

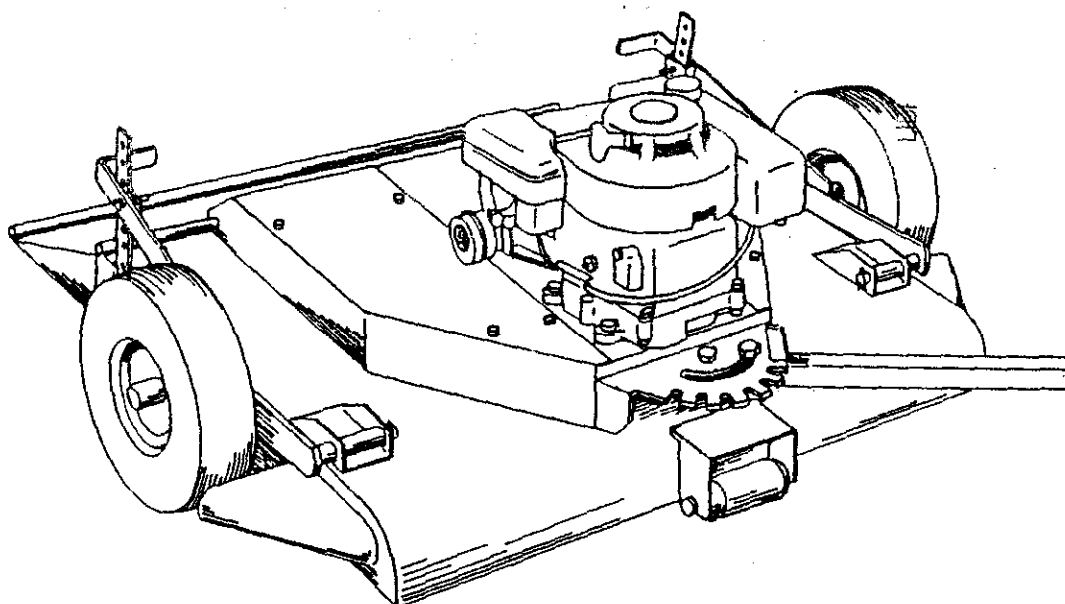
Owner's Manual

CRAFTSMAN[®]

42-inch Universal
Tow Behind

POWER MOWER

Model no. 486.243291



CAUTION:

Before using this power mower, read this manual and follow all its Safety rules and Operating instructions.

- Safety Instructions
- Assembly
- Operation
- Maintenance
- Parts

Sears, Roebuck and Co., Hoffman Estates, IL 60179 USA

TABLE OF CONTENTS

WARRANTY.....	2	OPERATION.....	10-14
SAFETY RULES.....	2-4	MAINTENANCE.....	15-17
CONTENTS OF CARTON.....	5	SERVICE AND ADJUSTMENT.....	18,19
ASSEMBLY.....	6-8	STORAGE.....	21
WIRING SCHEMATIC.....	9	REPAIR PARTS.....	22-33

LIMITED ONE YEAR WARRANTY ON POWER MOWER ATTACHMENT

For one (1) year from the date of purchase, if this Power Mower is maintained, lubricated and tuned up according to the instructions in the Owner's Manual, Sears will repair or replace, free of charge, any parts that are defective in material or workmanship.

This Warranty does not cover:

- Expendable items which become worn during normal use, such as belts or cutting blades.
- Repairs necessary because of operator abuse, negligence, improper storage or accident or the failure to maintain the equipment according to the instructions contained in the Owner's Manual.
- Power Mower Attachment used for commercial or rental purposes.

WARRANTY SERVICE IS AVAILABLE BY RETURNING THE POWER MOWER TO THE NEAREST SEARS SERVICE CENTER IN THE UNITED STATES.

This Warranty gives you specific legal rights, and you may also have other rights which may vary from state to state.

SEARS, ROEBUCK AND CO., D/817 WA, Hoffman Estates, IL 60179

SAFETY RULES

Safe Operation Practices for Tow Behind Mowers



WARNING: 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.

I. GENERAL OPERATION

- Read, understand, and follow all instructions in the manual and on the machine before starting.
- Read this operator's manual carefully. Become familiar with the controls and know how to operate your mower properly.
- Only allow responsible adults, who are familiar with the instructions, to operate the machine.
- Clear the area of objects such as rocks, toys, wire, etc., which could be picked up and thrown by the blade.
- Be sure the area is clear of other people before mowing. Stop machine if anyone enters the area.
- Never carry passengers.
- Do not mow in reverse unless absolutely necessary. Always look down and behind before and while backing.
- Be aware of the mower discharge direction and do not point it at anyone. Do not operate the mower without the guard in place.
- Slow down before turning.
- Never leave a running machine unattended. Always turn off blades, and stop engine.
- Turn off blades when not mowing.
- Mow only in daylight or good artificial light.
- Do not operate the machine while under the influence of alcohol or drugs.
- Watch for traffic when operating near or crossing roadways.
- Use extra care when loading or unloading the machine into a trailer or truck.
- Do not attempt to operate your tractor or mower when not in drivers seat.
- Disengage power to mower and stop engine when transporting or not in use.

- Exercise special care when mowing around fixed objects in order to prevent the blades from striking them. Never deliberately run tractor or mower onto or over any foreign object.
- Use mower only as the manufacturer intended and as described in this manual.
- Do not operate mower if it has been dropped or damaged in any manner. Always have damage repaired before using your mower.
- Always wear safety glasses or eye shields when starting and while using your mower.
- Dress properly. Do not operate mower when barefoot or wearing open sandals. Wear only solid shoes with good traction when mowing.
- Always make cutting height adjustments before starting your mower. Never attempt to do this while the engine is running.
- Keep your eyes and mind on your mower and the area being cut. Do not let other interests distract you.
- Do not put hands or feet near or under rotating parts. Keep clear of the discharge opening at all times.
- Before cleaning, inspecting, or repairing your mower, stop the engine and make absolutely sure the blade and all moving parts have stopped. Then disconnect the spark plug wire and keep it away from the spark plug to prevent accidental starting.
- Do not operate your mower if it vibrates abnormally. Excessive vibration is an indication of damage; stop the engine, safely check for the cause of vibration and repair as required.
- Never operate your mower without proper guards, plates, or other safety devices in place.

II. SLOPE OPERATION

Slopes are a major factor related to loss-of-control and tipover accidents, which can result in severe injury or death. All slopes require extra caution. If you feel uneasy on it, do not mow it.

DO:

- Mow up and down slopes, not across.
- Remove obstacles such as rocks, tree limbs, etc.
- Watch for holes, ruts, or bumps. Uneven terrain could overturn the machine. Tall grass can hide obstacles.
- Use slow speed. Choose a low gear so that you will not have to stop or shift while on the slope.
- Follow the manufacturer's recommendations for wheel weights or counterweights to improve stability.
- Keep all movement on the slopes slow and gradual. Do not make sudden changes in speed or direction.
- Avoid starting or stopping on a slope. If tires lose traction, disengage the blades and proceed slowly straight down the slope.

DO NOT:

- Do not turn on slopes unless necessary, and then, turn slowly and gradually downhill, if possible.
- Do not mow near drop-offs, ditches, or embankments. The mower could suddenly turn over if a wheel is over the edge of a cliff or ditch, or if an edge caves in.
- Do not mow on wet grass. Reduced traction could cause sliding.

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 mowing area and under the watchful care of another responsible adult.
- Be alert and turn machine off if children enter the area.
- Before and when backing, look behind and down for small children.
- Never carry children. They may fall off and be seriously injured or interfere with safe machine operation.
- Never allow children to operate the machine.
- Use extra care when approaching blind corners, shrubs, trees, or other objects that may obscure vision.

IV. SERVICE

- Use extra care in handling gasoline and other fuels. They are flammable and vapors are explosive.
 - Use only an approved container.
 - Never remove gas cap or add fuel with the engine running.
 - Allow engine to cool before refueling. Do not smoke near or while operating mower.
 - Never refuel the machine indoors.
 - Never store the machine or fuel container inside a room where there is an open flame, such as with a gas water heater.
- Never run a machine inside a closed area.
- Keep nuts and bolts, especially blade attachment nuts, 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 make adjustments or repairs with the engine running.

- Mower blades are sharp and can cut. Wrap the blade(s) or wear gloves, and use extra caution when servicing them.
- Check brake operation frequently. Adjust and service as required.



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



CAUTION: Always disconnect spark plug wire and place wire where it cannot contact spark plug in order to prevent accidental starting when setting up, transporting, adjusting or making repairs.

Please read and keep this manual. The instructions will enable you to assemble and maintain your Power Mower properly. Always observe the "Safety Rules."

Record serial number and date of purchase in space provided below.


MODEL NUMBER: 486.243291

SERIAL NUMBER: _____

DATE OF PURCHASE: _____

The model and serial numbers will be found on a plate attached to the right side of the Drive Housing.

You should record both serial number and date of purchase and keep in a safe place for future reference.

 **WARNING:** This unit is equipped with an internal combustion engine and should not be used on or near any unimproved forest-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.

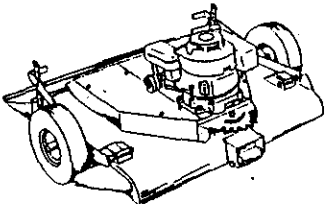
In the state of California the above is required by law (Section 4442 of the California Public Resources Code). Other states may have similar laws. Federal laws apply on federal lands. A spark arrester for the muffler is available through your nearest Sears Authorized Service Center.


PRODUCT SPECIFICATIONS

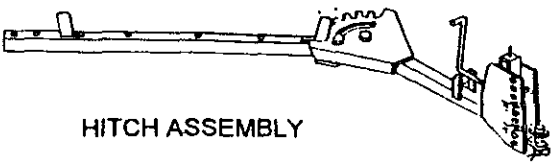
HORSEPOWER:	8.0
DISPLACEMENT:	19.4 CU. IN.
GASOLINE CAPACITY:	3 QUARTS
GASOLINE TYPE:	UNLEADED REGULAR
OIL TYPE (API-SF/SG):	SAE 30 (ABOVE 32°F) SAE 5W-30 (BELOW 32°F)
OIL CAPACITY:	3.0 PINTS
SPARK PLUG: (GAP: .030")	CHAMPION RJ19-LM STD361458
VALVE CLEARANCE:	INTAKE: .005 - .007 IN. EXHAUST: .009 - .011 IN.
BLADE BOLT TORQUE	35-40 FT. LBS.
TIRE PRESSURE	10 PSI
WIDTH OF CUT	42 INCHES

CONTENTS OF CARTON

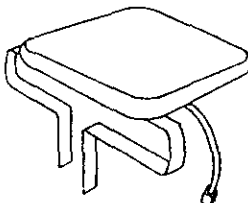
PARTS PACKED SEPARATELY IN CRATE

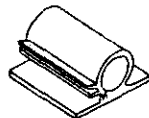
 MOWER DECK


 PARTS BAG


 HITCH ASSEMBLY

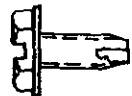
PARTS BAG CONTENTS

 OPERATOR PRESENCE SEAT

 CABLE GUIDE (2)

 3/8 CABLE CLIP (3)

 1/2 CABLE CLIP (3)

 SCREW (3)

ASSEMBLY

REMOVING UNIT FROM CRATE

- Remove top boards.
- Remove two Bolts from front of crate which hold shipping anchors.
- Remove two Bolts from bottom at rear of crate which hold shipping anchors.
- Remove Hitch Assembly and Parts Bag from crate.
- Remove front of crate.
- Roll Mower forward out of crate.
- Remove Roller Bolt from Front Roller, remove shipping anchors and reinstall Roller Bolt.
- Remove Nuts from Height Adjustment Straps and remove shipping anchors from each side of mower. Reinstall Nuts to Height Adjustment Straps, then loosen 1/4 turn to allow straps to pivot freely.
- Check all loose parts and bag contents against Crate Contents and Bag Contents illustration on page 4. If any part is missing or damaged contact the store where you purchased the unit.



CAUTION

Before starting to assemble mower, remove spark plug wire from plug of mower engine.

OPERATOR ORIENTATION

When right and left are mentioned in this manual, it means your right and your left when you are seated behind the wheel in the operating position.

ENGINE OIL

VERY IMPORTANT:

Engine must be filled with oil before operation. See OIL & FUEL RECOMMENDATIONS in engine Owner's Manual for correct filling instructions and oil fill capacity.

INSTALL TOWBAR TUBE TO REAR QUADRANT

- Cut and remove the Plastic Tie which holds the Wire Harness and the Clutch Cable to the Rear Quadrant (See Fig. 1)
- Remove two 3/8 Bolts, two 3/8 Lock Nuts and one 3/8 Flat Washer from the rear of the Towbar Tube.
- Place tube into Rear Quadrant, align holes, insert 3/8-16 x 2-1/2 Hex Bolt through rear hole of tube.
- Secure tightly with 3/8-16 Lock Nut then loosen Nut 1/4 turn to allow tube to pivot freely inside Rear Quadrant.

- Assemble a 3/8 Flat Washer onto a 3/8-16 x 2-1/2 Hex Bolt.
- Insert Bolt and Washer through slot of Rear Quadrant and hole in Towbar Tube.
- Secure tightly with 3/8-16 Lock Nut then loosen Nut 1/4 turn to allow tube to pivot freely inside Rear Quadrant.

NOTE: Towbar Tube must pivot freely inside Rear Quadrant when latch is pulled from notch.

INSTALL CLUTCH CABLE AND WIRE HARNESS TO TOWBAR TUBE.

- Unwrap the Wire Harness and the Clutch Cable from Around The Engine.
- Lay the Clutch Cable along the left side of the Towbar Tube and the Wire Harness along the right side of the Towbar Tube.
- Install three 3/8" Cable Clips on the Clutch Cable and three 1/2" Cable Clips onto the Wire Harness.
- Align all six Cable Clips with the holes in the Towbar Tube and secure them with three #10 Self-Tapping Screws.

INSTALL CLUTCH CABLE TO THE HITCH ASSEMBLY

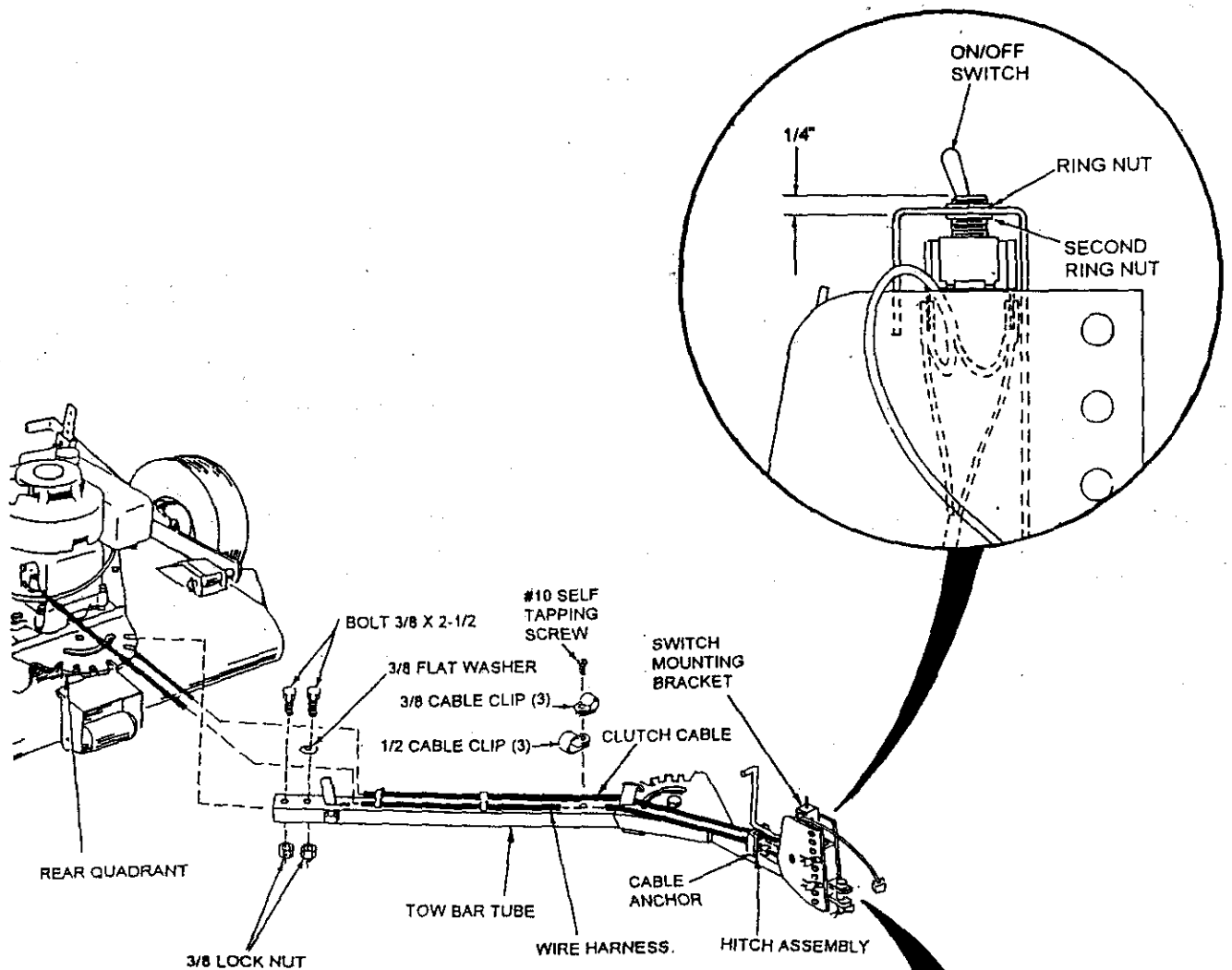
- Remove one 1/4 inch Nut and Bolt from the eyelet of the Clutch Cable. (See Fig. 1)
- Remove one of the 5/16 inch Nuts from the threaded end of the Clutch Cable Housing and turn the second Nut all the way onto the threads. Insert the Clutch Cable and the loose 5/16 inch Nut through the slotted hole in the Cable Guide of the Hitch Assembly.

NOTE: The loose 5/16 Nut must be cocked sideways slightly to get it through the slot.

- Reinstall the loose 5/16 inch Nut onto the Clutch Cable Housing to secure Cable Housing.
- Align the eyelet of the Clutch Cable with the hole in the Mower Blade Clutch Lever and secure with one 1/4 inch Bolt and one 1/4 inch Nut.

VERY IMPORTANT

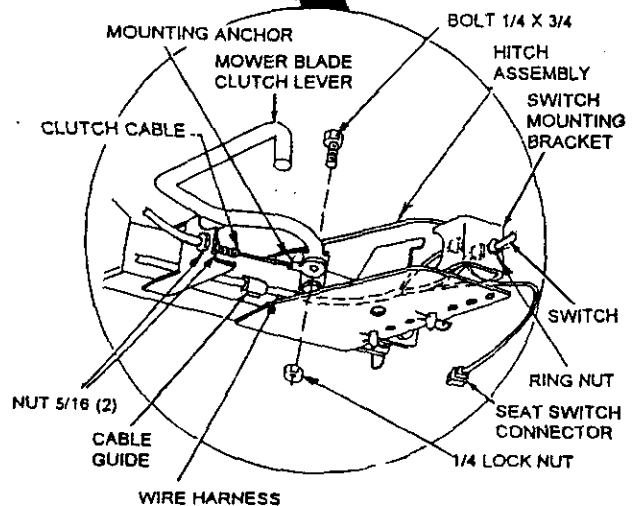
See DRIVE TENSION in the SERVICE AND ADJUSTMENTS Section of this manual for proper Clutch Cable adjustment.



INSTALL THE WIRE HARNESS AND THE ON/OFF SWITCH

- Slide the Wire Harness under the Cable Anchor of the Hitch Assembly.
- Connect two 1/4 Female Spade Connectors from the Wire Harness to the prongs of the ON/OFF Switch.
- Insert the Seat Switch Plug of the Wire Harness into the Hitch Assembly, Pulling it up and through the right top side of the Switch Mounting Bracket.
- Remove one Ring Nut from the ON/OFF Switch and adjust the second Ring Nut 1/4 inch from the top of the threads.
- Insert the ON/OFF Switch up through the Switch Mounting Bracket and secure it by reinstalling the Ring Nut.

NOTE: The notch in the threads of the ON/OFF Switch must face toward the "ON" of the ON/OFF Switch Decal to insure proper ON/OFF control.



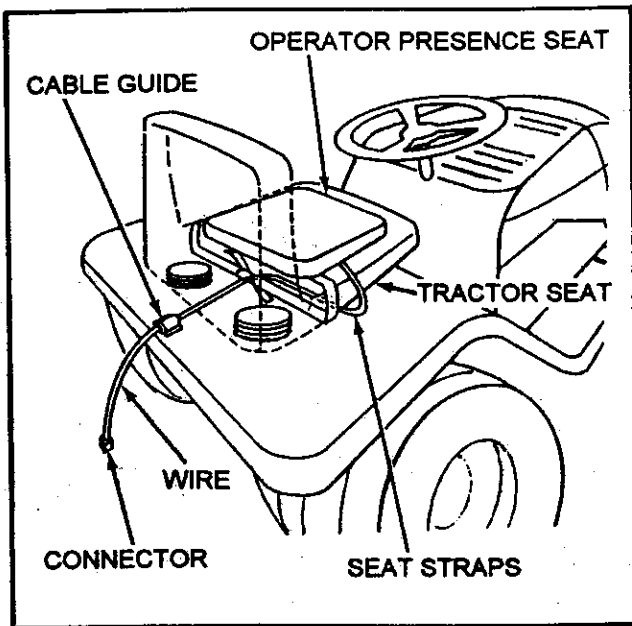


FIG. 1A

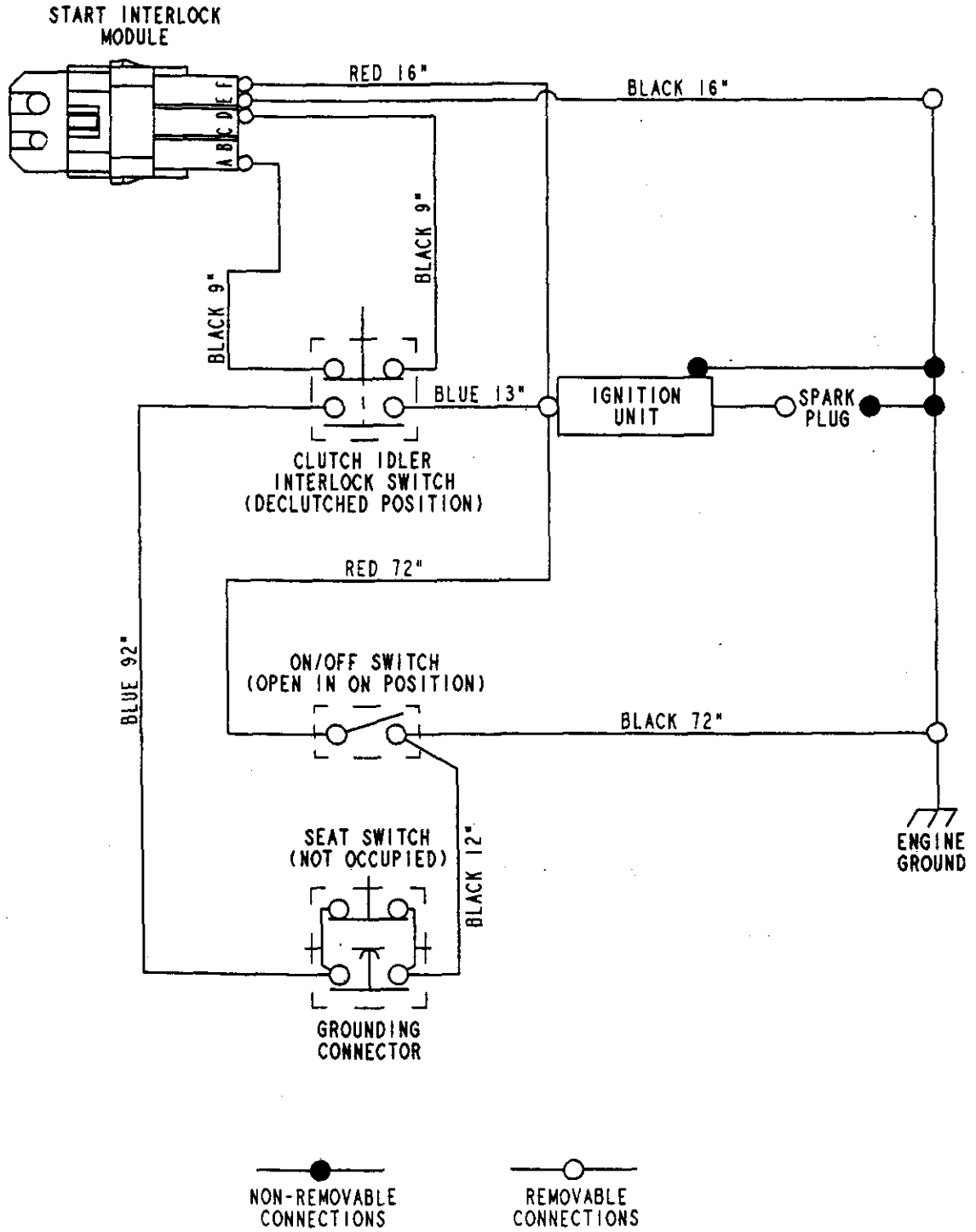
INSTALL OPERATOR PRESENCE SEAT TO TRACTOR

Your Mower is equipped with an Operator Presence Seat to provide for your safety. The Operator Presence Seat must be installed on the seat of the tow vehicle and must be plugged in to the Wire Harness of the Mower for proper operation of this unit.

NOTE: In order to start the mower engine you must have the Operator Presence Seat plugged into the Wire Harness of the Mower and the Mower Blade Clutch Lever in the disengaged position. In order to engage the Mower Blades You must be seated on the Tow Vehicle and on the Operator Presence Seat.

- Place the Operator Presence Seat on the Tractor Seat with the Wire toward the bottom and secure with the seat strap. (See Fig. 1A)
- Lift Tractor Seat and install a cable guide in the middle of the Tractor rear fenders.
- Place Operator Presence Seat Wire into Cable Guide with the connector toward the rear so as to connect with the Seat Switch Plug of the Wire Harness.
- Lower Tractor Seat
- Connect Operator Presence Seat wire to the Seat Switch Plug of the Wiring Harness.

WIRING SCHEMATIC



OPERATION

KNOW YOUR MOWER

READ THIS OWNER'S MANUAL AND SAFETY RULES BEFORE OPERATING YOUR MOWER.

Compare the illustrations with your mower to familiarize yourself with the location of various controls and adjustments. Save the manual for future reference.

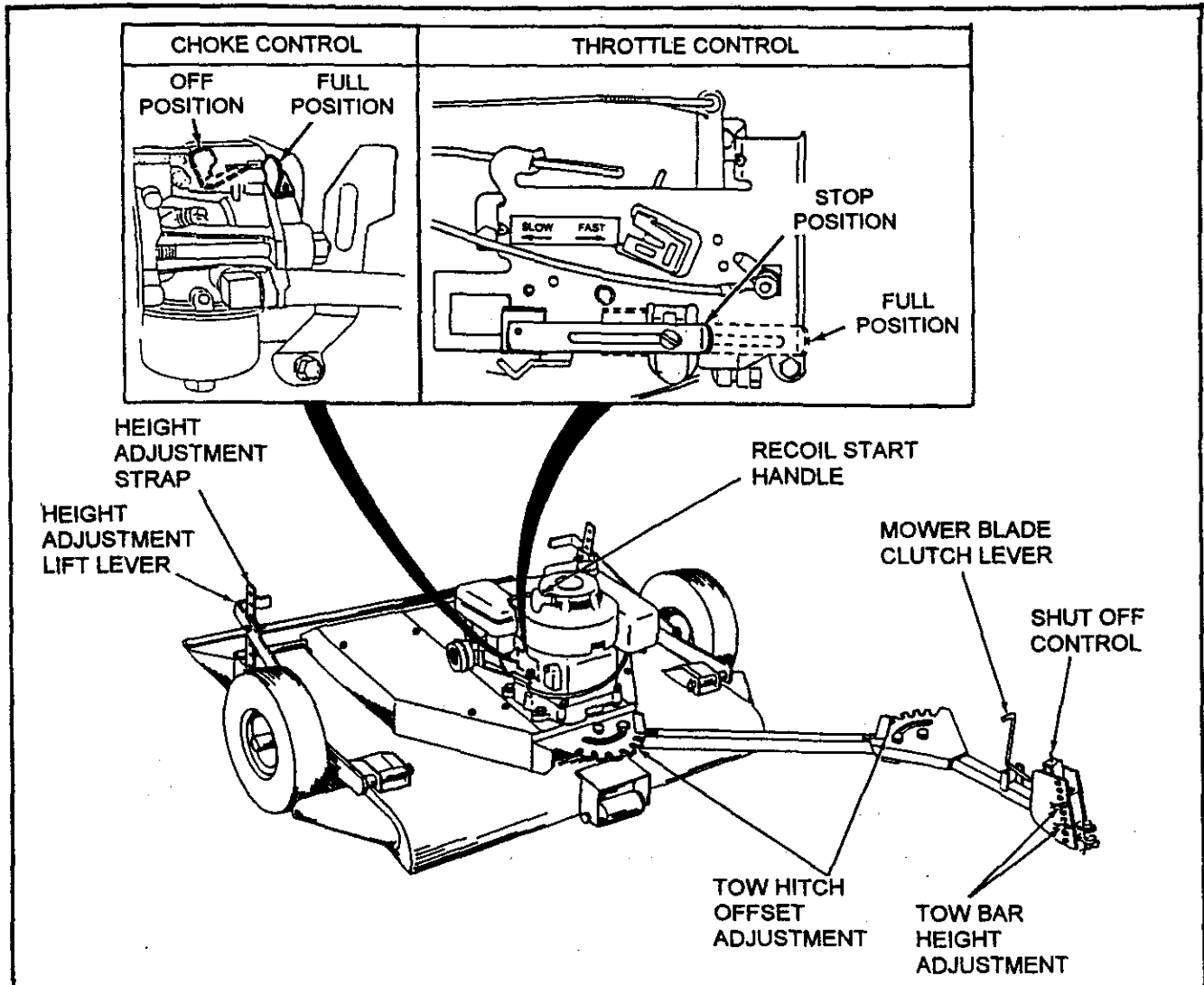


FIG. 2

MOWER BLADE CLUTCH LEVER - Starts and stops mower blade rotation.

THROTTLE CONTROL - Controls engine speed, engine shut-off.

SHUT OFF CONTROL - Used to shut off mower engine from tractor seat.

HEIGHT ADJUSTMENT LIFT LEVER - Raise and lower mower to different cutting heights.

HEIGHT ADJUSTMENT STRAP - Controls cutting height.

TOW BAR HEIGHT ADJUSTMENT - To level mower front to rear.

RECOIL START HANDLE - Used to start engine.
TOW HITCH OFFSET ADJUSTMENT - To adjust mower deck offset from tractor center.

CHOKE CONTROL - Opens and closes choke.



The operation of any mower can result in foreign objects being thrown into the eyes, which can result in severe eye damage. Always wear safety glasses or eye shields before starting your mower and while mowing. We recommend wide vision safety mask for over the spectacles or standard safety glasses.

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.

HOW TO USE YOUR MOWER

STOPPING

- Move blade clutch lever to Off position.
- Move engine shut off switch to Off position.
- Move engine throttle to Stop position.

STARTING

- Move engine shut off switch to On position.
- Move engine throttle to Full position.
- Move choke to full.
- Move blade clutch lever to Off position.
- Pull start rope.
- Move engine choke to Off position after engine starts.

USING

- Sit on tractor seat.
- Raise blade clutch lever to Engage position.
- Operate tractor at medium ground speed, 3-4 MPH.
- Refer to Safety Rules on page 3 regarding operation of mower on slopes.

TRANSPORTING

- Shut off engine.
- Place mower deck in the highest position directly behind tractor.

ATTACHING MOWER TO TRACTOR

- Place mower behind tractor and back tractor up to it for attaching. (See Fig. 3)
- Slide tow bar of mower over tractor drawbar so that the hitch pin holes line up.
- Insert hitch pin until it extends through the bottom of the tow bar.
- Insert hair cotter pin through hitch pin.

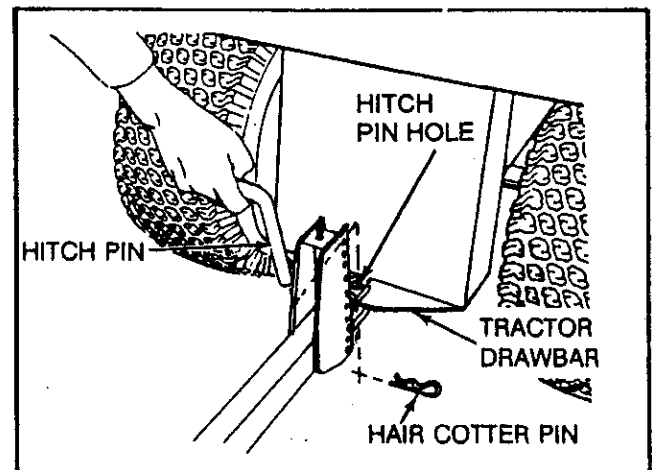


FIG. 3



CAUTION:
Never operate the mower without discharge chute cover in its proper place.

CUTTING HEIGHT INFORMATION



CAUTION:

Shut off mower engine and remove spark plug wire from spark plug before making any adjustments to mower.

The cutting height range is approximately 1-1/2 to 4-1/2 inches. The heights are measured from the ground to the blade tip with the engine not running. These heights are approximate and may vary depending upon soil conditions, height of grass and types of grass being mowed.

The average lawn should be cut to approximately 2-1/2 inches during the cool season and to over 3 inches during hot months. For healthier and better looking lawns, mow often and after moderate growth.

For best cutting performance, grass over 6 inches in height should be mowed twice. Make the first cut relatively high, the second to desired height.

CUTTING HEIGHT ADJUSTMENTS

- To adjust the mower cutting height remove hair cotter pin from clevis pin in the Height Adjustment Strap. (See Fig. 4)
- Apply down pressure to height adjustment lift lever.
- Remove the clevis pin from the height adjustment strap.
- Move height adjustment strap up or down to align it with the desired hole in the height adjustment strap.

- Reassemble clevis pin to the height adjustment strap and secure with hair cotter pin.
- Make sure that both side height adjustment straps are adjusted to the same height.

FRONT TO BACK RAKE ADJUSTMENT

To obtain the best cutting results, the mower housing should be adjusted so that the front is approximately 1/4" to 3/4" lower than the rear. To check front to back adjustment measure from the bottom edge of the deck to the ground at both front and rear of the deck.

TO ADJUST MOWER FROM FRONT TO BACK

- Remove two hair cotter pins from two clevis pins in the tow bar adjustment.. (See Fig. 4)
- Remove two clevis pins from tow bar adjustment.
- Raise or lower the tow bar to obtain the proper front to back adjustment.
- Reassemble two clevis pins to tow bar adjustment and secure with two hair cotter pins.

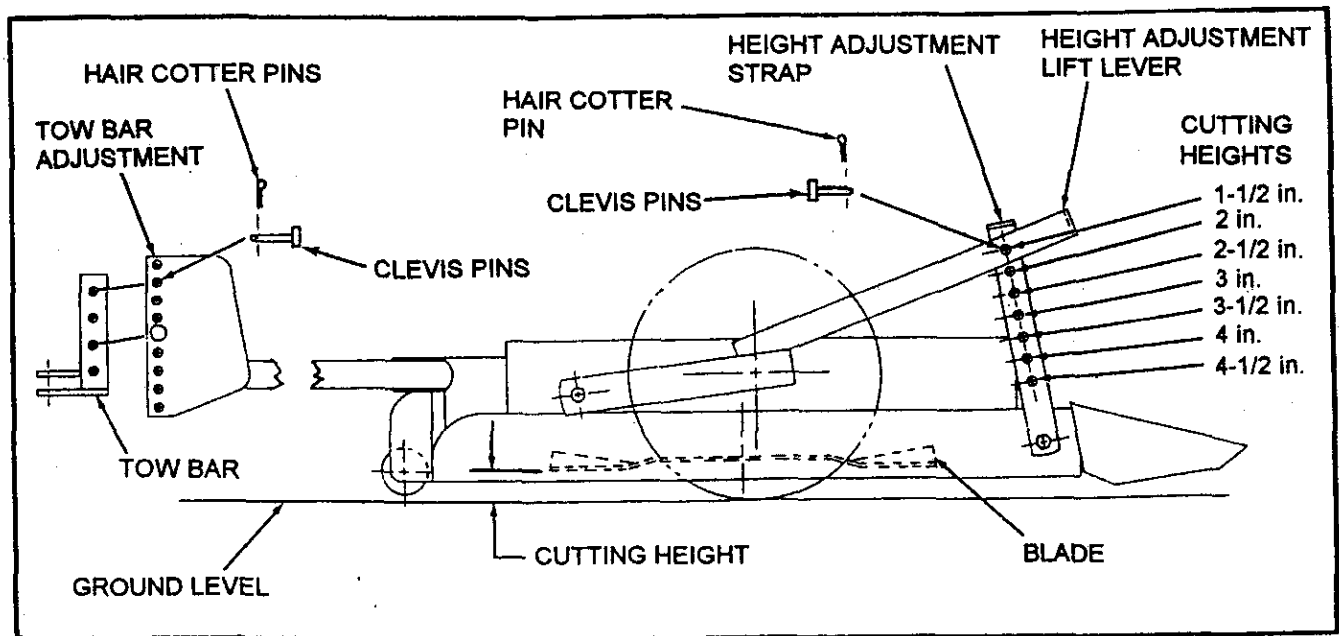


FIG. 4

TOW HITCH OFFSET ADJUSTMENT

This tow behind mower has been designed to run offset from the center of the tow vehicle to give additional cutting width.

- The adjustable tow hitch of this mower can be set in the straight position or to either side in one of three offset positions, 15°, 29°, and 39°. (See Fig. 5)
- When cutting with a tow vehicle already equipped with a 42", 46", or 50" mower, we recommend using the 39° offset. When cutting with a tow vehicle equipped with 36", 38", or 40" mower, use the 29° offset position. When cutting heavier grass or when conditions warrant, adjust the mower to the 15° offset position.
- If tow vehicle is not equipped with a mid-mount mower the hitch can be adjusted to a straight position, but we recommend using the offset position to eliminate grass being crushed down by the tow vehicle.

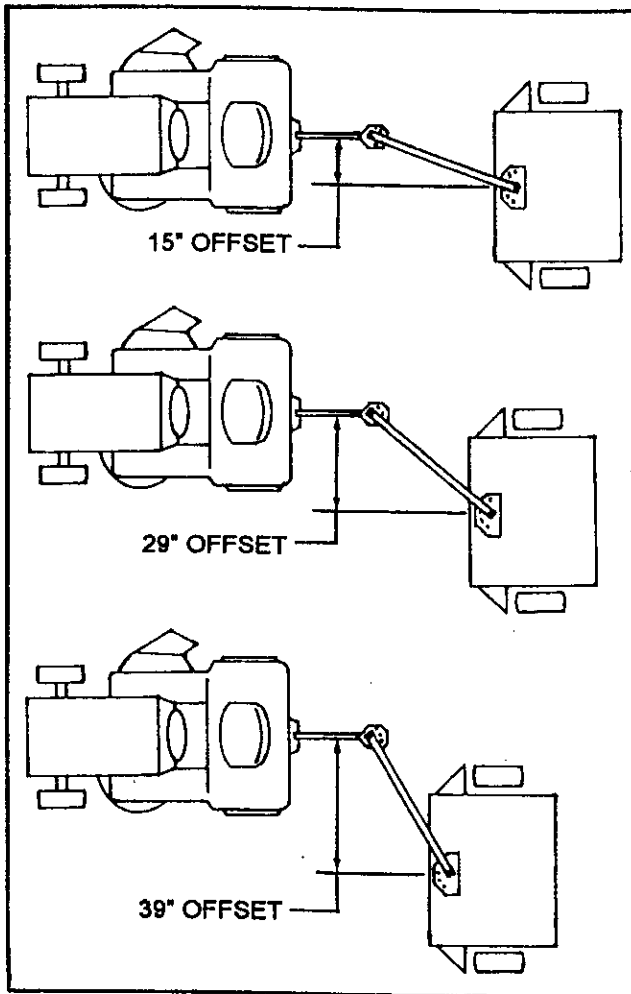


FIG. 5



CAUTION:
Shut off mower engine and remove spark plug wire from spark plug before making any adjustments to mower

TO ADJUST THE OFFSET HITCH

- Pull back the pivot latch from the notch of the front quadrant. Adjust the hitch tube to the desired offset and release the pivot latch into the notch of the quadrant. (See Fig. 6)
- Pull back the pivot latch from the notch of the rear quadrant. Adjust the hitch tube to the corresponding notch of the front quadrant and release the pivot latch into the notch.
- latch into the notch.

IMPORTANT: The hitch tube must be assembled to the same offset notch in both the front and rear quadrants.

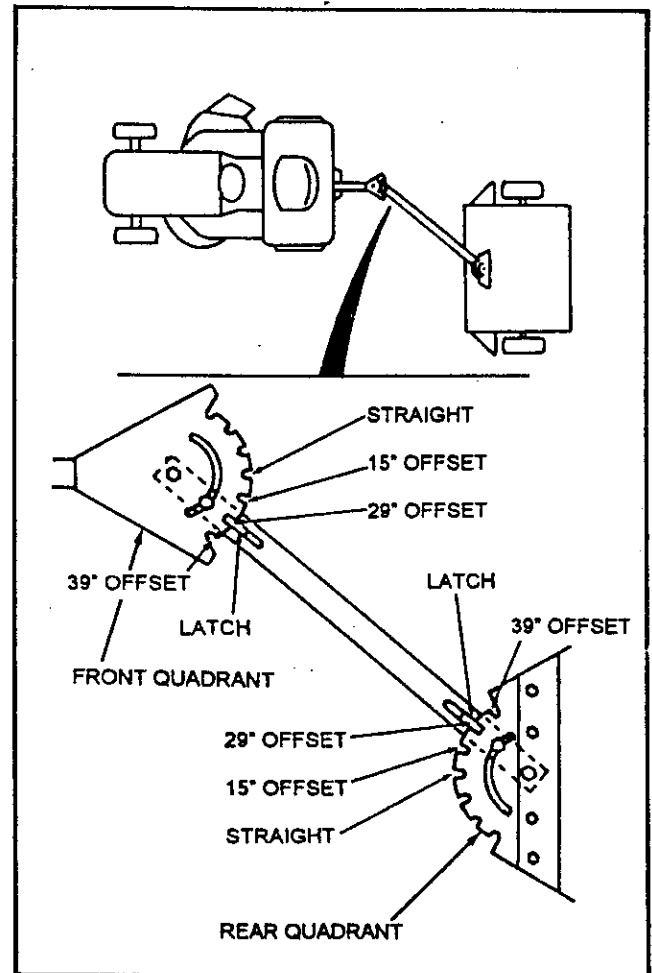


FIG. 6

BEFORE STARTING ENGINE

- Fill engine with oil. (See Maintenance Section of this manual for proper procedure and requirements)
- Add Gasoline. Fill Fuel tank using fresh clean unleaded gasoline.



CAUTION:
Fill to bottom of fuel tank filler neck. Do not overfill. Wipe off any spilled oil or fuel. Do not store, spill or use gasoline near open flame.

TO START ENGINE



CAUTION:
Keep the blade clutch lever in "Disengaged" position when starting engine.

- Make sure spark plug wire is properly connected.
- Place choke control in "CHOKE" position if the engine is cold. A warm engine may not require choking to start.
- Move engine throttle to full position.
- Grasp starter handle with one hand. Pull rope out slowly until engine reaches start of compression cycle (rope will pull slightly harder at this point).
- Pull rope with a rapid, continuous, full arm stroke.
- Keep a firm grip on starter handle and let rope rewind slowly. Do not let starter handle snap back against starter.
- When engine starts move choke to open position.
- Allow engine to warm up for a few minutes before engaging blades.

NOTE: If at a high altitude (above 3000 feet) or in cold temperatures (below 32°F), the carburetor fuel mixture may need to be adjusted for best performance. See Service and Adjustments section of the engine manual.

BREAKING IN YOUR MOWER

Break in your belts, pulleys and engine before you actually begin mowing.

- Start engine, engage blade control to start blades rotating and allow blades to rotate approximately five minutes to break in mower and engine.



CAUTION:
Check area under and around mower for any objects that could be thrown from under mower. Make sure that mower discharge area is clear.

MOWING PROCEDURES



CAUTION:
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.



CAUTION:
Never carry children. They may fall off and be seriously injured or interfere with safe operation.

- Mowing should be started with tractor in low gear and speed increased only as mowing conditions will safely permit.
- Mower will perform at its best when engine throttle is set for full throttle.
- You will obtain better mowing results in grassy areas if they are mowed when the grass is approximately 4" to 5" maximum height. While your mower will cut grass taller than 5", you will notice a substantial increase in engine power required and some change in the finished appearance of the area mowed.
- Mowing conditions will vary from place to place, including the types of grass which are being mowed, such as fine stalk, coarse stalk, dense or sparse grasses. When mowing tall grass you may find that the pressure of wheel tracks may cause certain grasses to be pushed downward so they will not be mowed properly. If this condition exists you may have to mow the area twice, the first mowing with the mower raised and the second mowing at the desired height that you have chosen. If it is practical, you will achieve better results if the second mowing is a right angle in travel to the previous mowing.
- Do not mow grass when it is wet. Wet grass will plug mower and leave undesirable clumps. Allow grass to dry before mowing.
- Always operate mower engine at full throttle when mowing to assure better mowing performance and proper discharge of material. Regulate ground speed by selecting a gear low enough to give the best cutting performance and quality of cut.
- When operating any attachment select a ground speed that will suit the terrain and give the best performance for the attachment being used.
- When mowing slopes, always mow them up and down at slow speed. Never mow across slopes. See Slope Operation section of Safety Rules for further instruction on slope mowing.

MAINTENANCE

GENERAL RECOMMENDATIONS

The warranty on this attachment 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. All adjustments in the Service and Adjustments section of this manual should be checked at least once each season.

Once a year you should replace the spark plug, clean or replace air filter, and check blades and belts for wear. A new spark plug and clean air filter assure proper air-fuel mixture and help your engine run better and last longer.

BEFORE EACH USE

- Check engine oil level.
- Check for loose fasteners

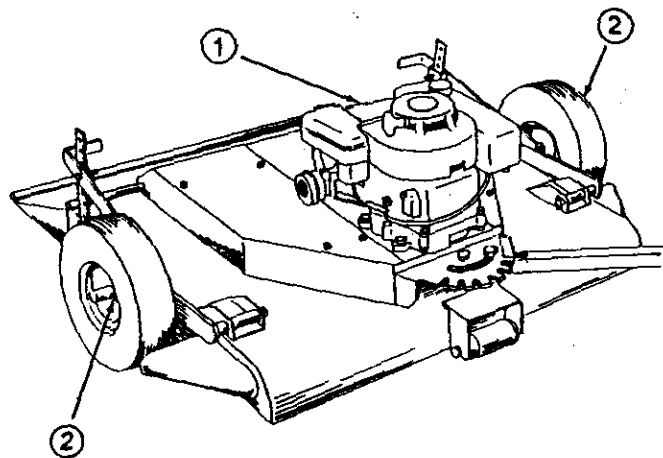
MAINTENANCE SCHEDULE FILL IN DATES AS YOU COMPLETE REGULAR SERVICE	BEFORE EACH USE FIRST 2 HOURS EVERY 5 HOURS EVERY 25 HOURS OR EACH YEAR				SERVICE DATES																	
Check Engine Oil Level	✓		✓																			
Change Engine Oil		✓		✓ ¹ 2																		
Inspect Spark Arrester Muffler				✓																		
Inspect Air Screen	✓																					
Check and Clean Air Cleaner			✓																			
Replace Air Cleaner Cartridge				✓ ²																		
Clean Engine Cylinder Fins				✓																		
Replace Spark Plug				✓																		
Lubricate Spindles (2)				✓																		

- 1 - Change more often when operating under a heavy load or in high climate temperatures.
 2 - Service more often when operating in dirty or dusty conditions.

LUBRICATION

- ① REFER TO ENGINE MAINTENANCE SECTION OF THIS MANUAL.
- ② GENERAL PURPOSE GREASE

IMPORTANT: Do not oil or grease pivot points. Viscous lubricants will attract dust and dirt that can cause wear on pivot points. If you feel they must be lubricated, use only a dry powdered graphite type lubricant.





Disconnect spark plug wire before performing any maintenance (except carburetor adjustment) to prevent accidental starting of engine.

Prevent fires! Keep the engine free of grass, leaves, spilled oil, or fuel. Remove fuel from tank before tipping unit for maintenance. Clean muffler area of all grass, dirt and debris.

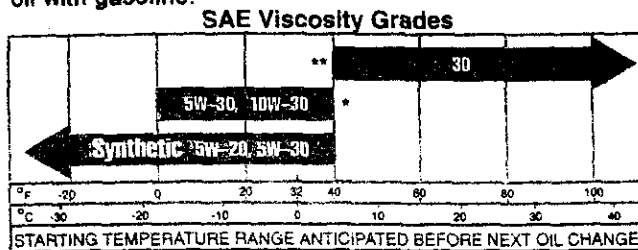
Do not touch hot muffler or cylinder fins as contact may cause burns.

ENGINE

LUBRICATION

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

Change and add oil according to chart below. Do not overfill. Use a high quality detergent oil classified "For Service AF, SG, SH," such as Briggs & Stratton "warranty certified" SAE 30 oil, Part No. 100005. Use no special additives with recommended oils. Do not mix oil with gasoline.



* Air cooled engines run hotter than automotive engines. The use of multi-viscosity oil (such as 10W-30, Etc.) in ambient temperatures above 40° F (4° C) will result in higher than normal oil consumption. If multi-viscosity oil is used, check the oil level more frequently to prevent any possible engine damage due to lack of lubrication.

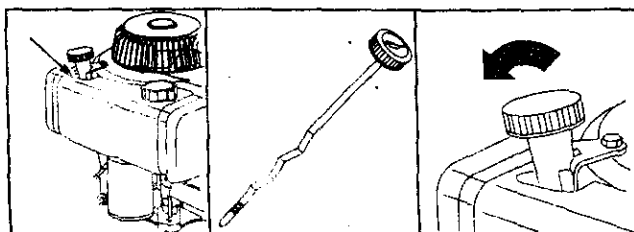
** Use of SAE 30 oil below 40° (4° C) will result in hard starting and possibly engine damage due to inadequate lubrication.

CHECK OIL LEVEL BEFORE STARTING ENGINE

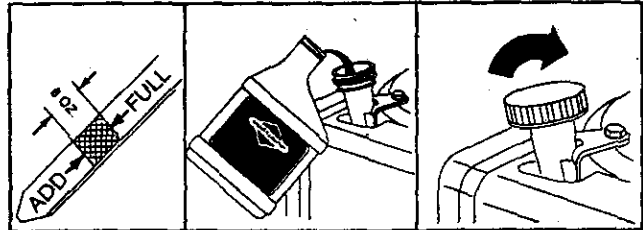
Add oil as shown below.

Oil capacity of Model Series 190000 is about 1-1/8 quarts (36 ounces or 1.1 liters).

After filling with or changing oil, start and run engine at idle for 30 seconds. Shut off engine. Wait 30 seconds and check oil level. Add oil if required, to bring to Full mark on dipstick.



Place engine level. Remove dipstick. Tighten dipstick. Clean around dipstick. Fill with clean cloth. Remove & check.

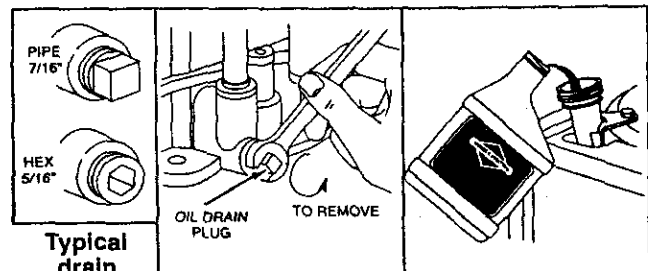


Fill to FULL mark on dipstick. If oil is required, add slowly. Recheck level before starting engine. Tighten dipstick before starting engine.

CHANGING OIL (Follow Maintenance Schedule.)

Change oil after first 5 hours of operation. Change oil while engine is warm.

Remove drain plug and drain oil. Replace and tighten drain plug. Remove dipstick and refill with new oil of recommended grade (see chart, page 13A). Start and run engine at idle for 30 seconds. Stop engine. Wait 30 seconds and re-check oil level. If required, add oil to bring level to FULL mark on dipstick.



Typical drain plugs

Oil drain

Oil fill

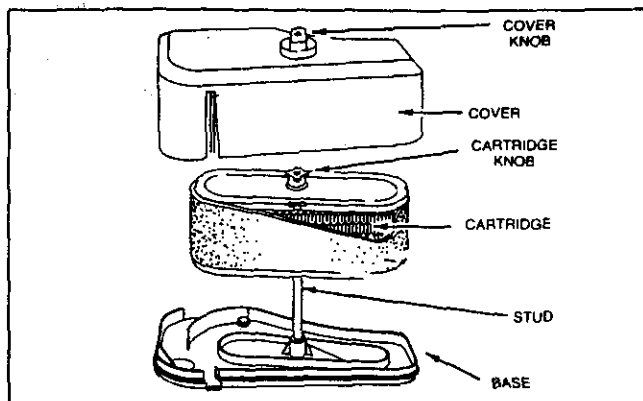
CHECK AND CLEAN AIR FILTER

- Remove cover knob and cover.
- Remove cartridge knob. Carefully lift cartridge from base over stud..
- Clean base carefully to prevent debris from entering carburetor.

To service cartridge, clean by tapping gently on a flat surface. Do not oil cartridge. Replace if very dirty or damaged.

NOTE: Do not use petroleum solvents, e.g., kerosene, which will cause the cartridge to deteriorate. Do not use pressurized air to clean cartridge. Pressurized air can damage the cartridge.

- Reassemble cartridge over stud on base. Tighten cartridge knob securely.
- Replace cover and tighten cover knob securely.

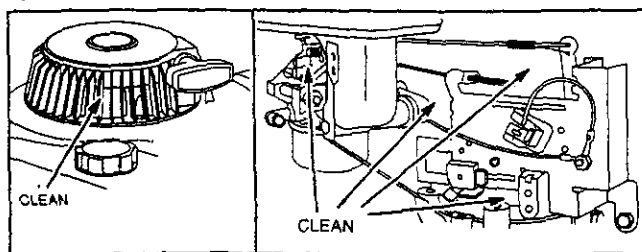


Dual element air cleaner

KEEP ENGINE AND PARTS CLEAN

Do not clean with a forceful spray of water because water could contaminate fuel system. With a brush or cloth, remove grass, chaff or debris from finger guard daily (more often if needed) to prevent engine damage caused by overheating.

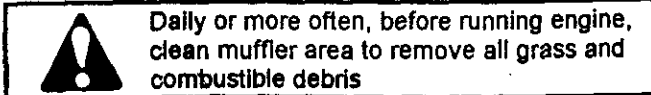
To assure smooth operation, keep governor linkage, springs and controls free of debris.



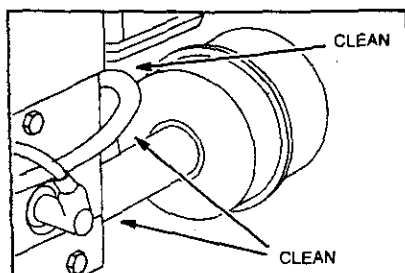
Finger guard

Linkage, springs & controls

If engine muffler is equipped with a spark arrester screen, remove for cleaning and inspection. Replace if damaged or plugged. See an authorized Briggs & Stratton Service Dealer for correct replacement.

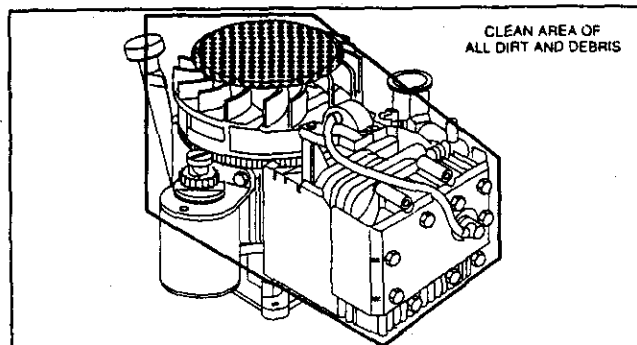


Daily or more often, before running engine, clean muffler area to remove all grass and combustible debris



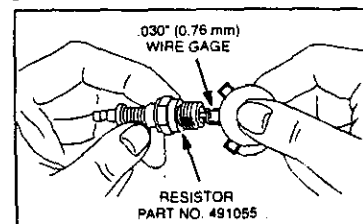
Muffler and spark arrester

Grass, chaff or debris may clog the air cooling system, especially after a prolonged operation cutting tall, dry grass. Remove blower housing and clean area shown to prevent overheating and engine damage. Clean more often if necessary.



Air cooling system

Replace spark plug. Do not blast clean. Clean by scraping or wire brushing and washing with a commercial solvent.



Spark plug

NOTE: In some areas, local law required using resistor spark plug to suppress ignition signals. If this engine was originally equipped with resistor spark plug, use same type for replacement.

REMOVE COMBUSTIBLE DEPOSITS

Remove cylinder head every 100-300 hours of operation. Scrape and wire brush combustion deposits from cylinder, cylinder head, top of piston and around valves. Use a soft brush to remove deposits. Reassemble gasket and cylinder head. Turn screws down finger tight. Torque cylinder head screws in a staggered sequence to 165 in. Lb. (19 Nm).

GENERAL CLEANING

- Clean engine, finished surfaces and wheels free of gasoline, oil and all foreign matter.
- Protect painted surfaces with automotive type wax.

We do not recommend using a garden hose to clean your unit unless the muffler, air filter and carburetor are covered to keep water out. Water in engine can result in a shortened engine life.

MUFFLER

Do not operate mower without muffler. Do not tamper with exhaust system. Damaged muffler or spark arrester could create a fire hazard. Inspect periodically and replace if necessary. If your engine is equipped with a spark arrester screen assembly, remove every 50 hours for cleaning and inspection. Replace if damaged.

SERVICE AND ADJUSTMENTS

BLADE CARE

- For best results mower blades must be kept sharp. The blades can be sharpened with a few strokes of a file or on a grinding wheel. Do not attempt to sharpen while blades are on mower.
- To remove blade for sharpening, use wooden block to hold blade while removing the blade mounting nut. The nuts have right hand threads. (See Fig. 7)

CAUTION:
Do not handle mower blades with bare hands. Careless or improper handling may result in serious injury.

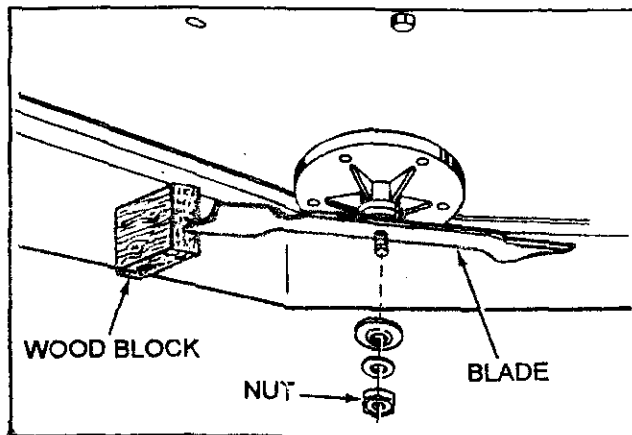


FIG. 7

- When grinding, take care to maintain blade balance. Check blade for proper balance before reinstalling to mower.
- To check and balance blade use a balancing machine or fixture as shown in figure 8. File material off heavier end of blade until it is balanced.

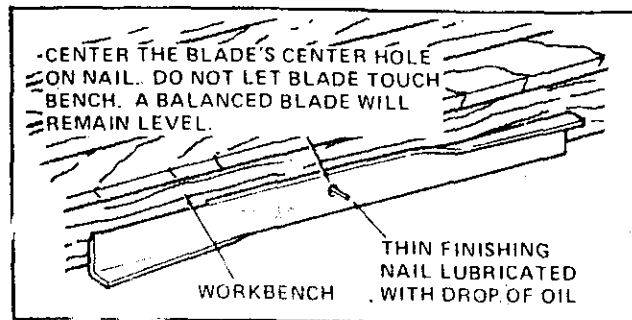


FIG. 8

To a satisfactory operation, we recommend that you discard old blades and replace them with new ones before the start of each mowing season.

NOTE: Check nuts and blades occasionally to make sure nuts are tight.

CAUTION:
Shut off mower engine and remove spark plug wire from spark plug before making any adjustments or repairs to mower.

CARBURETOR ADJUSTMENTS

CAUTION:
The manufacturer of the equipment on which this engine is installed specifies top speed at which the engine will be operated. DO NOT EXCEED this speed.

Differences in fuel, temperature, altitude or load may require minor carburetor adjustment. Air Cleaner and air cleaner cover must be assembled to carburetor before starting engine.

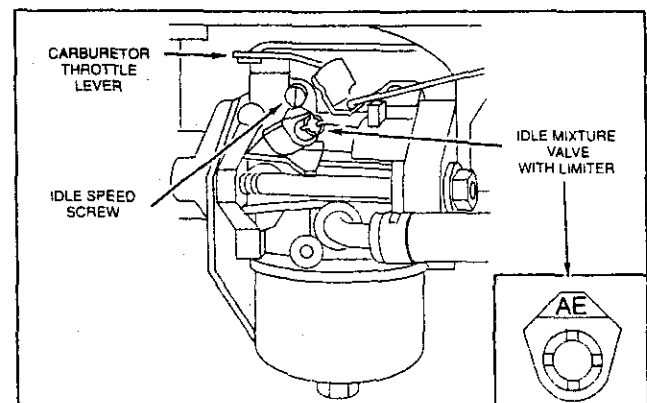
The carburetor on this engine is low emission. It is equipped with an idle mixture valve with a limiter (see inset), which allows some adjustment, and an idle speed adjustment screw.

ADJUSTMENTS

Start engine and warm up approximately 5 minutes before adjusting. With engine running, place throttle control in SLOW position. Rotate carburetor throttle lever against the idle speed screw and hold it. Turn idle speed screw to obtain 1750 rpm.

Rotate idle mixture valve full travel clockwise and then counter clockwise. Finally, position idle mixture valve in middle of travel. Check idle speed and re-adjust to 1750 rpm, if necessary.

Move throttle control to FAST position. Engine should accelerate smoothly. If it does not, adjust idle mixture valve counterclockwise 1/8 turn.



Carburetor adjustments

BELT REPLACEMENT



CAUTION:
Disconnect spark plug wire from spark plug before replacing V-belt.

- Move Blade Clutch Lever to the "DISENGAGED" position.
- Remove two belt covers. (See Fig. 9)
- Loosen three bolts and pivot belt guides away from pulleys.
- Move belt brake away from spindle pulleys, and remove V-belt from around two spindle pulleys.
- Remove V-belt from around engine pulley.
- Disconnect small spring from idler arm.
- Grasp body of large idler spring and pull spring to the right side of mower until idler pulley is against spindle pulley.
- Remove V-belt from idler pulley.
- Place new V-belt onto idler pulley and release large spring to allow idler to return to original position.
- Reconnect small spring to idler arm.
- Assemble V-belt around engine pulley.
- Move belt brake away from spindle pulley; then assemble V-belt onto spindle pulleys.
- Place Blade Clutch Lever into "ENGAGED" position.
- Reposition three belt guides to original position with approximately 1/16 inch clearance from pulleys and retighten bolts to secure belt guides.

NOTE: Belt Guides should not touch V-belt or pulleys when unit is in engaged position.

- Reassemble two belt covers and return Blade Clutch Lever to "DISENGAGED" position.

CHECKING DRIVE TENSION

- Remove V-belt cover from right side of unit.
- Place Blade Control Lever in the "ENGAGED" position.
- Check tension spring length. It should be 5-3/8" to 5-5/8" over the coils of the Spring Body. See Figure 9.

ADJUSTING DRIVE TENSION

To Increase Drive Spring Tension

- Place blade clutch lever in the "DISENGAGED" position.
- Loosen the inner nut of the clutch cable.
- Tighten the outer nut to increase spring tension.

NOTE: For every 1/8" adjustment made to the cable you will get approximately 1/8" movement on the tension spring.

To Decrease Drive Spring Tension

- Place blade clutch lever in the "DISENGAGED" position.
- Loosen the outer nut of the clutch cable.
- Tighten the inner nut to decrease spring tension.

CLEANING THE MOWER

Water pressure from a garden hose will remove fresh clippings from the underside of the mower. Clean mower after each mowing.

DAILY MAINTENANCE

Make sure all nuts and bolts are tight, cotter pins and retainer springs are secure. Keep blades sharp. Observe all safety precautions. Keep mower well lubricated.

REPAIR PARTS

Your rotary mower has been produced with components designed for your unit. Although standard V-Belts, bearings, blades, pulleys, etc. may look like parts used on your rotary mower, many are of a different construction and could in some cases cause the mower to malfunction.

For continued satisfactory performance use only repair parts supplied by the manufacturer. See your Sears Service Center for replacement parts.

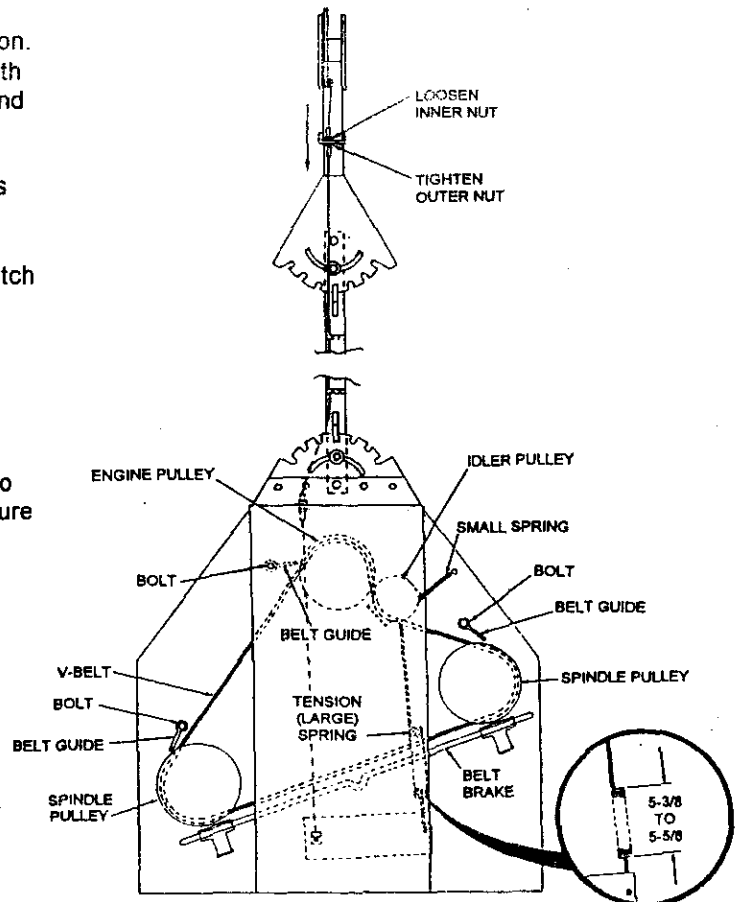


FIG. 9

SERVICE NOTES

DATE: SERVICE:	DATE: SERVICE:
DATE: SERVICE:	DATE: SERVICE:
DATE: SERVICE:	DATE: SERVICE:
DATE: SERVICE:	DATE: SERVICE:
DATE: SERVICE:	DATE: SERVICE:
DATE: SERVICE:	DATE: SERVICE:

STORAGE

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

MOWER

When the 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 mower. See "CLEANING" below.
- 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.

CLEANING

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



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

- Clean the underside of your mower by scraping to remove build-up of grass and trash.
- Keep finished surfaces and wheels free of all gasoline, oil, etc.
- Do not use a garden hose to clean mower.

ENGINE

- 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 drain the gas tank and carburetor if using fuel stabilizer.

ENGINE OIL

Drain oil when engine is shut off but still warm.

CYLINDER

- Remove spark plug.
- Pour one ounce (29 ml) of oil through spark plug hole into cylinder.
- Pull starter handle slowly a few times to distribute oil.
- Install 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 give protection 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 causes condensation to form that will rust your mower.

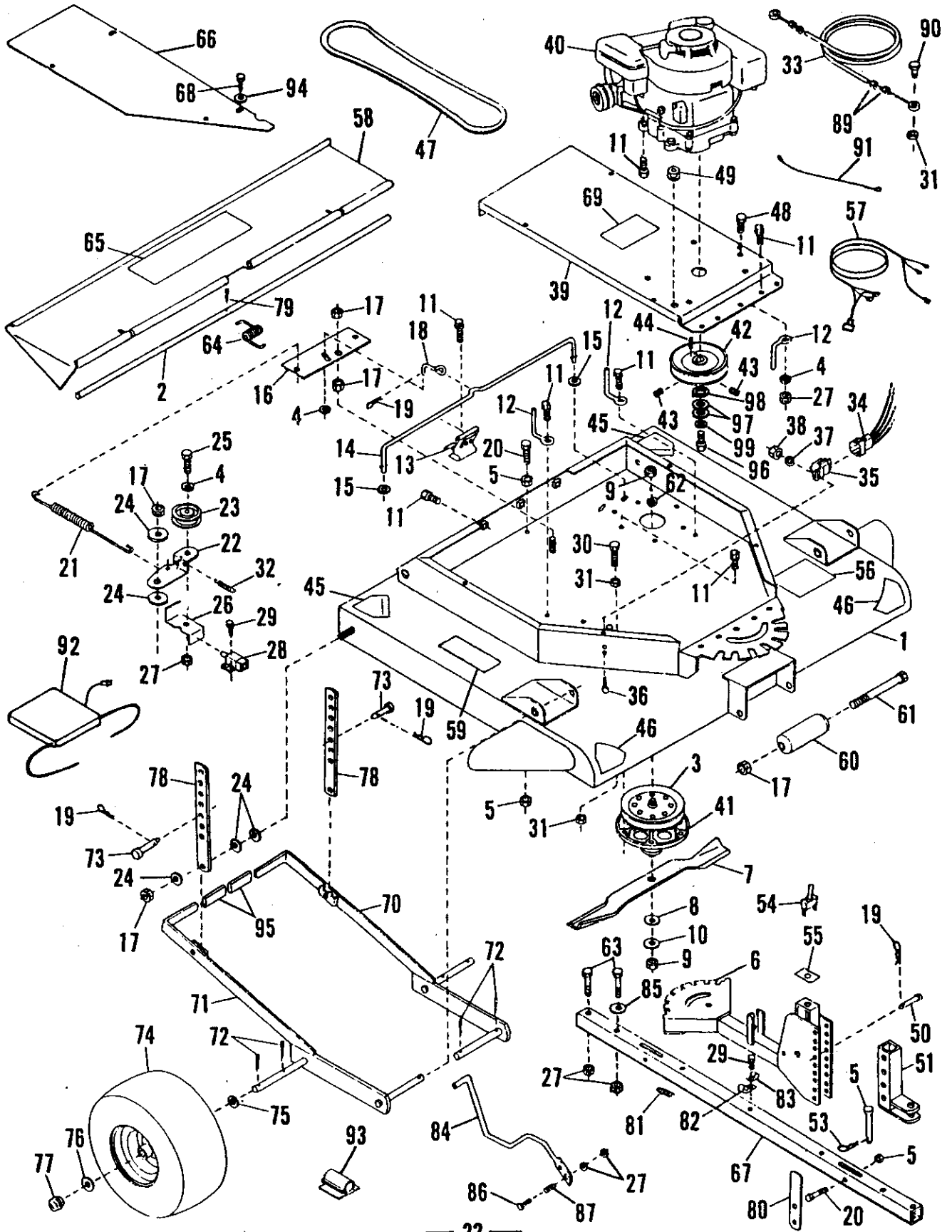


CAUTION: Never cover mower while engine and exhaust are still warm. Cover may ignite causing a fire.



CAUTION: Never store the 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.

42" TOW BEHIND MOWER - MODEL NO. 486.243291

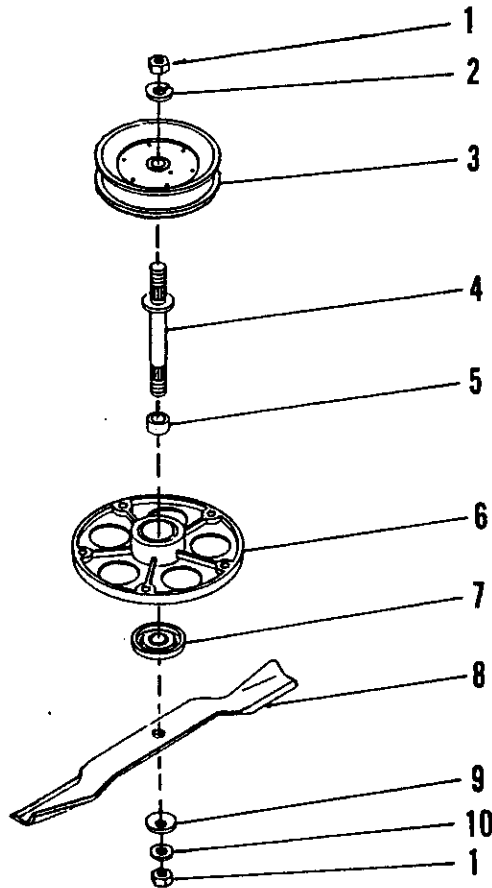


42" TOW BEHIND MOWER - MODEL NO. 486.243291

Item No.	Part No.	Description	Qty. Req.	Item No.	Part No.	Description	Qty. Req.
1.	HA23834	Mower Deck Pan	1	67.	HA23526	Hitch Tube	1
2.	HA23598	Rod- Deflector Mounting	1	68.	HA15683	Self Tapping Screw	8
3.	HA23343	Pulley	2	69.	HA12314	Danger Decal	1
4.	HA446363*	Washer, 3/8" x 7/8" x .08"	3	70.	HA22996	Left Hand Wheel Mounting Bracket	1
5.	43064*	Nut - 5/16-18 Hex Lock	4	71.	HA22997	Right Hand Wheel Mounting Bracket	1
6.	HA23519	Hitch Assembly	1	72.	HA103407	Cotter Pin	8
7.	HA23516	Mower Blade	2	73.	HA23638	Clevis Pin	2
8.	HA23246	Belleville Washer	2	74.	HA24350	Wheel	2
9.	HA124634*	Nut, 9/16-18 Hex	4	75.	HA456151	Flat Washer, 13/16" x 1-1/2" x .134"	2
10.	HA20129	Flat Washer	2	76.	HA23263	Flat Washer	2
11.	HA23193	Screw, 3/8-16 x 1-1/4 Thread Forming	25	77.	HA23229	Hub Cap	2
12.	HA22981	Belt Guide	3	78.	HA23646	Height Adjustment Strap	2
13.	HA23194	Brake Spring Assembly	2	79.	44101*	Cotter Pin, 3/32" x 3/4"	1
14.	HA22987	Brake Rod	1	80.	HA24441	Strap, Latch	2
15.	HA120389	Washer, 1/2" x 1-1/4" x .083"	2	81.	HA20186	Spring, Latch	2
16.	HA23518	Clutch Bellcrank	1	82.	HA23760	Clip - Hose/Cable 1/2"	3
17.	43262*	Nut, 1/2-13 Hex Lock	6	83.	HA23761	Clip - Hose/Cable 3/8"	3
18.	HA22948	Brake Release Rod	1	84.	HA23527	Lever - Clutch	1
19.	HA3430	Hair Cotter Pin	5	85.	HA15200	Washer, 13/32" x 1-3/16" x 3/16"	2
20.	44180	Bolt, 5/16-18 x 2" Hex Head Grade 5	3	86.	43062*	Bolt, 3/8-16 x 1-1/2" Hex Head	1
21.	HA23196	Idler Tension Spring	1	87.	HA19445	Spring	1
22.	HA23258	Idler Bracket	1	89.	HA120368*	Nut, 5/16-24 Hex	4
23.	HA15015	Idler Pulley	1	90.	43012*	Bolt, 1/4-20 x 3/4" Hex Head	2
24.	HA6979	Flat Washer	8	91.	HA23832	Wire	1
25.	41576*	Bolt, 3/8-16 x 1-3/4" Hex Head	1	92.	HA23586	Operator's Presence Seat	1
26.	HA23197	Interlock Bracket	1	93.	HA11947	Cord Clip	2
27.	43082*	Nut, 3/8-16 Hex Lock	4	94.	43088	Washer, 1/4" Std.	4
28.	HA17322	Interlock Switch	1	95.	47707	Grip - Handle	2
29.	HA9411666*	Screw, #10-16 x 1/2" Self Tapping	8	96.	HA181668*	Bolt, 7/16-20 x 1-1/4" Hex Head	1
30.	43648*	Bolt, 1/4-20 x 1-1/2" Hex Head	1	97.	HA4143	Washer, 1" x 13/16" Thick	2
31.	HA4119*	Nut, 1/4-20 Hex Lock	4	98.	43601	Washer, 1.59" x 1.032" x .06"	1
32.	HA3293	Extension Spring	1	99.	HA120389	Washer, 1/2" x 1-1/4" x .083"	3
33.	24617	Clutch Cable	1	NP	HA24059	Manual - Operator's	
34.	HA23253	Module Connector	1				
35.	HA23252	Module	1				
36.	HA159920*	Screw, #10-24 x 1/2" Pan Head	2				
37.	HA120217*	Washer, #10 Med. Lock	2				
38.	HA120361*	Nut, #10-24 Hex	2				
39.	HA23513	Engine Mounting Plate	1				
40.	HA24010	8 HP Engine	1				
41.	HA23241	Spindle Assembly	2				
42.	HA22994	Pulley	1				
43.	HA115321*	Set Screw, 5/16-18 x 5/16" Socket Hd.	2				
44.	HA3073	Square Key	1				
45.	HA17285	Danger Decal	2				
46.	HA12315	Danger Decal	2				
47.	HA22980	V-Belt	1				
48.	43001*	Bolt, 3/8-16 x 1" Hex Head	1				
49.	HA19484	Rubber Grommet	1				
50.	HA23636	Clevis Pin	2				
51.	HA23644	Towbar Assembly	1				
52.	HA20988	Hitch Pin	1				
53.	HA3341	Hair Cotter Pin	1				
54.	HA22759	On/Off Switch	1				
55.	HA23262	Decal - Engine Shut Off	1				
56.	HA23647	Clutch Lever Decal	1				
57.	HA23612	Wire Harness	1				
58.	HA23597	Deflector	1				
59.	HA23755	Decal - Operation	1				
60.	HA12138	Mower Roller	1				
61.	HA126145*	Bolt, 1/2-13 x 7" Hex Head	1				
62.	HA120898*	Washer, 9/16" Lock	2				
63.	43432*	Bolt, 3/8-16 x 2-1/2" Hex Head	4				
64.	HA12988	Deflector Spring	1				
65.	HA20710	Sears Logo Decal	1				
66.	HA23645	Belt Cover	2				

*Standard Hardware - Purchased Locally

42" TOW BEHIND MOWER - MODEL NO. 486.243291

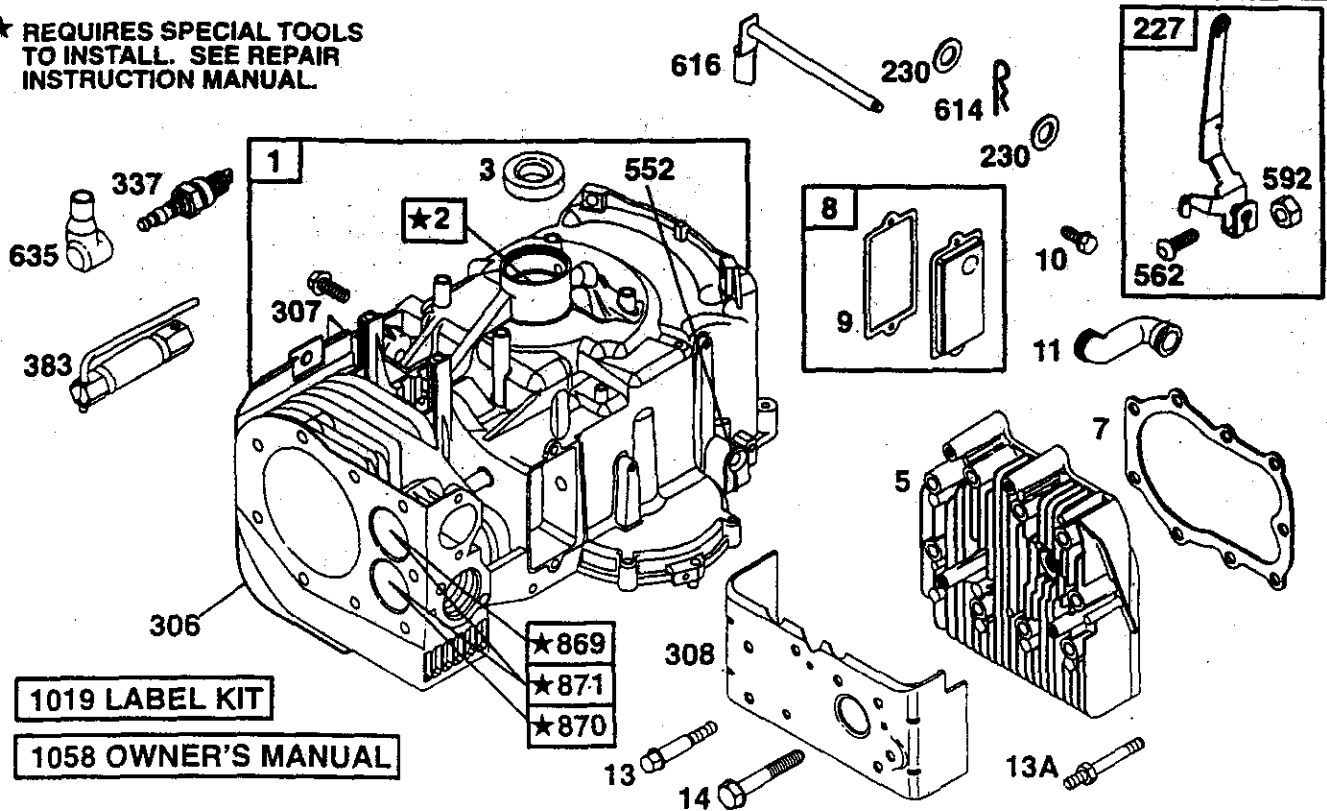


Item No.	Part No.	Description	Qty. Req.
1.	HA124634*	Nut, 9/16-18 Hex	2
2.	HA120898*	Washer, 9/16 Lock	1
3.	HA23343	Pulley	1
4.	HA23243	Jackshaft	1
5.	HA23244	Spacer	1
6.	HA23242	Housing & Bearing Assembly	1
7.	HA23245	Blade Adapter	1
8.	HA23516	Mower Blade	1
9.	HA23246	Belleville Washer	1
10.	HA20129	Thrust Washer	1

*Standard Hardware - Purchased Locally

42" TOW BEHIND MOWER - MODEL NO. 486.243291

★ REQUIRES SPECIAL TOOLS TO INSTALL. SEE REPAIR INSTRUCTION MANUAL.



REF. NO.	PART NO.	DESCRIPTION	REF. NO.	PART NO.	DESCRIPTION	REF. NO.	PART NO.	DESCRIPTION
1	495623	Cylinder Assembly	227	493935	Lever—Governor	869	211661	Seat—Valve (Intake)
2	495657	Bushing	230	94927	Washer—Lever	870	262924	Seat—Valve (Exhaust)
3	★391086	Seal—Oil	306	496797	Shield—Cylinder	871	261961	Bushing—Guide (Exhaust Valve)
5	214015	Head—Cylinder	307	94930	Screw—Hex.	— Note —		
7	∅★272163	Gasket—Cylinder Head	308	224896	Cover—Cylinder	231218		Bushing—Guide (Intake Valve)
8	495735	Breather Assembly	337	802592	Plug—Spark	1019	491182	Label Kit
9	∅★27803	Gasket—Breather	383	89838	Wrench—Spark Plug	1058	273861	Owner's Manual
10	94621	Screw—Hex.	552	491986	Bushing—Gov. Crank			
11	280005	Tube—Breather	562	94907	Bolt—Governor Lever			
13	94565	Screw—Hex.	592	231978	Nut—Hex.			
13A	94926	Stud—Hex. Drive	614	93306	Pin—Cotter			
14	94622	Screw—Hex. (3" Long)	616	495157	Crank—Governor			
			635	66538	Boot—Spark Plug			

★ Included in Gasket Set—Part No. 299577.

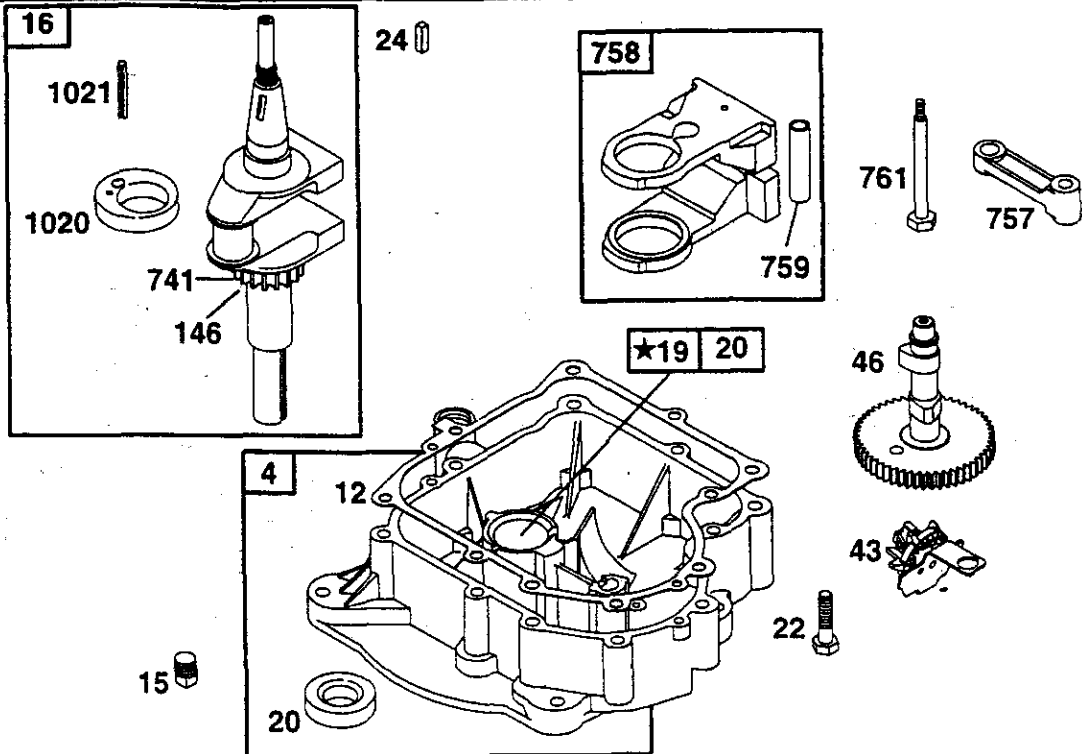
● Included in Carburetor Kit—Part No. 497535.

◆ Included in Carburetor Gasket Set—Part No. 494385.

⊙ Included in Valve Overhaul Gasket Set—Part No. 498536.

Assemblies include all parts shown in frames.

42" TOW BEHIND MOWER - MODEL NO. 486.243291



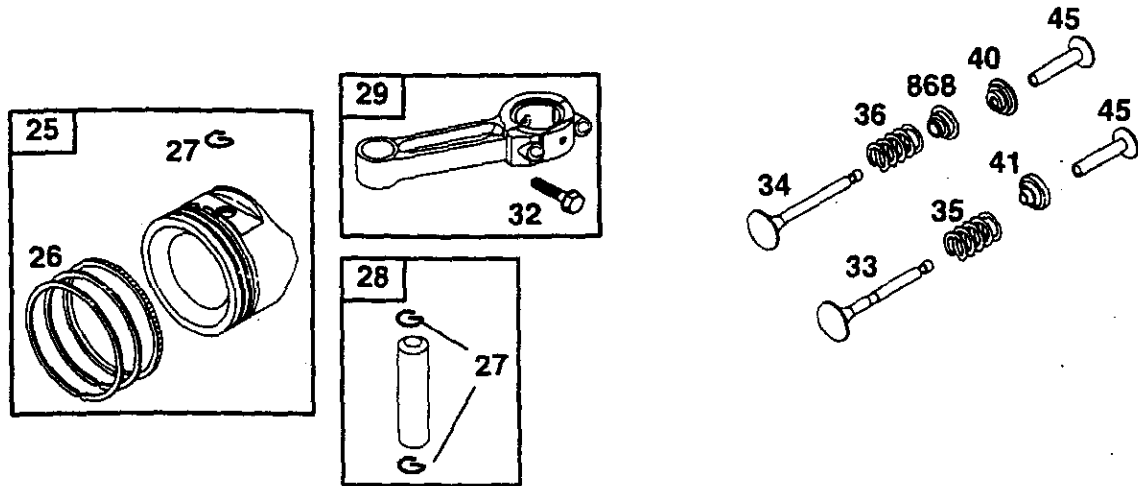
REF. NO.	PART NO.	DESCRIPTION	REF. NO.	PART NO.	DESCRIPTION	REF. NO.	PART NO.	DESCRIPTION
4	392548	Sump-Engine	16	495629	Crankshaft	46	211689	Gear-Cam
12	*271701	Gasket-Crankcase (.015" Thick)	19	295963	Bushing	146	94388	Key-Timing
	*27876	Gasket-Crankcase (.005" Thick)	20	*391086	Seal-Oil	741	263025	Gear-Timing
	*27877	Gasket-Crankcase (.009" Thick)	22	93585	Screw-Hex.	757	213998	Link-Counterweight
15	94239	Plug-Oil Drain			Note	758	390172	Counterweight
			24	222698	Key-Flywheel	759	298909	Pin-Counterweight
			43	491397	Governor-Oil Stinger	761	94592	Screw-Hex
					(Used in Pos. No. 1)	1020	261190	Eccentric
						1021	94160	Pin-Groove

★ Included in Gasket Set-Part No. 299577.
● Included in Carburetor Kit-Part No. 497535.

◆ Included in Carburetor Gasket Set-Part No. 494385.
⊘ Included in Valve Overhaul Gasket Set-Part No. 498536.

Assemblies include all parts shown in frames.

42" TOW BEHIND MOWER - MODEL NO. 486.243291



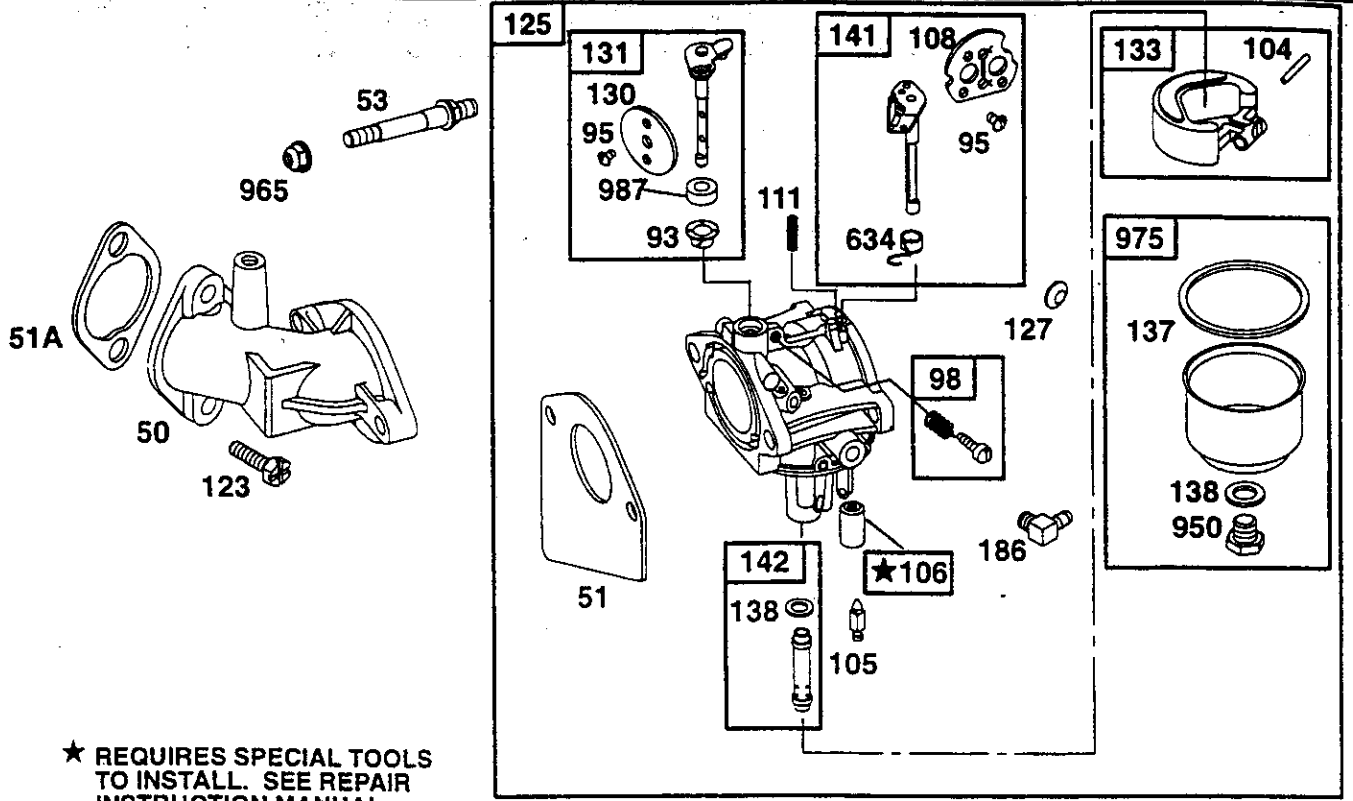
REF. NO.	PART NO.	DESCRIPTION	REF. NO.	PART NO.	DESCRIPTION	REF. NO.	PART NO.	DESCRIPTION
25	499907	Piston Assembly (Standard)	27	263181	Lock-Piston Pin	35	26828	Spring-Valve (Exhaust)
	499908	Piston Assy. (.010" O.S.)	28	499911	Pin-Piston (Standard)	36	65906	Spring-Valve (Intake)
	499909	Piston Assy. (.020" O.S.)		499920	Pin-Piston (.005" O.S.)	40	221596	Retainer-Valve (Intake)
	499910	Piston Assy. (.030" O.S.)	29	390402	Rod-Connecting (Standard)	41	292260	Retainer-Valve (Exhaust)
				390773	Rod-Conn. (.020" Undersize)	45	260933	Tappet
26	499921	Ring Set (Standard)	32	94670	Screw-Connecting Rod	868	497656	Seal-Valve
	391670	Ring Set (.010" O.S.)	33	390420	Valve-Exhaust			
	391671	Ring Set (.020" O.S.)	34	261055	Valve-Intake			
	391672	Ring Set (.030" O.S.)						

★ Included in Gasket Set-Part No. 299577.
 ● Included in Carburetor Kit-Part No. 497535.

◆ Included in Carburetor Gasket Set-Part No. 494385.
 ◊ Included in Valve Overhaul Gasket Set-Part No. 498536.

Assemblies include all parts shown in frames.

42" TOW BEHIND MOWER - MODEL NO. 486.243291



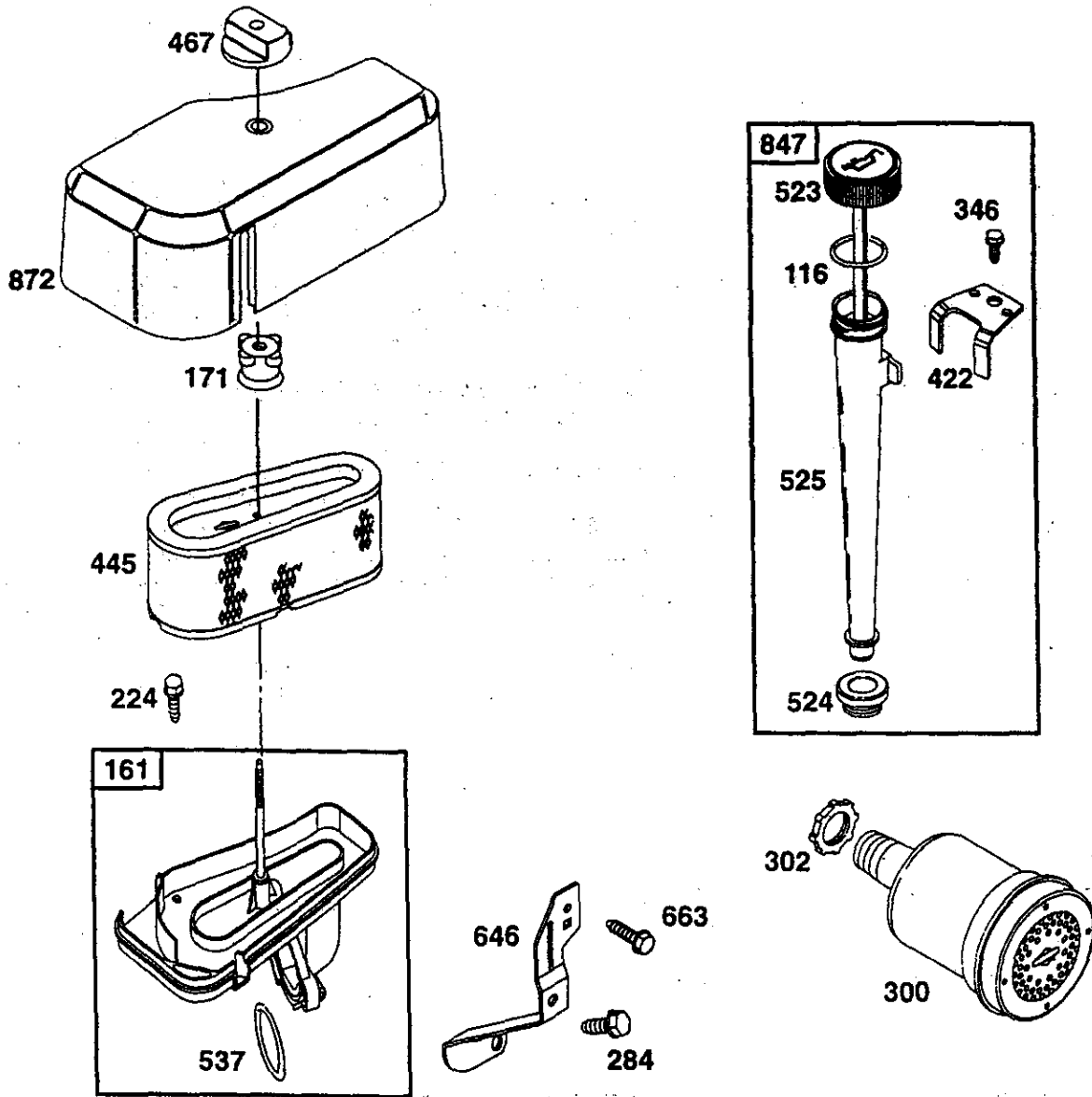
REF. NO.	PART NO.	DESCRIPTION	REF. NO.	PART NO.	DESCRIPTION	REF. NO.	PART NO.	DESCRIPTION
50	213819	Manifold-Intake	111	262715	Spring-Friction	142	690121	Nozzle-Carburetor (Standard)
51	•272465	Gasket-Intake	123	94913	Screw-Torx® Hex.		692688	Nozzle-Carb. (High Altitude)
51A	∅272554	Gasket-Intake	125	692684	Carburetor			
53	94637	Stud-Carb. Mounting	127	•	Plug-Welch (Sold in Kit Only)	186	493496	Connector-Hose
93	281346	Bushing-Throttle Shaft	130	224668	Valve-Throttle	634	•494453	Seal-Spring Assembly
95	•94098	Screw-Round Head	131	494885	Shaft-Throttle	950	94642	Screw-Bowl Mounting
98	495800	Screw-Idle Speed	133	494381	Float-Carburetor	965	94010	Nut-Hex.
104	•231789	Pin-Float Hinge	137	•281165	Gasket-Float Bowl	975	495933	Bowl-Float
105	•231855	Valve-Needle	138	•281164	Washer	987	•281166	Seal-Throttle Shaft
106	•231854	Seat-Inlet	141	495097	Shaft-Choke			
108	224558	Valve-Choke						

★ Included in Gasket Set-Part No. 299577.
 • Included in Carburetor Kit-Part No. 497535.

• Included in Carburetor Gasket Set-Part No. 494385.
 ∅ Included in Valve Overhaul Gasket Set-Part No. 498536.

Assemblies include all parts shown in frames.

42" TOW BEHIND MOWER - MODEL NO. 486.243291



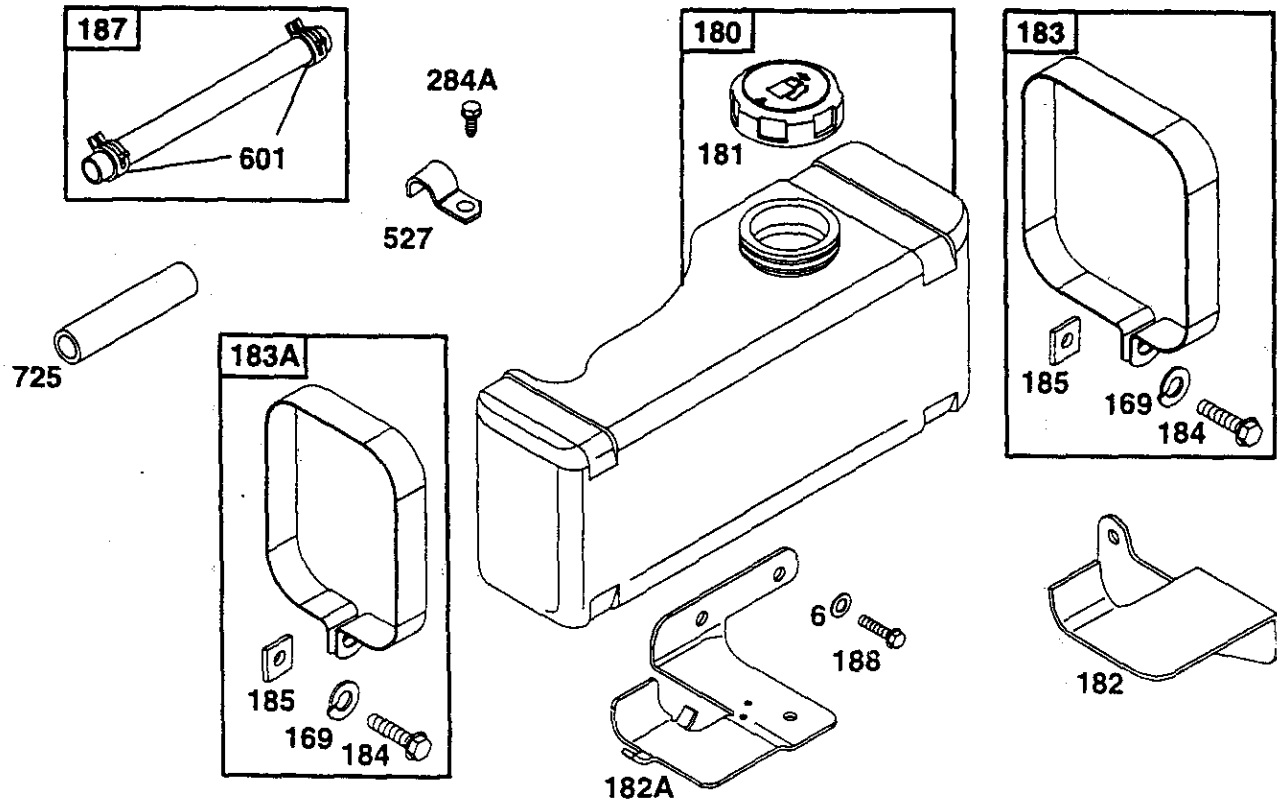
REF. NO.	PART NO.	DESCRIPTION	REF. NO.	PART NO.	DESCRIPTION	REF. NO.	PART NO.	DESCRIPTION
116	*270920	Seal-O-Ring	346	94874	Screw-Hex.	537	*281106	Gasket-Air Cleaner
161	494827	Base-Air Cleaner	422	223394	Bracket-Oil Fill	646	224614	Brace
171	281051	Nut.	445	493910	Filter-Air	663	94929	Screw-Hex.
224	94730	Screw-Hex.	467	493903	Knob-Air Cleaner	847	392066	Dipstick/Tube Assembly
284	94704	Screw-Hex.	523	391840	Dipstick	872	281105	Cover-Air Cleaner
300	393010	Muffler-Exhaust	524	*281370	Seal-Fill Tube			
302	261409	Locknut-Muffler	525	280133	Tube-Oil Fill			
<p>Note: The following part is required by local law in some locations.</p> <p>399541 Spark Arrestor Assembly</p>								

* Included in Gasket Set-Part No. 299577.
 • Included in Carburetor Kit-Part No. 497535.

◆ Included in Carburetor Gasket Set-Part No. 494385.
 Ø Included in Valve Overhaul Gasket Set-Part No. 498536.

Assemblies include all parts shown in frames.

42" TOW BEHIND MOWER - MODEL NO. 486.243291



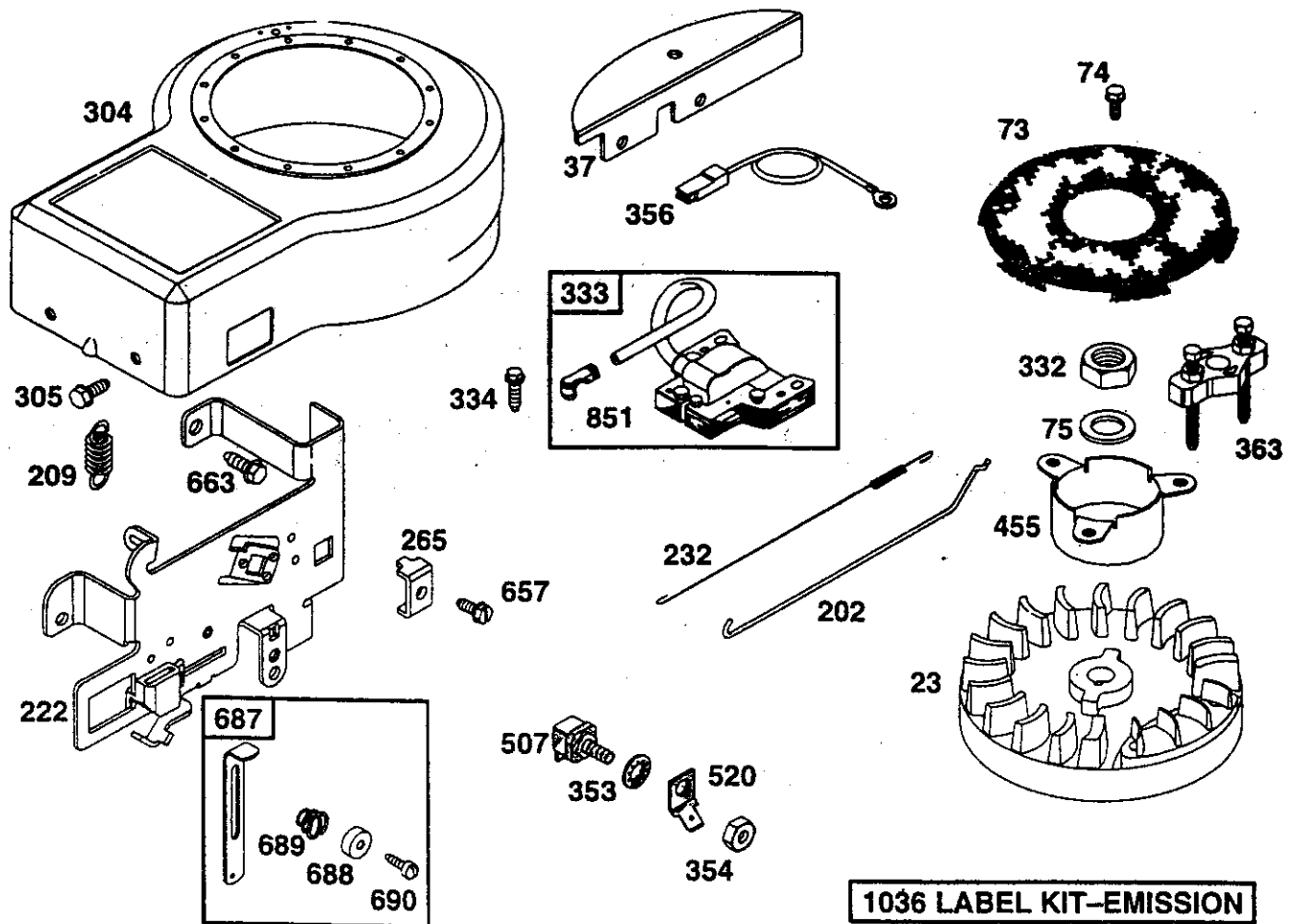
REF. NO.	PART NO.	DESCRIPTION	REF. NO.	PART NO.	DESCRIPTION	REF. NO.	PART NO.	DESCRIPTION
6	22963	Washer-Flat	183	496853	Strap-Fuel Tank (R.H.)	187	296004	Line-Fuel (Cut to Required Length)
169	90832	Washer-Lock	183A	390405	Strap-Fuel Tank (L.H.)	284A	94602	Screw-Hex.
180	390225	Tank-Fuel	184	94286	Screw-Hex.	527	221428	Clamp-Tube
181	493988	Cap-Fuel Tank	185	90970	Nut	601	95162	Clamp-Hose
182	225074	Bracket.-Fuel Tank (R.H.)	184	94627	Screw-Hex.	725	222175	Shield-Heat
182A	224884	Bracket-Fuel Tank (L.H.)						

★ Included in Casket Set-Part No. 299577.
 ● Included in Carburetor Kit-Part No. 497535.

◆ Included in Carburetor Gasket Set-Part No. 494385.
 ⌀ Included in Valve Overhaul Gasket Set-Part No. 498536.

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42" TOW BEHIND MOWER - MODEL NO. 486.243291



1036 LABEL KIT-EMISSION

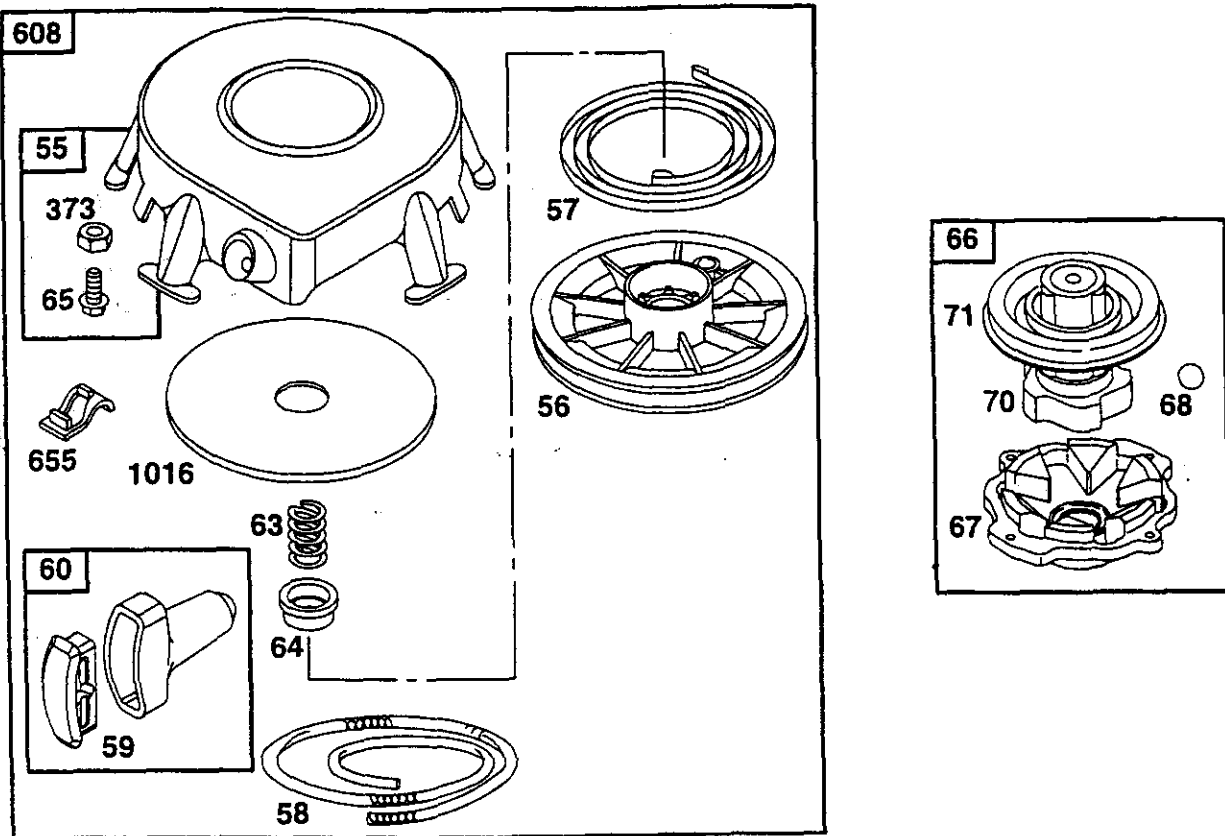
REF. NO.	PART NO.	DESCRIPTION	REF. NO.	PART NO.	DESCRIPTION	REF. NO.	PART NO.	DESCRIPTION
23	298260	Flywheel	304	496832	Housing-Blower	507	398525	Insulator
37	222475	Guard-Flywheel	305	94786	Screw-Hex.	520	93722	Terminal
73	224874	Screen-Rotating	332	92284	Nut-Flywheel	657	94906	Screw-Slotted Hex.
74	94680	Screw-Hex.	333	398811	Armature-Magneto	663	94929	Screw-Hex.
75	225136	Washer	334	94731	Screw-Hex.	667	390701	Slide-Control
202	262769	Link-Mechanical Governor	353	92791	Washer-Lock	688	221766	Cap-Spring
209	260871	Spring-Governor	354	90576	Nut-Hex.	689	260847	Spring-Friction
222	495611	Bracket-Control	356	399223	Wire-Stop	690	90746	Screw-Slotted
232	262787	Spring-Link	363	19165	Flywheel Pulley	851	493880	Terminal-Cable
265	221535	Clamp-Casing	455	222561	Cup-Flywheel	1036	499355	Label Kit-Emission

★ Included in Gasket Set-Part No. 299577.
 ● Included in Carburetor Kit-Part No. 497535.

◆ Included in Carburetor Gasket Set-Part No. 494385.
 ◊ Included in Valve Overhaul Gasket Set-Part No. 498536.

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42" TOW BEHIND MOWER - MODEL NO. 486.243291



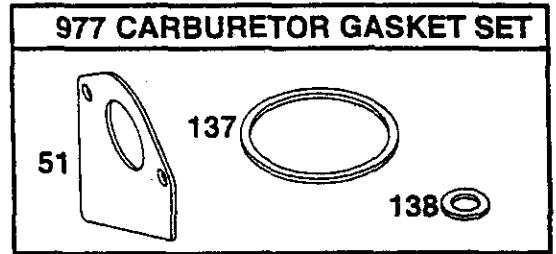
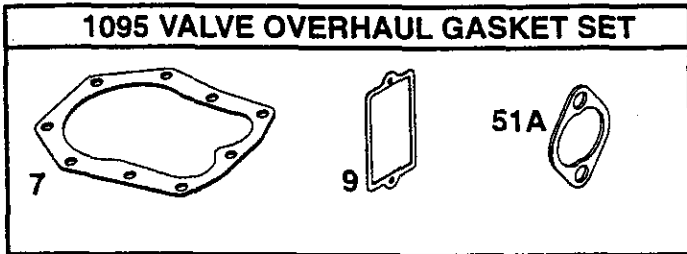
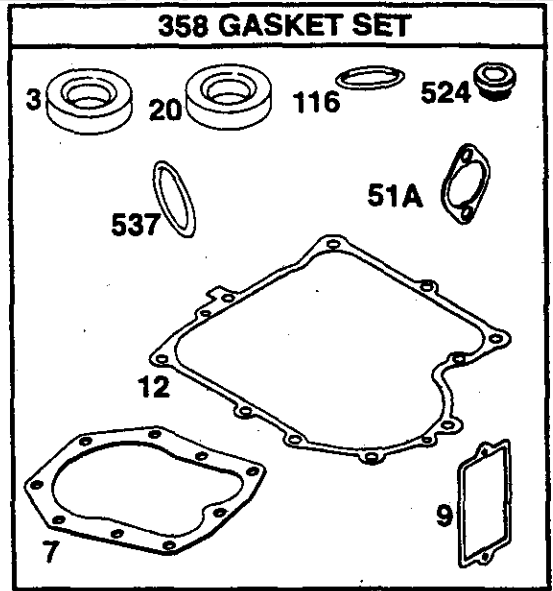
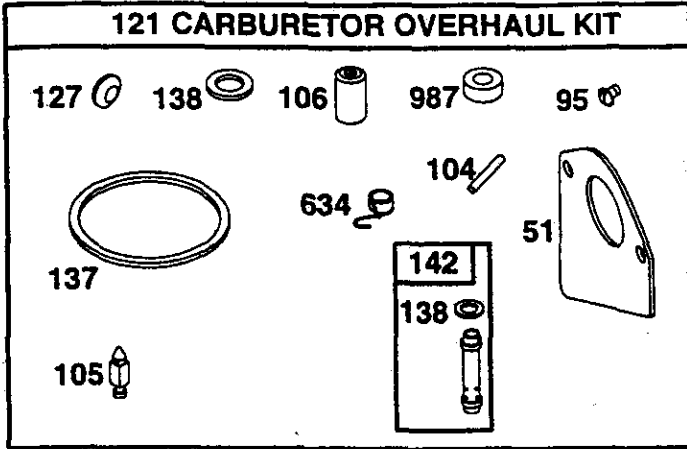
REF. NO.	PART NO.	DESCRIPTION	REF. NO.	PART NO.	DESCRIPTION	REF. NO.	PART NO.	DESCRIPTION
55	393576	Housing-Rewind Starter	63	260414	Spring-Ratchet	70	298799	Ratchet-Clutch
56	295871	Pulley-Starter	64	230543	Adapter-Spring	71	394506	Cover-Ratchet
57	490179	Spring-Rewind Starter	65	94904	Screw-Hex	373	94908	Nut-Hex.
58	66894	Rope-Starter	66	399671	Clutch-Starter	608	390391	Starter-Rewind
59	490653	Insert-Grip	67	394897	Housing-Clutch	655	222598	Anchor-Spring
60	490652	Grip-Starter Rope	68	63770	Ball-Clutch	1016	490817	Spacer-Rewind

★ Included in Gasket Set-Part No. 299577.
 ● Included in Carburetor Kit-Part No. 497535.

◆ Included in Carburetor Gasket Set-Part No. 494385.
 ⌀ Included in Valve Overhaul Gasket Set-Part No. 498536.

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REF. NO.	PART NO.	DESCRIPTION	REF. NO.	PART NO.	DESCRIPTION	REF. NO.	PART NO.	DESCRIPTION
3	*391086	Seal-Oil	51	••272465	Gasket-Intake	138	••281164	Washer
7	∅*272163	Gasket-Cylinder Head	51A	∅*272554	Gasket-Intake	142	•494877	Nozzle-Carburetor
9	∅*27803	Gasket-Breather	95	•94098	Screw-Round Head	358	299577	Gasket Set
12	*271701	Gasket-Crankcase (.015" Thick)	104	•231789	Pin-Float Hinge	524	*281370	Seal-Fill Tube
		*27876 Gasket-Crankcase (.005" Thick)	105	•231855	Valve-Needle	537	*281106	Gasket-Air Cleaner
		*27877 Gasket-Crankcase (.009" Thick)	106	•231854	Seat-Inlet	634	•494453	Seal-Spring Assembly
20	*391086	Seal-Oil	116	*270920	Seal-Valve	977	494385	Gasket Set-Carburetor
			121	497535	Carburetor Kit	987	•281166	Seal-Throttle Shaft
			127	•	Plug-Welch (Sold in Kit Only)	1095	498536	Gasket Set-Valve Overhaul
			137	••281165	Gasket-Float Bowl			

* Included in Gasket Set-Part No. 299577.
 • Included in Carburetor Kit-Part No. 497535.

♦ Included in Carburetor Gasket Set-Part No. 494385.
 ∅ Included in Valve Overhaul Gasket Set-Part No. 498536.

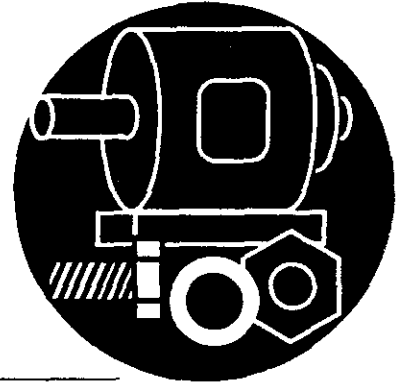
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