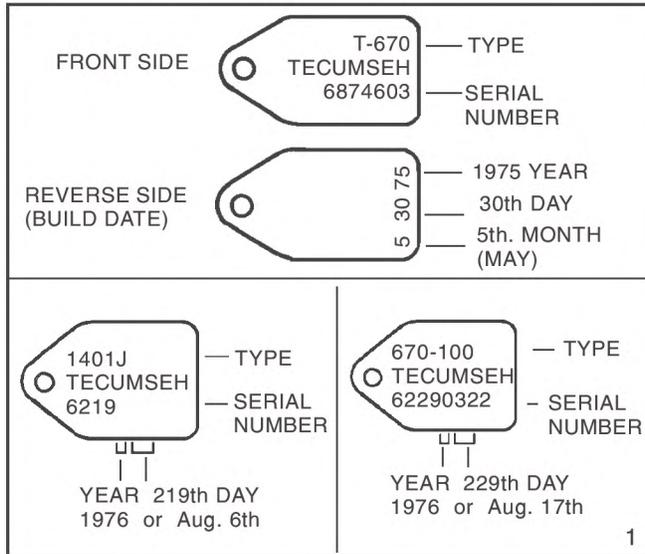


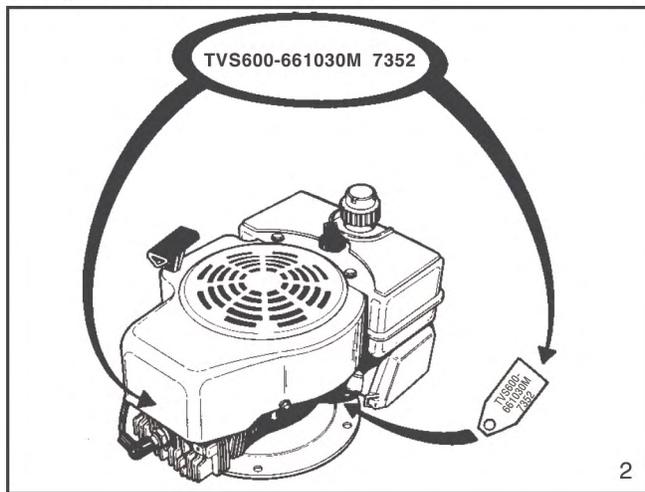
GENERAL INFORMATION

ENGINE IDENTIFICATION

Tecumseh has used two different methods of identifying 2 cycle engines. The first method was used until the mid 1980's using the base model number with a type number. The type number was used to identify variations for the OEM's specific needs (Fig. 1)



The second method was put in place to standardize 2 cycle and 4 cycle engine identification. The type number has now become the specification number, which is preceded by the engine model as illustrated in Figure 2 and 3.



INTERPRETATION OF MODEL NUMBER

The letter designations in a model number indicates the basic type of engine.

- AH - Aluminum Horizontal
- AV - Aluminum Vertical
- BV - Outboard Vertical
- HSK - Horizontal Snow King
- TVS - Tecumseh Vertical Styling

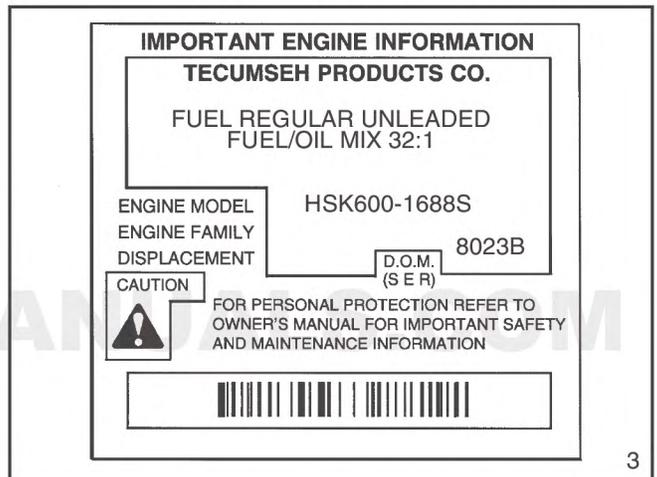
The numbers that follow the letter designations indicate the horsepower or cubic inch displacement.

Following the engine size are the engine specification numbers which are used for identification when ordering parts.

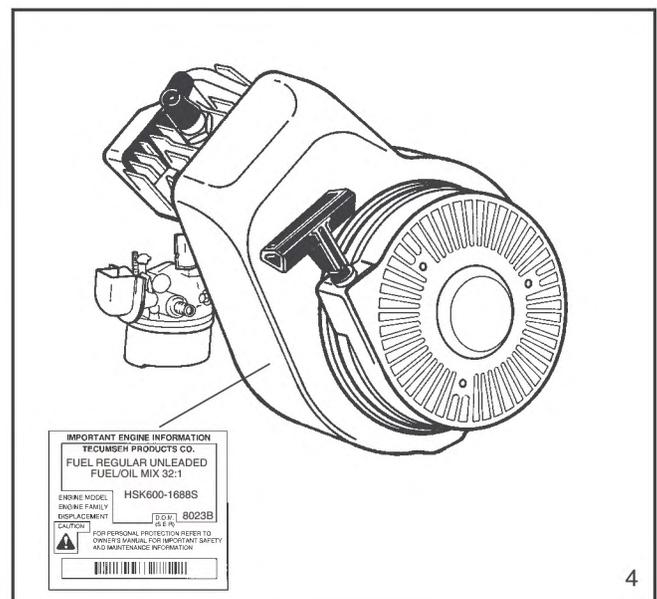
The final set of numbers are the date of manufacture (D.O.M.).

Example: HSK600 1688S

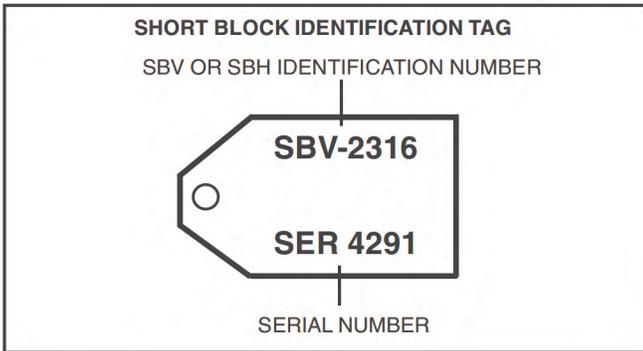
- HSK - Horizontal Snow King
- 600 - 6 Cubic Inch displacement
- 1688S - Specification number
- 8023B - Serial number D.O.M. (date of manufacturing previously serial number)
- 8 - First digit is the year of manufacturing (1998)
- 023 - Indicates the calendar day of the year (23th day or Jan. 23, 1998)
- B - Represents the line and shift on which the engine was built at the factory



Tecumseh engine model, specification, and D.O.M. number are now located on a decal adhered to the blower housing.



ENGINE CARE



SHORT BLOCKS

New short blocks are identified by a tag marked S.B.H. (Short Block Horizontal) or S.B.V. (Short Block Vertical). Original model identification numbers of an engine should always be transferred to a new short block for correct parts identification.

 **THIS SYMBOL POINTS OUT IMPORTANT SAFETY INSTRUCTIONS WHICH IF NOT FOLLOWED COULD ENDANGER THE PERSONAL SAFETY OF YOURSELF AND OTHERS. FOLLOW ALL INSTRUCTIONS.**

ENGINE FUEL MIX				
	U.S.	U.S.	METRIC	METRIC
	Gasoline	Amount of Oil To Be Added	Petrol	Amount of Oil To Be Added
24:1	1 Gallon	5.3 oz.	4 Liters	167 ml
	2 Gallons	10.7 oz.	8 Liters	333 ml
32:1	1 Gallon	4 oz.	4 Liters	125 ml
	2 Gallons	8 oz.	8 Liters	250 ml
50:1	1 Gallon	2.5 oz.	4 Liters	80 ml
	2 Gallons	5.0 oz.	8 Liters	160 ml

FUELS. Tecumseh Products Company strongly recommends the use of fresh, clean, UNLEADED regular gasoline in all Tecumseh Engines. Unleaded gasoline burns cleaner, extends engine life and promotes good starting by reducing the build up of carbon deposits. Premium gas or gasohol containing no more than 10% ethanol can be used if unleaded fuel is not available.

NOTE: NEVER USE GASOLINE CONTAINING METHANOL, GASOHOL CONTAINING MORE THAN 10% ETHANOL, UNLEADED REGULAR GASOLINE CONTAINING MORE THAN 15% M.T.B.E. OR ETBE, GASOLINE ADDITIVES, OR WHITE GAS BECAUSE ENGINE/FUEL SYSTEM DAMAGE COULD RESULT.

NOTE: In countries where unleaded gasoline is not available, regular gas can be used.

Make sure that gasoline and oil are stored in clean, covered, rust free containers. Dirt in fuel can clog small ports and passages in the carburetor. Use fresh gasoline only. Gasoline standing for long periods of time develop a gum that will result in fouled spark plugs, clogged fuel lines, carburetors and fuel screens.

Using fuel that is not fresh will cause engines to be hard starting, especially in cold temperatures.

Clean gas cap, tank and fuel container spout when filling fuel tank, to assure that dirt will not get into fuel system.

If gasohol is used, special care is required when the engine is to be stored for extended periods.

ENGINE OIL. Use Clean, high quality 2 CYCLE OIL. NMMA TC-WII, or TC-W3.

FUEL/OIL MIX. Follow fuel and engine oil requirements listed in the Owner's Manual. Disregard conflicting instructions found on oil containers.

NOTE: Sears Craftsman models use a 40:1 mix which is acceptable.

NOTE: ALWAYS DOUBLE THE AMOUNT OF OIL FOR THE FIRST GALLON OF MIX FOR ENGINE BREAK IN.

To assure thorough mixing of oil and gasoline, fill container with gasoline to one quarter full, add oil as recommended, shake container vigorously and then add remainder of gasoline. **Do not mix directly in engine or equipment fuel tank.**

TWO-CYCLE FUEL/OIL MIX RATIOS
24:1 AV520 All Basic Specifications 670 & 653 AV600 All Basic Specifications 600-10 & Up
32:1 TVS600 All Specifications AH600
50:1 HSK600

STORAGE:

 **NEVER STORE ENGINE WITH FUEL IN TANK INDOORS 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 stored over 30 days, prepare for storage as follows:

1. Remove all gasoline from fuel tank to prevent gum deposits from forming in tank and other fuel system components, causing possible malfunction of the engine.

 **DRAIN FUEL INTO APPROVED CONTAINER OUTDOORS, AWAY FROM OPEN FLAMES.**

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

Fuel stabilizer (such as Tecumseh's Part No. 730245) is an acceptable alternative in minimizing the formation of fuel gum deposits during storage.

CHAPTER 1 GENERAL INFORMATION

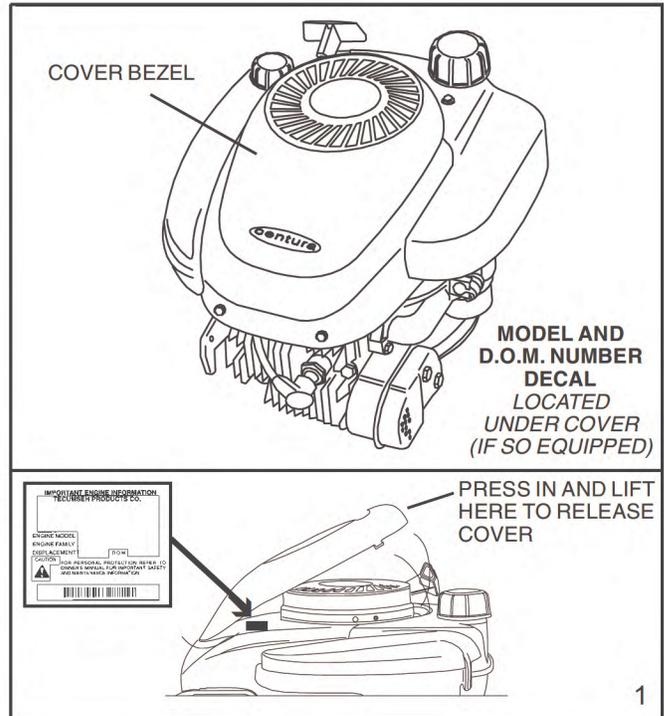
ENGINE IDENTIFICATION

Tecumseh engine model, specification, and serial numbers or (date of manufacture, DOM) are stamped into the blower housing or located on a decal on the engine in locations as illustrated (diag. 1 & 2).

NOTE: On some LEV engines, a cover bezel must be removed to provide access to the identification decal (diag. 1).

The engine identification decal also provides the applicable warranty code and oil recommendations (diag. 3).

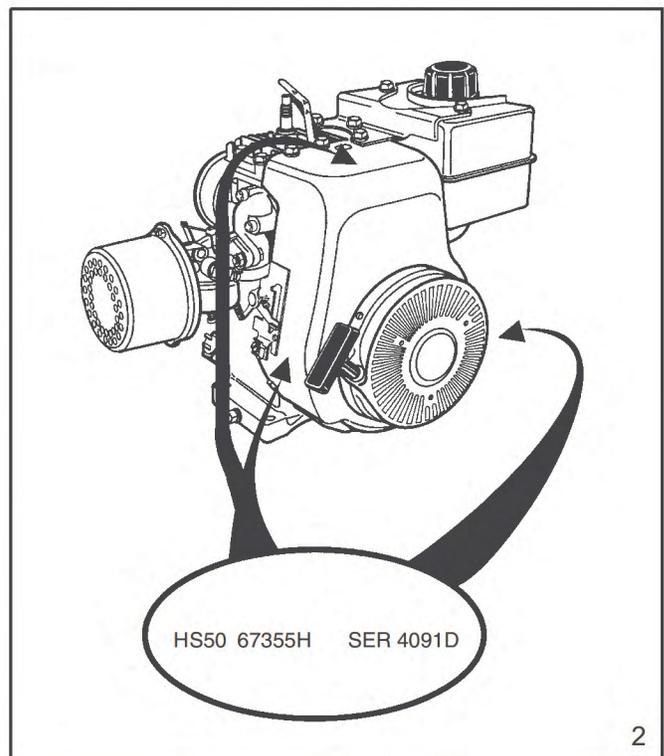
Emissionized engines that meet the California Air Resource Board (C.A.R.B.) or the Environmental Protection Agency (E.P.A.) standards will include additional required engine information on the engine decal (diag. 3).



INTERPRETATION OF MODEL NUMBER

The first letter designation in a model number indicates basic type of engine.

- V - Vertical Shaft
- LAV - Lightweight Aluminum Vertical
- VM - Vertical Medium Frame
- TVM - Tecumseh Vertical (Medium Frame)
- VH - Vertical Heavy Duty (Cast Iron)
- TVS - Tecumseh Vertical Styled
- TNT - Toro N' Tecumseh
- ECV - Exclusive Craftsman Vertical
- TVXL - Tecumseh Vertical Extra Life
- LEV - Low Emissions Vertical
- H - Horizontal Shaft
- HS - Horizontal Small Frame
- HM - Horizontal Medium Frame
- HHM - Horizontal Heavy Duty (Cast Iron) Medium Frame
- HH - Horizontal Heavy Duty (Cast Iron)
- ECH - Exclusive Craftsman Horizontal
- HSK - Horizontal Snow King



The number designations following the letter indicate the horsepower or cubic inch displacement.

The number following the model number is the specification number. The last three numbers of the specification number indicate a variation to the basic engine specification.

The serial number or D.O.M. indicates the production date.

Using model **LEV115-57010B**, serial **8105C** as an example, interpretation is as follows:

LEV115-57010B is the model and specification number

LEV Low Emissions Vertical

115 Indicates a 11.5 cubic inch displacement

57010B is the specification number used for properly identifying the parts of the engine

8105C is the serial number

8 first digit is the year of manufacture (1998)

105 indicates calendar day of that year (105th day or April 15, 1998)

C represents the line and shift on which the engine was built at the factory.

Engine Family: Engine Tracking Information

IMPORTANT ENGINE INFORMATION
TECUMSEH PRODUCTS CO.
FUEL REGULAR UNLEADED
OIL, SAE 30 (BELOW 32°F SAE 5W30)

ENGINE MODEL	LEV115 57010B (D)
ENGINE FAMILY	STP185U1G1RA
DISPLACEMENT	D.O.M. (S E R) 8105C

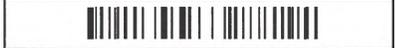
CAUTION FOR PERSONAL PROTECTION REFER TO OWNER'S MANUAL FOR IMPORTANT SAFETY AND MAINTENANCE INFORMATION



IMPORTANT ENGINE INFORMATION
TECUMSEH PRODUCTS CO.
THIS ENGINE MEETS 1995-1998
CALIF. EMISSION REGULATOR FOR
ULGE ENGINES AS APPLICABLE
FUEL: REGULAR UNLEADED OIL: USE SEA30

ENGINE MODEL	LEV115 57010B (D)
ENGINE FAMILY	STP185U1G1RA
DISPLACEMENT	D.O.M. (S E R) 8105C

CAUTION FOR PERSONAL PROTECTION REFER TO OWNER'S MANUAL FOR IMPORTANT SAFETY AND MAINTENANCE INFORMATION



3

WATERCRAFTMANUALS.COM

SHORT BLOCKS

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SHORT BLOCK IDENTIFICATION TAG

SBV OR SBH IDENTIFICATION NUMBER



SERIAL NUMBER

4

FUEL

Tecumseh strongly recommends the use of fresh clean unleaded regular gasoline in all engines. Unleaded gasoline burns cleaner, extends engine life and promotes better starting by reducing build-up of combustion chamber deposits.

REFORMULATED AND OXYGENATED FUELS

Reformulated fuels containing no more than 10% Ethanol, 15% MTBE, 15% ETBE or premium gasoline can be used if unleaded regular gasoline is not available. Leaded fuel may be used in countries where unleaded fuel is not available. **NEVER USE FUEL CONTAINING METHANOL.**