

Holden Jackaroo 1991-2006 Workshop Manual

Legend

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

12. Remove power steering 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 5-0040-0103-0 crankshaft holder.
17. Remove timing belt covers from the right bank side to 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 gasket off and sealing materials.
 - Apply sealant (RTV or equivalent) of head diameter 3-5 mm to right piece of angled 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/18 lb in)



2. Install ignition coil assemblies and tighten the firing bolts to the specified torque.
Torque : 8 Nm (0.8 Kg m/18 lb in)
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/14 lb ft)
4. Install crankshaft pulley and tighten the firing bolt using 5-0040-0103-0 crankshaft holder to the specified torque.
Torque : 107 Nm (17.2 Kg m/123 lb ft)

Removal



Legend

- (1) Engine Assembly
- (2) Crankshaft Pulley
- (3) Timing Belt Cover
- (4) Timing Belt
- (5) Covercase with Oil Pan
- (6) Oil Pan
- (7) Oil Strainer

- (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 strainer assembly with O-ring.



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web pipe weight is calculated as $\pi \times \text{diameter of the pipe in m} \times \text{length in m} \times \text{thickness in mm} \times \text{density of pipe material}$
density of cs 7 85 g cm³ the volume of water required for hydro testing is estimated as $\pi \times \text{pipe id in meter}^2 \times \text{length of pipe}$
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web determine the required pipe size of each section and outlet of the piping system shown in figure a 6 1 with a designated pressure drop of 0 5 inch w c 125 pa using the longest length method the gas to be used has 0 60 specific gravity and a heating value of 1 000 btu ft 3 37 5 mj m 3 solution maximum gas demand for outlet a the length of pipe