



# A173K22 (96146500)

## **Owner's Manual**

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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.

**AWARNING:** Engine exhaust, some of its constituents, and certain vehicle components contain or emit chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.

**AWARNING:** Battery posts, terminals and related accessories contain lead and lead compounds, chemicals known to the State of California to cause cancer and birth defects or other reproductive harm. **Wash hands after handling.** 

▲ 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.

#### 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 the 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 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 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. In the state of California the above is required by law (Section 4442 of the California Public Resources Code). Other states may have similar laws. Federal laws apply on federal lands.

Serial Number:	
Date of Purchase:	
Gasoline Capacity / Type:	1.5 Quarts (Unleaded Regular)
Oil Capacity:	20 Ounces
Oil Type (API SG-SL):	SAE 30 (above 32°F); SAE 10W-30 (below 32°F)
Spark Plug:	Champion RC12YC (Gap: .030")
Blade Bolt Torque:	35–40 ft. lbs.

## **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

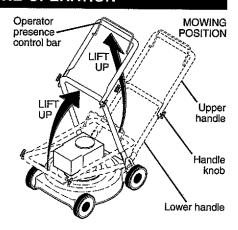
- Remove loose parts included with mower,
- Cut down two end corners of carton and lay end panel down flat.
- Remove all packing materials except padding between upper and lower handle and padding holding operator presence control bar to upper handle.
- Roll lawn mower out of carton and check carton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

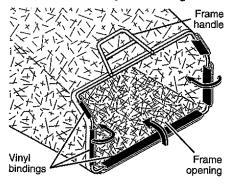
- Raise handles until lower handle section locks into place in mowing position.
- Remove protective padding, raise upper handle section into place on lower handle and tighten both handle knobs.
- Remove handle padding holding operator presence control bar to upper handle.

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.

## **OPERATION**

#### 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.



OR WARNING



ON



OFF





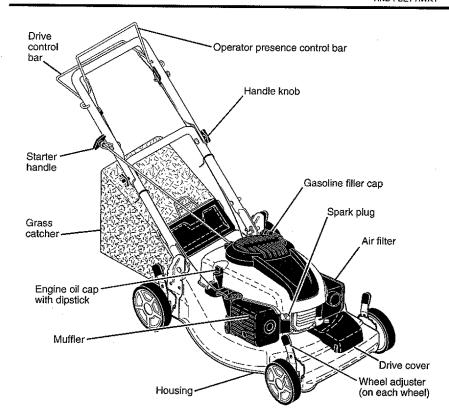
SLOW







DANGER, KEEP HANDS AND FEET AWAY



IMPORTANT: This lawn mower is shipped WITHOUT OIL OR GASOLINE in the engine.

### MEETS CPSC SAFETY REQUIREMENTS

Our 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. Starter handle – used for starting engine. Drive control bar – used to engage power-propelled forward motion of mower.

Ç



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

The engine speed was set at the factory for optimum performance. Speed is not adjustable.

#### **ENGINE ZONE CONTROL**

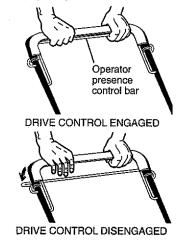
**ACAUTION:** Federal regulations require an engine control to be installed on this lawn mower in order to minimize the risk of blade contact injury. Do not under any circumstances attempt to defeat the function of the operator control. The blade turns when the engine is running.

 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.

#### TO OPERATE DRIVE SYSTEM

- To start forward motion, lift drive control bar up to handle.
- To stop forward motion, release drive control bar.

IMPORTANT: Always keep drive control fully engaged against handle when in use.

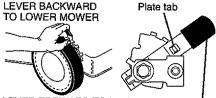


#### TO ADJUST CUTTING HEIGHT

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

To change cutting height, squeeze adjuster lever toward wheel. Move wheel up or down to suit your requirements. Be sure all wheels are in the same setting.

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

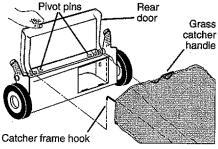


LEVER FORWARD TO RAISE MOWER Level

#### TO ATTACH GRASS CATCHER

- Lift the rear door of the lawn mower and place the grass catcher frame side hooks onto the door pivot pins.
- The grass catcher is secured to the lawn mower housing when the rear door is lowered onto the grass catcher frame

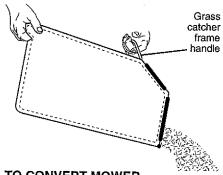
**ACAUTION:** Do not run your lawn mower without mulcher plate or plug, clipping deflector or approved grass catcher in place. Never attempt to operate the lawn mower with the rear door removed or propped open.



#### TO EMPTY GRASS CATCHER

- 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.

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

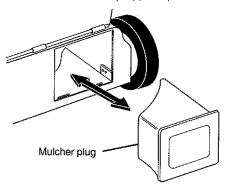


#### TO CONVERT MOWER

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

- Open rear door and remove mulcher plug. Store mulcher plug in a safe place.
- You can now install grass catcher or optional clipping deflector.
- To convert to mulching operation, install mulcher plug into rear discharge opening of mower.

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



## 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.

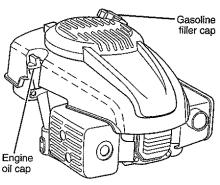
- Be sure lawnmower is level.
- 2. Remove oil dipstick from oil fill spout.
- 3. You receive a container of oil with the unit. Slowly pour the entire container down the oil fill spout into the engine.

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.

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

A 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.

#### MOWING TIPS

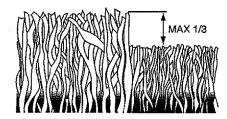
**♠ CAUTION:** Do not use de-thatcher blade attachments on your mower. Such attachments are hazardous, will damage your mower and could void your warranty.

- 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
Γ.	Check for Loose Fasteners	~					V
L	Clean / Inspect Grass Catcher *	V	1				V
lŵ	Check Tires	~					
N	Check Drive Wheels ***	<b>V</b>					
1	Clean Lawn Mower ****	***************************************	V				7
M	Clean under Drive Cover ***			V			<u>_</u>
0	Check Drive Belt / Putteys ***			-	V		
E	Check / Sharpen / Replace Blade				<b>V</b> 3		*************
Ē	Lubrication			•	~		
Ľ	Clean and Recharge Battery **				~		Va
Г	Check Engine Oil level	<b>V</b> 5			-		
E	Change Engine Oil				<b>1</b> 1,2		
Ň	Clean Air Filter				1/2		
G	Inspect Muffler			*	7		•
Ň	Replace Spark Plug				-	~	
E	Replace Air Filter Paper Cartridge					V2	
	Empty fuel system or add Stabilizer				***************************************		

- \* (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.
- 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.

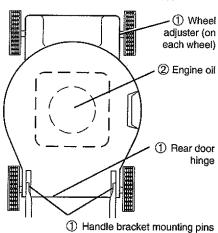
#### BEFORE EACH USE

- 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.

#### 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.

- 1. Remove hubcaps, locknuts & washers.
- 2. Remove wheels from wheel adjusters.
- Remove any trash or grass cuttings from inside the dust cover, pinion and/ or drive wheel gear teeth.
- Put wheels back in place.

NOTE: If after cleaning, the drive wheels do not turn freely, contact a qualified service center.

#### **BLADE CARE**

For best results, blade must be kept sharp. Replace a bent or damaged blade.

**ACAUTION:** 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.
- 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.

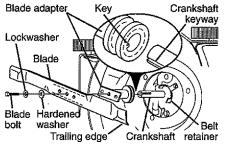
- Remove blade bolt by turning counterclockwise.
- Remove blade & attaching hardware (bolt, lock washer & hardened washer).

#### TO REPLACE BLADE

- Position blade on the blade adapter aligning the two (2) holes in the blade with the raised lugs on the adapter.
- 2. Be sure the trailing edge of blade (opposite sharp edge) is up toward the engine.
- Install the blade bolt with the lock washer and hardened washer into blade adapter and crankshaft.

 Use block of wood between blade and lawn mower housing and tighten the blade bolt, turning clockwise.

Recommendedtighteningtorque:35-40ft.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 the blade - but if you do, be sure the blade is balanced. Care should be taken to keep the blade 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, drive a nail into a beam or wall. Leave about one inch of the straight nail exposed. Place center hole of blade over the head of the nail. 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**

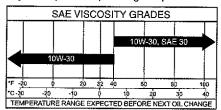
- To keep your drive system working properly, the gear case and area around the drive should be kept clean and free of trash build-up. Clean under the drive cover twice a season.
- The gear case is filled with lubricant to the proper level at the factory. The only time the lubricant needs attention is if service has been performed on the gear case.
- If lubricant is required, use only Texaco Starplex Premium 1 Grease, Part No.

11 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.



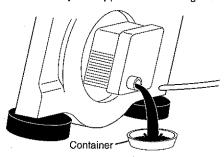
Change the oil after every 25 hours of operation or at least once a year if the lawn mower is not used for 25 hours in one year.

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.
- 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.
- Always be sure to retighten oil dipstick before starting engine.
- 9. Reconnect spark plug wire to plug.

#### AIR FILTER

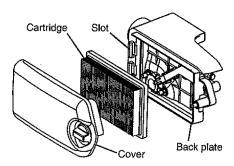
Your engine will not run properly and may be damaged by using a dirty air filter. Replace the air filter every 100 hours of operation or every season, whichever occurs first. Service air cleaner more often under dusty conditions.

#### TO CLEAN AIR FILTER

- Remove cover.
- Carefully remove cartridge.
- 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.

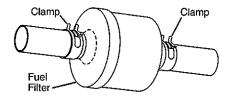
4. Install cartridge, then replace cover.



#### 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.
- Immediately wipe up any 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 SPECIFIC-ATIONS" 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.

#### **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

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

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

#### LAWN MOWER

#### TO ADJUST CUTTING HEIGHT

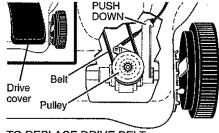
See "TO ADJUST CUTTING HEIGHT" in the Operation section of this manual.

#### 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

- Remove drive cover.
- Remove belt from gearcase pulley by pushing down on arm and rolling belt off pulley.
- Turn lawn mower on its side with air filter and carburetor down.
- Remove blade and blade adapter.

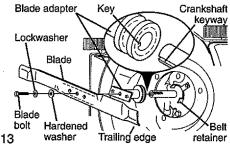


#### TO REPLACE DRIVE BELT

- Place new drive belt on blade adapter.
- 6. Route the other end of the new drive belt through hole in housing.
- Reinstall blade and blade adapter.
- 8. Return mower to upright position.
- Push down on arm, install new belt on gearcase pulley. Release arm slowly.

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

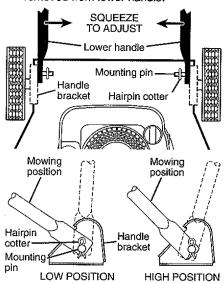
10. Reinstall drive cover.

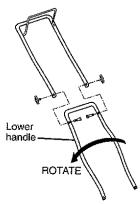


#### TO ADJUST HANDLE

The handle can be mounted in a high or low position. The mounting holes in the bottom of lower handle are off center for raising or lowering the handle.

- Remove upper handle and wire tie(s) securing cable(s) to lower handle.
- 2. Remove hairpin cotters from lower handle bracket mounting pin.
- 3. Squeeze lower handle in to remove it from mounting pins.
- Turn lower handle over to raise or lower handle.
- Squeeze lower handle in and position holes onto mounting pins on handle bracket.
- Reassemble upper handle and all parts removed from lower handle.





#### **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 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 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 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).
- 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.
- Touch up all rusted or chipped paint surfaces; sand lightly before painting.

#### HANDLE

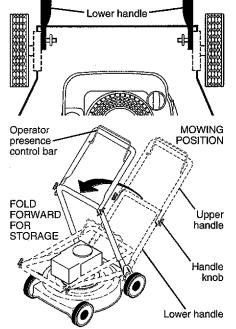
You can fold your mower handle for storage.

- Squeeze the bottom ends of the lower handle toward each other until the lower handle clears the handle bracket, then move handle forward.
- Loosen upper handle mounting bolts enough to allow upper handle to be folded back.

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

 When setting up your handle from the storage position, the lower handle will automatically lock into mowing position.

> SQUEEZE TO FOLD



## 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

- Remove spark plug.
- 2. Pour one ounce (29 ml) of oil through spark plug hole into cylinder.
- 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.

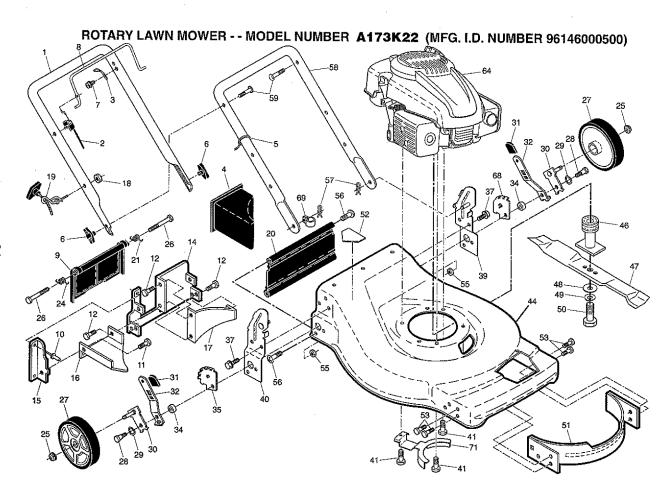
**ACAUTION:** Never store the lawn mower with gasoline in the tank inside a building where fumes may reach an open flame or spark. Allow the engine to cool before storing in any enclosure.

## TROUBLESHOOTING - See appropriate section in manual unless directed to a qualified service center.

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 wire is 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> <li>Replace fuse.</li> </ol>
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.	<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>

# TROUBLESHOOTING - See appropriate section in manual unless directed to a qualified service center.

PROBLEM	CAUSE	CORRECTION
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	Worn, bent or loose blade.     Bent engine crankshaft.	Replace blade. Tighten blade bolt.     Contact a qualified service center.
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>	Depress control bar to upper handle before pulling starter rope.     Contact a qualified service center.     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.	<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	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.

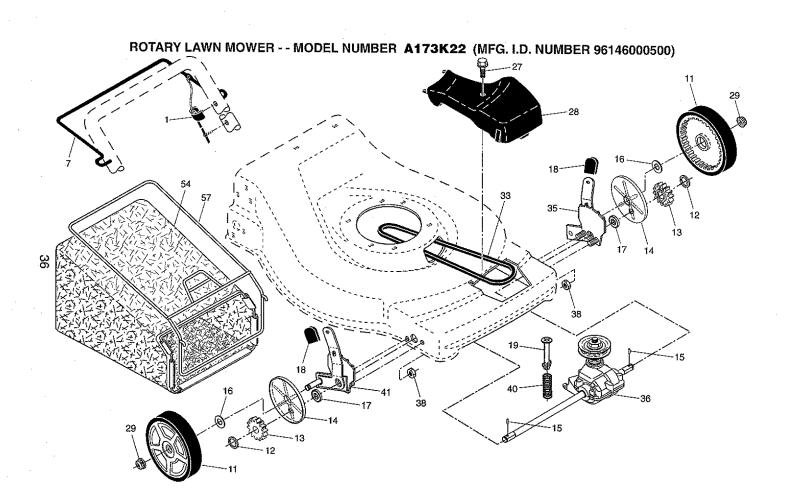


## ROTARY LAWN MOWER -- MODEL NUMBER A173K22 (MFG. I.D. NUMBER 96146000500)

KEY NO.	PART NO.	DESCRIPTION	KEY NO.	PART NO.	DESCRIPTION	KEY NO.	PART NO.	DESCRIPTION
1	427619X479	Upper Handle	24	405423	Spring, Rear Door, RH	50	851084	Screw, Machine, Hex Head
2	156581	Engine Zone Control Cable	25	409148	Nut, Hex, Flanged			Grade 8 3/8-24 x 1-3/8
3	850733X004	Bracket, Upstop	26	184193	Bolt, Rear Door	51	170031	Kit, Front Baffle
4	166649	Mulcher Plug	27	400247X428	Wheel & Tire Assy., Rear			(Includes Key Number 53)
5	66426	Wire Tie	28	174719	Bolt, Shoulder 3/8-16 x 1	52	404763	Danger Decal
6	189713X428	Handle Knob	29	401630	Washer, Curved, Cylindrical	53	17600406	Screw, Serrated, Type TT
7	750634	Screw	30	401179X004	Axle Arm Assembly			1/4-20
8	427414X428	Control Bar	31	701037	Selector Knob	55	73930600	Nut, Hex 3/8-16
9	401813X428	Rear Door Assembly	32	401621X004	Selector Spring	56	88652	Hinge Screw 1/4-20 x 1-1/4
10	128415	Pop Rivet	34	401629	Spacer	57	51793	Hairpin Cotter
ပ္ဟ 11	150050	Screw, Self-Tapping	35	407492X005	Wheel Adjusting Bracket,	58	151590X479	Lower Handle
		#10-24 x 5/8			RH	59	191574	Handle Bolt
12	17060410	Screw, Sems, Hex Head,	37	428867	Screw 5/16-18 x 3/4	64		Engine, Kohler,
		1/4-20 x 1/2	39	195916X479	Handle Bracket Assy., LH			Model Number XT173-0224
14	195622X479	Back Plate	40	195917X479	Handle Bracket Assy., RH			(See Breakdown)
15	410545X479	Side Baffle	41	150406	Screw, Hex Head,	68	407493X005	Wheel Adjusting Bracket, LH
16	176655X479	Discharge Baffle			Thread/Roll 3/8-16 x 1-1/8	69	197991	Clip, Cable
17	140661X479	Rear Baffle	44	430857	Kit, Housing (Includes Key	71	422044X004	Belt Keeper
18	132004	Keps Locknut 1/4-20			Numbers 14, 15 and 51)		404764	Warning Decal (not shown)
19	194788	Rope Guide	46	421176	Blade Adapter / Pulley		431588	Owner's Manual,
20	413160	Rear Skirt	47	406713	Blade, 22"			English / Spanish
21	405421	Spring, Rear Door, LH	48	851074	Washer, Hardened		431589	Owner's Manual, French
			49	850263	Washer, Helical			- III. S Tribition; I tolibit

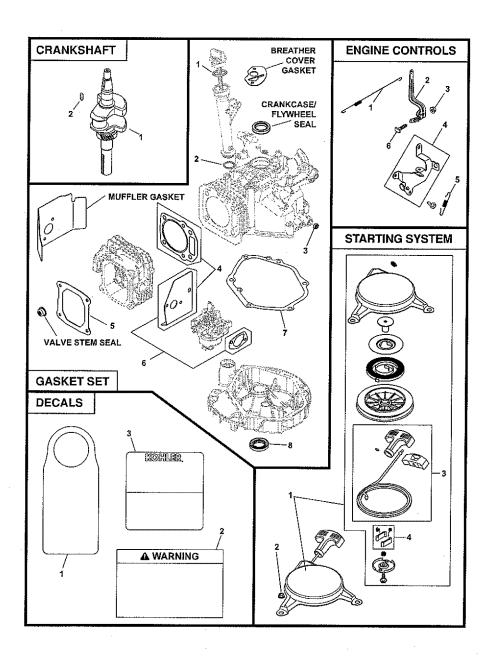
NOTE: All component dimensions given in U.S. inches. 1 inch = 25.4 mm.

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.

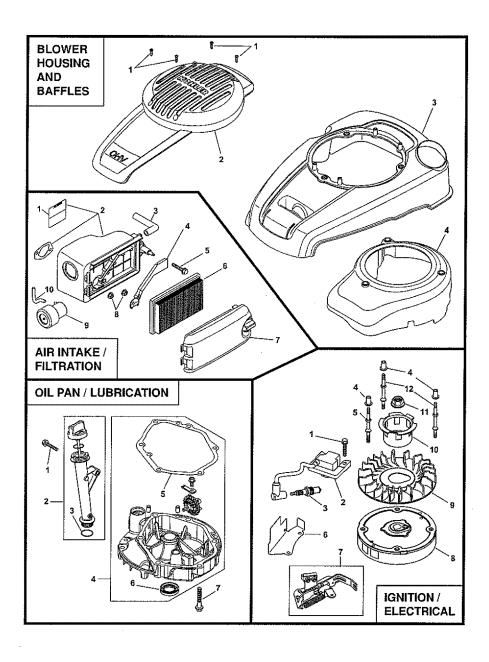


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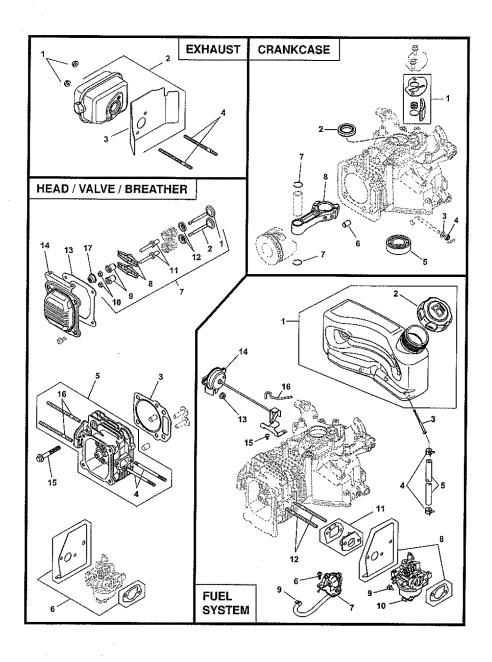
NO.	NO.	DESCRIPTION	NO.	NO. I	DESCRIPTION
1	194653	Cable, Drive Control	28	401271X428	3 Drive Cover
7	194185X428	Bar, Drive Control	29	409148	Locknut, Hex
11	193912X428	Wheel & Tire Assembly, Front	33	146527	V-Belt
12	12000058	E-Ring	35	424201	Kit, Wheel Adjuster, LH
13	403849	Pinion			(Includes Knob and Bearing)
14	189403	Dust Cover	36	415226	Gear Case Assembly, Complete
15	404845	Pawl, Drive	38	73800400	Locknut, Hex 1/4-20
16	67725	Washer, Flat 3/8	40	137090	Spring
17	191039	Bearing, Wheel Adjuster	41	424200	Kit, Wheel Adjuster, RH
18	701037	Selector Knob			(Includes Knob and Bearing)
19	150495	Spring Retainer	54	430858	Grassbag Assembly
27	175262	Pan Head Tapping Screw #10-24 x 2-3/4	57	411952	Frame, Grassbag
					<del>-</del>



Key No. 1 2	ANKSHAFT Part No. 14 014 47-S 14 340 01-S SKET SET	<b>Description</b> Crankshaft Assembly Key, Flywheel	Key	CALS Part No. 14 450 02-S 14 113 03-S 41 037 10-S	Description Hang Tag, Maintenance Decal, Warning Nameplate, Service
Key	Part No. 14 153 01-S 14 153 03-S 14 032 04-S 14 841 04-S 14 041 01-S 14 041 05-S	Description O-Ring, Dipstick O-Ring, Oil Fill Tube Seal, Oil Kit, Head Gasket (Includes Key Number 6 and Muffler Gasket) Gasket, Valve Cover Kit, Carb Gasket	<b>EN</b> (	GINE CONTE Part No. 14 089 07-S 14 090 12-S M-641060-S 14 126 22-S 14 089 14-S	Description Spring, Linkage Lever, Governor Nut, Flanged M6 x 1.0 Control Assembly, Fixed Speed Spring, Governor
7 8 Not	14 041 06-S 14 032 05-S Illustrated: 14 755 01-S	(Includes Carburetor Heat Shield Gasket and Air Cleaner Base Gasket) Gasket, Oil Pan Seal, Oil (PTO) Gasket Set (Includes Key Numbers 1–8, Muffler Gasket, Breather Cover Gasket, Valve Stem Seal and Crankcase / Flywheel Seal)	Key	25 086 166-S ARTING SYS Part No. 14 165 01-S	(2800–3300 RPM) Screw, Retangle Head (M6)  TEM  Description Starter, Recoil (Includes Key Numbers 3 and 4, Recoil Housing, Recoil Bushing, Recoil Guide Plate, Recoil Springs, Recoil Pulley, Recoil Retainer Plate & Recoil Shoulder Screw)
			2 3	M-641060-S 14 160 01-S 14 379 01-S	Nut, Flanged M6 x 1.0 Kit, Starter Rope, with Handle (Includes Coil Starter Rope, Recoil Starter Handle, Recoil Starter Handle Retainer and Recoil Rope Retainer) Kit, Pawl Repair (Includes Recoil Springs and Recoil Starter Pawls)



		ING & BAFFLES		PAN / LUBR	RICATION
Key	Part		Key	Part	
No.	No.	Description	No.	No.	Description
1	25 086 167-S	Screw, Pan Head, #15, 6-Lobe (Hi-Lo Thread)	1	25 086 145 <b>-</b> S	Screw, Hex Head, Flanged (M6)
2	14 332 04-S	Insert, Engine Cover (Black)	2	14 123 13-S	Tube Assembly, Oil Fill (Includes
3 4	14 096 27-S 14 027 03-S	Cover, Engine (Black) Housing, Blower,	3	14 153 03 <b>-</b> S	Key Number 3) O-Ring, Oil Fill Tube
_	14 027 00-0	with Electric Start	4	14 199 06-S	Kit, Oil Pan (Includes
	INTAKE / F	ILTRATION			Key Numbers 5 and 6, Governor Gear Ass-
	Part				embly and Dowel Pins)
No.	No.	Description	5	14 041 06-S	Gasket, Oil Pan
1	41 037 10-S	Nameplate, Service	6	14 032 07 <b>-</b> S	Seal, Oil
2	14 094 13-S	Kit, Air Cleaner Base	7	25 086 161-S	Screw, Hex Head,
		(Primer) (Includes Key Number 1 and Air			Flanged (M8)
		Cleaner Base Gasket)	IGN	IITION / ELE	CTRICAL
3	14 123 05-S	Hose, Breather		Part	OTMORE
4	14 096 51-S	Cover, A/C Base		No.	Description
т	14 000 01-0	(Breather Gas)	1		Screw, Hex Head,
5	25 086 145-S	Screw, Hex Head,	·		Flanged (M6)
6	14 083 01-S	Flanged (M6) Element, Air Cleaner	2	14 584 01-S	Module, Ignition (Aluminum with RFI)
7	14 096 09-S	Kit, Air Cleaner Cover	3	12 132 02-8	Plug, Spark (Standard)
8	M-641060-S	Nut, Flanged M6 x 1.0	4	14 112 07-S	Spacer
			5	14 072 13-S	Stud
			6	14 314 01-S	Guard
			7	14 219 07-S	Brake Assembly, Carb
					Side (Includes Brake Lever, Brake Spring, Flange Nuts, Brake Pad, Ground To Kill
					Lead, Screw, Kill Switch, Brake Bracket, Brake Lever Washer and Brake Lever Rivet)
			8	14 025 02-S	Flywheel (Aluminum)
			9	14 157 01-S	Fan, Flywheel
			- 10	14 109 02-S	Cup, Drive
			11	14 100 10-S	Nut, Flywheel (with Serrations)
			12	14 072 12-S	Stud



	HAUST		FU	EL SYSTEM	
	/ Part		Key	/ Part	
	No.	Description	No.	No.	Description
1	14 100 09-S	Locknut, Hex, Flanged (M6)	1	14 065 24-S	Kit, Tank Assembly (Non-California)
2	14 068 05-S	Kit, Muffler (Includes Muffler Gasket)	2 3	14 227 11-S 14 050 14-S	Cap, Fuel Assembly Filter, Fuel In-Nipple
3	14 041 22-S	Gasket, Muffler	4	14 237 07-S	Clamp, Hose
4	14 072 06-S	Stud (M6)		14201 01-0	(Non-California)
			5	25 111 34-S	Line, Fuel
HE	AD / VALVE /	BREATHER	_		(24", Cut To Length)
Key	/ Part		6	25 086 275-S	Screw, Shoulder
No.	No.	Description	7	14 268 04-S	Diaphragm Assembly
1	14 017 01 <b>-</b> S	Valve, Intake	8	14 041 05-S	Kit, Carburetor Gasket
2	14 016 01-S	Valve, Exhaust			(Includes Carburetor
3	14 841 04-S	Kit, Head Gasket			Heat Shield Gasket
		(Includes Key Number			and Air Cleaner Base
	04.070.00.0	6 and Muffler Gasket)	_		Gasket)
4 5	24 072 06-S 14 318 01-S	Stud, M6 x 1.0 x 93	9	14 237 05-S	Clamp, Hose
ð	14 3 10 0 1-5	Kit, Cylinder Head (Includes Key	10	14 853 17-S	Kit, Carburetor, with
		Numbers 4 and 16)			Gaskets (Includes Key Number 8)
6	14 041 24-S	Kit, Gasket	11	14 112 13-S	Kit, Carburetor Spacer
7	14 755 02-S	Kit, Valve Train	12	24 072 06-S	Stud, M6 x 1.0 x 93
-		(Includes Key	13	M-641060-S	Nut, Flanged M6 x 1.0
		Numbers 1, 2, 8-12,	14	14 187 01-S	Arm Assembly
		Valve Stem Seal,	15		Screw, Thread
		Valve Springs, Push			Forming, M4
		Rod Guide Plate,	16	14 079 17-S	Linkage, Auto Choke
		Cylinder Head Dowels	Not	Illustrated:	
_		and Push Rods)		14 757 01-S	Kit, Carburetor Repair
8	14 186 02-S	Arm, Rocker			(Includes Key No. 8)
9 10	14 599 01-S	Pivot, Rocker Arm	<b>an</b>		
11	14 100 01-S 14 072 02-S	Nut, Hex Jam Stud, Rocker Arm		ANKCASE	
12	14 012 02-3 14 018 02-S	Retainer, Valve Spring		Part No.	Decarintian
13	14 041 01-S	Gasket, Valve Cover	1	14 050 01-S	Description Kit, Breather Filter
14	14 096 05-S	Kit, Valve Cover	'	14 000 01-0	(Includes Breather
•		(Includes Key No. 13)			Cover Gasket,
15	25 086 140-S	Screw, Flanged			Breather Cover Spring,
		M8 x 1.25 x 55			Breather Filter and
16	14 072 06 <b>-</b> S	Kit, Exhaust Hardware			Breather Reed)
	•	(Includes Muffler	2	14 032 02-S	Seal, Oil
		Gasket, Exhaust Studs	3	14 468 07-S	Washer, Flat
		and Flanged Locknuts)			(13mm O.D.)
		•	4	14 032 04-S	Seal, Oil
			5	17 030 12-S	Bearing, Ball
			6	14 380 06-S	Dowel, Cylinder Head
			7 8	14 018 03-8	Retainer, Piston Pin
			0	14 067 01-S	Connecting Rod

### LIMITED WARRANTY

The Manufacturer warrants to the original consumer purchaser that this product as manufactured is free from defects in materials and workmanship. For a period of two (2) years from date of purchase by the original consumer purchaser, we will repair or replace, at our option, without charge for parts or labor incurred in replacing parts, any part which we find to be defective due to materials or workmanship. This Warranty is subject to the following limitations and exclusions.

 This warranty does not apply to the engine, transaxle/transmission components, battery (except as noted below) or components parts thereof. Please refer to the

applicable manufacturer's warranty on these items.

Transportation charges for the movement of any power equipment unit or attachment are the responsibility of the purchaser. Transportation charges for any parts submitted for replacement under this warranty must be paid by the purchaser unless such return is requested by the manufacturer.

3. Battery Warranty: On products equipped with a Battery, we will replace, without charge to you, any battery which we find to be defective in manufacture, during the first ninety (90) days of ownership. After ninety (90) days, we will exchange the Battery, charging you 1/12 of the price of a new Battery for each full month from the date of the original sale. Battery must be maintained in accordance with the instructions furnished.

4. The Warranty period for any products used for rental or commercial purposes is limited to 45 days from the date of original purchase.

5. This Warranty applies only to products which have been properly assembled, adjusted, operated, and maintained in accordance with the instructions furnished. This Warranty does not apply to any product which has been subjected to alteration, misuse, abuse, improper assembly or installation, delivery damage, or to normal wear of the product.

Exclusions: Excluded from this Warranty are belts, blades, blade adapters, normal wear, normal adjustments, standard hardware and normal maintenance.

In the event you have a claim under this Warranty, you must return the product to an authorized service dealer.

Should you have any unanswered questions concerning this Warranty, contact:

HOP Customer Service Department 9335 Harris Corners Parkway Charlotte, NC 28269 USA In Canada contact: HOP Customer Service Department 5855 Terry Fox Way Mississauga, Ontario L5V 3E4

giving the model number, serial number and date of purchase of your product and the name and address of the authorized dealer from whom it was purchased. THIS WARRANTY DOES NOT APPLY TO INCIDENTAL OR CONSEQUENTIAL DAMAGES AND ANY IMPLIED WARRANTIES ARE LIMITED TO THE SAME TIME PERIODS STATED HEREIN FOR OUR EXPRESSED WARRANTIES. Some areas do not allow the limitation of consequential damages or limitations of how long an implied Warranty may last, so the above limitations or exclusions may not apply to you. This Warranty gives you specific legal rights, and you may have other rights which vary from locale to locale.

This is a limited Warranty within the meaning of that term as defined in the Magnuson-Moss Act of 1975.

