

# Hyundai Matrix 2001-2010 Workshop Manual

## MAIN MOVING SYSTEM

EMA-37

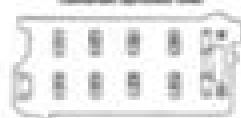
1. Tighten the bearing caps to the specified torque in two or three steps as shown.

### Tightening torque

Bearing cap bolt :

12 - 14Nm (125 - 140kg-cm, 9 - 10ft-lb)

Crankshaft sprocket cap



Illustration

2. Using the special tool, crankshaft oil seal installer (88001-00000), press fit the crankshaft oil seal. Be sure to apply engine oil to the oil seal lip. Insert the oil seal along the crankshaft front end and make it strong the installer with a hammer until the oil seal is fully seated.



Illustration

3. Install the crankshaft sprocket bolts to the specified torque.

### Tightening torque

Crankshaft sprocket bolt :

80 - 100Nm (800 - 1000kg-cm)



Illustration

4. Align the crankshaft sprocket and camshaft sprocket timing marks. Place the piston in the No.1 cylinder to top dead center on the compression stroke.

5. Install the cylinder head cover.

### Tightening torque

Cylinder head cover bolt :

8 - 10Nm (80 - 100kg-cm, 6 - 7ft-lb)



Illustration

10. Install the spark plug cables, ignition coil assembly and cylinder head sensor cover.

11. Install the timing belt and then tighten the timing tensioner pulley.

12. Install the timing belt cover.

### Tightening torque

Timing belt cover : 8 - 10Nm (80)

13. Install the camshaft sprocket and camshaft pulley.



Illustration

## CYLINDER BLOCK

## ENGINE MOUNTS

### COMPONENTS

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TM-22



TORQUE : Nm (kg-cm, ft-lb)

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