

Sears, Roebuck and Co., Chicago, Ill. 60684 U.S.A. and Simpsons Sears Limited, Toronto GUARANTEE During the first 90 days, we will repair your Roto-Spader Attachment, free of charge, if defective in material or workmanship. In addition, during the first year, we will replace any broken tines, free of charge. This guarantee service is available by simply contacting any of our stores or service centers throughout the United States or Canada. If the Roto-Spader Attachmant is used for commercial or rental purposes, this guarantee is limited to 30 days. SEARS, ROEBUCK AND CO., CHICAGO, ILL. 60684 U.S.A.

and SIMPSONS-SEARS LIMITED, TORONTO

SAFETY PAYS OFF

read rules for safe operation

- 1. Know the controls, and how to stop quickly. Read the Owner's Manual thoroughly.
- Do not allow children to operate your tractor and Roto-Spader attachment. Do not allow adults to operate them without proper instruction.
- 3. Keep children and pets a safe distance away.
- 4. Clear work area of objects which might be caught in tines.
- 5. Before starting the engine, be sure clutch is disengaged, and tines are clear.
- Make sure of your footing and stand clear of tines when starting engine.
- Do not run engine indoors, because the engine-exhaust fumes contain carbon monoxide, which is a tasteless, odorless, deadly poison.
- 8. Check fuel supply before each use. Never remove the gas cap or fill the gasoline tank when engine is running or while it is hot. When filling the fuel tank, leave space for expansion; do not fill it to the brim and keep in mind that the heat of the sun can cause the gasoline to expand. Wipe off any spilled gasoline before starting the engine. Remember, gasoline is highly flammable and must always be handled with extreme care.
- Stop tractor, disengage Roto-Spader attachment clutch and stop Spader and tractor engines. Shift tractor to neutral position, set parking brake, and remove ignition key before leaving operator's position.
- 10. Never stand near tines or work on tines when engine is running.
- 11. Watch for traffic when crossing or near roadways.
- 12. Always disengage Roto-Spader clutch, and stop engine when travelling to and from field or when not tilling.

- 13. Lift Spader attachment out of the ground when turning corners.
- 14. Do not put tractor in reverse gear while Spader is in the ground.
- 15. Keep all nuts, bolts and screws tight in order to be sure that the tractor and attachment are in safe working condition. Be sure the brake and all powered attachment controls are always in proper adjustment and repair. Check the attachment and engine mounting bolts at frequent intervals for proper tightness. Before performing any maintenance, always disengage the power to attachment, set the parking brake, shift into neutral, shut off the engine, make absolutely sure the Spader attachment and all moving parts have completely stopped, remove ignition key, disconnect the spark-plug wire from the spark plug and keep it away from the plug to prevent injury or accidental starting. The only exception to this rule is carburetor adjustment.
- 16. Keep the engine free from accumulations of grass, leaves or excessive grease, as these accumulations are combustible and could result in a fire. Always keep your Roto-Spader attachment in good operating condition and make sure that all shields, guard plates and all other protective devices are in place. Give your Spader attachment the regular maintenance it needs and have a competent service technician make a thorough inspection of it at least once a year.
- 17. Do not store your Roto-Spader attachment for prolonged periods (more than 30 days) with gasoline in the tank. Do not store your Spader attachment or a gasoline container inside a building where fumes may reach an open flame or spark; they should be stored in a cool, dry place. Be sure to let the engine cool before storing in any enclosure. Always use an approved gasoline container for storing gasoline and keep your Spader attachment and gasoline container in locked storage to prevent children from playing and tampering with them.

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INTRODUCTION

This Roto-Spader has been designed, engineered and manufactured to give you the best possible dependability and performance.

Should you experience any problem you cannot easily remedy, please contact your nearest Sears, Roebuck and Co. or Simpsons-Sears, Ltd. store. They have well-qualified, competent, trained technicians and the proper tools to service or repair your Spader. It is important that the operator ALWAYS OBSERVE THE "RULES FOR SAFE OPERATION" as well as other instructions contained in this Manual. We have provided this Manual to help operate your Spader with utmost efficiency. We urge you to study this Manual so you will understand your new Spader thoroughly before operating it. We suggest that you take care of your Manual so that it will be available for future reference.

DO THIS FIRST

- 1. Cut all four corners of shipping carton down from top to bottom.
- 2. Cut all wires which fasten Spader to wood pallet on bottom of carton.
- 3. Remove Spader, bag of hardware and all parts from carton.
- IMPORTANT: Check oil level in transmission and fill to level of oil filler plug, if necessary. Use S.A.E. 30 motor oil MS, SC, SD or SE. To fill the transmission, use a smallflexible neck funnel. Refer to Figure 7 for location of filler plug.

 Fill engine crankcase to overflowing with S.A.E. 30 oil, API rating MS, SC, SD or SE. Because of recent changes in the classifications, the oil container may show one or a combination of these recommended classifications. Capacity: About 2% pints. Refer to Figure 7 for location of engine fill plug.

READ YOUR OWNER'S MANUAL CAREFULLY.

TOOLS AND ITEMS NEEDED

The following is a list of all the tools and supplies needed to assemble and initially service your Spader Attachment.

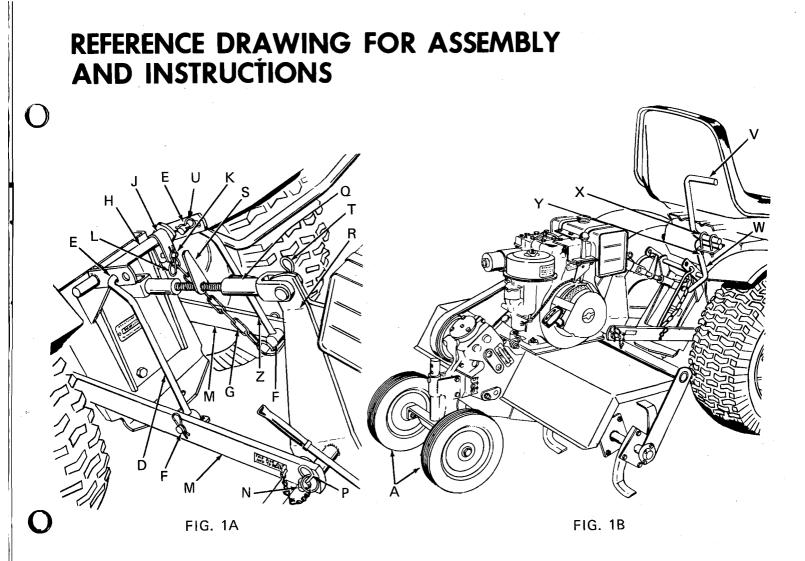
1 Wrench (open or box end) 9/16

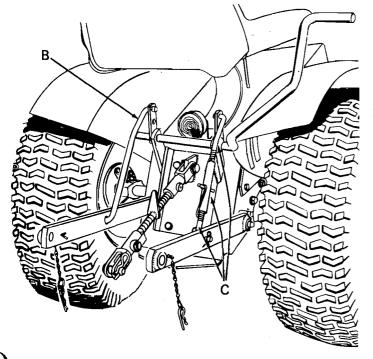
ASSEMBLY INSTRUCTIONS

A letter in parentheses in the following instructions refers to an arrow in the adjoining Figure (illustration), except when otherwise stated. When "R.H." (Right Hand) or "L.H." (Left Hand) is used, it should be understood to mean as if one were seated on the tractor seat facing forward.

Your Spader has been shipped from the factory partially assembled for shipping purposes. Open the bags of parts at this time. The contents of the bags of parts are as follows:

- 1 Owner's Manual
- 1 Lift link and stop-L.H. (D, Figure 1A)
- 1 Lift link and chain—R.H. (Z, Figure 1A)
- 5 Retainer springs (1 on each end of D, and one at L, Figure 1A)
- 1 Clevis (J, Figure 1A)
- 1 Rivet (K, Figure 1A)
- 1 Lift handle extension (V, Figure 1B)
- 1 U-Bolt plate (X, Figure 1B)
- 2 U-Bolts (X, Figure 1B)
- 4 Locknuts (Y, Figure 1B)





- Place Spader on level ground where tractor can be backed up to Spader for assembly. Adjust Spader gauge wheels (A) so that engine is level. Refer to "Tilling Depth," page 5, for adjusting instructions.
- 2. Remove the following items from the three-point hitch. Refer to Figure 2.

Lift link--L.H. (B) Lift link upper--R.H., turnbuckle and lift link lower R.H. (C), assembled together.

Save the above parts for future use of 3-point hitch with other attachments.

- 3. Refer to Figure 1A. Assemble the floating-type lift links (D) & (Z) (included in bag of parts to inner holes (E) of each lever, as shown. Secure with retainer springs (U). NOTE: Offset end of links must be to top and positioned in the lower two holes, as shown.
- 4. Assemble lift-link swivel (F) to lower lift arms as shown and secure with retainer springs. Refer to Figure 1A.

FIG. 2

- 5. With lift lever in forward (raised) position, attach limit chain (G) to lift-lever cross-shaft (H) with clevis (J). Secure with rivet (K) and retainer spring (L). Refer to Figure 1A
- Back tractor up to Spader and attach rear of bottom links (M) to pin (N) on Spader and secure with retainer spring (P). Refer to Figure 1A.
- 7. Assemble clevis (Q) to hitch bar (R).

NOTE: It may be necessary to adjust adjusting screw and handle (S) to assemble clevis (Q) to hitch bar (R), and to keep Spader level. Secure with retainer spring (T).

 Assemble lift handle extension (V) to lift lever (W) with Ubolts, plate and locknuts (X). Tighten nut securely. Refer to Figure 1B.

INSTRUCTIONS BEFORE OPERATION

WARNING TO PURCHASERS OF INTERNAL-COM-BUSTION ENGINE-EQUIPPED MACHINERY OR DEVICES IN THE STATE OF CALIFORNIA

The equipment which you have purchased does not have a spark arrester. If this equipment is used on any forest-covered land, brush-covered land or grass-covered, unimproved land in the state of California, before using on such land, the California law requires that a spark arrester be provided. In addition, such spark arrester is required by law to be in effective working order. The spark arrester must be attached to the exhaust system and comply with Section 4442 of the California Public Resources Code.

FUEL SHUT-OFF VALVE

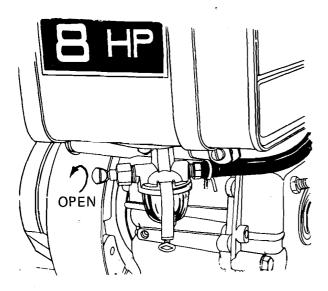


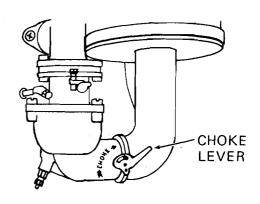
FIG. 3

 <u>Check</u> oil level in transmission and engine. Transmission capacity: 1¼ quarts; oil should be to level of filler hole. Engine capacity: Approximately 2¾ pints. Fill to overflowing. NOTE: Spader must be level. Fill fuel tank with clean, fresh, regular-grade gasoline. Capacity: 1 gallon. Wipe off any spilled fuel and oil.

NOTE: There are two (2) grease fittings on your Spader. One at each outboard bearing. Use Multipurpose Pressure Gun Grease. Fill until grease comes out the inner end of bearings. Grease every eight (8) hours. Figure 7, page 5.

- Lift Spader with 3-point hitch. Be sure Spader clutch lever is disengaged (lever pulled down). Refer to Figure 14.
- 3. Open fuel shut-off valve. Shut off this valve after each day's operation. Refer to Figure 3.

HOW TO START AND STOP





- To start a cold engine, move manual choke control to full choke position; refer to Figure 4.
- 2. Place throttle control in RUN position.

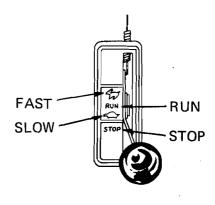
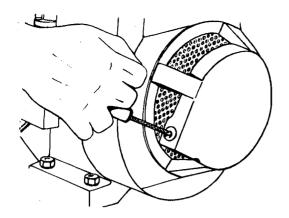


FIG. 5

3. Grasp recoil starter handle and pull sharply. DO NOT allow starter rope to snap back. Rewind slowly, keeping hold of the starter handle at all times, as shown in Figure 6.





- 4. As engine warms up and begins to operate evenly, advance choke control to ½ position and then to NO CHOKE. If engine falters, return to ½ choke until engine runs smoothly, then advance to NO CHOKE position.
- Engage Spader clutch lever (lever pulled up); refer to Figure 14. Then disengage several times to check the clutching action of the belts. If it is not clutching properly, see "Belt Adjustment," page 8.
- 6. To stop Spader and engine, release Spader clutch control lever and move throttle control lever to STOP position.

 Check oil in transmission at the time of the initial engine oil change and prior to each use. Remove pipe plug located on R.H. side of transmission. Oil level must be even with bottom of plug. If necessary, add Allstate S.A.E. 30 motor oil for service, MS,SC,SD or SE. Replace pipe plug.

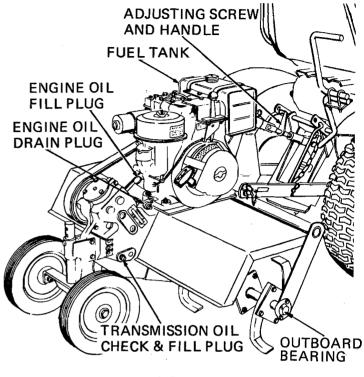


FIG.7

- 4. Start Spader engine.
- 5. Start tractor engine.
- 6. Engage clutch on Spader and move throttle lever to full throttle position
- 7. Place tractor in slowest forward speed with throttle at idle speed or just above and engage tractor clutch.
- 8. Lower Spader.

KNOW THE CONTROLS AND HOW TO STOP QUICKLY-READ THE OWNER'S MANUAL.

TILLING DEPTH

 The tilling depth is controlled by the gauge wheels shown above and to some extent by the adjusting screw and handle. Refer to Figure 8. When deeper tilling is required, the gauge wheels must be raised. Wheels must be lowered for shallower tilling. Remove retainer spring from drilled rivet. Adjust gauge wheels up or down as desired and replace rivet and retainer spring.

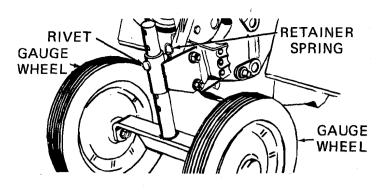
OPERATION INSTRUCTIONS

 Since the Spader is run at full throttle at all times, we feel a break-in period is necessary for longer Spader life. Run engine at ½ throttle for approximately 2 hours before actual tillage.

IMPORTANT: BE EXTREMELY CAREFUL TO PREVENT DIRT OR FOREIGN PARTICLES FROM ENTERING THE ENGINE CRANKCASE OR TRANSMISSION WHEN CHECKING OIL LEVEL.

<u>Change</u> engine oil after the first 5 hours of operation. Always drain the oil while engine is warm. Remove drain plug at rear of engine and tilt Spader backward to completely drain all old oil. Replace drain plug. Be sure Spader is level and fill to overflowing with S.A.E. 30 motor oil, MS,SC,SD or SE. Oil capacity: Approximately 2-3/4 pints.

7086R-20.1.75





NOTE: Each hole will raise or lower gauge wheels 1 inch. Spader can be levelled if necessary by turning adjusting screw and handle, shown in Figure 7. The adjusting screw and handle also control tilling depth. Shortening adjusting screw will increase tilling depth, and lengthening adjusting screw will decrease tilling depth. However, try to keep Spader level at all times.

- 2. The most efficient tillage is obtained when Spader engine is fully loaded. The sound of Spader engine will tell you. When Spader engine is lightly loaded, raise gauge wheels to increase tilling depth. If engine seems to be overloaded or stalls out, lower gauge wheels for shallower tilling.
- Operate Spader engine at full throttle and operate tractor in slowest forward speed, with tractor engine at idle speed or just above idle. You will soon learn the proper combination of tilling depth and speed for good tillage.
- 4. Soil conditions will determine how deep Spader can penetrate on the first pass. In extremely hard ground, several passes may be necessary to till to a depth of 6 inches, while in soft ground, Spader may penetrate to a depth of 6 inches in the first pass.
- 5. NOTE: Tractors equipped with speed changer: It is necessary to purchase a slow-speed pulley to slow down ground travel. If 3-point hitch does not have two holes in lever crank on lever, drill another 17/32-inch hole in each lever crank, ¾ inch in from present hole center.

CULTIVATING

Set gauge wheels so that Spader will penetrate soil to a depth of 2 to 3 inches. The Spader engine should be run at full throttle, except when cultivating small plants, a slower engine speed is necessary to prevent burying the plants.

MAINTENANCE AIR CLEANER

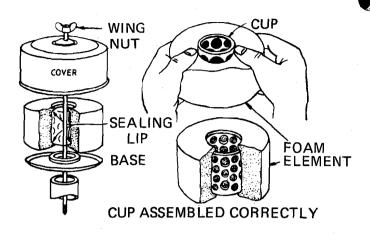


FIG. 9

Clean and re-oil the air cleaner frequently (every few hours under extremely dusty conditions). Clean and re-oil at least every 25 hours under normal conditions.

- 1. Remove wing nut and cover.
- 2. Lift off foam element from base.
- 3. Push down foam element as shown, and pull out cleaner cup.
- 4. a. Wash foam element in liquid detergent and water to remove dirt.
 - b. Wrap foam in cloth and squeeze dry.
 - c. Saturate foam with fresh engine oil. Squeeze to remove excess oil.
 - d. Put air cleaner cup inside element. Be sure sealing lip is over end of cup (top and bottom).
- 5. Reassemble parts as shown. Screw wing nut down tight.

IMPORTANT: NEVER RUN ENGINE WITH AIR CLEANER REMOVED.

DUSTY CONDITIONS

Service engine regularly in dusty conditions. Air filter should be cleaned every day and change engine oil every 15 hours of operation. In extreme dusty conditions, clean air filter every 4 hours and change engine oil every 10 hours of operation. The service given engine greatly affects the life of the engine. KEEP THE ENGINE CLEAN AND FREE FROM ACCUMULATIONS OF GRASS, LEAVES, SPILLED OIL OR GASOLINE, ETC. THE PRESENCE OF SUCH COMBUSTIBLE MATERIALS MAY CAUSE FIRE.

STARTER AIR SCREEN

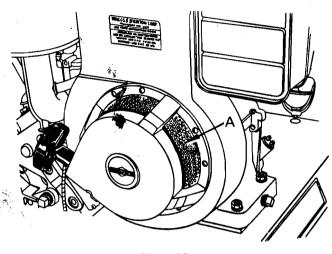
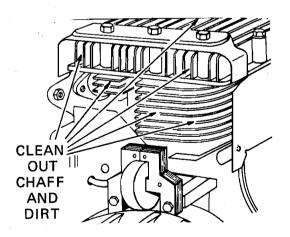


FIG. 10

Keep screen (A) around starter clean. Air is brought in through screen to cool engine. Clean with a brush frequently.

CYLINDER FINS

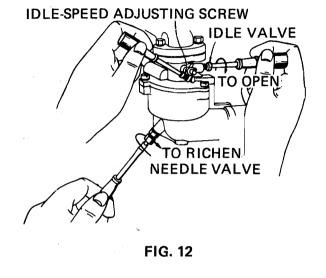




1. Grass or chaff may clog system after prolonged service. Continued operation with a clogged cooling system causes severe overheating and possible engine damage. 2. Remove blower housing and clean regularly.

KEEP ENGINE IN GOOD OPERATING CONDITION AND KEEP SAFETY DEVICES IN PLACE.

CARBURETOR



- 1. Minor carburetor adjustment may be required to compensate for differences in fuel, temperature, altitude and load.
- 2. TO ADJUST CARBURETOR: Turn needle valve clockwise until it just closes.

VALVE MAY BE DAMAGED BY TURNING IN TOO FAR. TIGHTEN BY HAND ONLY.

- 3. Now open needle valve 1-1/8 turns counterclockwise. Close idle valve in same manner and open 1-1/8 turns. This initial adjustment will permit the engine to be started and warmed up prior to final adjustment.
- 4. FINAL ADJUSTMENT: Turn needle valve in until engine misses (lean mixture), then turn it out past smooth-operating point until engine runs unevenly (rich mixture). Now turn needle valve to the midpoint between rich and lean so the engine runs smoothly. Hold throttle at idle position and set idle-speed adjusting screw until fast idle is obtained (1750 RPM). Move throttle control lever to slow position and turn idle valve in (lean) and out (rich) until engine idles smoothly. Then reset idle-speed adjusting screw so that engine idles at 1750 RPM. Move throttle control lever to fast position—engine should accelerate without hesitation or sputtering. If engine does not accelerate properly, the carburetor should be readjusted to a slightly richer mixture.

SPARK PLUG

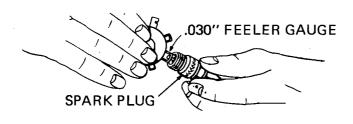


FIG. 13

Clean and reset gap at .030 inch every 100 hours of operation. Blast-cleaning of spark plugs in machines that use abrasive grit is NOT recommended. Spark plugs should be cleaned by scraping or wire brushing and washing with a commercial solvent or gasoline. Should spark plug need replacing, use Champion CJ-8 or equivalent.

DISENGAGE POWER TO ANY ATTACHMENT, STOP ENGINE AND DISENGAGE SPARK PLUG BEFORE MAKING REPAIRS OR ADJUSTMENTS.

ENGINE LUBRICATION

CHECK OIL LEVEL REGULARLY—AFTER EACH 5 HOURS OF OPERATION. STOP ENGINE AND WAIT SEVERAL MINUTES BEFORE CHECKING OIL LEVEL. BE SURE OIL LEVEL IS MAIN-TAINED AND SPADER IS ON LEVEL GROUND.

1. Change oil after first 5 hours of operation. Thereafter, change oil every 25 hours of operation. Remove oil drain plug and drain oil while engine is warm.

NOTE: THE BEST TIME TO DRAIN OIL IS AT THE END OF A DAY'S OPERATION, AT WHICH TIME THE OIL IS HOT AND ALL DIRT AND FOREIGN MATERIAL ARE SUSPENDED IN THE OIL.

 Refill engine crankcase with oil as instructed on page 2. Capacity: 2% pints. Nothing should be added to the recommended oil. Check oil level after each 5 hours of operation and add oil, if necessary, to bring to correct level.

TRANSMISSION LUBRICATION

1. **NOTE:** The oil level of the transmission should be checked at the time of the initial engine oil change (after 5 hours of

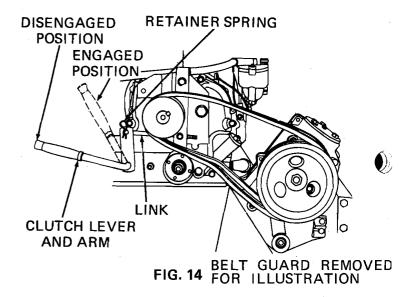
operation). Remove fill plug (refer to Figure 7), located at R.H. side of transmission. Oil level must be even with bottom of plug. Add oil, if necessary. Use S.A.E. 30 motor oil for service, MS or equivalent. Replace fill plug.

 IMPORTANT: It is not necessary to change the oil in this Spader transmission. If, for any reason, it must be changed, oil capacity is 1 1/4 quarts of S.A.E. 30 motor oil for service, MS or equivalent.

OUTBOARD BEARING LUBRICATION

1. There are two (2) grease fittings on your Spader. One at each outboard bearing. Use Multipurpose Pressure Gun Grease. Fill until grease comes out the inner end of bearings. Grease every eight (8) hours. (Page 5, Fig. 7)

BELT ADJUSTMENT



The clutch is a belt-tightener type. Belts should be just tight enough to prevent slippage. To tighten belts, remove retainer spring securing belt-tightener link to lever and arm, and turn link in a counterclockwise direction, when standing in front of Spader, one turn at a time, until belts no longer slip. Belts that are too tight stretch, require more H.P., and put more strain on bearings.

BELT REPLACEMENT

- 1. Remove three bolts holding belt guard to Spader.
- 2. Remove old belts.
- 3. Install new belts so that lower sides of belts are above idler, as shown.
- 4. Replace belt guard.

STORAGE

Engines to be stored over 30 days should be completely drained of fuel to prevent gum deposits forming on essential carburetor parts, fuel filter, fuel lines and tank.

- 1. Drain fuel tank completely and clean fuel filter.
- 2. Operate engine until gasoline in carburetor is completely consumed.
- 3. While engine is still warm, drain oil from crankcase. Refill with fresh oil.
- 4. Remove spark plug, pour one ounce (2 or 3 tablespoons) of S.A.E. 30 motor oil into cylinder and pull starter rope slowly to distribute oil. Replace spark plug.
- 5. Clean dirt and chaff from cylinder head fins, blower housing and entire Spader.

IF ROTO-SPADER IS TO BE STORED FOR AN EXTENDED PERIOD, EMPTY THE GASOLINE-STORAGE CONTAINER, EITHER DISCARDING THE GASOLINE IN A SAFE PLACE OR USING IT IN OTHER GASOLINE-POWERED EQUIPMENT FOR WHICH IT MAY BE SUITED.

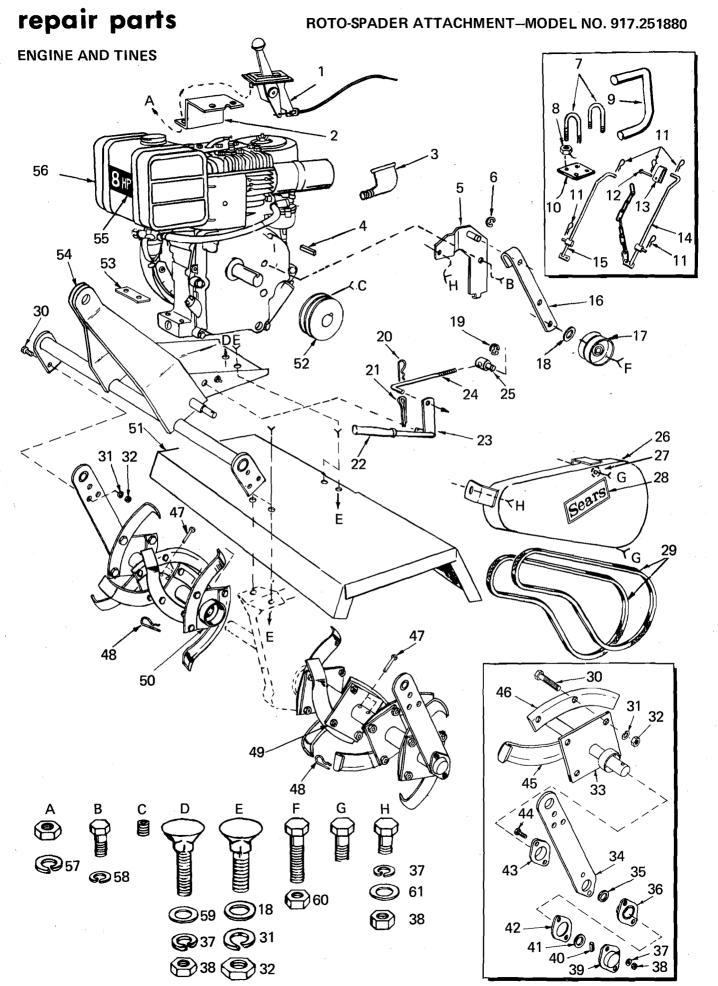
STORE YOUR SPADER INSIDE A DRY, WEATHER -PROOF BUILDING.

GENERAL

- 1. Just as your automobile needs professional mechanical maintenance from time to time, so does your air-cooled engine. Periodic replacement of the spark plug (every 100hrs) is made necessary by NORMAL use.
- 2. Professional air-cooled-engine service is as close as your nearest Sears service department.
- 3. A yearly check-up or tune-up by a Sears service department is a good idea to avoid breakdowns or delays. Do it each fall; then, you're ready for spring. We even prepare it for storage for you.

MAJOR REPAIRS SHOULD NOT BE ATTEMPTED UNLESS YOU HAVE THE PROPER TOOLS AND A THOROUGH KNOWLEDGE OF THIS MACHINE.

Sears, Roebuck and Co. or Simpsons-Sears, Ltd. in Canada reserves the right to make any changes in design or improvements without imposing any obligation to install the same upon its items heretofore manufactured.



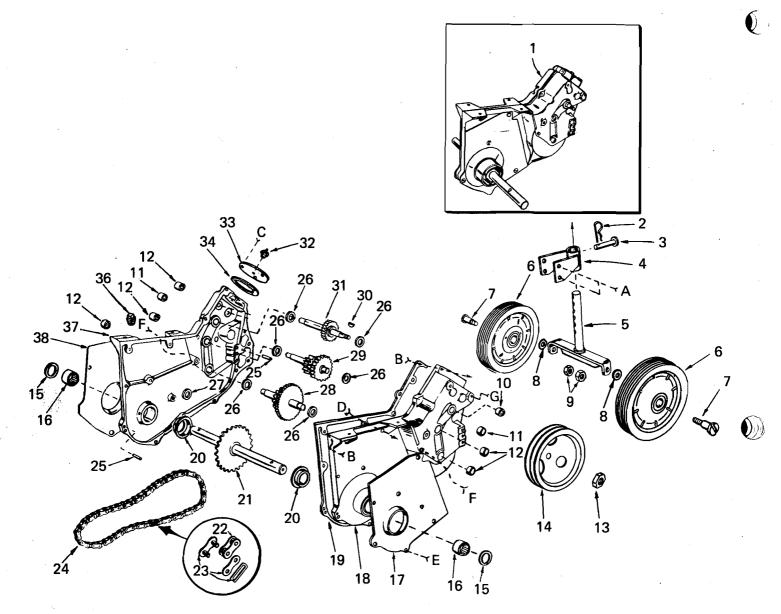
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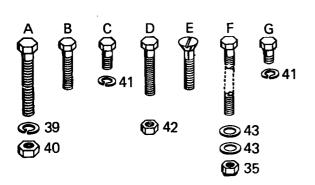
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ENGINE AND TINES

KEY NO.	PART NO.	DESCRIPTION	KEY NO.	PART NO.	DESCRIPTION
1	7093R	Throttle Control	48	3146R	Retainer Spring
2 3	3468R 4012P	Throttle Control Bracket Street Elbow-Std. 90 ⁰	49	634A556	Tine Plate and Hub L.H. (Less Tines)
4 5	4914H 624A38	Square Key 1/4 Sq. Idler Arm Support and Pivot	50	634A557	Tine Plate and Hub R.H. (Less Tines and Outer Tine Plate)
6	5015P	E-Ring	51	3467R	Tine Shield
7	6678H	UBolt	52	3471R	Engine Sheave
8	545P	★ Gripco Crown Locknut 3/8-16	53	7061R	Engine Base Strap
9	3457R	Lift Handle Extension	54	634A717	Hitch Plate Weldment
10	6665H	U Bolt Plate	55	6841R	Scotchcal 8 H.P.
11	4939M	Retainer Spring	56	634A714	Engine 8 H.P. Briggs and
12	6991A	Drilled R.H. Rivet	50	004/114	Stratton 190402
13	6881R	Clevis	57	1002P	★ Lockwasher 1/4
14	634A707	Lift Link and Chain R.H.	58	1000P	★ Lockwasher 1/2
15	634A702	Lift Link and Stop L.H.	59	1511P	\star Washer 3/8 x 7/8 x 14 Ga.
16	9401H	Idler Arm	60	508P	★Hex Jam Nut 3/8-16
17	3475R	Idler Pulley	61	1537P	\star Washer 11/32 x 11/16 x 16 Ga.
18	1556P	\star Washer 13/32 x 7/8 x 14 Ga.	A	503P	*Hex Nut 1/4-20
19	6683H	E-Ring	В	3234P	*Hex Bolt 1/2-20 x 3/4
20	4497H	Retainer Spring	č	4531P	★ Hex Socket Holless. Set Screw
21	2501P	★Cotter Pin 5/32 x1	•		5/16-18 x 3/8
22	4379H	Handle Grip	D	56P	Plow Bolt 5/16-18 x 2
23	634A60	Lever and Arm	Е	44P	Plow Bolt 3/8-16 x 1-1/4
24	6652H	Belt Retainer Link	F	3028P	★Hex Bolt 3/8-16 x 1-3/4
25	6656H	Adjusting Pin	G	6024P	Hex Bolt w/Ext. Tooth Lock-
26	634A718	Belt Guard and Brackets			washer 5/16-18 x 3/4
27	1556P	★Washer 13/32 x 7/8 x 14 Ga.	н	3010P	★Hex Bolt 5/16-18 x 3/4
28	5708H	Scotchcal (Sears)		7086R	Owner's Manual
29	634A563	Set of 2 Matched V-Belts			
30	3091P	★Hex Bolt 3/8-16 x 1 H.T. Grade 5			EQUIPMENT
31	1004P	★Lockwasher 3/8		(NOT ILLU	STRATED)
32	501P	★Hex Nut 3/8-16	•	05051	
33	634A716	Tine Shaft-Outer, Plate and		3567H	Slow Speed Engine Pulley for 1"
~ ~ ~		Shield		010011	Dia. Shaft
34	7050R	End Plate, Outer		6109H	Slow Speed Engine Pulley for
35	7067R	Oil Seal		250011	1-1/8" Dia. Shaft
36	634A719	Outer Bearing and Seal ★Lockwasher 5/16		3568H	V-Belt for 3567H or 6109H
37 38	1003P	\star Lockwasher 5/16 \star Hex Nut 5/16-18		5352H1	Slow Speed Engine Pulleys
30 39	504P 634A720	Dust Cap and Grease Fitting		555211	Slow Speed Engine Pulley for 3-Speed Custom Tractor
40	1306H	Roll Pin $1/4 \ge 1-1/2$		5559H	V-Belt for 5352H1 Engine
40	7396H	Thrust Bearing Race		555911	Pulley
42	7094R	Gasket			i uney
43	7055R	Dust Shield			
44	3135P	★Hex Bolt 5/16-18 x 1-1/4			
-1-4	51551	Grade 5			
45	6712H	Tine L.H.			
46	6713H	Tine R.H.			
47	4929H	Drilled Pan Hd. Rivet 3/8 x			
		1-3/4	* STAN	JDARD HA	RDWAREPURCHASE LOCALLY
	•				

TRANSMISSION AND GAUGE WHEELS





TRANSMISSION AND GAUGE WHEELS

KEY	PART		KEY	PART	
NO.	NO.	DESCRIPTION	NO.	NO.	DESCRIPTION
1	634A562	Transmission	29	634A58	1st Reduction Shaft and Gears
	4939M	Retainer Spring	30	9858M1	Woodruff Key 3/16 x 5/8
2 3	4929H	Drilled Pan Head Rivet 3/8 x 3/4	31	634A57	Input Shaft and Pinion
4	634A61	Gauge Wheel Sleeve and Brackets	32	5855H	Relief Valve
5	634A559	Gauge Wheel Adjusting Shaft and	33	6672H	Gear Shift Cover
		Brackets	34	4913H	Gasket
6	3474R	Wheel	35	1685H	Locknut 5/16-18
7	4898H	Shoulder Bolt	36	4002P	Pipe Plug 1/2 14 N.P.T.
8 9	1557P	★Washer 13/32 x 13/16 x 11 Ga.	37	624A57	Gear Case and Bearings
9	514P	★ Locknut			R.H. Half
10	3136R	Needle Bearing	38	4878H1	Gear Case Shield R.H.
11	6677H	Needle Bearing Shell	39	1004P	★Lockwasher 3/8
12	4895H	Needle Bearing	40	501P	★Hex Nut 3/8-16
13	9204H	Hex Nut 1/2-20	41	1003P	★ Lockwasher 5/16
14	3472R	Input Sheave	42	504P	★Hex Nut 5/16-18
15	49 10H	Oil Seal	43	7850H	Spacer
16	4896H	Needle Bearing	Α	3030P	★Hex Bolt 3/8-16 x 2-1/4
17	4877H1	Gear Case Shield L.H.	В	5586P	Hex Hd. Roll Lok Tapping
18	624A56	Gear Case and Bearings			Screw 5/16-18 x 1-1/2
		L.H. Half	С	3010P	★Hex Bolt 5/16-18 x 3/4
19	2601R	Gasket	D	3015P	★Hex Bolt 5/16-18 x2
20	4870H	Thrust Cap	Е	5585P	Flat Hd. Slotted Roll Lok
21	634A555	Tine Shaft and Sprocket			Tapping Screw 5/16-18 x 1-1/2
22	4950H	Roller Link	F	3018P	★Hex Bolt 5/16-18 x 6
23	4949H	Connecting Link	G	3008P	★Hex Bolt 5/16-18 x 1/2
24	2600R	Roller Chain			
25	9880M	Dowel Pin			
26	1370H	Thrust Bearing Race			
27	4912H	Gasket			
28	634A59	2nd Reduction Shaft and Gears			

★ STANDARD HARDWARE--PURCHASE LOCALLY

8 H.P. ENGINE MODEL NUMBER 190402

TYPE NUMBER 0858-01

(Call Ø n $\overline{\odot}$ DP? ·6 CAL ò n Ð * REQUIRES SPECIAL TOOLS FOR INSTALLING 11-37-+080 23 CARBURETOR OVERHAUL KIT 38---optro Mont æ I. ᠿ 28 () - 40 1 - 58 - 59 . എ .56 íØ 60 👹 <u>5</u>7 - 52 ∽--51 50

8 H.P. ENGINE MODEL NUMBER 190402

TYPE NUMBER 0858-01

KEY NO.	PART NO.	DESCRIPTION	KEY NO.	PART NO.	DESCRIPTION
1	221907	Clip-Wire	35	91920	Screw-Mach. Fil. Hd. No. 8-32
2	221935	Bracket-Fuel Tank			x 5/8
3	69221	Cap-Fuel Tank	36	26157	Spring-Throttle
4	290816	Tank Assy Fuel	37	93453	Nut-Wing
5	221468	Cover-Air Cleaner	38	230768	Stud-Air Cleaner
6	280001	Cup-Air Cleaner	39	390311	Pipe AssyAir Clèaner
2 3 4 5 6 7 8	270093	Element-Air Cleaner	40	90746	Screw-Mach., Fil. Hd.
8	390400	Cleaner Assy Air			No. 10-32 x 5/8
9	230318	Connector-Fuel Pipe	41	92290	Washer-Lock No. 10 x
10	22547	Screen-Fuel Filter			1/16 x 3/64
11	99665	Yoke-Fuel Filter	42 1	1 230896	Pin-Float Hinge
12	295984	Filter Assembly-Fuel	43	99333	Float-Carburetor
13	298683	Bowl-Fuse Filter	44	299096	Valve-Fuel Inlet
14	*68477	Gasket-Fuel Filter		390395	Nozzle-Carburetor
15	295913	Valve-Fuel Shut-off		68667	Gasket-Nozzle
16	296005	Cover Assembly-Fuel	47	23117	Retainer, Needle Valve
17	291367	Strap AssyFuel Tank	48	68677	Packing, Needle Valve
18	91257	Screw-Mach, Fil, Hd.	49	23118	Nut, Needle Valve Packing
		$\frac{1}{4}$ -20 x 1 $\frac{1}{2}$	50	230009	Valve Needle
19	90970	Nut-Square ¼-20	51	220521	Retainer-Carburetor
20	93535	Screw-Sems			Drain Filter
21	294606	Seal-Oil	52	27590	Filter-Carburetor Drain
22	295962	Bushing-Cylinder	53	390403	Body AssyLower
		Note: Requires special			Carburetor
-		tools for installation	54	298875	Shaft And Lever Choke
23	295938	Carburetor Over Haul Kit	55	62899	Washer - Choke Lever
24	93038	Screw-Throttle and Choke	56	26155	Spring - Choke Lever
		Valve Mfg. Sem	57	23123	Screw - Choke Lever
25	62940	Valve-Throttle	58	93038	Screw-Throttle and Choke
26	67218	Connector-Fuel Pipe	•••		Valve Mtg. Sem
27	298826	Shaft and Lever-Throttle	59	62872	Valve-Choke
	t 27918	Gasket-Carburetor Body	60	222150	Strap-Air Cleaner Pipe
29	390503	Body-Upper Carburetor	61	66648	Gasket-Air Cleaner Stud
30	23108	Bushing-Throttle Shaft	62	92129	Nut-Hex $\frac{1}{4}$ -28
31	† 292681	Valve Assembly-Carburetor (dle	63	93158	Screw-Sem
32	61967	Stop-Throttle	.64	390323	Carburetor Assy.
33	93043	Pin-Throttle Stop	65	93053	Clamp-Fuel Pipe
34	390404	Body Assembly-Upper	66	299942	Pipe-Fuel
54	070404	Carburetor			
		Carborelot			·

*Included in gasket set part no. 299577

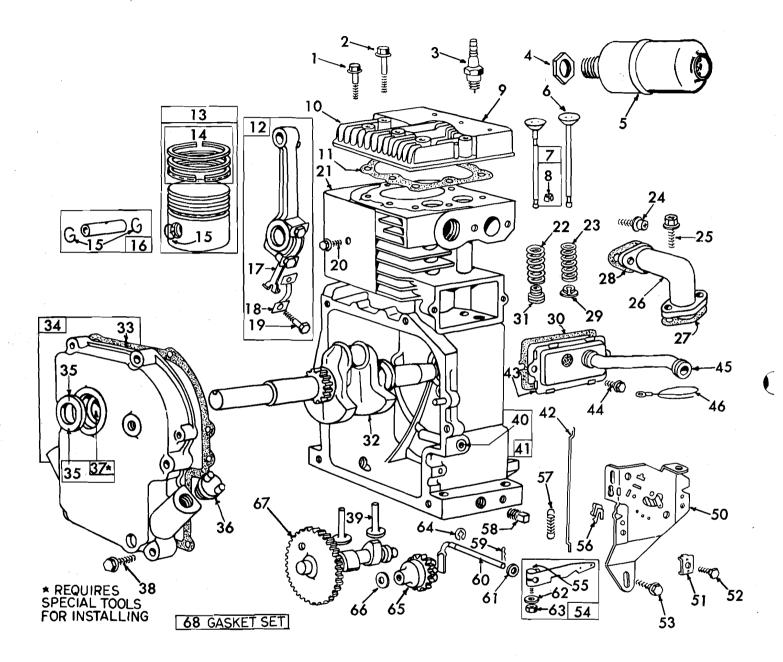
t Included in carburetor overhaul kit part no. 295938

8 H.P. ENGINE MODEL NUMBER 190402

TYPE NUMBER 0858-01

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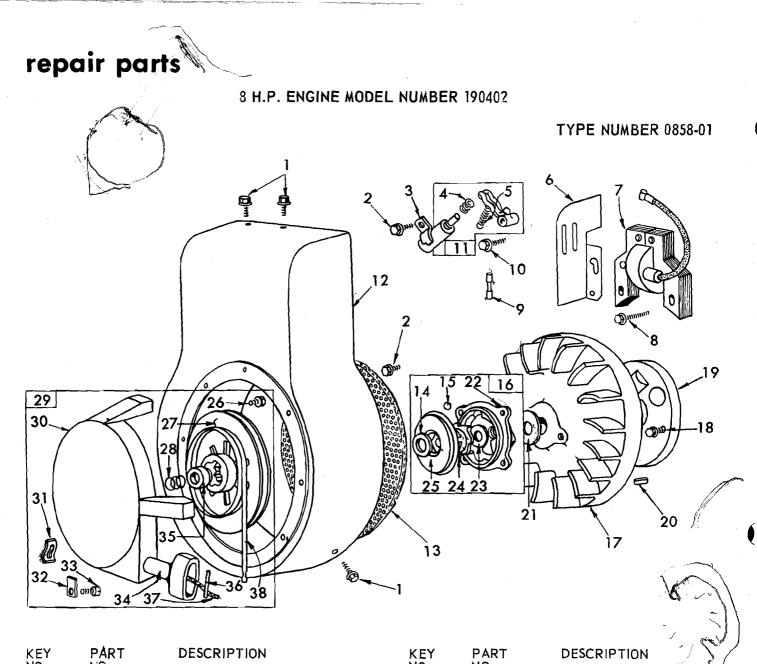
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8 H.P. ENGINE MODEL NUMBER 190402

TYPE NUMBER 0858-01

K EY NO	PART NO.	DESCRIPTION	K EY NO.	PART NO.	DESCRIPTION
· 1	93210	Screw-Cylinder Head	22	26828	Spring-Exhaust Valve
•	00011	(2-9/32 long)	23	65906	Spring-Intake Valve
2	93211	Ścrew- Cylinder Head (2-9/16 long)	24	93208	Screw-Intake Elbow Mounting Sem.
3	298809	Plug-Spark	25	93128	Screw-Carburetor
		Note: Spark plugs	0.4	011010	Mounting Sem.
		298809 use ignition	26	211812	Elbow-Intake Gasket-Intake Elbow
		cable terminal no. 221798	27 28	* 270684 * 27828	Gasket-Intake Elbow Mtg.
4	91242	Locknut- Muffler	20	221596	Retainer-Intake Valve
5	390578	Muffler-Exhaust	30	* 27803	Gasket-Valve Cover
4 5 6 7	261055	Valve-Intake	31	292260	Rotocoil-Exhaust Valve
7	390419	Valve-Exhaust	32	261077	Crankshaft
8	93630	Retainer-Exhaust Valve Rotocoil (2)	33	* 27750	Gasket-Crankcase cover 1/64" thick
9	221901	Cover-Cylinder Head		* 27876	Gasket- Crankcase cover
10	211778	Head-Cylinder			.005" thick
11 12	* 270430 390401	Gasket-Cylinder Head Rod AssyConnecting		* 27877	Gasket-Crankcase cover .009" thick
• 2	0,0,701	Note: For connecting rod	34	299167	Cover AssyCrankcase
		with .020'' undersize	34 35	298423	Seal-Oil
		crankpin bore-order no.	36	66768	Plug-Oil Filler
		390773	37	295964	Bushing-Crankcase Cover
13	390347	Piston Assembly Std.			Note: Requires special
	390348	Piston Assy010" O.S.	0.5		tools for installation
	390349	Piston Assy020" O.S.	38	93585	Screw-Crankcase cover
	390350 Biston tine	Piston Assy030" O.S.	39	260933	mounting sem. Tannot Value
	Piston ring	Note: For chrome ring set	40	230843	Tappet-Valve Bushing-Governor Shaft
		standard size order no.	41	390399	Cylinder Assembly
1		299743	42	260872	Link-Governor
14	299569	Ring Set-Piston-std.	43	390321	Breather Assembly
		Consists of 211637 piston	44	93536	Screw-Sem
		ring comp. top std. 211636	45	67068	Tube- Breather
		piston ring comp. center	46	299500	Wire-Ground
		std. 211635 piston ring	50	390670	Plate-Governor Control
	200570	oil std. Ring Set-Piston010'' O.S.	51	221535	Clamp-Casing
	299570	Consists of 211649 piston	52	93496	Screw-Sem.
		ring comp. top .010" O.S.	53 54	93535	Screw-Sem.
		211650 piston ring comp.	54 55	299165 92613	Lever AssyGovernor Bolt-Governor Lever
		center .010" O.S. 211651	56	297472	Switch-Stop
		piston ring oil .010" O.S.	57	261194	Spring-Governor
	299572	Ring Set-Piston-030'' O.S.	58	91084	Plug-Oil Drain
		Consists of 211657 piston	59	93306	Cotter-Hair Pin
		ring comp. top .030'' O.S.	60	230842	Crank-Governor
		211658 piston ring comp.	61	221559	Washer-Spacer
		center .030'' O.S. 211659 piston ring oil .030'' O.S.	62	220680	Washer
1 6	68546	Lock-Piston Pin	63	90356	Nut-Hex 10-24
15 16	295840	Pin AssyPiston-Std.	64	93307	Retainer-E-Ring
10	295841	Pin AssyPiston .005" O.S.	65 66	297656 221551	Gear-Governor Washer-Thrust
17	222113	Dipper-Connecting Rod	67	210728	Gear-Cam
18	222114	Lock-Conn. Rod Screw	68	299577	Gasket Set
19	92659	Screw-Connecting Rod			
20	93163	Screw-Cylinder Shield	* Includ	led in gasket se	t Part no. 299577
		Mtg. Sem.			
21	221898	Shield-Cylinder			

7086R - 11 10 74



1 93158 Screw-Sem. 19 222117 Cover-Breaker Point 2 93042 Screw-Sem. 20 61760 Key-Flywheel 3 220477 Clamp-Condenser 21 220865 Washer-Spring 4 260374 Spring-Connector 22 221383 Housing-Rewind Starter 5 26018 Spring-Breaker Arm 23 66718 Washer-Starter Clutch 7 298968 Armature Assembly 24 298799 Rachet-Rewind Starter 8 93381 Screw-Armature Mtg. 24 298799 Rachet-Rewind Starter 9 65704 Plunger-Breaker Point 25 221653 Washer-Retainer 10 93381 Screw-Breaker Arm 26 93067 Screw-Rewind Starter 11 294628 Breaker points and con- 27 295871 Pulley-Rewind Starter 11 294628 Breaker points et 65704 30 295272 Housing-Rewind Starter 12 299853 Housing-Blower 33 93254 Screw-Pulley Bumper 13 221796	NO.	NO.		NO.	NO.	
2 93042 Screw-Sem. 20 61760 Key-Flywheel 3 220477 Clamp-Condenser 21 220865 Washer-Spring 4 260374 Spring-Connector 22 221383 Housing-Rewind Starter 5 26018 Spring-Connector 22 221383 Housing-Rewind Starter 6 221760 Guide-Air 23 66718 Washer-Starter Clutch 7 298968 Armature Assembly 7 Clutch Thrust 8 93381 Screw-Armature Mtg. 24 298799 Rachet-Rewind Starter 9 65704 Plunger-Breaker Point 25 221653 Washer-Retainer 10 93381 Screw-Breaker Arm 26 93067 Screw-Rewind Starter 11 294628 Breaker points and con- 27 295871 Pulley-Rewind Starter 11 294628 Breaker point set 65704 30 295272 Housing-Rewind Starter 12 299853 Housing-Blower 33 93254 Screw-Pulley Bumper 12 299853 Housing	ſ	93158	Screw-Sem.	19	222117	Cover-Breaker Point
4260374Spring-Connector22221383Housing-Rewind Starter526018Spring-Breaker Arm2366718Washer-Starter Clutch6221760Guide-Air2366718Washer-Starter Clutch7298968Armature Assembly24298799Rachet-Rewind Starter893381Screw-Armature Mtg.24298799Rachet-Rewind Starter965704Plunger-Breaker Point25221653Washer-Retainer1093381Screw-Breaker Arm2693067Screw-Rewind Starter1093381Screw-Breaker Arm2693067Screw-Rewind Starter11294628Breaker points and con-27295871Pulley-Rewind Starter12294628Breaker point set 6570430295272Housing-Rewind Starter12299853Housing-Blower3268848Bumper-Starter Pulley12299853Housing-Blower3393254Screw-Pulley Bumper13221796Screen-Rewind Starter3466728Grip-Starter Rope1468238Washer-Ratchet Sealing3466728Grip-Starter Grip1563770Ball-Clutch35230543Adapter-Rachet Spring16298798Clutch AssyRewind36230228Pin-Starter Grip17298260Flywheel-Magneto38294303Spring-Rewind Starter	2		Screw-Sem.			Key-Flywheel
4260374Spring-Connector22221383Housing-Rewind Starter526018Spring-Breaker Arm2366718Washer-Starter Clutch6221760Guide-Air2366718Washer-Starter Clutch7298968Armature Assembly24298799Rachet-Rewind Starter893381Screw-Armature Mtg.24298799Rachet-Rewind Starter965704Plunger-Breaker Point25221653Washer-Retainer1093381Screw-Breaker Arm2693067Screw-Rewind Starter1093381Screw-Breaker Arm2693067Screw-Rewind Starter11294628Breaker points and con-27295871Pulley-Rewind Starter12294628Breaker point set 6570430295272Housing-Rewind Starter12299853Housing-Blower3268848Bumper-Starter Pulley12299853Housing-Blower3393254Screw-Pulley Bumper13221796Screen-Rewind Starter3466728Grip-Starter Rope1468238Washer-Ratchet Sealing3466728Grip-Starter Grip1563770Ball-Clutch35230543Adapter-Rachet Spring16298798Clutch AssyRewind36230228Pin-Starter Grip17298260Flywheel-Magneto38294303Spring-Rewind Starter	3		Clamp-Condenser	21		
526018 6Spring-Breaker Arm Guide-AirClutch Washer-Starter Clutch Thrust6221760 9Guide-Air2366718Washer-Starter Clutch Thrust7298968 93381Armature Assembly24298799 298799Rachet-Rewind Starter Clutch965704Plunger-Breaker Point Mounting Sem25221653 298067Washer-Retainer1093381Screw-Breaker Arm Mounting Sem2693067 2067Screw-Rewind Starter Housing Mtg. Sem.11294628Breaker points and con- ignition kit includes27295871 2925001Pulley-Rewind Starter Housing-Rewind Starter all 294628 point set 6570430295272 295001Housing-Rewind Starter Mounting12299853Housing-Blower flywheel.3268848 30Bumper-Starter Pulley Mounting1229853Housing-Blower Screen-Rewind Starter plunger and 61760 key- flywheel.3466728 30Grip-Starter Pulley Bumper Mounting13221796Screen-Rewind Starter Mounting3466728 31Grip-Starter Rope Adapter-Rachet Spring Ball-Clutch35230543 36Adapter-Rachet Spring Pin-Starter Grip Starter16298798Clutch AssyRewind Starter36230228 37Pin-Starter Grip Starter17298260Flywheel-Magneto38294303Spring-Rewind Starter				22		
6221760Guide-Air2366718Washer-Starter Clutch Thrust7298968Armature Assembly24298799Rachet-Rewind Starter Clutch89381Screw-Armature Mtg. Sem24298799Rachet-Rewind Starter Clutch965704Plunger-Breaker Point25221653Washer-Retainer1093381Screw-Breaker Arm Mounting Sem2693067Screw-Rewind Starter Housing Mtg. Sem.11294628Breaker points and con- denser set. Note: 29906127295871Pulley-Rewind Starter denser set. Note: 2990611229853Housing-Blower30295272Housing-Rewind Starter plunger and 61760 key- flywheel.3268848Bumper-Starter Pulley12299853Housing-Blower3393254Screw-Pulley Bumper Mounting1468238Washer-Ratchet Sealing3466728Grip-Starter Rope1563770Ball-Clutch35230543Adapter-Rachet Spring16298798Clutch AssyRewind36230228Pin-Starter Grip17298260Flywheel-Magneto38294303Spring-Rewind Starter	5	26018				
7298968 93381Armature Assembly Screw-Armature Mtg. Sem24298799 298799Rachet-Rewind Starter Clutch965704Plunger-Breaker Point Mounting Sem25221653Washer-Retainer1093381Screw-Breaker Arm Mounting Sem2693067Screw-Rewind Starter Housing Mtg. Sem.11294628Breaker points and con- denser set. Note: 29906128260414Spring-Rachet ignition kit includes29294628Breaker points et 65704 plunger and 61760 key- flywheel.31221014 32Anchor-Spring Mounting12299853Housing-Blower Screen-Rewind Starter fl3268848 466728Bumper-Starter Pulley Mounting1468238Washer-Ratchet Sealing Starter3466728 35Grip-Starter Rope 205431563770 StarterBall-Clutch Starter35230543 366Adapter-Rachet Spring 3716298798Clutch AssyRewind Starter36230228 37Pin-Starter Grip Starter17298260Flywheel-Magneto38294303Spring-Rewind Starter	6			23	66718	
893381Screw-Armature Mtg. Sem24298799Rachet-Rewind Starter Clutch965704Plunger-Breaker Point25221653Washer-Retainer1093381Screw-Breaker Arm Mounting Sem2693067Screw-Rewind Starter Housing Mtg. Sem.11294628Breaker points and con- denser set. Note: 29906127295871Pulley-Rewind Starter Housing Rachet agnition kit includes29294628 point set 6570430295272Housing-Rewind Starter Anchor-Spring flywheel.12299853Housing-Blower3393254Screw-Pulley Bumper Mounting13221796Screen-Rewind Starter Mounting3466728Grip-Starter Rope Mounting1468238Washer-Ratchet Sealing3466728Grip-Starter Rope Mounting16298798Clutch AssyRewind Starter36230228Pin-Starter Grip Starter17298260Flywheel-Magneto38294303Spring-Rewind Starter	7		Armature Assembly			Thrust
1093381Screw-Breaker Arm Mounting Sem2693067Screw-Rewind Starter Housing Mtg. Sem.11294628Breaker points and con- denser set. Note: 29906127295871Pulley-Rewind Starter denser set.11294628Breaker points and con- denser set. Note: 29906128260414Spring-Rachet ignition kit includes29295001Starter AssyRewind 294628 point set 6570430295272Housing-Rewind Starter plunger and 61760 key- glunger and 61760 key- flywheel.31221014Anchor-Spring Mounting12299853Housing-Blower Screen-Rewind Starter3268848Bumper-Starter Pulley Mounting13221796Screen-Rewind Starter Mounting3466728Grip-Starter Rope1468238Washer-Ratchet Sealing Starter3466728Grip-Starter Rope1563770Ball-Clutch Starter35230543Adapter-Rachet Spring Rope-Rewind Starter16298798Clutch AssyRewind Starter36230228Pin-Starter Grip Starter17298260Flywheel-Magneto38294303Spring-Rewind Starter	8		Screw-Armature Mtg.	24	298799	
1093381Screw-Breaker Arm Mounting Sem2693067Screw-Rewind Starter Housing Mtg. Sem.11294628Breaker points and con- denser set. Note: 29906127295871Pulley-Rewind Starter denser set.11294628Breaker points and con- denser set. Note: 29906128260414Spring-Rachet ignition kit includes29295001Starter AssyRewind 294628 point set 6570430295272Housing-Rewind Starter plunger and 61760 key- glunger and 61760 key- flywheel.31221014Anchor-Spring Mounting12299853Housing-Blower3393254Screw-Pulley Bumper Mounting13221796Screen-Rewind StarterMountingMounting1468238Washer-Ratchet Sealing3466728Grip-Starter Rope1563770Ball-Clutch35230543Adapter-Rachet Spring16298798Clutch AssyRewind36230228Pin-Starter Grip Starter17298260Flywheel-Magneto38294303Spring-Rewind Starter	9	65704	Plunger-Breaker Point	25	221653	Washer-Retainer
11294628Breaker points and con- denser set. Note: 29906127295871Pulley-Rewind Starter Spring-Rachetdenser set. Note: 29906128260414Spring-Rachetignition kit includes29295001Starter AssyRewind294628 point set 6570430295272Housing-Rewind Starterplunger and 61760 key- flywheel.31221014Anchor-Spring12299853Housing-Blower3393254Screw-Pulley Bumper13221796Screen-Rewind StarterMounting1468238Washer-Ratchet Sealing3466728Grip-Starter Rope1563770Ball-Clutch35230543Adapter-Rachet Spring16298798Clutch AssyRewind36230228Pin-Starter Grip17298260Flywheel-Magneto38294303Spring-Rewind Starter	10	93381	Screw-Breaker Arm	26		
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ignition kit includes 29 295001 Starter AssyRewind 294628 point set 65704 30 295272 Housing-Rewind Starter plunger and 61760 key- 31 221014 Anchor-Spring flywheel. 32 68848 Bumper-Starter Pulley 12 299853 Housing-Blower 33 93254 Screw-Pulley Bumper 13 221796 Screen-Rewind Starter Mounting 14 68238 Washer-Ratchet Sealing 34 66728 Grip-Starter Rope 15 63770 Ball-Clutch 35 230543 Adapter-Rachet Spring 16 298798 Clutch AssyRewind 36 230228 Pin-Starter Grip Starter 37 66564 Rope-Rewind Starter 17 298260 Flywheel-Magneto 38 294303 Spring-Rewind Starter				28		
294628 point set 6570430295272Housing-Rewind Starterplunger and 61760 key-31221014Anchor-Springflywheel.3268848Bumper-Starter Pulley12299853Housing-Blower339325413221796Screen-Rewind StarterMounting1468238Washer-Ratchet Sealing34667281563770Ball-Clutch35230543Adapter-Rachet Spring16298798Clutch AssyRewind36230228Pin-Starter Grip17298260Flywheel-Magneto38294303Spring-Rewind Starter			ignition kit includes	29	295001	Starter AssyRewind
plunger and 61760 key- flywheel.31 32221014 68848Anchor-Spring Bumper-Starter Pulley12299853Housing-Blower3268848Bumper-Starter Pulley13221796Screen-Rewind Starter3393254Screw-Pulley Bumper Mounting1468238Washer-Ratchet Sealing3466728Grip-Starter Rope1563770Ball-Clutch35230543Adapter-Rachet Spring16298798Clutch AssyRewind36230228Pin-Starter Grip Starter17298260Flywheel-Magneto38294303Spring-Rewind Starter			294628 point set 65704	30		
flywheel.3268848Bumper-Starter Pulley12299853Housing-Blower3393254Screw-Pulley Bumper13221796Screen-Rewind StarterMounting1468238Washer-Ratchet Sealing3466728Grip-Starter Rope1563770Ball-Clutch35230543Adapter-Rachet Spring16298798Clutch AssyRewind36230228Pin-Starter Grip17298260Flywheel-Magneto38294303Spring-Rewind Starter				31		
12299853Housing-Blower3393254Screw-Pulley Bumper13221796Screen-Rewind StarterMounting1468238Washer-Ratchet Sealing3466728Grip-Starter Rope1563770Ball-Clutch35230543Adapter-Rachet Spring16298798Clutch AssyRewind36230228Pin-Starter Grip17298260Flywheel-Magneto38294303Spring-Rewind Starter			flywheel.	32		
13221796Screen-Rewind StarterMounting1468238Washer-Ratchet Sealing3466728Grip-Starter Rope1563770Ball-Clutch35230543Adapter-Rachet Spring16298798Clutch AssyRewind36230228Pin-Starter Grip17298260Flywheel-Magneto38294303Spring-Rewind Starter	. 12	299853	Housing-Blower	33		
1468238Washer-Ratchet Sealing3466728Grip-Starter Rope1563770Ball-Clutch35230543Adapter-Rachet Spring16298798Clutch AssyRewind36230228Pin-Starter Grip17298260Flywheel-Magneto38294303Spring-Rewind Starter		221796	Screen-Rewind Starter		_	
1563770Ball-Clutch35230543Adapter-Rachet Spring16298798Clutch AssyRewind36230228Pin-Starter Grip16Starter3766564Rope-Rewind Starter17298260Flywheel-Magneto38294303Spring-Rewind Starter	14	68238		34	66728	
Starter 37 66564 Rope-Rewind Starter 17 298260 Flywheel-Magneto 38 294303 Spring-Rewind Starter	15	63770		35	230543	
Starter 37 66564 Rope-Rewind Starter 17 298260 Flywheel-Magneto 38 294303 Spring-Rewind Starter	16	298798	Clutch AssyRewind	36	230228	
17 298260 Flywheel-Magneto 38 294303 Spring-Rewind Starter			Starter	37	66564	

The Model Number will be found on a plate attached to the R.H. side of the transmission. Always mention the Model Number when requesting service or repair parts for your **ROTO-SPADER ATTACHMENT**

All parts listed herein may be ordered from any SEARS, ROEBUCK AND CO. or SIMPSONS-SEARS LIMITED retail or catalog store.

WHEN ORDERING REPAIR PARTS, ALWAYS GIVE THE FOL-LOWING INFORMATION:

- 1. PART NUMBER 3. PART DESCRIPTION
- 2. MODEL NUMBER
- 4. NAME OF MERCHANDISE

If the parts you need are not stocked locally, your order will be electronically transmitted to a Sears Repair Parts Distribution Center for "expedited handling".



When you buy merchandise from Sears you get an extra something that nobody else can offer . . . Sears Service.

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Sears, Roebuck and Co., Chicago, Ill. 60684 U.S.A. and Simpsons Sears Limited, Toronto

How to Order Repair Parts

333-7159

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Sears

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manual

MODEL NO.

917.251880