OWNERS MANUAL

Ariens

6&8 H.P. TRACTOR and SNO-THRO ATTACHMENT

SERIAL NUMBERS

MODEL 910013 - 007000 (32" Sno-Thro Attach)

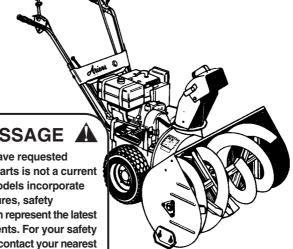
MODEL 910017 - 005000 (24" Sno-Thro Attach)

MODEL 910018 - 002001 (8 H.P. 24" w/diff)

MODEL 910019 - 000101 (6 H.P. 24" w/diff)

MODEL 910020 - 000101 (8 H.P. Tractor w/diff)

AND UP



SAFETY MESSAGE

The product for which you have requested information or replacement parts is not a current product. The replacement models incorporate product designs, safety features, safety instructions or warnings which represent the latest "State Of The Art" developments. For your safety and those around you please contact your nearest Ariens/Gravely Dealer for a demonstration of the current product safety provisions and features.

PART NO. 10497B

PRICE \$.50

WARRANTY

Ariens Company hereby warrants to the original retail purchaser all new products of its own manufacture to be free from defects in material and workmanship, for a period of one year except when used commercially or for rental purposes in which case the warranty period shall be for 45 days from date of original purchase, subject to the following exceptions:

- Engine parts and service must be handled by the respective engine manufacturer.
- A 90 day warranty will be extended on belts, tires, throttle controls, or any other items subject to normal wear:
- 3. No warranty is extended to any equipment which has been misused, neglected or domaged by accident. Ariens Company shall not be responsible for damage in transit or handling by any common carrier, and under no circumstances, within or without the warranty period, will the Company be liable for damages for loss of use, or damages resulting from delay, or any consequential damages.

It is the eonsumer's responsibility for: (1) Normal maintenance as greasing, gear case lubrication, minor adjustments, etc. (2) Transportation of any Ariens product to and from the place the warranty work is performed. Ariens warranty WILL NOT APPLY to any products repaired or altered by anyone other than an Authorized Service Distributor or Authorized Service Dealer.

Any transportation charges incurred on any equipment claimed defective, which shall include time and expense of the distributor or dealer for pickup, and/or return of the equipment, shall be borne by the nurrhoser.

Ariens Company reserves the right to incorporate any changes in design into its products without obligation to make such changes on units previously manufactured.

DISCLAIMER OF FURTHER WARRANTY

There are no warranties, expressed or implied, except as set forth above. There is no warranty of merchantability. There are no warranties which extend beyond the description of the product contained herein. In no event shall the company be liable for indirect, special or consequential damages (such as loss of anticipated profits) in connection with the retail purchaser's use of the product.

Ariens

FIRST



Know your controls and how to stop quickly. Do not operate without proper instructions. Read the owner's manual.

Handle gasoline with care. It is highly flammable. Never add gasoline to a running or hot engine. Wipe up spilled gasoline. Do not run or fill engine indoors. Exhaust fumes are dangerous. Keep safety devices in place. Keep all nuts, bolts and screws tight.





Inspect work area and clear of objects which might be picked up and thrown.

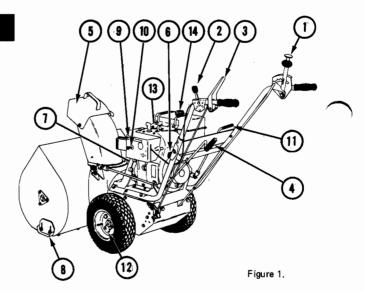
Keep children and pets a safe distance away. Never direct discharge at bystanders nor allow anyone in front of machine.



Disengage clutch and stop motor before cleaning and discharge, removing obstacles, making adjustments, and when leaving operating position. Never use hands to clear snow from rakes or discharge chute.

CONTROLS

- SPEED SELECTOR: Sets speed of tractor. Change speed or shift to reverse, without depressing clutch handle.
- THROTTLE: Controls engine speed. Move throttle to stop position to stop engine. Move throttle to park position after engine has stopped.
- TRACTOR CLUTCH: Activates tractor drive. Depress to move tractor, release to stop.
- HAND CRANK: Turns discharge chute 240° so snow can be thrown away from area being cleared.
- DEFLECTOR: Controls the height the snow can be thrown.
- RECOIL STARTER: Pull to start engine.
- SNO-THRO CLUTCH: Activates auger and impeller.
- RUNNERS: Controls the distance the scraper blade is held above the surface being cleared.
- CHOKE: Move choke to choke position to start engine.



- PRIMER: Choke should be in choke position when priming engine. Depress and hold primer while pulling recoil starter once. Release primer, pull recoil starter to start engine.
- ENGINE CLUTCH: Engage Sno-Thro clutch before engaging engine clutch, lift handle to engage. CAUTION: Ease in handle to avoid belt damage.
- DIFFERENTIAL LOCK: In position, both wheels pull for snow removal. Out position, engages differential for easy turning with lawn attachments.

OPERATION

BEFORE STARTING:

Fill crankcase (13) with Ariens Sno-Thro oil 5W-20 when using Sno-Thro.

Use Ariens Gard-N-Yard oil MS classification SAE-30 oil when using lawn attachments.

Fill fuel tank (14) with fresh, clean, regular gasoline.

Do not mix oil with gasoline.

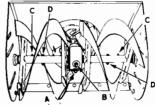
Make visual check with regards to safety precautions, obstructions, lubrication and maintenance.

CAUTION:



If tractor is to be used with lawn attachments, be sure heater box is removed and air cleaner installed. Follow detailed instructions packed with attachment.

Figure 2.



TO START:

Move speed selector (1) to neutral. Move engine clutch (11) to out position. Move choke lever 1 to choke position.

Move throttle 2 to fast position.

Pull recoil starter 6 to start engine. Depress and hold

primer for one pull if temperature is below 100 fahrenheit.

Move choke (9) to no choke gradually as engine warms up.

TO TRANSPORT:

Move Sno-Thro clutch (1) to out position. Engage engine clutch (11).

Move speed selector 1 to desired speed.

Press downon handle bars to raise front of Sno-thro slightly off the ground.

Depress tractor clutch (3) to transport unit.

TO OPERATE:

Disengage engine clutch 11.

Move deflector 5 to desired height.

Turn hand crank 4 to direct discharge chute.

Engage engine clutch 11.

Move Sno-Thro clutch 7 to in position. Move speed selector 1 to desired speed. Move throttle (2) to desired speed.

Depress tractor clutch (3) to move tractor.

Speed of the machine is controlled by the throttle and speed selector.

TO STOP:

Release tractor clutch (3) Disengage engine clutch (11) Disengage Sno-Thro_clutch (1) Move speed selector (1) to neutral. Move throttle (2) to stop.

Move throttle to park after engine has stopped.

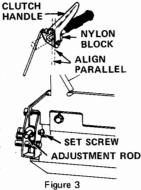
MAINTENANCE

RUNNERS

An adjustable runner is provided on each side of the blower housing. Raising or lowering these runners controls the distance the scraper blade is held above the surface being cleared. Runner adjustment is accomplished by loosening the two nuts on each runner. Move to the desired position and retighten the nuts. In wet snow which packs easily, it may be necessary to remove the runners or turn them upside down so the scraper blade will scrape

DRIVE DISC ADJUSTMENT
Be sure clutch handle is adjusted parallel to nylon block, as shown when in the RELEASED POSITION.

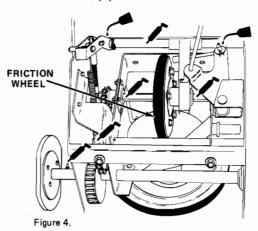
Loosen set screw. Move shift lever to NEUTRAL. Depress clutch handle completely down and secure in engaged position. With clutch engaged, turn adjustment rod in or out until friction wheel (See fig. 4) just starts to slip when pushing Sno-Thro FORWARD on the floor. Release clutch handle. Readjust drive by turning adjustment rod two full turns in (clockwise).



NOTE: Be sure to readjust drive when installing new friction wheel.

STORAGE

ENGINE: Follow detail instructions in the engine manual. SNO-THRO: Lubricate, clean and repaint as necessary. Cover and store in dry place.



LUBRICATION

ENGINE

Fill crankcase (13) with Ariens Sno-Thro oil 5W-20 when using Sno-Thro.

Use Ariens Gard-N-Yard oil MS classification SAE-30 when using lawn attachments.

Fill fuel tank (14) with fresh, clean, regular gasoline.

NOTE: For detailed instructions on engine refer to manufacturer's booklet packed with the machine.

TRACTOR DRIVE

At start of season, grease gears, hex and axle shaft as indicated in figure 4. Use Ariens Moly Lithium grease.

Put two or three drops of light oil on shift lever and other linkage points. CAUTION: Do not allow grease or oil to come in contact with friction wheel, drive disc or belts.

SNO-THRO UNIT

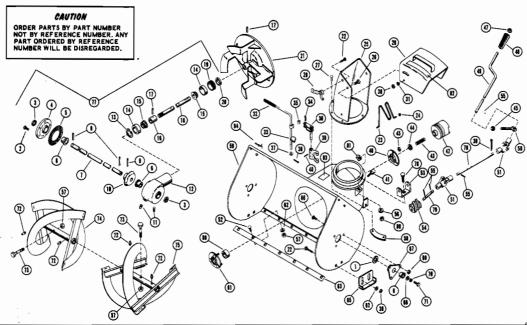
Drain and refill Sno-Thro gear case with about five ounces of Ariens Premium Gear Lubricant MP-90 every 25 hours operation.

To drain and refill, remove fill plug (B), remove drain plug (A) and allow oil to drain. Tip machine back on handle bars. Pour oil into fill hole (B) until it starts to run out of drain hole. See figure 2.

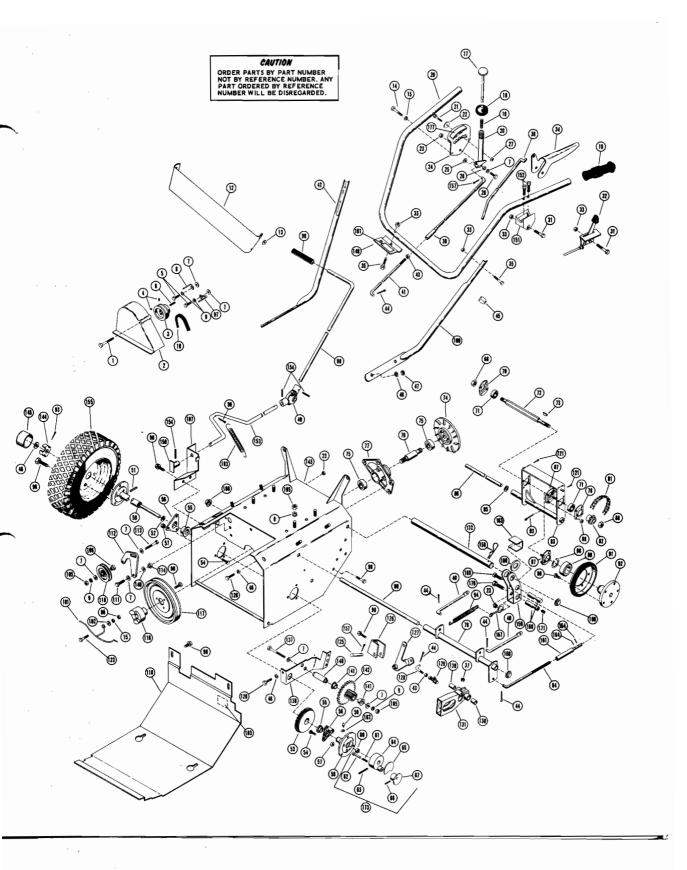
Replace drain and fill plugs. Grease rake shaft (C) periodically or each time a shear bolt (D) is replaced. At the end of season, remove shear bolts, grease rake shaft, turn rakes on shaft several times and replace shear bolts. Use Ariens Moly Lithium grease.

SERVICE MANUAL

Service Technique Manual is available. Order by number 000019 and remit \$2.50 to Ariens Co., 655 W. Ryan St. Brillion, Wis. 54110.



REF NO.	PART NO.	DESCRIPTION	910019	910013	910017 EG	910018	REF NO.	PART NO.	DESCRIPTION	910019	910013 O	910017 BEQ,	910018
1	64046	Washer 1.505 O.D. x 1.005 I.D. x 1/16	2	2	2	2	49	10487	Chute Control Crank (For 8 H.P. Only)		1	1	1
2 3	70012 56061	Flange Whizlock Screw 1/4-20 x 3/4 Seal	5 2	5	5 2	5 2	49	10478	Chute Control Crank	1	1	1	
4	10181	Gear Case Flance	í	1	1	í	50 51	10289 622010	Rod Hanger Universal Joint	1	1	1 2	1
5	10108	Gasket	i	i	i	i	52	62026	Carriage Bolt 5/16-18 x 5/8	5	7	5	2 5
6	55035	Bushing	4	4	4	4	53	22123	Worm Clevis	1	í	1	1
7	10384	Front Gear Shaft 32"		1			54	22110	Worm Gear	i	1	i	i
7 8	10299 58030	Front Gear Shaft 24" Roll Pin 3/16 x 1-1/2	1 2	2	1 2	1 2	55	58034	Roll Pin 1/8 x 3/4	1	4	4	4
g	58022	Roll Pin 5/16 x 1-1/2	1	1	1	1	56	63023	Lockwasher	1	1	1	1
*1ŏ	10183	Helicon Gear	i	i	1	i	57 58	65042 10438	Locknut 5/16-18 Chute Clamp	7	9	7	7
11	1138	Pipe Plug 3/8 Sq. Hd.	ż	ż	2	ż	58 59	510010	Blower Housing 24"	3	3	3 1	3 1
12	10180	Gear Case	1	1	1	1	59	510010	Blower Housing 32"	'	1	'	•
13	57032	Snap Ring	1	1	1	1	60	54063	Ball Bearing	1	i	1	1
14	54044	Bearing Cup	2	2	2	2	61	3017	Bearing Flange	i	1	1	i
15 16	54045 10107	Bearing Cone Bearing Spacer	2 1	2	2	2	62	64002	Washer 5/16	9	11	9	9
17	58007	Roll Pin 1/4 x 1-1/4	3	3	3	3	63	10387	Scraper Blade		1		
*18	10177	Helicon Pinion Shaft	1	1	1	1	63 65	10164 10165	Scraper Blade Runner	1 2	•	1 2	1
19	10371	Adjustment Plug	i	1	1	i	66	70011	Ribbed Neck Bolt 1/4-20 x 5/8	6	2 6	6	2 6
20	56062	Seal .	1	1	1	1	67	10184	Bearing Support	2	2	2	2
21	10178	Fan	1	1	1	1	68	65056	Whizlock Nut 1/4-20	6	6	6	6
. 22	62010	Carriage Bolt 3/8-16 x 3/4	5	5	5	5	69	64047	Washer 1,441 O.D. x .511 I.D. x 1/8	2	2	2	ž
23 24	10393 22122	Safety Wire Fastener	1 2	1 2	1 2	1	70	63006	Lockwasher 1/2 Std.	2	2	2	2
25	10437	Discharge Chute	1	1	1	1	71	59024	Cap Screw 1/2-13 x 1 H.H.	2	2	2	2
26	59023	Cap Screw 3/8-16 x 3/4 H.H.	2	,	2	2	72 73	22093 10195	Zerk Fitting Shear Bolt	4 2	4	4	4
27	74026	Taptite No. 10-24 x 3/8	6	6	6	6	74	524003	R.H. Rake 32" Includes Zerks	2	1	2	2
28	10193	Wing Nut	1	1	1	1	74	510007	R.H. Rake 24" Includes Zerks	1	'	1	1
29	510012	Deflector	1	1	1	1	75	524004	L.H. Rake 32" Includes Zerks	•	1	•	•
30	65039	Locknut 3/8-16	6	6	6	6	75	510008	L.H. Rake 24" Includes Zerks	1	-	1	1
31 32	63004 75004	Lockwasher 3/8 Std. Grip 1/2 I.D.	2 1	2	2	2	76	62011	Carriage Bolt 5/16-18 x 3/4	1	1	1	1
32	10390	Fork Cam	i	i	i	i	77	510002 610984	32" Gear Case Assembly 24" Gear Case Assembly		1		
34	58017	Roll Pin 5/16 x 1-1/4	i	1	i	i	78	10488	Connector Rod	1	1	1	1
35	3034	Roller	1	1	1	1	79	10494	Worm Shaft		i	i	i
36	10186	Fork Shaft	1	1	1	1	80	65015	Nut 5/16-18	1	í	i	i
37	10260	Wave Washer	1	1	1	1	81	70026	Nut Retainer 3/8-16	2	2	2	2
38 39	67004 1008	Cotter Pin 1/8 x 1 Clutch Fork	2	2	2	2	82	78222	Caution Label	1	1	1	1
40	58016	Roll Pin 3/16 x 1	2	2	2	2	83 84	78055	Clutch Instruction Decal	!	1	1	1
41	70031	Flange Whizlock Screw 3/8-16 x 3/4	2	2 2	2	2	84	78174	Ariens Nameplate	1	- 1	1	1
42	10176	Jaw Clutch	ī	1	1	1	NOTE	*101	83 and 10177 Sold In Pairs Only				
43	83014	Spring	1	1	1	1	I	.01					
44	64048	Washer 1,375 O.D. x .755 I.D. x 1/16	1	1	1	1		Use A	Ariens MP 90 Premium Gear Lubricant				
45 46	65040 10142	Locknut 1/4-20 Bearing Flange	4	4	4	4		in 10	180 Gear Case				
46 47	10142	Cap	1	2	2	1							
48	75039	Grip	í	2	2	1	l						



DEE DADI	DA 57	07001	N	EQ'D					O. REQ'D	
REF NO.	NO.	STOCK CODE	DESCRIPTION	910019	910018	REF NO.	NO.	CODE	DESCRIPTION	99
!	70013	M	Belt Cover Bolt	!	1	99 101	75013 10492	M	Grip Belt Finger	1 1
2 3	10500 10238	M	Outer Belt Guard Engine Sheave	1	- 1	102	64007	M	Washer - 1/4 Std.	. !
3	10477 60012	M M	Engine Sheave Setscrew - 5/16 - 18 x 3/8 Nylok	2	1 2	103 105	83004 65015	M	Spring Nut - 5/16-18 Hex, Plated	1 1
5	59053	8	Cap Screw - 5/16-24 UNF x 3/4 H.H., Z.P.	2	2	106 107	10360 10479	M M	Bearing Spacer	!!
6 7	10160 64002	F M	R.H. Belt Finger Washer - 5/16 Wrought Plated	1 9	1 9	108	12086	M	Clutch Bracket Cap	3 3
8	66013	S	Key - SAE 1035	1	1	109 109	10157 10356	M M	L.H. Lower Handle Bar L.H. Lower Handle Bar	1 1
8 9	66018 63003	S M	Key Lockwasher - 5/16 SAE Std. Plated	8	8	110	12132	M	ldler	1 i
10 10	72047 72072	F	Belt Belt	1	1	111	59069 10389	M	Cap Screw - 5/16-18 UNC x 1-1/4 H.H., Plate	1 1
12	2033	0	Handle Bar Panel	1	i	113 114	59073 10361	M M	Cap Screw 5/16-18 UNC x 1-3/4 H.H., Plated	1 1
13 14	10196 59056	M S	Handle Bar Washer Cap Screw - 1/4-20 UNC x 1-1/4 H.H. Plated	1 2	2 2	116	10206	F M	Shoulder Spacer Jaw Coupling	ii
15	63002	S M	Lockwasher - 1/4 SAE Std., Plated Grip	3	3	117 118	10239 10460	S	Driven Sheave Bottom Cover	1 1
16 17	75006 10293	S	Shift Release Handle	1	1	120	59023	M M	Cap Screw - 3/8-16 UNC x 3/4 H.H., Plated	4 4
18 19	10248 83015	S M	Shift Bell Spring	1	1	121 122	67019 10545	M	Hair Pin Cotter Clutch Rod	2 2
20	10232	S	Shift Handle	1	1	123 125	59001 10144	M M	Cap Screw - 1/4-20 x 3/4 Clevis Pin	. 1
21 22	59072 64037	M M	Cap Screw - 1/4-20 UNC x 1-1/4 H.H., H.T. Washer - 9/32 I.D. x 1-1/4 O.D. x 1/16 Plate	d 1	1	126	. 10215	S	Lever Bracket	i i
23 24	65042 10231	M S	Locknut · 5/16-18 Hex, Plated Shift Quadrant	3	3 1	127 128	10476 10484	S.	Transfer Lever Connecting Link	1 1
25	64043	M	Washer - SAE 3/8-13/32 I.D. x 13/16 D.D.	Ċ		129	3086	F M	Ball Joint	1 1
26	6071	м	x 1/16 Plated Spacer Bushing	1	1	130 131	55040 510009	S	Bushing Sliding Fork (Includes Bushing)	1 1
27	65070	M	Locknut - 1/4-20 Cap Screw - 5/16-18 UNC x 3/4 H.H., Z.P.	1	1	137 138	59074 10462	M S	Cap Screw - 5/16-18 UNC x 2-3/4 H.H., Plate Support Bracket	1 1
28 29	59022 10464	M	Upper Handle Bar	'	i	140	10208	S	Pinion Stub Shaft	i i
29 30	10463 67018	M M	Upper Handle Bar Cotter Pin · 1/8 × 1/2	1	1	141 142	55026 524002	M M	Bushing Pinion and Sprocket (Includes Bushings)	2 2
31	59062	M	Cap Screw - 1/4-20 x 1-3/4	2	2	143	10458	0	Tractor Frame	i]
32 32	69085 69086	F F	Throttle Control Throttle Control	1	1	143 144	10459 3376	S	Tractor Frame Spindle Cup	1 1
33	65040	M	Locknut - 1/4-20 Hex, Plated Clutch Handle	7	7	145 148	3377 64038	S S	Hub Cap Washer .505 I.D755 O.D. x 34 GA.	1 1
34 35	22071 59050	M	Cap Screw - 1/4-20 UNC x 1-1/2 H.H. Plated	d 5	5	149	10483	S M	Rod Hanger Bracket	ii
36 37	10465 65043	S M	Clutch Rod Locknut - 5/16-24 Hex, Plated	1	1	150 151	10481 22129	S	Clutch Interlock Lever Handle Pivot	1 1
39	10235	M	Upper Shift Rod	1	1	152	74039	S M	Tapping Screws Engagement Rod	2 2
40 41	10472 10228	s s	Clutch Link Lower Shift Rod	2 1	2 1	153 154	10480 58034	S M	Roll Pin	4 4
42	10196 10355	M N	R.H. Lower Handle Bar R.H. Lower Handle Bar	1	1	155	610985	TVI	Tire and Wheel Assembly consisting of: Reg'd per Wheel	2 2
42 43	65031	8	Nut - 5/16-24 Hex, Plated	2	2	l				
44 45	67001 69012	M	Cotter Pin - 3/32 x 3/4 Plated Cable Clamp	5 1	5 1	l			71046 Tire (Carlisle Stud Tread Tire Available Only) 1	
46	63004	M	Lockwasher · 3/8 SAE Std. Plated	8	8				71050 Tube 1 71052 Rim 1	
47 48	65018 10366	M M	Nut - 3/8-16 Hex, Plated Push Nut	1	i	157	67004	M	Cotter Pin 1/8 x 1 Plated	2 2
49 50	622010 10370	M M	Universal Joint R.H. Axle Shaft	1	1	158 159	67002 10541	S M	Cotter Pin Clutch Engagement Yoke	1 1
51	58003	M	Roll Pin - 3/16 x 1-1/4	į	į	160	64058	S M	Washer500 to .505 I.D. x 1 O.D. x .062	1 1
52 53	64036 612999	· M M	Washer880 I.D. x 1.3880 O.D. x .062 Differential Assembly	1	ł	161 162	10543 63025	S	Adjustment Tube Lockwasher	1 1
53 54 55	70011 55030	M M	Ribbed Neck Bolt - 1/4-20 x 5/8 Plated Bushing	6	6	163 164	10542 58035	M	Adapter Spacer Roll Pin 1/8 x 1/2	1 1
56	12023	M	Bearing Support	2	2	167	10540	M M	Spring Hook	1 1
57 58	65056 22093	M	Flange Whizlock Nut - 1/4-20 Plated Zerk Fitting	6 1	6 1	168 169	22135 60026	M	Rod Adapter Setscrew - 5/16-18 x 1/2	2 2
59	610938	M	L.H. Axle Bushing	1	1 2	170 171	59002 60012	M M	Cap Screw - 5/16-18 x 5/8 Setscrew - 5/16-18 x 3/8	1 1
60 61	55029 83007	M	Spring	í	í	172	10545	M	Clutch Rod	ii
62 63	10374 58042	M	Pin Groove Pin	1	1	173 174	510004 10373	M 0	Lockout Hub Assembly Carburetor Cover	1 1
64	10372	. M	Lockout Hub Differential Lock Decal	1	1	177	78016	0	Sno Shift Label Label - In-Out	! !
65 66	78038 58032	S M	Roll Pin - 3/32 x 1	i	į	181 183	78230 78296	S	Disc Adjustment Decal	ii
67 68	10375 65054	M M	Knob Locknut · 1/2·20 Hex, Centerlock	1 2	1 2		78010	0 0	Helicon Patent Label (Not Illus.)	1 1
69	65094	M	Locknut - No. 10-24 Plated	8	8		78189 78231	0	Air Cleaner Decal (Not Illus.) Engine Label (Not Illus.)	; ;
70 71	3031 54080	. M	Bearing Flange Ball Bearing	2	2		78191	0	Engine Decal - 8 H.P. (Not Illus.) Engine Decal - 6 H.P. (Not Illus.)	, 1
72 73	10275	\$ \$	Hex Shaft Key - Woodruff No. 5	1	!	I	78225 75040	Š	Plug (Not Illus.)	i 1
74	66015 10546	M	Drive Plate	i	į					
75 76.	54063 10548	M M:	Ball Bearing Spindle	2 1	2				NOTILLUSTRATED	
77	10547	M	Bearing Housing	1	!	l			*6 H.P. Engine (Tecumseh HSK-60	1
79 80	10513 10471	s s	Front Clutch Lever Rod	1	i				75361J) or Replacement	
81 82	10237 10276	M	Chain Sprocket	1	1				*8 H.P. Engine (Tecumseh HSK-80 155020) or Replacement	1
83	10473	s	Disc Bracket	,	į					
84 85	10544 64038	S S	Adjustment Link Shim Washer505 I.D. x .775 O.D. x 24 Ga	1 a. 1	1				*Order Replacement Engine And/Or Engine Replacement	
86	10212	s	Bracket Pin	1	1				Parts From Your Nearest	
87 88	3085 57043	S M	Bearing Flange Snap Ring	1	2 1				Engine Service Central.	
89 90	54074 70009	M M	Thrust Bearing Flange Whizlock Screw - 5/16-18 x 2/2 Plate	1 nd 19	1 18		SU	IGGESTE	D PARTS STOCK CODE	
91	3003	F	Friction Wheel	1	!					
92 93	10277 67014	M F	Friction Disc Hub Cotter Pin - 1/8 x 1-1/4 Plated	1	1				oving Parts	
94 95	83089	M	Spring Nut 1/4-20	1	1				n Moving Parts	
96	65032 70032	S	Wheel Bolt - 1/2-20	6	6				oving Parts	
97	10161	M S	L.H. Belt Finger Clutch Handle	1	1	1	U	= Custom	er Order Only	