



# Engine Block

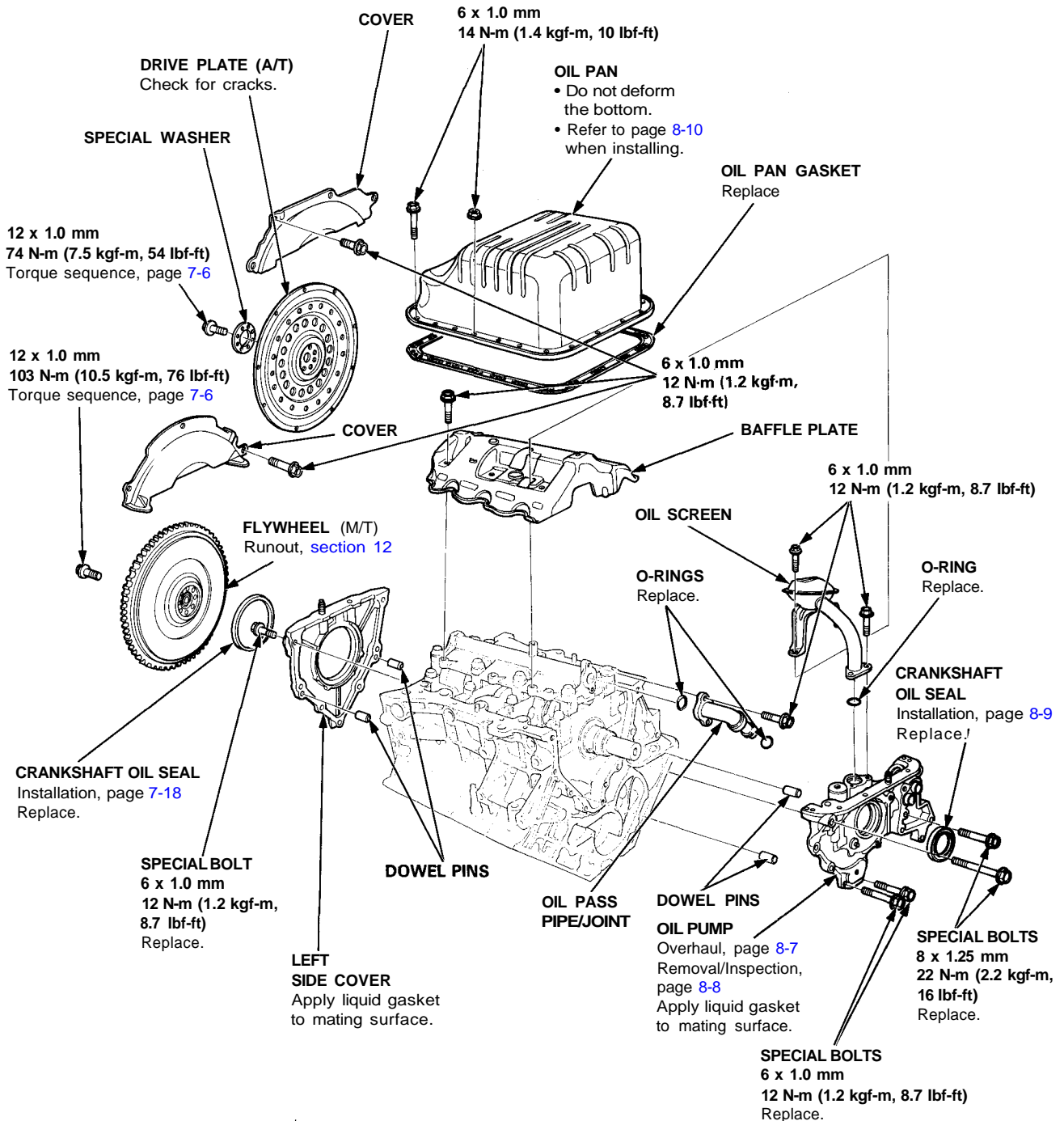
## Illustrated Index



Lubricate all internal parts with engine oil during reassembly.

### NOTE:

- Apply liquid gasket to the mating surfaces of the left side cover and oil pump case before installing them.
- Use liquid gasket, part No. 08718-0001 or 08718-0003.
- If the bottom of the oil pan is deformed, it should be repaired or the oil pan should be replaced to retain proper clearance between the screen and the bottom.



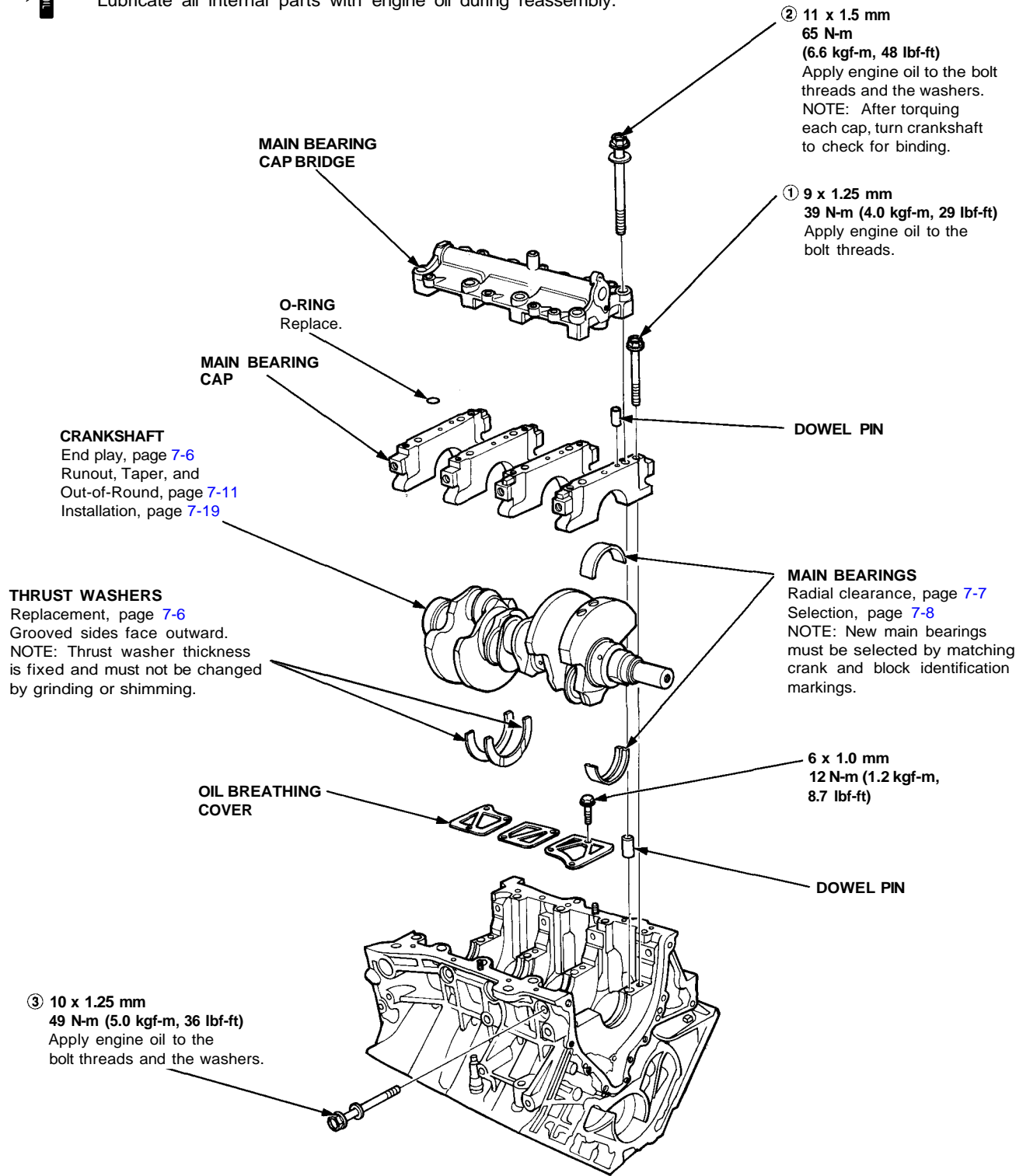
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# Engine Block

## Illustrated Index (cont'd)

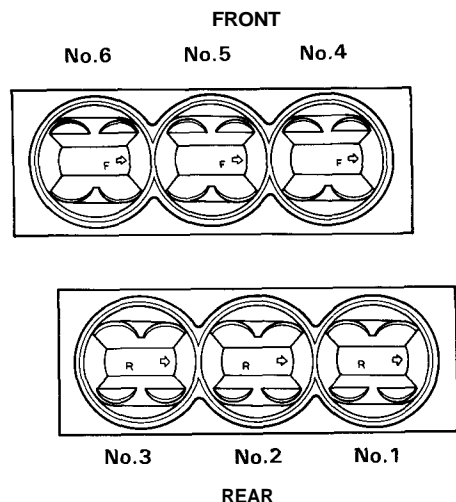


Lubricate all internal parts with engine oil during reassembly.





**NOTE:** New rod bearings must be selected by matching connecting rod assembly and crankshaft identification markings (see page 7-8).



### CAUTION:

- The piston skirt is coated with molybdenum; handle the piston carefully to prevent any damage.
- The connecting rods are made of titanium. Attempting to remove the piston pin with conventional shop equipment will damage the connecting rod.
- If the piston, connecting rod, or piston pin require replacement, all three must be replaced as an assembly.

### PISTON

Inspection, page 7-12

#### NOTE:

- Before removing piston, inspect the top of the cylinder bore for carbon build-up or ridge. Remove ridge if necessary, page 7-9.
- To maintain proper piston clearance, match the letter on the piston top (No letter denotes A.) with the letter for each cylinder stamped on the block.

### CONNECTING ROD BEARINGS

Clearance, page 7-7  
Selection, page 7-8

### CONNECTING ROD WASHER

### CONNECTING ROD BOLT

Inspect top of each cylinder bore for carbon build-up or ridge before removing piston.  
Remove ridge if necessary, page 7-9

### ENGINE BLOCK

Cylinder bore inspection, page 7-12  
Warpage inspection, page 7-12  
Cylinder bore honing, page 7-13

### CONNECTING ROD ASSEMBLY

End play, page 7-6  
Selection, page 7-14

### PISTON RINGS

Replacement, page 7-15  
Measurement, pages 7-15 and 7-16  
Alignment, page 7-16

### CYLINDER BORE SIZES

**NOTE:** To maintain proper piston clearance, match these letters with the letters on the pistons. The letters on the block read from left to right, No. 1 through No. 3 cylinders on the first line and No. 4 through No. 6 cylinders on the second line.

### CONNECTING ROD BEARING CAP

Installation, page 7-19

**NOTE:** Install caps so the bearing recess is on the same side as the recess in the rod.

### CONNECTING ROD CAP NUT

8 x 0.75 mm  
20 N·m (2.0 kgf-m, 14 lbf-ft)  
then turn 116°

Apply engine oil to the nut threads.  
After torquing each bearing cap, rotate crankshaft to check for binding.