

Parts

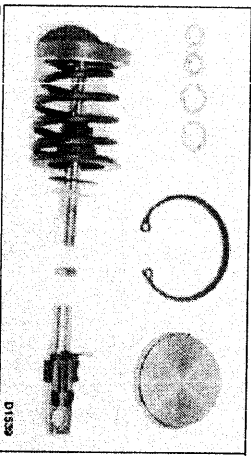


Figure 1 EBP Piston Rod Kit Contents

The EBP piston rod kit contains the following parts:

- Oil supply O-ring (2)
- Oil drain O-ring (2)
- Retaining ring
- End cover with O-ring
- Piston rod assembly
- Jam nut
- Latch end with slide lock

Replacement Procedure

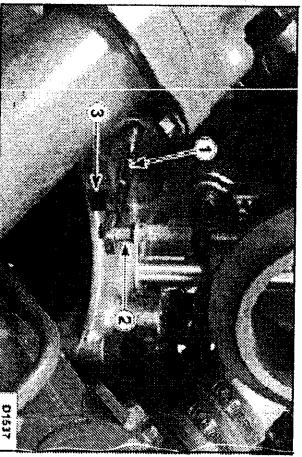


Figure 2 Disconnecting the EBP Piston Rod

1. EBP piston rod (latch end)
2. EBP control arm
3. Slide lock

1. To disconnect the piston rod from the control valve move the slide lock back and unhook the latch end from the control arm.

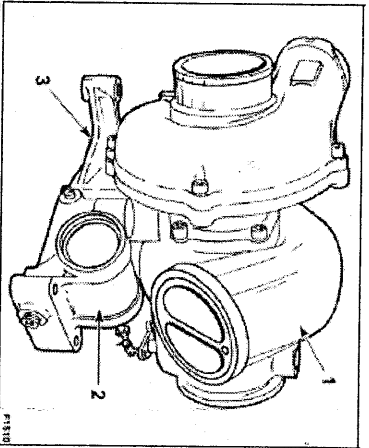


Figure 3 Turbocharger and Pedestal

1. Turbocharger
2. EBP piston housing
3. Pedestal

2. Remove the turbocharger from the pedestal.
3. Remove the pedestal from the engine.

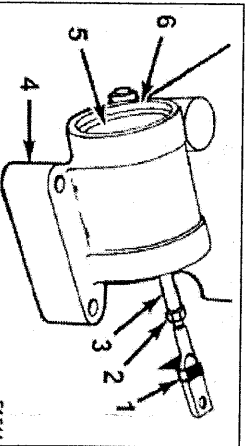


Figure 4 EBP Piston Rod Assembly Housing

1. Latch end
2. Jam nut (not included on production units)
3. Piston rod
4. Pedestal
5. End cover
6. Retaining ring

4. Unscrew the latch end (and jam nut, if equipped) from the piston rod. Hold the piston rod securely while unscrewing the latch end because it is crimped to the piston rod.
5. Remove the retaining ring from the housing.

6. Remove the end cover from the housing by gently tapping on the threaded end of the piston rod.
7. Remove the piston rod, spring, spring seat and two wiper seals (one black, one white) as an assembly from the housing. Discard the assembly.
8. Thoroughly clean the pedestal and the inside of the housing.
9. Lubricate the inside of the housing and the outside of the new EBP piston rod assembly with clean oil.

10. Install the new EBP piston rod assembly (without the jam nut and latch end) into the housing far enough to install the cover and retaining ring.

11. Lubricate the O-ring on the new end cover with clean oil. Install the end cover and retaining ring in the housing.

12. Install the jam nut and latch end on the threaded end of the piston rod. Install a new slide lock on the latch end.

13. Adjust the preload of the EBP piston rod on a workbench as follows:

- a. Install the turbocharger onto the pedestal on a workbench. Tighten the mounting bolts.

- b. Connect the latch end of the piston rod to the control arm. Do not close the slide lock.

- c. Attach a spring scale tester to the control arm and pull on the tester.

- d. To determine when the EBP control valve moves, insert a 0.01 in feeler gauge between the control valve stop and the stop on the turbocharger housing. When the feeler gauge falls out, take the reading on the spring scale tester.

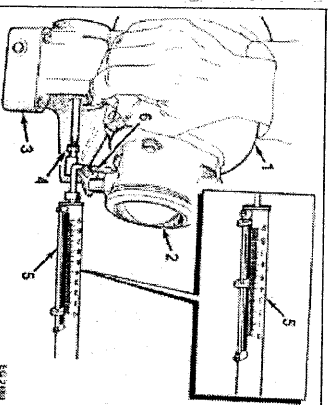


Figure 5 Testing the EBP Piston Rod Preload

1. Turbocharger
2. EBP control valve
3. Pedestal
4. Jam nut
5. Spring scale tester
6. Control valve stop

The reading on the spring scale tester should be 13 N (10 lb) when the feeler gauge falls out.

- e. If the preload of the EBP piston rod does not meet this specification, shorten or lengthen the piston rod by screwing the latch end in or out. Repeat the test procedure.

- f. When the proper preload is achieved, lock the jam nut against the latch end.

14. Disconnect the piston rod from the control arm.

15. Remove the turbocharger from the pedestal.

16. Install the pedestal on the engine. Use new oil feed and oil drain O-rings between the pedestal and the crankcase.

17. Install the turbocharger on the pedestal. Use new oil feed and oil drain O-rings between the turbocharger and the pedestal.

18. Connect the latch end of the piston rod to the control arm. Close the slide lock.