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Owner's Manual

CRAFTSMAN[®]

ROTARY LAWN MOWER

725 Series Briggs & Stratton Engine Power-Propelled Electric Start 22" Multi-Cut

Model No. 944.101780



CAUTION:

Read and follow all Safety Rules and Instructions before operating this equipment

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SAFETY RULES

IMPORTANT: This cutting machine is capable of amputating hands and feet and throwing objects. Failure to observe the following safety instructions could result in serious injury or death.

ALook for this symbol to point out important safety precautions. It means CAUTION!!! BECOME ALERT!!! YOUR SAFETY IS INVOLVED.

A WARNING: In order to prevent accidental starting when setting up, transporting, adjusting or making repairs, always disconnect spark plug wire and place wire where it cannot come in contact with plug.

hot during operation and remain hot after engine has stopped. To avoid severe burns on contact, stay away from these areas.



I. CHILDREN



WARNING: CHILDREN CAN BE SERIOUSLY INJURED OR KILLED BY THIS EQUIPMENT. Carefully read and follow all of the safety instructions below.

The American Academy of Pediatrics recommends that children be a minimum of 12 year of age before operating a pedestrian controlled lawn mower and a minimum of 16 years of age before operating a riding lawn mower.

Tragic accidents can occur if the operator is not alert to the presence of children. Children are often attracted to the machine and the mowing activity. *Never* assume that children will remain where you last saw them.

- Keep children out of the mowing area and under the watchful care of a responsible adult other than the operator.
- Be alert and turn machine off if children enter the area.
- Before and while walking backwards, look behind and *down* for small children.
- Never allow children to operate the machine.

II. GENERAL OPERATION

- Read, understand, and follow all instructions on the machine and in the manual(s) before starting. Be thoroughly familiar with the controls and the proper use of the machine before starting.
- Do not put hands or feet near or under rotating parts. Keep clear of the discharge opening at all times.
- Only allow responsible individuals, who are familiar with the instructions, to operate the machine.
- Clear the area of objects such as rocks, toys, wire, bones, sticks, etc., which could be picked up and thrown by blade. Stay behind the handle when the engine (motor) is running.
- Be sure the area is clear of other people before mowing. Stop machine if anyone enters the area.
- Do not operate machine barefooted or while wearing sandals. Always wear substantial footwear with good ankle support while mowing.
- Do not pull mower backwards unless absolutely necessary. Always look down and behind before and while moving backwards.
- Never direct discharged material toward anyone. Avoid discharging material against a wall or obstruction. Material may richochet back toward the operator. Stop blade when crossing gravel surfaces.
- Do not operate the mower without proper guards, plates, grass catcher or other safety protective devices in place.
- See manufacturer's instructions for proper operation and installation of accessories. Only use accessories approved by the manufacturer.
- Stop the blade(s) when crossing gravel drives, walks, or roads.
- Neverleave a running machine unattended.
- Stop the engine (motor) and wait until the blade comes to a complete stop before cleaning the machine, removing the grass catcher, or unclogging the discharge chute.

BRIGGS & STRATTON 4-CYCLE ENGINE

KEY NO.	PART NO.	DESCRIPTION	KEY NO.	PART NO.	DESCRIPTION
493	593330	Bracket-Mounting	923	595195	Brake
		(Carburetor)	951	591104	Lever-Choke
505	793515	Nut (Governor Control Lever)	957	594061	Cap-Fuel Tank
523	796503	Dipstick	968	594106	Cover-Air Cleaner
524	691876	Seal-Dipstick Tube	971	590552	Screw (Air Cleaner Base to
562	793514	Screw			Carburetor) (M4.2 x 14 mm)
		(Governor Control Lever)	972	594112	Tank-Fuel
578	595181	Wire Assembly	975	594632	Bowl-Float
598	592587	Shim-End Play (Crankshaft	1005	595182	Fan-Flywheel
		or Camshaft Bearing)	1022	595342	Gasket-Rocker Cover
601	791850	Clamp-Hose (Green)	1023	595352	Cover-Rocker
608	594062	Starter-Rewind	1026	590515	Rod-Push
613	590562	Screw (Muffler)			(Intake and Exhaust)
615	690340	Retainer-Governor Shaft	1029	590526	Arm-Rocker (Exhaust)
616	590516	Crank-Governor		590527	Arm-Rocker (Intake)
617	270344s	Seal-O Ring (Intake Manifold)	1036		Label-Emissions (Available
621	692310	Switch-Stop			from a Briggs & Stratton
623	799581	Seal-O Ring			Authorized Dealer)
		(Carburetor Spacer)	1058	N/A	Operator's Manual
635	692076	Boot-Spark Plug			(Not Available at this Printing)
668	590546	Spacer (Flywheel)	1127	590554	Screw (Float Bowl to
697	691108	Screw (Starter Motor)	1000		Carburetor Body)
74.0	000050	(1/4-20 x .5)	1238	590562	Screw (Carburetor Spacer)
718	690959	Pin-Locating	1000	007404	(M5 x 17.6 mm)
724	697478	Retainer-Seal	1263	697124	Reed-Breather
741	594105	Gear-Timing	1264	793453	Screw (Breather Reed)
745	691146 690589	Screw (Brake) (#10-32 x .8)	1000	N/A	(M4 x 9.9 mm)
745A 830	590536	Screw (Brake) (#10-32 x .5) Stud-Rocker Arm	1329	N/A	Replacement Engine (Not Available at this Printing)
832	590536 594109	Guard-Muffler	1330	N/A	Repair Manual
836	690661	Screw (Muffler Guard)	1330	N/A	(Not Available at this Printing)
842	691031	Seal-O Ring (Dipstick)		398067	Spark Arrester
847	594110	Dipstick/Tube Assembly		390007	(available accessory)
850	100106	Sealant-Liquid			(available accessory)
868	594096	Seal-Valve	Carbi	iretor Overl	naul Kit – Key Number 121
875	594090 594107	Base-Air Cleaner			et – Key Number 358
914	591103	Screw, Serrated	Ligiti		
517	001100	(Rocker Cover) (M4.8 x 18)	NOTE	- All comp	onent dimensions given in U.S.
922	692135	Spring-Brake		inches.	1 inch = 25.4 mm

KEY NO.	PART NO.	DESCRIPTION	KEY NO.	PART NO.	DESCRIPTION
1	595179	Cylinder Assembly	105	594581	Valve-Float Needle
3	299819s	Seal-Oil (Magneto Side)	117	594060	Jet-Main (Standard)
4	594101	Sump-Engine	118	594063	Jet-Main (High Altitude)
5	594091	Head-Cylinder			(5000 > 9000 Feet)
7	592358	Gasket-Cylinder Head	121	594636	Kit-Carburetor Overhaul
11	590522	Tube-Breather	122	590549	Spacer-Carburetor
12	799587	Gasket-Crankcase	125	594058	Carburetor
13	590512	Screw (Cylinder Head)	133	591120	Float-Carburetor
		(M7 x 60 mm)	137	594633	Gasket-Float Bowl (Pack of 5)
16	594104	Crankshaft	155	594093	Plate-Cylinder Head
20	399781s	Seal-Oil (PTO Side)	163	799580	Gasket-Air Cleaner
22	692551	Screw (Crankcase Cover /	187	791766	Line-Fuel
		Sump) (1/4-20 x 1.1)			(Cut to Required Length)
22A	590673	Screw (Crankcase Cover / Sump) (1/4-20 x .7)	188	793480	Screw (Control Bracket) (M5 x 14 mm)
23	595183	Flywheel	192	590535	Adjuster-Rocker Arm
24	222698s	Key-Flywheel (Aluminum)	202	590517	Link-Mechanical Governor
25	594099	Piston Assembly (Standard)	209	590541	Spring-Governor (Purple)
26	594098	Ring Set (Standard)	216	590547	Link-Choke
27	691588	Lock-Piston Pin	217	590740	Spring-Choke Return
28	298909	Pin-Piston	222	590560	Bracket-Control
29	594089	Rod-Connecting	227	590520	Lever-Governor Control
32	691664	Screw (Connecting Rod)	238	594097	Cap-Valve
33	594095	Valve-Exhaust	300	594108	Muffler
34	594094	Valve-Intake	305	590586	Screw (Blower Housing)
35	590532	Spring-Valve (Intake)			(M5 x 29 mm)
36	590532	Spring-Valve (Exhaust)	309	594360	Motor-Starter
37	595188	Guard-Flywheel	318	793480	Screw (Mounting Bracket)
40	594092	Retainer-Valve			(M5 x 14 mm)
43	697799	Slinger-Governor/Oil	332	690662	Nut (Flywheel)
45	590514	Tappet-Valve	333	595009	Armature-Magneto
46	594090	Camshaft	334	691061	Screw (Magneto Armature)
48	N/A	Short Block			(#8-32 x .9)
		(Not Available at this Printing)	337	491055s	Plug-Spark
58	591108	Rope-Starter	356	595018	Wire-Stop
60	281434s	Grip-Starter Rope	358	595354	Gasket Set-Engine
78	793480	Screw (Flywheel Guard)	404	690272	Washer (Governor Crank)
		(M5 x 14 mm)	445	593260	Filter-Air Cleaner Cartridge
104	590558	Pin-Float Hinge	455	593960	Cup-Flywheel

- Mow only in daylight or good artificial light.
- Do not operate the machine while under the influence of alcohol or drugs.
- Never operate machine in wet grass. Always be sure of your footing: keep a firm hold on the handle; walk, never run.
- Disengagethedrivesystem, if so equipped, before starting the engine (motor).
- If the equipment should start to vibrate abnormally, stop the engine (motor) and check immediately for the cause. Vibration is generally a warning of trouble.
- Always wear eye protection when operating machine.
- Use extra care when approaching blind corners, shrubs, trees, or other objects that may obscure vision.
- When loading or unloading this machine, do not exceed the maximum recommended operation angle of 15°.
- Wear proper Personal Protective Equipment (PPE) while operating this machine, including (at a minimum) sturdy footwear, eye protection, and hearing protection. Do not mow in shorts or open toed footwear. Always let someone know you are outside mowing.

III. SLOPE OPERATION

Slopes are a major factor related to slip & fall accidents, which can result in severe injury. All slopes require extra caution. If you feel uneasy on a slope, do not mow it. **DO:**

- Mow across the face of slopes: never up and down. Exercise extreme caution when changing direction on slopes.
- Remove obstacles such as rocks, tree limbs, etc.
- Watch for holes, ruts, bumps or hidden objects. Uneven terrain could cause a slip and fall accident. Tall grass can hide obstacles.
 DO NOT:
- Do not mow near drop-offs, ditches or embankments. You could lose your footing or balance.
- Do not mow on wet grass or excessively steep slopes. Poor footing could cause a slip and fall accident.

IV. SAFE HANDLING OF GASOLINE

To avoid personal injury or property damage, use extreme care in handling gasoline. Gasoline is extremely flammable and the vapors are explosive.

- Extinguish all cigarettes, cigars, pipes and other sources of ignition.
- Use only an approved container.
- Never remove gas cap or add fuel with the engine running.

- Allow engine to cool before refueling.
- Never refuel the machine indoors.
- Never store the machine or fuel container where there is an open flame, spark or pilot light such as a water heater or on other appliances.
- Never fill containers inside a vehicle, on a truck or trailer bed with a plastic liner. Always place containers on the ground away from your vehicle before filling.
- Remove gas-powered equipment from the truck or trailer and refuel it on the ground. If this is not possible, then refuel such equipment with a portable container, rather than from a gasoline dispenser nozzle.
- Keep the nozzle in contact with the rim of the fuel tank or container opening at all times until fueling is complete. Do not use a nozzle lock-open device.
- If fuel is spilled on clothing, change clothing immediately.
- Never overfill fuel tank. Replace gas cap and tighten securely.

V. GENERAL SERVICE

- Never run a machine inside a closed area.
- Never make adjustments or repairs with the engine (motor) running. Disconnect the spark plug wire, and keep the wire away from the plug to prevent accidental starting.
- Keep all nuts and bolts tight to be sure the equipment is in safe working condition.
- Never tamper with safety devices. Check their proper operation regularly. Never do anything to interfere with the intended function of a safety device or reduce the protection provided by a safety device.
- Keep machine free of grass, leaves, or other debris build-up. Clean oil or fuel spillage. Allow machine to cool before storing.
- Stop and inspect the equipment if you strike an object. Repair, if necessary, before restarting.
- Never attempt to make wheel height adjustments while the engine is running.
- Grass catcher components are subject to wear, damage, and deterioration, which could expose moving parts or allow objects to be thrown. Frequently check components and replace with manufacturer's recommended parts, when necessary.
- Mower blades are sharp and can cut. Wrap the blade(s) or wear gloves, and use extra caution when servicing them.
- Do not change the engine governor setting or overspeed the engine.
- Maintain or replace safety and instruction labels, as necessary.

WARRANTY

GENERAL: Craftsman products are warranted to be free from defects in materials or workmanship for a specific time period as set-out below (the "Warranty Period"). Warranties extend to the original purchaser of a Craftsman product only. Purchases made through an online auction or through any website other than www.sears.ca are excluded. The relevant Warranty Period commences on the original date of purchase. Within this period, Sears Canada, Inc. will, at its sole option, repair or replace any products or components which fail in normal use. Such repairs or replacement will be made at no charge to the customer for parts or labor, provided that the customer shall be responsible for any transportation cost.

EXCLUSIONS: This warranty does not cover failures due to normal wear, abuse, misuse, neglect (including but not limited to the use of stale fuel, dirt, abrasives, moisture, rust, corrosion, or any adverse reaction due to improper storage or use habits), improper maintenance or failure to follow maintenance guidelines and/or instructions, failure to operate the product in accordance with the owner's manual or any additional instructions or information provided at the time of purchase or in subsequent communications with the original purchaser, accident or unauthorized alterations or repairs made or attempted by others. Also excluded from warranty coverage – except as provided below - are the following: maintenance, adjustments, components subject to wear including but not limited to: cosmetic components, belts, blades, blade adapters, bulbs, tires, filters, guide bars, lubricants, seats, grips, recoil assy's, saw chains and bars, trimmer lines and spools, spark plugs, starter ropers and tines, and discoloration resulting from ultraviolet light. Any product missing the model and/or serial number identification label will be disqualified from coverage under this warranty.

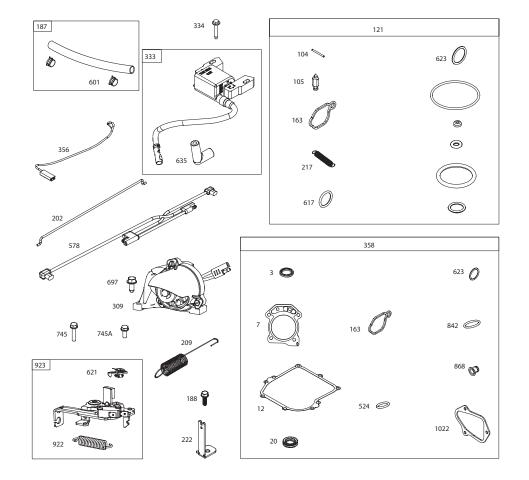
REPAIRS: Repairs have a 90 day warranty. If the defective product is still within the Warranty Period, then the new warranty is 90 days from the date of repair or to the end of the original Warranty Period, whichever period is longer.

DISCLAIMERS: THE WARRANTIES AND REMEDIES CONTAINED HEREIN ARE EXCLUSIVE AND IN LIEU OF ALL OTHER WARRANTIES, WHETHER ORAL OR WRITTEN (OTHER THAN AS STATED HEREIN), AND WHETHER EXPRESS, IMPLIED OR STATUTORY, INCLUDING BUT NOT LIMITED TO ANY. THIS WARRANTY GIVES YOU SPECIFIC LEGAL RIGHTS, WHICH MAY VARY FROM PROVINCE TO PROVINCE.

IN NO EVENT SHALL SEARS BE LIABLE FOR ANY INCIDENTAL, SPECIAL, INDIRECT OR CONSEQUENTIAL DAMAGES, WHETHER RESULTING FROM THE USE, MISUSE OR INABILITY TO USE THE PRODUCT OR FROM DEFECTS IN THE PRODUCT. THE EXCLUSIONS IN THIS PARAGRAPH SHALL NOT APPLY IN JURISDICATIONS WHERE APPLICABLE LAW DOES NOT ALLOW FOR THE EXCLUSION OF INCIDENTAL OR CONSEQUENTIAL DAMAGES. IN SUCH JURISDICTIONS, THIS PARAGRAPH SHALL NOT APPLY, BUT THE REMAINING PROVISIONS OF THIS DOCUMENT SHALL REMAIN VALID.

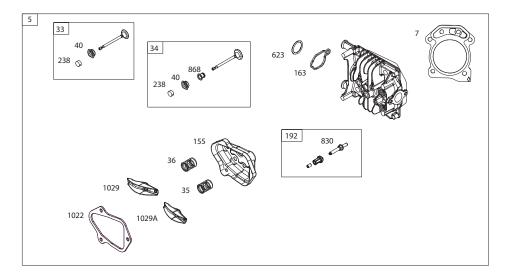
Sears retains the exclusive right to repair or replace the product or offer a full refund of the purchase price at its sole discretion. SUCH REMEDY SHALL BE YOUR SOLE AND EXCLUSIVE REMEDY FOR ANY BREACH OF WARRANTY.

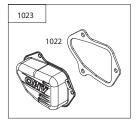
CUSTOMER RESPONSIBILITIES: In additional to complying with all suggested maintenance guidelines and instructions, customers' obligations shall include but shall not be limited to: operating the product in accordance with the owner's manual or any additional instructions or information provided at the time of purchase or in subsequent communications to the purchaser from time to time, exhibit reasonable care in the use, operation, maintenance, general upkeep and storage of the product. Failure to comply with these requirements will void any applicable warranty.



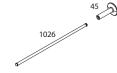
Engine Power Rating Information

The gross power rating for individual gas engine models is labeled in accordance with SAE (Society of Automotive Engineers) code J1940 (Small Engine Power & Torque Rating Procedure), and rating performance has been obtained and corrected in accordance with SAE J1995 (Revision 2002-05). Torque values are derived at 3060 RPM; horsepower values are derived at 3600 RPM. Actual gross engine power will be lower and is affected by, among other things, ambient operating conditions and engine-to-engine variability. Given both the wide array of products on which engines are placed and the variety of environmental issues applicable to operating the equipment, the gas engine will not develop the rated gross power when used in a given piece of power equipment (actual "on-site" or net power). This difference is due to a variety of factors including, but not limited to, accessories (air cleaner, exhaust, charging, cooling, carburetor, fuel pump, etc.), application limitations, ambient operating conditions (temperature, humidity, altitude), and engine-to-engine variability. Due to manufacturing and capacity limitations, Briggs & Stratton may substitute an engine of higher rated power for this Series engine.









WARRANTY

LIST OF APPLICABLE WARRANTY PERIODS: The following list contains the applicable Warranty Period for your Craftsman product and is based on a combination of the type of product or component and the intended and actual use of the product or component:

- 1. **90 DAYS:** Craftsman products intended for use or actually used for commercial, institutional, professional or income-producing purposes
- 2. **2 YEARS:** Craftsman riding lawn mowers, yard and garden tractors, walk behind mowers, tillers, brush cutters, snow blowers, handheld blowers, backpack blowers, hedge trimmers and electrical products for noncommercial, nonprofessional, non-institutional, or non-income-producing use, except for those components which are part of engine systems manufactured by third party engine manufacturers for which the purchase has received an separate warranty with product information supplied at the time of purchase.
- 3. **1 YEAR:** Craftsman power cutters, stump grinders, pole pruners, gas chain saws, electric chain saws, trimmer attachments, baggers and pole saws for noncommercial, nonprofessional, non-institutional, or non-income-producing use.
- 4. **90 DAYS:** All defective batteries, which will be replaced during this 90-day Warranty Period.
- 5. 60 DAYS: Additional Warranty Period of 60 days will apply to adjustments and worn products or components BUT DOES NOT INCLUDE WEAR OR ADJUSTMENTS for products used for commercial, institutional, professional or income-producing purposes. Wear items include but are not limited to: belts, blades, tires, spark plugs, air filters, chains, shear bolts, skid plates, scraper bars, drift cutters, ropes, tines, collection bags and pulleys.

As the Warranty Period runs from the date of purchase and NOT from the date that a product is delivered, opened, assembled or first used, plea se ensure during this time period that your product or component has been assembled and tested for correction operation regardless of when you intend to actually use it. Claims made after the Warranty Period has expired will not be honored.

PROOF OF PURCHASE/DOCUMENTATION: Warranty coverage is conditioned upon the original purchaser furnishing Sears Canada or its authorized third party service provider if applicable, with the original sales receipt or other adequate written proof of the original purchase date and identification of the product. In the event that the original purchaser is unable to provide a company of the original sales receipt, Sears Canada Inc. reserves the right to determine in its sole discretion what other written proof of the original purchase date and identification of the product is acceptable.

PRODUCT SPECIFICATIONS					
Serial Number:					
Date of Purchase:					
Gasoline Capacity / Type:	1.6 Quarts (1,51 Litres) (Unleaded Regular)				
Oil Capacity:	15,5 Ounces (0,42 Litres)				
Oil Type (API SJ–SN):	SAE 30 (above 0°C/32°F); SAE 5W-30 (below 0°C/32°F)				
Spark Plug:	Champion RC12YX (Gap: 0.020"/0,5 mm)				
Blade Bolt Torque:	35–40 ft. lbs. (47–54 Nm)				
• The model and serial numbers will be found on a decal on the rear of the lawn mower housing. Record both serial number and date of purchase in space provided above.					

ASSEMBLY / PRE-OPERATION

Read these instructions and this manual in its entirety before you attempt to assemble or operate your new lawn mower. **IMPORTANT:** This lawn mower is shipped WITHOUT OIL OR GASOLINE in the engine.

Your new lawn mower has been assembled at the factory with the exception of those parts left unassembled for shipping purposes. To ensure safe and proper operation of your lawn mower, all parts and hardware you assemble must be tightened securely. Use the correct tools as necessary to ensure proper tightness. All parts such as nuts, washers, bolts, etc., necessary to complete the assembly have been placed in the parts bag.

TO REMOVE MOWER FROM CARTON

- 1. Remove loose parts included with mower.
- 2. Cut down two end corners of carton and lay end panel down flat.
- Remove all packing materials except padding between upper and lower handle and padding holding operator presence control bar to upper handle.
- 4. Roll lawn mower out of carton and check carton thoroughly for additional loose parts.

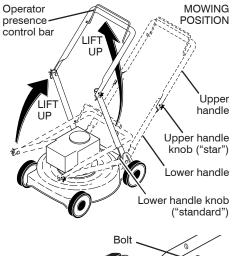
HOW TO SET UP YOUR LAWN MOWER

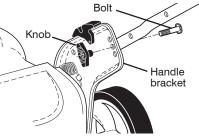
TO UNFOLD HANDLE

IMPORTANT: Unfold handle carefully so as not to pinch or damage control cables.

- Raise lower handle section to operating position and align holes in lower handle with holes in handle brackets.
- Insert handle bolts through lower handles and handle brackets; secure with lower ("standard") knobs.
- 3. Remove protective padding, raise upper handle section into place on lower handle and tighten both upper ("star") knobs.
- 4. Remove any packing material from around control bar.

Your lawn mower handle can be adjusted for your mowing comfort. Refer to "AD-JUST HANDLE" in the Service and Adjustments section of this manual.

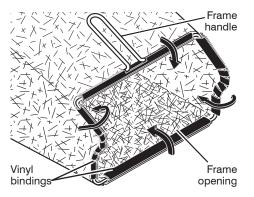




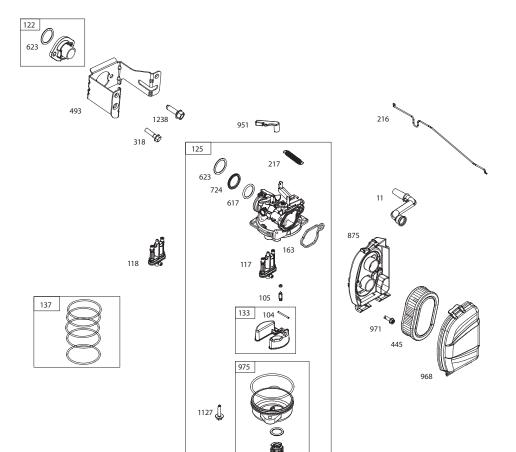
TO ASSEMBLE GRASS CATCHER

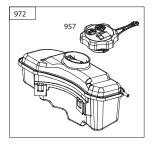
- Put grass catcher frame into grass bag with rigid part of bag on the bottom. Make sure the frame handle is outside of the bag top.
- 2. Slip vinyl bindings over frame.

NOTE: If vinyl bindings are too stiff, hold them in warm water for a few minutes. If bag gets wet, let it dry before using.









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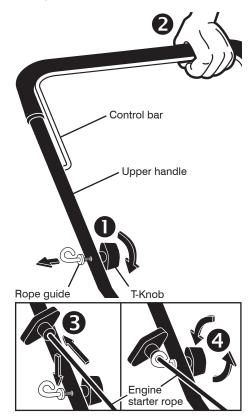
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INSTALL STARTER ROPE

- 1. Loosen T-knob.
- 2. Hold control bar against upper handle.
- 3. Slowly pull engine starter rope out until rope will slip into loop of rope guide.
- 4. Tighten T-knob.



TO PREPARE BATTERY

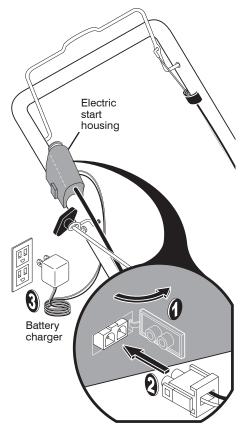
NOTE: Your battery must be charged before you can start your lawn mower. 1. Open port on electric start housing.

- 2. Connect battery charger connector (male) to battery connector (female).
- 3. Plug battery charger into 110 volt A.C. outlet.
- Leave battery charger connected for 24 hours before starting your engine for the first time.

Connect your battery charger to charge battery as required.

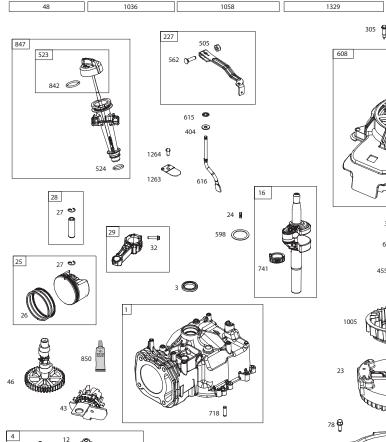
IMPORTANT: The engine will not recharge your battery.

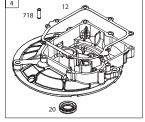
At the end of the mowing season the battery should be charged for 48 hours to protect the battery during winter storage.



TO INSTALL ATTACHMENTS

Your lawn mower was shipped ready to be used as a mulcher. To convert mower to bagging or discharging, see "TO CON-VERT MOWER" in the Operation section of this manual.

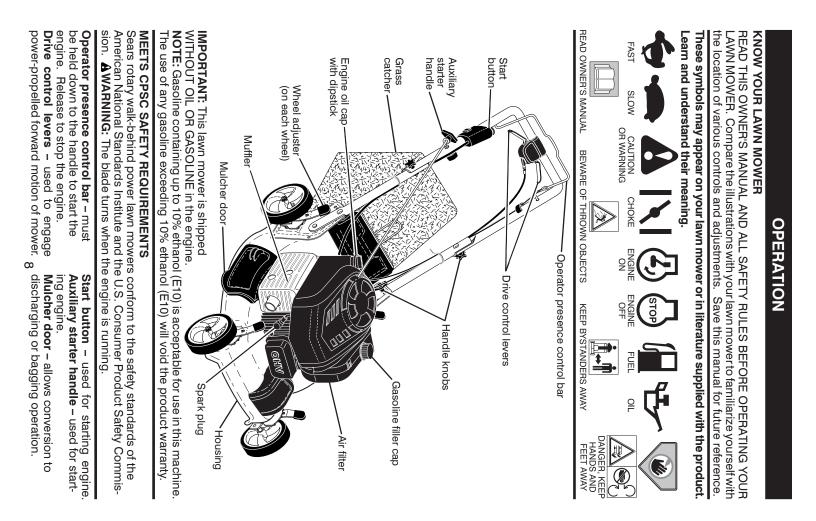






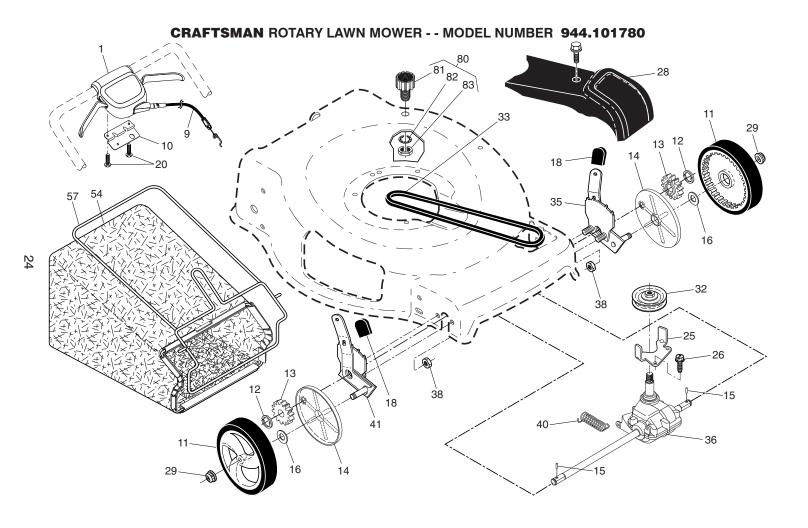
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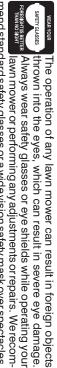
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CRAFTSMAN ROTARY LAWN MOWER - - MODEL NUMBER 944.101780

KEY NO.	PART NO.	DESCRIPTION	KEY NO.	PART NO.	DESCRIPTION
1	501407805	Drive Control Assembly	29	409148	Locknut, Hex
		(Includes Cable)	32	586989701	Drive Pulley
9	431649	Cable, Drive	33	426609	V-Belt
10	587249302	Mounting Bracket,	35	581497907	Wheel Adjuster, Front, LH
		Drive Control			(Includes Bearing)
11	194231X460	Wheel & Tire Assembly, Front	36	424741	Gear Case Assembly, Complete
12	12000058	E-Ring	38	438130	Locknut, Hex 1/4-20
13	403849	Pinion	40	406558	Spring
14	581840401	Dust Cover	41	581497908	Wheel Adjuster, Front, RH
15	404845	Pawl, Drive			(Includes Bearing)
16	67725	Washer, Flat 3/8	54	580947303	Grassbag
18	701037	Selector Knob	57	585054703	Frame, Grassbag
20	181698	Screw #8 x 5/8	80	421114	Kit, Water Washout Assembly
25	430458X004	Belt Keeper			(Includes Key Numbers 81 thru 83)
26	163409	Screw, Hi-Lo Thread #12 x 5/8	81	419735	Fitting, Water Washout
28	587997801	Drive Cover Assembly (Includes	82	415585	Washer, Lock, Internal Tooth
		Mounting Screw and Push Nut)	83	415586	Locknut, Hex, with O-Ring







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mend standard safety glasses or a wide vision safety mask over spectacles.

ENGINE SPEED HOW TO USE YOUR LAWN MOWER

optimum performance. It is not adjustable Engine speed was set at the factory for

ENGINE ZONE CONTROL

any circumstances attempt to defeat the of blade contact injury. Do not under lawn mower in order to minimize the risk an engine control to be installed on this ACAUTION: Federal regulations require urns when the engine is running. unction of the operator control. The blade

Your lawn mower is equipped with an and operate the lawn mower. operator presence control bar which behind the lawn mower handle to start requires the operator to be positioned

DRIVE CONTROL

- Self-propelling is controlled by holding control lever rearward to the handle. to the handle and pulling either drive The further toward the handle a lever is the operator presence control bar dowr
- stop forward motion without stopping a drive control lever are released. To engine, release a drive control lever the operator presence control bar or pulled, the faster the unit will travel -orward motion will stop when either

NOTE: If after releasing the drive control he mower will not roll backwards, push only. Hold operator presence control mowing without self-propelling. bar down against handle to continue

drive wheels. the mower forward slightly to disengage turning corners, push down on the To keep drive control engaged wher

Operator presence ground while turning lawn mower. handle to lift the front wheels off the control bai

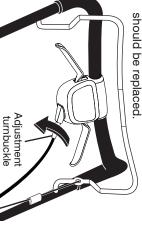
TO ENGAGE DRIVE CONTROL DRIVE CONTROI DISENGAGED Drive control levers

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DRIVE CONTROL ADJUSTMENT

control housing to increase tension on the speed. become "loose", resulting in decreased Over time, the drive control system may drive cable. Proceed as follows: There is a turnbuckle on the drive

- Ņ plug wire from spark plug. Turn unit off and disconnect spark
- Rotate turnbuckle on drive control to increase drive speed
- ω Operate mower to test drive speed
- 4 If condition fails to improve after the the same), your drive belt is worn and Readjust as required. above steps (forward speed remains



TO ADJUST CUTTING HEIGHT

for high cut, adjust cutting height to sui best for most lawns. Raise wheels for low cut and lower wheels your requirements. Medium position is

up or down to suit your requirements. To change cutting height, squeeze ad juster lever toward wheel. Move wheel

ting. NOTE: Adjuster is properly positioned Be sure all wheels are in the same set

allow lever to be positioned between the plate tabs. when plate tab inserts into hole in lever. Also, 9-position adjusters (if so equipped)

ROTATE LEVER BACKWARD TO LOWER MOWER



close. Serious damage to your mower operator presence control bar is held SIDE DISCHARGING could result. ACAUTION: Do NOT force rear door to NOTE: Rear door will remain open until ging or discharging: REAR BAGGING down to the handle. be used as a mulcher. To convert to bag-Your lawn mower was shipped ready to TO CONVERT MOWER charge deflector under door as shown. Mower is now ready for discharging Open mulcher door and install dis-Rear door must be closed. To convert to mulching or discharging Lift rear door of the lawn mower and To convert to mulching or bagging operation, discharge deflector must be operation operation, remove grass catcher and place the grass catcher frame hooks close rear door onto the grass bag brackets. trame hook Grass catcher Rear door bracket Grass bag catcher Grass handle Open latch Ņ N deflector Discharge mulcher doo Unloc

MOWER IS NOW READY FOR DISCHARGING OPERATION

CONVERTING YOUR LAWN MOWER REMEMBER WHEN SIMPLE STEPS TO

- FOR MULCHING -
- Rear door closed.
- FOR REAR BAGGING -Mulcher door closed and locked
- Grass catcher installed.
- Mulcher door closed and locked
- FOR SIDE DISCHARGING -
- Rear door closed
- Discharge deflector installed.
 ACAUTION: Do not run your lawn mow-
- grass catcher in place. Never attempt to er without rear door closed or approved removed or propped open. operate the lawn mower with the rear door

CRAFTSMAN ROTARY LAWN MOWER - - MODEL NUMBER 944.101780

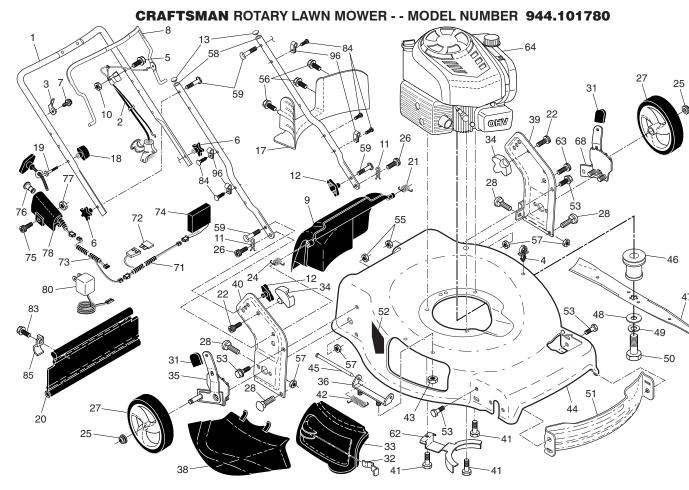
KEY NO.	PART NO.	DESCRIPTION	KEY NO.	PART NO.	DESCRIPTION	KEY NO.	PART NO.	DESCRIPTION
1	585854805	Upper Handle Assembly	32	419944X007	Latch, Mulcher Door	58	585908202	Bar, Lower Handle
2	585650802	Cable, Engine Zone Control /	33	420019	Mulcher Door	59	191574	Handle Bolt
		Rear Door Prop	34	419946X615	Bracket, Grassbag	62	431913X004	Belt Retainer
3	429930X004	Bracket, Upstop	35	431139	Wheel Adjuster, Rear, RH	63	178848	Screw #10-16 x 5/8
4	145006	Guide, Cable	36	175735	Hinge Bracket Assembly	64		Engine, Briggs & Stratton,
5	199687	Screw, Machine, Hex Head	38	419942X428	Discharge Deflector			Model Number 104M05-
		1/4-20 x 1-1/2	39	585900702	Handle Bracket, LH			0093-F1 (See Breakdown)
6	182398	Handle Knob, Star	40	585900802	Handle Bracket, RH	68	431138	Wheel Adjuster, Rear, LH
7	178848	Screw #10-16 x 5/8	41	150406	Bolt, Engine 3/8-16	71	431009	Wiring Harness, Battery
8	426432X428	Control Bar	42	193000	Spring, Torsion	72	425937	Fuse, 40 Amp
9	581747804	Rear Door Assembly	43	191730	Nut, Hex, Nylock	73	587934501	Wiring Harness
10	132004	Nut, Hex 1/4-20	44	431558	Kit, Lawn Mower Housing	74	430765	Battery
¦23 11	425575	Hairpin, Door/Handle Pivot	45	175650	Rod, Hinge	75	446694	Bolt M6 x 40
12	189713X428	Handle Knob, Standard	46	581473301	Blade Adapter / Pulley	76	580915201	Starter Button
13	437516	Plug, Lower Handle Bar	47	421825	Blade, 22"	77	446695	Nut, Hex M6
17	427120X428	Rear Baffle	48	851074	Washer, Hardened	78	587934301	Electric Start Assembly
18	581912601	T-Knob	49	850263	Washer, Helical			(Includes Switch and
19	581902101	Rope Guide	50	851084	Screw, Machine, Hex Head			Switch Housing)
20	429157	Rear Skirt			3/8-24 x 1-3/8 Grade 8	80	587007101	Charger, Battery
21	419949	Spring, Rear Door, LH, Black	51	430599	Front Baffle	83	750097	Screw, Hex Washer Head
22	141841	Screw, Panhead, Torx #20	52	404763	Decal, Danger	84	428124	Fastener, Push
24	419948	Spring, Rear Door, RH, Grey	53	17000510	Screw, Hex Head 5/16-18	85	429801X004	Mounting Bracket, Skirt
25	409148	Locknut, Hex	55	191730	Nut, Hex	96	197991	Clip, Cable
26	419945	Screw, Rear Door/Handle Pivot	56	17411312	Screw, Hex Washer Head		423849	Bag of Parts (Includes
27	400246X460	Wheel & Tire Assembly, Rear			#13 x 3/4		50000000	Key Numbers 12 and 59)
28	586212501	Bolt, Carriage 5/16-18 x 5/8	57	155377	Nut, Hex		582363801	Owner's Manual, English
31	701037	Selector Knob					582363802	Owner's Manual, French

NOTE: All component dimensions given in U.S. inches. 1 inch = 25.4 mm. IMPORTANT: Use only Original Equipment Manufacturer (O.E.M.) replacement parts. Failure to do so could be hazardous, damage your lawn mower and void your warranty.

closed and locked.

removed and mulcher door must be





TO EMPTY GRASS CATCHER

- Lift up on grass catcher using the frame handle.
- Remove grass catcher with clippings from under lawn mower handle.
 Empty clippings from bag using both
- Empty clippings from bag using both frame handle and bag handle.
 NOTE: Do not drag the bag when empty-

ing; it will cause unnecessary wear. Grass catcher frame handle

BEFORE STARTING ENGINE

Bag handle

ADD OIL Your lawnmower is shipped without oil in the engine. For type and grade of oil to use, see "ENGINE" in the Maintenance section of this manual.

A CAUTION: DO NOT overfill engine with oil, or it will smoke heavily from the muffler on startup.

- . Be sure lawnmower is level
- Remove oil dipstick from oil fill spout
 You receive a container of oil with the
- You receive a container of oil with the unit. Slowly pour the entire container down the oil fill spout into the engine.
 NOTE: Initial oil fill requires only 18 oz. due to residual oil in engine from the manufacturers 100% quality testing. When

manufacturers 100% quality testing. When changing oil you may need 20 oz. 4. Insert and tighten dipstick.

Insert and tighten dipstick.

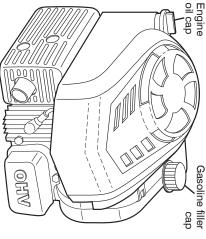
MPORTANT: Check oil level before each use. Add

- oil if needed. Fill to full line on dipstick. • Change the oil after every 25 hours of operation or each season. You may need to change the oil more often under dusty, dirty conditions. See "TO CHANGE ENGINE OIL" in the Mainte-
- ADD GASOLINE
- Fill fuel tank to bottom of tank filler neck. Do not overfill. Use fresh, clean, regular unleaded gasoline with a minimum of 87 octane. Do not mix oil with gasoline. Purchase fuel in quantities that can be used within 30 days to assure fuel freshness.

A CAUTION: Wipe off any spilled oil or fuel. Do not store, spill or use gasoline near an open flame.

▲ CAUTION: Alcohol blended fuels (called gasohol or using ethanol or methanol) can attract moisture which leads to separation and formation of acids during storage. Acidic gas can damage the fuel system of an engine while in storage. To avoid engine problems, the fuel system should be emptied before storage of 30 days or longer. Empty the gas tank, start the engine and let it run until the fuel lines and carburetor are empty. Use fresh fuel next season. See Storage Instructions for

days or longer. Empty the gas tank, start the engine and let it run until the fuel lines and carburetor are empty. Use fresh fuel next season. See Storage Instructions for additional information. Never use engine or carburetor cleaner products in the fuel tank or permanent damage may occur.



TO STOP ENGINE

lo stop engine, release operator presence control bar.

TO START ENGINE

NOTE: Due to protective coatings on the engine, a small amount of smoke may be present during the initial use of the product and should be considered normal. **NOTE:** Your engine is equipped with an automatic choke system. No priming or

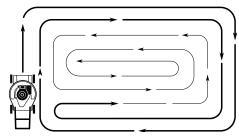
- choking is required before starting.
 Remove red starter button from the accessory bag and insert it into the starter
- Housing attached to the upper handle.
 Hold operator presence control bar down to the handle and push the start
- button. **IMPORTANT**: Do not crank engine more than five continous seconds between each time you try to start. Wait 5 to 10 seconds between each attempt.

 To start engine using the rope starter, hold operator presence control bar down to the handle and pull starter handle quickly. Do not allow starter rope to snap back.

MOWING TIPS

A CAUTION: Do not use de-thatcher blade attachments on your mower. Such attachments are hazardous, will damage your mower and could void your warranty.

- Under certain conditions, such as very tall grass, it may be necessary to raise the height of cut to reduce pushing effort and to keep from overloading the engine and leaving clumps of grass clippings. It may also be necessary to reduce ground speed and/or run the lawn mower over the area a second time.
- For extremely heavy cutting, reduce the width of cut by overlapping previously cut path and mow slowly.
- For side discharge operation, cut in a counterclockwise direction, starting at the outside of the area to be cut, in order to spread grass clippings more evenly and to put less load on the engine. To keep clippings off of walkways, flower beds, etc., make the first cuts in a clockwise direction.

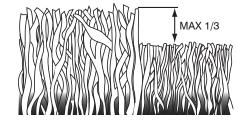


- If a trail of grass clipping is left on the right side of the lawn mower during rear discharge operation, mow in a clockwise direction with a small overlap to collect the clippings on the next pass.
- Pores in cloth grass catchers can become filled with dirt and dust with use and catchers will collect less grass. To prevent this, regularly hose catcher off with water and let dry before using.
- Keep top of engine around starter clear and clean of grass clippings and chaff. This will help engine air flow and extend engine life.

MULCHING MOWING TIPS

IMPORTANT: For best performance, keep mower housing free of built-up grass and trash. See "CLEANING" in the Maintenance section of this manual.

- The special mulching blade will recut the grass clippings many times and reduce them in size so that as they fall onto the lawn they will disperse into the grass and not be noticed. Also, the mulched grass will biodegrade quickly to provide nutrients for the lawn. Always mulch with your highest engine (blade) speed as this will provide the best recutting action of the blades.
- Avoid cutting your lawn when it is wet. Wet grass tends to form clumps and interferes with the mulching action. The best time to mow your lawn is the early afternoon. At this time the grass has dried, yet the newly cut area will not be exposed to direct sunlight.
- For best results, adjust the lawn mower cutting height so that the lawn mower cuts off only the top one-third of the grass blades. If the lawn is overgrown it will be necessary to raise the height of cut to reduce pushing effort and to keep from overloading the engine and leaving clumps of mulched grass. For extremely heavy grass, reduce your width of cut by overlapping previously cut path and mow slowly.



- Certain types of grass and grass conditions may require that an area be mulched a second time to completely hide the clippings. When doing a second cut, mow across (perpendicular) to the first cut path.
- Change your cutting pattern from week to week. Mow north to south one week then change to east to west the next week. This will help prevent matting and graining of the lawn.

TROUBLESHOOTING - See appropriate section in manual unless directed to a Sears Parts & Repair Centre.

PROBLEM	CAUSE	CORRECTION
Poor cut – uneven	 Worn, bent or loose blade. Wheel heights uneven. Buildup of grass, leaves and trash under mower. 	 Replace blade. Tighten blade bolt. Set all wheels at same height. Clean underside of mower housing.
Excessive vibration	 Worn, bent or loose blade. Bent engine crankshaft. 	 Replace blade. Tighten blade bolt. Contact a Sears or other qualified service centre.
Starter rope hard to pull	 Engine flywheel brake is on when control bar is released. Bent engine crankshaft. Blade adapter broken. Blade dragging in grass. 	 Depress control bar to upper handle before pulling starter rope. Contact a Sears or other qualified service centre. Replace blade adapter. Move lawn mower to cut grass or to hard surface.
Grass catcher not filling (If so equipped)	 Cutting height too low. Lift on blade worn off. Catcher not venting air. 	 Raise cutting height. Replace blade. Clean grass catcher.
Hard to push	 Grass is too high or wheel height is too low. Rear of lawn mower housing or cutting blade dragging in grass. Grass catcher too full. Handle height position not right for you. 	 Raise cutting height. Raise rear of lawn mower housing one (1) setting higher. Empty grass catcher. Adjust handle height to suit.
Loss of drive or slowing of drive speed	 Belt wear. Belt off of pulley. Drive cable worn or broken. "Loose" drive control system. 	 Check/replace drive belt. Check/reinstall drive belt. Replace drive cable. Adjust drive control.

TROUBLESHOOTING - See appropriate section in manual unless directed to a Sears Parts & Repair Centre.

PROBLEM	CAUSE	CORRECTION
Does not start	 Dirty air filter. Out of fuel. Stale fuel. Water in fuel. Spark plug wire is disconnected. Bad spark plug. Loose blade or broken blade adapter. Control bar in released position. Control bar defective. Fuel valve lever (if so equipped) in OFF position. Weak battery (if equipped). Disconnected battery connector (if equipped). Blown fuse (if equipped). 	 Clean/replace air filter. Fill fuel tank. Empty fuel tank and refill tank with fresh, clean gasoline. Empty fuel tank and refill tank with fresh, clean gasoline. Connect wire to plug. Replace spark plug. Tighten blade bolt or replace blade adapter. Depress control bar to handle. Replace control bar. Turn fuel valve lever to the ON position. Charge battery. Connect battery to engine.
Loss of power	 Rear of lawn mower housing or cutting blade dragging in heavy grass. Cutting too much grass. Dirty air filter. Buildup of grass, leaves, and trash under mower. Too much oil in engine. Walking speed too fast. 	 Raise cutting height. Raise cutting height. Clean/replace air filter. Clean underside of mower housing. Check oil level. Cut at slower walking speed.

MAINTENANCE

MAINTENANCE Schedule	BEFORE EACH USE	AFTER EACH USE	EVERY 10 HOURS	EVERY 25 HOURS OR SEASON	EVERY 100 HOURS	BEFORE STORAGE
Check for Loose Fasteners	V					V
Clean / Inspect Grass Catcher *	V	~				~
A Check Tires	V					
Check Drive Wheels ***	V					
Clean Lawn Mower ****		~				~
M Clean under Drive Cover ***			v			
Check Drive Belt / Pulleys ***				~		
Check / Sharpen / Replace Blade				✔3		
E Lubrication				~		
Clean and Recharge Battery **				~		✓4
Check Engine Oil level	✓5					
E Change Engine Oil				1,2,6		
Clean Air Filter				✓2		
G Inspect Muffler				~		
Replace Spark Plug					~	
Replace Air Filter Paper Cartridge					✔2	
Empty fuel system or add Stabilizer						~

 (if so equipped) ****** Electric-Start mowers

to clean under deck

section of this manual.

BEFORE EACH USE

• Check engine oil level. • Check for loose fasteners.

Keep unit well lubricated

(See "LUBRICATION CHART").

manual.

LUBRICATION

 Change more often if operating under a heavy load or in high outdoor temperatures. 2 - Service more often if operating in dirty or dusty conditions.

3 - Replace blades more often when mowing in sandy soil.

*** Power-Propelled mowers **** Use a scraper

4 - Charge 48 hours at end of season.

5 - And after each 5 hours of use.

6 - See "LUBRICATION" in the Maintenance section of this manual.

GENERAL RECOMMENDATIONS

cover items that have been subjected to

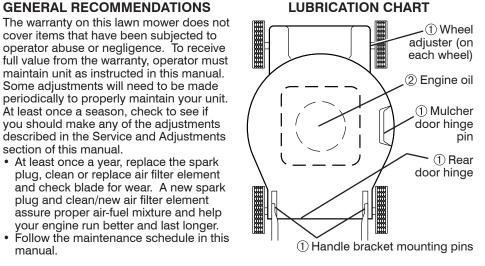
Some adjustments will need to be made

you should make any of the adjustments

• At least once a year, replace the spark plug, clean or replace air filter element

plug and clean/new air filter element assure proper air-fuel mixture and help your engine run better and last longer.

At least once a season, check to see if



(1) Spray lubricant

(2) See "ENGINE" in Maintenance section.

IMPORTANT: Do not oil or grease plastic wheel bearings. Viscous lubricants will attract dust and dirt that will shorten the life of the self-lubricating bearings. If you feel they must be lubricated, use only a dry, powdered graphite type lubricant sparingly.

20

LAWN MOWER

Always observe safety rules when performing any maintenance.

TIRES

- Keep tires free of gasoline, oil, or insect control chemicals which can harm rubber.
- Avoid stumps, stones, deep ruts, sharp objects and other hazards that may cause tire damage.

DRIVE WHEELS

Check front drive wheels each time before you mow to be sure they move freely. The wheels not turning freely means trash, grass cuttings, etc. are in the drive wheel area and must be cleaned to free drive wheels. If necessary to clean the drive wheels, be sure to clean both front wheels.

BLADE CARE

For best results, blade must be kept sharp. Replace a bent or damaged blade. **A** CAUTION: Use only a replacement blade approved by the manufacturer of your mower. Using a blade not approved by the manufacturer of your mower is hazardous, could damage your mower and void your warranty.

TO REMOVE BLADE

- 1. Disconnect spark plug wire from spark plug and place wire where it cannot come in contact with plug.
- 2. Turn lawn mower on its side. Make sure air filter and carburetor are up.
- 3. Use a wood block between blade and mower housing to prevent blade from turning when removing blade bolt.

NOTE: Protect your hands with gloves and/or wrap blade with heavy cloth.

- 4. Remove blade bolt by turning counterclockwise.
- 5. Remove blade and attaching hardware (bolt, lock washer, hardened washer).

NOTE: Remove the blade adapter and check the key inside hub of blade adapter. The key must be in good condition to work properly. Replace adapter if damaged.

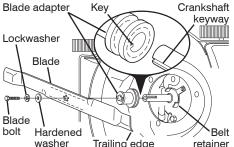
TO REPLACE BLADE

1. Position the blade adapter on the engine crankshaft. Be sure key in adapter and crankshaft keyway are aligned.

2. Position blade on the blade adapter. **IMPORTANT:** To ensure proper assembly. center hole in blade must align with star on blade adapter.

- 3. Be sure the trailing edge of blade (opposite sharp edge) is up toward the engine.
- 4. Install the blade bolt with the lock washer and hardened washer into blade adapter and crankshaft.
- 5. Use block of wood between blade and lawn mower housing and tighten the blade bolt, turning clockwise.
- The recommended tightening torgue is 35-40 ft. lbs. (47-54 Nm).

IMPORTANT: Blade bolt is heat treated. If bolt needs replacing, replace only with approved bolt shown in the Repair Parts section of this manual.



retainer Trailing edge

TO SHARPEN BLADE

NOTE: We do not recommend sharpening blade - but if you do, be sure the blade is balanced. An unbalanced blade will cause eventual damage to lawn mower or engine.

- The blade can be sharpened with a file or on a grinding wheel. Do not attempt to sharpen while on the mower.
- To check blade balance, you will need a 5/8" diameter steel bolt, pin, or a cone balancer. (When using a cone balancer, follow the instructions supplied with balancer.)

NOTE: Do not use a nail for balancing blade. The lobes of the center hole may appear to be centered, but are not.

 Slide blade on to an unthreaded portion of the steel bolt or pin and hold the bolt or pin parallel with the ground. If blade is balanced, it should remain in a horizontal position. If either end of the blade moves downward, sharpen the heavy end until the blade is balanced.

Center hole-5/8" bolt or pin Blade

- · Empty the fuel tank by starting the engine and letting it run until the fuel lines and carburetor are empty.
- Never use engine or carburetor cleaner products in the fuel tank or permanent damage may occur.
- Use fresh fuel next season.

NOTE: Fuel stabilizer is an acceptable alternative in minimizing the formation of fuel gum deposits during storage. Add stabilizer to gasoline in fuel tank or storage container. Always follow the mix ratio found on stabilizer container. Run engine at least 10 minutes after adding stabilizer to allow the stabilizer to reach the carburetor. Do not empty the gas tank and carburetor if using fuel stabilizer.

ENGINE OIL

Drain oil (with engine warm) and replace with clean engine oil. (See "ENGINE" in the Maintenance section of this manual).

CYLINDER

- 1. Remove spark plug.
- 2. Pour one ounce (29 ml) of oil through spark plug hole into cylinder.
- 3. Pull starter handle slowly a few times to distribute oil.
- 4. Replace with new spark plug.

BATTERY

Disconnect the battery from the engine connector and charge battery 48 hours.

OTHER

- · Do not store gasoline from one season to another.
- Replace your gasoline can if your can starts to rust. Rust and/or dirt in your gasoline will cause problems.
- If possible, store your unit indoors and cover it to protect it from dust and dirt.
- Cover your unit with a suitable protective cover that does not retain moisture. Do not use plastic. Plastic cannot breathe, which allows condensation to form and will cause your unit to rust.

IMPORTANT: Never cover mower while engine and exhaust areas are still warm.

ACAUTION: Never store the lawn mower with gasoline in the tank inside a building where fumes may reach an open flame or spark. Allow the engine to cool before storing in any enclosure.

ENGINE

ENGINE SPEED

Your engine speed has been factory set.

CARBURETOR

Your carburetor is not adjustable.

IMPORTANT: Never tamper with the engine governor, which is factory set for proper engine speed. Overspeeding the engine above the factory high speed setting can be dangerous. If you think the engine-governed high speed needs adjusting, contact a Sears or other qualified service center, which has proper equipment and experience to make any necessary adjustments.

STORAGE

Immediately prepare your lawn mower for storage at the end of the season or if the unit will not be used for 30 days or more.

LAWN MOWER

When lawn mower is to be stored for a period of time, clean it thoroughly, remove all dirt, grease, leaves, etc. Store in a clean, dry area.

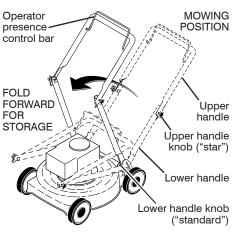
- 1. Clean entire lawn mower (See "CLEANING" in the Maintenance section of this manual).
- 2. Lubricate as shown in the Maintenance section of this manual.
- Be sure that all nuts, bolts, screws, and pins are securely fastened. Inspect moving parts for damage, breakage and wear. Replace if necessary.
- 4. Touch up all rusted or chipped paint surfaces; sand lightly before painting.

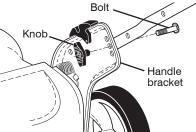
HANDLE

You can fold your lawn mower handle for storage.

- 1. Loosen the two "star" handle knobs on sides of the upper handle and allow handle to fold down to the rear.
- 2. Remove the two "standard" handle knobs and carriage bolts on sides of the lower handle and pivot entire handle assembly forward and allow it to rest on mower.
- 3. Reinstall "standard" knobs and carriage bolts to lower handle for safe keeping.
- When setting up your handle from the storage position, the lower handle will require manually locking into the mowing position.

IMPORTANT: When folding the handle for storage or transportation, be sure to fold the handle as shown or you may damage the control cables.





ENGINE FUEL SYSTEM

IMPORTANT: It is important to prevent gum deposits from forming in essential fuel system parts such as carburetor, fuel filter, fuel hose, or tank during storage. Alcohol blended fuels (called gasohol or using ethanol or methanol) can attract moisture which leads to separation and formation of acids during storage. Acidic gas can damage the fuel system of an engine while in storage.

GRASS CATCHER

- The grass catcher may be hosed with water, but must be dry when used.
- Check your grass catcher often for damage or deterioration. Through normal use it will wear. If catcher needs replacing, replace only with approved replacement catcher shown in the Repair Parts section of this manual. Give the lawn mower model number when ordering.

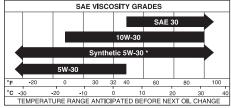
GEAR CASE

- To keep your drive system working properly, the gear case and area around the drive should be kept clean and free of trash build-up. Clean under the drive cover twice a season.
- The gear case is filled with lubricant to the proper level at the factory. The only time the lubricant needs attention is if service has been performed on the gear case.

ENGINE

LUBRICATION

Use only high quality detergent oil rated with API service classification SJ–SN. Select the oil's SAE viscosity grade according to your expected operating temperature.



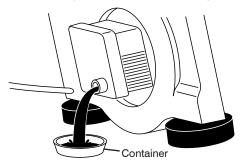
NOTE: Although multi-viscosity oils (5W30, 10W30 etc.) improve starting in cold weather, these multi-viscosity oils will result in increased oil consumption when used above 32°F. Check your engine oil level more frequently to avoid possible engine damage from running low on oil. Change the oil after every 25 hours of operation orat least once a year if the mower is not used for 25 hours in one year.

* **NOTE:** An oil change is not required but if you desire to change the oil follow the procedure below.

Check the crankcase oil level before starting the engine and after each five (5) hours of continuous use. Tighten oil plug securely each time you check the oil level. TO CHANGE ENGINE OIL

NOTE: Before tipping lawn mower to drain oil, empty fuel tank by running engine until fuel tank is empty.

- 1. Disconnect spark plug wire from spark plug and place wire where it cannot come in contact with plug.
- 2. Remove engine oil cap; lay aside on a clean surface.
- Tip lawn mower on its side as shown and drain oil into a suitable container. Rock lawn mower back and forth to remove any oil trapped inside of engine.



- 4. Wipe off any spilled oil from lawn mower or side of engine.
- Slowly pour oil down the oil fill spout, stopping every few ounces to check the oil level with the dipstick.
- 6. Stop adding oil when you reach the FULL mark on the dipstick. Wait a minute to allow oil to settle.
- 7. Continue adding small amounts of oil, rechecking the dipstick until oil level settles at FULL. DO NOT overfill, or engine will smoke heavily from the muffler on startup.
- 8. Always be sure to retighten oil dipstick before starting engine.
- 9. Reconnect spark plug wire to spark plug.

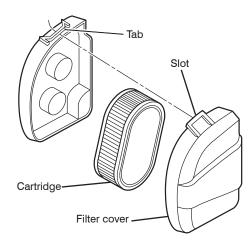
AIR FILTER

Your engine will not run properly and may be damaged by using a dirty air filter. Replace the air filter every 100 hours of operation or every season, whichever occurs first. Service air cleaner more often under dusty conditions. TO CLEAN AIR FILTER

- 1. Remove cover.
- Remove cover.
 Carefully remove cartridge.
- 2. Carefully remove cartridge
- 3. Clean by gently tapping on a flat surface. If very dirty, replace cartridge.

ACAUTION: Petroleum solvents, such as kerosene, are not to be used to clean cartridge. They may cause deterioration of the cartridge. Do not oil cartridge. Do not use pressurized air to clean or dry cartridge.

4. Install cartridge, then replace cover.



MUFFLER

Inspect and replace corroded muffler as it could create a fire hazard and/or damage.

SPARK PLUG

Replace spark plug at the beginning of each mowing season or after every 100 hours of operation, whichever occurs first. Spark plug type and gap setting are shown in the "PRODUCT SPECIFICA-TIONS" section of this manual.

CLEANING

IMPORTANT: For best performance, keep mower housing free of built-up grass and trash. Clean the underside of your mower after each use.

ACAUTION: Disconnect spark plug wire from spark plug and place wire where it cannot come in contact with plug.

- Clean the underside of your lawn mower by scraping to remove build-up of grass and trash.
- Clean engine often to keep trash from accumulating. A clogged engine runs hotter and shortens engine life.
- Keep finished surfaces and wheels free of all gasoline, oil, etc.
- With the exception of the water washout port (if equipped), we do not recommend using a garden hose to clean the outside of your lawn mower unless the electrical system, muffler, air filter and carburetor are covered to keep water out. Water in engine can result in shortened engine life.

WATER WASHOUT FEATURE

Your lawn mower is equipped with a fitting that allows quick and easy cleaning of the underside of the housing. To use this feature, proceed as follows:

1. Move lawn mower to an area of cut grass or another hard surface.

NOTE: Water, grass and other debris will drain from beneath the mower housing during the washout process.

- 2. Remove grass catcher and discharge chute assembly from lawn mower.
- 3. Close mulcher door (if equipped).
- 4. Connect a garden hose to the fitting where shown.

IMPORTANT: Be sure the garden hose is not routed under the lawn mower housing or entangled in the wheels.

5. Turn on water supply and check for leaks at the fitting.

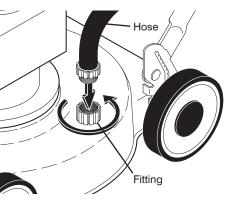
If no leaks are present, start engine (as described in the Operation section of this manual) and let engine run until the underside of the lawn mower is clean.

A WARNING: Do not engage the drive system during the washout process.

- 6. Shut off the engine.
- 7. Shut off water supply and remove hose from fitting.

CAUTION: Do not remove hose from fitting while engine is running. Water in engine can result in shortened engine life.

8. Start engine (as described in the Operation section of this manual) and let engine run for a full minute to remove excess water from mower.



CLEAN UNDER DRIVE COVER

Clean under drive cover at least twice a season. Scrape underside of cover with putty knife or similar tool to remove any build-up of trash or grass on underside of drive cover.

SERVICE AND ADJUSTMENTS

A WARNING: To avoid serious injury, before performing any service and adjustments:

- 1. Release control bar and stop engine.
- 2. Make sure the blade and all moving
- parts have completely stopped.3. Disconnect spark plug wire from spark plug and place wire where it cannot come in contact with spark plug.

LAWN MOWER

TO ADJUST CUTTING HEIGHT

See "TO ADJUST CUTTING HEIGHT" in the Operation section of this manual.

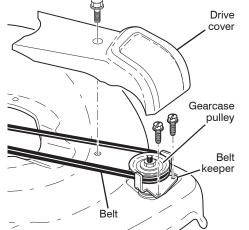
REAR DEFLECTOR

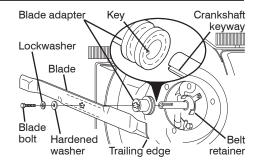
The rear deflector, attached between the rear wheels of your mower, is provided to minimize the possibility that objects will be thrown out of the rear of the mower into the operator mowing position. Replace the rear deflector if damaged.

TO REMOVE DRIVE BELT

 Remove drive cover and belt keeper.
 Remove belt from gearcase pulley.
 NOTE: Before tipping lawn mower to remove drive belt, empty fuel tank by running engine until fuel tank is empty.

- 3. Turn lawn mower on its side with air filter and carburetor up.
- 4. Remove blade and blade adapter.
- 5. Remove belt from engine pulley.





TO REPLACE DRIVE BELT

- 1. Place new drive belt on engine pulley, inside tabs of belt retainer.
- 2. Route the other end of the new drive belt through hole in housing.
- 3. Reinstall blade adapter and blade. The recommended tightening torque is 35–40 ft. lbs. (47–54 Nm).
- 4. Return mower to upright position.
- 5. Install new belt on gearcase pulley.

6. Reinstall belt keeper and drive cover. **NOTE:** Always use factory approved belt to assure proper fit and long life.

TO ADJUST HANDLE

Your handle has three (3) height positions - adjust to a height that suits you.

- 1. Remove knob and carriage bolt on one side of the lower handle.
- 2. While holding handle assembly, remove knob and carriage bolt from opposite side, align hole in handle with desired hole in handle bracket and reassemble bolt and knob and tighten securely.
- 3. Align opposite side of handle with same positioning hole and secure with bolt and knob.

