

	JH900-A1: 900 ZXI OIL PUMP BLEEDING, ENGINE FASTENER TIGHTENING		JS 95-05 April 12, 1995
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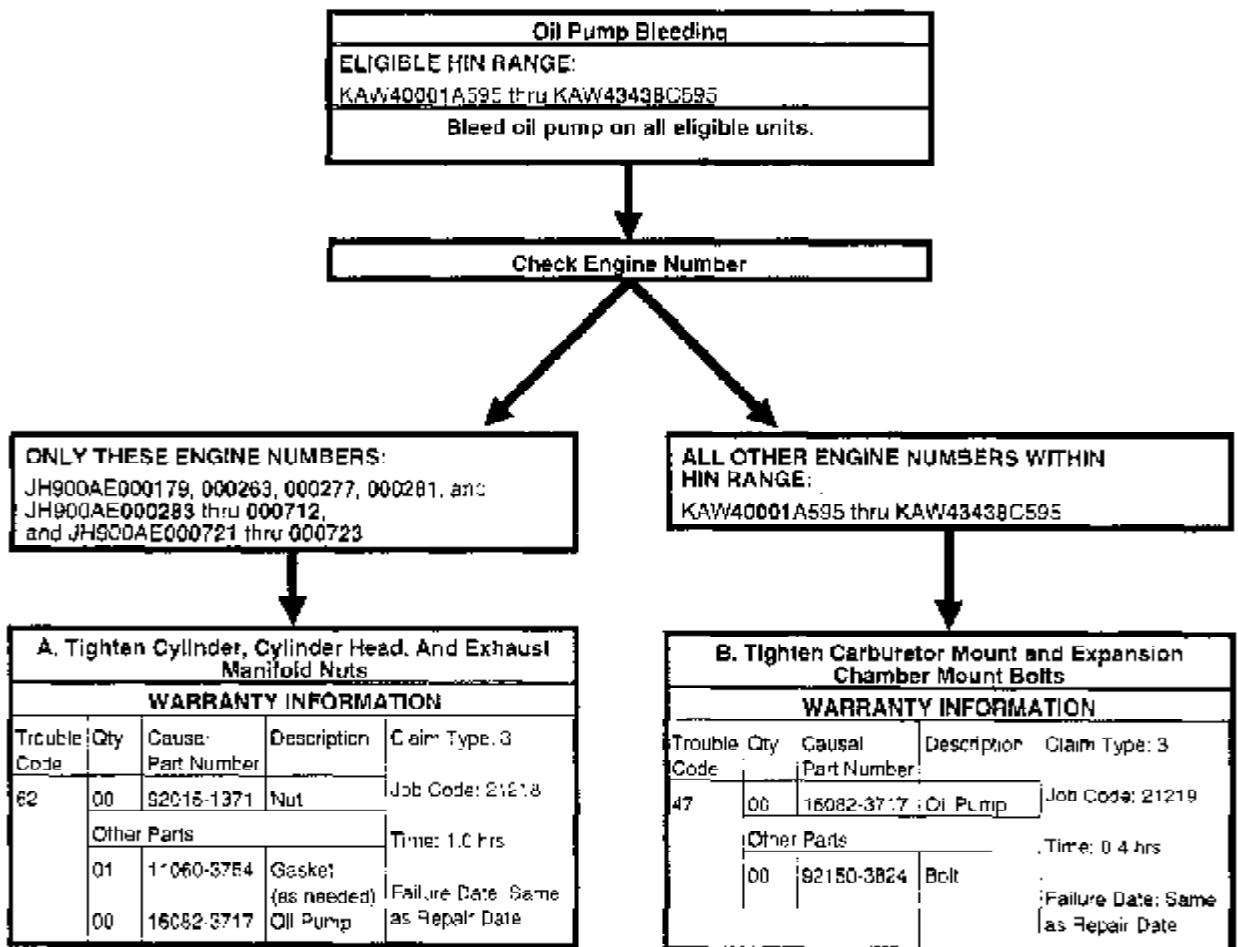
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FACTORY DIRECTED MODIFICATION

Subject

All 900 ZXI watercraft produced through H.N KAW43438C595 need oil pump bleeding and either Repair A or B shown below, depending on eligible Hull Identification and Engine Number ranges. Follow this flow chart to be sure that each unit gets the appropriate repairs. Failure to repair can result in engine seizure.



Warranty Information

This is a Factory Directed Modification. Repair is authorized regardless of ownership or warranty status. Repairs **MUST BE PERFORMED IMMEDIATELY ON ALL ELIGIBLE UNITS** in the

field and during initial preparation. See the *Warranty Policies and Procedures Manual* (claim type 3 information) for detailed instructions when submitting the Warranty Claim.

S E R V I C E

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Kawasaki Action

Initiate FDM Campaign:

Kawasaki has initiated a Factory Directed Modification campaign to repair all eligible units. The repair will consist of performing a special oil pump bleeding procedure and properly tightening the loose bolts and nuts as needed.

Notify Registered Owners:

Kawasaki is sending a letter to all registered owners of eligible units. A copy of the letter is printed on the last page of this bulletin.

Dealer Action

Repair Eligible Units:

Repair all eligible units, including sold units in the field and unsold units in your inventory. Refer to the Repair Procedures section of this bulletin for details.

Document Completed Repairs:

Dealers **MUST** submit a Warranty Claim for these repairs. Refer to the Warranty Information section of this bulletin for details.

NOTE:

- o *If you fail to submit a Warranty Claim for a new unit that is subsequently sold and registered, the new owner will receive the FDM letter requesting the return of the watercraft to you for repair.*

Submit Warranty Registration Cards:

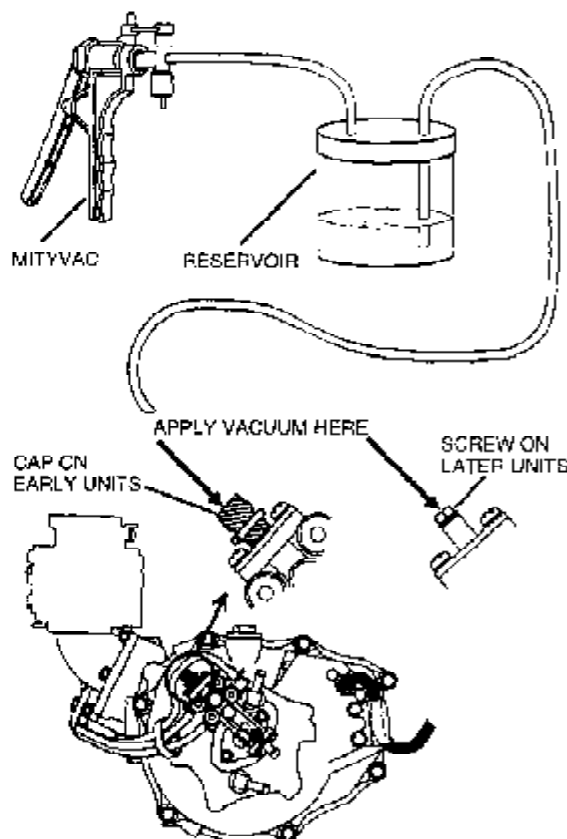
Be sure to supply the correct customer name and address on Warranty Registration Cards. Kawasaki uses this information to notify customers. **You are responsible for notifying customers whose eligible units have not been registered.**

Also, if you know that the customer has moved, please notify the Warranty Registration Department of the customer's new address.

Repair Procedures

Oil Pump Bleeding

- Fill the oil tank with the specified oil (see the JET SKI watercraft General A&P Manual, P/N 99931-1079-01, page 32).
- Remove the oil pump bleed fitting cap or screw.
- Attach a hand-operated vacuum pump (like a Mityvac, P/N T96000-001) to the oil pump bleed fitting and draw oil through the injection pump.
- Continue to draw oil through the injection system until no more air bubbles come through the suction line.
- Replace the bleed fitting cap or screw.

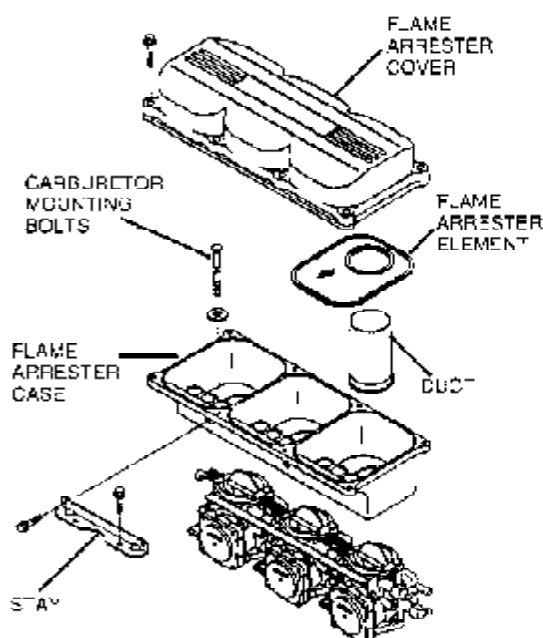


CAUTION

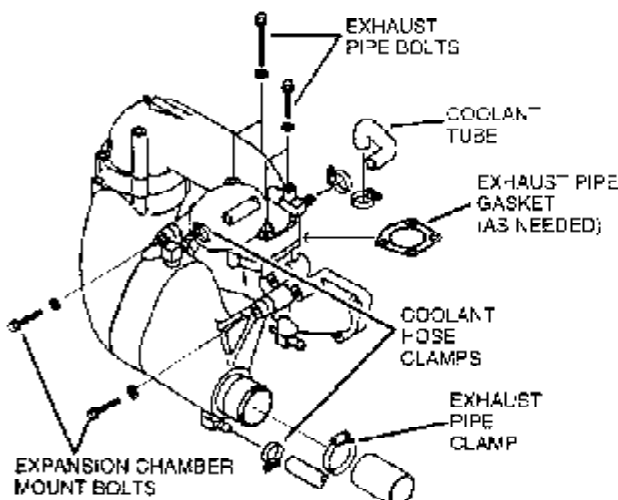
Even though the lubrication system has been thoroughly bled, the engine **MUST** be run on 50:1 premix fuel during the break-in period (the first five hours of operation).

A. Tightening Cylinder, Cylinder Head, and Exhaust Manifold Nuts

- Remove the flame arrester cover, the three elements and ducts, and the flame arrester case with its stay.
- Loosely reinstall the carburetor mounting bolts to keep the carburetors and the gasket in place until reassembly.



- Loosen the clamps for the two coolant hoses on the chamber, and pull the hoses loose.
- Loosen the clamp at the expansion chamber outlet for the exhaust pipe to the water muffler.
- Remove the coolant tube between the cylinder head and the exhaust pipe.
- Take out the four bolts holding the exhaust pipe to the exhaust manifold.



- Remove the two expansion chamber mounting bolts.
- Protect the front end of the engine with a soft cloth, and shift the exhaust pipe and expansion chamber toward the front of the craft, out of the way.
- One by one, loosen and then retighten each of the cylinder base nuts to the specified torque.

Cylinder Base Nut Torque

3.5 Kg-m (25 lb-ft)

- One by one, in the order printed on the cylinder head, loosen and then retighten the cylinder head nuts to the specified torque.

Cylinder Head Nut Torque

3.0 Kg-m (22 lb-ft)

- Now loosen and retighten the exhaust manifold nuts to the specified torque.

Exhaust Manifold Nut Torque

2.0 Kg-m (14 lb-ft)

- Replace the gasket between the exhaust pipe and the manifold with a new one (as needed), and then reinstall the exhaust pipe and expansion chamber assembly.

Exhaust Pipe and Expansion Chamber Mount Bolt Torque

5.0 kg-m (36 lb-ft) with locking agent*

*Use a non-permanent locking agent like Loctite Lock 'n Seal, P/N K61079-001.

- Reinstall the coolant hose and the exhaust pipe to the water muffler, and tighten the clamps securely.

- Install the flame arrester parts.

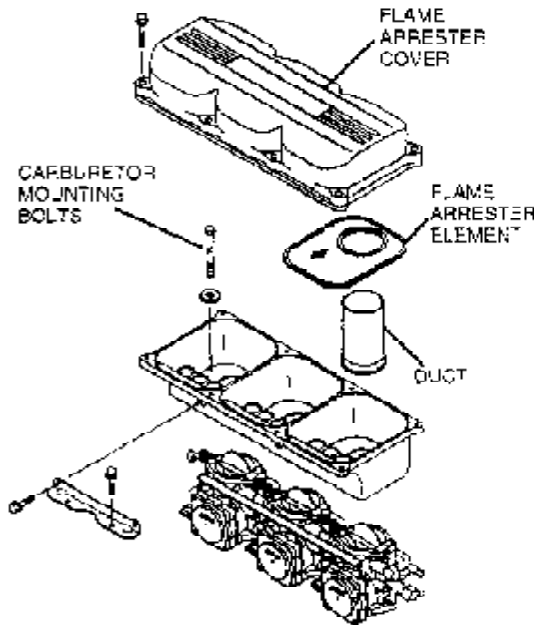
- o *Using a non-permanent locking agent as above, tighten the carburetor mount bolts to the specified torque.*

Carburetor Mount Bolt Torque

0.9 kg-m (78 lb-in)

B. Carburetor Mount and Expansion Chamber Mount Bolt Tightening

- Remove the carburetor flame arrester cover and flame arrester elements.



- Remove **one** of the six carburetor mounting bolts, apply a non-permanent locking agent (like Loctite Lock 'n Seal, P/N K61079-001, or equivalent), and reinstall it

NOTE:

- o *If more than one carburetor mounting bolt is removed at a time, the carburetor gasket or one of the carburetors may move out of place. Realigning the gasket or the carburetors is a difficult job.*

- Tighten the mounting bolt to the specified torque.

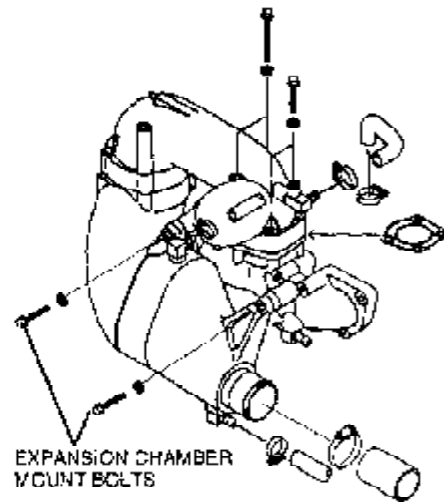
Carburetor Mounting Bolt Torque

0.9 kg-m (78 lb-in)

- Remove the rest of the mounting bolts, **one by one**, and repeat the tightening procedure described.
- Check to see if the expansion chamber mount bolts are loose, by tightening them to the specified torque.

Expansion Chamber Mount Bolt Torque

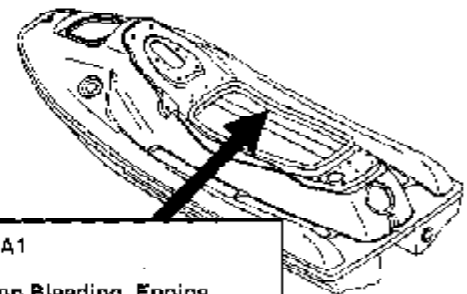
5.0 kg-m (36 lb-ft)



- If they can be tightened, remove them, apply a non-permanent locking agent (like Loctite Lock 'n Seal, P/N K61079-001) and tighten them to the specified torque.

Repair Verification

- Place the repair verification label on the right hand inner edge of the engine compartment under the seat.



JM900-A1
Oil Pump Bleeding, Engine Fastener Tightening
Refer to: JS 95-05

- To get more labels, call the Technical Support Hot Line.

NOTE:

- o *Repair verification is an essential part of the repair procedure.*
- o *One purpose for the repair verification label is to ensure that those products not yet repaired can be identified and repaired. Not only does this increase customer satisfaction, but it also maximizes the success of this FDM. Another purpose for the repair verification label is to prevent the wasted time and effort of duplicate repairs.*

**JET SKI 900 ZXi
FACTORY DIRECTED MODIFICATION NOTICE**

Dear Kawasaki JET SKI® Watercraft Owner:

This letter is sent to notify you that some 900 ZXi watercraft need special oil pump bleeding because air may have been trapped inside the pump initially and it is difficult to remove all the air from the lubrication system. Serious engine damage can occur if air bubbles remain in the lubrication system. Some units may also have improperly tightened engine and exhaust system fasteners. Our records indicate that you have bought one of these units.

Kawasaki has initiated a Factory Directed Modification campaign to repair all affected units. The repair will consist of performing a special oil pump bleeding procedure, and properly tightening engine and exhaust system fasteners as needed.

This repair will be made by an authorized Kawasaki JET SKI watercraft dealer at no charge. Please call your Kawasaki JET SKI dealer to schedule an appointment and take this letter with you at that time. The repair will take about one hour.

Please note that even with this special oil pump bleeding procedure, your watercraft must be run on 50:1 gas/oil premix fuel during the break-in period (at least the first five hours of operation). Please refer to your owner's manual, page 25, for more details.

We are sorry for any inconvenience, but we have taken this action in your best interest and continued satisfaction with your Kawasaki JET SKI watercraft. Please contact your dealer if you have any questions.

Sincerely,

KAWASAKI MOTORS CORP., J.S.A.