

# Hyundai Matrix 2001-2010 Workshop Manual

## MAIN MOVING SYSTEM

EMA-37

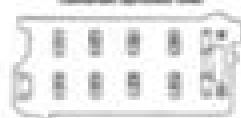
1. Tighten the bearing caps to the specified torque in two or three steps as shown.

### Tightening torque

Bearing cap bolt :

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

Crankshaft assembly view



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 assembly bolts to the specified torque.

### Tightening torque

Crankshaft assembly 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 :

6 - 10Nm (60 - 100kg-cm, 5 - 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 : 6 - 10Nm (60 - 100kg-cm)

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)

# Hyundai Matrix 2001 2013 Workshop Service Repair Manual

**Tim Imhoff**



## **Hyundai Matrix 2001 2013 Workshop Service Repair Manual:**

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Service Repair Manual for Hyundai Lantra Peter Rainer Dieter Russek,1992-07-01     **Hyundai Santa Fe Automotive Repair Manual** Haynes Publishing,2015-11 Part of a series of manuals for car or motorcycle owners the Chilton Automotive Repair Manuals provide information on routine maintenance and repair for the DIY mechanic with all tasks described and photographed in a step by step sequence This manual focuses on the Hyundai Santa Fe vehicle     **Hyundai Sante Fe** Editors of Haynes Manuals,2016-03-15 Complete coverage for your Hyundai Santa Fe for 2001 through 2012 Routine Maintenance and servicing Tune up procedures Engine clutch and transmission repair Cooling system Fuel and exhaust Ignition and electrical systems Brakes wheels and tires Steering suspension and final drive Frame and bodywork Wiring diagrams Reference Section With a Haynes manual you can do it yourself from simple maintenance to basic repairs Haynes writes every book based on a complete teardown of the vehicle We learn the best ways to do a job and that makes it quicker easier and cheaper for you Our books have clear instructions and hundreds of photographs that show each step Whether you re a beginner or a pro you can save big with Haynes Step by step procedures Easy to follow photos Complete troubleshooting section Valuable short cuts Color spark plug diagnosis     **Toyota Matrix & Pontiac Vibe 2003 thru 2011** John Haynes,2012-09-01 With a Haynes manual you can do it yourself from simple maintenance to basic repairs Haynes writes every book based on a complete teardown of the vehicle We learn the best ways to do a job and that makes it quicker easier and cheaper for you Our books have clear instructions and hundreds of photographs that show each step Whether you re a beginner or a pro you can save big with Haynes Step by step procedures Easy to follow photos Complete troubleshooting section Valuable short cuts Color spark plug diagnosis Complete coverage for your Toyota Matrix and Pontiac Vibe Haynes Repair Manual for 2003 thru 2011 Routine Maintenance Tune up procedures Engine repair Cooling and heating Air Conditioning Fuel and exhaust Emissions control Ignition Brakes Suspension and steering Electrical systems Wiring diagrams     **Service Repair Manual for Hyundai Pony Front-wheel Drive, 1300 and 1500 Cc to 1987** Peter Russek,1987     **Hyundai Santa Fe 2001-2006** Tim Imhoff,John Harold Haynes,2008 Haynes manuals are written specifically for the do it yourselfer yet are complete enough to be used by professional mechanics Since 1960 Haynes has produced manuals written from hands on experience based on a vehicle teardown with hundreds of photos and illustrations making Haynes the world leader in automotive repair information     Hyundai Sonata 1999 thru 2014 Editors of Haynes

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