

# Holden Jackaroo 1991-2006 Workshop Manual

## Legend

- (1) Crankshaft Pulley
- (2) Generator
- (3) Auto Tensioner
- (4) Idle Pulley
- (5) Cooling Fan Pulley
- (6) Power Steering Oil Pump
- (7) Drive Belt
- (8) Air Conditioner Compressor

12. Remove grease cleaning oil pump pulley.
13. Remove fan pulley and bracket assembly.
14. Remove idle pulley assembly.
15. Remove auto tensioner assembly.
16. Remove crankshaft pulley using 5-0940-0105-0 crankshaft holder.
17. Remove timing belt covers from the right bank side in the left bank side in order.
18. Remove ignition coil assemblies for the left side bank.



## Legend

- (1) Ignition Coil Connectors
- (2) Bolts
- (3) Ignition Coil Assemblies

19. Remove cylinder head cover assembly.

## Installation

1. Install cylinder head cover assembly.
  - Clean the new cylinder head and cylinder head cover gasket off and sealing materials.
  - Apply sealant (RTV or equivalent) of head diameter 2-3 mm in eight places of contact area of crankshaft bracket on front and rear sides.

- The cylinder head cover must be installed within 5 minutes after sealant application to prevent premature hardening of sealant.



- Tighten bolts to the specified torque.  
Torque : 8 Nm (0.8 kg-m/5.9 ft-lb)



2. Install ignition coil assemblies and tighten the firing bolts to the specified torque.  
Torque : 4 Nm (0.4 kg-m/3.0 ft-lb)
3. Install timing belt covers from left bank side to right bank side, and tighten the firing bolts and nut to the specified torque.  
Torque : 10 Nm (1.0 kg-m/7.4 ft-lb)
4. Install crankshaft pulley and tighten the firing bolt using 5-0940-0105-0 crankshaft holder to the specified torque.  
Torque : 107 Nm (11.2 kg-m/72.5 ft-lb)

## Removal



## Legend

- (1) Engine Assembly
- (2) Crankshaft Pulley
- (3) Timing Belt Cover
- (4) Timing Belt
- (5) Crankcase with Oil Pan
- (6) Oil Pipe
- (7) Oil Scanner
- (8) Oil Pump Assembly
- (9) Cylinder Body Side Bolt
- (10) Oil Gallery
- (11) Flywheel
- (12) Rear Oil Seal Retainer
- (13) Connecting Rod Cap
- (14) Crankshaft Main Bearing Cap
- (15) Crankshaft and Main Bearing

1. Remove engine assembly.
  - Refer to removal procedure for Engine Assembly in this manual.
2. Remove timing belt.
  - Refer to removal procedure for Timing Belt in this manual.
3. Remove oil pump assembly.
  - Refer to removal procedure for Oil Pump in this manual.
4. Remove cylinder body side bolts.
5. Remove oil gallery.
6. Remove flywheel.
7. Remove rear oil seal retainer.
  - Refer to removal procedure for Rear Oil Seal in this manual.

8. Remove oil pan and crankcase.
  - Refer to removal procedure for Oil Pan and Crankcase in this manual.
9. Remove oil pipe with O-ring.
10. Remove oil scanner assembly with O-ring.



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## **Table of Contents Jackaroo Workshop Manual**

1. Understanding the eBook Jackaroo Workshop Manual
  - The Rise of Digital Reading Jackaroo Workshop Manual
  - Advantages of eBooks Over Traditional Books
2. Identifying Jackaroo Workshop Manual
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Jackaroo Workshop Manual
  - User-Friendly Interface
4. Exploring eBook Recommendations from Jackaroo Workshop Manual
  - Personalized Recommendations
  - Jackaroo Workshop Manual User Reviews and Ratings
  - Jackaroo Workshop Manual and Bestseller Lists
5. Accessing Jackaroo Workshop Manual Free and Paid eBooks
  - Jackaroo Workshop Manual Public Domain eBooks
  - Jackaroo Workshop Manual eBook Subscription Services
  - Jackaroo Workshop Manual Budget-Friendly Options

6. Navigating Jackaroo Workshop Manual eBook Formats
  - ePub, PDF, MOBI, and More
  - Jackaroo Workshop Manual Compatibility with Devices
  - Jackaroo Workshop Manual Enhanced eBook Features
7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Jackaroo Workshop Manual
  - Highlighting and Note-Taking Jackaroo Workshop Manual
  - Interactive Elements Jackaroo Workshop Manual
8. Staying Engaged with Jackaroo Workshop Manual
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Jackaroo Workshop Manual
9. Balancing eBooks and Physical Books Jackaroo Workshop Manual
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Jackaroo Workshop Manual
10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
11. Cultivating a Reading Routine Jackaroo Workshop Manual
  - Setting Reading Goals Jackaroo Workshop Manual
  - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Jackaroo Workshop Manual
  - Fact-Checking eBook Content of Jackaroo Workshop Manual
  - Distinguishing Credible Sources
13. Promoting Lifelong Learning
  - Utilizing eBooks for Skill Development
  - Exploring Educational eBooks
14. Embracing eBook Trends
  - Integration of Multimedia Elements

- Interactive and Gamified eBooks

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