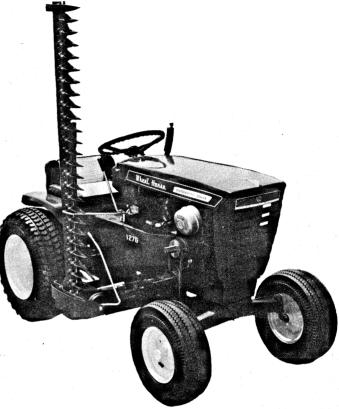


SIDE MOUNTED SICKLE SML-506 (Formerly SMS-506)



ASSEMBLY

- A. Place the tractor on which the mower is to be mounted on a clean smooth floor or other surface making sure that there is adequate clear space for the mounting of mower. Remove the mower parts from the box and arrange in a convenient manner along side the tractor.
- **B.** Place the 59" belt, Part. No. 1588, around the $2\frac{1}{2}$ " pulley in the center of the cross shaft and attach the shaft support assembly to the tractor frame using four $\frac{3}{6}$ x1" hex. head bolts and nuts. These bolts are to be placed in the second and fourth holes from the front end of the tractor frame.
- C. Insert the end of the shaft on which the frame pivots, Part No. 1962 into the hole in the center of the cross bar in the frame assembly, Part No. 1954.
- (NOTE: Make sure the collar, Parf No. 1085 is installed on side of frame as shown in the exploded view before installing shaft.) Attach the bracket on the rear end of the shaft to the tractor frame at the holes near the bottom of the frame bracket which bolts to the transmission. Two $\frac{1}{2}$ x $1\frac{1}{4}$ hex. head bolts and nuts are provided for this purpose.
- **D.** With the lift lever in place on the pin at the rear of the drive unit, insert pin into the hole in the rear arm of the frame assembly, Part No. 1954 and secure with a $\frac{3}{6}$ x 1" cotter pin. Bolt link at front of drive housing to belt guard portion of mower frame using two $\frac{3}{8}$ x 1" hex. head bolts, and nuts.
- **E.** With set screw in collar, Part No. 1085 loose, install the belt around the two idlers and the 4" pulley on the drive unit. Tighten the belt by moving the mower frame rearward on the shaft until proper tension is obtained by adjusting the bolt, Part No. 909576 and locking the bolt with the hex nylok nut, Part No. 915115-6. Slide collar, Part No. 1085 forward on shaft and secure with set screw (See photo 1.)

- F. Secure engine pulley, Part No. 5590 on engine shaft with set screw and square key. The engine pulley and mower pulley, Part No. 1969 are to be in line. Push the clutch pedal forward to the detent position and slide 38" belt over engine pulley and 5" mower pulley. Release foot clutch pedal and check pulley alignment. Tightness of belt is automatic through tension spring. Install stop belt, Part No. 5949 to engine. Allow 16" clearance between the stop and drive belt.
- **G.** Remove the nut and large washer from the carriage in the front end of the lower shoe and install grass rod, Part No. 2685. Replace nut and washer above the rod. The position of this rod can be varied for the most desirable operation.
- **H.** Install the spring, Part No. 1014, between the cotter pin in the lift lever and the one in the rear frame arm.
- 1. Attach the travel hook bracket, Part No. 2700, to the tractor hood stand using two $\frac{5}{16} \times \frac{3}{4}$ " bolts.
- J. Install lift rod, Part No. 6431 thru assembly frame, Part No. 1954 and secure with one hairpin, Part No. 933504-4. Install the top of the lift rod thru top hole of tractor lift arm and secure with hairpin, Part No. 933504-4.

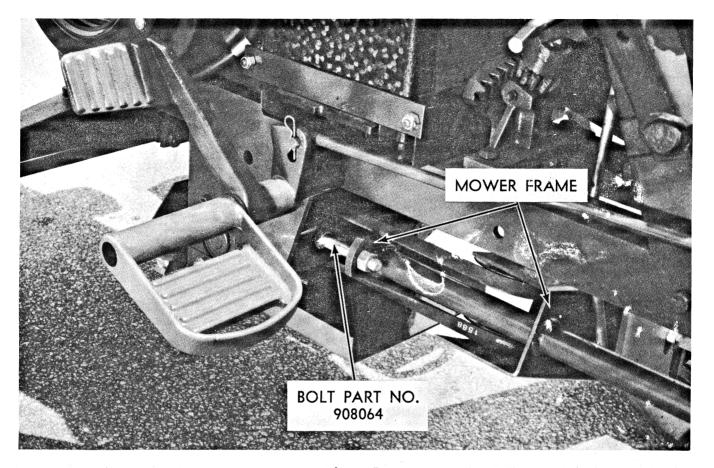


Photo 1

- K. Fill the sickle drive housing with #30 motor oil to the level of the large filler plug in the side of the housing with the cutter bar on a level surface.
- L. Turn the flywheel pulley by hand. If noticeable tightness is apparent inspect the guards and hold down clips. Tightness can often be eliminated by loosening the guard bolts then turning the unit several times by hand and retightening the bolts. When the unit turns relatively easily by hand start the tractor engine and run mower slowly for a few minutes. A light grade of machine oil or motor oil should be used to lubricate any hot spots that develop on the knife until it is properly worn in. Gradually increase speed until it is operating under full throttle.

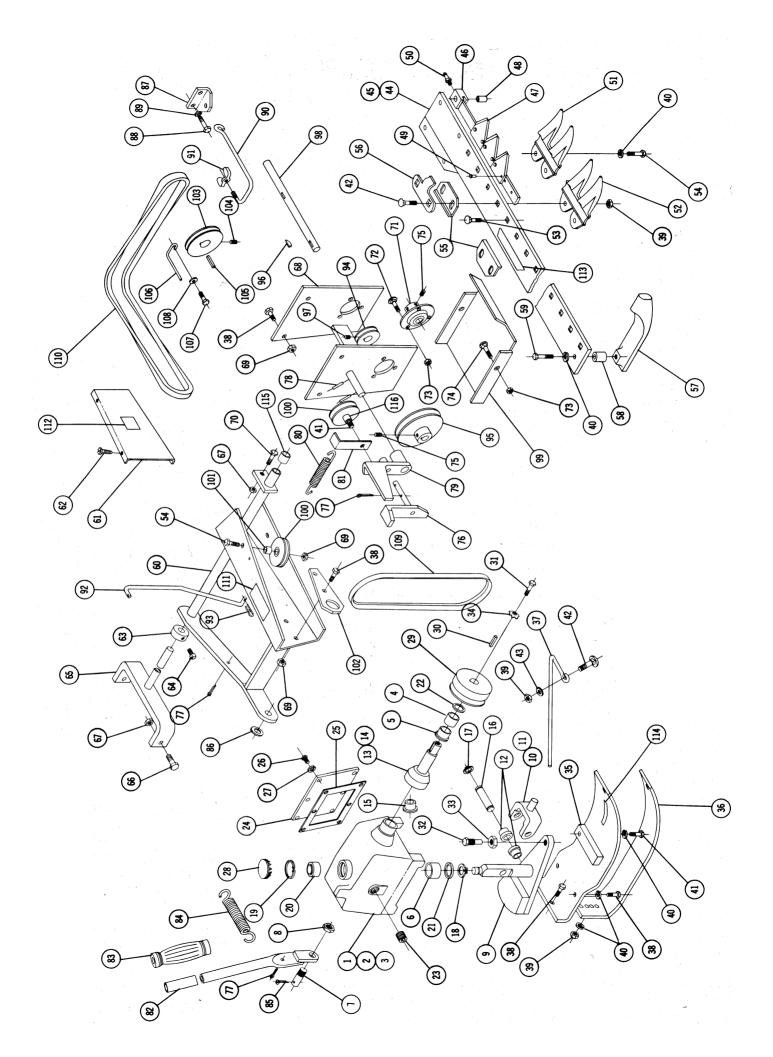
OPERATION

- 1. The height of the cut is controlled by the position of the cutter bar skid, Part No. 2234, at the outer end of the bar and the lower shoe, Part No. 2677. The cutter bar skid is adjusted by the addition or removal of skid spacers, Part No. 2233. Four holes are provided in the rear end of the lower shoe for adjustment.
- 2. The short belt tension is maintained automatically by the tension spring. The long belt is adjusted as explained in the assembly instructions.
- 3. The position of the grass rod may be adjusted to suit the various conditions under which the mower may operate. Correct positioning prevents plugging at the lower shoe.

- 4. The knife assembly may be removed for sharpening or replacement by loosening the jam nut, Part No. 915089-4. NOTE: It is very important that this pin and jam nut be kept tight. Looseness can destroy the threads in the drive arm.
- 5. For transporting, the cutter bar may be raised to a vertical position. Insert the cutter bar hooks into the hole in the cutter bar and secure with the wing nut provided. The placement of this hook between two guards prevents accidental operation of the knife when in transport position.
- 6. Safety First: Caution should be exercised in the operation of this machine. Children and pets should be kept away from the mowing area. Never attempt to remove obstructions from the cutter bar without first shutting off the tractor engine. CAUTION: When operating on slopes or rough terrain, LEFT WHEEL should be equipped with wheel-weight #WW-126 to counter balance the weight of the mower and to provide greater stability.

LUBRICATION

The sickle drive housing should be kept filled to the level of the large filler plug with #30 motor oil. This oil level should be checked periodically. The knife head should be lubricated with a good grade of gun grease after every four hours of operation. All other high speed bearings are sealed and need no further attention. Machine oil or motor oil may be used at hinge points to insure freedom of operation and prevent rust.



PARTS LIST

When ordering parts always list Part No. and Name of Part.

Ref.	Part		No.	Ref.	Part		N
No.	No.	Description	Req'd.	No.	No.	Description	Req
1	5041	Ass'y. Housing Complete —		58	2233	Spacer — Skid	2
	, 	Sickle Drive	1	59	908038-4	Bolt Hex 3/8-16 x 2	1
2	2701	Ass'y. Housing & Bearings	1	60	1954	Ass'y, Frame	
3	2644	Housing	1	61	5598	Cover Belt	
4	2694	Bearing — Bronze Sleeve	1	62	926452-4	Screw — Hex Self Tap #8-32 x 3/8	
5	2692	Bearing — Bronze Sleeve	1	63	1085	Collar	
6	2695	Bearing — Bronze Sleeve	1	64	909531	Set Screw 1/4-20 x 3/8 Square Head	
7	2655	Pin	1				
8	915090-4	Nut ³ / ₄ -16 Jam		65	1962	Ass'y, Bracket & Rod	1.
9	2683	Ass'y, Shaft — Weldment	1 ;	66	908058-4	Bolt Hex ½-13 x 1¼	
10	2687	Ass'y. Yoke		67	915115-6	Nut — Nylok ½-13	
		l to the second of the second	1	68	6569	Ass'y. Shaft Support	
1	2690	Yoke	1	69	915663-4	Nut 3/8-16 Elastic Stop	
2	2686	Bearing — Bronze Sleeve	2	70	909576	Bolt ½-13 x 3 Square Hd.	
3	2702	Ass'y. Shaft — Wobble Drive	1	71	5269	Ass'y. Bearing — Ball — Flanged	
14	2679	Shaft — Wobble Drive	1	72	900037-4	Bolt Carriage $\frac{1}{6}$ -18 x $\frac{3}{4}$.
15	2693	Bearing — Bronze Sleeve	1	73	915112-6	Nut - Nylok 5/6-18	
6	2691	Pin Yoke	1	74	900038-4	Bolt — Carriage 5/6-18 x 1	
7	936121	Snap Ring — Truarc .625 Shaft	2	75	909862-6	Set screw \(\frac{1}{6} - 18 \times \frac{1}{6} \text{ Hex} \)	
8	936122	Snap Ring — Truarc .669 Shaft	1	76	3380	Ass'y. Lever — Attachment	
9	936028	Snap Ring — Truarc 1.562 Bore	1	77	932017-4	Cotter Pin 1/8 x 1	
0	5596	Bearing — Ball .687 Shaft —		78	933188	Roll Pin 3/6 x 1	
		Double Seal	1	79	3381	Pedal Attachment Clutch	
1	1482	Seal 1¼" Shaft	1	80	6651	Spring	
2	1232	Seal 1" Shaft	1	81	6360		1
3	943439	Plug — Pipe Square Head	1	82		Clip — Belt	
4	2657	Cover Plate	1)	2678	Ass'y. Lever Lift	
5	2656	Gasket	1	83	1000	Grip	
6	909017-4	Screw Round Head #10-24 x 3/8	6	84	1014	Spring	1.
7	920079-4	Lockwasher #10	6	85	932034-4	Cotter Pin 3/6 x 1	1
8	935135-4	Plug — Button	1	86	920015-4	Washer 3/4 S.A.E.	
9	2659	Pulley 4" Dia.	;	87	2700	Bracket — Travel Hook	1
ó	1005			88	908017-4	Bolt Hex 1/6-18 x 3/4	
1		Key Square $\frac{3}{16} \times \frac{3}{16} \times \frac{1}{16}$	1	89	920082-4	Lockwasher 3/6 Dia.	:
1	908033-\$	Bolt — Nylok 3/8-16 x 3/8	1	90	2666	Hook — Travel Support	
2	2680	Pin — Sickle Drive	1	91	915586-4	Nut Wing 3/8-16	
3	915089-4	Nut — Hex $\frac{5}{8}$ -18 Jam	1	92	6431	Rod — Lift	
4	1336	Washer — Dome	1	93	933504-4	Hairpin Cotter	
5	2643	Ass'y. Shoe — Upper — Weldment	1	94	1608	Pulley 2½ Dia.	
6	2677	Shoe — Lower	1	95	1969	Pulley	
7	2685	Rod — Grass	1	96	937014	Key #9 Woodruff	1
В	908034-4	Bolt — Hex 3/8-16 x 1	5	97	909848-6	Set Screw 1/2-20 x 1/4 Hex	
9	915113-4	Nut Hex 3/8-16	26	98			'
0	920083-4	Lockwasher 3/8 Dia.	7	99	6572	Shaft	
1	908036-4	Bolt Hex 3/8-16 x 11/2	2		2660	Shield Pulley	١
2	900064-4	Bolt — Carriage 3/8-16 x 11/4	11	100	1623	Ass'y. Idler Pulley	
	920039-4	Washer 3/8 Dia. U.S.	1	101	1967	Spacer	
	5043	Ass'y. Cutter Bar Complete		102	1966	Link	
5	2704	Ass'y. Bar Guard	1	103	5590	Pulley — Engine — Drive	
5			1	104	909849-6	Set Screw 1/4-20 x 1/6 Hex	
	2697	Ass'y, Knife Bar & Sections	1	105	1349	Key Square	
	2236	Section	25	106	5949	Stop Belt	
3	1498	Bushing	1	107	908016-4	Bolt Hex 1/6-18 x 5/8	
'	1071	Rivet	50	108	920008-4	Washer 1/6 S.A.E.	1
)	1291	Fitting — Grease 90°	1	109	6573	Belt 38" Engine Drive	
	2230	Guard — Cutter Bar	10	110	1588	Belt 59" Mower Drive	
!	2684	Guard — Cutter Bar	1	111	4498	Decal General Caution	1
3	900063-4	Bolt Carriage 3/8-16 x 1	15				
	908035-4	Bolt Hex 3/8-16 x 11/4	3	112	4410	Decal Square Emblem	1
,		1	1	113	5604	Decal — Attachment Emblem	
5	2231	Plate — Cutter Bar	4	114	3710	Decal — Grease	'
1	2232	Clip — Cutter Bar	4	115	1957	Bushing	
'	2234	Skid — Cutter Bar	1 1	116	2233	Spacer	'