



SERVICE BULLETIN 503

**EMISSION
INFORMATION
UNITED STATES ONLY**

ISSUED: January, 1999

SUBJECT: Rich Running Engines Above 7,000 Feet

MODELS OR TYPES AFFECTED: HM, HMSK, OHSK

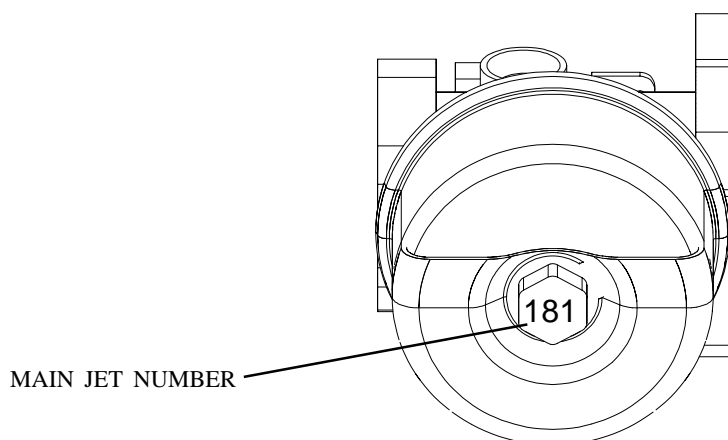
Tecumseh Products Company has been working with the California Air Resource Board (CARB) and the Environmental Protection Agency (EPA) to improve engine performance at elevations above 7,000 feet.

The result of these cooperative efforts is the availability of leaner service jets for the specific models listed on the attached page. These changes to the engines carburetor jetting will require some questioning and education of the customer by the sales person prior to the sale or the technician if the sale was already made. Part of the sale of new emissionized product must be questioning the customer regarding the elevation at which the equipment will be used.

If the unit was already sold and the customer is commenting about a rich running condition, poor run quality or excessive smoke, check the main jet number compared to the chart. By following this chart you can install the correct jet for the customers operational elevation while maintaining the engines emissions compliance and performance.

Please note under the regulation guidelines there are specific altitudes at which these changes can be made. The first range is 6,000-11,000 feet above sea level, the second is over the 10,000 feet. The change to carburetor calibration for these conditions requires changing the main metering jet which is part of the bowl nut.

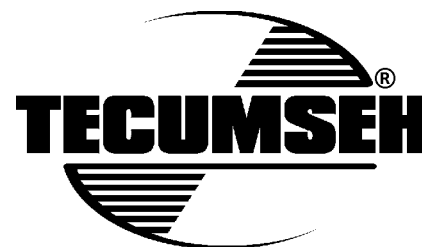
The main jets are identified with a stamped in number on the bottom (see illustration). Using the chart below select the correct service jet kit. The kit will include instructions, jet(s) and a bright colored decal advising the customer that the unit has been re-jetted to compensate for high altitude. The decal will further advise the operator to have the unit re-jetted if taken out of that range.



(continued on back)

SERVICE BULLETIN 503 (Cont.)

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Decal 1 Text The carburetor on this engine has been re-jetted to improve performance between elevations of 6,000-11,000 feet. Operation above or below this range requires re-jetting by a Technician / Dealer to maintain the engines emission certification and prevent damage to the engine.

Decal 2 Text The carburetor on this engine has been re-jetted to improve performance at elevations above 10,000 feet. Operation below this range requires re-jetting by a Technician / Dealer to maintain the engines emission certification and prevent damage to engine.

Engine Model / Description	Original Bowl Nut Number	Service Kit Part Number for use at elevation's of 6,000-11,000 Ft.	Service Kit Part Number for use above 10,000 Ft.
HM80/HM90 After DOM 7245	183	640189(207)	640194(206)
HM100 After DOM 7199	183	640189(207)	640194(206)
OHM120	183	640189(207)	640194(206)
HMSK80/85/90	167	640186(205)	640202(203)
HM80/90/100 (RV Package)	163	640185(149)	640193(204)
HMSK100/105/110	163	640185(149)	640193(204)
OHSK 80/90/100/110	188	640187(163)	640192(167)
OHSK120/130	181	640188(167)	640191(148)
HM80/90 Prior to DOM 7245	162	640190(148)	640203(149)
HM100 Prior to DOM 7199	162	640190(148)	640203(149)