

OWNER'S

TECUMSEH

MODELS

OH120 **OH140**

OH180 HH100

OH160

HH120

HORIZONTAL CRANKSHAFT CAST IRON • AIR COOLED FOUR-CYCLE ENGINE

OH120, OH140, OH160, OH180



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 OPERATE YOUR TECUMSEH ENGINE.



THESE SYMBOLS MAY APPEAR ON THE ENGINE:







STOP

CHOKE

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Rev. 5-1-84

181-226-1

OIL & FUEL RECOMMENDATIONS

To start and operate your Tecumseh engine, you will need e following:

A CLEAN, HIGH QUALITY DETERGENT OIL. Be sure original container is marked: A.P.I. service "SF," "SE," "SD" or "SC."

DO NOT USE SAE10W40 OIL.

FOR SUMMER (ABOVE 32°F) USE SAE 30 OIL. (SAE10W30 is an acceptable substitute).

FOR WINTER (BELOW 32°F) USE SAE 5W20 or 5W30 OIL. (SAE10W is an acceptable substitute). (BELOW O'F ONLY):

SAE10W OIL diluted with 10% kerosene is an acceptable substitute.

SAEOW30 OIL is an acceptable substitute.

NOTE: For severe, prolonged, winter operation of HH120 model, SAE10W oil is recommended.

Oil Sump capacity is approximately 52 ounces (3-1/4

A FRESH, CLEAN, UNLEADED AUTOMOTIVE GASOLINE. (Leaded "Regular" grade gasoline is an acceptable substitute).

NOTE: DO NOT USE GASOLINE CONTAINING METHANOL (WOOD ALCOHOL). Gasoline containing a maximum of 10% ethanol or grain alcohol (sometimes called "Gasohol") may be used but requires special care when

engine is unused for extended periods. See "STORAGE" instructions on Page 5.

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

Page 1

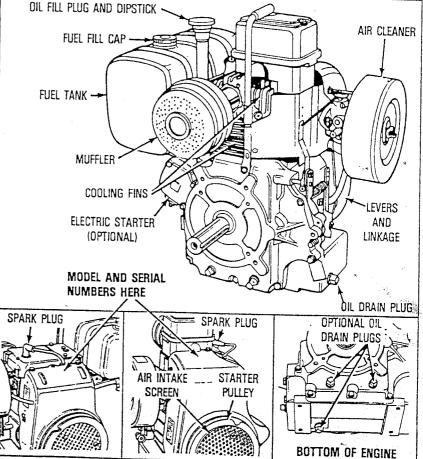


Figure 1

(continued on Page 2)

PRE-START INSTRUCTIONS

Read all instructions provided with the equipment on which this engine is used.

PILL OIL SUMP WITH OIL. See preceding "OIL & FUEL RECOMMENDATIONS," Item ① (Page 1) for correct oil and Figure 1 for oil fill locations.

POSITION EQUIPMENT SO ENGINE IS LEVEL.

Remove OIL FILL PLUG and DIPSTICK and place it on a clean surface.

Fill oil sump, slowly, to "full" mark on DIPSTICK. DO NOT OVERFILL. OIL FILL PLUG must be seated fully and tightened and locked securely into oil fill hole when checking oil level.

Oil level should be checked frequently during initial engine break-in period. OIL FILL PLUG must be seated fully and tightened and locked securely into oil fill hole when engine is running.

FILL FUEL TANK with gasoline as specified in the preceding "OIL & FUEL RECOMMENDATIONS," Item (2) (Page. 1).

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 WHILE ENGINE IS HOT.



NEVER FILL FUEL TANK COMPLETELY. FILL TANK TO WITHIN 1/4 TO 1/2 INCH OF TOP OF TANK TO PROVIDE SPACE FOR FUEL EXPANSION. WIPE ANY FUEL SPILLAGE FROM ENGINE AND EQUIPMENT BEFORE STARTING ENGINE.

5 CHECK THE FOLLOWING before attempting to start your engine:



- A. BE SURE EQUIPMENT IS IN NEUTRAL GEAR WITH CLUTCHES, BELTS, CHAINS, ETC., 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)
- C. Be sure any ignition switch on engine or equipment is in ON, RUN or START position.
- D. Be sure FUEL SHUT-OFF VALVE (if so equipped) is open. (see Figure 6)
- E. Be sure FUEL FILL CAP air vent is open.

STARTING INSTRUCTIONS



NEVER RUN ENGINE INDOORS OR IN ENCLOSED POORLY VENTILATED AREAS. ENGINE EXHAUST CON TAINS CARBON MONOXIDE, AN ODORLESS AND DEADLY GAS.



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



WARNING — TEMPERATURE OF MUFFLER AND NEAR BY AREAS MAY EXCEED 150°F (65°C). AVOID THES AREAS.

- Move CHOKE LEVER on engine (see Figure 3) or remote control on equipment to FULL CHOKE POSITION.
- Move remote control on equipment to START position (se equipment manufacturer's instructions).
- 3 START ENGINE Proceed with the following instruction: A ELECTRIC STARTER, B. ROPE STARTER-or-C.-REWINI STARTER depending on type of starter.

A. ELECTRIC STARTER - 12 VOLT DC (see Figures 2 & 3)

- Press starter button or turn IGNITION SWITCH KEY (se Figure 2) per equipment manufacturer's instructions to activate starter motor and crank engine.
- Crank engine until engine starts, and when engine starts move CHOKE LEVER on engine or remote control on equipment to 1/2 choke and then to NO CHOKE POSI-TION.

If engine falters, move CHOKE LEVER to 1/2 choke position until engine runs smoothly and then to NO CHOKE POSITION.

NOTE: If engine fires, but fails to start, move CHOKE LEVER to NO CHOKE POSITION and crank engine untengine starts.

B. ROPE STARTER (see Figures 2 and 3)

- Insert rope knot into starter PULLEY notch and wind rope, clockwise, around PULLEY.
- Grasp rope handle and pull rope out, slowly, until it pulle slightly harder.
- Rewind any excess rope around starter PULLEY and pur rope with a rapid continuous full arm stroke.
- Repeat preceding Instructions 1, 2 and 3 until engine starts and when engine starts, move CHOKE LEVER of engine or remote control on equipment to 1/2 choke and then to NO CHOKE POSITION.

If engine falters, move CHOKE LEVER to 1/2 choke postion until engine runs smoothly and then to NO CHOKE POSITION.

NOTE: If engine fires, but fails to start, move CHOK LEVER to NO CHOKE POSITION and repeat preceding Instructions 1 thru 4 until engine starts.

.C. REWIND STARTER (see Figures 2 and 3)

- Grasp STARTER HANDLE (see Figure 2) and pull rope out, slowly, until it pulls slightly harder. Let rope rewind slowly.
- Pull rope with a rapid continuous full arm stroke. Let rope rewind SLOWLY. Don't let STARTER HANDLE snap back against starter.
- Repeat preceding Instructions 1 and 2 until engine starts and when engine starts, move CHOKE LEVER on engine or remote control on equipment to 1/2 choke and then to NO CHOKE POSITION.

If engine falters, move CHOKE LEVER to 1/2 choke position until engine runs smoothly and then to NO CHOKE POSITION.

NOTE: If engine fires, but fails to start, move CHOKE LEVER to NO CHOKE POSITION and repeat preceding Instructions 1 and 2 until engine starts.

IGNITION SWITCH KEY A. ELECTRIC B. ROPE C. REWIND

Figure 2

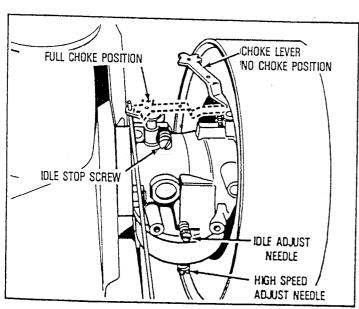


Figure 3

TO STOP ENGINE

- Move remote control on equipment or any ignition stop swit on engine to STOP or OFF position (see equipment mar facturer's instructions).
- Push STOP SWITCH (if so equipped) (see Figure 5) and hold down until engine is completely stopped.
- (3) AFTER ENGINE IS STOPPED:
 - A. Close FUEL SHUT-OFF VALVE (if so equipped) (see Figure 6).
 - B. Close FUEL FILL CAP air vent (if so equipped).



C. DISCONNECT SPARK PLUG WIRE FROM SPAR PLUG AND PLACE IT WHERE IT CAN NOT CONTAC SPARK PLUG.



D TURN IGNITION SWITCH KEY, IF SO EQUIPPED, T
"OFF" POSITION AND REMOVE KEY FROM SWITCH
THIS WILL REDUCE THE POSSIBILITY O
UNAUTHORIZED STARTING OF ENGINE WHILE
EQUIPMENT IS NOT IN USE.



E. NEVER STORE ENGINE WITH FUEL IN TANK IN DOORS OR IN ENCLOSED, POORLY VENTILATED ENCLOSURES, WHERE FUEL FUMES MAY REACH AT OPEN FLAME, SPARK OR PILOT LIGHT AS ON FURNACE, WATER HEATER, CLOTHES DRYER, ETC

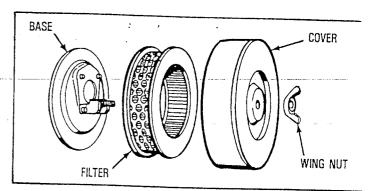


Figure 4

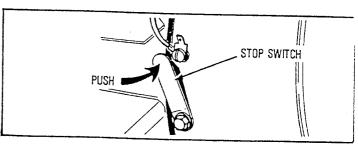


Figure 5

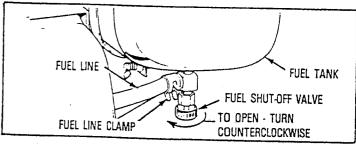


Figure 6

INTENANCE

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WARNING — TEMPERATURE OF MUFFLER AND NEAR-BY AREAS MAY EXCEED 150°F (65°C). AVOID THESE AREAS.

1) CHECK OIL LEVEL REGULARLY.

POSITION EQUIPMENT SO ENGINE IS LEVEL.

Check level every five (5) operating hours or each time equipment is used. Always clean area around OIL FILL PLUG (see Figure 1) before removing plug, to avoid contaminating oil with dirt, grass clippings, etc. Add oil as necessary. DO NOT RUN ENGINE UNLESS PROPER OIL LEVEL IS MAINTAINED. LEVEL MUST BE BETWEEN "FULL" AND "ADD" MARK ON DIPSTICK. See Instructions ② and ③ in preceding "PRESTART INSTRUCTIONS" (page 2).

 CHANGE OIL — after first two (2) hours of operation and every twenty-five (25) hours thereafter, or more often if operated in extremely dusty or dirty areas.

DRAIN OIL — Position equipment so that engine OIL DRAIN PLUG (see Figure 1) is lowest point on engine. Remove OIL DRAIN PLUG and OIL FILL PLUG (while engine is still warm) and allow oil to drain completely.

Replace OIL DRAIN PLUG and tighten securely. Refill oil sump with new oil of proper viscosity and service classification per preceding "OIL & FUEL RECOMMENDATIONS" (Page 1). Replace OIL FILL PLUG and tighten securely. See Instructions ② and ③ in preceding "PRE-START INSTRUCTIONS" (Page 2).

3) SERVICE AIR CLEANER (see Figure 4)

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 Authorized Tecumseh Service Outlet.

To install new FILTER, proceed as follows:

- A. Remove WING NUT, COVER and FILTER. Discard FILTER.
- B. Clean inside of BASE and COVER thoroughly.
- C. Insert new FILTER into COVER and reassemble to BASE with WING NUT. Tighten WING NUT securely.

NEVER RUN ENGINE WITHOUT COMPLETE AIR CLEANER INSTALLED ON ENGINE.

- (4) SPARK PLUG Check periodically.
 - A. Clean area around SPARK PLUG base.
 - B. Remove and inspect SPARK PLUG.
 - C. Replace SPARK PLUG if electrodes are pitted or burned or if porcelain is cracked. Replace as follows:

For HH100 and HH120 use Champion J8 or Autolite 356 or equivalent.

For OH120, OH140 and OH160 use Champion L-82C or L-85 or equivalent.

For OH180 use Champion N-4C or N-4 or equivalent.

NOTE: If engine has a Champion RJ-17LM, RL-82C, RL-85, RN-4C or RN-4 resistor SPARK PLUG it should be replaced with a Champion RJ-17LM, RL-82C, RL-85, RN-4C or RN-4 only. See Page 6 for "CANADIAN RADIO FREQUENCY INTERFERENCE REGULATION COMPLIANCE" information.

- D. If reusing SPARK PLUG clean it by carefully scraping electrodes (Don't wire brush or sand blast). Be sure entire SPARK PLUG is clean.
- E. Check electrodes gap with wire feeler gauge_and_set_gap_at_ .030 if necessary.
- F. Install SPARK PLUG in engine and tighten to 15 foot pounds torque or if lacking torque wrench, tighten securely.
- $(\mathsf{5})$ alternator and battery

20 AMP ALTERNATOR

- A. This system is fully automatic and requires no adjustment. Battery voltage is regulated to prevent over-charge.
- B. If electrical malfunctions such as inoperative starter, discharged battery etc., are encountered, see equipment manufacturer's instructions for fuse replacement and other electrical repairs.

BATTERY SERVICE

- A. When servicing battery, be sure to connect cables to battery exactly as they were before removal (connect ground cable to battery negative [— or neg.] post). If incorrectly connected, alternator will not charge battery, and rectifierregulator may be damaged.
- B. Never expose engine magneto to battery power. If battery cable or any live wire contacts magneto ground wire, engine ignition system may be damaged.
- C. If an external charger is used on battery, disconnect battery positive (+ or pos.) cable from battery to prevent possible damage.
- D. See Battery manufacturer's instructions for service and storage.
- 6 COOLING SYSTEM Clean frequently.

Remove any grass clippings, dirt, etc. from COOLING FINS. AIR INTAKE SCREEN and LEVERS AND LINKAGE (see Figure 1). This will help ensure adequate cooling and correct engine speed.



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

ADJUSTMENTS

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

(1) CARBURETOR ADJUSTMENTS (see Figure 7)

A. HIGH SPEED ADJUST NEEDLE (if so equipped) is pre-set at the factory.

HH100, HH120: 1-3/4 turns open. OH120, OH140, OH160, OH180: 1 turn open.

Readjustment should not be necessary.

NOTE: Some models will not have HIGH SPEED ADJUST NEEDLE.

- B. Close IDLE ADJUST NEEDLE by turning clockwise. Close finger tight only. Forcing may cause damage.
- C. Open IDLE ADJUST NEEDLE by turning counterclockwise.

For HH100, HH120: 1-1/4 turns open. For OH120, OH140, OH160, OH180: 1 turn open.

D. Start engine — Follow preceding "STARTING INSTRUCTIONS". Run engine a few minutes to warm it up.

BE SURE EQUIPMENT IS IN NEUTRAL GEAR WITH CLUTCHES, BELTS, CHAINS, ETC., DISENGAGED (FOLLOW EQUIPMENT MANUFACTURER'S INSTRUCTIONS).

E. With engine running at high speed (remote control equipment set at RUN, FAST, or HIGH position), adjust IDLE ADJUST NEEDLE 1/8 turn at a time, clockwise or counterclockwise, until engine runs smoothly.

Allow several seconds between each adjustment for engine to adapt to new setting.

F. With engine running at IDLE speed (remote control on equipment set at IDLE, SLOW or LOW position), adjust IDLE STOP SCREW to obtain correct idle speed. If necessary, re-adjust IDLE ADJUST NEEDLE by turning clockwise or counterclockwise as in preceding Instruction E. until engine idles smoothly.

2

NEVER TAMPER WITH ENGINE GOVERNOR WHICH IS FACTORY SET FOR PROPER ENGINE SPEED. OVER-SPEEDING ENGINE ABOVE FACTORY HIGH SPEED SETTING CAN BE DANGEROUS. IF YOU THINK THE ENGINE GOVERNED HIGH SPEED NEEDS ADJUSTING, CONTACT YOUR NEARBY AUTHORIZED TECUMSEH SERVICE OUTLET, WHO HAS THE PROPER EQUIPMENT AND EXPERIENCE TO MAKE ANY NECESSARY ADJUSTMENTS.

CHANGING OF ENGINE GOVERNED SPEED WILL VOID ENGINE WARRANTY.

STORAGE



NEVER STORE ENGINE WITH FUEL IN TANK INDOOR OR IN ENCLOSED, POORLY VENTILATED ENCLOSURES WHERE FUEL FUMES MAY REACH AN OPEN FLAME SPARK OR PILOT LIGHT AS ON A FURNACE, WATER HEATER, CLOTHES DRYER, ETC.

If engine is to be un-used for 30 days or more, prepare as follows:

1 Remove all gasoline from CARBURETOR and FUEL TANK to prevent gum deposits from forming on these parts and causin possible malfunction of engine.



DRAIN FUEL INTO APPROVED CONTAINER OUTDOORS, AWAY FROM OPEN FLAME

- A. Run engine until FUEL TANK is empty and engine stops due to lack of fuel.
- B. Disconnect FUEL LINE at CARBURETOR or FUEL TANK Be very careful not to damage FUEL LINE, Fittings or FUEI TANK. Drain any remaining fuel from System

NOTE: If "Gasohol" has been used, complete preceding Instructions "A" and "B" and then put a small amount of unleaded (or leaded regular) gasoline into fuel tank and repeat preceding Instructions "A" and "B".

- If oil has not been changed recently, this may be a good time to do it. See "CHANGE OIL" instructions in "MAINTENANCE" section.
- Remove SPARK PLUG and pour one (1) ounce (0,029 Liter) of engine oil into spark plug hole. Crank engine over, slowly, several times.



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

Replace SPARK PLUG.

Clean engine by removing any clippings, dirt, or chaff from exterior of engine.

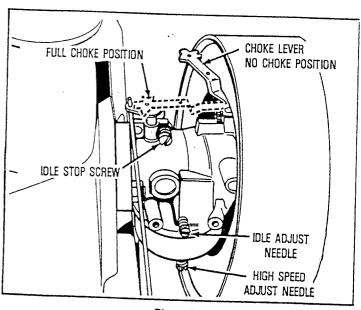


Figure 7

CANADIAN RADIO FREQUENCY INTERFERENCE REGULATION COMPLIANCE:

If your engine is equipped with a champion RJ-17LM, RL-82C, RL-85, RN-4C or RN-4 resistor spark plug, it is in compliance with the radio noise limitations order (radio frequency interference) issued by the Ministry of Communications Telecommunications Regulations Branch.

COMPLIANCE WITH RADIO INTERFERENCE REGULATIONS CERTIFIED. CERTIFIÉ CONFORME AU REGLEMENT SUR LE BROUILLAGE RADIO ELECTRIQUE.

To remain in compliance a champion RJ-17LM (for HH100 and HH120), RL-82C or RL-85 (for OH120, OH140, OH160) or RN-4C or RN-4 (for OH180) resistor spark plug must be used for any replacement.



For engine adjustments, repairs, or warranty service not covered in this manual, contact your nearest AUTHORIZED TECUMSEH SERVICE OUTLET. He is listed in your telephone book yellow pages under "Engines, Gasoline."

Tecumseh manufactures and is responsible only for the engine used on this power equipment. If repair or service is needed for unit, other than engine, contact service source as recommended by equipment manufacturer.

LIMITED WARRANTY FOR NEW TECUMSEH ENGINES

A. Products Warranted

Tecumseh Products Company ("Tecumseh"), subject to the exclusions and limitations contained below, will, at its option, repair or replace, without charge for parts or labor only," any part of a new Tecumseh engine (EXCEPT any new engine used to power two-wheeled riding type vehicle or chain saw) which is found upon examination by any Tecumseh Authorized Service Outlet or by Tecumseh's factory in Grafton, Wisconsin to be DEFECTIVE IN MATERIAL AND/OR WORKMANSHIP if received by Tecumseh or a Tecumseh Authorized Service Outlet for such examination within ONE YEAR (TWO years for Snow King, walk-behind snowthrower application engines; 18 months for TVXL105 and TVS105XL) from the date of sale to the original purchaser. New Tecumseh engines used to power two-wheeled riding type vehicles (including, by way of example but not limited to, mini-bikes, trail bikes and scooters) are warranted in the same manner and to the same extent EXCEPT that such new engines are warranted for NINETY (90) DAYS ONLY, and must be received by Tecumseh or a Tecumseh Authorized Service Outlet for such examination within 90 days from the date of sale to the original purchaser. New Tecumseh engines used to power any chain saw are warranted in the same manner and to the same extent EXCEPT that such engines are warranted for THIRTY (30) DAYS ONLY, and must be received by Tecumseh or a Tecumseh Authorized Service Outlet for such examination within 30 days from the date of sale to the original purchaser.

B. Products And Items Not Warranted

1. Engines used in competitive racing or on commercial or rental tracks.

This warranty does not cover any Tecumseh engine or part(s) thereof used to power any vehicle in competitive racing and/or used on any commercial or rental track.

2. Engines or parts not manufactured or sold new by Tecumseh.

This warranty does not cover any engine or part thereof which was not manufactured or sold, as new, by Tecumseh to the original purchaser.

3. Alterations or modifications of new Tecumseh engines or parts.

All obligations under this warranty shall be terminated if the new Tecumseh engine or part thereof is altered or modified in any way.

4. Accidents, normal maintenance, failure to follow the original equipment manufacturer's manual.

This warranty covers only new Tecumseh engines and parts thereof which are found upon examination by Tecumseh to be defective in material or workmanship as delivered to the original purchaser. This warranty does not cover defects caused by depreciation or damage caused by normal wear, accidents, improper maintenance, improper use or abuse of the product, or failure to follow the instructions contained in an instruction Manual for the operation of the new Tecumseh engine or part. The cost of normal maintenance and replacement of service items which are not defective shall be paid for by the original purchaser.

C. Securing Warranty Service

Warranty service can be arranged for by contacting either a Tecumseh Authorized Service Outlet (any Tecumseh Registered Service Dealer, Tecumseh Authorized Service Distributor, or Tecumseh Central Warehouse Distributor) or by contacting Tecumseh, c/o Service Manager, Engine and Gear Service Division, 900 North Street, Grafton, Wisconsin 53024. Warranty service can only be performed by a Tecumseh Authorized Service Outlet or by Tecumseh at its factory in Grafton, Wisconsin. 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.

D. Limitation of Damages and Implied Warranties

The foregoing EXPRESSED WARRANTY IS IN JUEU OF ALL OTHER EXPRESS WARRANTIES. Neither Tecumseh nor any of its affiliates makes any warranties, representations or promises, written or oral, as to the quality of the engine or any of its parts, other than as set forth herein.

ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, TO THE EXTENT THAT EITHER MAY APPLY TO ANY TECUMSEH ENGINE OR PARTICS) THEREOF, SHALL BE LIMITED IN DURATION TO THE PERIODS OF THE EXPRESSED WARRANTIES DEFINED IN PARAGRAPH A HEREOF. IN NO EVENT WILL TECUMSEH BE LIABLE FOR ANY INCIDENTAL, CONSEQUENTIAL OR SPECIAL DAMAGES AND/OR EXPENSES. Some states do not allow limitations on how long an implied warranty lasts or the exclusion or limitation of incidental or consequential damages, so the above limitation(s) or exclusions(s) may not apply to you. This warranty gives you specific legal rights and you may also have other legal rights which vary from state to state.

E. No Dealer Warranty

Tecumseh neither assumes nor authorizes any other person, natural or corporate, to assume for Tecumseh any other obligations or liabilities in connection with or with respect to any part(s) of a Tecumseh engine. The seller or dealer of part(s) of a Tecumseh engine has no authority, whatsoever, to make any representations or promises on behalf of Tecumseh or to modify the terms or limitations of Tecumseh's warranty in any way.



TECUMSEH PRODUCTS COMPANY

ENGINE AND GEAR SERVICE DIVISION • 900 NORTH STREET • GRAFTON, WISCONSIN, 53024, U.S.A.



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Canada

Tecumseh Service Directory



TECUMSEH PRODUCTS COMPANY ENGINE AND GEAR SERVICE DIVISION

GRAFTON, WISCONSIN 53024

CANADA CENTRAL WAREHOUSE DISTRIBUTORS

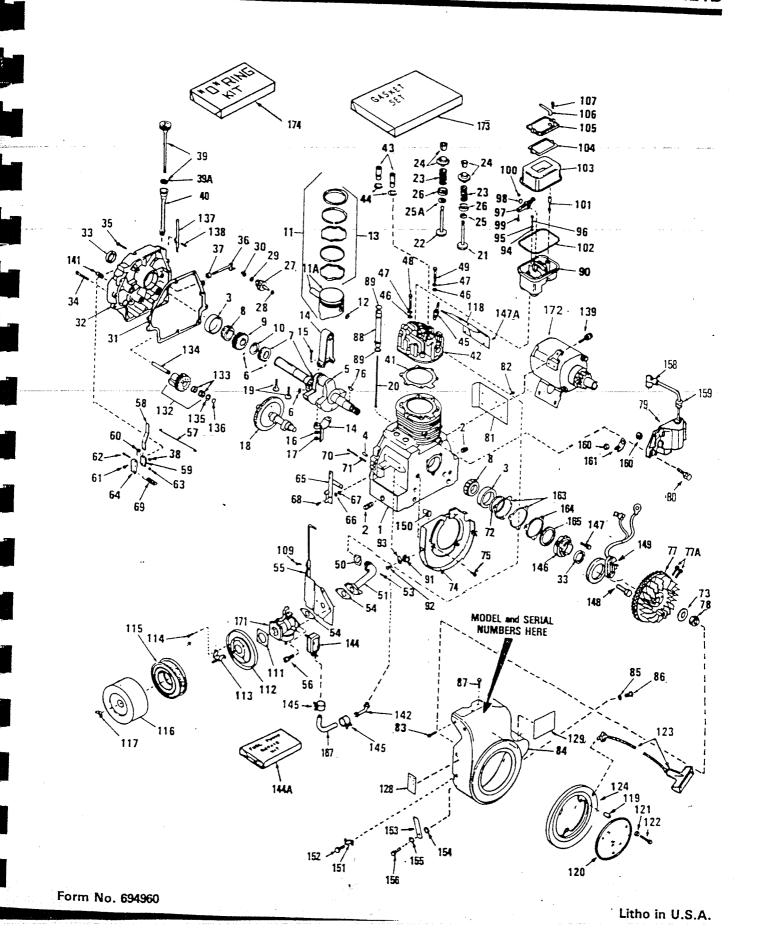
SUNTESTER EQUIP. (CENTRAL) LTD. 13315 146th St. Edmonton, Alberta, Canada T5L 4S8 Area Code 403-453-5791

SUNTESTER EQUIP. (CENTRAL) LTD. 5466 Timberlea Blvd. Mississauga, Ontario, Canada L4W 2T7 Area Code 416-624-6200

P.O. Box 610, Lencester, Ontario, Canada KOC 1NO [613] 347-2483 [514] 879-1129 Telex 05-811567

TECUMSEH 4-CYCLE ENGINE

MODEL NUMBER: OH160-170124D



P.O. Box 610, Lancaster, Ontario, Canada KOC 1NO [613] 347-2483 [514] 879-1129 Telex 05-811567

TECUMSEH 4-CYCLE ENGINE

MODEL NUMBER: 0H160-170124D

Ref. Part No. No. Part Name Ref. Part No. Part Name			MODEL N			UMBER: OH160-170124D	
3,57074 3,57	 	No.	···	Ref.	Part		
Second Company Page							
277652			1 Plug, Pipe (3/8-18, Sq. hd.)				
5			Cup, Bearing			Tube. Oil fill	
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6 29783 Pin, Crankshaft gaer 44 73/199 74/199	1		10)			Head, Cylinder	
Gar, Crankshaft Sarie Sa		29783				Valve Guide Kit (Incl. No. 44)	
8 31932 Bearing, Tapered roller			Gear, Crankshaft			Ring, Retaining	
10 33495 Spacer			Bearing, Tapered roller	1	3305/	Plug, Spark (Champion L-85 or	
11 34513 Salest	•		Gear, Crankshaft counterbalance	45	34046	Resistor Spark Plus (Canadian Results	
Nos. 11A, 12 & 13 Sastize Sas						tions require RI -85 resistor spark plug	
11 34512 Paton, Pin & Ring Assy. (.010 oversize) 50 Size (lincl. Nos. 11) Paton, Pin & Ring Assy. (.020 oversize) 50 Size (lincl. Nos. 11) Paton, Pin & Ring Assy. (.030 oversize) 51 Size (lincl. Nos. 11) Paton, Pin & Ring Assy. (.040 oversize) 52 Size (lincl. Nos. 12) Paton & Pin Assy. (.040 oversize) 51 Size (lincl. Nos. 12) Paton & Pin Assy. (.040 oversize) 52 Size (lincl. Nos. 12) Paton & Pin Assy. (.040 oversize) 53 Size (lincl. Nos. 12) Paton & Pin Assy. (.030 oversize) 59 Size (lincl. Nos. 12) Paton & Pin Assy. (.030 oversize) 59 Size (lincl. Nos. 12) Paton & Pin Assy. (.030 oversize) 59 Size (lincl. Nos. 12) Paton & Pin Assy. (.030 oversize) 59 Size (lincl. Nos. 12) Paton & Pin Assy. (.040 oversize) 65 Size (lincl. Nos. 12) Paton & Pin Assy. (.040 oversize) 65 Size (lincl. Nos. 12) Paton & Pin Assy. (.040 oversize) 65 Size (lincl. Nos. 12) Paton & Pin Assy. (.040 oversize) 65 Size (lincl. Nos. 12) Paton & Pin Assy. (.040 oversize) 65 Size (lincl. Nos. 12) Paton & Pin Assy. (.040 oversize) 65 Size (lincl. Nos. 12) Paton & Pin Assy. (.040 oversize) 65 Size (lincl. Nos. 12) Paton & Pin Assy. (.040 oversize) 65 Size (lincl. Nos. 12) Paton & Pin Assy. (.040 oversize) 65 Size (lincl. Nos. 12) Paton & Pin Assy. (.040 oversize) 65 Size (lincl. Nos. 15) Paton & Pin Assy. (.040 oversize) 65 Size (lincl. Nos. 15) Paton & Pin Assy. (.040 oversize) 65 Size (lincl. Nos. 15) Paton & Pin Assy. (.040 oversize) 65 Size (lincl. Nos. 15) Paton & Pin Assy. (.040 oversize) 65 Size (lincl. Nos. 15) Paton & Pin Assy. (.040 oversize) 65 Size (lincl. Nos. 15) Paton & Pin Assy. (.040 oversize) 65 Size (lincl. Nos. 15) Paton & Pin Assy. (.040 oversize) 70 Paton	''	0.011	Nos 114 12 G 12)			Washer, Belleville	
11 34513 Steel (Incl. Nos. 11A, 12 & 13) 515 515 516 517 518	11	34512	Piston, Pin & Ring Assy / 010 over			Washer, Flat	
Picton, Pin & Ring Assy. (.020 oversize) 11			size) (Incl. Nos. 11A, 12 & 13)			Screw, Hex hd., 5/16-18 x 1-3/4	
11 34524 Size (Incl. Nos. 11A, 12 & 13) 513 33476 513 33476 513 33476 513 34525 5150n, Fin & Ring Assy. (.040 oversize) 51 51 51 51 51 51 51 5	11	34513	Piston, Pin & Ring Assy. (.020 over-			Screw, Hex hd., 5/16-18 x 1-3/8	
11 34525 Piston, Pin & Ring Assy. (.030 oversize) 53 33470 33470 33471 32238 32238 3146 33470 33471 32238	11	24524	Size) (Incl. Nos. 11A, 12 & 13)			Pine Intake pipe	
11	1 11	34524	Piston, Pin & Ring Assy. (.030 over-		792028	Screw. Hex hd. Sems 5/16-18 v 7/0	
11A 32238B 11Act 11A 12 G 13 13 14 12 G 13 13 14 12 G 13 13 13 14 13 14 15 16 16 16 16 16 16 16	11	34525	Piston Bin & Bin A 12 & 13)	54		Gasket, Carburetor	
11A 32238B Picton 6 Pin Assy. (1010 oversize) 58 31963 319			size) (Incl. Nos. 11A 12 G. 12)	55		Baffle, Air extension	
11A 32238B Piston & Pin Assy. (.070 oversize) 58 31956 1			Piston & Pin Assy, (Std) (Incl. No. 12)			Screw, Fil. hd. Sems, 5/16-18 x 1-1/8	
11A 32240B Clamp, Governor lever Clamp, Governor spring, Lock Clamp, Governor lever Clamp, Governor lever Clamp, Governor lever Clamp, Governor lever Clamp, Governor spring Clamp, Governor lever Clamp	11A		Piston & Pin Assv. (.010 oversize)			Link, Governor lever-to-throttle	
11A 32621B Piston F Pin Assy. (.020 oversize) 61 30312 Piston F Pin Assy. (.030 oversize) 62 650548 30312 Piston F Pin Assy. (.040 oversize) 62 650544 7975			(Incl. No. 12)			Clamp Governor adjusting	
11A 32621B	11A	32240B	Piston & Pin Assy. (.020 oversize)			Lockyscher No. 10 E.T.	
(Incl. No. 12)	11 1	226210	(Incl. No. 12)	61		Screw. Hex washer hd. Sems. 10.32	
11A 3262B Piston & Pin Assy. (.040 oversize) 63 7375 10cl. No. 120 120 10cl. No. 120 120 10cl. No. 120 1	117	320218	Piston & Pin Assy. (.030 oversize)			1/2	
(Incl. No. 12)	11A	32622B	Piston & Pin Ages / 040			Screw, Pan flex hd., 10-24 x 7/8	
12 31919 Ring, Piston pin retaining 65 31984A 22588 31984A 22424 Ring Set, Piston (.010 oversize) 67 31968 31984A 22424 Ring Set, Piston (.020 oversize) 68 650597 31968 31968 31968 31968 31984A 22584 31956 31968 31968 31984A 22584 31956 31968 31968 31968 31984A 22584 31956 31968			(Incl. No. 12)			Nut, Square, 10-24	
13 32241 Ring Set, Piston (Std.) 666 28558 Washer, Spring wave 31938 String Set, Piston (.020 oversize) 67 31968 String Set, Piston (.020 oversize) 68 34021 32626 Ring Set, Piston (.020 oversize) 69 34021 330934 Rod Assy., Connecting (Std.) (Incl. 71 33099 73 32593 Rod Assy., Connecting (.010 undersize) 14 34384 Rod Assy., Connecting (.020 undersize) 15 32077 Rod Assy., Connecting (.020 undersize) 16 26073 Rod Assy., Connecting rod 76 805521 Rod Assy., Connecting rod 77 77 77 77 77 77 77		31919	Ring, Piston pin retaining			Plate, Governor spring	
13 32242 Ring Set, Piston (.010 oversize) 63 650397 332645 Ring Set, Piston (.020 oversize) 69 650397 34021 32626 Ring Set, Piston (.030 oversize) 69 34021 32626 Ring Set, Piston (.040 oversize) 70 70 70 70 70 70 70 7			Ring Set, Piston (Std.)			Machae Carina Assault	
13 3243 Strong Set, Piston (.020 oversize) 68 68 650597 33625 Strong Set, Piston (.030 oversize) 69 34021 Strong Set, Piston (.030 oversize) 70 Strong Set, Piston (.030 oversize) 71 Strong Set, Piston (.030 oversize) 71 Strong Set, Piston (.030 oversize) 72 Strong Set, Piston (.030 oversize) 73 Strong Set, Piston (.030 oversize) 74 Strong Set, Piston (.030 oversize) 75 Strong Set, Piston (.030 oversize) 75 Strong Set, Piston (.030 oversize) 76 Strong Set, Piston (.030 oversize) 77 Strong Set, Piston (.030 oversize) 77 Strong Set, Piston (.030 oversize) 77 Strong Set, Piston (.030 oversize) 78 Strong Set, Piston (.030 oversize) 78 Strong Set, Piston (.030 oversize) 79 Strong Set, Piston (.030 oversize) 79 Strong Set, Pistong			Ring Set, Piston (.010 oversize)			Rushing Governor lover	
13 326.25 Ring Set, Piston (.030 oversize) 70 70 70 70 70 70 70 7			Ring Set, Piston (.020 oversize)			Screw. Hex washer hd 10-24 v 5/9	
14 33093A Rod Assy., Connecting (Std.) (Incl. Nos. 15, 16 & 17) 33095 72 73 7308 73 73 7308 74 74 74 75 75 75 75 75		32626	Ring Set, Piston (.030 oversize)			Spring, Governor	
14 34383 Nos. 15, 16 & 17) Rod Assy., Connecting (.010 undersize) (Incl. Nos. 15, 16 & 17) Rod Assy., Connecting (.020 undersize) (Incl. Nos. 15, 16 & 17) Bott, Connecting rod			Rod Assy Connecting (CAL) (Inc.)			Screw, Fil. hd., 10-24 x 2	
14 34383 Rod Assy., Connecting (.010 undersize) (Incl. Nos. 15, 16 & 17) Rod Assy., Connecting (.020 undersize) (Incl. Nos. 15, 16 & 17) Rod Assy., Connecting (.020 undersize) (Incl. Nos. 15, 16 & 17) Rod Assy., Connecting (.020 undersize) (Incl. Nos. 15, 16 & 17) Rod Assy., Connecting (.020 undersize) (Incl. Nos. 15, 16 & 17) Rod Assy., Connecting (.020 undersize) (Incl. Nos. 15, 16 & 17) Rod Assy., Connecting (.020 undersize) (Incl. Nos. 15, 16 & 17) Rod Assy., Connecting (.020 undersize) (Incl. Nos. 15, 16 & 17) Rod Assy., Connecting (.020 undersize) (Incl. Nos. 15, 16 & 17) Rod Assy., Connecting (.020 undersize) (Incl. Nos. 15, 16 & 17) Rod Assy., Connecting (.020 undersize) (Incl. Nos. 15, 16 & 17) Rod Assy., Connecting (.020 undersize) (Incl. Nos. 15, 16 & 17) Rod Assy., Connecting (.020 undersize) (Incl. Nos. 15, 16 & 17) Rod Assy., Connecting (.020 undersize) (Incl. Nos. 15, 16 & 17) Rod Assy., Connecting (.020 undersize) (Incl. Nos. 15, 16 & 17) Rod Assy., Connecting (.020 undersize) (Incl. Nos. 15, 16 & 17) Rod Assy., Conecting (.020 undersize) (Incl. Nos. 15, 16 & 17) Rod Assy., Conecting (.020 undersize) (Incl. Nos. 15, 16 & 17) Rod Assy., Connecting (.020 undersize) (Incl. Nos. 15, 16 & 17) Rod Assy., Incl. Rod Assy., Inc			Nos. 15 16 & 17)			Spring, Locking	
14 34384 Size) (Incl. Nos. 15, 16 & 17) 75 75 75 75 75 75 75	14	34383	Rod Assy., Connecting (.010 under-			"O" Ring	
14	14	2.22	size) (Incl. Nos. 15, 16 & 17)			Reffle Player bouring	
Size (Incl. Nos. 15, 16 & 17)	14	34384	Rod Assy., Connecting (.020 under-			Screw Hex washer hd Durlok 1/4 20	
16	15	32077	size) (Incl. Nos. 15, 16 & 17)			x 5/8	
17			Washer Connecting rod			Key, Flywheel	
18			Nut Connecting rod (5/16/24)			Flywheel	
19	18		Camshaft (Machanical Compression		730201	Trigger Pin Kit	
19			Release)			Nut, Flywheel	
21 33505 Valve, Intake (Std.) Valve, Intake (1/32" oversize) 81 33479 33506 33506 34410 Yalve, Exhaust (1/32" oversize) 82 33506 33507 Spring, Valve Spring, Val			Lifter, Valve	75	010300	thru 161)	
21 33645 33646 22 33506 233506 233506 24 23 23 23 23 23 23 23			Rod, Push	80	650661		
22 33506 33506 340 4			Valve, Intake (Std.)			lockwasher, 1/4-20 x 3/4	
22 33646 Valve, Exhaust (1/32" oversize) 82 30638 650751 Spring, Valve Retainer & Cap Set, Keeper valve 70" Ring (Intake) 70" Ring (Exhaust) 85 8274 86 8274 86 8274 86 8274 86 8274 86 8274 86 8274 86 8274 86 8274 86 8274 86 8274 86 8274 86 8274 87 88 8274 8274 88 8274 88 8274 88 8274 827			valve, Intake (1/32" oversize)			Extension, Blower housing	
23 33507 33508 February Spring, Valve Spring, Valve Retainer & Cap Set, Keeper valve Spring, Valve Retainer & Cap Set, Keeper valve Spring, Valve Set	22		Valva Exhaust (1/22" oursing)			Screw, Hex hd. Sems. 1/4-20 x 1/2	
24	23	33507	Spring, Valve	ಚ	650751	Screw, Hex hd. w/conical spring	
25	24	33508	Retainer & Cap Set, Keeper valve	84	א ⊐בבכי		
25A 1*34410		*33509	"O" Ring (Intake)			nousing, Blower	
26 33510 Cap, Valve Gear & Shaft Assy., Governor Section 10 Screw, Hex hd. Sems, 1/4-20 x 7/16 Tube, Push rod "0" Ring Housing Assy., Rocker arm Grommet, Plastic Screw, Hex hd. Sems, 1/4-20 x 7/16 Tube, Push rod "0" Ring Housing Assy., Rocker arm Grommet, Plastic Screw, Pan hd. self-tapping, 8-18 x 3/8 31950 Seal, Oil Screw, Hex hd. Sems, 1/4-20 x 1 Screw, Hex hd. Sems, 1/4-20 x 2-1/4 Rod Assy., Governor Sage Screw, Hex hd. Sems, 1/4-20 x 2-1/4 Rod Assy., Governor Sage Screw, Hex hd. Sems, 1/4-20 x 2-1/4 Rod Assy., Governor Rod Spacer, Governor rod Ring Rod Revisions Screw, Hex hd. Sems, 1/4-20 x 2-1/4 Rod Assy., Governor Rod Ring Rod Revisions Rod Rod Revisions Rod Revisions Rod Revisions Rod Revisions Rod Revisions Rod Rod Revisions Rod Revisions Rod Revisions Rod Revisions			"O" Ring (Exhaust)			Screw Hex hd 5/16-24 = 2/9	
28 650745 Washer, Flat Washer, Flat Spool, Governor Gasket, Cylinder cover Cover Assy., Cylinder (Incl. Nos. 33, 134 & 141) 33 31950 Seal, Oil Screw, Hex hd. Sems, 1/4-20 x 1 Screw, Hex hd. Sems, 1/4-20 x 2-1/4 Rod Assy., Governor Gasket Screw, Governor Gasket Screw, Hex hd. Sems, 1/4-20 x 2-1/4 Rod Assy., Governor Gasket Screw, Governor Gasket Screw, Hex hd. Sems, 1/4-20 x 2-1/4 Rod Assy., Governor Gasket Screw, Flat Washer, Flat	20 27		Cap, Valve	87	650752	Screw, Hex hd. Sems. 1/4-20 x 7/16	
29 30590A Washer, Flat Spool, Governor Gasket, Cylinder cover Cover Assy., Cylinder (Incl. Nos. 33, 134 & 141) 33 31950 Seal, Oil Screw, Hex hd. Sems, 1/4-20 x 1 Screw, Hex hd. Sems, 1/4-20 x 2-1/4 Rod Assy., Governor 32425 Spacer, Governor rod Ring Housing Assy., Rocker arm Grommet, Plastic Screw, Pan hd. self-tapping, 8-18 x 3/8 "O" Ring Housing Assy., Rocker arm Grommet, Plastic Screw, Pan hd. self-tapping, 8-18 x 3/8 "Indicates Parts Included in Gasket Set, Ref. No. 173. †Indicates Parts Included in Plastic Screw, Pan hd. self-tapping, 8-18 x 3/8	28		Gear & Shaft Assy., Governor	88	33480	Tube, Push rod	
30 31948 Spool, Governor Gasket, Cylinder cover Cover Assy., Cylinder (Incl. Nos. 33, 134 & 141) 33 31950 Seal, Oil Screw, Hex hd. Sems, 1/4-20 x 1 35 650492 Screw, Hex hd. Sems, 1/4-20 x 2-1/4 36 32425 Rod Assy., Governor 38 22426 Spacer, Governor rod Ping Reptaining Parts Included in Parts Include	29		Washer Flat			"O" Ring	
31 31956A 34649 Gasket, Cyfinder cover Cover Assy., Cyfinder (Incl. Nos. 33, 134 & 141) Seal, Oil Screw, Hex hd. Sems, 1/4-20 x 1 Screw, Hex hd. Sems, 1/4-20 x 2-1/4 Rod Assy., Governor 32426 Spacer, Governor rod Ring Retaining 188 Series R	30					Housing Assy., Rocker arm	
32 34649 Cover Assy., Cyfinder (Incl. Nos. 33, 134 & 141) 33 31950 Seal, Oil 34 30564 Screw, Hex hd. Sems, 1/4-20 x 1 35 650492 Screw, Hex hd. Sems, 1/4-20 x 2-1/4 36 32425 Rod Assy., Governor 32426 Spacer, Governor rod 38 29193 Ring Retaining 4 Indicates Parts Included in Indicates Indicates Indicates Indicates Indicates Indicates Indi	31	31956A				Grommet, Plastic	
33 31950 Seal, Oil Seal, Oil Screw, Hex hd. Sems, 1/4-20 x 1 35 650492 Screw, Hex hd. Sems, 1/4-20 x 2-1/4 Rod Assy., Governor 32425 Spacer, Governor rod Spacer, Governor rod Pling Retaining 188 29193 Pling Retaining 198 29193	32	34649	Cover Assy., Cyfinder (Incl. Nos. 33.	52	·····	3/8 ran nd. self-tapping, 8-18 x	
34 30564 Screw, Hex hd. Sems, 1/4-20 x 1 35 650492 Screw, Hex hd. Sems, 1/4-20 x 2-1/4 36 32425 Rod Assy., Governor 37 32426 Spacer, Governor rod 38 29193 Ring Retaining	33	040==	134 & 141)		ļ	5/5	
35 650492 Screw, Hex hd. Sems, 1/4-20 x 2-1/4 Rod Assy., Governor 37 32426 Spacer, Governor rod 38 29193 Ring Retaining 17 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1				1			
36 32425 Rod Assy., Governor Gasket Set, Ref. No. 173. 37 32426 Spacer, Governor rod Indicates Parts Included in	35		Screw, Hex hd. Sems, 1/4-20 x 1			*Indicates Parts Instituted to	
37 32426 Spacer, Governor rod 38 29193 Ring Retaining the state of the	36		Rod Assy Governor			Gasket Set Ref. No. 173	
38 29193 Ring Poteining Tindicates Parts Included in	37	32426				i	
U Hing Kit, Heft. No. 174.	38			ļ	l	Tindicates Parts Included in	
		L	-			O HING KIT, HET. No. 174.	

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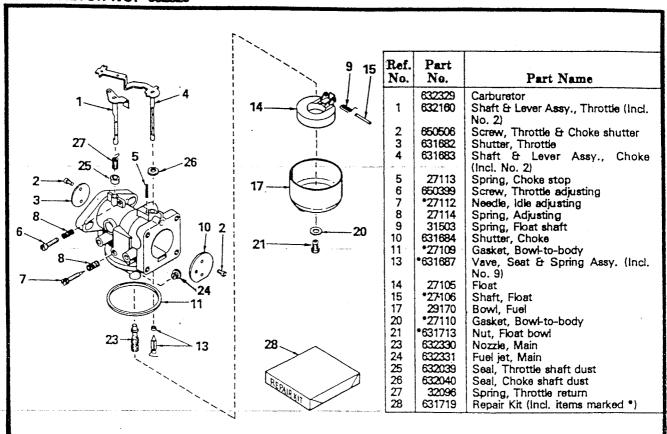
TECUMSEH 4-CYCLE ENGINE

MODEL NUMBER: OH160-170124D

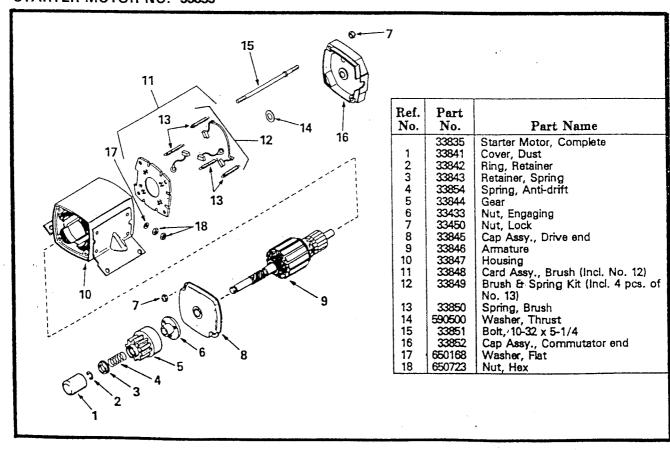
Ref.	Part		77. 6		
No.		_	Ref.	Part	
	No.	Part Name	No.	No.	Part Name
93	33356	Terminal, Ground	142	28566	Fitting, Fuel line
94	†*33484	"O" Ring	144	35018	Pump, Fuel
95	650168	Washer, Flat	144A	33010	Repair Kit, Fuel pump
96	32610A	Screw, Flanged hex hd., 1/4-20 x	145	26460	Clamp, Fuel line
		29/32	146	32577	Cover, Cylinder (See Note 1)
97	33485	Am, Rocker	147	792028	Screw, Hex hd. Sems, 5/16-18 x 7/8
98	33486	Ring, Retaining	147A	650736	Screw, Pan hd., 10-16 x 3/8
- 99	650755	Screw, Spherical Indented Hex hd.,	- 148 -	650399	Screw, Fil. hd. Sems, 10-32 x 5/8
100	25000.	1/4-20 x 3/4	149	610965	Stator Plate Assy.
100	650864	Nut, Hex, 1/4-20	150	29443	Clip
101	650756	Stud, Rocker arm cover	151	27793	Clip, Conduit
102	† * 33487	"O" Ring	152	28942	Screw, Hex hd. Sems, 10-32 x 3/8
103	33488	Cover, Rocker arm housing	153	32039	Switch, Stop
104	† * 31958	Gasket, Breather	154	16645	Washer, Lock, 5/16"
105	33489	Body Assy., Breather	155	26073	Washer, Flat
106	33490	Tube, Breather	156	650624	Screw, Hex hd., 5/16-24 x 9/16
107	† * 30102	Screw, Hex washer hd. Sems	158	610118	Cover, Spark plug
1		w/masticwasher, 10-32 x 5/8	159	610750	Grommet, Lead wire
109	650737	Screw, Hex washer hd. taptite, 1/4-20	160	610408	Nut, Hex, 8-32
1		x 1/2	161	610908	Terminal, Female
111	*33492	Gasket, Air cleaner bracket	163	*31971	Gasket, Shim (.004/.005 thick) (See
112	33493	Bracket, Air cleaner			Note 1)
113	33494	Bracket, Air cleaner	164	*31972	Gasket, Shim (.005/.007 thick) (See
114	650399	Screw, Fil. hd. Sems, 10-32 x 5/8			Note 1)
115	32008	Element, Air cleaner	165	*32031	Spacer, Steel (.010 thick) (See Note 1)
116	32810	Cover, Air cleaner	167	29774	Line, Fuel
117	650513	Nut, Wing (1/4-20)	171	632329	Carburetor (Incl. No. 54)
118	33495	Cover, Cylinder head	172	33835	Starter Motor Kit (12 Volt) (Incl. No.
119	31992	Spacer, Screen			139)
120	33776	Screen, Starter pulley	173	33516D	Gasket Set (Incl. items marked *)
121	27070	Washer, Lock (1/4")	174	35075	"O" Ring Kit (Incl. items marked †)
122	650680	Screw, Truss hd., 1/4-20 x 1-1/2			
123	32046	Rope Assy., Starter			*Indicates Parts Included in
124	31980	Pulley, Starter	ł		Gasket Set, Ref. No. 173.
128	34346	Decal, Instruction			†Indicates Parts Included in
129	34768	Decal, Name			"O" Ring Kit, Ref. No. 174.
132	34651	Weight Assy,, Counterbalance (Incl. 2			
122	20504	of No. 133)			Note 1: Determine the gap between
133	33501	Bearing, Needle roller			the cover and the machined surface on
134	33502	Shaft, Counterbalance			the cylinder, which can be from .001"
135	33503	Washer, Thrust			up to .007", in which case no shim
136	792017	Ring, Retaining	1		gaskets will be required. Use of
137	34650	Tube Extension, Oil fill			gaskets must be limited to a combined
138	650744	Screw, Fil. hd. Sems, 10-24 x 7/8			total of .010" thick. Steel spacers must
139	650781	Screw, Hex hd. Sems, 5/16-18 x 11/16			be used as required to eliminate
141	28534	Pipe Plug, Hex countersunk headless,			crankshaft end play.
L		1/8-27			

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CARBURETOR NO. 632329



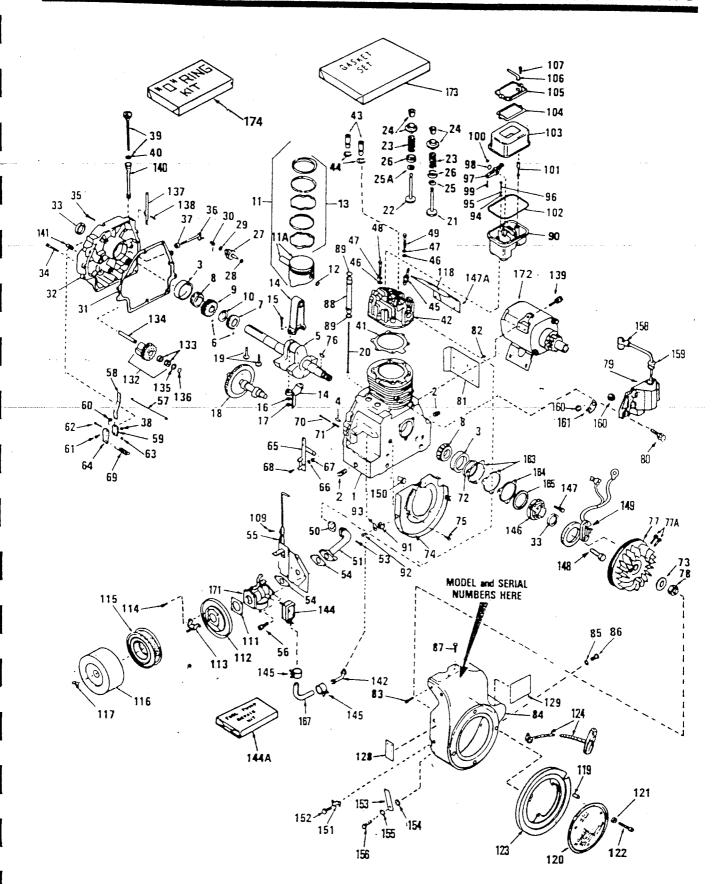
STARTER MOTOR NO. 33835



P.O. Box 610, Lancaster, Ontario, Canada KOC 1NO [613] 347-2483 [514] 879-1129 Telex 05-811567

TECUMSEH 4-CYCLE ENGINE

MODEL NUMBER: OH180-180017C



P.O. Box 610, Lencaster, Onterio, Canada KOC 1NO [613] 347-2483 [514] 879-1129 Telex 05-811567

TECUMSEH 4-CYCLE ENGINE MODEL NUMBER: 0H180-180017C

		TOTOLL LINGUISE			71110-10017C
Ref. No.	Part No.	Part Name	Ref. No.	Part No.	Part Name
1	34648A	Cylinder Assy. (Incl. Nos. 2, 4 & 33)	48	650692	Screw, Hex hd., 5/16-18 x 1-3/4
2	31927	Plug, Oil drain (Sq. hd., 3/8-18)	49	650746	Screw, Hex hd., 5/16-18 x 1-3/8
3	31928	Cup, Bearing	50	*33515	Gasket, Intake pipe
4	27652	Pin. Dowel	51	33475	Pipe, Intake
5	34820	Crankshaft Assy. (Incl. Nos. 3 & 6 thru	53	792028	Screw, Hex hd. Sems, 5/16-18 x 7/8
		10)	54	*33476	Gasket, Carburetor
6	29783	Pin, Crankshaft gear	55	33477A	Baffle, Air extension
7	34692	Gear, Crankshaft	56	650378	Screw, Fil. hd. Sems, 5/16-18 x 1-1/8
8	31932	Bearing, Tapered roller	57	33478	Link, Governor lever-to-throttle
9	33963	Gear, Crankshaft counterbalance	58	31963	Lever, Governor adjusting
10	33499	Spacer	59	31964	Clamp, Governor lever
11	34624	Piston, Pin & Ring Assy. (Std.) (Incl.	60	650518	Lockwasher, No. 10 E.T.
11	34625	Nos. 11A, 12 & 13) Piston, Pin & Ring Assy. (.010 over-	61	30312	Screw, Hex washer hd. Sems, 10-32 x 1/2
		size) (Incl. Nos. 11A, 12 & 13)	62	650544	Screw, Pan flex hd., 10-24 x 7/8
11	34626	Piston, Pin & Ring Assy. (.020 over-	ଞ	7975	Nut, Square, 10-24
• •	0.020	size) (Incl. Nos. 11A, 12 & 13)	64	31965	Plate, Governor spring
11A	34629	Piston & Pin Assy. (Std.) (Incl. No. 12)	65	31984A	Lever, Control
11A	34630	Piston & Pin Assy. (.010 oversize)	66	28558	Washer, Spring wave
	01000	(Incl. No. 12)	67	31966	Bushing, Governor lever
11A	. 34631	Piston & Pin Assy. (.020 oversize)	68	650597	Screw, Hex washer hd., 10-24 x 5/8
11/4	. 57001	(Incl. No. 12)	69	34021	Spring, Governor
12	34634		70	650591	
		Ring, Piston pin retaining			Screw, Fil. hd., 10-24 x 2
13	34635	Ring Set, Piston (Std.)	71	33099	Spring, Locking
13	34636	Ring Set, Piston (.010 oversize)	72	*32599	"O" Ring
13	34637	Ring Set, Piston (.020 oversize)	73	650666	Washer, Lock
14	34640	Rod Assy., Connecting (Incl. Nos. 15,	74	32579	Baffle, Blower housing
		16 & 17) (Std.)	75	650561	Screw, Hex washer hd. Durlok, 1/4-20
14	35243	Rod Assy., Connecting (Incl. Nos. 15, 16 & 17) (.010 undersize)	76	650592	x 5/& Key, Flywheel
14	35244	Rod Assy., Connecting (Incl. Nos. 15,		610967	-Flywheel (Incl. No. 77A)
		16 & 17) (.020 undersize)	77A	730201	Trigger Pin Kit
15	32077	Bolt, Connecting rod	78	650594	Nut, Flywheel
16	26073	Washer, Connecting rod	79	610906	Magneto, Solid State (Incl. Nos. 158
17	28264	Nut, Connecting rod	, ,		thru 161)
18	34752	Camshaft (Mechanical Compression Release)	80	650661	Screw, Fil. hd. w/conical spring lockwasher, 1/4-20 x 3/4
19	33472		81	33479	Extension, Blower housing
20	33471	Lifter, Valve	82	30688	Screw, Hex hd. Sems, 1/4-20 x 1/2
21		Rod, Push	83	650751	Screw, Hex hd. w/conical spring
	34643	Valve, Intake (Std.)	8	00/31	washer, 1/4-20 x 7/16
21	34644	Valve, Intake (1/32" oversize)	0.4	22775 4	
22	33506	Valve, Exhaust (Std.)	84	33775A	Housing, Blower
22	33646	Valve, Exhaust (1/32" oversize)	85	8274	Lockwasher, Split, 5/16
23	33507	Spring, Valve	86	650595	Screw, Hex hd., 5/16-24 x 3/8
24	33508	Retainer & Cap Set, Keeper valve	87	650752	Screw, Hex hd. Sems, 1/4-20 x 7/16
25	† * 33509	"O" Ring (Intake)	88	33480	Tube, Push rod
25A		"O" Ring (Exhaust)	89	† * 33481	"O" Ring
26	33510	Cap, Valve	90	34754	Housing Assy., Rocker arm
27	34751	Gear & Shaft Assy., Governor	91	28545	Grommet, Plastic
28	650745	Washer, Flat	92	650643	Screw, Pan hd. self-tapping, 8-18
29	30590A	Washer, Flat		1	3/8
30	31948	Spool, Governor	93	33356	Terminal, Ground
31	*31956A	1 Gasket, Cylinder cover	94	† *33484	"O" Ring
32	34649	Cover Assy., Cylinder (Incl. Nos. 33, 134 & 141)	95 96	650168 32610A	Washer, Flat, 1/4" Screw, Flanged hex hd., 1/4-20
33	31950	Seal, Oil	ĺ	1	29/32
34	30564	Screw, Hex hd. Sems, 1/4-20 x 1	97	33485	Arm, Rocker
35	650492	Screw, Hex hd. Sems, 1/4-20 x 2-1/4	98	33486	Ring, Retaining
36	32425	Rod Assy., Governor	99	650755	Screw, Adjusting
37	32426	Spacer, Governor rod	100	650864	Nut. Hex. 1/4-20
38	29193	Ring, Retaining	101	650756	Stud, Rocker arm housing cover
39	33984A		102	†*33487	"O" Ring
40	33590	"O" Ring	103	33488	Cover, Rocker arm housing
41	*34841	Gasket, Cylinder head	104	t*31958	Gasket, Breather
42	34771		107	1 31330	Gaskar, Dioduloi
43		Head, Cylinder	1		
	730195	Valve Guide Kit (Incl. No. 44)			1
44 45	34315 34645	Ring, Retaining Resistor Spark Plug (Champion RN-4		,	*Indicates Parts Included in Gasket Set, Ref. No. 173.
		or equivalent)			Guardi Gar, Horritan
46	650690	Washer, Belleville		1	findicates Parts Included in
47	650691	Washer, Flat			"O" Ring Kit, Ref. No. 174.

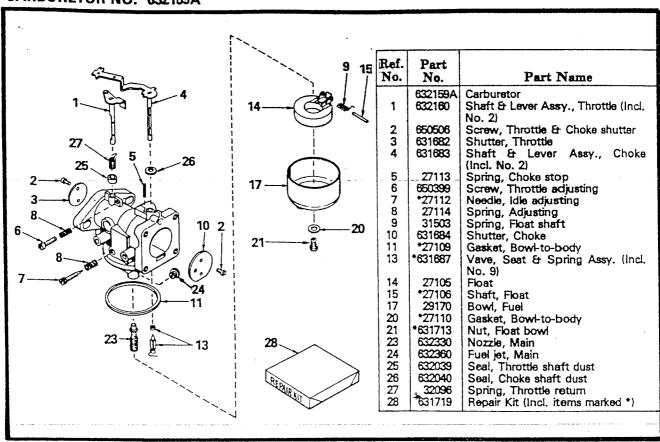
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TECUMSEH 4-CYCLE ENGINE MODEL NUMBER: 0H180-180017C

_			4 O LOFF FIRGURE	1410		NAIDEU OU 190-1900 IVC
	Ref.	Part		Ref.	Part	
	No.	No.	Part Name	No.	No.	Part Name
Γ	105	33489	Body Assy., Breather	148	650399	Screw, Fil. hd. Sems, 10-32 x 5/8
	106	33490	Tube, Breather	149	610965	Stator Plate Assy.
	107	t*30102	Screw, Hex washer hd. Sems,	150	29443	Clip
			w/Masticwasher, 10-32 x 5/8	151	27793	Clip, Conduit
	109	650737	Screw, Hex washer hd. taptite, 1/4-20	152	28942	Screw, Hex hd. Sems, 10-32 x 3/8
			x 1/2	153	32039	Switch Stop
	111	*33492	Gasket, Air cleaner bracket	154	16645	Washer, Lock, 5/16"
	112	33493	Bracket, Air cleaner	155	26073	Washer, Flat
-	113	33494	Bracket, Air cleaner	156	650624	Screw, Hex hd. 5/16-24 x 9/16
	114	650399	Screw, Fil. hd. Sems, 10-32 x 5/8	158	610118	Cover, Spark plug
- 1	115	32008	Element, Air cleaner	159	610750	Grommet, Lead wire
- 1	116	32810	Cover, Air cleaner	160	610408	Nut, Hex, 8-32
	117	650513	Nut, Wing, 1/4-20	161	610908	Terminal, Female
- 1	118	33495	Cover, Cylinder head	163	*31971	Gasket, Shim (.004/.005 thick) (See
- 1	119	31992	Spacer, Screen			Note 1)
- 1	120	33776	Screen, Starter	164	*31972	Gasket, Shim (.005/.007 thick) (See
	121	27070	Washer, Lock, 1/4"			Note 1)
	122	650680	Screw, Truss hd., 1/4-20 x 1-1/2	165	*32031	Spacer, Steel (.010 thick) (See Note 1)
	123	31980	Pulley, Starter	167	29774	Line, Fuel
-	124	32046	Rope Assy., Starter	171	632159A	Carburetor (Incl. No. 54)
-	128	34346	Decal, Instruction	172	33835	Starter Motor Kit (12 Volt) (Incl. No.
	129	34768	Decal, Name			139)
	132	34651	Weight Assy., Counterbalance (Incl. 2	173	33516D	Gasket Set (Incl. items marked *)
- 1	400	22504	of No. 133)	174	35075	"O",Ring Kit (Incl. items marked 1) 🔽
	133	33501	Bearing, Needle roller		ĺ	
	134	33502	Shaft, Counterbalance			*Indicates Parts Included in
İ	135 136	33503	Washer, Thrust			Gasket Set, Ref. No. 173.
ļ	137	792017 34650	Ring, Retaining	1]	Aladrana Bankalan India
	138	650744	Tube Extension, Oil fill	ľ	1	Indicates Parts Included in
1	139	650781	Screw, Fil. hd. Sems, 10-24 x 7/8 Screw, Hex hd. Sems, 5/16-18 x 11/16			"O" Ring Kit, Ref. No. 174.
V	140	33893A	Tube, Oil fill	j		Note 1. Determine the gen between
	141	28534	Plug, Pipe (Hex countersunk headless,		1	Note 1: Determine the gap between
	1771	20004	1/8-27)		}	the cover and the machined surface on
	142	28566	176-27 Fitting, Fuel line			the cylinder, which can be from .001"
- 1	144	35018	Pump, Fuel		1	up to .007", in which case <u>no shim</u> gaskets will be required. Use of
	144A	33010	Repair Kit, Fuel pump			gaskets must be limited to a combined
	145	26460	Clamp, Fuel line		1	total of .010" thick. Steel spacers must
1	146	32577	Cover, Cylinder (See Note 1)	1		be used as required to eliminate
	147	792028	Screw, Hex hd. Sems, 5/16-18 x 7/8			crankshaft end play.
	147A	650736	Screw, Pan hd., 10-16 x 3/8		ĺ	

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CARBURETOR NO. 632159A



STARTER MOTOR NO. 33835

