



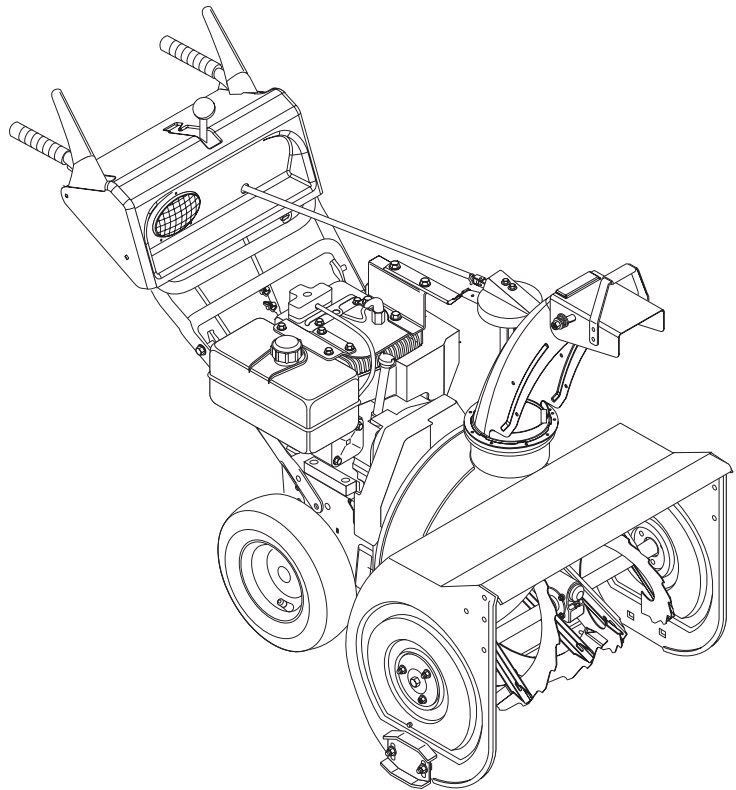
# Sno-Thro<sup>®</sup>

## Parts Manual

### Models

932104 - 8524

932502 - 8524



## THE MANUAL

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Before you operate your unit, carefully and completely read manuals supplied with the unit. The contents will provide you with an understanding of safety instructions and controls during normal operation and maintenance.

For your safety and the safety of others always read, understand, and follow all DANGER, WARNING, and CAUTION messages found in manuals and on safety decals.

Hardware descriptions are given in decimals.

Decimals to Fractions			
.063	1/16	.563	9/16
.125	1/8	.625	5/8
.188	3/16	.688	11/16
.250	1/4	.750	3/4
.313	5/16	.813	13/16
.375	3/8	.875	7/8
.438	7/16	.938	15/16
.500	1/2	1.00	1

## SERVICE AND REPLACEMENT PARTS

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When ordering replacement parts or making service inquiries, know the Model and Serial numbers of your unit and engine.

Numbers are located on the product registration card in the unit literature package. They are printed on a serial number label, located on the frame of your unit.

- Record Unit Model and Serial numbers here:

- Record Engine Model and Serial numbers here:

## UNAUTHORIZED REPLACEMENT PARTS

Use only Ariens replacement parts. The replacement of any part on this vehicle with anything other than an Ariens authorized replacement part may adversely affect the performance, durability, or safety of this unit and may void the warranty. Ariens disclaims liability for any claims or damages, whether warranty, property damage, personal injury or death arising out of the use of unauthorized replacement parts.

## PRODUCT REGISTRATION

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The Ariens dealer must register the product at the time of purchase. Registering the product will help the company process warranty claims or contact you with the latest service information. All claims meeting requirements during the limited warranty period will be honored, whether or not the product registration card is returned. Keep a proof of purchase if you do not register your unit.

**Customer Note:** If Dealer does not register your product, please fill out, sign and return the product registration card to Ariens or go to [www.ariens.com](http://www.ariens.com).

## YOUR SATISFACTION IS IMPORTANT

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**Questions? Please follow these helpful steps:**

1. Refer to the manuals supplied with your unit.  
They will guide you through safe and proper operation and maintenance.  
They contain specifications on your unit.  
If your questions are not answered in these manuals, go to step number two.
2. Contact Your Dealer.  
Our dealers will be happy to supply any service or advice required to keep your unit operating at peak efficiency.  
A factory trained staff is available to support your equipment needs. They stock genuine Ariens parts and lubricants manufactured with the same precision and skill as the original.  
If your questions are not resolved by the support staff, ask for the manager or owner.  
When contacting your Dealer supply your model and serial numbers.

## TO SPEED PARTS ORDERING:

1. Know the model and serial numbers of your unit.
2. Know the part number required.
3. Know the quantity required.
4. Know the part description.

# MODELS

## Domestic

**Model 932104 (8524)**  
8.5 H.P. 24" Sno-Thro  
Serial No. 000101 and up

## Global

**Model 932502 (8524)**  
8.5 H.P. 24" Sno-Thro  
Serial No. 000101 and up

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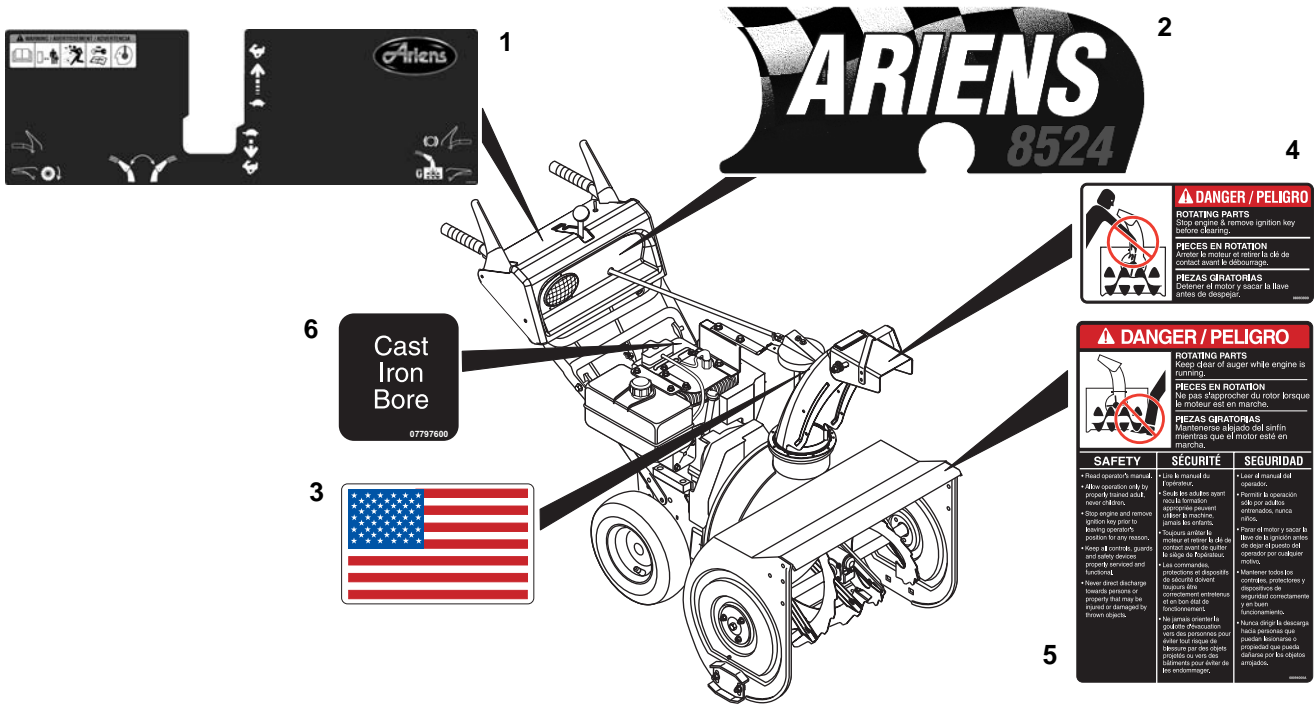
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# DECALS

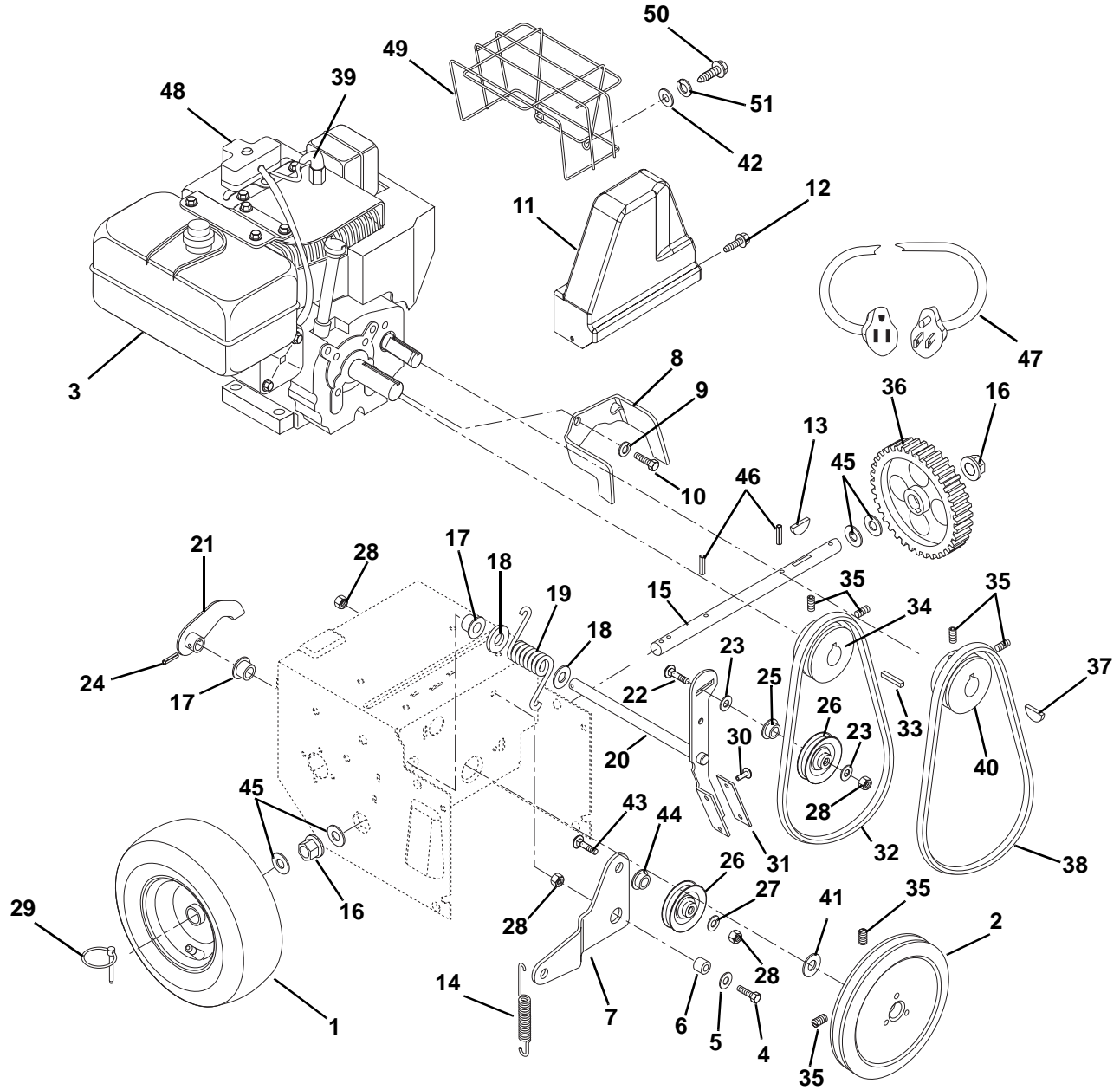


Item	Part No.	Qty.	Description
1	08093200	1	Decal, Dash 8524
2	00163500	1	Decal, Front Panel 8524
3	05305100	1	Decal, American Flag
4	08093900	1	Decal, Danger- Rotating Parts
5	08094000	1	Decal, Danger
6	07797600	1	Decal, Cast Iron Bore

PS0307

# ENGINE AND BELT DRIVE

Model 932104, 502



PS0256

Item	Part No.	Qty.	Description
1	07155800	2	Wheel 5.00 x 6.00
	07155900	2	Tire 15 x 5.00-6
	07155700	2	Tire/Wheel Assembly 15 x 5.00-6
	07156400	2	Tube 15 x 5.00-6
2	00164600	1	Pulley, with Hub, 3L, 6.5" Dia.
3	08260004	1	Engine, 8HP Tecumseh LH (104)
	08260005	1	Engine, 8HP Tecumseh LH (502)
4	05947000	1	Bolt, Hex .31-18 x .75 Grade 5
5	06435700	1	Washer, Flat Steel .38 x .88 x .083
6	01035800	1	Spacer Bushing

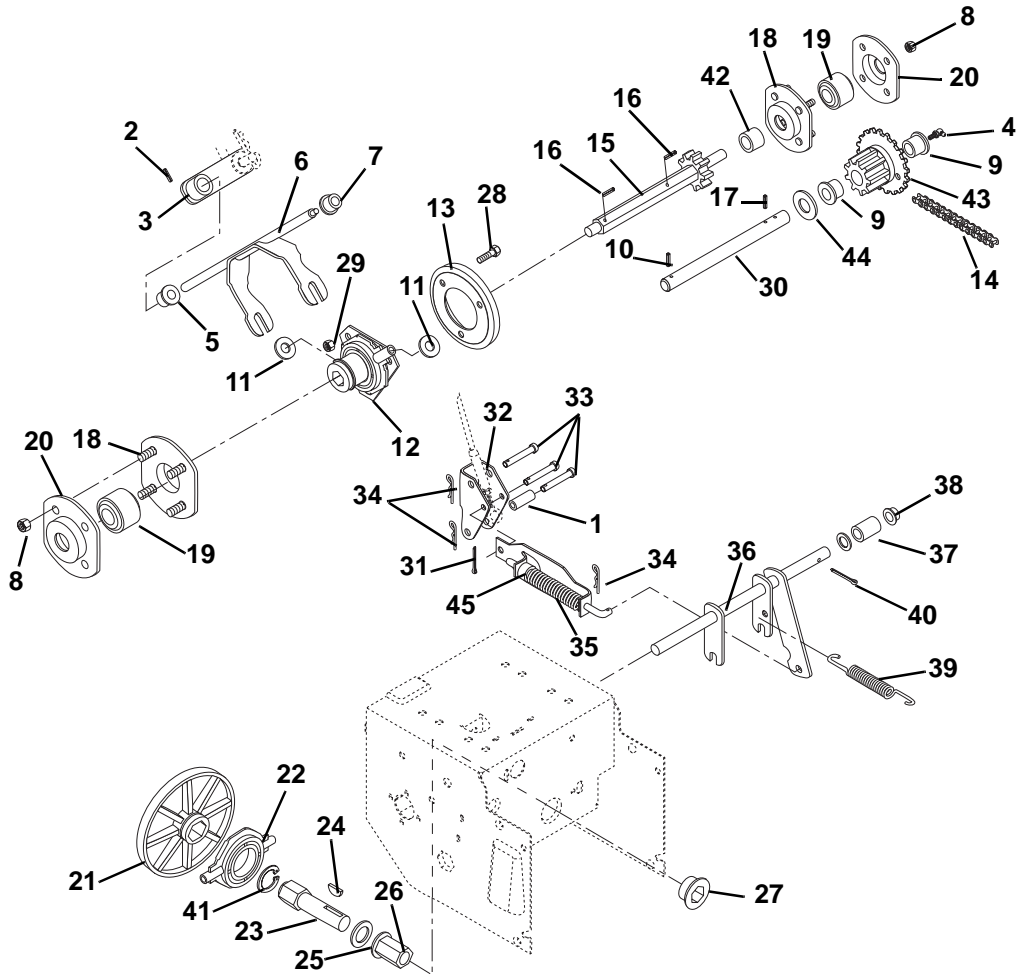
# ENGINE AND BELT DRIVE

Model 932104, 502

Item	Part No.	Qty.	Description
7	03206900	1	Idler Arm
8	03238151	1	Belt Finger
9	06308600	1	Washer, Locking .31 x .078
10	05947300	1	Bolt, Hex .31-24 x .75 Grade 5
11	03238000	1	Belt Cover
12	07411600	2	Screw, Tapping Hex Washer Head .25-20 x .37
13	06601200	1	Key, Woodruff .25 x .75 x .313 SAE 91
14	08317200	1	Spring, Tension .047 x .44 x 3.37
15	03239800	1	Shaft, Axle
16	05521600	2	Bushing, Flange Hex .75 x .873 x .53 x 1.18
17	05503700	2	Bushing, Flange .50 x .625 x .312 x .75
18	06439600	2	Washer, Flat Steel .52 x .81 x .033
19	08322000	1	Spring, Torsion .148 x 1.00 x 1.53
20	53205100	1	Clutch Arm with Brake Pad (Includes items 30 & 31)
21	03231951	1	Arm, Clutch
22	06219200	1	Bolt, Round Head Square Neck .31-18 x 1.25 Grade 5
23	06435700	2	Washer, Flat Steel .38 x .88 x .083
24	05802600	1	Pin, Roll .16 x .88
25	01213100	1	Bearing Spacer
26	02457400	2	Idler
27	06435700	1	Washer, Flat Steel .38 x .88 x .083
28	06529800	2	Nut, Locking Center .31-18
29	07053700	2	Pin, Lock .31 x 1.75
30	06806700	1	Rivet, Tubular .19 x .44
31	03229100	1	Brake Lining
32	07234000	1	V-Belt, Auger Impeller Drive
33	06601800	1	Key, Straight .25 x 1.75 x .25
34	03239700	1	Sheave, Engine Blower
35	06005500	6	Screw, Set .31-18 x .38
36	01021100	1	Spur Gear
37	06601500	1	Key, Woodruff .13 x .63 x .25
38	07228600	1	V-Belt 3L-Section 33.37 x .38 (Traction Drive)
39	21533400	AR	Plug, Spark
40	03232700	1	Pulley, Camshaft
41	06417300	1	Washer, Thrust .632 x 1.105 x .062
42	06442700	2	Washer, Flat Steel .22 x .50 x .05
43	06221800	1	Round Head Square Short Neck .31-18 x 1.00 Grade 5
44	01305900	1	Shoulder Spacer
45	06441400	4	Washer, Flat Steel .75 x 1.13 x .062
46	05800300	2	Pin, Roll .19 x 1.25
47	02483100	1	Cord, Extension 120 V
48	72403600	1	120 V Starter Kit
49	02460200	1	Guard, Muffler
50	07413600	2	Screw, Tapping 10-16 x .75
51	06308100	2	Washer, Locking 10 x .05

# FRICTION DRIVE

Model 932104, 502



PS1050

Item	Part No.	Qty.	Description
1	03233600	1	Spacer
2	05802600	1	Pin, Roll .16 x .88
3	03248500	1	Arm, Speed Change
4	07029700	1	Drive Fitting, Hydraulic
5	05503700	1	Bushing, Flange .50 x .63 x .31 x .75
6	03231700	1	Fork, Speed
7	05514500	1	Bushing, Flange .33 x .44 x .44 x .56
8	06530600	8	Nut, Locking Dual Face 10-24
9	05502600	2	Bushing, Flange .63 x .75 x .50 x .88
10	05802900	1	Pin, Roll .16 x 1.00
11	06439200	2	Washer, Flat Steel .51 x 1.00 x .062
12	03235300	1	Shift Carrier

# FRICION DRIVE

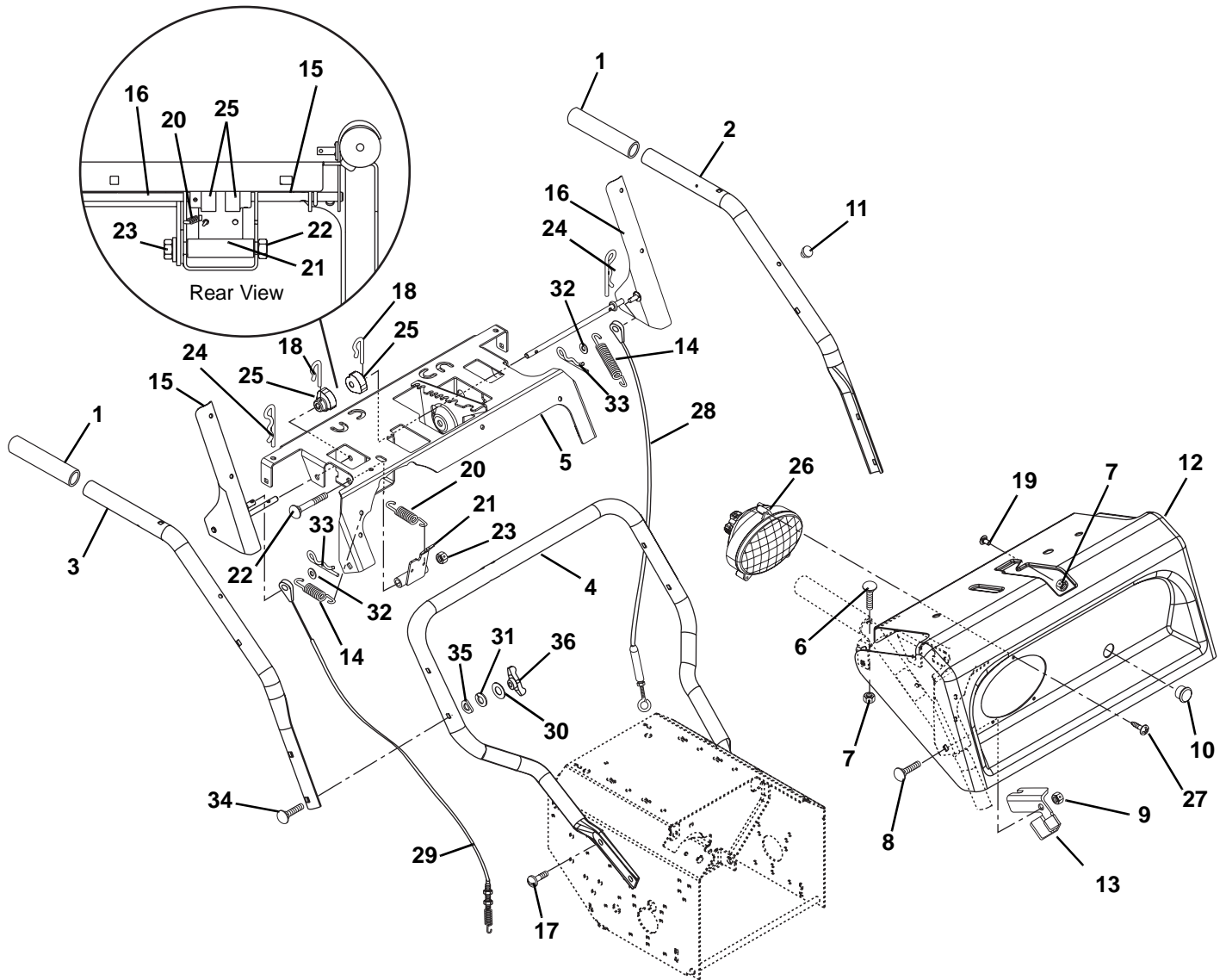
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Model 932104, 502

Item	Part No.	Qty.	Description
13	03248300	1	Disc, Friction
14	03248600	1	Chain, Roller #41 x 27 Pitches
15	03248400	1	Hex Shaft
16	05804700	2	Pin, Roll .125 x .88
17	05800900	2	Pin, Roll .13 x 1.00
18	00308500	2	Bearing, Flange
19	05435200	2	Bearing, Ball .437 x 1.375 x .437
20	03226900	2	Bearing, Flange
21	03201100	1	Friction Plate
22	03225900	1	Bearing Assembly
23	03200700	1	Hex Shaft
24	06600300	1	Key, Woodruff .19 x .75
25	06417300	1	Washer, Thrust .632 x 1.105 x .062
26	05512000	1	Bushing, Flange .63 x .88 x .75 1.19
27	05512100	1	Bushing, Flange .88 x 1.25 x .75 x 1.50
28	05947900	3	Bolt, Hex .25-20 x .50 Grade 5
29	06529700	3	Nut, Locking Center .25-20
30	03232600	1	Pinion Shaft
31	06704100	1	Pin, Cotter .07 x .50
32	03248000	1	Bracket, Traction Arm
33	06714700	3	Pin, Clevis .243/.248 x 1.38
34	06713500	3	Pin, Hair Internal .08 x .18 x 1.18
35	53209100	1	Assembly, Traction Clutch
36	03221100	1	Clutch Fork
37	03231500	1	Spacer .50 x .75 x .32
38	01208600	1	Cap .50 Rod
39	08314100	1	Spring, Tension .06 x .44 x 1.56
40	06707100	1	Pin, Cotter .12 x 1.0
41	05704300	1	Ring, Retaining External 1.25 x .05
42	03248700	1	Spacer,.45 x .62 x 1.23
43	53211000	1	Assembly, Pinion and Sprocket (Includes Item 9)
44	06436100	2	Washer, Flat Steel .63 x 1.01 x .062
45	03242100	1	Spacer .325 x .625 x .455

# HANDLEBARS AND CONTROLS

Model 932104, 502



PS0692

Item	Part No.	Qty.	Description
1	07518700	2	Handle Grip
2	02491951	1	Handlebar, Upper-Right Hand
3	02492051	1	Handlebar, Upper-Left Hand
4	03242951	1	Handlebar, Lower
5	02491651	1	Panel, Sub



# HANDLEBARS AND CONTROLS

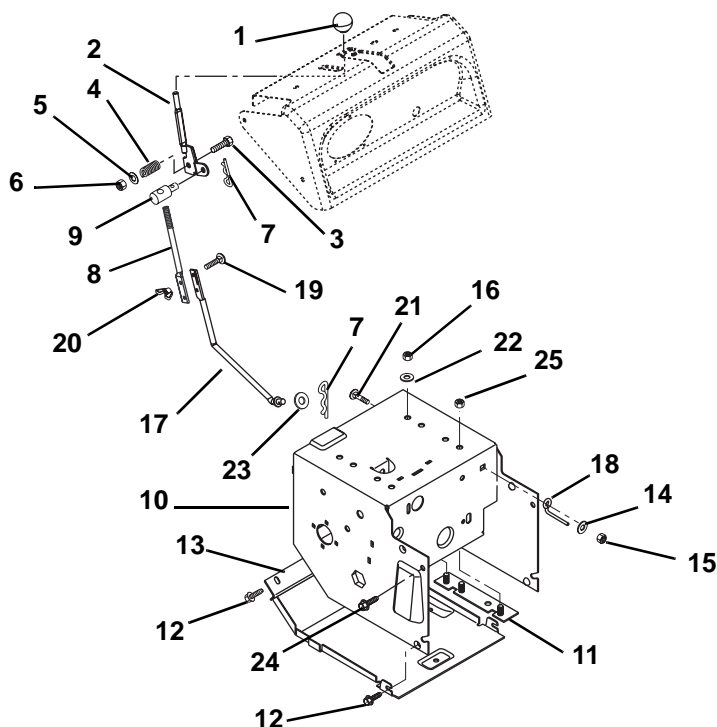
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Model 932104, 502

Item	Part No.	Qty.	Description
6	06220100	2	Bolt, Round Head Square Neck .25-20 x 1.25
7	06529700	7	Nut, Locking Center .25-20
8	06220200	2	Bolt, Round Head Square Neck .31-18 x 1.75 Grade 5
9	06529800	2	Nut, Locking Center .31-18
10	07511200	1	Bushing, Snap
11	07511800	2	Bumper
12	53210800	AR	Panel with Decal, 824
13	03244951	1	Bracket, Cable Anchor
14	08337100	2	Spring, Tension .06 x .50 x 3.76
15	02493100	1	Lever, Right Hand - Coated
16	02493200	1	Lever, Left Hand - Coated
17	07047100	4	Bolt Serrated Hex Flange Washer Head .31-18 x .62 Grade 5
18	06714500	2	Pin, Spring Clip
19	06214300	5	Bolt, Round Head Square Neck .25-20 x .50
20	08337000	1	Spring, Tension .05 x .44 x 1.45
21	02492200	1	Arm, Interlock
22	05957800	1	Bolt, Hex .38-16 x 3.00 Grade 5
23	06529600	1	Nut, Locking Center .38-16
24	06714800	2	Pin, Hair
25	02492100	2	Cam, Interlock
26	02485000	1	Headlamp, Oval with 1156 Bulb
27	07416700	3	Screw, Tapping 10-16 x .75 Hi-Lo
28	06948900	1	Cable, Traction
29	06947600	1	Cable, Auger
30	06439400	4	Washer, Flat Steel .33 x .88 x .062
31	06307400	4	Washer, Locking .31 x .10 Heavy
32	06437300	2	Washer, Flat Steel .28 x .62 x .065
33	06701900	2	Pin, Hair Internal .06 x .18 x .77
34	06221600	4	Bolt, Round Head Square Neck .31-18 x 2.25
35	06446800	4	Washer, Saddle .32 x .94 x .062
36	07531700	4	Knob, Wing .31-18

# SPEED SELECTOR AND FRAME

Model 932104, 502

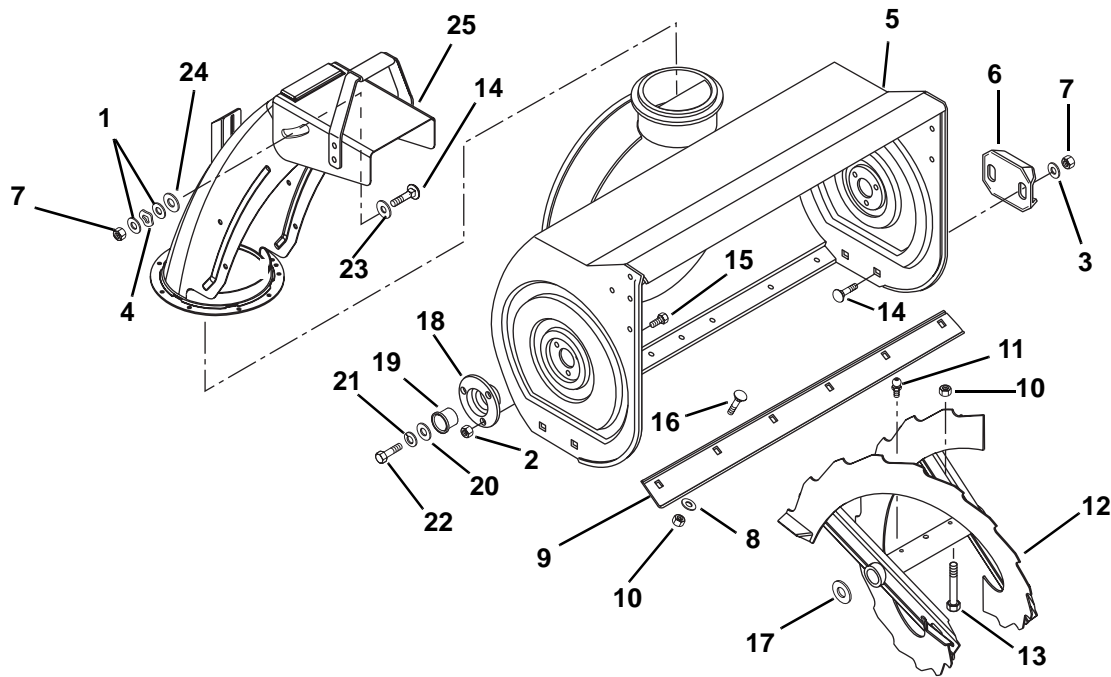


PS0702

Item	Part No.	Qty.	Description
1	07533500	1	Knob, Ball Black 1.41, .38-16
2	03247900	1	Lever, Shift
3	05963300	1	Bolt, Hex .38-16 x 2.00 Grade 5
4	08335700	1	Spring, Compression .13 x .78 x 1.25
5	06435900	1	Washer, Flat Steel .44 x 1.00 x .083
6	06529600	1	Nut, Locking Center .38-16
7	06713500	2	Pin, Hair Internal .08 x .18 x 1.18
8	02492800	1	Rod, Shift-Upper
9	02493000	1	Pivot, Rod
10	03240559	1	Main Frame
11	03233800	1	Plate, Bolt 5L, 8R
	03233900	1	Plate, Bolt 5R, 8L
12	07411600	4	Screw, Tapping .25-20 x .37 Hex Washer Head
13	03232459	1	Cover Bottom
14	06435700	1	Washer, Flat Steel .38 x .88 x .08
15	06529800	1	Nut, Locking Center .31-18
16	06529200	3	Nut, Hex .31-18
	06529800	1	Nut, Locking Center .31-18
17	03239500	1	Rod, Shift-Lower
18	03236300	1	Belt Finger-Lower
19	06219800	2	Bolt, Round Head Square Neck .25-20 x 1.00 Grade 5
20	06537500	2	Nut, Locking Wing .25-20
21	06220800	1	Bolt-Round Head Square Short Neck .31-18 x .75 Grade 5
22	06307400	3	Washer, Locking .31 x .10 Heavy
	06310500	1	Washer, Locking Internal .31
	06436700	1	Washer, Flat Steel .323 x .625 x .062
23	06441900	1	Washer, Flat Steel .53 x 1.06 x .095
24	07415400	4	Screw, Tapping .38-16 x .75 Hex Washer Head
25	06530200	2	Nut, Locking-Nylon .312-18

# AUGER AND CHUTE

Model 932104, 502

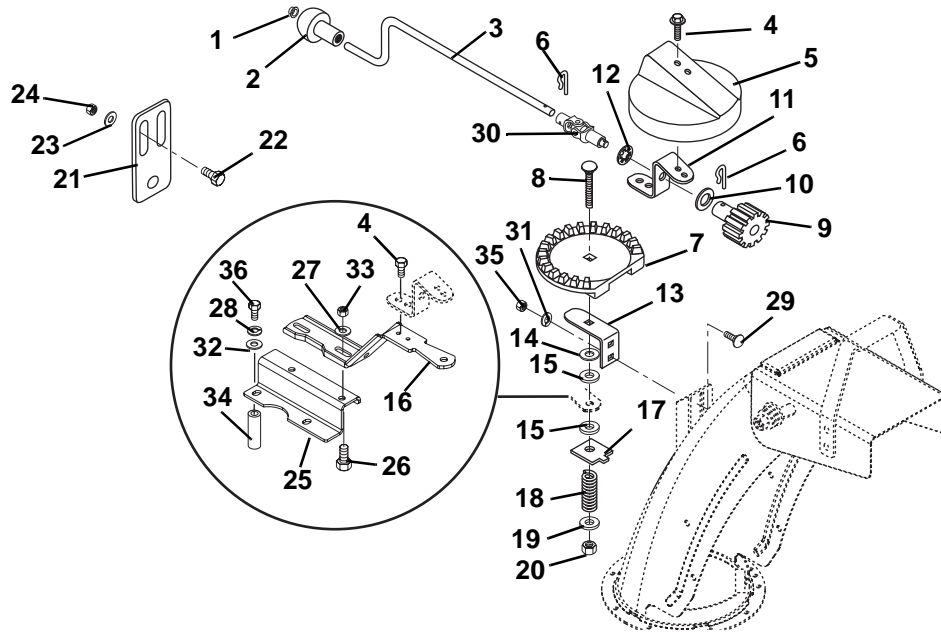


PS0710

Item	Part No.	Qty.	Description
1	06436200	2	Washer, Flat Steel .41 x .81 x .065
2	06530100	6	Nut, Lock Flange .25-20
3	06435900	4	Washer, Flat Steel .44 x 1.00 x .83
4	01320200	1	Wave Washer
5	53208700	1	Housing, 24" Blower
6	02483859	2	Runner, Double Flange
7	06529600	5	Nut, Locking .375-16
8	06435700	5	Washer, Flat Steel .38 x .88 x .083
9	01016459	1	Scraper Blade 24"
10	06529800	7	Nut, Locking Center .31-18
11	07012600	4	Fitting, Lube .25-28 x .26
12	52411600	1	Rake, Right Hand - 24" (15" O.D.) (Includes Item 11)
	52411500	1	Rake, Left Hand- 24" (15" O.D.) (Includes Item 11)
13	51001500	2	Shear Bolt Service Assembly (Includes Item 10)
14	06211800	5	Bolt, Round Head Square Neck .38-16 x .75
15	07028600	6	Bolt, Serrated Neck Slotted .25-20 x .50
16	06212200	5	Bolt, Round Head Square Neck .312-18 x .62
17	06436300	2	Washer, Flat Steel 1.01 x 1.51 x .062
18	02437451	2	Bearing Support
19	05503500	2	Bushing, Flange 1.00 x 1.12 x .62 x 1.50
20	06436400	2	Washer, Flat Steel .51 x 1.44 x .125
21	06306600	2	Washer, Lock .50 x .151
22	05947100	2	Bolt, Hex .50-13 x 1.00
23	06441100	1	Washer, Flat Steel .52 x .83 x .062
24	06416800	1	Washer, Plastic .39 x .88 x .062
25	52417400	1	Chute, Manual Discharge

# DISCHARGE CHUTE CRANK

Model 932104, 502

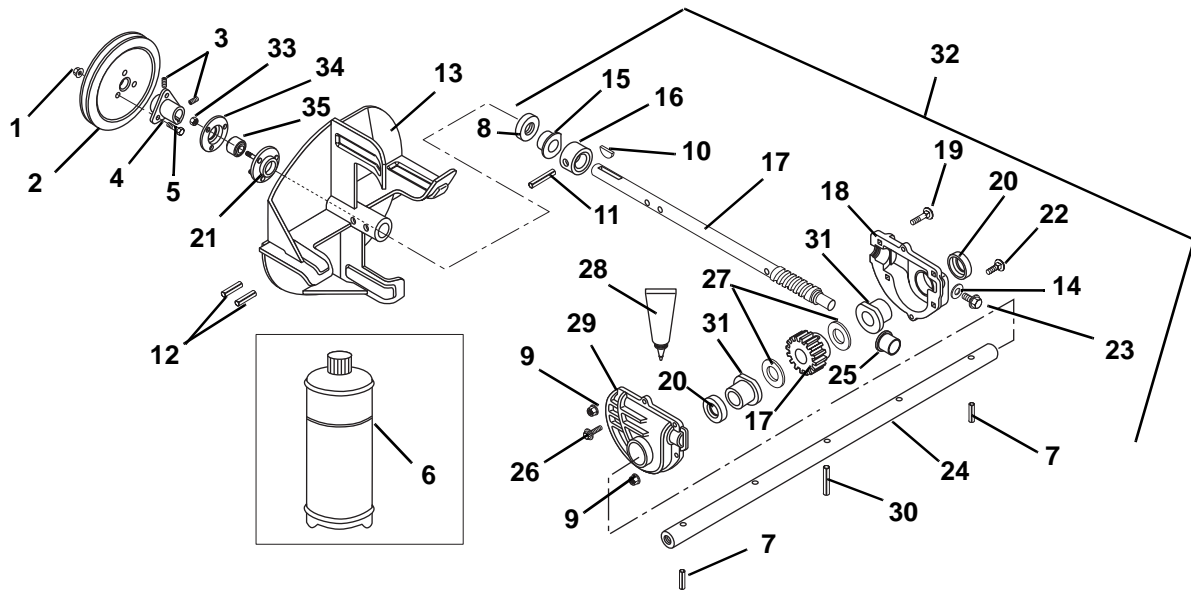


PS1060

Item	Part No.	Qty.	Description
1	01019800	1	Cap, 3/8 Rod
2	07508300	1	Knob
3	02492900	1	Crank, Chute
4	07412000	4	Screw .25-20 x .50 Hex Washer Head Self Tapping
5	03223000	1	Cover, Gear
6	06714500	2	Pin, Spring Clip
7	03222900	1	Gear, Chute
8	06224400	1	Bolt, Round Head Square Neck .38-16 x 2.50 Grade 5
9	53204400	1	Pinion Gear with Bracket (Contains Items 10-12)
10	06436100	1	Washer, Flat Steel .63 x 1.01 x .062
11	03220551	1	Bracket, Gear
12	03224300	1	Push Nut
13	03220751	1	Gear Strap
14	06439300	1	Washer, Flat Steel .38 x 1.50 x .062
15	01123800	2	Friction Washer
16	02497551	1	Bracket, Chute Support
17	03219000	1	Friction Plate
18	08320900	1	Spring, Compression .19 x .56 x 1.62
19	06436200	1	Washer, Flat Steel .41 x .81 x .065
20	06529600	1	Nut, Locking Center .38-16
21	03245051	1	Bracket, Chute Crank Support
22	05947900	2	Bolt, Hex .25-20 x .50 Grade 5
23	06437300	2	Washer, Flat Steel .281 x .62 x .065
24	06529700	2	Nut, Locking Center .25-20
25	03249651	1	Bracket, Engine Chute
26	05947000	2	Bolt, Hex .31-18 x .75 Grade 5
27	06435800	2	Washer, Flat Steel .31 x .73 x .065
28	06308600	2	Washer, Lock .31 x .08
29	06219900	1	Bolt, Round Head Square Neck .25-20 x .75
30	02495900	1	Universal Joint
31	06308400	1	Washer, Locking .25 x .062
32	06437200	2	Washer, Flat Steel .34 x .69 x .065
33	06529800	2	Nut, Locking Center .31-18
34	03233600	2	Spacer
35	06533200	1	Nut, Hex .25-20
36	05947500	2	Bolt, Hex .31-18 x 1.25 Grade 5

# GEAR CASE AND IMPELLER

Model 932104, 502

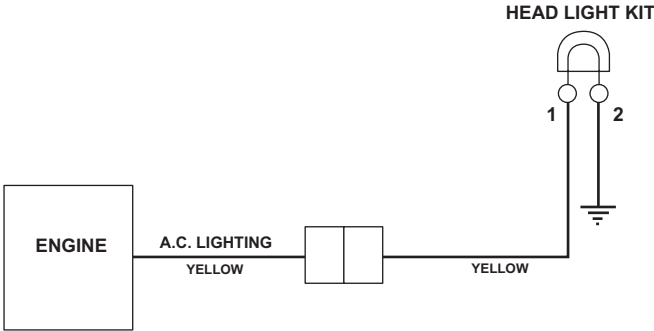
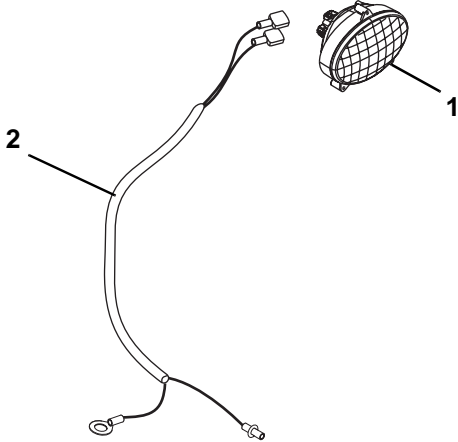


PS1070

Item	Part No.	Qty.	Description
1	06530400	3	Nut, Locking Flange .31-18
2	07316300	1	Pulley-V 8.50 x 1.25
3	06005500	2	Screw, Set .31-18 x .38
4	50202100	1	Hub Assembly (Includes Item 3)
5	07005300	3	Bolt, Serrated Round Head Slotted .31-18 x .75
6	00008000	1	Ariens 16 oz. Bottle of L2 Lube
7	05803000	2	Pin, Roll .19 x 1.50
8	05618900	1	Seal, Oil .75 x 1.38 x .31
9	06530100	4	Nut, Locking Flange .25-20
10	06600100	1	Key, Woodruff .19 x .88 x .38
11	05804500	1	Pin, Groove .19 x 1.25
12	05803700	2	Pin, Roll .25 x 1.75
13	02423751	1	Impeller 12" O.D.
14	06442500	1	Washer, Fiber .44 x .67 x .032
15	05511200	1	Bushing, Flange .75 x 1.00 x .75 x 1.25
16	03210300	1	Thrust Collar
17	53208800	1	Shaft & Worm Gear Assembly
18	02470600	1	Case, Gear Left Hand Large Bore
19	06219700	2	Bolt, Round Head Square Neck .25-20 x 1.25
20	05618800	2	Seal 1.00 x 1.38
21	00301700	1	Bearing Flange
22	06219800	2	Bolt, Round Head Square Neck .25-20 x 1.00 Grade 5
23	07412900	1	Screw, Tapping .38-16 x .50
24	02438300	1	Shaft, Rake 24"
25	05520600	1	Bushing, Flange .50 x 1.00 x .75
26	07413000	2	Screw, Tapping Hex Washer Head 10-24 x .75
27	06416600	2	Washer, Hard Thrust 1.01 x 1.54 x .062
28	00031700	1	Loctite Gasket 518
29	02470700	1	Case, Gear Right Hand Large Bore
30	05806900	1	Pin, Groove .31 x 1.44 Type C
31	05530100	2	Bushing, Flange 1.00 x 1.12 x 1.50 x .50
32	52408100	1	Gear Case, Large Bore-Aluminum 24"
33	06529700	3	Nut, Locking Center .25-20
34	01014200	1	Bearing Flange
35	05406300	1	Bearing, Ball .75 x 1.75 x .50

# ELECTRICAL AND WIRING DIAGRAM

Model 932104, 502



PS0900

Item	Part No.	Qty.	Description
1	02485000	1	Headlamp, Oval with 1156 Bulb
2	03246000	1	Harness, Wire



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