET	Standard
		112-0158-05 .005" Oversize
		112-0158-10 .010" Oversize
		112-0158-20 .020" Oversize
		112-0158-30 .030" Oversize
		112-0158-40 .040" Oversize
28	110-0080	Piston Pin
29	018-0294	Retaining Ring
30	CONNECTING ROD	Standard
		114-0295-10 .010" Undersize
		114-0295-20 .020" Undersize
		144-0295-30 .030" Undersize
31	890-0038	Rod Cap Bolt
34	RING SET	Standard
		113-0203-05 .005" Oversize
		113-0203-10 .010" Oversize
		113-0203-20 .020" Oversize
		113-0203-30 .030" Oversize
		113-0203-40 .040" Oversize

### REPAIR PARTS

20T GARDEN TRACTOR—MODEL NO. T9329AR  
ONAN ENGINE—MODEL NO. N52M-GA019.9/3580B

OIL BASE AND GEARCASE GROUP

ALL ENGINE PARTS MUST BE PURCHASED THROUGH AND SERVICE PERFORMED BY YOUR LOCAL ONAN DEALER.



KEY NO.	PART NO.	DESCRIPTION	KEY NO.	PART NO.	DESCRIPTION
1	103-0498	Gearcase Assembly (Inc. Parts Marked *)	13	191-1218	Stator
2	510-0105	*Bearing	14	813-0108	Round Head Machine Screw (No. 10-32 x 1-1/2")
3	150-1410	*Shaft and Arm	15	850-0030	Lockwasher (No. 10)
4	150-1187	*Yoke	16	102-0789	Oil Base
5	815-0046	*Flat Head Machine Screw (No. 8-32 x 3/8")	17	102-0894	Oil Base Gasket
6	516-0130	*Dowel Pin	18	800-0965	Hex Head Cap Screw (3/8-16 x 1-1/4")
7	509-0038	*Oil Seal	20	123-1392	Cap and Indicator
8	510-0014	*Bolt	21	506-0198	Oil Drain Cap, Plug (1/2")
9	509-0040	*Oil Seal	22	850-0950	Lockwasher (3/8")
10	103-0498	Gasket	23	505-0736	Oil Drain Plug, Plug (1/2 x 3-1/2")
11	CAP SCREW, HEX HEAD	5/16-18 x 2-1/4"	24	187-0218	Support Alternator Leads
		8/16-18 x 2-1/4"	25	191-1206	Regulator, Voltage (15 Amp)
12	526-0065	Flat Washer, Copper (21/64" I.D. x 9/16" O.D. x 1/16" Thick)	26	821-0010	Hex Head Cap Screw (1/4-20 x 1/2")

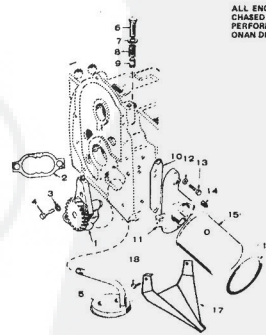
\* Parts included in 103-0498 Gearcase Assembly

### REPAIR PARTS

20T GARDEN TRACTOR—MODEL NO. T9329AR  
ONAN ENGINE—MODEL NO. N52M-GA019.9/3580B

OIL SYSTEM GROUP

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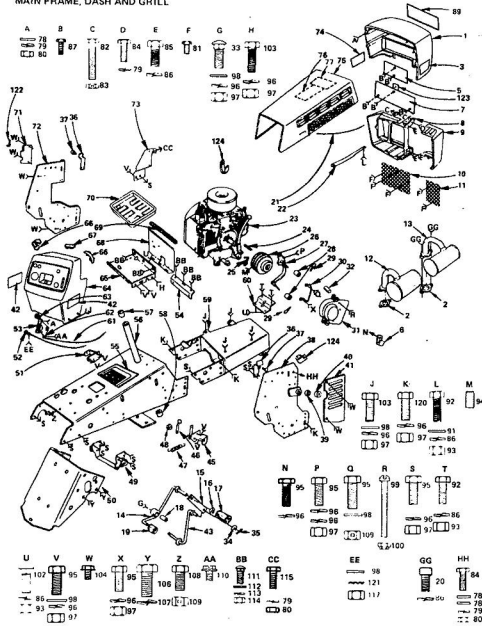


KEY NO.	PART NO.	DESCRIPTION
1	120-0491	Oil Pump
2	120-0101	Pump Gasket Kit
3	850-0040	Lockwasher, Spring (1/4")
4	801-0007	Cap Screw, Hex Head (1/4-20 x 1")
5	120-0713	Oil Intake Cup
6	801-0050	Cap Screw, Hex Head (3/8-24 x 1")
7	526-0066	Flat Washer, Copper (15/64" I.D. x 9/16" O.D. x 1/16" Thick)
8	120-0140	Springs
9	120-0398	By Pass Valve
10	122-0321	Gasket
11	122-0320	Oil Filter Adapter
12	506-0055	Flat Washer, Copper (21/64" I.D. x 9/16" O.D. x 1/16" Thick)
13	800-0028	Cap Screw, Hex Head (5/16-18 x 1")
14	506-0057	Plug (1/8")
15	123-0489	Oil Filter
16	123-0347	Oil Filter Air Seal
17	122-0322	Oil Drain
18	815-0194	Cap Screw Hex Head W/E (No. 10-32 x 3/8")

**REPAIR PARTS**

20T GARDEN TRACTOR-MODEL NUMBER T9329BR

MAIN FRAME, DASH AND GRILL



**REPAIR PARTS**

20T GARDEN TRACTOR-MODEL NUMBER T9329BR

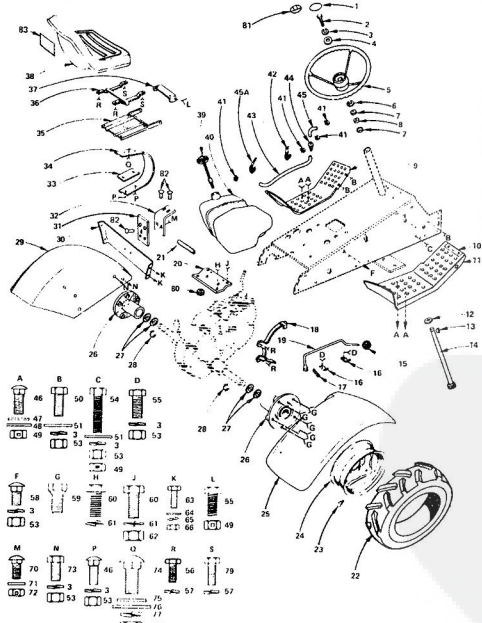
MAIN FRAME, DASH AND GRILL

KEY NO.	PART NO.	DESCRIPTION	KEY NO.	PART NO.	DESCRIPTION
1	911J	Grill - Upper	66	1998R	Clip - Dashboard
2	116E1	Gasket - Exhaust Manifold	67	8571R	Clip - Dashboard, Center
3	159J1	Decal	68	107J	Battery Heat Shield
4	290J	Grill Panel - Upper	69	7874R	Hood Seal
5	870J	Capic Clip	70	8858R	Battery Tray
6	291J	Grill Panel - Lower	71	86J	Cover - L.H.
7	998J	Grill - Lower	72	1182J	Bracket - Battery Support - L.H.
8	7538R	Grill Side	73	1181J	Bracket - Receiver
9	2614R	Grill Screen - L.H.	74	1590J	Decal
10	2612R	Grill Screen - R.H.	75	634A50T	Mount Assy.
11	1157J	Muffler - Front	76	8028R	Decal - Instruction
12	1156J	Muffler - Rear	77	8080R	Decal - Wiring
13	634A501	Clutch Pedal	78	1006P	*Washer 9/32 x 5/8 x 18 Ga.
14	89J	Link	79	1002P	*Lockwasher 1/4"
15	92J	Push-On Nut	80	503P	*Hex Nut 1/4" - 20 UNC
16	93J	Rubber Pad	81	5501P	Phillips Pan Hd. Thd. Self Tap 10 - 24 x 3/8 Type 1
17	91J	Pivot Spacer	82	3257P	*Hex Bolt 1/4" - 20 x 1 - 1/2 Grade 5
18	207J	Foot Pedal	83	1605H	*Locknut 1/4" - 20 UNC
19	236P	Soc. Hd. Cap Screw 5/16 - 18 x 3/4	84	3003P	*Hex Bolt 1/4" - 20 x 3/4
20	8058R	Grill Cable	85	3010P	*Hex Bolt 5/16 - 18 x 3/4
21	873J	Grill Brace	86	1003P	*Lockwasher 5/16"
22	18.9056803	Engine, Orion 20 H.P.	87	5554P	Phillips Pan Hd. Thd. Self Tap 10 - 18 Hi-Lo Thd. x 1/2 Blunt Point
23	9398E	So. Key 1/4 x 2	88	245J	Decal - Room
24	8245R	Belt Retainer Finger	89	1537P	*Washer 11/32 x 11/16 x 18 Ga.
25	634A925	Engine Pulley (Inc. Key No. 84)	90	3011P	*Hex Bolt 5/16 - 18 x 1
26	634A527	Belt Guide Weldment	91	804P	Hex Forged Socket Headless Set Screw CF 5/16 - 18 x 1/2 - Nylock
27	8704H1	Retainer Spring	92	3002P	*Hex Bolt 3/8" - 16 x 1
28	4503M	Belt Spring	93	5004P	*Lockwasher 3/8"
29	9011H	Belt Guard Weldment	94	501P	*Hex Nut 3/8" - 16 UNC
30	634A559	Belt Guard Weldment	95	1533P	*Washer 13/32 x 7/16 x 18 Ga.
31	8245R	Carriage Bolt 3/8" - 16 x 2 - 1/4	96	3154P	Phi. Fil. Hd. Machine Screw 1/4" - 20 x 2 - 1/4
32	50P	Carriage Bolt 3/8" - 16 x 2 - 1/4	97	347H	Hexlock Nut 1/4" - 20 UNC
33	18A58	*Cotter Pin 1/8 x 1"	98	67P	*Carriage Bolt 5/16 - 18 x 3/4
34	634A800	Hood Latch	99	8857P	*Hex Washer Hd. Thd. Cutting Screw 1/4" - 20 x 1/2 x 1-1/4
35	8457R	Support Bumper	100	3035P	*Hex Bolt 7/16 - 14 x 1 - 1/4
36	634A903	Battery Support Bracket (Inc. Key 30)	101	1001P	*Lockwasher 7/16"
37	7756R	Cap	102	1008P	*Lockwasher 7/16"
38	8008R	Cap	103	3021P	*Locknut 3/8" - 16 UNC
39	7798R	Cover - R.H.	104	8857P	*Hex Washer Hd. Thd. Cutting Screw 1/4" - 20 x 1/2 x 1-1/4
40	1420J	Decal - 20	105	3036P	*Hex Bolt 7/16 - 14 x 1 - 1/4
41	634A502	Link Weldment	106	1009P	*Lockwasher 7/16"
42	634A285	Hanger Weldment R.H. - Front	107	3021P	*Locknut 3/8" - 16 UNC
43	7944R	Belt Tightener Arm	108	3034H	Hex Sil. Hd. Machine Screw w/Semts
44	7948R	Support Bumper	109	6065P	Hex Sil. Hd. Machine Screw w/Semts
45	7810H	Locknut 3/8" - 24 UNF	110	53P	Int. Tooth Lockwasher 10 - 32 x 1/4
46	634A814	Hanger Weldment - Rear	111	1533P	*Washer 7/32 x 7/16 x 18 Ga.
47	634A787	Drawer and Weldnuts	112	1006P	*Lockwasher No. 10
48	634A355	Hanger Weldment - L.H. - Front	113	505P	*Hex Nut 1/4" - 24 UNC
49	7931R	Choke Control	114	3114P	*Hex Bolt 1/4" - 20 x 1/2
50	1510J	Throttle Control (Inc. Key 61, 62 & 63)	115	515P	*Hex Nut 3/8" - 24 UNF
51	97J	Alductor Bar	120	3137P	*Hex Bolt 3/8" - 16 x 1 - 1/4 Gr. 5
52	1566J	Decal (Shift Pattern)	121	1420P	Ext. Tooth Lockwasher - 3/8"
53	634A888	Decal Assy. (Inc. Key 57 & 58)	122	9022	Rubber Erging
54	8468H	Bearing	123	6768H	Mounting Clip
55	4166H	Engine Mount Assy.	124	2751R	Mounting Clip
56	634A908	Engine Mount Assy.	*STANDARD HARDWARE PURCHASE LOCALLY		
57	96J	Throttle Wire & Casing			
58	8254R	Throttle Control Link			
59	9903R	Throttle Control Link			
60	1550J	Throttle Control Link			
61	634A903	Battery Support			
62	106J	Battery Support			

**REPAIR PARTS**

20T GARDEN TRACTOR-MODEL NUMBER T9328BR

STEERING AND FINAL DRIVE



**REPAIR PARTS**

20T GARDEN TRACTOR-MODEL NUMBER T9328BR

STEERING AND FINAL DRIVE

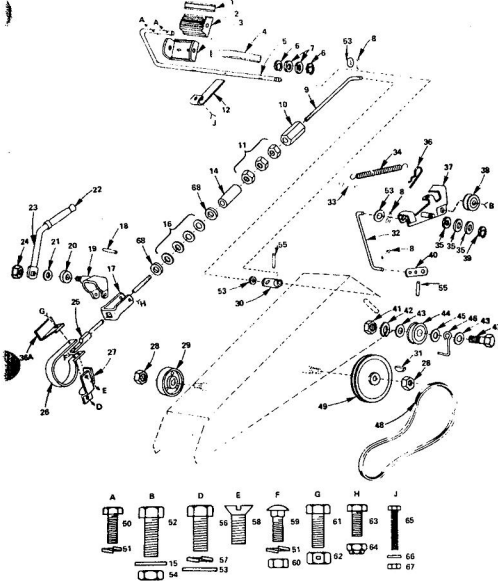
KEY NO.	PART NO.	DESCRIPTION	KEY NO.	PART NO.	DESCRIPTION
1	9719R	Steering Wheel Insert	46	61P	Sh. Nk. Shk. Car. Bolt 3/8 - 16 x 1 Gr. 5
2	3022P	*Hex Bolt 3/8" - 16 x 1	47	1513P	*Washer 13/32 x 13/16 x 18 Ga.
3	1004P	*Lockwasher 3/8"	48	1518P	*Washer 15/32 x 1 x 12 Ga.
4	1655P	*Washer 7/16 x 1 x 10 Ga.	49	5794H	Locknut 3/8 UNC
5	3644R	E-Ring	50	3025P	*Hex Bolt 3/8" - 16 x 1 - 1/4
6	5003P	E-Ring	51	1553P	*Washer 13/32 x 13/16 x 11 Ga.
7	9021H	Cap	53	501P	*Hex Nut 3/8" - 16 UNC
8	5949H	Rubber Bushing	54	2027P	*Hex Nut 3/8" - 16 x 1 - 1/2
9	7932R	Foot Rest - L.H.	55	2022P	*Hex Bolt 3/8" - 16 x 7/8
10	8000R	Decal (Attach. Clutch)	56	3010P	*Hex Bolt 5/16 - 18 x 3/4
11	7904H	Foot Rest - R.H.	57	1003P	*Lockwasher 5/16"
12	1655P	*Washer 7/16 x 1 - 1/4 x 16 Ga.	58	18P	*So. Neck Carriage Bolt 3/8 16 x 3/4
13	8058R1	Woodruff Key 3/16 x 5/8	59	1304H	Hub Bolt
14	634A276	Steering Shaft and Pinion	60	3034P	Hex Bolt 7/16 - 14 x 1
15	6344H	Control Knob	61	1001P	*Lockwasher 7/16"
16	634A276	Steering Shaft and Pinion	62	500P	*Hex Nut 7/16 - 18 UNC
17	2531P	Cotter Pin 3/16 x 1"	63	3003P	*Washer 9/32 x 5/8 x 16 Ga.
18	634A276	Steering Shaft and Pinion	64	1002P	*Lockwasher 1/4"
19	6477H	Range Shift Rod	65	503P	*Hex Nut 1/4" - 20 UNC
20	9989R	Transmission Bracket	66	18P	*Short Shoulder So. Neck Carriage Bolt 5/16 - 18 x 3/4
21	8974R	Seat Stop	67	1889H	Lock Nut 5/16 - 18 UNC
22	7568R	Rear Tire 23 x 10.50 - 12 Chevron	68	3013P	*Hex Bolt 3/8" - 16 x 3/4
23	798R	Tire Valve	69	1578P	*Washer 3/4 x 1.78 x 11 Ga.
24	3635R	Rear Wheel	70	1666P	*Washer 11/32 x 1 1/2 x 11 Ga.
25	9658R	Fender - R.H.	71	1000P	*Lockwasher 1/2"
26	634A592	Wheel Hub - Rear	72	3159P	*Hex Nut 1/2 - 12 UNC
27	7568R	Angle Thread Washer	73	8547R	Rubber Gripper
28	5845R	Retaining Ring	74	52P	Carriage Bolt 1/2 - 13 x 1 - 1/4 Gr. 5
29	9637R	Fender - L.H.	75	1578P	*Washer 3/4 x 1.78 x 11 Ga.
30	2655R	Bracket - Tail Light	76	1666P	*Washer 11/32 x 1 1/2 x 11 Ga.
31	126J	Seat Stop Bracket	77	1000P	*Lockwasher 1/2"
32	126J	Seat Stop Bracket	78	502P	*Hex Nut 1/2 - 12 UNC
33	8141H	Seat Spring Reinforcement	79	3159P	*Hex Nut 1/2 - 12 UNC
34	7888R	Seat Spring	80	8547R	Rubber Gripper
35	634A276	Seat Plate Weldment	81	2751	Steering Wheel (Incl)
36	634A532	Seat Bracket Weldment	82	124J	Rubber Bumper
37	7837R	Bracket, Seat Pivot	83	245J	Decal - Roper
38	9744R	Seat	84	245J	Decal - Roper
39	2329J	Fuel Gauge	85	210J	Warranty Label
40	7855R	Fuel Tank	86	210J	Owner's Manual
41	6999R	Fuel Line Clamp	*STANDARD HARDWARE PURCHASE LOCALLY		
42	2751R	Clip - Fuel Line			
43	897J	Fuel Line			
44	7741R	In-Line Filter			
45	903J	Fuel Line Elbow			
46	929/R	Clip - Fuel Line			

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**REPAIR PARTS**

20T GARDEN TRACTOR-MODEL NUMBER T9329BR

**BRAKE AND CLUTCH**



**REPAIR PARTS**

20T GARDEN TRACTOR-MODEL NUMBER T9329BR

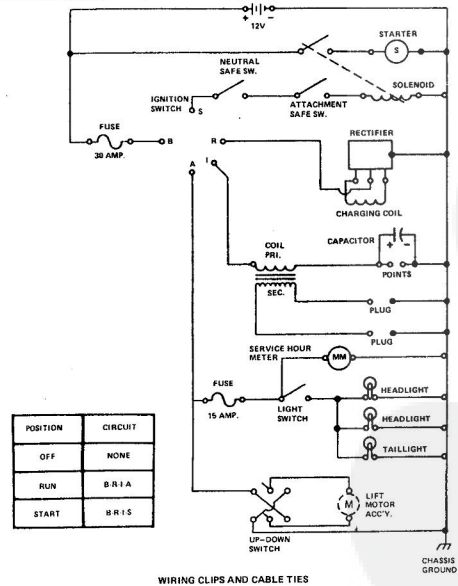
**BRAKE AND CLUTCH**

KEY NO.	PART NO.	DESCRIPTION	KEY NO.	PART NO.	DESCRIPTION
1	889R	Insert Clutch Brake	37	634A/754	Lock Washer 1/4
2	880R	Clutch Fork	38	665H	Lock Washer 5/16
3	876H	Front Pinion Bracket	39	5007P	E Ring
4	900B1	Spring	40	634A/88H	Shim Wash. Asst. Assembly
5	1114	Front Pinion Shaft	41	600P	"Hex Nut 7/16 1/4 UNC
6	5003P	E Ring	42	1001P	Lockwasher 7/16
7	1001P	Washer 21/32 x 7/8 x 1/16 Ga.	43	1548P	Full Inlet
8	2005P	Coiler Pin 1/8 x 3/4	44	665H	Full Inlet
9	2005H	Brake Rod - Front	45	1548P	Washer 489 LD x 1 1/8 x 11 Ga.
10	661FH	Turlock	46	647B1H	Ball Finger
11	501P	"Hex Nut 3/8 1/8 UNC	47	3202P	V Bolt
12	7803R	Safety Start Actuator	48	2602R	V Bolt
13	2001H	Washer	49	64612P	Pinion, Transmission
14	152FP	Washer 13/32 x 13/16 x 11 Ga.	50	3003P	"Hex Bolt 1/4 20 x 3/4
15	2763H	Spring Washer	51	1002P	Lockwasher 1/4
16	9886R	Parking Brake Yoke	52	3341P	"Pin. Hex Bolt 3/8 24 x 1
17	1701H	Roll Pin	53	1513P	"Washer 13/32 x 13/16 x 16 Ga.
18	634A/887	Lock Bracket Assembly	54	544P	"Hex Jam Nut 3/8 24 UNF
19	2721H	Parking Brake Spacer	55	8142H	Roll Pin
20	5096H	Spring Washer	56	3022P	"Hex Bolt 3/8 16 x 7/8
21	6379H	Handle Grip	57	1004P	Lockwasher 3/8
22	6379H	Handle Grip	58	2164P	"Pin. Hex Machine Screw Undercut 3/8 16 x 3/4
23	62643H1	Parking Lock Handle Assembly	59	11P	"50 Neck Carbon Steel Bolt 1/4 20 x 5/8
24	7819H	Grass Control Lock Nut 3/8 24 UNF	60	600P	"Hex Nut 1/4 20 UNC
25	62643H2	Brake Rod Assembly	61	3158P	Locknut 5/16 18 UNC
26	673A/211	Brake Band Assembly	62	1685H	"Hex Bolt 1/4 28 x 5/8 G. 5
27	62643H3	Brake Rod Assembly	63	3244P	Headlock Nut 1/4 28 UNF
28	5024H	Lock Nut 1/2 20 UNF	64	8071H	"Hex Bolt 1/4 28 x 5/8 G. 5
29	634A/889	Brake Arm Assembly	65	3326P	"Hex Hd. Mach. Screw 5/32 x 1
30	9888M1	Brake Drum	66	1562P	Washer 5/32 x 3/8 x 20 Ga.
31	9888M1	Brake Drum	67	562P	Conerlock Nut 6 32 UNC
32	9888M1	Brake Drum	68	1662P	Washer 13/32 x 5/8 x 11 Ga.
33	2514P	Cotter Pin 1/4 x 1			
34	6888H	Spring			
35	1587P	"Washer 1/2 x 1 - 1/16 x 21 Ga.			
36	6029M	Retainer Spring			
36A	5444	Moose Shield			

**REPAIR PARTS**

20T GARDEN TRACTOR-MODEL NUMBER T9329BR

**SCHEMATIC DIAGRAM**

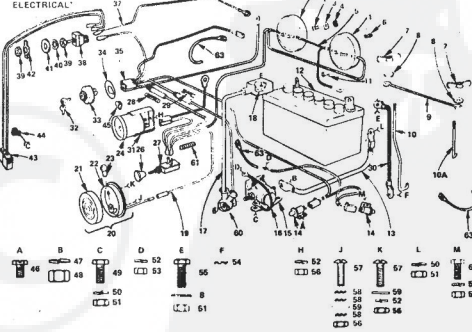


WIRING CLIPS AND CABLE TIES  
If Clips or Ties were removed for servicing of unit, they should be replaced to properly secure your wiring.

**REPAIR PARTS**

20T GARDEN TRACTOR-MODEL NUMBER T9329BR

**ELECTRICAL**



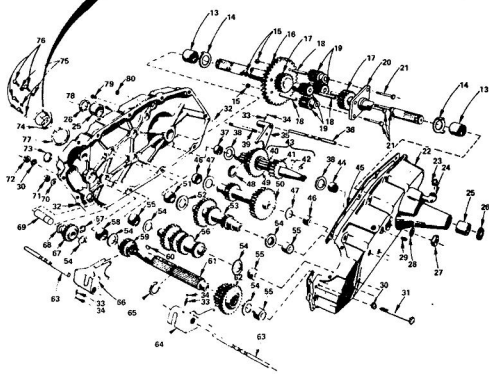
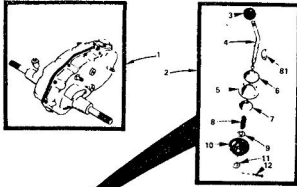
KEY NO.	PART NO.	DESCRIPTION	KEY NO.	PART NO.	DESCRIPTION
1	6452R	Headlight	33	2683R	Ignition Switch
2	5554P	Phillips Pan Hd. Thd. Cutting Screw No. 10 x 1 1/2	34	8658P	Terminal Identifier
3	8768H	Mounting Clip	37	9608R	Wire, Ground Lift Switch
4	8768H1	Rubber Spacer	38	8984R	Switch, Elec. Lift
5	8031R	Headlight Ground Wire	39	566P	"Hex Nut 3/16 32 NS 2A
6	9197H	Insulator	40	7139R	Lockwasher, Internal Tooth
7	3748M	Wing Nut 1/4 x 20 UNC	41	1518P	Washer 1/2 x 1 1/16 x 16 Ga.
8	1506P	Washer 9/32 x 5/8 x 16 Ga.	42	9348R	Switch Plate
9	7954R	Battery Clamp	43	8984R	Lift Motor Harness
10	2685R1	Battery Bolt	44	5320R	Clip, Wire
10A	887	Insulator Clip	45	8915H	Clip
11	4171R	Battery	46	9534P	Slothead Hex Internal Hd. Self Tapping Screw No. 10 24 x 3/8 Type 1
12	226L	Battery	47	1003P	"Lockwasher 5/16
13	2235R	Coiler - Solenoid to Start	48	638P	"Hex Jam Nut 5/16 24 UNF
14	7755R	Safety Switch	49	3116P	"Hex Bolt 1/4 20 x 5/8
15	7754R	Solenoid	50	1002P	Lockwasher 1/4
16	8027R	Wire - Ground to Solenoid	51	600P	"Hex Nut 1/4 20 UNC
17	1161	Battery Cable	52	1005P	Lockwasher No. 10
18	275L	Terminal Cover	53	554P	"Hex Nut No. 10 32 UNF
19	8030R	Light Harness	54	1492P	"Hex Bolt 1/4 20 x 3/8
20	8098H	Taillight (Inc. Key No's. 21, 22, & 23)	55	2603P	"Hex Nut No. 10 24 UNC
21	8227H	Housing - Taillight	56	500P	"Hex Bolt 1/4 20 x 3/8
22	8227H	Housing - Taillight	57	500P	"Hex Bolt No. 10 24 UNC
23	8227H	Housing - Taillight	58	2603P	"Self-Tapping Hex. Mach. Screw 10 24 x 3/8
24	7153R	Maintenance Meter	58	1484P	Ext. Tooth Lockwasher No. 10
25	7181R	Light Switch Knob	59	1604P	"Hex Hd. Mach. Screw 7/32 x 2 1/2 18 Ga.
26	2793R	Light Switch Knob	60	514	Solenoid Terminal Cover
27	7153R	Light Switch Knob	61	1604P	Wire Guard
28	7153R	Light Switch Knob	62	3218P	"Hex Hd. Mach. Screw No. 10 24 x 1/2
29	7153R	Light Switch Knob	63	1320R	Cotter Pin
30	7153R	Light Switch Knob			
31	7153R	Light Switch Knob			
32	7552H	Maintenance Meter Key Set			

\*STANDARD HARDWARE PURCHASE LOCALLY

### REPAIR PARTS

20T GARDEN TRACTOR-MODEL NUMBER T9329BR

#### TRANSAXLE



### REPAIR PARTS

20T GARDEN TRACTOR-MODEL NUMBER T9329BR

#### TRANSAXLE

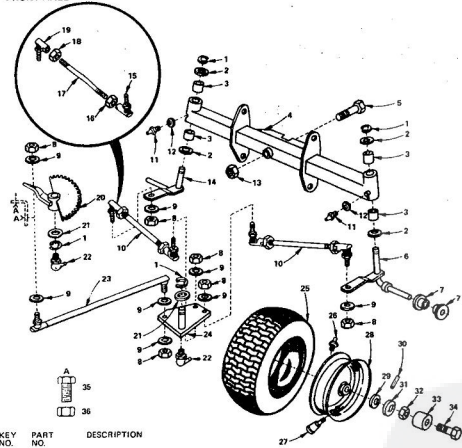
KEY NO.	PART NO.	DESCRIPTION	KEY NO.	PART NO.	DESCRIPTION
1	633A92	Transaxle Assembly Left Brake Drum & Shift Lever (Inc. Key No. 13 thru 80)	44	8119M	Needle Bearing
2	633A87	Gear Shift Lever Assembly (Inc. Key No. 3 thru 12 and 81)	45	5975H	Clutch Gearcase
3	6384H	Control Knob	46	8117M	Needle Bearing
4	8635R	Gear Shift Lever	47	7395H	Thrust Bearing Race
5	633A85	Gear Shift Ball Cover and Pin	48	6270H	Snap Ring - Crescent Type
6	8013R	Gear Shift Cap	49	633A14	High - Low Range Gears and Hub
7	8159H1	Shift Lever Guide Bolt	50	633A33	4th Reduction Shaft and Gears
8	4924H	Spring	51	7398H	Needle Bearing
9	1525P	Washer 19/32 x 59/64 x 18 Ga.	52	7395H	Thrust Bearing Race
10	8165R	Shift Mechanism Seal	53	633A31	3rd Reduction Shaft and Gears
11	1525P	Washer 9/16 x 15/16 x 11 Ga.	54	1370H	Thrust Bearing Race
12	2052P	Cotter Pin 3/4	55	4895H	Steel Change Gears and Shafts
13	3039R	Needle Bearing	56	633A30	Needle Bearing
14	6256H	Axle Thrust Washer	57	5001P	E Ring
15	7810H	Centerlock Graco Nut 3/8 - 24 UNF	58	4584H	Needle Bearing
16	8622H	Final Drive Gear	59	6231H	Low Speed Pinion
17	633A73	Axle Shaft and Gear	60	9658H1	Woodruff Key
18	6252H1	Bushing - Differential Pinion	61	6218H	Input Shaft
19	8957H	Differential Pinion	62	633A11	Intermediate and High Speed Pinions
20	6262H1	Differential Case	63	6216H	Shift Fork - R.H.
21	3056P	Hex Bolt 3/8 - 24 x 3 - 1/4 1" Thread Length	64	4218R	Shift Fork - L.H.
22	633A89	Gear Case and Bearings - L.H.	65	4928H	Snap Ring - Crescent Type
23	4002P	Pipe Plug 1/2 - 14 N.P.T.	66	6292H	Shift Fork - R.H.
24	4603P	90 Street Elbow 1/2 - 14 N.P.T.	67	1153R	Reverse Idler Gear
25	892R1	Sintered Iron Bearing	68	7394H	Reverse Idler Thrust Washer
26	7393R	Oil Seal	69	7384H	Reverse Idler Shaft
27	8204H	Lock Nut	70	1167R	Sealing Washer
28	8271H	Oil Seal	71	541P	Hex Jam Nut 7/16 - 20 UNF
29	8101H	Pipe Plug 1/4 - 18 N.P.T.	72	804P	Hex Nut 5/16 - 18 UNC
30	1007P	Lockwasher 5/16 Extra Heavy	73	6270H	Oil Seal
31	3087P	Hex Bolt 5/16 - 18 x 1 - 1/2 Gr. 5	74	751	Gear Shift Gate
32	8277H	Down Pin	75	1003P	Lockwasher 5/16
33	6272H	Spring - Shift Fork Detent	76	2158P	Reverse Idler Thrust Washer
34	7393M	Steel Washer	77	8274H	Gasket - Shift Ball Cover
35	5202H	Shift Fork High - Low Range	78	633000	Gear Case, Reverse Idler Shaft and Bearings R.H.
36	8217H	High - Low Range Shift Fork Shaft	79	5855H	Pressure Relief Valve
37	8118M	Needle Bearing	80	6269H	Oil Seal
38	6266H	Needle Bearing	81	7835M	Woodruff Key
39	6215H	High - Low Range Shift Shaft			
40	6221H	3rd Reduction Gear Shaft			
41	8959H	4th Reduction Pinion			
42	2239M	Woodruff Key			
43	633A32	3rd Reduction Shaft and Gear (Inc. Key No. 40, 41 & 42)			

\*STANDARD HARDWARE - PURCHASE LOCALLY

### REPAIR PARTS

20T GARDEN TRACTOR-MODEL NUMBER T9329BR

#### FRONT AXLE



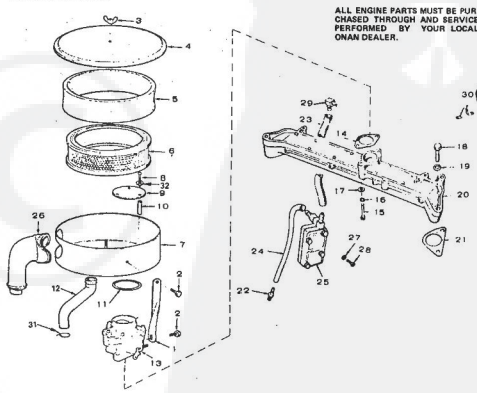
KEY NO.	PART NO.	DESCRIPTION	KEY NO.	PART NO.	DESCRIPTION
1	5000P	E-Ring	22	6842M	Grease Fitting
2	1528P	Washer 13/16 x 1 - 1/4 x 14 Ga.	23	7837H	Die Link and Spring
3	1329H1	Bearing	24	634A98	Evening Self-Centering
4	634A521	Front Axle w/Bearing (Inc. Key No. 3)	25	3536P	Roller 1 1/2 x 1 1/2 x 1 1/2
5	3294P	Hex Bolt 5/8 - 11 x 6 Grade 5	26	5855H	Oil Seal
6	634A277	Spindle Complete - R.H.	27	3636R	Roll Pin 5/32 x 1
7	8040H	Furged Bearing	28	7965R	Wear Washer
8	78124	Graco Lock Nut 3/8 - 24 UNF	29	1525P	Washer 19/32 x 1 - 1/2 x 18 Ga.
9	26124	Graco Washer 3/8 - 24 UNF	30	8788H	Roll Pin 5/32 x 1
10	7838R	Graco Lock Nut 1/2 - 20 UNF	31	8786H	Wear Washer
11	6855M	Graco Fitting	32	4831H	Elastic Nut 3/4 - 16 UNF
12	1525P	Washer 9/32 x 1 - 1/2 x 14 Ga.	33	8783H	Drive Coupler
13	4794H	Huglock Nut 5/8 - 11 UNC	34	3008P	Hex Bolt 5/16 - 18 x 1/2
14	634A278	Spindle Complete - L.H.	35	3241P	Hex Bolt 3/8 - 24 x 1
15	8515R	Tie Rod Joint (R.H. Thread)	36	548P	Hex Jam Nut 3/8 - 24 UNF
16	558P	Hex Jam Nut 1/2 - 20 (L.H. Thread)			
17	634A810	Tie Rod and Nut (Inc. Key No. 18 & 19)			
18	558P	Hex Jam Nut 1/2 - 20 (L.H. Thread)			
19	8514R	Tie Rod Joint (L.H. Thread)			
20	634A813	Steering Gear Sector and Arm			
21	1525P	Washer 49/64 x 1 - 1/4 x 16 Ga.			

\*STANDARD HARDWARE - PURCHASE LOCALLY

### REPAIR PARTS

20T GARDEN TRACTOR-MODEL NUMBER T9329BR  
ONAN ENGINE-MODEL NO. N52M-GA019.9/3580B

#### FUEL SYSTEM GROUP



KEY NO.	PART NO.	DESCRIPTION	KEY NO.	PART NO.	DESCRIPTION
1	140-148R	Air Cleaner Support	17	5260115	Fuel Nozzle (11.37" O.D. x 11.16" O.D. x 1.16" Thick)
2	821-0009	Cap Screw, Hex Head Locking (114-30-1087)	18	800-0069	Cap Screw, Hex Head (13.8 x 16 x 3")
3	885-0020	Wing Nut (114-201)	19	850-0059	Lockwasher, Spring (3.8")
4	140-148R	Air Cleaner Cover	20	154-2029	High-Material Gasket
5	140-1496	Washer	21	154-1931	Gasket
6	140-1225	E-clip	22	542-1395	Control Valve
7	4-62-149R	Air Filter Element	23	542-1414	Control Valve
8	8-5-2471	Hex Head Nut, Hex Head (114-30-1087)	24	502-2672	Control Valve
9	140-1530	Diaphragm Plate	25	502-2672	Control Valve
10	140-1501	Spacer	26	142-4296	Air Filter
11	509-0145	Seal, "O" Ring	27	850-0025	Lockwasher, Spring Hex 8 (32 x 1.4")
12	121-1054	Bushing	28	812-0075	Roller Mount Machine Spring
13	148-0271	Collector Assembly (See Separate Draw for Components)	29	502-6313	Elbow
14	154-0733	Gasket	30	403-1490	Lifting Bracket
15	800-0035	Cap Screw, Hex Head (15-16 x 2 - 1/2)	31	6331911	Hex Clamp
16	850-0045	Lockwasher, Spring (5 1/8")	32	850-0030	Lockwasher (Hex. 10)
				149-1522	Fuel Pump Return Act.

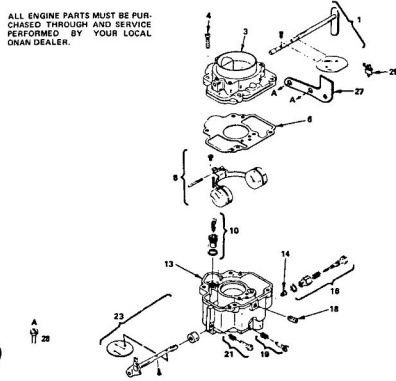
ALL ENGINE PARTS MUST BE PURCHASED THROUGH AND SERVICE PERFORMED BY YOUR LOCAL ONAN DEALER.

### REPAIR PARTS

20T GARDEN TRACTOR—MODEL NUMBER T93298R  
ONAN ENGINE—MODEL NO. N52M-GA019.9/3580B

#### CARBURETOR PARTS GROUP

ALL ENGINE PARTS MUST BE PURCHASED THROUGH AND SERVICE PERFORMED BY YOUR LOCAL ONAN DEALER.



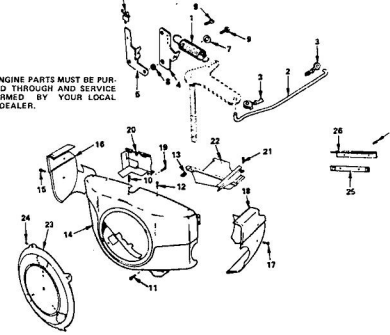
KEY NO.	PART NO.	DESCRIPTION	KEY NO.	PART NO.	DESCRIPTION
1	146-0271	Carburetor Assembly, Complete	18	146-0211	Set Screw
2	146-0290	Choke Shaft Package	19	146-0209	Needle Package
3	146-0224	Air Intake (Not Sold Separately)	21	146-0251	Screw Package
4	146-0224	Screw	22	146-0270	Throttle Shaft Package
5	146-0293	Gasket	27	153-0515	Bracket, Choke Cable
6	146-0292	Float Assembly Package	28	821-0002	Mounting Screw
8	146-0272	Valve and Seat Package	29	153-0514	Cable Cup
10	146-0272	Body (Not Sold Separately)	---	146-0270	*Gasket Kit
13	146-0238	Power Jet	---	146-0238	*Repair Kit (Includes Parts Marked *)
14	146-0214	*Power Needle Package	---	---	---

### REPAIR PARTS

20T GARDEN TRACTOR—MODEL NUMBER T93298R  
ONAN ENGINE—MODEL NO. N52M-GA019.9/3580B

#### GOVERNOR AND AIR HOUSING GROUP

ALL ENGINE PARTS MUST BE PURCHASED THROUGH AND SERVICE PERFORMED BY YOUR LOCAL ONAN DEALER.



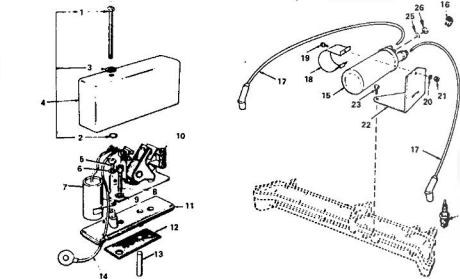
KEY NO.	PART NO.	DESCRIPTION	KEY NO.	PART NO.	DESCRIPTION
1	150-1214	Governor Spring	15	815-0261	Cap Screw, Hex Head Locking (1/4" x 20 x 7/16")
2	150-1813	Throttle Link	16	134-3448	Air Housing, Left Side
3	518-0204	Clot	17	815-0261	Cap Screw, Hex Head Locking (1/4" x 20 x 7/16")
4	150-1576	Governor Control Arm	18	134-3448	Air Housing, Right Side
5	150-1725	Governor Control Mounting Bracket	19	815-0261	Cap Screw, Hex Head Locking (1/4" x 20 x 7/16")
6	153-0514	Cable Clip	20	134-2648	Housing Support, Left Side
7	525-0214	Flat Washer (1/2" I.D. x 1/2" O.D. x 1/16" Thick)	21	821-0018	Cap Screw, Hex Head Locking (1/4" x 20 x 5/8")
8	150-1269	Bushing	22	134-2691	Housing Support, Right Side
9	821-0010	Hex Head Cap Screw, Locking (1/4" x 20 x 1/2")	23	134-2688	Housing, Screen
10	815-0261	Cap Screw, Hex Head Locking (1/4" x 20 x 7/16")	24	815-0278	Cap Screw, Hex Head w/ET (No. 14 x 1/2")
11	821-0010	Cap Screw, Hex Head Locking (1/4" x 20 x 1/2")	25	134-2610	Support Mounting Bracket
12	815-0474	Cap Screw, Tapping Hex Head (1/4" x 1/2")	26	134-3511	Housing Support, Lower
13	870-0107	Nut, Lock (No. 14)	27	821-0009	Cap Screw, Hex Head Locking (1/4" x 20 x 3/8")
14	134-3747	Air Housing			

### REPAIR PARTS

20T GARDEN TRACTOR—MODEL NUMBER T93298R  
ONAN ENGINE—MODEL NO. N52M-GA019.9/3580B

#### IGNITION AND BREAKER BOX GROUP

ALL ENGINE PARTS MUST BE PURCHASED THROUGH AND SERVICE PERFORMED BY YOUR LOCAL ONAN DEALER.



KEY NO.	PART NO.	DESCRIPTION	KEY NO.	PART NO.	DESCRIPTION
1	180-1210	Breaker Box (See Parts Marked *)	15	180-0535	Coil
1	812-0100	*Round Head Machine Screw (No. 10 - 24 x 1 - 1/2")	16	180-0604	Cap (Part of Ignition Coil)
2	500-0065	*Bracket	17	SPARK PLUG CABLE	
3	526-0008	*Flat Washer (1/3 64" I.D. x 7/16" O.D. x 1/32" Thick)	18	187-1596	16"
4	180-1232	*Cover	19	821-0010	Cap Screw, Hex Head Locking (1/4" x 20 x 1/2")
5	815-0258	*Cap Screw, Standard (No. 8 - 32 x 5/16")	20	850-0040	Lockwasher, Spring (1/4")
6	850-0025	*Lockwasher, Spring (No. 8)	21	862-0001	Hex Nut (1/4" - 20)
7	317-0108	*Condenser	22	186-0900	Bracket
8	802-0034	*Cap Screw, Socket Head (1/4" x 20 x 3/4")	23	815-0261	Cap Screw (1/4" x 20 x 9/16)
9	850-0038	*Lockwasher, Spring (1/4")	24	187-0231	Spark Plug
10	180-1183	*Power Sw.	25	850-2005	Washer
11	180-1219	*Blow	26	180-0554	Ignition Coil Nut
12	180-1150	*Gasket			
13	150-1151	*Plate			
14	338-2378	Load (Breaker Box to Coil)			
150	1213	Tow-up Kit (See Points and Condenser)			

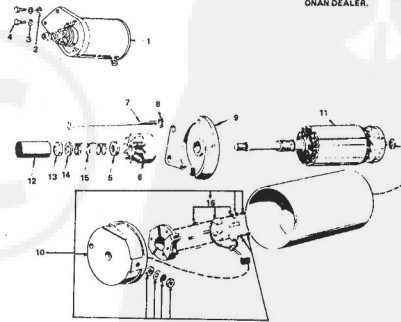
\*PARTS INCLUDED IN 180-1210 BREAKER BOX

### REPAIR PARTS

20T GARDEN TRACTOR—MODEL NUMBER T93298R  
ONAN ENGINE—MODEL NO. N52M-GA019.9/3580B

#### STARTER PARTS GROUP

ALL ENGINE PARTS MUST BE PURCHASED THROUGH AND SERVICE PERFORMED BY YOUR LOCAL ONAN DEALER.



KEY NO.	PART NO.	DESCRIPTION
1	191-1205	Starter (Complete)
2	826-0112	Flat Washer (1/3 32" I.D. x 1" O.D. x 3/32" Thick)
3	850-0045	Lockwasher, Spring (5/16")
4	800-0028	Cap Screw, Hex Head
5	191-1047	Spacer
6	191-1156	Drive Assembly
7	191-1157	Cap Screw, Hex Head Lockwasher, Spring (1/4")
8	850-0040	Cap Assembly
9	191-1223	Cap Assembly
10	191-1156	Cap Assembly
11	191-1154	Armature
12	191-1034	Dust Cover
13	191-1045	Stop Nut
14	191-1046	Flat Washer
15	191-1035	Spring
16	191-1222	Brush, Spring and Start Kit



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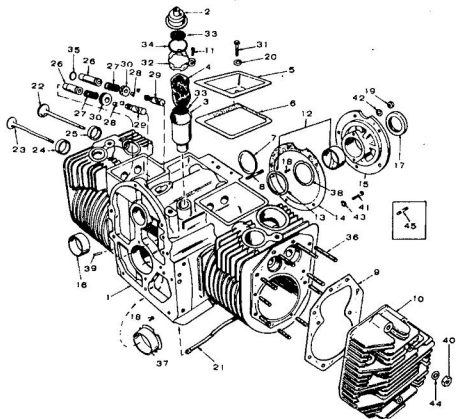
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**REPAIR PARTS**

20T GARDEN TRACTOR-MODEL NUMBER T93298R  
ONAN ENGINE-MODEL NO. N52M-GA019.9/3580B

**CYLINDER BLOCK GROUP**

ALL ENGINE PARTS MUST BE PURCHASED THROUGH AND SERVICE PERFORMED BY YOUR LOCAL ONAN DEALER.



**REPAIR PARTS**

20T GARDEN TRACTOR-MODEL NUMBER T93298R  
ONAN ENGINE-MODEL NO. N52M-GA019.9/3580B

**CYLINDER BLOCK GROUP**

KEY NO.	PART NO.	DESCRIPTION	KEY NO.	PART NO.	DESCRIPTION
1	110-2668	Cylinder Block Assembly (Inc. Parts Marked *)	29	VALVE TAPPET	115-0006 Standard
2	123-0954	Breather Cap and Valve	30	115-0006-005	Overize
3	123-0952	Breather Tube	31	110-0004	Valve Rotator
4	123-0889	Valve Compartment Cover	31	800-0011	Hex Head Cap Screw (1/4" Dia. x 1")
5	110-1220	Valve Cover Gasket	32	123-0951	Breather Cap Clamp
6	517-0048	Expansion Plug	33	123-0958	Breather Screws
7	520-0736	Stud	34	509-0017	Breather Tube Seal
8	110-1731	Head Gasket	35	115-0068	Intake Valve Guide Gasket
9	119-2575	Cylinder Head	36	CYLINDER HEAD STUD	520-0717 "3/8 x 1 1/8"
10	809-0035	Round Head Self Tapping Screw (No. 8 x 3/4")	37	520-0773	"3/8 x 2 5/16"
11	809-0035	Round Head Self Tapping Screw (No. 8 x 3/4")	37	101-0432	CRANKSHAFT BEARING, FRONT
12	CRANKSHAFT BEARING, REAR	Standard	37	101-0432	CRANKSHAFT BEARING, FRONT
13	101-0450	"Standard"		101-0432	Standard
14	101-0450-02	.002" Overize		101-0432-02	.002" Underize
15	101-0450-10	.010" Underize		101-0432-10	.010" Underize
16	101-0450-20	.020" Underize		101-0432-20	.020" Underize
17	101-0450-30	.030" Underize		101-0432-30	.030" Underize
18	104-0975	Thrust Washer	38	104-0776	CRANKSHAFT SHIM
19	101-0418	Bearing Plate Gasket	39	518-0141	Alignment Pin
20	101-0439	Bearing Plate, Rear	40	106-0051	Hex Nut (5/8" Dia.)
21	101-0405	Camshaft Bearing	41	800-0046	Hex Head Cap Screw (3/8" Dia. x 1 1/2")
22	509-0041	CRANKSHAFT OIL SEAL	42	526-0251	"Flat Washer, 1/16" I.D. x .688" O.D. x .045 Thick"
23	516-0072	Bearing Stop Pin	43	526-0068	"Flat Washer, Copper (25/64" I.D. x 9/16" O.D. x 1/16" Thick)"
24	104-0291	Hex Nut (3/8" Dia.)	44	526-0250	"Flat Washer, Special (4/16" I.D. x 1/8" Thick)"
25	120-0680	"Oil Tube"	45	520-0820	"Stud (Hex Head)"
26	110-1914	Intake Valve			
27	110-1718	Exhaust Valve			
28	110-1718	Exhaust Valve			
29	110-1718	Exhaust Valve			
30	110-1718	Exhaust Valve			
31	110-1718	Exhaust Valve			
32	110-1718	Exhaust Valve			
33	110-1718	Exhaust Valve			
34	110-1718	Exhaust Valve			
35	110-1718	Exhaust Valve			
36	110-1718	Exhaust Valve			
37	110-1718	Exhaust Valve			
38	110-1718	Exhaust Valve			
39	110-1718	Exhaust Valve			
40	110-1718	Exhaust Valve			

\*PARTS INCLUDED IN CYLINDER BLOCK ASSEMBLY.

SERVICE KITS AND MISCELLANEOUS

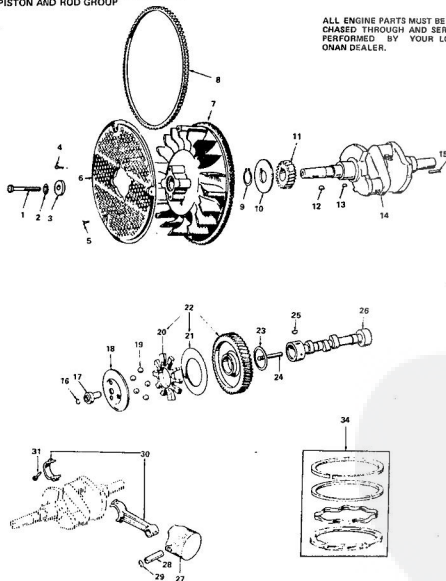
PART NO.	DESCRIPTION
98-3229	Deoil Kit
198-0142	Engne Gasket Kit
198-0121	Carburettor Removal Kit
180-1213	Ignition Tuneup Kit
522-0300	Engne Overhaul Kit

**REPAIR PARTS**

20T GARDEN TRACTOR-MODEL NUMBER T93298R  
ONAN ENGINE-MODEL NO. N52M-GA019.9/3580B

**CRANKSHAFT, FLYWHEEL, CAMSHAFT, PISTON AND ROD GROUP**

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**REPAIR PARTS**

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ONAN ENGINE-MODEL NO. N52M-GA019.9/3580B

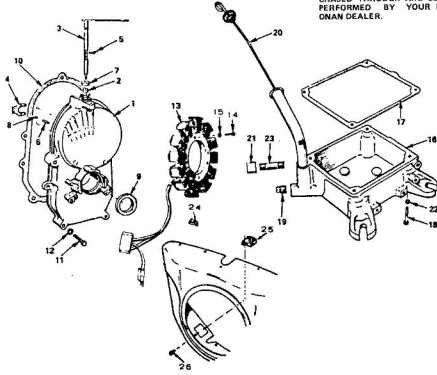
**CRANKSHAFT, FLYWHEEL, CAMSHAFT, PISTON AND ROD GROUP**

KEY NO.	PART NO.	DESCRIPTION
1	104-3110	Cap Screw (Special)
2	890-0055	Lockwasher, Spring (7/16")
3	526-0262	Flat Washer (15/16" I.D. x 1 - 1/2" O.D. x .311" Thick)
4	821-0014	Cap Screw, Hex Head Locking (5/16" Dia. x 1 1/2")
5	815-0400	Screw, Truss Hd. Mach. w/Ext. Lw. (1/4" Dia. x 1 1/2")
6	134-3212	Flywheel, Guard
7	134-2740	Flywheel (Inc. Ring Gear and Magnet)
8	104-0778	Retaining Ring
9	518-0014	Retaining Ring
10	104-0443	Retaining Washer
11	104-0232	Gear
12	515-0277	Flywheel Key
13	515-0001	Gear Key
14	194-1640	Crankshaft
15	515-0103	Key
16	190-0078	Retaining Ring
17	190-1519	Hub
18	190-1520	Cup
19	510-0115	Flyball
20	190-1257	Spacer
21	190-0077	Plate
22	106-0332	Gear Assembly (Inc. Plate and Spacer)
23	105-0504	Thrust Washer
24	190-0075	Center Pin
25	515-0001	Key
26	105-0382	Camshaft (Includes Center Pin)
27	CRANKSHAFT PIN (Includes Retaining Rings)	
	112-0158	Standard
	112-0158-05	.005" Overize
	112-0158-10	.010" Overize
	112-0158-20	.020" Overize
	112-0158-30	.030" Overize
	112-0158-40	.040" Overize
28	112-0659	Piston Pin
29	518-0294	Retaining Ring
30	CONNECTING ROD	
	114-0295	Standard
	114-0295-10	.010" Underize
	114-0295-20	.020" Underize
	144-0295-30	.030" Underize
31	890-0035	Rod Cap Bolt
34	RING SET	
	113-0203	Standard
	113-0203-05	.005" Overize
	113-0203-10	.010" Overize
	113-0203-20	.020" Overize
	113-0203-30	.030" Overize
	113-0203-40	.040" Overize

### REPAIR PARTS

20T GARDEN TRACTOR-MODEL NUMBER T9329BR  
ONAN ENGINE-MODEL NO. N52M-GA019/3580B

#### OIL BASE AND GEARCASE GROUP



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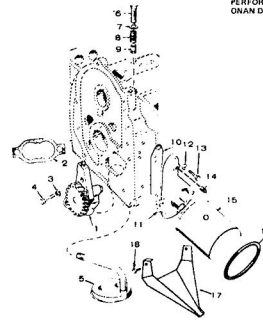
KEY NO.	PART NO.	DESCRIPTION	KEY NO.	PART NO.	DESCRIPTION
1	103-0498	Gearcase Assembly (Inc. Parts Marked *)	13	191-1216	Stator
2	510-0105	Bearing	14	813-0108	Round Head Machine Screw (No. 10 - 32 x 1-1/2")
3	150-1470	Shaft and Arm	15	850-0030	Lockwasher (No. 10)
4	150-1187	Yoke	16	102-0709	Oil Base
5	815-0046	Fan Head Machine Screw (No. 8 - 32 x 3/8")	17	102-0693	Oil Base Gasket
6	516-0120	Dowel Pin	18	800-0056	Hex Head Cap Screw (3/8" - 16 x 1-1/4")
7	505-0008	Oil Seal	19	505-0058	Drain Plug
8	510-0014	Bull	20	123-1292	Cap and Indicator
9	800-0040	Oil Seal	21	505-0159	Oil Drain Cap Pipe (1-1/2")
10	103-0408	Gasket	22	850-0050	Lockwasher (3/8")
11	800-0032	5/16 18 x 1 3/4"	23	505-0176	Oil Drain Nipple Pipe (1/2 x 3 - 1/2")
12	800-0034	5/16 18 x 2 1/4"	24	157-0218	Support Alternator Leads
	800-0065	9/16" O.D. x 1 1/8" Thick	25	191-1205	Regulator, Voltage (15 Amp)
			26	821-0010	Hex Head Cap Screw (1/4" - 20 x 1/2)

\* Parts included in 103-0498 Gearcase Assembly.

### REPAIR PARTS

20T GARDEN TRACTOR-MODEL NUMBER T9329BR  
ONAN ENGINE-MODEL NO. N52M-GA019/3580B

#### OIL SYSTEM GROUP



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KEY NO.	PART NO.	DESCRIPTION
1	120-0491	Oil Pump
2	120-0161	Pump Gasket Kit
3	850-0040	Lockwasher, Spring (1/4")
4	800-0007	Cap Screw, Hex Head (1/4" - 20 - 1")
5	520-0735	Oil Intake Cup
6	801-0050	Cap Screw, Hex Head (3/8" - 24 x 1")
7	526-0065	Fan Washer, Copper (15/64" I.D. x 9/16" O.D. x 1/16" Thick)
8	120-0140	Spring
9	120-0398	By-Pass Valve
10	122-0221	Gasket
11	122-0320	Oil Filter Adaptor
12	526-0065	Fan Washer, Copper (21/64" I.D. x 9/16" O.D. x 1/16" Thick)
13	800-0028	Cap Screw, Hex Head (5/16" - 18 x 1")
14	505-0057	Plug (1/8")
15	122-0499	Oil Flange
16	122-0341	Oil Filter Nut Seal
17	122-0352	Oil Drain
18	815-0194	Cap Screw Hex Head W ET (No. 10 - 32 x 3/8")