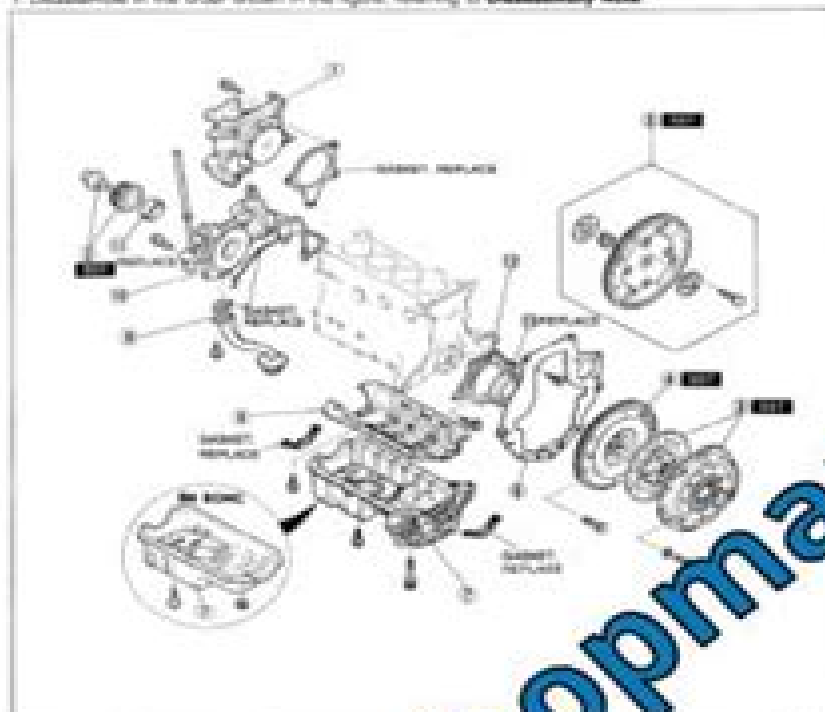


# Mazda Protege Workshop Manual 1989-1994

## CYLINDER BLOCK (EXTERNAL PARTS)

1. Disassemble in the order shown in the figure, referring to Disassembly Note.



- |                                      |                               |            |            |
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| 13. Rear oil seal                    | Disassembly Note              | page 51-49 |            |

### Crank cover (ATC)

1. Hold the flywheel with the SST or equivalent.
2. Loosen the crank cover bolt nuts in two or three steps in the order shown in the figure.
3. Remove the crank cover.



### Oil pan

1. Remove the oil pan mounting bolts.
2. Insert a screwdriver or a suitable tool into the oil pan and pry it away from the cylinder block.

**Caution**

- Do not damage or scratch the contact surfaces when removing the oil pan.

### BP 50HC

1. Remove the oil pan mounting bolts.

### Caution

- Do not form a prying tool between the cylinder block and the oil pan, which may damage the contact surfaces.
- Do not damage or scratch the contact surfaces when removing the oil pan.

2. Insert a screwdriver or a suitable tool into the oil pan and pry it away from the cylinder block.
3. Remove the oil pan.

### Main bearing support plate (MBSP)

1. Remove the MBSP mounting bolts from the main bearing cap.
2. Insert a screwdriver or a suitable tool between the MBSP and cylinder block, and pry them.

### Caution

- Do not damage or scratch the contact surfaces when removing oil seal.

### Front oil seal

1. Remove the oil seal with a screwdriver protected with a rag.

### Rear oil seal

1. Remove the oil seal with a screwdriver protected with a rag.



# Mazda Protege Repair Manual Suspension And Steering

**R Barnett**



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web the doppler effect states that if two objects are moving closer together perceived frequencies for emitted waves will be higher if you are jogging away from the car at but the car is traveling at a star emits visible color at if the star is moving away from a stationary observer which of the following cannot be the wavelength observed

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web the doppler effect occurs not only for sound but for any wave when there is relative motion between the observer and the source doppler shifts occur in the frequency of sound light and water waves for example doppler shifts can be used to determine velocity such as when ultrasound is reflected from blood in a medical diagnostic

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web solution velocity of observer  $v_o = 5 \text{ m/s}$  1 velocity of sound  $v_s = 340 \text{ m/s}$  2 according to doppler's effect frequency  $f_v$   $v_o = 3 \text{ f} = 335 \text{ 5335 20 350 324 26hz}$  example solve problems on doppler effect where non linear motion is