PARTS MANUAL

SERIAL NUMBER

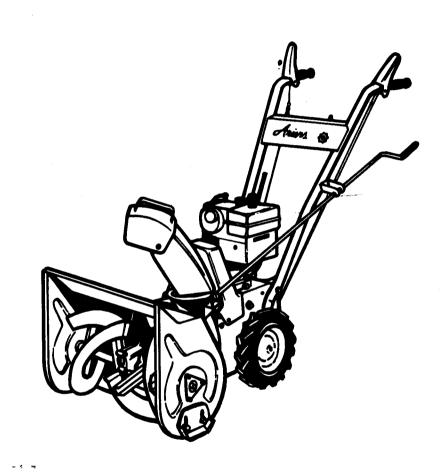
MODEL NUMBER 932001 - 2.7 H.P. SERIAL NUMBER 000101 & UP

PM-32-77

PRICE \$.50

Ariens

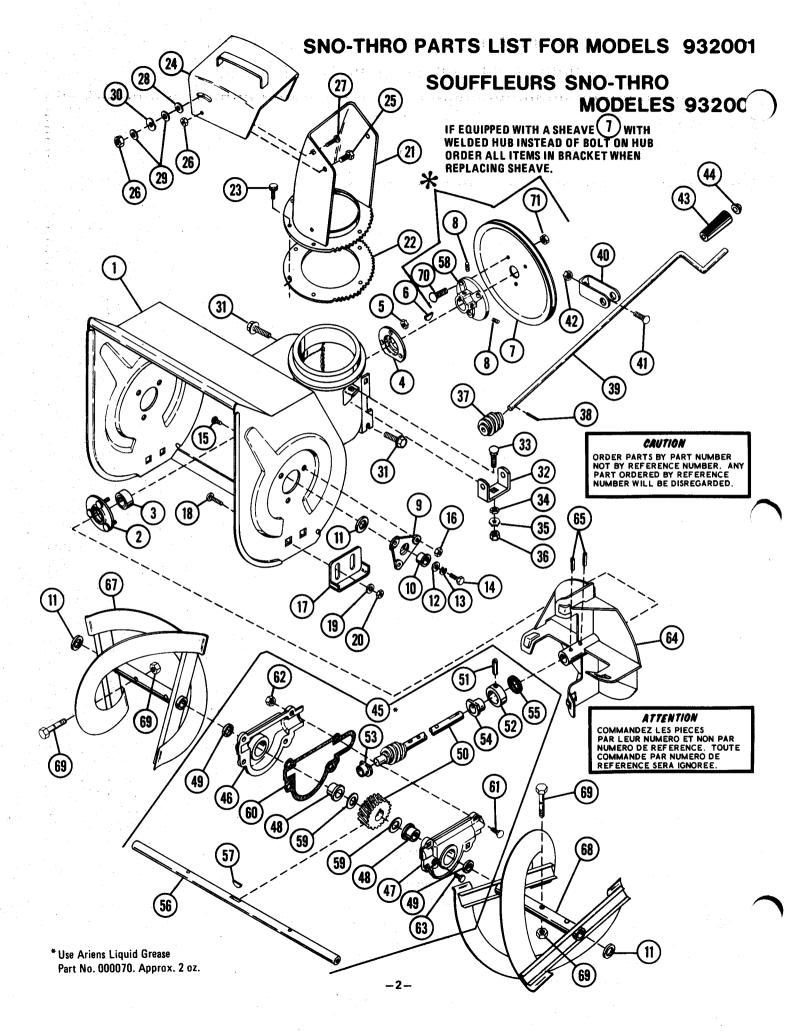
2.7 HP. COMPACT SNO-THRO



ARIENS COMPANY



BRILLION, WIS. 54110

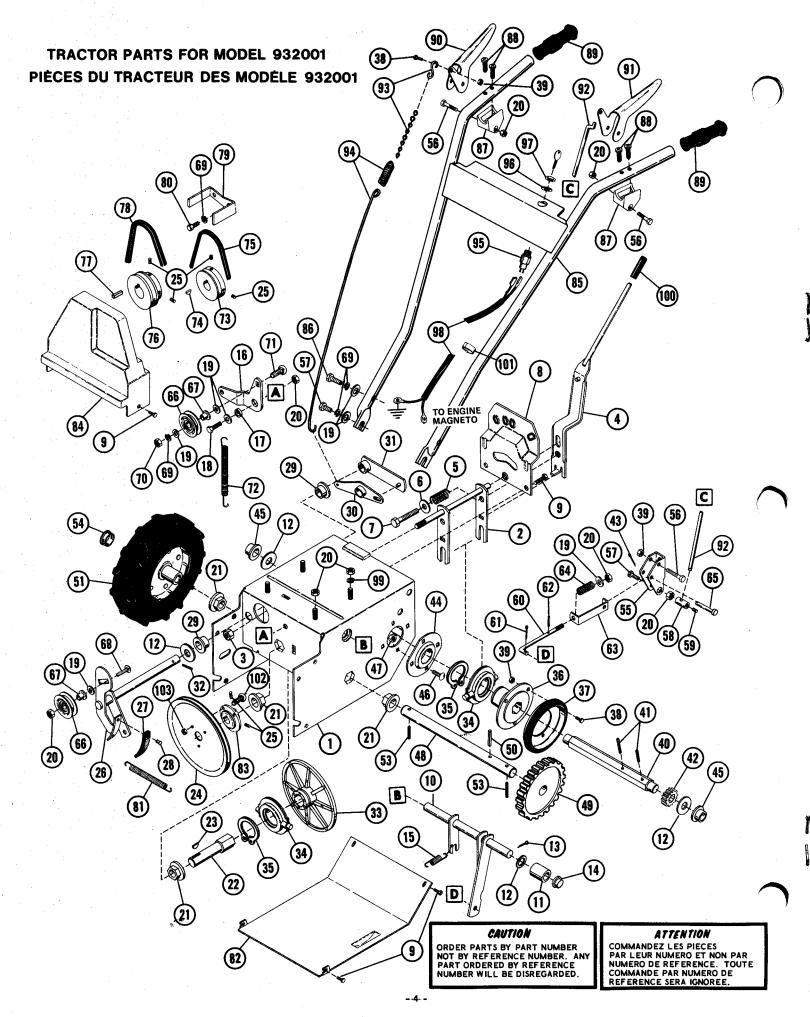


SNO-THRO PARTS LIST FOR MODELS 932001 SOUFFLEURS SNO-THRO MODELES 932001

	No DE PIÈCE		-	UANTITÉ		No DE C			QUANTITÉ				
			DESCRIPTION	*.				DESCRIPTION					
REF. NO.	PART ST NO. CO	OCK ODE	1	NO REQ'D	REF.	PART ST NO. CO			NO REQ'D				
1 2	532003 010142	S M	BLOWER HOUSING, W/Decais BEARING FLANGE	1	36 37	065015 022110	M / M/	NUT, Hex, 5/16-18 WORM GEAR	1				
3	054063	F	BEARING, Radial	1	38	058034	M	ROLL PIN, 1/8 x 3/4	1				
4	003017	M	BEARING FLANGE	1	39 40	022081 532004	S M	CHUTE CONTROL CRANK BRACKET, W/Decal	1 .				
5	065040 066001	M M	LOCKNUT KEY, Woodruff, SAE 11	3 1	41	062001	M	CARRIAGE BOLT, 1/4-20 x 1-1/4	i				
6 7	073080	M	SHEAVE	i	42	065040	M,	LOCKNUT, 1/4-20	1				
8	060005	M	SET SCREW	2	43	075039	M	GRIP	1				
9	032044	M	SUPPORT, Bearing	2	44	010198	М	CAP	1				
10	055113	F	FLANGED BUSHING	2	45	532002	M	GEAR CASE ASSEMBLY	. 1				
11	064009		WASHER, 3/4 STD.	4	46	032032	S	GEAR CASE, Right Half	1				
12	064128	M	WASHER	2 2	47 48	032033 055102	S F	GEAR CASE, Left Half FLANGED BUSHING	2				
13 _. 14	063003 059002	M M	LOCKWASHER 5/16 STD. CAP SCREW, 5/16-18 x 5/8, GR 2	2	49	056043	F	SEAL	2				
15	070011	M	RIBBED NECK BOLT 1/4-20 x 5/8	6	50	532001	M	FAN SHAFT & WORM GEAR	1				
16	065056	M	FLANGED WHIZ LOCKNUT 1/4-20	6	51	058003	M	ROLL PIN, 3/16 x 1-1/4	1				
17	010165	F	RUNNER	2	52	032035	S	THRUST COLLAR	1				
18	062010	M	CARRIAGE BOLT, 3/8-16 x 3/4	4	53	055111	F	FLANGED BUSHING	1				
19	064002	M	WASHER, 5/16 STD.	4	54	055112	F	FLANGED BUSHING	1				
20	065039	M	LOCKNUT, 3/8-16	4	55	056058	F S	"O" RING	1				
21	022159	S	CHUTE, Discharge	1	56 57	032036 066014	M	RAKE SHAFT KEY, Woodruff, SAE 61	· i				
22 23	022160 074034	S	GEAR, Lower Collar TAPTITE	ι. 6	58	002862	M	HUB	1				
23 24	522006	S	DEFLECTOR CHUTE W/Decal	1	59	064161	М	WASHER	2				
25	059039	M	CAP SCREW, 5/16-18 x 1/2, GR 2	2	60	032038	F	GASKET	1				
26	065042	M	LOCKNUT, 5/16-18	3	61	062012	M	CARRIAGE BOLT, 1/4-20 x 3/4	4				
27	062034	M	CARRIAGE BOLT, 5/16-18 x 3/4	1	62	065056	М	FLANGED WHIZLOCK NUT	0/0.10 1/2 1				
28	064168	M	WASHER, Plastic 5/16	1	63	070010	M	FLANGE WHIZLOCK SCREW	3/8-16 x 1/2 1				
29	064123	M	WASHER, 5/16 STD	2	64 65	032040 058007	M	FAN ROLL PIN, 1/4 x 1-1/4	2				
30	013202	М	WAVE WASHER FLANGE WHIZLOCK SCREW 5/16-18 x	: 1/2 4	66	064009	M	WASHER, 3/4 STD.	2				
31 32	070009 022123	M S	WORM CLEVIS	1	67	032041	S	RAKE, Right	1				
33	062011	M	CARRIAGE BOLT, 5/16-18 x 3/4	i	68	032042	S	RAKE, Left	1				
34	063032	M	LOCKWASHER	1	69	532005	F	SHEAR BOLT W/Nut	2				
35	063023	M	LOCKWASHER	1	70	070053	M	RIBBED NECK BOLT	3				
					71	065078	M	FLANGE WHIZLOCK NUT	ა				
	•		•										
*If	equipped v	with a	sheave 7 with welded hub instead of	f bolt on hub,									
			pracket when replacing sheave.										
					ı								
	0100000000 01 DT0 07000(NO 0000						CODE SUGGÉRÉ D'INVENTAIRE DES PIÉCES						
SUGGESTED PARTS STOCKING CODE F - FAST S - SLOW						F - FAST (rapide) S - SLOW (lent)							
		MED		RONLY				M (moyen) O - Commande	du client seulement				
	iķi	MED	IGW 0 - COSTOMEN CHOEF			141 141L		OTE: DÉCALOUES (voir p. 8.)					

NOTE: DECALS SEE PAGE 8.

NOTE: DÉCALQUES (voir p. 8.)



TRACTOR PARTS FOR MODEL 932001 PIÈCES DU TRACTEUR DES MODÈLE 932001

	DE No DE		V	QUANTITÉ		No DE PIÉCE		DECODINATION	QUANTITÉ	
	F. PART NO.	STOCK CODE		NO. REQ'D.	REF. F NO.		STOCK CODE	DESCRIPTION	NO. REQ'D.	
1			TRACTOR FRAME	1	56	05906		CAP SCREW, 1/4-20 x 1-3/4, GR 2	3	
3		_		1	57	05902		CAP SCREW, 5/16-18 x 3/4 GR 2	3	
4			LOCKNUT 3/8-16 SHIFT HANDLE	1 1	58 59	02213		ROD ADAPTER	1	
5			SPRING		60	06001 03202		SETSCREW 5/16-18 x 3/8 ROD, Traction Clutch	1	
6			WASHER, 5/16 STD	1	61	06702		HAIR PIN, 3/32 x 1-3/16	1	
7	059045		CAP SCREW, 5/16-18 x 1-1/2 GR 2	i	62	05803		ROLL PIN, 1/8 x 1/2	1	
8			QUADRANT	1	63	03202		STRAP	i	
9			FLANGE WHIZLOCK SCREW 1/4-20 x 3	/8 8	64	08309	1 M	BRAKE SPRING	1	
10			CLUTCH FORK	1	65	00281		CLEVIS PIN	. 1	
11		-	SPACER 1/2 OTD	1	66	01213		IDLER	2	
12 13			WASHER, 1/2 STD PIN, Cotter, 1/8 x 1	4	67 60	01213		BEARING SPACER	2	
14			CAP	1	68 69	062023 063003		CARRIAGE BOLT, 5/16-18 x 1-3/8	1	
15			SPRING, Extension	<u>'</u>	70	06501		LOCKWASHER 5/16 STD NUT 5/16-18	b .	
16			IDLER ARM	i	71	06204		CARRIAGE BOLT 5/16-18 x 1-1/4	1	
17			SPACER BUSHING	1	72	08317		SPRING, Extension	i	
. 18		M	CAP SCREW, 5/16-18 x 5/8 G R 2	1	73	032018	3 S	SHEAVE, Camshaft	i	
19			WASHER, 5/16, STD	9	74	06601		KEY, Woodruff, SAE 5	1	
20			LOCKNUT, 5/16-18	8	75	07210		VEE BELT	1	
21			FLANGED BUSHING	4	76	032019		SHEAVE, Engine	1	
22 23			HEX SHAFT KEY, Woodruff, SAE 9	1	77 78	066013		KEY, Straight, 3/16 x 3/16 x 1	1	
24			SHEAVE	1	78 79	072107 032020		VEE BELT	1	
25			SETSCREW 1/4-20 x 1/4	6	80	059053		BELT FINGER CAP SCREW, 5/16-18 x 1/2 GR 2	1	
26			BRAKE CLUTCH ARM W/Lining	1	81	083171		SPRING, Extension	1	
27	022178	S	BRAKE LINING	i	82	032021		COVER, Bottom	i	
28			RIVET	2	83	032050	S	HUB	1	
29			FLANGED BUSHING	2	84	032022		BELT COVER	1	
30			LEVER	1	85	532006		HANDLEBAR W/Decai	1	
31			LEVER CLUTCH	1	86	059069		CAP SCREW, 5/16-18 x 1-1/4, GR 2	2	
32 33		M M	ROLL PIN, 5/32 x 7/8 FRICTION PLATE	1	87 88	022129 074039	_	HANDLE PIVOT	2	
34			BEARING FLANGE	2	89	075081		SCREW, Self Tapping GRIP	4	
35			SNAP RING	2	90	532008	•••	HANDLE W/Decal	2	
36	032029	Š	FRICTION WHEEL HUB	1.	91	532007		HANDLE W/Decal	1	
37	022013	F	FRICTION DISC	i	92	032026		ROD, Clutch	;	
38	059028	M	CAP SCREW, 1/4-20 x 1/2	4	93	002042		CHAIN & CONNECTOR	i	
39	065040	M	LOCKNUT, 1/4-20	7	94	083008		CLUTCH SPRING	i	
40	032013	M	HEX SHAFT	1	95	011134		KEY SWITCH	1	
41 42	058009 022011	M S	ROLL PIN, 1/8 x 1	2	96	063019		LOCKWASHER	1	
42			PINION PIN, Cotter, 3/32 x 3/4	1	97 98	065075 022161		NUT, Special	1	
44		M	BUSHING FLANGE	1 2	99	063018		WIRE, Shorting LOCKWASHER	Ţ	
45	055110	F	FLANGED BUSHING	2	100	075086		GRIP, Speed Control	1	
46	062049	M	CARRIAGE BOLT 10-24 x 3/8	8	101	069099		CLAMP, 2 Wire	<u> </u>	
47		M	TWIN WHIZLOCK NUT 10-24	8	102	070053	М	RIBBED NECK BOLT, 5/16-18 x 3/4	3	
48	032015	S	AXLE SHAFT	1	103	065078	M	LOCKNUT, 5/16-18	3	
49	032016		GEAR	1				Shows -		
50	058065	M	GROOVE PIN, 3/16 x 1-1/4	<u>†</u>				ENGINE, Tecumseh HSK35-45503M	1	
51 52		S	WHEEL ASSEMBLY, Right	<u> </u>						
53 53		M:	WHEEL ASSEMBLY, Left ROLL PIN, 7/32 x 1-1/4	1						
54	075085	M	HOLE PLUG	2 2			NOT	E: DECALS SEE PAGE 8.		
55	032017	S	BRACKET	1	NOTE: DÉCALQUES (voir p. 8.)					
SUGGESTED PARTS STOCKING CODE CODE SUGGESTED PARTS STOCKING CODE										

SUGGESTED PARTS STOCKING CODE

F - FAST

M - MEDIUM

S - SLOW
O - CUSTOMER ORDER ONLY

CODE SUGGÉRÉ D'INVENTAIRE DES PIÈCES

 $\begin{array}{lll} {\sf F} & - \, {\sf FAST} \mbox{ (rapide)} & {\sf S} & - \, {\sf SLOW} \mbox{ (lent)} \\ {\sf M} & - \, {\sf MEDIUM} \mbox{ (moyen)} & {\sf O} & - \mbox{ Commande du client seulement} \\ \end{array}$

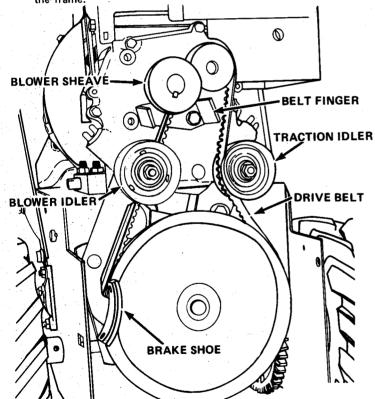
MAINTENANCE

BELT REPLACEMENT

CAUTION:
SINCE REPLACING THE BELTS WILL INVOLVE TURNING
THE ENGINE OVER WITH THE STARTER, THE SPARK
PLUG WIRE MUST BE DISCONNECTED DURING THIS
PROCEDURE.

The drive belt and the attachment drive belt are both accessible by tipping apart the blower housing and tractor as follows:

- Remove the nut and washer holding the worm clevis on the bracket. Remove the chute crank by sliding it back in the bracket and out of the way.
- 2. Remove the two flanged whizlock screws securing the belt guard to the tractor. Remove the belt guard.
- 3. Remove the top cap screws and loosen the lower cap screws on each side that secures the blower housing to the frame. As the blower housing and tractor are tipped apart, roll the belt off the engine sheave between the sheave and belt finger. This can be easily done by pulling the recoil starter rope to rotate the engine sheave. With the belt disconnected, the blower housing may then be tipped from the frame.



REPLACEMENT OF THE BLOWER DRIVE BELT

The blower drive belt remains on the sheave on the blower housing. Place the new belt on the sheave. Hold it in position on the sheave as the blower is tipped into position on the tractor. Be sure the brake shoe seats on the belt as the units are tipped together. Once assembled, roll the blower belt on to the engine sheave and position the idler on the outside of the belt.

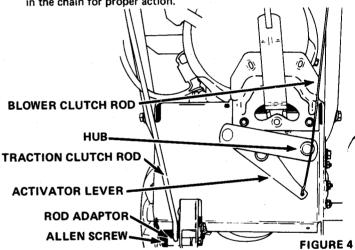
REPLACEMENT OF TRACTION DRIVE BELT

With the blower and tractor tipped apart, spring the idler from the drive belt and remove from around the lower sheave and engine sheave. Install the new belt on the engine sheave and lower sheave. Then spring the idle back into position on the outside of the drive belt.

With the belts in position and the idler in place, check the belt alignment. The engine sheave and the tractor sheave must align with one another. If the sheaves are not properly aligned, loosen the setscrews on the engine sheave and align the sheaves. Retighten the setscrews.

BLOWER CLUTCH ADJUSTMENT

The blower clutch is adjusted by connecting the spring on the clutch rod into the proper link on the clutch handle chain. Properly adjusted, the spring should be slightly extended with the clutch handle down. This should occur without the attachment activator lever touching the hub. If the activator lever touches the hub, the blower belt idler pulley must be adjusted in the idler arm. Loosen the cap screw on the idler and move the idler IN TOWARD the belt. Readjust the spring in the chain for proper action.



DRIVE DISC ADJUSTMENT

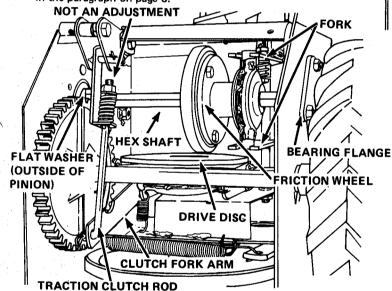
The only adjustment for the drive disc is made by adjusting the length of the traction clutch rod. With the clutch handle in the full upright position and the clutch bracket down against the stop, tighten the allen screw in the rod adapter. To check the adjustment, push the Sno-Thro with the clutch handle up; it should roll freely. While pushing the Sno-Thro, slowly lower the clutch handle. The wheels should start to drag with the clutch handle approximately halfway down to the handlebar grip when properly set. If necessary, adjust the clutch rod in the rod adapter to secure this adjustment.

NOTE: The hex nut on the clutch link just above the spring on the clutch linkage is NOT an adjustment. This nut should be tightened just enough to hold the spring snug and prevent the spring from rattling when traction clutch is released.

REPLACEMENT OF FRICTION WHEEL

- Tip the machine up on the blower housing and brace securely. Remove two cap screws at back of frame securing the bottom cover and loosen two cap screws at front frame sides and remove the cover.
- Remove the four whizlock nuts holding the bearing flange on the right hand side of the frame. Remove the bearing flange and carriage bolts.

- Remove the hairpin cotter from the traction clutch rod. Pull this rod from the clutch fork arm and tip it up and out of the way.
- 4. Slide the friction wheel assembly and hex shaft to the right until the left end of the hex shaft comes free of the left bearing. Then slip the whole assembly back to the right and pull it forward out of the frame.
- With the friction wheel assembly out of the frame, the three cap screws holding the friction wheel to the hub may be removed and the friction wheel removed.
- Position a new friction wheel on the hub and secure with the three cap screws. Tighten securely.
- 7. Slip the right end of the complete friction wheel assembly and hex shaft into the hole in the right side of the frame. Position the friction wheel hub in the forks. Slide the hex shaft to the left and into the left bearing being sure flat washer is in position. See that the pinion gear meshes with the large gear.
- 8. Replace the bearing flange on the right side of the frame and secure with the four carriage bolts and nuts. Reconnect the traction clutch rod in the clutch fork arm and secure with a hairpin cotter. Readjust the drive disc as described in the paragraph on page 6.



LUBRICATION

ENGINE

Fill the crankcase with Ariens Sno-Thro oil 5W-20 when using the Sno-Thro.

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

Refer to engine owners manual for appropriate crankcase oil substitutes.

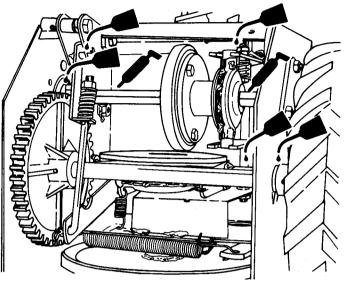
Fill the fuel tank with fresh, clean, unleaded automotive type gasoline. (Leaded "regular" grade gasoline is an acceptable substitute.)

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 the figure below. Use Ariens Moly Lithium grease.

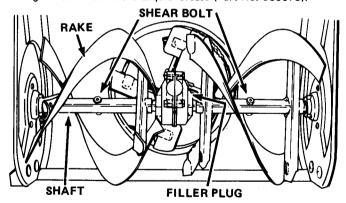
Put two or three drops of light oil on shift lever and other linkage points. CAUTION: Do not allow grease or oil to come in contact with friction wheel, drive disc or belts.



SNO-THRO UNIT

Check the lubrication in the blower gear case by removing the filler plug on the side of the gear case just above the left hand auger shaft. Lubricant should be even with the hole with the machine sitting level.

To Drain Gear Case: Remove fill plug. Tip up on blower housing and allow oil to drain. Tip unit back on wheels. Fill gear case with Ariens Liquid Grease (Part No. 000070).



Oil rake shaft periodically or each time a shear bolt is replaced. At the end of the season, remove shear bolts, oil rake shaft through shear bolt holes, turn rakes on shaft several times and replace shear bolts.

Oil the discharge chute with several drops of heavy oil.

