

SEARS

operator's manual

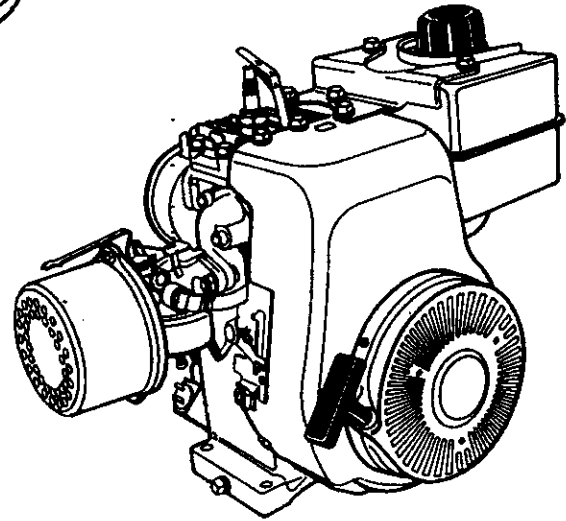
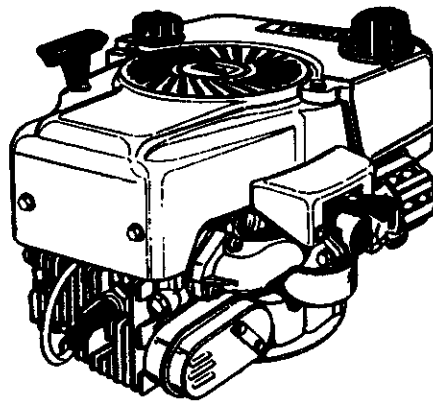
MODEL NO. 143.985016

6.5 RESERVE POWER
12 CUBIC INCH (185 cc)
DISPLACEMENT

SOLID STATE IGNITION

CAUTION:

Read RULES for
Safe OPERATION
and INSTRUCTIONS
Carefully



ENGINE

- Operating
- Maintenance
- Repair Parts



California Proposition 65

WARNING: The engine exhaust from this product contains chemicals known to the State of California to cause cancer, birth defects or other reproductive harm.

Sold by SEARS, ROEBUCK AND CO., CHICAGO, IL 60684 U.S.A.
and SEARS CANADA, INC., TORONTO, ONTARIO, CANADA

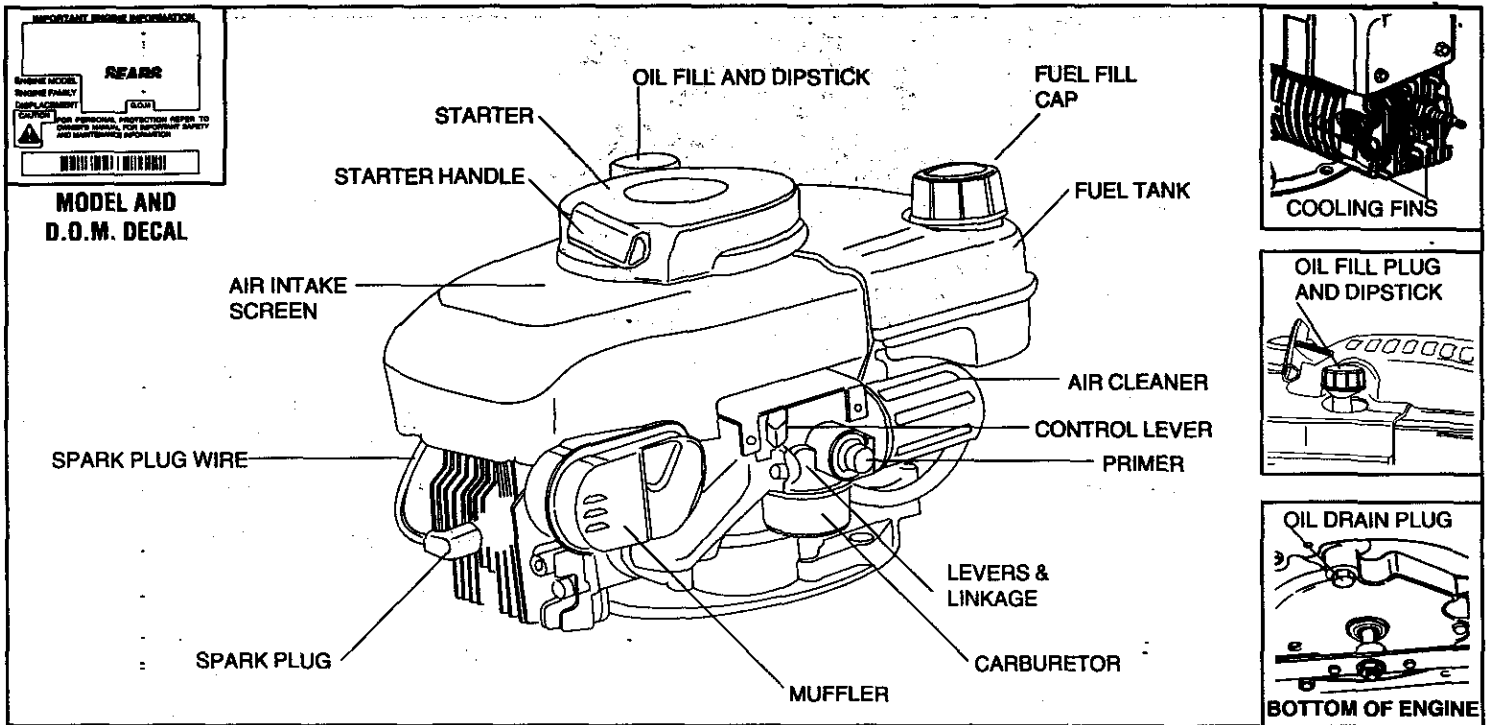


Figure 1



THIS SYMBOL POINTS OUT IMPORTANT SAFETY INSTRUCTIONS WHICH IF NOT FOLLOWED COULD ENDANGER THE PERSONAL SAFETY AND/OR PROPERTY OF YOURSELF AND OTHERS. READ AND FOLLOW ALL INSTRUCTIONS IN THIS MANUAL AND ANY PROVIDED WITH THE EQUIPMENT ON WHICH THIS ENGINE IS USED BEFORE ATTEMPTING TO OPERATING.



THESE SYMBOLS MAY APPEAR ON THE ENGINE:



FAST



SLOW



STOP



OFF



CHOKE



FULL

ENGINES WHICH ARE CERTIFIED TO COMPLY WITH CALIFORNIA AND U.S. EPA EMISSION REGULATIONS FOR ULGE ENGINES: Are certified to operate on regular unleaded gasoline. Include the following emission control system(s): EM, TWC (if so equipped): Do not include any user adjustable features - therefore no other adjustments are needed.

OIL & FUEL RECOMMENDATIONS

TO OPERATE ENGINE, YOU WILL NEED THE FOLLOWING:

① A CLEAN, HIGH QUALITY, DETERGENT OIL.

Be sure original container is marked: A.P.I. service "SF" - "SJ".

FOR SUMMER (ABOVE 32°F; 0°C) USE SAE 30 OIL.

Using multigrade oil will increase oil consumption.

FOR WINTER (BELOW 32°F; 0°C) USE SAE 5W30 OIL. (SAE 10W is an acceptable substitute.)

DO NOT USE 10W40 OIL.

OIL SUMP CAPACITY: 21 ounces (1-1/4 U.S. pints)
.62 liters

② A FRESH, CLEAN, UNLEADED REGULAR, UNLEADED PREMIUM, OR REFORMULATED AUTOMOTIVE GASOLINE ONLY. DO NOT USE LEADED GASOLINE.

NOTE: DO NOT USE GASOLINE CONTAINING METHANOL (WOOD ALCOHOL). Gasoline containing up to 10% ethanol or grain alcohol ("Gasohol"), or up to 15% MTBE (Methyl Tertiary Butyl Ether), may be used but requires special care when engine is unused for extended periods.

See "STORAGE" instructions of Page 5.

NOTE: Use clean oil and fuel and store in approved, clean covered containers. Use clean fill funnels.

Never use "stale" gasoline left over from last season or stored for long periods.

IMPORTANT

KEEP THIS MANUAL HANDY AT ALL TIMES FOR FUTURE REFERENCE. READ IT CAREFULLY AND FAMILIARIZE YOURSELF WITH THE OPERATING, MAINTENANCE AND SAFETY INSTRUCTIONS. THIS MANUAL ALSO CONTAINS A COMPLETE PARTS LISTING.

BEFORE STARTING

①



READ ALL INSTRUCTIONS PROVIDED WITH THE EQUIPMENT ON WHICH THIS ENGINE IS USED.

THIS ENGINE IS EQUIPPED WITH A FEDERALLY MANDATED MECHANISM WHICH STOPS THE ENGINE. DO NOT INTERFERE WITH OR BYPASS THIS MECHANISM. PARTS OF THE MECHANISM MAY BE SUBJECT TO WEAR AND MUST BE CHECKED ONCE A YEAR BY AN AUTHORIZED SEARS ROEBUCK AND CO. (OR SEARS CANADA, INC.) SERVICE CENTER. IN THE EVENT THE MECHANISM FAILS FOR ANY REASON, YOU MUST NOT USE THE ENGINE UNTIL CORRECTED BY AN AUTHORIZED SEARS ROEBUCK AND CO. (OR SEARS CANADA, INC.) SERVICE CENTER.



DISCONNECT SPARK PLUG WIRE FROM SPARK PLUG AND ATTACH IT TO RETAINING POST (see Figure 6 on Page 3).

BEFORE STARTING (Continued)

② INSTALL STARTER ROPE:

- A. Pull at least 2 feet of starter rope out of starter and tie a slip knot at starter to prevent starter rope from rewinding back into starter.
- B. Slide rope stop (see Figure 2) onto starter rope and feed starter rope through rope guide on mower handle (see Figure 3).
- C. Feed starter rope through starter handle (see Figure 4) and tie a left hand knot, leaving 1/2 inch to 1 inch of starter rope extending beyond left hand knot. DO NOT PULL LEFT HAND KNOT INTO STARTER HANDLE YET.
- D. With starter handle resting on rope guide (see Figure 3), check starter rope for slack. If there is any slack, pull more starter rope through starter handle and relocate left hand knot to eliminate slack.
- E. Untie slip knot at starter.
- F. Pull left hand knot into starter handle.
- G. Position rope stop 2 to 3 inches from starter (see Figure 2) and fasten it to starter rope by gripping it with pliers and forcing staple through starter rope until staple is even with outside of rope stop.

③ CHECK OIL LEVEL:

IMPORTANT: NEVER RUN ENGINE UNLESS OIL LEVEL IS BETWEEN "FULL" AND "ADD" MARKS ON DIPSTICK.

CHECK OIL LEVEL OFTEN DURING ENGINE BREAK-IN. NEVER RUN ENGINE UNLESS OIL FILL PLUG IS TIGHTENED SECURELY INTO OIL FILL HOLE.

- A. POSITION EQUIPMENT SO ENGINE IS LEVEL.
- B. Clean area around oil fill plug (see Figure 1).
- C. Remove oil fill plug and dipstick.
- D. Wipe dipstick clean, insert it into oil fill hole and tighten securely.
- E. Remove oil fill plug and check oil level. If level is not up to "FULL" mark on dipstick, add recommended oil, until it is. POUR SLOWLY. Wipe dipstick clean each time oil level is checked. DO NOT FILL ABOVE "FULL" MARK ON DIPSTICK.
- F. Replace oil fill plug and tighten securely. See "MAINTENANCE" section for any future oil level and oil change instructions (see Page 3).

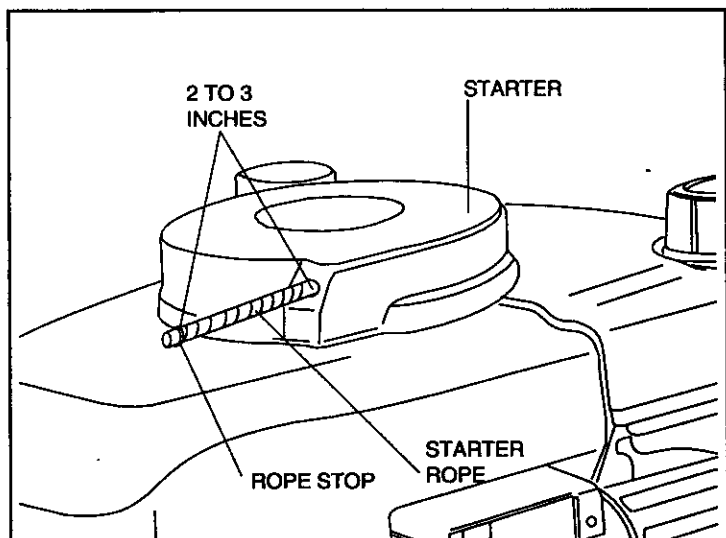


Figure 2

BEFORE STARTING (Continued)

④

FILL FUEL TANK with gasoline as specified in the preceding "OIL & FUEL RECOMMENDATIONS," item 2. **NEVER MIX OIL WITH GASOLINE.** Never use "stale" gasoline left over from last season or stored for long periods.

NEVER FILL FUEL TANK INDOORS. NEVER FILL FUEL TANK WHEN ENGINE IS RUNNING OR HOT. DO NOT SMOKE WHEN FILLING FUEL TANK.

NEVER FILL FUEL TANK COMPLETELY. FILL TANK TO 1/2" BELOW BOTTOM OF FILLER NECK TO PROVIDE SPACE FOR FUEL EXPANSION. WIPE ANY FUEL SPILLAGE FROM ENGINE AND EQUIPMENT BEFORE STARTING ENGINE.

ANY LIQUEFIED PETROLEUM (LPG) OR NATURAL GAS FUEL SYSTEM MUST BE LEAKPROOF AND MEET ALL APPLICABLE CODES AND REGULATIONS.

⑤ CHECK THE FOLLOWING:

- A. **BE SURE EQUIPMENT IS IN NEUTRAL GEAR WITH CLUTCHES, BELTS, CHAINS AND SAFETY SWITCHES DISENGAGED. (FOLLOW EQUIPMENT MANUFACTURER'S INSTRUCTIONS.) THIS SHOULD PLACE ANY SAFETY SWITCHES IN SAFE STARTING POSITION.**
- B. Be sure spark plug wire is attached to spark plug (see Figure 1).

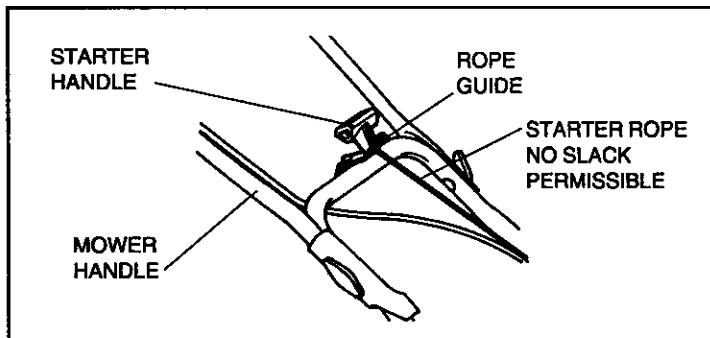


Figure 3

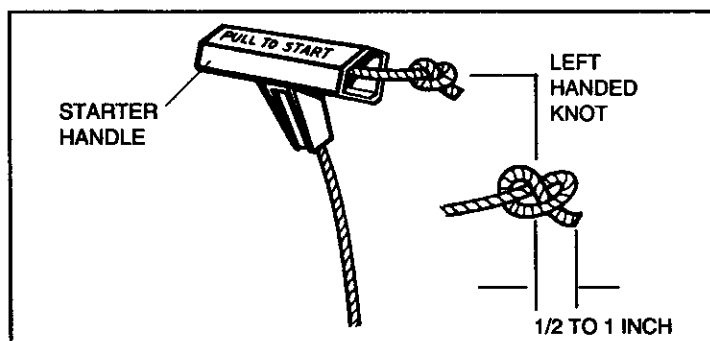


Figure 4

STARTING

⚠ NEVER RUN ENGINE INDOORS OR IN ENCLOSED, POORLY VENTILATED AREAS. ENGINE EXHAUST CONTAINS CARBON MONOXIDE, AN ODORLESS AND DEADLY GAS (CARBON MONOXIDE IS ALSO PRESENT IN ENGINE EXHAUST FROM LIQUID PETROLEUM (LPG) AND NATURAL GAS FUEL SYSTEMS).

⚠ KEEP HANDS, FEET, HAIR AND LOOSE CLOTHING AWAY FROM ANY MOVING PARTS ON ENGINE AND EQUIPMENT.

⚠ WARNING TEMPERATURE OF MUFFLER AND NEARBY AREAS MAY EXCEED 150°F (65°C). AVOID THESE AREAS.

① Move engine control (see Figure 1) to HI Position.

② START ENGINE:

A. The carburetor on your engine has been completely adjusted at the factory. For each initial start, push primer bulb firmly with your thumb 5 times, allowing primer bulb to return completely to original position between pushes. Repeat the above for each starter operation as necessary.

NOTE: DO NOT USE PRIMER TO RESTART A WARM ENGINE AFTER A SHORT SHUTDOWN.

B. Grasp starter handle (see Figure 3) and pull rope out, slowly, until it pulls slightly harder. Let rope rewind slowly. Then pull rope with a rapid full arm stroke. Let rope rewind SLOWLY. Do not let starter handle snap back against rope guide (see Figure 3).

C. Repeat instructions B if necessary, until engine starts.

NOTE: If engine does not start, repeat instructions A, B and C until it starts.

STOPPING

① See mower manufacturer's instructions.

② AFTER ENGINE IS STOPPED:

⚠ A. DISCONNECT SPARK PLUG WIRE FROM SPARK PLUG AND ATTACH IT TO RETAINING POST (see Figure 5).

⚠ B. NEVER STORE ENGINE WITH FUEL IN TANK INDOORS OR IN ENCLOSED, POORLY VENTILATED AREAS, WHERE FUEL FUMES MAY REACH AN OPEN FLAME, SPARK OR PILOT LIGHT AS ON A FURNACE, WATER HEATER, CLOTHES DRYER OR OTHER GAS APPLIANCE.

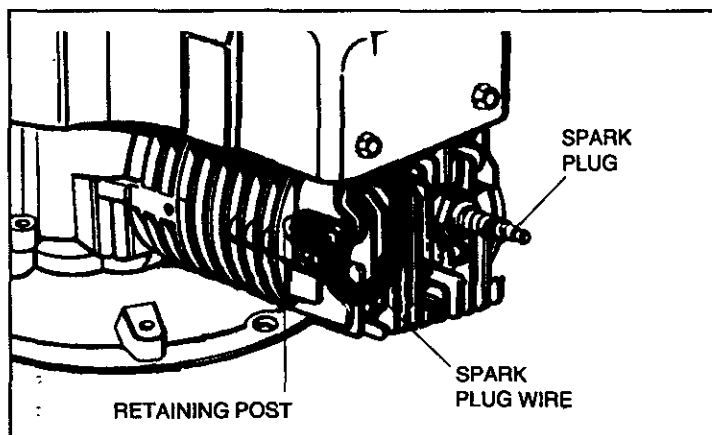


Figure 5

MAINTENANCE

⚠ WARNING TEMPERATURE OF MUFFLER AND NEARBY AREAS MAY EXCEED 150°F (65°C). AVOID THESE AREAS.

① CHECK OIL LEVEL:

Check oil level every five (5) operating hours or each time engine is used. See "3 CHECK OIL LEVEL" in "BEFORE STARTING" on Page 2.

② CHANGE OIL:

Change oil after first two (2) operating hours and every 25 operating hours thereafter, more often if operated in extremely dusty or dirty conditions. Change oil while engine is still warm from recent running.

⚠ A. DISCONNECT SPARK PLUG WIRE FROM SPARK PLUG AND ATTACH IT TO RETAINING POST (see Figure 5).

B. Position equipment so engine oil drain plug is lowest point on engine.

C. Remove oil drain plug and oil fill plug to drain oil (see Figure 1).

D. Replace oil drain plug and tighten securely.

E. Fill oil sump with recommended oil. See "OIL & FUEL RECOMMENDATIONS" and "CHECK OIL LEVEL" on Page 1.

F. Replace oil fill plug and tighten securely.

G. Connect spark plug wire to spark plug.

H. Wipe up any spilled oil and/or gasoline.

NOTE: If it is difficult to reach the oil drain plug, drain fuel. Remove oil fill plug and tip mower on its side. Drain oil into a suitable container.

③ AIR CLEANER (see Figure 6):

⚠ NEVER RUN ENGINE WITHOUT COMPLETE AIR CLEANER INSTALLED ON ENGINE.

Replace filter once a year or more often if used in extremely dusty or dirty conditions.

DO NOT ATTEMPT TO CLEAN OR OIL FILTER.

Replacement filters are available at any Sears Roebuck and Co. (or Sears Canada, Inc.) Service Center. To install new filter, proceed as follows:

A. Turn cover to the right (clockwise) to remove it and remove paper filter from flange. Discard filter.

B. Clean cover and flange thoroughly.

C. Insert new paper filter into cover.

D. Line up tabs on cover with slots on flange.

E. Push cover firmly against flange and turn it to the left (counterclockwise) until cover locks securely in place. Cover should be in vertical position.

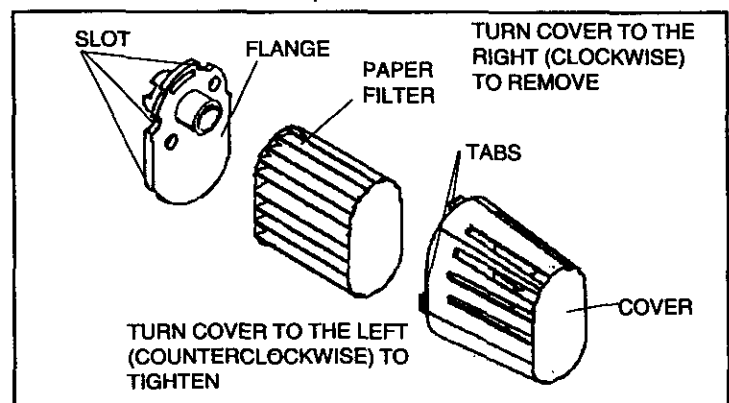


Figure 6

MAINTENANCE (Continued)

④ SPARK PLUG (see Figure 7):

This spark ignition system meets all requirements of the Canadian Interference-Causing Equipment Regulations. This engine complies with all current Australian and New Zealand limitations regarding electromagnetic interference.

Check spark plug yearly or every 100 operating hours.

- A. Clean area around spark plug.
- B. Remove and inspect spark plug.
- C. Replace spark plug if electrodes are pitted, burned or porcelain is cracked. For replacement use Champion RJ19LM, or equivalent.

NOTE: A resistor spark plug must be used for replacement.

- D. Check electrodes gap with wire feeler gauge and set gap at .030 if necessary.
- E. Install spark plug, tighten securely.

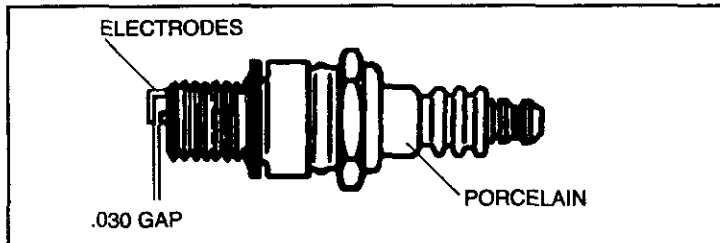


Figure 7

⑤ COOLING SYSTEM:

IMPORTANT: Frequently remove any grass clippings, dirt and debris from cooling fins, air intake screen and levers and linkage (see Figure 1). This will help ensure adequate cooling and correct engine speed.

⑥

CHECK ENGINE AND EQUIPMENT OFTEN FOR LOOSE NUTS, BOLTS AND ATTACHMENTS, AND KEEP THESE ITEMS TIGHTENED.

ADJUSTMENTS

DO NOT MAKE UNNECESSARY ADJUSTMENTS. FACTORY SETTINGS ARE SATISFACTORY FOR MOST APPLICATIONS AND CONDITIONS. IF ADJUSTMENTS ARE NEEDED, PROCEED AS FOLLOWS:

① CARBURETOR

If you think your carburetor needs adjusting, see your nearest SEARS, ROEBUCK AND CO. (OR SEARS CANADA CENTER). Engine performance should not be affected at altitudes up to 7,000 feet. For operation at higher elevations, contact your nearest SEARS, ROEBUCK AND CO. (OR SEARS CANADA, INC.) SERVICE CENTER.

② ENGINE SPEED

NEVER TAMPER WITH ENGINE GOVERNOR WHICH IS FACTORY SET FOR PROPER ENGINE SPEED. OVERSPEEDING ENGINE ABOVE FACTORY HIGH SPEED SETTING CAN BE DANGEROUS. CHANGING OF ENGINE-GOVERNED SPEED WILL VOID ENGINE WARRANTY.

STORAGE

NEVER STORE ENGINE WITH FUEL IN TANK INDOORS OR IN ENCLOSED, POORLY VENTILATED AREAS, WHERE FUEL FUMES MAY REACH AN OPEN FLAME, SPARK OR PILOT LIGHT AS ON A FURNACE, WATER HEATER, CLOTHES DRYER OR OTHER GAS APPLIANCE.

IF ENGINE IS TO BE UNUSED FOR 30 DAYS OR MORE, PREPARE AS FOLLOWS:

① DRAIN FUEL SYSTEM:

- A. Remove all gasoline from carburetor and fuel tank to prevent gum deposits from forming on these parts and causing possible malfunction of engine.

DRAIN FUEL INTO APPROVED CONTAINER OUTDOORS, AWAY FROM OPEN FLAME. BE SURE ENGINE IS COOL. DO NOT SMOKE.

- B. Run engine until fuel tank is empty and engine stops due to lack of fuel.

NOTE: Fuel stabilizer (such as STA-BIL) 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 mix ratio found on stabilizer container. Run engine at least 10 minutes after adding stabilizer to allow it to reach carburetor.

② CHANGE OIL:

Change oil if it has not been changed in the last three (3) months. See "CHANGE OIL" instructions in "MAINTENANCE" section on Page 3.

③ OIL CYLINDER BORE:

- A. Remove spark plug and pour one (1) ounce (30 ml) of engine oil into spark plug hole.
- B. Cover spark plug hole with a rag.
- C. Crank engine over, slowly, several times.

AVOID SPRAY FROM SPARK PLUG HOLE WHEN CRANKING ENGINE OVER SLOWLY.

- D. Replace spark plug.

④ CLEAN ENGINE:

Remove any clippings, dirt, or chaff from exterior of engine.

GENERAL

Just as your automobile needs professional mechanical maintenance from time to time, so does your Craftsman engine. Replacement of the spark plug and air cleaner is made necessary by NORMAL use. Professional Air-Cooled Engine Service is as close as your nearest Sears Roebuck and Co. (or Sears Canada, Inc.) Service Center.

A yearly check-up or tune-up by Sears is a good idea to avoid breakdowns or delay . . . do it at the end of the season, then you're ready for the next. We even prepare it for storage for you.

TROUBLESHOOTING

**THE FOLLOWING MAY HELP AVOID A DELAY IN YOUR WORK OR
SAVE THE EXPENSE OF A SERVICE CALL.**

ENGINE FAILS TO START OR STARTS WITH DIFFICULTY	
CAUSE	REMEDY
Controls not in start position.	Move ENGINE CONTROL or equipment control to "HI" or START position. See "STARTING" instructions in this manual.
Spark plug wire disconnected from spark plug.	Connect SPARK PLUG WIRE to SPARK PLUG.
Spark plug fouled.	Remove SPARK PLUG and clean it. See "SPARK PLUG" instructions in "MAINTENANCE" section in this manual.
Spark plug porcelain cracked.	Install new spark plug.
Insufficient fuel.	Fill FUEL TANK per "BEFORE STARTING" instructions.
Water or dirt in fuel.	Drain FUEL TANK and re-fill with clean, fresh gasoline. See "BEFORE STARTING" instructions in this manual.
Improper carburetor adjustment	Adjust carburetor (if applicable). See "ADJUSTMENTS" section in this manual.
ENGINE LACKS POWER	
CAUSE	REMEDY
Dirty air cleaner.	Replace or clean air cleaner per "AIR CLEANER" instructions in "MAINTENANCE" section in this manual.
Improper carburetor adjustment.	Adjust carburetor (if applicable). See "ADJUSTMENTS" section in this manual.
Lack of lubricaiton.	Fill oil sump to proper level. See "BEFORE STARTING" instructions section in this manual.
ENGINE MISSES UNDER LOAD	
CAUSE	REMEDY
Spark plug fouled.	Remove SPARK PLUG and clean it. See "SPARK PLUG" instructions in "MAINTENANCE" section in this manual.
Spark plug porcelain cracked.	Install new SPARK PLUG.
Improper spark plug gap.	Regap SPARK PLUG electrodes. See "SPARK PLUG" instructions in "MAINTENANCE" section in this manual.
Improper carburetor adjustment	Adjust carburetor (if applicable). See "ADJUSTMENTS" section in this manual.

Federal and California Emission Control Systems Limited Warranty

Utility and Lawn and Garden Engines

CALIFORNIA & US EPA EMISSION CONTROL WARRANTY STATEMENT

The U. S. Environmental Protection Agency ("EPA"), the California Air Resources Board ("CARB") and Sears, Roebuck and Co. are pleased to explain the Federal and California Emission Control Systems Warranty on your new utility or lawn and garden equipment engine. In California, new 1995 and later utility and lawn and garden equipment engines must be designed, built and equipped to meet the State's stringent anti-smog standards. In other states, new 1997 and later model year engines must be designed, built and equipped, at the time of sale, to meet the U.S. EPA regulations for small non-road engines. Sears, Roebuck and Co. will warrant the emission control system on your utility or lawn and garden equipment engine for the periods of time listed below, provided there has been no abuse, neglect, unapproved modification, or improper maintenance of your utility or lawn and garden equipment engine.

Your emission control system may include parts such as the carburetor, ignition system and exhaust system. Also included may be the compression release system and other emission-related assemblies.

Where a warrantable condition exists, Sears, Roebuck and Co. will repair your utility or lawn and garden equipment engine at no cost to you for diagnosis, parts and labor.

MANUFACTURER'S EMISSION CONTROL SYSTEM WARRANTY COVERAGE

Emission control systems on 1995 and later model year California utility and lawn and garden equipment engines are warranted for two years as hereinafter noted. In other states, 1997 and later model year engines are also warranted for two years. If, during such warranty period, any emission-related part on your engine is defective in materials or workmanship, the part will be repaired or replaced by Sears, Roebuck and Co.

OWNER'S WARRANTY RESPONSIBILITIES

As the utility or lawn and garden equipment engine owner, you are responsible for the performance of the required maintenance listed in your Owner's Manual, but Sears, Roebuck and Co. will not deny warranty solely due to the lack of receipts or for your failure to provide written evidence of the performance of all scheduled maintenance.

As the utility or lawn and garden equipment engine owner, you should, however, be aware that Sears, Roebuck and Co. may deny you warranty coverage if your utility or lawn and garden equipment or a part thereof has failed due to abuse, neglect, improper maintenance or unapproved modifications.

You are responsible for presenting your utility or lawn and garden equipment engine to a Sears, Roebuck and Co. Authorized Service Outlet as soon as a problem exists. The warranty repairs should be completed in a reasonable amount of time, not to exceed 30 days.

Warranty service can be arranged by contacting either a Sears, Roebuck and Co. Authorized Service Outlet, or by contacting Sears, Roebuck and Co. at 1-800-473-7247.

IMPORTANT NOTE

This warranty statement explains your rights and obligations under the Emission Control System Warranty ("ECS Warranty") which is provided to you by Sears, Roebuck and Co. pursuant to California law. See also the Sears, Roebuck and Co. Limited Warranties for Sears, Roebuck and Co. which is enclosed therewith on a separate sheet and also is provided to you by Sears, Roebuck and Co. The ECS Warranty applies only to the emission control system of your new engine. To the extent that there is any conflict in terms between the ECS Warranty and the Sears, Roebuck and Co. Warranty, the ECS Warranty shall apply except in any circumstances in which the Sears, Roebuck and Co. Warranty may provide a longer warranty period. Both the ECS Warranty and the Sears, Roebuck and Co. Warranty describe important rights and obligations with respect to your new engine.

Warranty service can only be performed by a Sears, Roebuck and Co. Authorized Service Outlet. At the time of requesting warranty service, evidence must be presented of the date of sale to the original purchaser. The purchaser shall pay any charges for making service calls and/or for transporting the products to and from the place where the inspection and/or warranty work is performed. The purchaser shall be responsible for any damage or loss incurred in connection with the transportation of any engine or any part(s) thereof submitted for inspection and/or warranty work.

If you have any questions regarding your warranty rights and responsibilities, you should contact Sears, Roebuck and Co. at 1-800-473-7247.

EMISSION CONTROL SYSTEM WARRANTY

Emission Control System Warranty ("ECS Warranty") for 1995 and later model year California utility and lawn and garden equipment engines (for other states, 1997 and later model year engines):

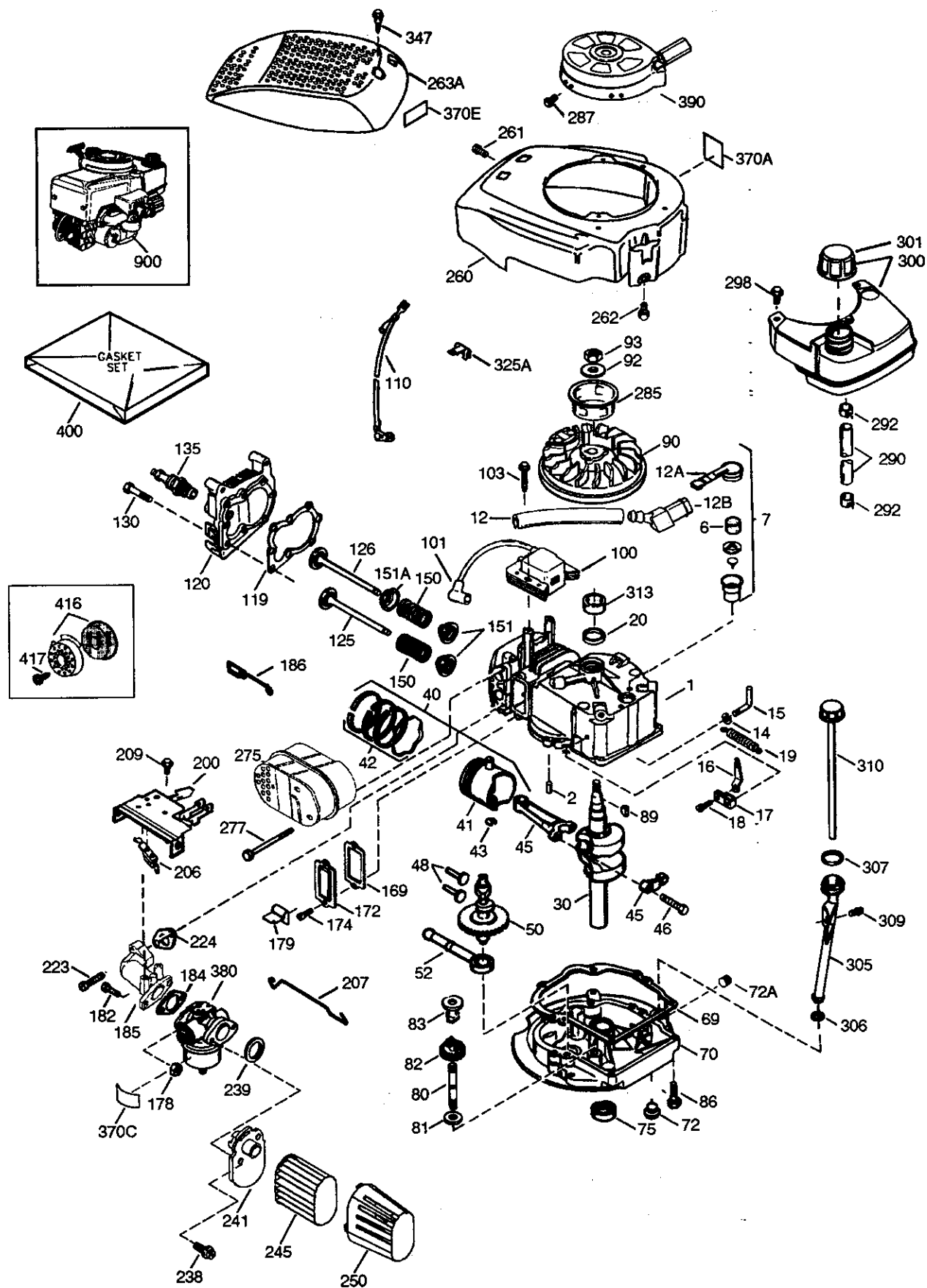
A. **APPLICABILITY:** This warranty shall apply to 1995 and later model year California utility and lawn and garden equipment engines (for other states, 1997 and later model year engines). The ECS Warranty Period shall begin on the date the new engine or equipment is delivered to its original, end-use purchaser, and shall continue for 24 consecutive months thereafter.

B. **GENERAL EMISSIONS WARRANTY COVERAGE:** Sears, Roebuck and Co. warrants to the original, end-use purchaser of the new engine or equipment and to each subsequent purchaser that each of its utility and lawn and garden equipment engines is:

1. Designed, built and equipped so as to conform with all applicable regulations adopted by the Air Resources Board pursuant to its authority in Chapters 1 and 2, Part 5, Division 26 of the Health and Safety Code, and
 2. Free from defects in materials and workmanship which, at any time during the ECS Warranty Period, will cause a warranted emissions-related part to fail to be identical in all material respects to the part as described in the engine manufacturer's application for certification.
- C. The ECS Warranty only pertains to emissions-related parts on your engine, as follows:
1. Any warranted, emissions-related parts which are not scheduled for replacement as required maintenance in the Owner's Manual shall be warranted for the ECS Warranty Period. If any such part fails during the ECS Warranty Period, it shall be repaired or replaced by Sears, Roebuck and Co. according to Subsection 4 below. Any such part repaired or replaced under the ECS Warranty shall be warranted for any remainder of the ECS Warranty Period.
 2. Any warranted, emissions-related part which is scheduled only for regular inspection as specified in the Owner's Manual shall be warranted for the ECS Warranty Period. A statement in such written instructions to the effect of "repair or replace as necessary", shall not reduce the ECS Warranty Period. Any such part repaired or replaced under the ECS Warranty shall be warranted for the remainder of the ECS Warranty Period.
 3. Any warranted, emissions-related part which is scheduled for replacement as required maintenance in the Owner's Manual, shall be warranted for the period of time prior to the first scheduled replacement point for that part. If the part fails prior to the first scheduled replacement, the part shall be repaired or replaced by Sears, Roebuck and Co. according to Subsection 4 below. Any such emissions-related part repaired or replaced under the ECS Warranty, shall be warranted for the remainder of the ECS Warranty Period prior to the first scheduled replacement point for such emissions-related part.
 4. Repair or replacement of any warranted, emissions-related part under this ECS Warranty shall be performed at no charge to the owner at a Sears, Roebuck and Co. Authorized Service Outlet.
 5. The owner shall not be charged for diagnostic labor which leads to the determination that a part covered by the ECS Warranty is in fact defective, provided that such diagnostic work is performed at a Sears, Roebuck and Co. Authorized Service Outlet.
 6. Sears, Roebuck and Co. shall be liable for damages to other original engine components or approved modifications proximately caused by a failure under warranty of an emission-related part covered by the ECS Warranty.
 7. Throughout the ECS Warranty Period, Sears, Roebuck and Co. shall maintain a supply of warranted emission-related parts sufficient to meet the expected demand for such emission-related parts.
 8. Any Sears, Roebuck and Co. authorized and approved emission-related replacement part may be used in the performance of any ECS Warranty maintenance or repair and will be provided without charge to the owner. Such use shall not reduce Sears, Roebuck and Co. ECS Warranty obligations.
 9. Unapproved add-on or modified parts may not be used to modify or repair a Sears, Roebuck and Co. engine. Such use voids this ECS Warranty and shall be sufficient grounds for disallowing an ECS Warranty claim. Sears, Roebuck and Co. shall not be liable hereunder for failures of any warranted parts of a Sears, Roebuck and Co. engine caused by the use of such an unapproved add-on or modified part.

EMISSION-RELATED PARTS INCLUDE THE FOLLOWING:

1. Carburetor Assembly and its Internal Components
 - a) Fuel filter
 - b) Carburetor gaskets
 - c) Intake pipe
2. Air Cleaner Assembly
 - a) Air filter element
3. Ignition System, including:
 - a) Spark plug
 - b) Ignition module
 - c) Flywheel assembly
4. Catalytic Muffler (if so equipped)
 - a) Muffler gasket (if so equipped)
 - b) Exhaust manifold (if so equipped)
5. Crankcase Breather Assembly and its Components
 - a) Breather connection tube

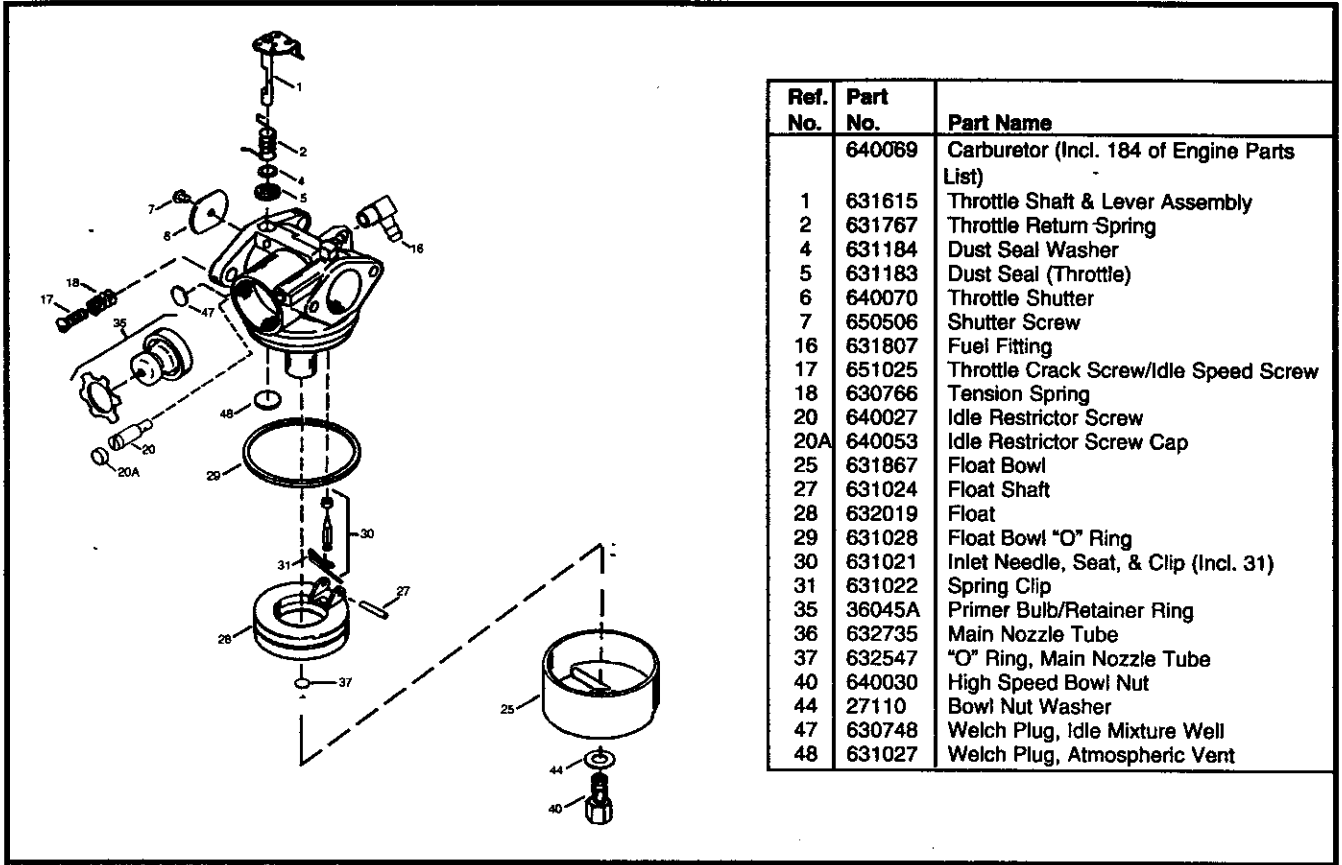


CRAFTSMAN 4-CYCLE ENGINE

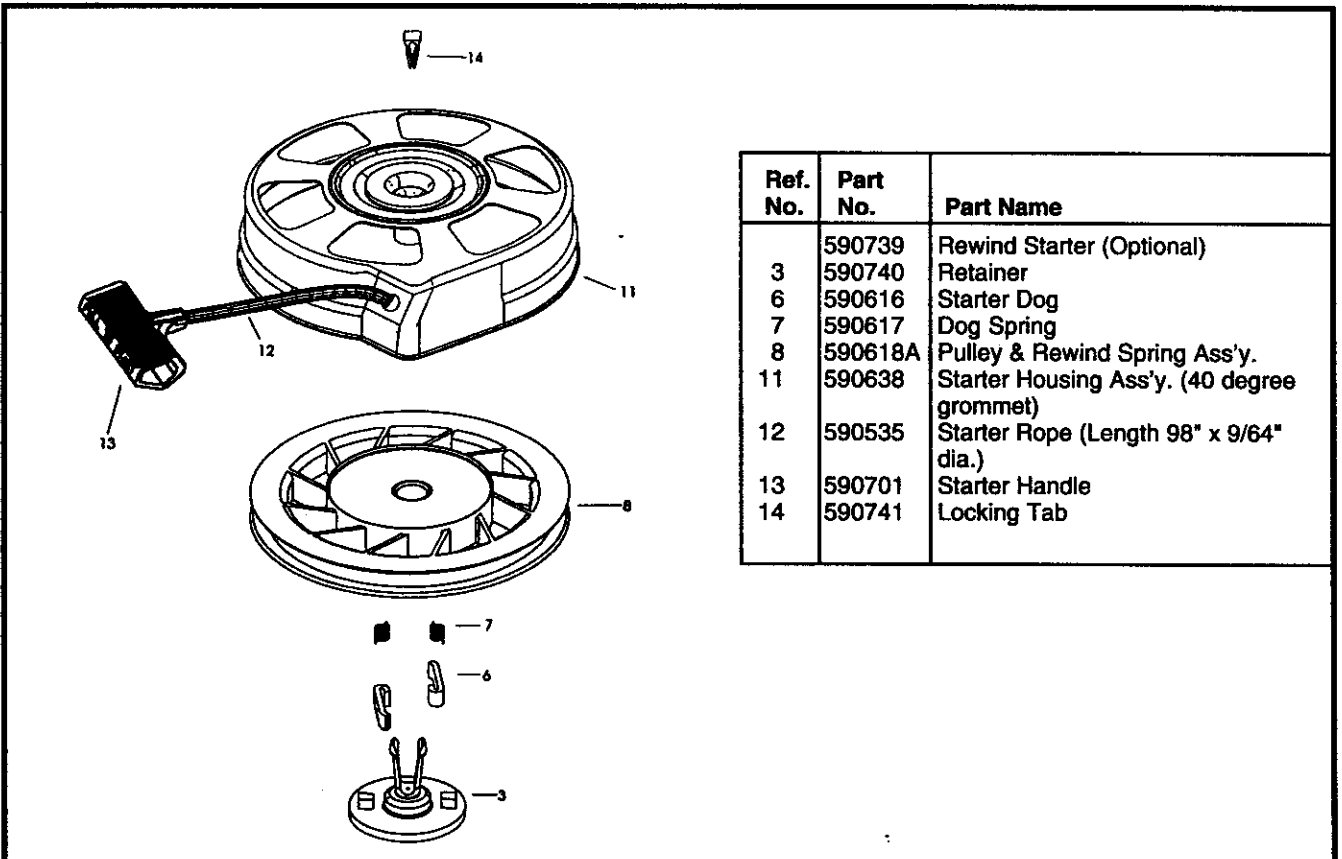
MODEL: 143.985016

Ref. No.	Part No.	Part Name	Ref. No.	Part No.	Part Name
1	36774	Cylinder (Incl. 2 & 20)	178	29752	Nut & Lock Washer, 1/4-28
2	26727	Dowel Pin	179	30593	Retainer Clip
6	33734	Breather Element	182	6201	Screw, 1/4-28 x 7/8"
7	36557	Breather Ass'y. (Incl. 6 & 12A)	184	*26756	Carburetor To Intake Pipe Gasket
12	36775	Breather Tube	185	36785	Intake Pipe
12A	36558	Breather Cover & Tube (Incl. 12B)	186	36255	Governor Link
12B	36694	Breather Tube Elbow	200	35999A	Control Bracket (Incl. 206)
14	28277	Washer	206	610973	Terminal
15	30589	Governor Rod (Incl. 14)	207	36200	Throttle Link
16	34839A	Governor Lever	209	30200	Screw, 10-24 x 9/16"
17	31335	Governor Lever Clamp	223	650451	Screw, 1/4-20 x 1"
18	651018	Screw, Torx T-15, 8-32 x 19/64"	224	*36786	Intake Pipe Gasket
19	36796	Extension Spring	238	650932	Screw, 10-32 x 49/64"
20	32600	Oil Seal	239	*34338	Air Cleaner Gasket
30	36797	Crankshaft	241	36919	Air Cleaner Collar
40	40004	Piston, Pin & Ring Set (Std.)	245	36905	Air Cleaner Filter
40	40005	Piston, Pin & Ring Set (.010" OS)	250	36920	Air Cleaner Cover
41	36070	Piston & Pin Ass'y. (Std.) (Incl. 43)	260	36980	Blower Housing
41	36071	Piston & Pin Ass'y. (.010" OS) (Incl. 43)	261	30200	Screw, 10-24 x 9/16"
42	40006	Ring Set (Std.)	262	650831	Screw, 1/4-20 x 1/2"
42	40007	Ring Set (.010" OS)	263A	37198	Starter Grill
43	20381	Piston Pin Retaining Ring	275	36790	Muffler
45	36777	Connecting Rod Ass'y. (Incl. 46)	277	650988	Screw, 1/4-20 x 2-9/32"
46	32610A	Connecting Rod Bolt	285	35000A	Starter Cup
48	27241	Valve Lifter	287	650926	Screw, 8-32 x 21/64"
50	36778	Camshaft (MCR)	290	29774	Fuel Line
52	29914	Oil Pump Ass'y.	292	26460	Fuel Line Clamp
69	*35261	Mounting Flange Gasket	298	28763	Screw, 10-32 x 35/64"
70	34311E	Mounting Flange (Incl. 72 thru 83, 311)	300	36916	Fuel Tank (Incl. 292 & 301)
72	36083	Oil Drain Plug	301	36246	Fuel Cap
72A	28534	Oil Drain Plug	305	35647	Oil Fill Tube
75	27897	Oil Seal	306	*36996	"O"-Ring
80	30574A	Governor Shaft	307	35499	"O"-Ring
81	30590A	Washer	309	650562	Screw, 10-32 x 3/8"
82	30591	Governor Gear Ass'y. (Incl. 81)	310	35648	Dipstick
83	30588A	Governor Spool	313	34080	Spacer
86	650488	Screw, 1/4-20 x 1-1/4"	325A	37152	Spring Clip
89	610961	Flywheel Key	347	651038	Screw, 10-32 x 27/32"
90	611213	Flywheel	370A	36261	Lubrication Decal
92	650815	Belleville Washer	370C	37199	Primer Decal
93	650816	Flywheel Nut	370E	34387	Air Cleaner Decal
100	34443A	Solid State Ignition	380	640069	Carburetor (Incl. 184)
101	610118	Spark Plug Cover	390	590739	Rewind Starter
103	651007	Screw, Torx T-15, 10-24 x 15/16"	400	36792B	(NOTE: This engine could have been built with 590702 starter).
110	36230	Ground Wire	416	36085	Gasket Set (Incl. Items Marked *)
119	*36787	Cylinder Head Gasket	417	650760	Spark Arrestor Kit (Incl. 417) (Optional)
120	36825	Cylinder Head	900		Screw, 8-32 x 3/8" (Optional)
125	36779	Exhaust Valve (Std.) (Incl. 151)			Replacement Engine 750848 order from 71-999
125	36780	Exhaust Valve (1/32" OS) (Incl. 151)			Replacement S/B 750812A, order from 71-999
126	36781	Intake Valve (Std.) (Incl. 151)			Operator's Manual
126	36782	Intake Valve (1/32" OS) (Incl. 151)			
130	6021A	Screw, 5/16-18 x 1-1/2"		181-1173-11	
135	35395	Resistor Spark Plug (RJ19LM)			
150	35991	Valve Spring			*Indicates Parts Included in Gasket Set, Ref. No. 400.
151	31673	Valve Spring Cap			
151A	40017	Intake Valve Seal			
169	*36783	Valve Cover Gasket			RPM High 3450 to 3750
172	36784	Valve Cover			RPM Low 2000 to 2300
174	30200	Screw, 10-24 x 9/16"			

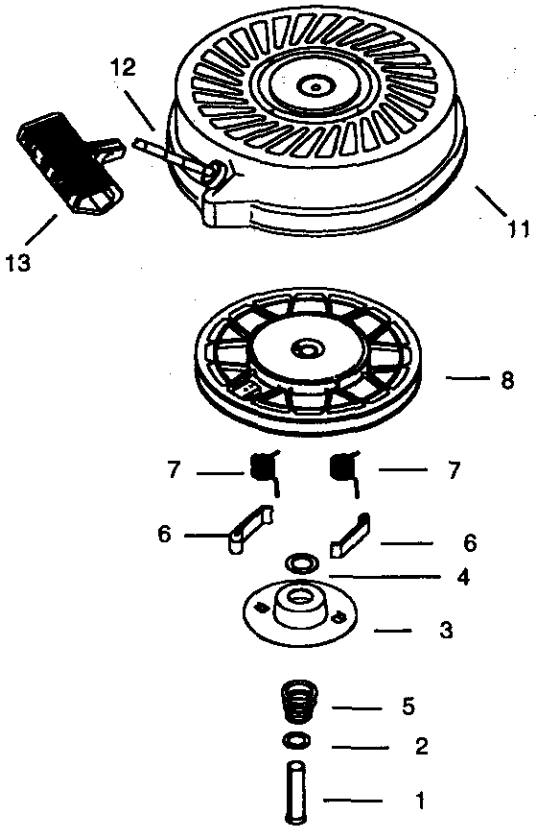
CARBURETOR NO. 640069



REWIND STARTER NO. 590739



STARTER NO. 590694



Ref. No.	Part No.	Part Name
	590694	Recoil Starter
1	590599A	Spring Pin (Incl. 4)
2	590600	Washer
3	590696	Retainer
4	590601	Washer
5	590697	Brake Spring
6	590698	Starter Dog
7	590699	Dog Spring
8	590700	Pulley & Rewind Spring Ass'y.
11	590695	Starter Housing Ass'y. (40 degree grommet)
12	590535	Starter Rope (98" x 9/64" dia.)
13	590701	Starter Handle

SEARS

operator's manual

MODEL NO. 143.985016

**6.5 RESERVE POWER
12 CUBIC INCH (185 cc)
DISPLACEMENT**

SOLID STATE IGNITION

CAUTION:

**Read RULES for
Safe OPERATION
and INSTRUCTIONS
Carefully**

How to ORDER Repair Parts

The Model Number can be found on a decal on the blower housing (See Figure 1). Always mention the Model Number when requesting service or repair parts for your Craftsman Engine.

All parts listed herein may be ordered from any SEARS, ROEBUCK AND CO. or SEARS CANADA, INC. retail or catalog store. If the parts you need are not stocked locally, your order will be electronically transmitted to a Sears Repair Parts Distribution Center for expedited handling.

WHEN ORDERING REPAIR PARTS, ALWAYS GIVE THE FOLLOWING INFORMATION AS SHOWN IN THIS LIST.

1. The PART NUMBER
2. The PART DESCRIPTION
3. The MODEL NUMBER
4. The NAME OF ITEM - ENGINE

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