

May 1999

**Kawasaki FC420V  
Valve Springs**

**Midsize Models Affected:  
630001 and 630301**

**Issue**

Kawasaki Motors Corp. has informed us that there FC420V engines in the field that have valve springs without shot peening applied. This may cause premature failure of valve springs.

**Correction**

Replace existing valve springs with new valve springs (Kawasaki #49078-2067) as per installation instructions.

**Effective Serial Number**

Kawasaki Engine Models:

<u>MODEL</u>	<u>SPECIFICATION</u>	<u>ELIGIBLE ENGINE NO. RANGES</u>
FH420V	HS06	D37821 through D44323

**Warranty**

Warranty claims for parts and up to 0.5 hrs of labor may be submitted through your local Kawasaki Dealer. See attachments for further instructions.

**Attachments**

Check and Replacement Instructions.  
Warranty Instructions.

If you have any questions about this bulletin, please contact the Textron Turf Care and Specialty Products Service Department at 920-699-2000.

## **Check and Replacement Instructions**

1. Remove the spark plug.
2. Remove the engine shroud mounting bolts around the rocker cover.
3. Remove the rocker cover bolts
4. Remove the rocker cover case.
5. Distinguish the proper valve springs from the nonconforming ones by color.  
The method to distinguish by color is as follows:
  - 5a. Springs installed on the engine.  
Proper ones, the coils will appear dull and brown and nonconforming ones will be black and shiny.

**NOTE:** In case that the proper valve springs are installed, reassemble the removed parts as they were and complete the reworking.

## **Repair Procedure**

1. Turn the crankshaft so that the piston comes to the compression TDC position.
2. Remove the rocker shaft.
  - 2a. Push the rocker shaft from the bottom up. Light force may be required.
3. Remove the rocker arms.
4. Remove the exhaust valve spring (lower spring).
  - 4a. Remove the valve cap, valve spring retainer and the valve spring in that order.  
Note: Compress the valve spring with fingers and slide the retainer toward the bigger hole so that it disengages from the valve stem.
5. Install the new valve spring in the opposite order.
6. Remove the intake valve spring (upper spring).
  - 6a. Compress the valve spring using a hand held automotive style spring compressor.
  - 6b. Remove the collet, valve spring retainer and the valve spring in that order.
7. Install the new valve spring in the opposite order.
8. Carefully reinstall the rocker arms, rocker shaft and rocker cover case.

### **Warranty Information**

When submitting the warranty claim form (P/N 99969-04958 Rev 1-98) for this service bulletin, please include the following information.

1. Under - Authorization for no charge transaction, Special letter, enter DD2470L.
2. Under - Parts replaced.  
Part number, enter 49078-2067. Part name, enter Spring Eng-Valve.  
Qty., enter 0.
3. Under - Labor, Time in tenth of hours, enter 0.5 hrs.
4. Under - Use this space for remarks or special data required by the factory, enter Trouble code 32 and Claim type 3.