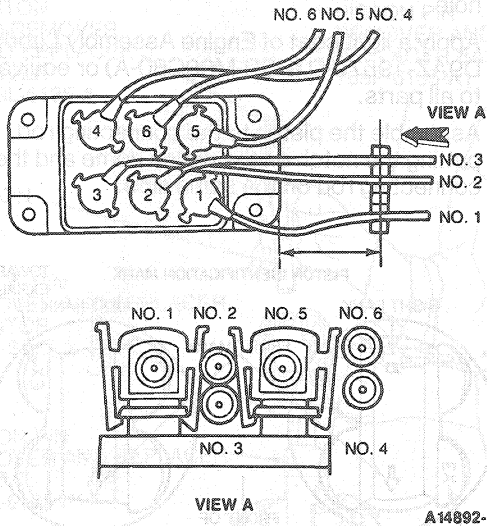


DISASSEMBLY AND ASSEMBLY (Continued)

c. Adjust wire routing.



30. Install upper timing belt cover.
31. Position intake manifold and new gaskets on cylinder heads and install retaining bolts. Tighten bolts to 15-23 N-m (11-17 lb-ft).
32. Install intake manifold bracket bolts. Tighten bolts to 15-23 N-m (11-17 lb-ft).
33. Connect EGR valve to exhaust manifold tube to EGR valve. Tighten to 25-34 N-m (18-25 lb-ft).
34. Connect electrical connectors and vacuum lines to intake manifold.
35. Install exhaust manifolds and gaskets. Tighten retaining bolts to 35-52 N-m (26-38 lb-ft).
36. Connect EGR valve to exhaust manifold tube to exhaust manifold. Tighten to 15-23 N-m (11-17 lb-ft).
37. Install exhaust heat shield retaining bolts. Tighten bolts to 15-23 N-m (11-17 lb-ft).
38. Install idler pulley bracket retaining bolts. Tighten bolts to 15-23 N-m (11-17 lb-ft).
39. Install power steering pump bracket retaining bolts. Tighten bolts to 36-55 N-m (27-41 lb-ft).

Cylinder Head

Tools Required:

- Impact Side Hammer T59C-100-B
- Pivot Bar, End Brand T87C-6586-A
- Valve Grot. Remover/Replacer T89P-6510-A
- Valve Grot. Replacer T89P-6510-B
- Valve Stem Seal Replacer T89P-6510-C

40. Position power steering pump on bracket and install retaining bolts. Tighten bolts to 20-32 N-m (15-24 lb-ft).
41. Install A/C compressor bracket retaining bolts. Tighten bolts to 36-55 N-m (27-41 lb-ft).
42. Install engine lifting eye retaining bolts. Tighten bolts to 15-23 N-m (11-17 lb-ft).
43. Install A/C compressor to bracket retaining bolts. Tighten bolts to 36-55 N-m (27-41 lb-ft).
44. Install generator bracket retaining bolts. Tighten bolts to 36-55 N-m (27-41 lb-ft).
45. Install generator retaining bolts. Tighten bolts to 34-50 N-m (25-37 lb-ft).
46. Install accessory drive belts. Refer to Section 03-05.
47. Install rear cover plate and flywheel. Tighten flywheel retaining bolts in two steps: 39-50 N-m (29-39 lb-ft) 69-78 N-m (51-58 lb-ft).

Subassemblies

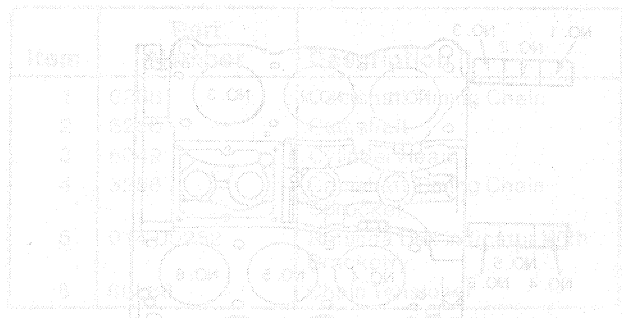
Pistons and Connecting Rods

Tools Required:

- Piston Pin Remover/Replacer Base T68P-6135-A1
- Piston Pin Remover/Replacer Sleeve T71P-6135-P1
- Feeler Gauge D81L-4201-A
- Piston Pin Remover and Replacer Driver and Locator D89L-6135-A

Disassembly

1. Remove bearing inserts from connecting rod and cap.
2. Remove piston rings using a suitable piston ring expander.
3. Mark connecting rod cap to ensure assembly with the same piston and installation in the same cylinders from which they were removed.



ATTENTION: If a piston ring is greater than maximum, replace connecting rod and flywheel.