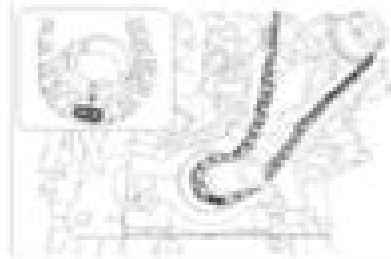


# Hyundai Grandeur 2014-2017 Workshop Manual



## NOTICE

To install the timing chain with no slack between each shaft (cam, crank), follow the below procedure.  
Crankshaft sprocket → Timing chain guide → Exhaust camshaft sprocket → Intake camshaft sprocket.  
The timing mark of each sprocket should be matched with timing mark (color link) of timing chain at installing.

## 6. Install the LH timing chain guide (A).

### Tightening torque

10.0 ~ 24.5N·m (2.0 ~ 2.5kgf·m, 14.5 ~ 18 lbf·ft)



## 7. Install the LH timing chain sub-tensioner (A) and LH timing chain tensioner (B).

### Tightening torque

A : 9.0 ~ 11.0N·m (1.0 ~ 1.2kgf·m, 7.2 ~ 8.75 lbf·ft)

B : 10.0 ~ 25.0N·m (1.0 ~ 2.5kgf·m, 13.7 ~ 18.25 lbf·ft)



## 8. Install the LH timing chain to cam guide (B).

### Tightening torque

9.0 ~ 11.0N·m (1.0 ~ 1.2kgf·m, 7.2 ~ 8.75 lbf·ft)



## Torque (N·m (kgf·m, lbf·ft))

- |                                  |                               |                              |
|----------------------------------|-------------------------------|------------------------------|
| 1. Camshaft bearing cap          | 6. Retainer                   | 17. LH Intake camshaft (CCV) |
| 2. Camshaft front bearing cap    | 10. Valve spring              | 18. Fuel pump bracket        |
| 3. LH Exhaust camshaft           | 11. Valve stem seal           | 19. LH Intake camshaft       |
| 4. LH Intake camshaft            | 12. Valve                     | 20. LH Exhaust camshaft      |
| 5. LH Exhaust CVVT assembly      | 13. LH Intake camshaft (CCV)  | 21. LH Intake CVVT assembly  |
| 6. LH Intake CVVT assembly       | 14. LH Exhaust camshaft (CCV) | 22. LH Intake CVVT assembly  |
| 7. Mechanical fan adjuster (MFA) | 15. LH Cylinder head          | 23. LH Cylinder head         |
| 8. Retainer lock                 | 16. LH Exhaust camshaft (CCV) |                              |

## Engine Mechanical System

### Removal

#### CAUTION

- Use tender sootors to avoid damaging painted surfaces.
- To avoid damaging the cylinder head, wait until the engine coolant temperature drops below normal temperature (20°C (68°F)) before removing it.
- When handling a metal gasket, take care not to bend the gasket or damage the contact surface of the gasket.
- To avoid damage, install the timing components carefully while holding the connector portion.



# Hyundai Granduar Manual

**Linsu Kim**



## **Hyundai Granduar Manual:**

**The Bulletin** ,2000-03      *Expatriate Cost of Living Survey* ,1991      *Focus On: 100 Most Popular Sedans* Wikipedia contributors,      *Business Review Weekly* ,2000      *Australian CPA.* ,2000      **Korea Newsreview** ,1991-07

**Operational Expert System Applications in the Far East** Jae Kyu Lee,1991 Part of a series on expert systems around the world Operational Expert System Applications in the Far East covers various aspects of expert system applications in the Far East Some of the industries this book reports on include Steel electro mechanical power automobile oil paper airline and diagnosis      **Popular Mechanics** ,2000-06 Popular Mechanics inspires instructs and influences readers to help them

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Linsu Kim,1999-01-01 These essays identify the evolutionary processes and patterns of learning capability building and innovation in catch up countries They suggest that such economies have different patterns of learning from those of advanced countries Kim uses the example of Korea to examine various industries      **Materials Transactions** ,2008

**Road and Track** ,1989      **Popular Science** ,2001-02 Popular Science gives our readers the information and tools to improve their technology and their world The core belief that Popular Science and our readers share The future is going to be better and science and technology are the driving forces that will help make it better      *Korea Economic Report* ,2005

Shop Manual Hyundai Hyundai Motor Company (Seoul),1993      **Popular Mechanics** ,2000      **Business Strategy** Irene Chow,2004 Offers a taste of the diverse management and economic climate in Asia by placing a magnifying glass over the economies of Asia It first develops a framework for understanding business strategy then provides a detailed profile of Asian countries with spotlights on their business characteristics and how that affects the implementation of strategy

Marine Engineers Review ,1995      **Kapital** ,2002      **Index de Périodiques Canadiens** ,2001

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