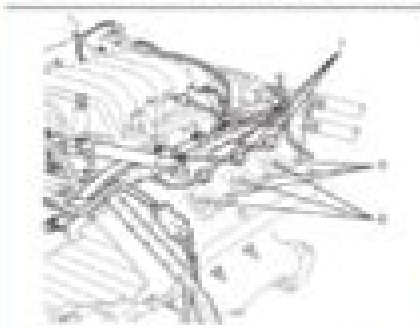


Holden Jackaroo 1991-2006 Workshop Manual

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 Compressor 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

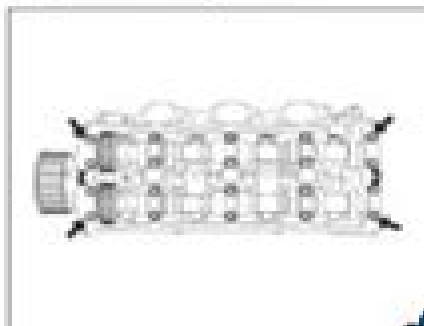
- (1) Ignition Coil Connectors
- (2) Bolts
- (3) Ignition Coil Assemblies

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/5.8 ft-lb)



2. Install ignition coil assemblies and tighten the firing bolts to the specified torque.
Torque : 4 Nm (0.4 Kg-m/3.5 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/7.5 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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