

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



Page 1

BEFORE STARTING (Continued)



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 EN-GINE AND EQUIPMENT BEFORE STARTING ENGINE.

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

④ CHECK THE FOLLOWING:

A. BE SURE EQUIPMENT IS IN NEUTRAL GEAR WITH CLUTCHES, BELTS, CHAINS AND SAFETY SWITCHES DISENGAGED. (FOLLOW EQUIPMENT MANU-FACTURER'S INSTRUCTIONS.) THIS SHOULD PLACE ANY SAFETY SWITCHES IN SAFE STARTING POSITION.

Be sure spark plug wire is attached to spark plug (see Figure 1).

STARTING

NEVER RUN ENGINE INDOORS OR IN ENCLOSED, POORLY VENTILATED AREAS. ENGINE EXHAUST CONTAINS CAR-BON MONOXIDE, AN ODORLESS AND DEADLY GAS (CAR-BON 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. When starting a cold engine, push red 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 2) 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 2).
- C. Repeat instruction B if necessary, until engine starts. NOTE: If engine does not start, repeat instructions A, B and C until it starts.

ENGINE SPEED: Engine speed is controlled by the ENGINE CON-TROL see Figure 1).

ENGINE CONTROL should be in HI position for high grass conditions and for most efficient bagging in heavy grass conditions, and in LOW position for light grass, trimming and for fuel economy.

STOPPING

1) Move ENGINE CONTROL (see Figure 1) to STOP.

② AFTER ENGINE IS STOPPED:



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

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.



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 "@CHECK OIL LEVEL" in "BEFORE STARTING" on Page 1.

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 3).

- 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 REC-OMMENDATIONS" 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.

MAINTENANCE (Continued)

3 AIR CLEANER (see Figure 4):

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 left (counterclockwise) and remove it and filter from flange. Discard filter.
- B. Clean cover and flange thoroughly.
- C. Insert new filter into cover.
- D. Position cover and filter against flange with tab on cover inserted into lower left corner of slot in flange.
- E. Push cover firmly against flange and turn it to the right (clockwise) as far as it will go. Be sure retainers are locked around flange.



Figure 4

MAINTENANCE (Continued)

(4) SPARK PLUG (see Figure 5):

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 RJ-19LM 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 5

(5) COOLING SYSTEM (see Figure 1):

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.

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

ADJUSTMENTS

DO NOT MAKE UNNECESSARY ADJUSTMENTS. FACTORY SET-TINGS 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, INC.) SERVICE 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 FAC-TORY SET FOR PROPER ENGINE SPEED. OVERSPEEDING ENGINE ABOVE FACTORY HIGH SPEED SETTING CAN BE DANGEROUS.

CHANGING OF ENGINE-GOVERNED SPEED WILL VOID EN-GINE 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.

STORAGE (Continued)

2 CHANGE OIL:

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

③ OIL CYLINDER BORE:

- A. Remove spark plug. Squirt one (1) oz. (30 ml) of clean 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 CRANK-ING ENGINE OVER SLOWLY.

D. Install spark plug. Do not connect spark plug wire.

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.

CAUSE	REMEDY
Controls not in start position.	Move ENGINE CONTROL or equipment control to "HI" or START postion. 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.
mproper spark plug gap.	Regap SPARK PLUG electrodes. See "SPARK PLUG" instructions in "MAINTENANCE" section in this manual.
mproper carburetor adjustment	Adjust carburetor (if applicable). See "ADJUSTMENTS" section in this manual.

SEARS, ROEBUCK AND CO.

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 engines. 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 tack 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. 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:

- 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, hne
- 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
 - 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. 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 related part.
 - 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
 - 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.
 - 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.
 - 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 shalt 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
- a) All intervention of the element
 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

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CRAFTSMAN 4-CYCLE ENGINE

MODEL: 143.994024

Ref.	Part	_	Ref.	Part	
No.	No.	Part Name	No.	No.	Part Name
1	37280 26727	Cylinder (Incl. 2,20 & 150)	151	31673	Valve Spring Cap
6	33734	Dowel Pin Breather Element	151A	40017	Intake Valve Seal
7	36557		169	*36783	Valve Cover Gasket
12	36775	Breather Ass'y. (Incl. 6 & 12A) Breather Tube	172 174	36784	Valve Cover
12A	36558	Breather Cover & Tube (Incl. 128)	174	30200 29752	Screw, 10-24 x 9/16"
12B	36694	Breather Tube Elbow	179	30593	Nut & Lock Washer, 1/4-28 Retainer Clip
14	28277	Washer	182	6201	Screw, 1/4-28 x 7/8"
15	30589	Governor Rod (Incl. 14)	184	*26756	Carburetor To Intake Pipe Gasket
16	34839A	Governor Lever	185	36785	Intake Pipe
17	31335	Governor Lever Clamp	186	34337	Governor Link
18	651018	Screw, Torx T-15, 8-32 x 19/64"	20 0	33205A	Control Bracket (Incl. 202 thru 206)
19	36281	Extension Spring	202	36482	Compression Spring
20	32600	Oil Seal	203	31342	Compression Spring
30	36833	Crankshaft	204	651029	Screw, Torx T-10, 5-40 x 7/16"
40	35544A	Piston, Pin & Ring Set (Std.)	205	651019	Screw, Torx T-10, 6-32 x 41/64"
40	35545A	Piston, Pin & Ring Set (.010" OS)	206	610973	Terminal
40	35546	Piston, Pin & Ring Set (.020" OS)	207	34336	Throttle Link
41 41	35541 35542	Piston & Pin Ass'y. (Std.) (Incl. 43)	209	30200	Screw, 10-24 x 9/16"
41	30042	Piston & Pin Ass'y. (.010" OS) (Incl.	215	32410	Control Knob
41	35543	43) Piston & Din Ass'ly (020# 06) ((==)	223	650451	Screw, 1/4-20 x 1"
·	00043	Piston & Pin Ass'y. (.020" OS) (Incl. 43)	224	*36786	Intake Pipe Gasket
42	35547A	Ring Set (Std.)	238 239	650932 *34338	Screw, 10-32 x 49/64"
42	35548A	Ring Set (.010" OS)	239 241	34338	Air Cleaner Gasket
42	35549	Ring Set (.020 OS)	241	35066	Air Cleaner Collar Air Cleaner Filter
43	20381	Piston Pin Retaining Ring	250	35065	Air Cleaner Filter Air Cleaner Cover
45	36777	Connecting Rod Ass'y. (Inci. 46)	260	36798	Blower Housing
46	32610A	Connecting Rod Bolt	261	30200	Screw, 10-24 x 9/16"
48	27241	Valve Lifter	262	650831	Screw, 1/4-20 x 1/2"
50	37032	Camshaft (NCR)	263	36240	Trim Ring
52	29914	Oil Pump Ass'y	275	36837A	Muffler
69	*35261	Mounting Flange Gasket	275A	36790A	Muffler (Optional)
70	34311E	Mounting Flange (Incl. 72 thru 83, 306)			(NOTE: This muffler used together
72	36083	Oil Drain Plug			with Ref#'s 284,284A,416 & 417
72A	28534	Oil Drain Plug			make up an optional spark arrestor
75	27897	Oil Seal	277	650988	muffler). Sorow 1/4 20 x 2 5/16"
80	30574A	Governor Shaft	284	36663	Screw, 1/4-20 x 2-5/16" Muffler Deflector (Inci. 284)
81	30590A	Washer			(Optional)
82	30591	Governor Gear Ass'y. (Incl. 81)	.284A	650821	Screw, 10-32 x 1/2" (Optional)
83	30588A	Governor Spool	285	35000A	Starter Cup
86	650488	Screw, 1/4-20 x 1-1/4"	287	650926	Screw, 8-32 x 21/64"
89	610961	Flywheel Key	290	34357	Fuel Line
90 90	611213	Flywheei	292	26460	Fuel Line Clamp
92	650815	Belleville Washer	300	35586	Fuel Tank (Incl. 292 & 301)
93 100	650816	Flywheel Nut	301	35355	Fuel Cap
100 101	34443B	Solid State Ignition	305	35577	Oil Fill Tube
101	610118 651007	Spark Plug Cover	306	*36996	"O"-Ring
110	36230	Screw, Torx T-15, 10-24 x 15/16" Ground Wire			
110A	36816	Ground Wire			
119	*37028	Cylinder Head Gasket			
120	36825	Cylinder Head Cylinder Head			•
125	37288	Exhaust Valve (Std.) (Incl. 151)			
126	37289	Intake Valve (Std.) (Incl. 151)			
130	6021A	Screw, 5/16-18 x 1-1/2"			
135	35395	Resistor Spark Plug (RJ19LM)			*Indicates Parts Included in
150	31672	Valve Spring			Gasket Set, Ref. No. 400.

CRAFTSMAN 4-CYCLE ENGINE

MODEL: 143.994024

Ref. No.	Part No.	Part Name	Ref. No.	Part No.	Part Name
307 309 310	35499 650562 35578	"O"-Ring Screw, 10-32 x 1/2" Dipstick	416 417	35085 650821	Spark Arrestor Kit (Incl. 417) (Optional) Screw, 10-32 x 1/2" (Optional)
313 370A 370B 370C	34080 36261 35169 37199	Spacer Lubrication Decal Control Decal Primer Decal	900 900		Replacement Engine 750838A, order from 71-999 Replacement Short Block 750833A, order from 71-999
370K 380 390	36695 640174 590737	Starter Decal Carburetor (Incl. 184) Rewind Starter (NOTE: This engine could have		181-1204-11	• • • • • • • • • • • • • • • • • • • •
400	37029A	been built with 590694 starter). Gasket Set (Incl. Items Marked *)			RPM High 3050 to 3350 RPM Low 2400 to 2700
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CARBURETOR NO. 640174

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	Ref. No.	Part No.	Part Name
් ස		640174	Carburetor (Incl. 184 of Engine Parts List)
~8 , ∕₂	1	631615	Throttle Shaft & Lever Assembly
	2	631767	Throttle Return Spring
	4	*631184	Dust Seal Washer
	5	*631183	Dust Seal (Throttle)
	l õ	640070	Throttle Shutter
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	17	*650506	Shutter Screw
	16	631807	Fuel Fitting
	17	651025	Throttle Crack Screw/Idle Speed Screw
	18	630766	Tension Spring
The bill of the second se	20	640018	Idle Restrictor Screw
	20A	640200	Idle Restrictor Screw Cap
	25	631867	Float Bowl
	27	*631024	Float Shaft
204 29	28	632019	Float
	29	*631028	Float Bowl "O" Ring
	30	*631021	Inlet Needle, Seat, & Clip (Incl. 31)
	31	631022	Spring Clip
	35	36045A	Primer Bulb/Retainer Ring
27 27 27	36	640080	Main Nozzle Tube
	36A	632766	Carburetor Tube
	37	*632547	"O" Ring, Main Nozzle Tub
	40	640175	High Speed Bowl Nut
	44	27110A	Bowl Nut Washer
	47	*630748	Welch Plug, Idle Mixture Well
(sevent)	48	*631.027	Welch Plug, Atmospheric Vent
	48A	*631027	Welch Plug
	60	632760	Repair Kit (Incl. Items Marked *)
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REWIND STARTER NO. 590737



STARTER NO. 590694



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

	How to ORDER Repair Parts
SEARS	The Model Number can be found on a decal on the blower housing (See Figure 1). Always mention the Model Number when request- ing service or repair parts for your Craftsman Engine.
operator's	All parts listed herein may be ordered from any SEARS, ROE- BUCK 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.
manual	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
MODEL NO. 143.994024	
4.0 RESERVE POWER 10 CUBIC INCH (163 cc) DISPLACEMENT	
SOLID STATE IGNITION	
CAUTION: Read RULES for Safe OPERATION and INSTRUCTIONS Carefully	"Your Sears merchandise has added value when you consider that Sears has service units nationwide staffed with Sears trained technicians professional technicians specifically trained on Sears products, having the parts, tools and equipment to insure that we meet our pledge to you we service what we sell."

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