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# Owner's Manual

# **CRAFTZMAN®**

# **ROTARY LAWN MOWER**

149cc Kohler EnginePower-Propelled22" Multi-Cut

Model No. **944.362180** 



448490 Rev. 3 02.03.12 BY

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Safety Rules	ice and Adjustments
Maintenance Schedule	s ServiceBack Cove

# **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.

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

▲ 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.

A CAUTION: Muffler and other engine parts become extremely hot during operation and remain hot after engine has stopped. To avoid severe burns on contact, stay away from these areas.



#### I. 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.
- Be sure the area is clear of other people before mowing. Stop machine if anyone enters the area.
- Do not operate the mower when barefoot or wearing open sandals. Always wear substantial foot wear.

- 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 the 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.
- Stop the engine (motor) whenever you leave the equipment, before cleaning the mower or unclogging the chute.
- Shut the engine (motor) off and wait until the blade comes to complete stop before removing grass catcher.
- 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.
- Disengage the self-propelled mechanism or drive clutch on mowers so equipped before starting the engine.
- 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 safety goggles or safety glasses with side shields when operating mower.

#### II. 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.

# **SERVICE NOTES**

# **SERVICE NOTES**

#### 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, or bumps. Tall grass can hide obstacles.

#### DO NOT:

- Do not trim near drop-offs, ditches or embankments. The operator could lose footing or balance.
- · Do not trim excessively steep slopes.
- Do not mow on wet grass. Reduced footing could cause slipping.

#### III. CHILDREN

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 trimming area and under the watchful care of another responsible adult.
- 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 machine.
- Use extra care when approaching blind corners, shrubs, trees, or other objects that may obscure vision.

#### IV. SAFE HANDLING OF GASOLINE

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 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 nuts and bolts, especially blade attachment bolts, tight and keep equipment in good condition.
- Never tamper with safety devices. Check their proper operation regularly.
- 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.

**AWARNING:** This lawn mower is equipped with an internal combustion engine and should not be used on or near any unimproved forest-covered, brush-covered or grass-covered land unless the engine's exhaust system is equipped with a spark arrester meeting applicable local or state laws (if any). If a spark arrester is used, it should be maintained in effective working order by the operator.

A spark arrester for the muffler is available through your nearest Sears Service Centre (See the REPAIR PARTS section of this manual).

## **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.

#### EXHAUST CRANKCASE

EXHAUSI					CRANKCASE					
KE NO	-	PAR NO.	-	QTY.	DESCRIPTION	KE NO	-	PART NO.	QTY.	DESCRIPTION
1	14	100 (	09-s	2	Nut, Hex Flange Lock	1	25	086 159	-s 2	Screw, Hex Flange (M6)
2		314 (			Guard Assembly, Muffler	2	14	050 01-9	3 1	Kit, Breather Filter
3	14	068 (	05-s	1	Kit, Muffler Assembly (Includes Gasket)					(Includes Cover Gasket, Spring, Filter and Reed)
4	14	041 2	22-s	1	Gasket, Muffler	3	14	032 02-9	s 1	Seal, Oil
5	14	072 (	06-s	4	Stud, Carburetor (M6)	4	14	468 07-9	3 1	Washer, Flat (13mm OD)
						5	14	154 01-9	3 1	Clip, Governor Arm
						6	14	032 04-9		Seal, Oil
HE	AD	) / <b>V</b> A	LVI	E / BF	REATHER	7		010 12-9		Camshaft Assembly
			_			8		380 06-9		Dowel, Cylinder Head
(E		PAR		OT1/	DECODIDEION			067 01-9	3 1	Connecting Rod Assy.
NO	-	NO.	•	QIY.	DESCRIPTION	NO1	-	strated:		Kit Distan
1	11	017 (	01.0	1	Valve, Intake			874 02-9 108 01-9		Kit, Piston Ring Set
2		017 (			Valve, Intake Valve, Exhaust		17	100 01-8	5 I	hing Set
3		841 (			Kit, Head Gasket					
4		380 (			Dowel, Cylinder Head	FU	EL	SYSTE	м	
5		318 (			Kit, Cylinder Head	. •		0.0		
6		072 (			Stud, Carburetor (M6)	KE	Υ	PART		
7	25	086	140-	s 4	Screw, Hex Flange (M6)	NO	)_	NO.	QTY.	DESCRIPTION
3	14	089 (	02-s	2	Spring, Valve					
9	14	018 (	02-s	2	Retainer, Valve Spring	1	14	065 24-9	3 1	Tank, Fuel
10	14	072 2	22-s	2	Stud, Rocker Arm					(non-California)
		100 (			Nut, Hex Jam	2		227 11-9		Cap Assy., Fuel (EVAP)
		086			Screw, Hex Flange (M6)	3		050 14-9		Filter, Fuel, In-Nipple
		096 (			Cover, Valve	4		237 05-9		Clamp, Hose (non-CA)
		041 (			Gasket, Valve Cover	5	25	111 69-s	1	Line, Fuel, Low
		599 (			Pivot, Rocker Arm	_	4.4	000 44 4		Permeation (CKY)
		186 (			Arm, Rocker Seal, Valve Stem	6 7		853 41-9 237 07-9		Kit, Carburetor Clamp, Hose
		146 (			Plate, Pushrod Guide	1	14	23/ 0/-8	5 2	(non-California)
		411 (		2	Rod, Push	8	24	072 06-9	s 2	Stud, Carburetor (M6)
		041 2		1	Kit, Gasket, Carburetor	9		041 24-9		Kit, Gasket, Carburetor
	• •	· · · ·		•	(Includes Carburetor	-		268 04-9		Diaphragm Assembly
					Heat Shield Gasket.			086 275		Screw, Shoulder
					Spacer Gasket and Air	12	14	100 08-9	s 2	Nut, Flanged, M6 x 1.0
					Cleaner Base Gasket)	13	14	187 01-9	s 1	Arm Assy., Auto Choke
21	14	755 (	02-s	1	Kit, Valve Train (Includes	14	14	079 17-9	s 1	Linkage, Auto Choke
					Valve Stem Seals,	15	25	086 277	-s 2	Screw, Thread Forming
					Valve Springs, Push Rod					(M4)
					Guide Plates, Cylinder					
					Head Dowels					
					and Push Rods)					

22 14 112 13-s 1 Kit, Spacer, Carburetor

**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:

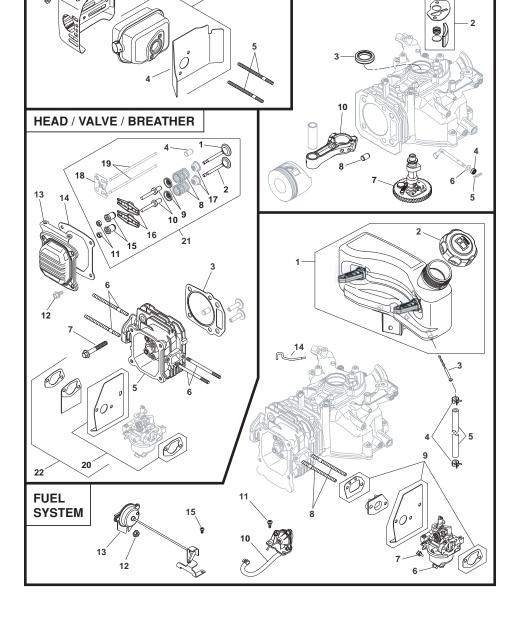
- 90 DAYS: Craftsman products intended for use or actually used for commercial, institutional, professional or income-producing purposes
- 2. 2 YEARS: Craftsman riding lawn mowers, yard and garden tractors, walk behind mowers, tillers, brush cutters, snow blowers, handheld blowers, backpack blowers, hedge trimmers and electrical products for noncommercial, nonprofessional, noninstitutional, 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.
- 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:	1,4 Litres (Unleaded Regular)				
Oil Capacity:	0,58 Litres				
Oil Type (API SG-SL):	SAE30 (above 0°C/32°F); SAE10W-30 (below 0°C/32°F)				
Spark Plug:	Champion 8815 (Gap: 0,76 mm)				
Blade Bolt Torque:	35-40 ft. lbs.				
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.					

5



**EXHAUST** 

CRANKCASE

# **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

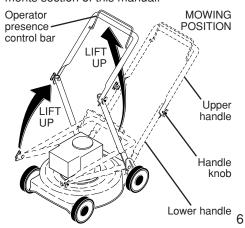
- Remove loose parts included with mower.
- 2. Cut down two end corners of carton and lay end panel down flat.
- Remove all packing materials except padding between upper and lower handle and padding holding operator presence control bar to upper handle.
- Roll lawn mower out of carton and check carton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

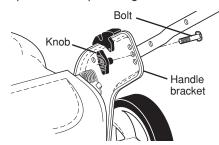
# HOW TO SET UP YOUR MOWER TO UNFOLD HANDLE

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

- Raise lower handle section to operating position and align hole in handle with one of three height positioning holes.
- 2. Insert handle bolt through handle and bracket and secure with knob.
- 3. Repeat for opposite side of handle.
- Remove protective padding, raise upper handle section into place on lower handle and tighten both handle knobs.
- 5. Remove any packing material from around control bar.

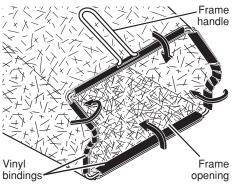
Your lawn mower handle can be adjusted for your mowing comfort. Refer to "AD-JUST HANDLE" in the Service and Adjustments section of this manual.





#### 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.



#### TO INSTALL ATTACHMENTS

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

#### **OIL PAN / LUBRICATION**

KEY PART

NO	. NO	. Q	TY.	DESCRIPTION
1 2	25 086 14 123		1	Screw, Hex Flange (M6) Dipstick / Tube Assembly (Includes Key Numbers 3 and 4)
4	14 153	03-s	1	O-Ring, Oil Fill Tube
3	14 153	05-s	1	O-Ring
5	14 199	06-s	1	Kit, Oil Pan (Includes Governor Gear Assembly & Dowel Pins)
6	14 041	06-s	1	Gasket, Oil Pan
7	25 086	159-s	1	Screw, Hex Flange (M6)
8	14 032	07-s	1	Seal, Oil
9	25 086	161-s	6	Screw, Hex Flange (M6)

#### **AIR INTAKE / FILTRATION**

**KEY PART** 

NO.

NO.

1	41	037	10-s	1	Nameplate, Service
2	14	094	13-s	1	Kit, Air Cleaner Base
					(Includes Service
					Nameplate and Air
					Cleaner Base Gasket)
3	14	123	05-s	1	Hose, Breather
4	14	096	51-s	1	Cover, Air Cleaner Base
					(Breather Gas)
5	25	086	145-s	1	Screw, Hex Flange (M6)
6	14	083	01-s	1	Element, Air Filter
7	14	096	110-s	1	Cover, Air Cleaner
8	14	100	08-s	2	Nut, Hex Flange (M6)

QTY. DESCRIPTION

#### **BLOWER HOUSING & BAFFLES**

KEY PART

KEY PART

NO.

NO.

NO		NO		QTY.	DESCRIPTION
3	14 14	100 096 027 332	27-s 03-s	1	Nut, Hex Flange (M6) Cover, Engine Housing, Blower Insert, Engine Cover

#### **IGNITION / ELECTRICAL**

1	14	112	07-s	3	Spacer, Compression Limiter
2	14	072	12-s	2	Stud, Blower Housing (Fuel Tank)
3	14	072	13-s	1	Stud, Blower Housing (Ignition)
4	14	100	10-s	1	Nut, Flywheel (with Serrations)
5	14	109	02-s	1	Cup, Starter Drive
6	14	157	01-s	1	Fan, Flywheel (Plastic)
7	14	025	05-s	1	Flywheel Assembly, Aluminum
8	14	219	11-s	1	Brake Assembly
10	14	584	02-s	1	Module, Ignition (Aluminum Flywheel)
11	25	086	145-s	1	Screw, Hex Flange (M6)
12	14	132	03-s	1	Plug, Spark

QTY. DESCRIPTION

#### **KNOW YOUR LAWN MOWER**

READ THIS OWNER'S MANUAL AND ALL SAFETY RULES BEFORE OPERATING YOUR LAWN MOWER. Compare the illustrations with your lawn mower to familiarize yourself with the location of various controls and adjustments. Save this manual for future reference.

These symbols may appear on your lawn mower or in literature supplied with the product. Learn and understand their meaning.













**FUEL** 



CAUTION OR WARNING

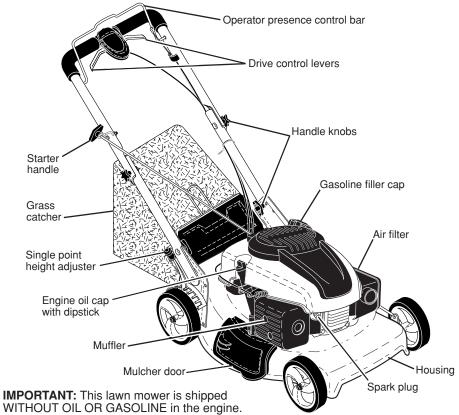
ENGINE ENGINE ON

FAST OFF

SLOW

CHOKE

DANGER, KEEP HANDS AND FEET AWAY



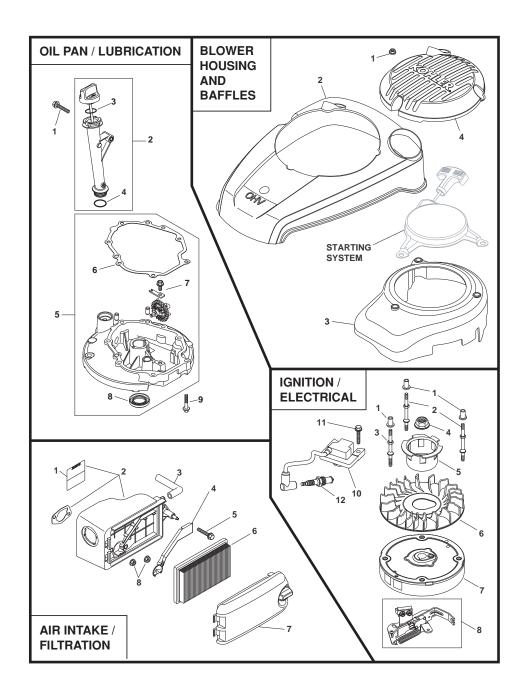
**NOTE:** Gasoline containing up to 10% ethanol (E10) is acceptable for use in this machine. The use of any gasoline exceeding 10% ethanol (E10) will void the product warranty.

#### MEETS CPSC SAFETY REQUIREMENTS

Sears rotary walk-behind power lawn mowers conform to the safety standards of the American National Standards Institute and the U.S. Consumer Product Safety Commission. **AWARNING:** The blade turns when the engine is running.

Operator presence control bar - must be held down to the handle to start the engine. Release to stop the engine. Drive control levers – used to engage power-propelled forward motion of mower. 7 discharging or bagging operation.

Starter handle - used for starting engine. Single point height adjuster - used to adjust cutting height of lawn mower. Mulcher door - allows conversion to





The operation of any lawn mower can result in foreign objects thrown into the eyes, which can result in severe eye damage. Always wear

safety glasses or eye shields while operating your lawn mower or performing any adjustments or repairs. We recommend a standard safety glasses or wide vision safety mask worn over spectacles.

# HOW TO USE YOUR LAWN MOWER ENGINE SPEED

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

#### **ENGINE ZONE CONTROL**

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

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

#### **DRIVE CONTROL**

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

**NOTE:** If after releasing the drive control the mower will not roll backwards, push the mower forward slightly to disengage drive wheels.

Operator presence control bar

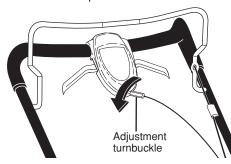


TO ENGAGE DRIVE CONTROL DRIVE CONTROL DISENGAGED

#### **DRIVE CONTROL ADJUSTMENT**

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

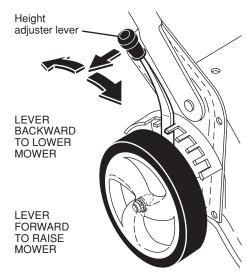
- Turn unit off and disconnect spark plug wire from spark plug.
- 2. Rotate turnbuckle on drive control to increase drive speed.
- 3. Operate mower to test drive speed. Readjust as required.
- If condition fails to improve after the above steps (forward speed remains the same), your drive belt is worn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



#### TO ADJUST CUTTING HEIGHT

All four wheels are adjusted by a single lever.

 Pull adjuster lever toward wheel. To raise mower, move lever forward to desired position. To lower mower, move the lever toward the rear.



#### **CRANKSHAFT**

KEY	PART		
NO.	NO.	QTY.	<b>DESCRIPTION</b>

1	14 014 123-s 1	Crankshaft Assembly
2	14 340 01-s 1	Key, Woodruff
3	17 030 12-s 1	Bearing, Ball

#### **DECALS**

#### KEY PART NO. NO. QTY. DESCRIPTION

1	14 450 03-s	1	Tag, Hang, Oil Warnin
2	14 113 57-s	1	Decal, Warning
3	41 037 10-9	1	Namenlate Service

#### **ENGINE CONTROLS**

NO

KEY PART

NO

25

NO	. 140.	GII.	DESCRIPTION
1	14 079 20-s	1	Linkage, Governor (Auto Choke)
2	14 100 08-s	1	Nut, Hex Flange (M6)
3	14 126 22-s	1	Control Assembly,
			Fixed Speed
4	14 089 14-s	1	Spring, Extension
			(Governor)
5	25 086 166-	s 1	Screw, Retangle Head
			(M6)
6	1/ 000 12-0	1	Lever Governor

OTY DESCRIPTION

Spring, Linkage

#### STARTING SYSTEM

14 089 43-s 1

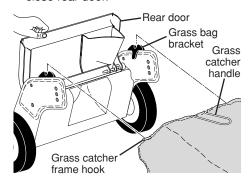
KEY	PART		
NO.	NO.	QTY.	DESCRIPTION

1	14 098 04-s	1	Starter, Recoil
2	14 100 08-s	3	Nut, Hex Flange (M6)

Your lawn mower was shipped ready to be used as a mulcher. To convert to bagging or discharging:

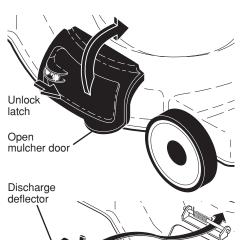
## REAR BAGGING

- Lift rear door of the lawn mower and place the grass catcher frame hooks onto the grass bag brackets.
- To convert to mulching or discharging operation, remove grass catcher and close rear door.





- · Rear door must be closed.
- Open mulcher door and install discharge deflector under door as shown.
- Mower is now ready for discharging operation.
- To convert to mulching or bagging operation, discharge deflector must be removed and mulcher door must be closed and locked.





#### SIMPLE STEPS TO REMEMBER WHEN CONVERTING YOUR LAWN MOWER

FOR MULCHING -

- 1. Rear door closed.
- 2. Mulcher door closed and locked. FOR REAR BAGGING -
- 1. Grass catcher installed.
- 2. Mulcher door closed and locked.

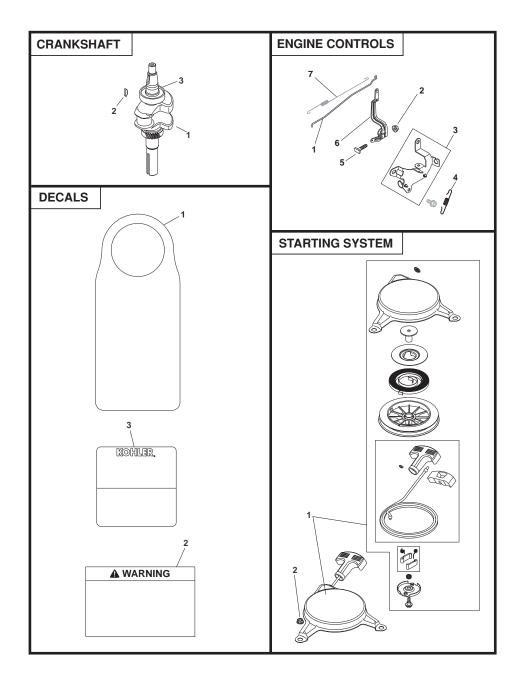
FOR SIDE DISCHARGING -

1. Rear door closed.

9

2. Discharge deflector installed.

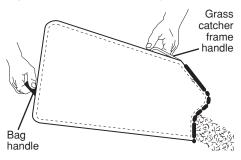
**ACAUTION:** Do not run your lawn mower without rear door closed or approved grass catcher in place. Never attempt to operate the lawn mower with the rear door removed or propped open.



Empty the grass catcher when clippings are visible in the full bag indicator window.

- 1. Lift up on grass catcher using the frame handle.
- 2. Remove grass catcher with clippings from under lawn mower handle.
- 3. Empty clippings from bag using both frame handle and bag handle.

**NOTE**: Do not drag the bag when emptying; it will cause unnecessary wear.



# BEFORE STARTING ENGINE 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.

- 1. Be sure lawnmower is level.
- 2. Remove oil dipstick from oil fill spout.
- 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 changing oil you may need 20 oz.

4. Insert and tighten dipstick.

# IMPORTANT:

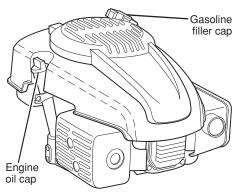
- Check oil level before each use. Add oil if needed. Fill to full line on dipstick.
- Change the oil after every 25 hours of operation or each season. You may need to change the oil more often under dusty, dirty conditions. See "TO CHANGE ENGINE OIL" in the Maintenance section of this manual.

#### 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.

▲ 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 additional information. Never use engine or carburetor cleaner products in the fuel tank or permanent damage may occur.



# TO STOP ENGINE

To stop engine, release operator presence control bar.

#### TO START ENGINE

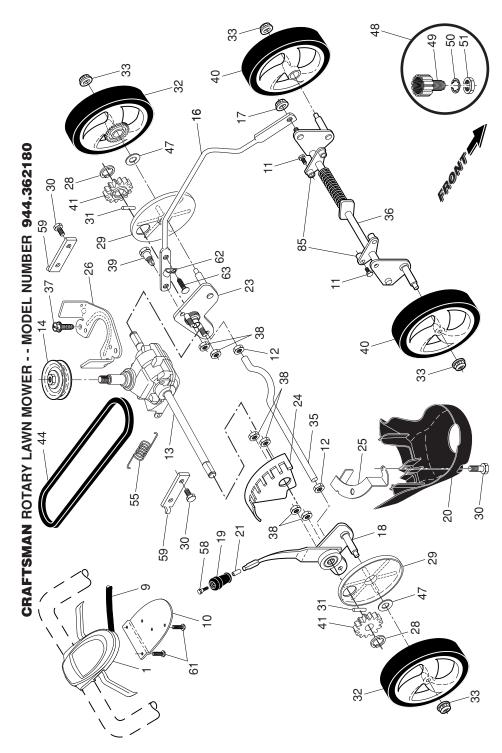
**NOTE:** Due to protective coatings on the engine, a small amount of smoke may be present during the initial use of the product and should be considered normal.

**NOTE:** Your engine is equipped with an automatic choke system. No priming or choking is required before starting.

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

# 944.362180 **CRAFTSMAN** ROTARY LAWN MOWER - - MODEL NUMBER

DESCRIPTION	Pawl, Drive	Wheel & Tire Assembly, Rear	Nut, Flangelock 3/8-16	Axle, Rear	Axle, Front	Screw, Hi-Lo Thread	Nut, Hex	Bolt	Wheel & Tire Assembly, Front	Pinion	Belt, Drive	Washer, Flat	Kit, Water Washout Assembly	Fitting, Water Washout	Washer, Lock, Internal Tooth	Locknut Hex. with O-Ring	Spring Tension	Bolt Shoulder		Support Bracket	Screw	Clip, Cable	Fastener, Push	Support Bracket, Front Axle
PART NO.	404845	405745X460	409148	430598	441833X004	163409	191730	407059	400246X460	404835	421527	67725	421114	419735	415585	415586	406558	435241	100241	441/00/004	181698	197991	428124	439077
KE NO.	31	35	33	35	36	37	38	33	40	4	44	47	48	49	20	21	7.	ά	0 0		61	62	63	82
DESCRIPTION	Drive Control Assembly	(Includes Cable)	Cable, Drive	Mouinting Bracket, Drive Control	Screw	Nut, Hex	Gear Case Assembly, Complete	Pulley. Drive	Rod. Connecting	Nut. Hex	Kit. Selector Assembly	Selector Knob	Dehris Shield	A Sobject	Alicilor	Wheel Axle Assembly, LH	Bracket, Height Adjustment	Mounting Bracket, Debris Shield	Belt Keeper	E-Bing 7/16	Cover Dust Wheel	Sozon, How Hood E46 40	ocrew, nex nead 3/10-16	
PART NO.	430994		431650	429544X479	17411312	73940800	434564	194128	428782X428	751153	436445	430697X615	427023	425040	450242	432432	433511	421515X004	421516X004	12000058	189403	170001	010000/1	
KE NO.	-		6	9	Ξ	12	5	4	16	17	. &	6	2 6	2 6	- 0	23	24	25	56	80	000	3 6	20	



#### **MOWING TIPS**

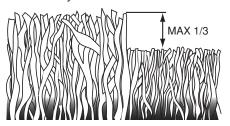
**A CAUTION:** Do not use de-thatcher blade attachments on your mower. Such attachments are hazardous, will damage your mower and could void your warranty.

- 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 better grass bagging and most cutting conditions, the engine speed should be set in the FAST position.
- 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.

# **MAINTENANCE**

	MAINTENANCE SCHEDULE	BEFORE EACH USE	AFTER EACH USE	EVERY 10 HOURS	EVERY 25 HOURS OR SEASON	EVERY 100 HOURS	BEFORE STORAGE
Г.	Check for Loose Fasteners	<b>V</b>					<b>/</b>
ľ	Clean / Inspect Grass Catcher *	<b>V</b>	<b>/</b>				<b>/</b>
I.	Check Tires	<b>/</b>					
Ϊ́	Check Drive Wheels ***	<b>V</b>					
Ι	Clean Lawn Mower ****		<b>V</b>				<b>/</b>
М	Clean under Drive Cover ***			<b>V</b>			
0	Check Drive Belt / Pulleys ***				<b>/</b>		
ΙΨ	Check / Sharpen / Replace Blade				<b>√</b> 3		
E	Lubrication				<b>/</b>		
l.,	Clean and Recharge Battery **				<b>/</b>		<b>1</b> 4
Г	Check Engine Oil level	<b>1</b> 5					
E	Change Engine Oil				<b>√</b> 1,2		
ĬŇ	Clean Air Filter				<b>V</b> 2		
Ģ	Inspect Muffler				V		
Ь	Replace Spark Plug					<b>V</b>	
ΙË	Replace Air Filter Paper Cartridge					<b>V</b> 2	
	Empty fuel system or add Stabilizer						<b>V</b>

- \* (if so equipped)
- \*\* Electric-Start mowers
- \*\*\* Power-Propelled mowers
- \*\*\*\* Use a scraper to clean under deck
- 1 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 moving in sandy soil.
- Replace blades more often when mowing in
- 4 Charge 48 hours at end of season.
- 5 And after each 5 hours of use.

#### **GENERAL RECOMMENDATIONS**

The warranty on this lawn mower does not cover items that have been subjected to operator abuse or negligence. To receive full value from the warranty, operator must maintain unit as instructed in this manual. Some adjustments will need to be made periodically to properly maintain your unit. At least once a season, check to see if you should make any of the adjustments described in the Service and Adjustments section of this manual.

- At least once a year, replace the spark plug, clean or replace air filter element and check blade for wear. A new spark plug and clean/new air filter element assure proper air-fuel mixture and help your engine run better and last longer.
- Follow the maintenance schedule in this manual.

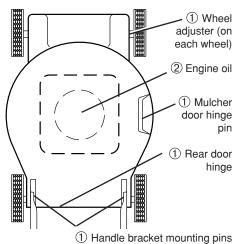
#### **BEFORE EACH USE**

- · Check engine oil level.
- Check for loose fasteners.

#### LUBRICATION

Keep unit well lubricated (See "LUBRICATION CHART").

## **LUBRICATION CHART**



- 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.

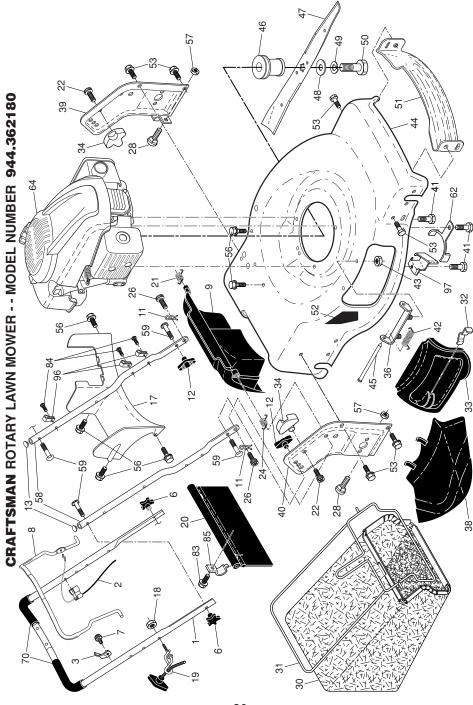
# 944.362180 **CRAFTSMAN** ROTARY LAWN MOWER --- MODEL NUMBER

KE NO.	PART NO.	DESCRIPTION	KEY NO.	PART NO.	DESCRIPTION	KE NO.	PART NO.	DESCRIPTION
-	184576	Upper Handle Assembly	30	439332	Grassbag	51	430599	Front Baffle
		(Includes Foam Grip)	31	446432	Frame, Grass Catcher	52	404763	Decal, Danger
2	437881	Cable, Engine Zone Control	32	419944X007	19944X007 Latch, Mulcher Door	53	17000510	Screw
က	429930X004		33	420019	Mulcher Door	99	17411312	Screw, Hex Washer Hea
9	182398	Handle Knob, Star	34	419946X615	Bracket, Grassbag			#13 × 3/4
7	178848	Screw #10-16 x 5/8	36	175735	Hinge Bracket Assembly	22	155377	Nut, Hex
∞	426432X428		38	419942X428	Discharge Deflector	28	437517X479	Bar, Lower Handle
6	430653	Rear Door Assembly	39	442470X479	142470X479 Handle Bracket, LH	29	191574	Handle Bolt
=	425575	Hairpin, Door/Handle Pivot	40	438526X479	38526X479 Handle Bracket, RH	62	431913X004	Belt Retainer
2 12	442571X428	Handle Knob, Standard	41	150406	Screw, Dogpoint 3/8-16 x 1-1/8	64		Engine, Kohler,
<u>ဗ</u> 1	437516	Plug, Handle Bar	42	193000	Spring, Torsion			Model Number XT149-
17	431238	Rear Baffle	43	191730	Nut, Hex, Nylock			0311 (See Breakdown)
18	132004	Keps Locknut 1/4-20	44	431946	Kit, Lawn Mower Housing	70	182748	Grip, Foam
19	194788	Rope Guide	45	175650	Rod, Hinge	83	750097	Screw
20	444501	Rear Skirt	46	421782	Blade Adapter / Pulley	84	428124	Fastener, Push
21	419949	Spring, Rear Door, LH, Black	47	421825	Blade, 22"	85	429801X004	Mounting Bracket, Skirt
22	141841	Screw, Panhead, Torx #20	48	851074	Washer, Hardened	96	197991	Clip, Cable
24	419948	Spring, Rear Door, RH, Grey	49	850263	Washer, Helical	97	431881X004 Bracket	Bracket
26	419945	Screw, Rear Door/Handle Pivot	20	851084	Screw, Machine, Hex Head	1	448490	Owner's Manual, English
28	72250505	Bolt, Carriage 5/16-18 x 5/8			3/8-24 x 1-3/8 Grade 8	;	448491	Owner's Manual, French

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## **REPAIR PARTS**



#### **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 rear 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 rear wheels.

#### **BLADE CARE**

For best results, mower 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

- 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.
- 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.

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

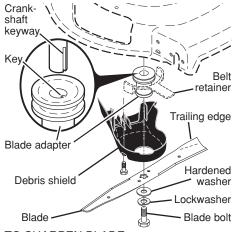
**NOTE**: Remove the blade adapter and check the key inside hub of blade adapter. The key must be in good condition to work properly. Replace adapter if damaged.

#### TO REPLACE BLADE

- Position blade adapter on engine crankshaft. Be sure key in adapter and crankshaft keyway are aligned; and that drive belt is inside tabs of belt retainer.
- 2. Install debris shield.
- 3. Position blade on the blade adapter. **IMPORTANT:** To ensure proper assembly, center hole in blade must align with star on blade adapter.
- 4. Be sure the trailing edge of blade (opposite sharp edge) is up toward engine.

- Install the blade bolt with the lock washer and hardened washer into blade adapter and crankshaft.
- 6. Use block of wood between blade and lawn mower housing and tighten the blade bolt, turning clockwise.
- The recommended tightening torque is 35–40 ft. lbs.

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



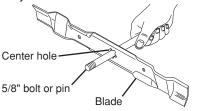
#### TO SHARPEN BLADE

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



#### **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.

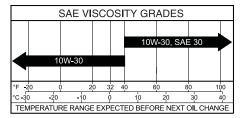
#### **GEAR CASE**

- 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.
- If lubricant is required, use only Texaco Starplex Premium 1 Grease, Part No. 750369. Do not substitute.

# **ENGINE**

#### **LUBRICATION**

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



Change the oil after every 25 hours of operation or at least once a year if the lawn mower is not used for 25 hours in one year.

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.

- 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.



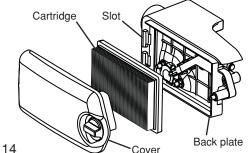
- 4. Wipe off any spilled oil from lawn mower or side of engine.
- Slowly pour oil down the oil fill spout, stopping every few ounces to check the oil level with the dipstick.
- Stop adding oil when you reach the FULL mark on the dipstick. Wait a minute to allow oil to settle.
- Continue adding small 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.
- 2. Carefully remove cartridge.
- 3. Clean by gently tapping on a flat surface. If very dirty, replace cartridge.



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

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

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Cover

## 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.

- 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.

#### **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.

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

PROBLEM	CAUSE	CORRECTION
Does not start	<ol> <li>Dirty air filter.</li> <li>Out of fuel.</li> <li>Stale fuel.</li> <li>Water in fuel.</li> <li>Spark plug disconnected.</li> <li>Bad spark plug.</li> <li>Loose blade or broken blade adapter.</li> <li>Control bar in released position.</li> <li>Control bar defective.</li> <li>Fuel valve lever (if so equipped) in OFF position.</li> <li>Weak battery (if equipped).</li> <li>Disconnected battery connector (if equipped).</li> <li>Blown fuse (if equipped).</li> </ol>	<ol> <li>Clean/replace air filter.</li> <li>Fill fuel tank.</li> <li>Empty fuel tank and refill tank with fresh, clean gasoline.</li> <li>Empty fuel tank and refill tank with fresh, clean gasoline.</li> <li>Connect wire to plug.</li> <li>Replace spark plug.</li> <li>Tighten blade bolt or replace blade adapter.</li> <li>Depress control bar to handle.</li> <li>Replace control bar.</li> <li>Turn fuel valve lever to the ON position.</li> <li>Charge battery.</li> <li>Connect battery to engine.</li> </ol>

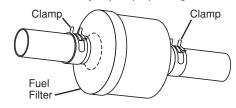
**ACAUTION:** Petroleum solvents, such as kerosene, are not to be used to clean cartridge. They may cause deterioration of the cartridge. Do not oil cartridge. Do not use pressurized air to clean or dry cartridge.

4. Install cartridge, then replace cover.

#### **IN-LINE FUEL FILTER**

The fuel filter should be replaced once each season. If fuel filter becomes clogged, obstructing fuel flow to carburetor, replacement is required.

- 1. With engine cool, remove filter and plug fuel line sections.
- Place new fuel filter in position in fuel line with arrow pointing towards carburetor.
- Be sure there are no fuel line leaks and clamps are properly positioned.
- 4. Immediately wipe up spilled gasoline.



#### **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 SPECIFICATIONS" section of this manual.

#### **CLEANING**

**IMPORTANT:** For best performance, keep mower housing free of built-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.
- We do not recommend using a garden hose to clean 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.

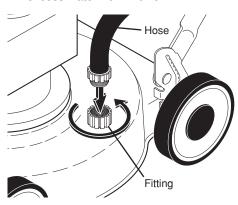
If no leaks are present, start engine (as described in the Operation section of this manual) and let engine run until the underside of the lawn mower is clean.

**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.

 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**

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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 plug.

#### **LAWN MOWER**

#### TO ADJUST CUTTING HEIGHT

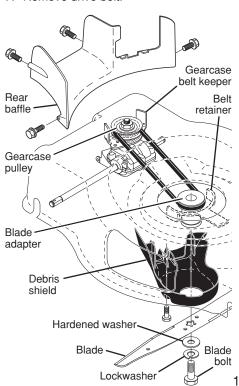
See "TO ADJUST CUTTING HEIGHT" in the Operation section of this manual.

#### **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. If the deflector becomes damaged, it should be replaced.

#### TO REMOVE DRIVE BELT

- 1. Remove screws securing rear baffle.
- 2. Turn lawn mower on its side with air filter and carburetor down.
- 3. Remove rear baffle from mower.
- Remove blade bolt, lockwasher, hardened washer and blade.
- 5. Remove debris shield.
- 6. Remove gearcase belt keeper.
- 7. Remove drive belt.



#### TO REPLACE DRIVE BELT

 Place new drive belt on gearcase pulley.

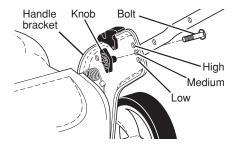
**NOTE:** Always use factory approved belt to assure proper fit and long life.

- Reinstall gearcase belt keeper. Be sure the new drive belt is inside the tabs of the gearcase belt keeper.
- Position the blade adapter on the engine crankshaft. Be sure key in adapter and crankshaft keyway are aligned; and that the drive belt is inside the tabs of the belt retainer.
- 4. Place rear baffle in mower housing.
- 5. Reinstall debris shield.
- Reinstall blade.
- 7. Return mower to upright position.
- 8. Reinstall rear baffle screws.

#### 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.
- 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.



#### **ENGINE**

#### **ENGINE SPEED**

Your engine speed has been factory set. Do not attempt to increase engine speed or it may result in personal injury. If you believe that engine is running too fast or too slow, take your mower to a Sears or other qualified service center for repair and adjustment.

#### **CARBURETOR**

Your carburetor is not adjustable. If your engine does not operate properly due

to suspected carburetor problems, take your lawn mower to a Sears or other qualified service center for repair and/or adjustment.

**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.

- Clean entire lawn mower (See "CLEANING" in the Maintenance section of this manual).
- 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 handle for storage.

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

