ASSEMBLY, OPERATING INSTRUCTIONS
AND PARTS LIST FOR

SEARS ROTARY MOWER

SEARS SUBURBAN RIDING TRACTOR MODEL NUMBER 917.251030

> SEARS ROEBUCK AND CO.



SEARS, ROEBUCK AND CO.-U.S.A.

SIMPSONS-SEARS LIMITED - CANADA

7339H

PRINTED IN U. S. A.

SAFETY PRECAUTIONS

ASSEMBLY, OPERAT

- 1. Never start the engine when anyone is near.
- Keep people, pets and particularly children away from mowing area when mowing with your rotary mower.
- 3. Do not attempt to get off or get on tractor when mower is engaged and tractor engine running. Wait until mower blades stop turning before getting off or on tractor. Be sure brake is on securely before getting off tractor especially on an incline or a hill.
- 4. Only persons acquainted with the rules of safe operation should be permitted to use
- 5. No minor should operate this machine unless properly supervised.
- Do not attempt to clean blade housing, or otherwise clean, adjust or repair machine before stopping tractor engine, and removing wire from spark plug.
- 7. Keep blades sharp.
- Never leave machine running unattended and remove key from ignition switch to prevent children from starting tractor or mower.
- Always keep shields or guard in place, on front of mower and discharge chute. Mower must never be operated with shield removed.
- 10. Wear relatively tight fitting clothing and always keep hands, feet or loose fitting clothing away from spinning blades and belts. Do not mow crossways on steep slopes because of danger of tractor tipping over.
- 11. Always drive slowly over uneven ground, on hills and curves to prevent tipping of tractor. Do not stop or start suddenly when going downhill or up hill. When starting up hill, reduce speed, engage clutch slowly.
- 12. Remove stones, wires, cans, boards, branches, bones and other foreign objects from area before each mowing and avoid striking rocks or roots. Any of the above, if struck by the mower blade, may be thrown, causing injury to operator, to property or to the mower itself.
- 13. Always when refueling engine refuel from the left hand side of tractor away from the battery. A spark from the fuel can touching the battery could cause a fire.
- 14. Never fill the fuel tank while the engine is hot, and wipe off any gasoline that might have been spilled. Replace fuel cap on tank.
- 15. When replacing blades, engage blade over roll pins in mandrel shaft and always replace spring washer slotted nut, and cotter pin. Check slotted nut at frequent intervals to make sure it is tight and cotter pin is in place.
- 16. Never run engine inside a building without opening all doors and windows.

KEARS, ROEBUCK AND CO.-U.S.A.

SAMPSONS SEASE LIMITED - CARADA

INTRODUCTION

STEER OF PERMISSION OF THE STEER

Although this Mower is simple to operate and care for, it is very important that instructions as outlined in this manual be studied and followed very closely before beginning to assemble.

Each Mower is given a thorough inspection before shipment; however, it is important that it be again checked at the time of receipt to ascertain if any damage has occured in transit.

The Mower shipment consists of:

Stock No. 32-25103 or 32-25104

OPTIONAL EQUIPMENT

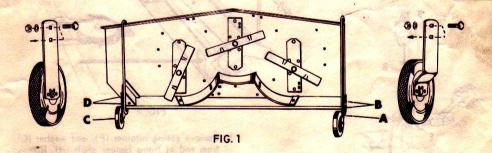
Stock No. 32-25106 Leaf Mulcher

SEARS, ROEBUCK AND CO. and SIMPSONS-SEARS LIMITED reserves the right to make any changes in design or improvements without imposing any obligation to install the same upon its implements heretofore manufactured.

Setting Up, Operating Instructions and Safety Precautions should be studied very closely before beginning to assemble your Mower. A number at the beginning of a paragraph refers to an arrow in the adjoining figure except when otherwise stated. When R.H. (Right Hand) and L.H. (Left Hand) are used, it should be understood to mean from a position behind and facing the mower (or direction of travel).

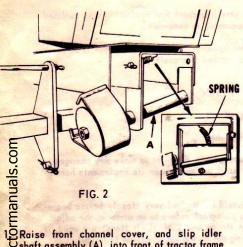
Remove Mower from carton and cut all wires. NOTE: The two extra thick flat washers found in bag of parts must be saved for use in step 11, page 6.

ASSEMBLY OF GAUGE WHEELS

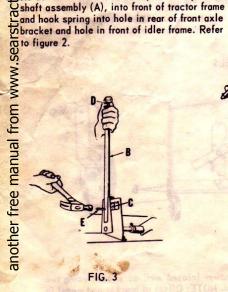


- Assemble L.H. gauge wheel assembly (A), to L.H. end of mower (closed end) as shown, using two 3 8 x 1 carriage bolts (B), lockwasher, and hex nuts furnished. NOTE: Offset of bracket and wheel in towards center of mower and head of bolts to outside. Refer to Fig. 1.
- 2. Assemble R.H. gauge wheel assembly (C) to R.H. side of mower (discharge side) in the same manner, with the other 3 8 x 1 carriage bolts (D), lockwashers, and hex nuts furnished. NOTE: Wheel to outside of bracket as shown, and head of bolts to inside. Lift up on gauge wheels when tightening bolts. Wheels are assembled to second hole from top of bracket, which is recommended for a cutting height of 2³4 inches. The gauge wheels should clear ground by approximately 3⁴4 inch when tractor is on level ground and lift lever has been set to height of cut desired. Gauge wheels suspended as above keepwheels from tearing turf on sharp turns by wheels sliding sideways.

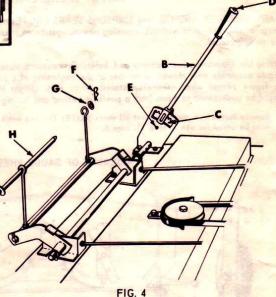
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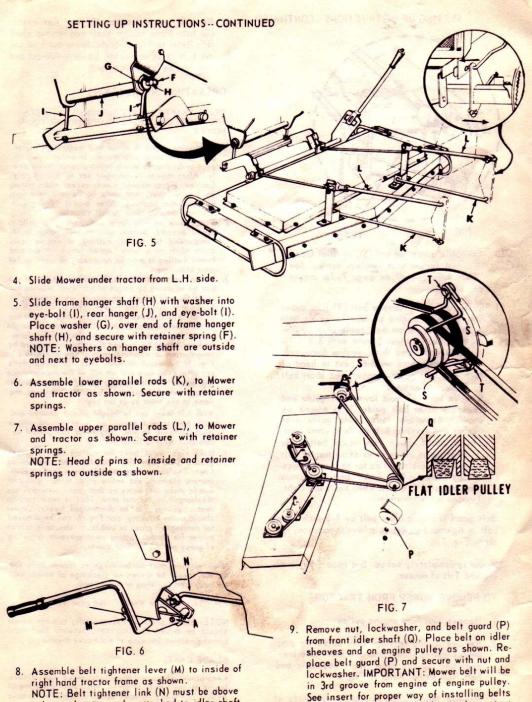
Shaft assembly (A), into front of tractor frame and hook spring into hole in rear of front axle



2. Move lift lever (B) up and back so that center of lever is centered with opening of lever quadrant (C). Depress button (D) on top of lever and drive roll pin (E) through opening of lever guadrant and into other side of lever. Roll pin will then engage notches in lever quadrant, holding the lever in one of the 7 notches in quadrant. Refer to Fig. 3.



3. Remove spring retainer (F), and washer (G), from end of frame hanger shaft (H). Remove shaft. Leave one washer on shaft next to roll pin. Refer to Fig. 4.

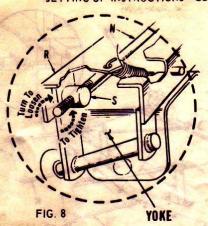


yoke so that it can be attached to idler shaft assembly as shown in Fig. 8. One bolt must be removed from tractor to attach lever.

-5-

on idler pulleys. Back of belt must be against

the flat idler as shown. Refer to Fig. 7.



- Assemble adjusting pin (S), to idler frame (R), and secure with retainer spring. See "Belt Adjustment" on page 7, for proper adjustment.
- 11. Refer to Fig. 7. Remove bolt (T) from upper belt guide at engine pulley. Assemble belt guide (S) over short belt guide with washer between belt guides. Secure with 3/8 x 1½ hex bolt and extra thick washer furnished. NOTE: extra thick washer next to head of bolt, new belt guide, washer, and short belt guide next to engine.

guide next to engine.
Remove bolt (T) from lower belt guide and assemble other belt guide (S) to engine as shown. Assemble lower belt guide over washer and existing belt guide in same manner as stated above. New lower belt guide (S) must be as close to existing tractor belt guide as possible and as far to rear as possible as shown in Fig. 7. All belt guides must clear belts by 1/8 inch when belts are tight. Tighten bolts securely.

Belt guard (P) must clear belt by 1/8 inch when belt is tight and mower is in lowest position. Refer to Fig. 7.

Mower is completely set up. See page 7 for leveling and Tilt of mower.

TO REMOVE MOWER FROM TRACTOR

- 1. Remove belt from engine pulley.
- Remove spring retainer from adjusting pin, unlock spring from frame and front axle bracket and remove idler shaft assembly and belt from frame. Refer to Fig. 8.
- Remove four spring retainers from ends of upper and lower parallel links (L & K) and remove links. Refer to Fig. 5.

4. Remove spring retainer (F) and flat washer (G) from frame hanger shaft and remove shaft (H). Refer to Fig. 3. Slide mower out from under L.H. side of tractor. Lever weldment and link can be left on tractor.

OPERATING INSTRUCTIONS

READ "SAFETY PRECAUTIONS" ON PAGE TWO CAREFULLY BEFORE OPERATING YOUR MOWER.

Set engine speed to about half throttle before engaging or disengaging mower. In either case, engage or disengage mower belt tightener lever slowly. After mower is engaged set to full throttle. Caution: Never engage mower except when sitting on tractor seat, and keep hands and feet from beneath the housing. After mower is engaged, advance throttle lever to full throttle.

 Push down on foot lever and move gear shift to speed desired. Second gear in high range is recommended for normal cutting. If engine pulls down shift to a lower speed range. In extreme heavy cutting it may be necessary to shift to 1st

gear high range.

3. Normal cutting height is 2% inches, height of cut can be adjusted by means of lift lever. Moving the lever forward lowers the mower, while moving it backwards raises the mower. The lever latch is actuated by depressing the latch button at the top of the leverhandle. Each notch changes the height of cut approximately ½ inch. Should some intermediate height be desired this can be obtained by lengthening or shorting each of the eyebolts (1, Fig. 5) an equal amount. This adjustment does not affect the fore and aft tilt of the mower, since the mower is attached by means of the parallel linkage which causes it to raise and lower the same at the front as at the rear.

With lift lever set to height of cut desired and with tractor and mower on level ground adjust gauge wheels so that they clear the ground by

approximately ¾ inch.

4. Make right hand turns for cutting normal height grass. This way the clippings are chopped upfiner. The last cut can be raked or swept up eliminating cleaning the entire yard. In tall grass or weeds make left turns so that grass or weeds are discharged on the cut area. This is necessary so that clippings can be discharged freely. Center shield under housing, see Fig. 9, can be removed for cutting tall grass or weeds. It should remain on mower for normal cutting as it prevents dribbling of grass out the back of mower.

When mowing next to buildings or flower beds the tractor should be driven so discharge of mower will be away from building or flower bed.

For "Tall Grass or Weeds", see page 7.

NOTE: Should grass be exceptionally tall the mower should be driven in a counter-clockwise (left hand turns) direction because of the heavy discharge.

BLADE CARE:

Keep blades sharp and properly balanced. Dull blades bruise or split ends of grass, and cause browning of freshly cut grass. Blades out of balance will cause excessive vibration.

LUBRICATION

Starting each day, lubricate center and outer mandrels with heavy lithium or pressure gun grease. Apply a few drops of motor oil to all pivot points, parallel links, lift links, clutch lever shaft, lift lever shaft, and lever latch.

ADJUSTMENTS

Level from R.H. to L.H. side.

Drive tractor, with mower mounted onto a level smooth surface. Have tires properly inflated.

2. Measure distances from top of both R.H. rear corner and L.H. rear corner of mower housing to level floor. Both of these measurements must be the same for mover to be level. Adjust nuts on either eyebolt (I) to make mover level, (shorten eyebolt on low side or lengthen eyebolt on high side). After mower is level tighten nuts securely.

TILT FROM FRONT TO BACK

Mower must tilt slightly downward in front, this pre-vents "double cutting" which requires additional power and impairs the functional performance of the

With tractor on level surface and tires properly inflated, place a straight edge on top of and on each side of mower housing between belt guard and end of housing as shown. Lengthen or shorten upper parallel rods (L) so that distance from under side of straight edge is ½" less in front of mower housing than it is in rear. If front of mower is higher than rear, shorten upper parallel rods (L). Le nighten upper parallel rods (L) to raise front end of mower. Refer to Fig. 8A. One turn of clevis on upper parallel rod will affect the height of front of mower approximately 5/32 inch. Be sure to check and adjust both sides of mower.

Make sure all nuts and bolts are tight and cotters spread. Keep blades balanced and sharp. Observe all safety precautions. Keep mower lubricated and clean.

BELT ADJUSTMENT

Belt from engine to center mandrel.

Turning adjusting pin adjusts belt. Remove spring retainer from adjusting pin and turn adjusting pin counter clockwise (when standing in front of tractor and facing to rear) to tighten belt. Vice versa to loosen belt. Replace retainer spring after proper adjustment has been made. Belts from center mandrel to outside mandrels are spring loaded and no adjustment is necessary.

When belt tightener lever requires a fair amount of effort to engage lever, belt is properly adjusted. Belts that slip wear out rapidly. Keep belt adjusted fairly tight to prevent premature failure. Refer to Fig. 8.

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REPLACEMENT OF BELTS

Engine to mower belt.

 Remove nut holding belt guard to belt cover, remove belt guide weldment front from idler shaft, and remove belt. Install new belt and replace guards. Adjust guard for 1/8 inch clearance of belt when belt is tight, and mower is in lowest cutting position.

Outside Mandrel Belts.

Remove mower from tractor
Use steps outlined above, remove brace rods and bolts holding belt cover to mower housing and remove belt cover. Roll belts from sheaves and install new belts. (On left hand mandrel it is necessary to unhook spring to remove belt.) Replace cover on housing. Tighten all bolts securely:

DAILY MAINTENANCE

Make sure all nuts on bolts are tight and cotters spread. Keep blades sharp. Observe all safety precautions. Keep mower well lubricated.

TALL GRASS OR WEEDS

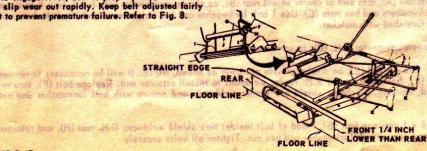
When mowing in tall grass or weeds, remove shield from under rear center of mower. See Fig. 9. This allows material to move out from under mower quicker and requires less power. However, when mowing normal grass, replace shield under mower. This shield helps prevent grass clippings from dribbling out the back of mower. A slower ground travel must be used when cutting heavy grass or weeds. Select gear which seems to do the best job.

CLEANING MOWER

Water pressure from a garden hose can be used in cleaning underside of housing, if cleaned immediately after use before clippings under mower have a chance to dry out.

For cleaning underside of mower that has dry packed clippings, place tractor in gear or engage parkingbrake. Jack up front of tractor and clean underside of mower with putty knife or similar tool. Important: Jack must be secure or blocks used under front wheels so that tractor will not fall when cleaning under mower.

This should be done whenever an accumulation of grass builds up under mower. Mower will do a much better job of mowing if underside of mower is kept clean.



13.2.67

FIG. 8A

SETTING UP INSTRUCTIONS -- CONTINUED

CLEANING MOWER

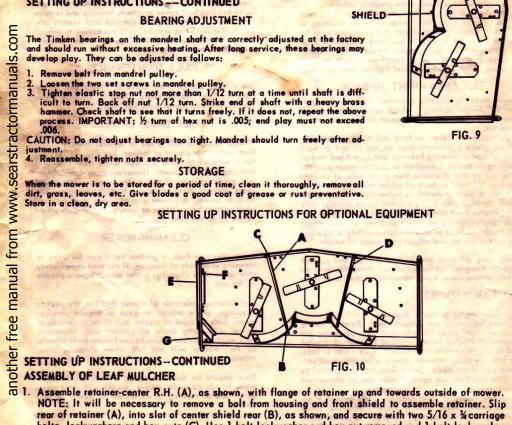
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For cleaning underside of mower that has dry packed clippings, place tractor in gear or engage parking brake. Jack up front of tractor and clean underside of mower with putty knife or similar tool. IMPORTANT: Jack must be secure or blocks used under front wheels so that tractor will not fall when cleaning under mower.

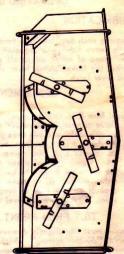
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SETTING UP INSTRUCTIONS -- CONTINUED

BEARING ADJUSTMENT



- NOTE: It will be necessary to remove a bolt from housing and front shield to assemble retainer. Slip rear of retainer (A), into slot of center shield rear (B), as shown, and secure with two 5/16 x 1/4 carriage bolts, lockwashers and hex nuts (C). Use 1 bolt lockwasher and hex nut removed and 1 bolt lockwasher and nuts furnished with mulcher.
- 2. Assemble retainer-center L.H. (D), in same manner.
- 3. Assemble retainer end (E), on discharge side of mower as shown. NOTE: It will be necessary to remove rear bolt (F), from front end of R.H. runner weldment to install retainer end. Replace bolt (F), thru retainer end, housing, discharge shield and runner weldment, and secure with bolt lockwasher and nut removed.
- 4. Insert 3/8 x 1 carriage bolt (G), (head of bolt inside) thru shield weldment R.H. rear (H), and retainer end (E), and secure with lockwasher and hex nut. Tighten all bolts securely.



SHIELD

13.2.67

HOW TO ORDER REPAIR PARTS

SEARS SUBURBAN RIDING TRACTOR 48" ROTARY MOWER

MODEL NUMBER 917.251030

The above number is the Model Number of your SEARS SUBURBAN RIDING TRACTOR 48" ROTARY MOW-ER. It will be found on a plate attached to the top of the Mower housing. Always mention the Model Number of your mower when communicating with us or when ordering repair parts.

All parts listed herein may be ordered through SEARS, ROEBUCK AND CO. or SIMPSONS-SEARS LIMITED. When ordering parts by mail from the mail order house which serves the territory in which you live, selling prices will be furnished on request or parts will be shipped at prevailing prices and you will be billed accordingly.

WHEN ORDERING REPAIR PARTS, ALWAYS GIVE THE FOLLOWING INFORMATION AS SHOWN IN THIS LIST:

1. The PART NUMBER.

3. The MODEL NUMBER 917.251030

2. The PART NAME.

4. The NAME of Implement - RIDING TRACTOR ROTARY MOWER.

Each part has been given a Key Number or Letter which is used only as a guide to find the part number. Do not use the Key Number or Letter when ordering repair parts.



13.2.67

another free manual from www.searstractormanuals.com

- 10 -

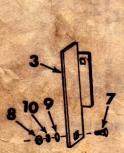
PARTS LIST

		The state of the s			
KEY	PART NO.	DESCRIPTION	KEY	PART NO.	DESCRIPTION
1	7335H	V Belt (Center to Outside	28A	7323H	Gauge Wheel Bracket L.H.
		Mandrels)	29	634A125	Runner Weldment
2	4829H	Plug Button	30	7282H	Housing End L.H.
3	1685H	Gripco Nut 5/16 - 18 UNC	31	7277H	Shield L.H. Rear
4	446363	Washer 3/8 x 7/8 x 14 Ga.	32	733 1H	Housing
		pltd.	33	7330H	Front Shield 48"
5	634A136	Belt Guide and Bracket 48"	34	7332H	Housing Strap
6	634A 138	Belt Cover and Weld Bolt 48"	35	120394	Washer 13/32 x 13/16 x 16 Ga.
7	4831H	Elastic Stop Nut ¾ - 16	The same of the sa		pltd.
8	7333H	Mandrel Sheave Center	36	634A 124	Shield Weldment - R.H. Rear
10	634A117	Mandrel Tube and Cups	37	7281H	Discharge Shield
10A	4376H	Washer	38	4820H2	Mandrel Reinforcement
11	6842M	Grease Fitting 1/4 - 28 45° male	39	9250M2	Hub Cap
12	6855M	Grease Fitting 1/4 - 28 straight	40	7322H	Blade Order Stock No. 32-25107
一条		male	41	7294H	Groove Pin ¼ x 5/8 Type 4
13	17890610	Hex Socket Headless Set Screw	42	9914M	Spring Washer
		C.P. Nylock 3/8 - 16 x 5/8	43	125267	Hex Slotted Nut 5/8 - 18
14	17890510	Hex Socket Headless Set Screw	44	120 123	Cotter Pin 1/8 x 1¼
	型二十一定的	C.P. Nylock 5/16-18 x 5/8	45	634A 137	Shield Complete - Center 48*
14A	7324A	Gauge Wheel Bracket R.H.	46	120392	Washer 9/32 x 5/8 x 16 Ga. pltd.
15	7293H	Mandrel Sheave - Outer	47	131098	Washer, Lock ¼ pltd.
16	1554H	Timken Cone LM 11949	48	120375	Hex Nut ¼ - 20 pltd.
16A	7375H	Bushing	49	120638	Washer, Lock 5/16
17	1553H	Timken Cup LM 11910	50	120376	Hex Nut 5/16 - 18 pltd.
17A	7334H	Wheel 8 - 1.75	51	131099	Lock Washer 3/8"
18	634A175	Shaft and Flange - Outer	52	120377	Hex Nut 3/8 - 16 pltd.
19	6820M	Woodruff Key ¼ x 1	53	120369	Hex Nut 3/8 - 24 pltd.
20	4827H	Grooved Idler	A	126203	Carriage Bolt Short Shoulder 1/4-
21	606A235	Belt Tightener Bracket and	THE STATE OF		20 x 5/8 pltd.
	40/011	Bushing R.H.	В	120518	Carriage Bolt ¼-20 x ¾ pltd.
22 23	4969H	Bushing	C	126216 126358	Carriage Bolt 5/16-18 x ¾ pltd.
23	4301H	Spring	E	126380	Carriage Bolt 5/16 - 18 x 1 pltd.
24	634A135	Mandrel Assembly With Sheave		120380	Carriage Bolt Short Shoulder
	*******	- Center 48"	*	100015	5/16 - 18 x 2 pltd.
25 26	634A174	Shaft and Flange Center	F	120915	Carriage Bolt 3/8 - 16 x 1 pltd.
20	606A236	Belt Tightener Bracket and	The state of the s	122150 126227	Hex Bolt 3/8 - 16 x 1-3/8 pltd.
07	(244 110	Bushing L.H.	H		Carriage Bolt 3/8 - 16 x ¾ pltd.
27	634A119	Mandrel Assembly With Sheave		181652	Hex Bolt 3/8 - 24 x 3 HT pltd.
		Outer, Right and Left Hand	K	126315	Carriage Bolt ¼-20 x 1 C.P.
27A	· **	Model Plate	-	7339H	Instruction and Parts List for
28	7305H	Runner Spacer			Madel Number 017 251030

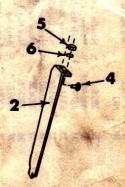
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PART DESCRIPTION	2895H Handle Grip 606A249 Hanger, Complete R.H.	4-4-	12040 Hex Bolt 5/16 - 18 x 19/17/12040 Hex Bolt 5/16 - 18 x 19/1704 Hex Bolt 5/1704 Hex Bolt 5/170		6508H Lever Stop Strap 4939M Retainer Spring			T	131100 Lock Washer / 16 606A356A Belt Guide Weldment- Front	697H Bearing		120571 Truss Head Slotted Machine		8	12145 Hex Bolt 3/8 - 16 x 1¼ 19 14 16 10 Washer 7/16 x 1 x 10 Ga.	4775H Belt Guide
₩.	888	888	888	88	88	\$ 5	4	\$:	4 A :	8 6	88	S S	25	28	2 73	8
DESCRIPTION	Retainer Spring Washer 17/32 x 1-1/16 x 10	Eye Bolt Frome Honder Chaff	Roll Pin 3/16 x 1 Hex Nut 3/8 - 24	Hanger Bolt Shaft Cotter Pin 1/8 x 1	Lift Arm & Bushing R.H. Lift Shaft Bracket Weldment R.H.	Hex Nut Nylock Self Locking	Cotter Pin 3/16 x 1/4 Lever & Shaft W/Plunger	Hex Nut 3/8 - 16	Masher Lock 3/8 Carriage Bolt 3/8 - 16 x 1	20 x 1/2	Housing Brace	Hanger, Complete L.H.	Clevis	Parallel Arm, Upper	Parallel Arm, Lower Roll Pin 3/16 x 11/5	Spring Lever Plunger and Button
PART NO.	4940M 19171710	5976H1	1572H	137 185	634A129 634A127	9412349	187988 634A 158	120377	120915	119304	136402	606A250	1123H	4784H	4/83H 9465M	2876H 606A248
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FIG. 10

LEAF MULCHER

KEY NO.	PART NO.	DESCRIPTION	KEY NO.	PART NO.	DESCRIPTION		
1	4979H2	Retainer-Center R.H.	7	120915	Carriage Bolt 3/8 - 10		
2	4980H2	Retainer-Center L.H.		337	x 1 pltd.		
3	7377H	Retainer End	8	120377	Hex Nut 3/8 - 16 pltd		
4	126216	Carriage Bolt 5/16 - 18 x ¾ pltd.	9	120394	Washer 13/32 x 13/1 x 16 Ga. pltd.		
5	120376	Hex Nut 5/16 - 18 pltd.	10	131099	Lock Washer 3/8		
6 -	120638	Lock Washer 5/16 pltd.			pltd.		