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1. Bolt	7. Vibration Damper
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4. Lower Connecting Rod Bearing Shells	10. Crankshaft
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6. Engine Block	

*Figure 3. Crankshaft and Related Parts*

### Section 1.10.1

#### Removal of the Crankshaft

When removal of the crankshaft becomes necessary, first remove the transmission, then proceed as follows:

1. Steam clean the exterior of the engine.

# **Detroit Dd15 Parts Manual**

**General Motors Corporation. Detroit  
Diesel Allison Division**

A red circular graphic with a gradient, appearing as a partial circle or a thick arc, located to the right of the text box.

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