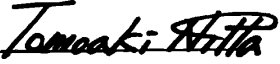




# SERVICE BULLETIN

QUALITY INFORMATION ANALYSIS  
OVERSEAS SERVICE DEPT. MITSUBISHI MOTORS CORPORATION

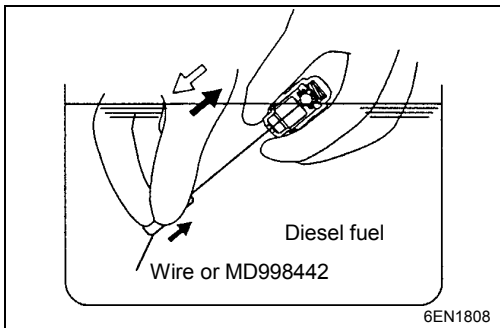
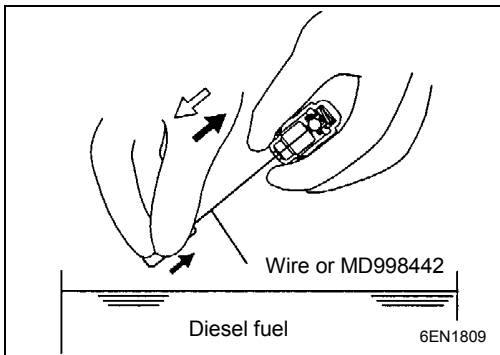
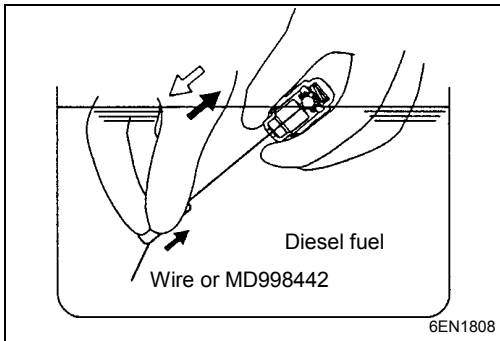
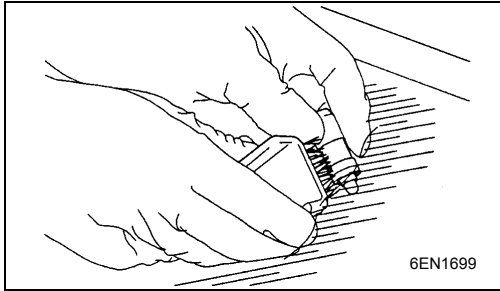
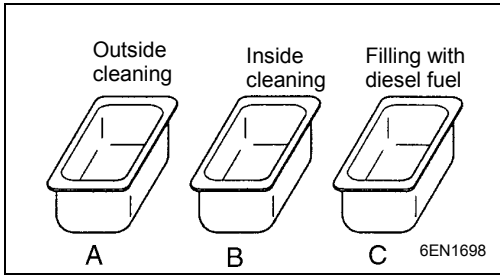
<b>SERVICE BULLETIN</b>		No.: MSB-99E11-002	
		Date: 1999-12-15	<b>&lt;Model&gt;</b> ALL MODELS <b>&lt;M/Y&gt;</b> 99-10
<b>Subject:</b> REVISION OF LASH ADJUSTER CLEANING PROCEDURE			
<b>Group:</b> ENGINE	<b>Draft No.:</b> 99EN560116		
<b>INFORMATION</b>	INTERNATIONAL CAR ADMINISTRATION OFFICE	 T. NITTA - PROJECT LEADER AFTER SALES SERVICE & CS PROMOTION	

**1. Description:**  
This Service Bulletin informs you that the lash adjuster cleaning procedure has generally been revised.

**2. Applicable Manuals:**

Engine	Revision details
SOHC	Pages 2 and 3 of this S/B
DOHC	Pages 4 and 5 of this S/B

**3. Details:**



## LASH ADJUSTERS

### Caution

- The lash adjuster adjusters are precision-engineered mechanisms. Do not allow them to become contaminated by dirt or other foreign substances.
  - Do not attempt to disassemble the lash adjusters.
  - Use only fresh diesel fuel to clean the lash adjusters.
- (1) Prepare three containers and approximately five liters of diesel fuel. Into each container, pour enough diesel fuel to completely cover a lash adjuster when it is standing upright. Then, perform the following steps with each lash adjuster.
  - (2) Place the lash adjuster in container A and clean its outside surface.

### NOTE

Use a nylon brush if deposits are hard to remove.

### Caution

- The steel ball spring is extremely weak, so the lash adjuster's functionality may be lost if the air bleed wire is pushed in hard.
- While gently pushing down the internal steel ball using wire (0.5 mm in diameter) or special tool MD998442, move the plunger through five to ten strokes until it slides smoothly. In addition to eliminating stiffness in the plunger, this operation will remove dirty oil.

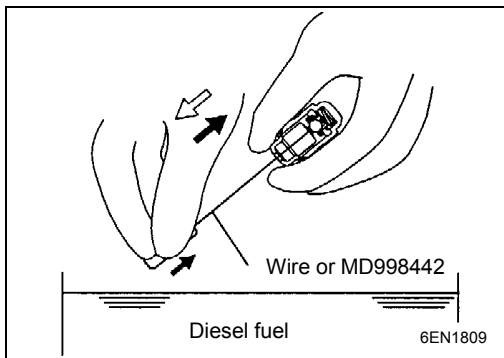
### NOTE

If the plunger remains stiff or the mechanism appears otherwise abnormal, replace the lash adjuster.

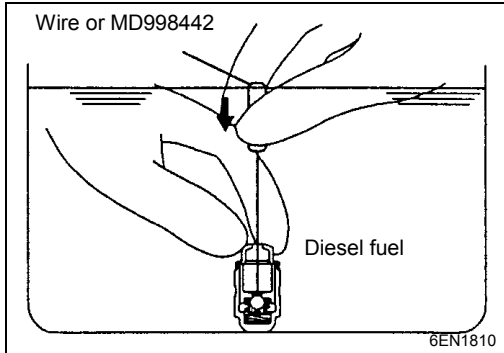
- (3) Remove the lash adjuster from the container. Then, push down the steel ball gently and push the plunger to eliminate diesel fuel from the pressure chamber.

### Caution

- The steel ball spring is extremely weak, so the lash adjuster's functionality may be lost if the air bleed wire is pushed in hard.
- (5) Place the lash adjuster in container B. Then, gently push down the internal steel ball using wire (0.5 mm in diameter) or special tool MD998442, and move the plunger through five to ten strokes until it slides smoothly. This operation will clean the lash adjuster's pressure chamber.



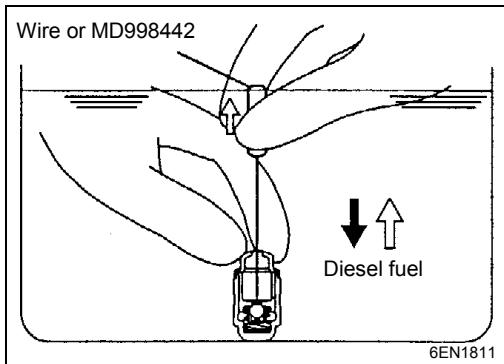
- (6) Remove the lash adjuster from the container. Then push down the steel ball gently and push the plunger to eliminate diesel fuel from the pressure chamber.



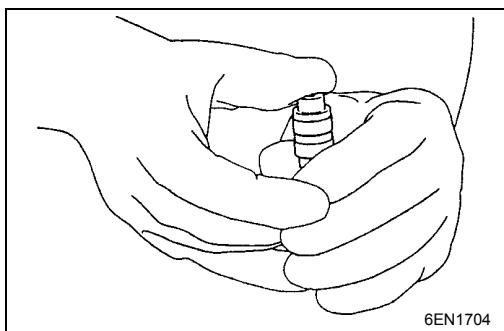
## Caution

- Do not use container C for cleaning. If cleaning is performed in container C, foreign matter could enter the pressure chamber when the chamber is filled with diesel fuel.

- (7) Place the lash adjuster in container C. Then, gently push down the internal steel ball using wire (0.5 mm in diameter) or special tool MD998442.



- (8) Stand the lash adjuster with its plunger at the top, then push the plunger downward firmly until it moves through its greatest possible stroke. Return the plunger slowly, then release the steel ball and allow the pressure chamber to fill with diesel fuel.

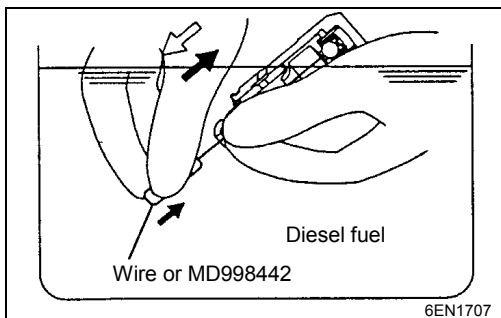
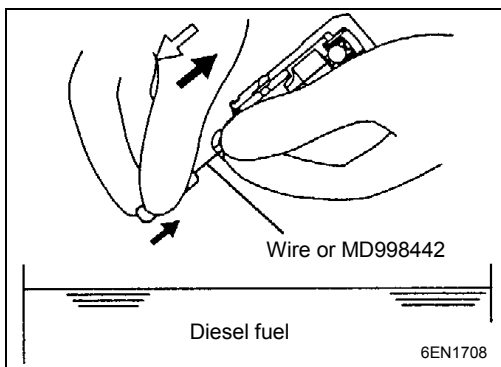
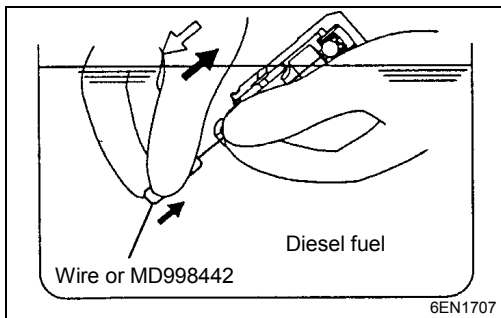
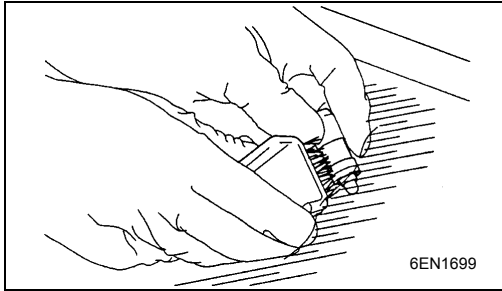
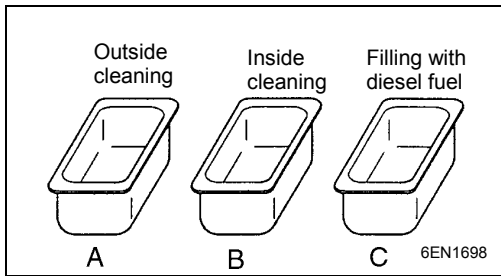


- (9) Remove the lash adjuster from the container, then stand the lash adjuster with its plunger at the top. Push the plunger firmly and check that it does not move.

## NOTE

If the lash adjuster contracts, then perform the operations 7 through 9 again to fill it with diesel fuel completely. Replace the lash adjuster if it still contracts after performing these steps.

- (10) Stand the lash adjuster upright to prevent diesel fuel from spilling out. Do not allow the lash adjuster to become contaminated by dirt or other foreign matter. Fit the lash adjuster onto the engine as soon as possible



## LASH ADJUSTERS

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- The lash adjuster adjusters are precision-engineered mechanisms. Do not allow them to become contaminated by dirt or other foreign substances.
  - Do not attempt to disassemble the lash adjusters.
  - Use only fresh diesel fuel to clean the lash adjusters.
- (1) Prepare three containers and approximately five liters of diesel fuel. Into each container, pour enough diesel fuel to completely cover a lash adjuster when it is standing upright. Then, perform the following steps with each lash adjuster.
  - (2) Place the lash adjuster in container A and clean its outside surface.

### NOTE

Use a nylon brush if deposits are hard to remove.

### Caution

- The steel ball spring is extremely weak, so the lash adjuster's functionality may be lost if the air bleed wire is pushed in hard.
- (3) While gently pushing down the internal steel ball using wire (0.5 mm in diameter) or special tool MD998442, move the plunger through five to ten strokes until it slides smoothly. In addition to eliminating stiffness in the plunger, this operation will remove dirty oil.

### NOTE

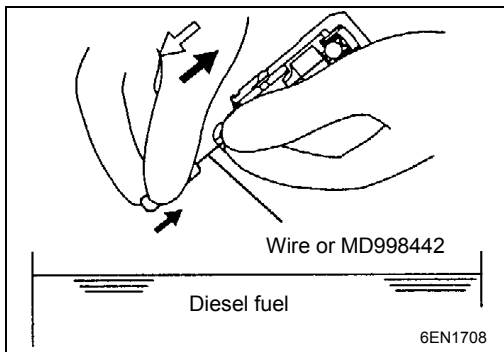
If the plunger remains stiff or the mechanism appears otherwise abnormal, replace the lash adjuster.

### Caution

- Make sure the oil hole in the side of the body is pointing toward container A. Do not point the oil hole at yourself or other people.
- (4) Remove the lash adjuster from the container. Then, push down the steel ball gently and push the plunger to eliminate diesel fuel from the pressure chamber.

### Caution

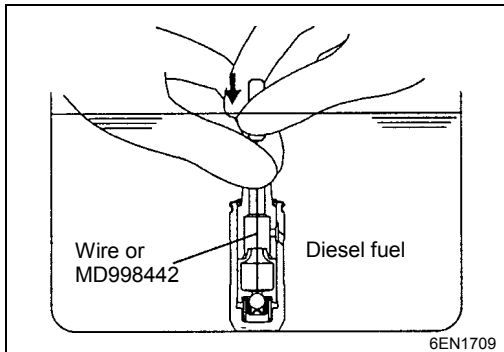
- The steel ball spring is extremely weak, so the lash adjuster's functionality may be lost if the air bleed wire is pushed in hard.
- (5) Place the lash adjuster in container B. Then, gently push down the internal steel ball using wire (0.5 mm in diameter) or special tool MD998442, and move the plunger through five to ten strokes until it slides smoothly. This operation will clean the lash adjuster's pressure chamber.



## Caution

- **Make sure the oil hole in the side of the body is pointing toward container A. Do not point the oil hole at yourself or other people.**

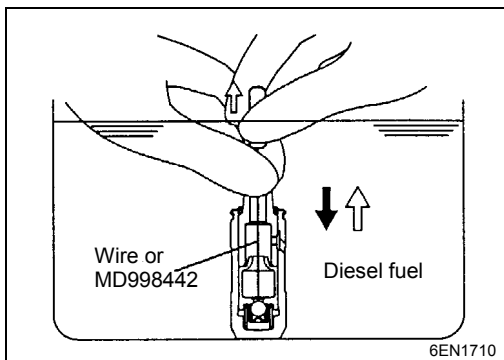
- (6) Remove the lash adjuster from the container. Then push down the steel ball gently and push the plunger to eliminate diesel fuel from the pressure chamber.



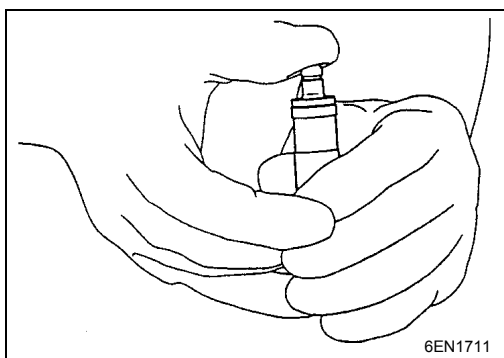
## Caution

- **Do not use container C for cleaning. If cleaning is performed in container C, foreign matter could enter the pressure chamber when the chamber is filled with diesel fuel.**

- (7) Place the lash adjuster in container C. Then, gently push down the internal steel ball using wire (0.5 mm in diameter) or special tool MD998442.



- (8) Stand the lash adjuster with its plunger at the top, then push the plunger downward firmly until it moves through its greatest possible stroke. Return the plunger slowly, then release the steel ball and allow the pressure chamber to fill with diesel fuel.



- (9) Remove the lash adjuster from the container, then stand the lash adjuster with its plunger at the top. Push the plunger firmly and check that it does not move.

## NOTE

If the lash adjuster contracts, then perform the operations 7 through 9 again to fill it with diesel fuel completely. Replace the lash adjuster if it still contracts after performing these steps.

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