NEW HOLLAND

Kawasaki

Engine

Model FH580V

Used on Model MZ19H Mower

REPAIR MANUAL

NEW HOLLAND

SERVICE

87372878 10/05

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Cooling System

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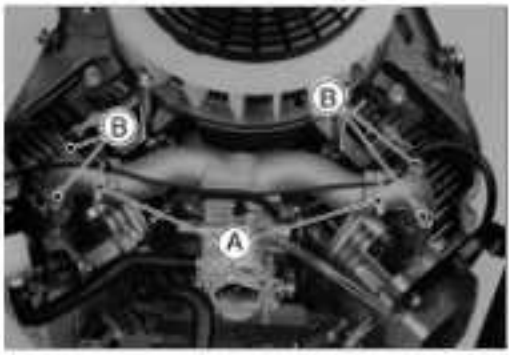
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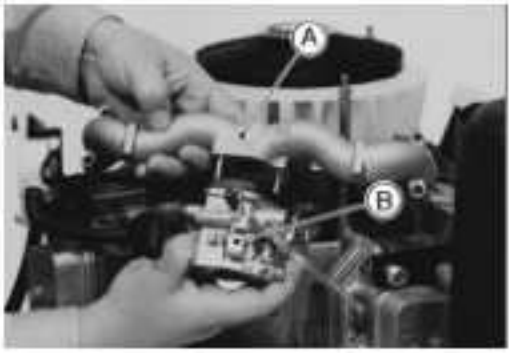
Intake Manifold

Intake Manifold Removal

- Remove:
  Air Cleaner (see Cleaner Body Removal)
  Engine Upper Cover
- Cut off the band [A] and harness and/or wire lead are released from intake manifold.
- Unscrew the manifold mounting bolts [B].

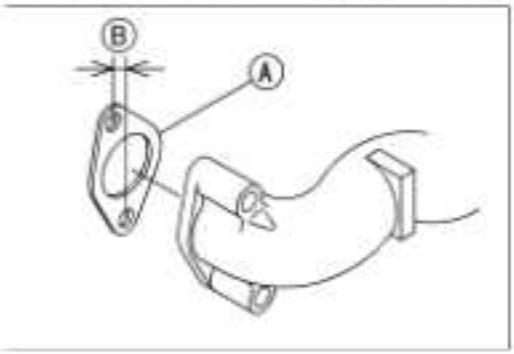


- Then lifting up the intake manifold middle [A] pull out the intake manifold from the carburetor [B] as shown.



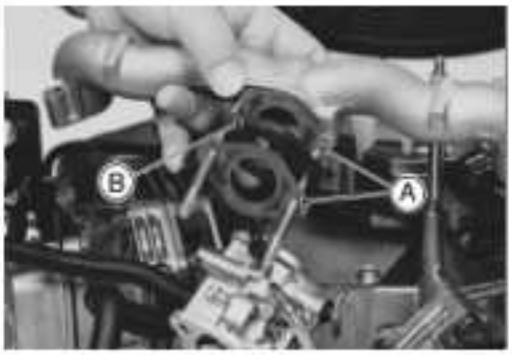
Intake Manifold Installation

- Replace the intake manifold gasket with new ones.
- Clean the mating surfaces of the cylinders and intake manifolds and fit a new gaskets [A] direction as shown.
  [B] Distance (FH451V, 500V, 531V): 6 mm
  [B] Distance (FH580V): 0 mm
  [B] Distance (FH601V, 641V, 680V, 721V): 12 mm

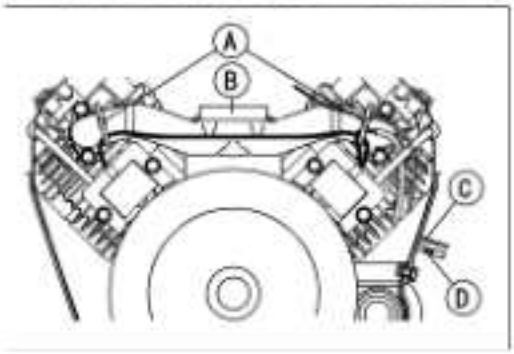


- Clean the mating surfaces of the carburetor and intake manifold and install the new gaskets [A] and insulator [B] sequence as shown.
- Install the intake manifold.
- Tighten the mounting bolts.

Torque - Intake Manifold Mounting Bolts: 5.9 N·m (0.6 kgf·m, 52 in·lb)



- Install and tighten the band [A] around the manifold [B] and wirelead [C] and/or harness [D].
- Position the wire and/or harness on top of the manifold as shown.
- Cut excess the band off.
- Install the other removed parts.



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Crankshaft, Connecting Rod

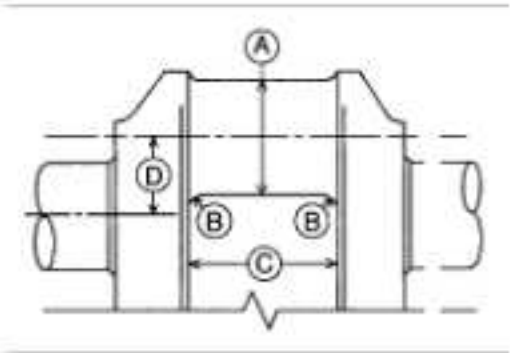
Crankpin Resizing

Crankpin can be resized to accept 34.5 mm (1.3583 in.) dia under size connecting rod. The crankpin should be reground if the crankpin is so much undersize and so much scored that a lapping operation will prove unsatisfactory. Reground can be done by a reliable repair shop.

- Before sending the crankshaft, inspect the crankpin for cracks.

★If any cracks, no matter how small, are found, the crankshaft must be rejected.

- The final finishing dimensions should be shown in the table.



Finishing Dimensional Specifications
[FH451V, FH500V, FH531V]

[A]	34.457 ~ 34.470 mm (1.356 ~ 1.357 in.)
[B]	R 2.0 ~ 2.4 mm (R 0.0787 ~ 0.0945 in.)
[C]	39.50 mm MAX (1.555 in. MAX)
[D]	33.950 ~ 34.050 mm (1.337 ~ 1.340 in.)

Finishing Dimensional Specifications
[FH580V]

[A]	37.457 ~ 37.470 mm (1.4747 ~ 1.4752 in.)
[B]	R 2.0 ~ 2.4 mm (R 0.0787 ~ 0.0945 in.)
[C]	39.50 mm MAX (1.555 in. MAX)
[D]	33.950 ~ 34.050 mm (1.337 ~ 1.340 in.)

Finishing Dimensional Specifications
[FH601V, FH641V, FH680V, FH721V]

[A]	37.457 ~ 37.470 mm (1.4747 ~ 1.4752 in.)
[B]	R 2.0 ~ 2.4 mm (R 0.0787 ~ 0.0945 in.)
[C]	43.0 mm MAX (1.693 in. MAX)
[D]	37.95 ~ 38.05 mm (1.4941 ~ 1.4980 in.)

- The crankpin surface should be concentric and parallel to each other within 0.006 mm (0.0002 in.) full indicator reading.
- Finish the crankpin surface with a super finishing stone.

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8-2 TROUBLESHOOTING

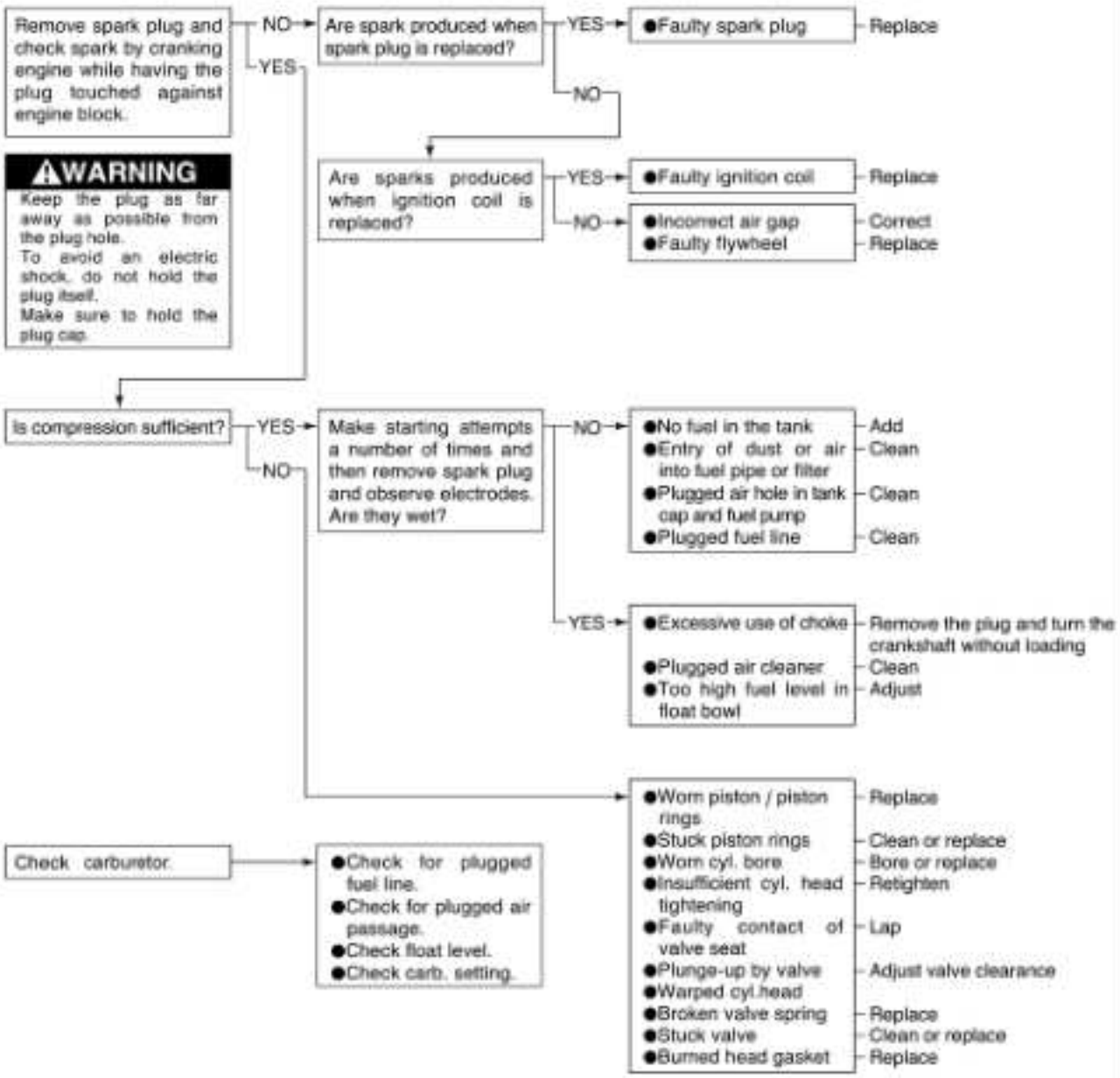
Engine Troubleshooting Guide

If the engine malfunctions, check if the way the engine is used is correct. If engine malfunctions even if engine is used correctly, systematically carry out troubleshooting starting with simple points.

This chart describes typical troubleshooting procedures.

Do not unnecessarily disassemble carburetor, magneto or engine unless it has been found to be the cause of malfunctioning.

[Engine hard to start]



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