

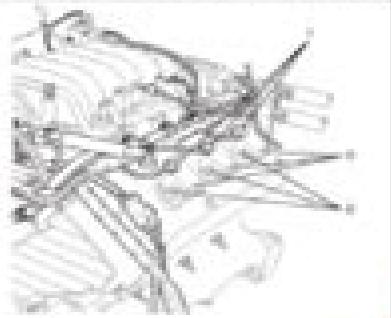
# Holden Jackaroo 1991-2006 Workshop Manual

**Legend:**

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

---

- (9) Remove power steering oil pump pulley
- (10) Remove fan pulley and bracket assembly
- (11) Remove drive pulley assembly
- (12) Remove auto transomer assembly
- (13) Remove power steering pump using 6-8840-01101-0 counter-clockwise torque.
- (14) Remove timing belt covers from the right hand side in the left hand side in order
- (15) Remove engine oil assemblies for the left side cover.



**Legend:**

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

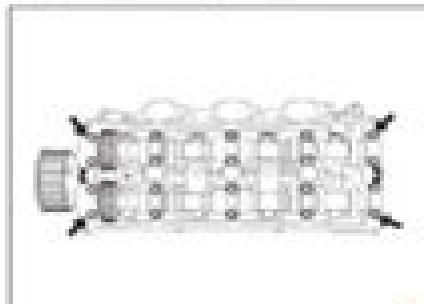
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- (16) Remove cylinder head cover assembly.

**Installation:**

1. Install cylinder head.
2. Clean the new cylinder head gasket and cylinder head.
3. Apply sealant (GASKIT 2000 or equivalent) to head gasket (0.5 mm x 10 mm) to each area of cylinder head on front and rear sides.

- 4. The cylinder head cover must be installed within 8 hours after cylinder reassembly to prevent premature hardening of sealant.



- 5. Tighten bolts to the specified torque.



6. Install cylinder coil assemblies and tighten the timing bolts to the specified torque.
7. Torque : 48 Nm (35.4 Kgm/35.4 kgf-m)
8. Install timing belt covers from left hand side to right hand side, and tighten the timing bolts and nut to the specified torque.
9. Torque : 10 Nm (0.9 Kgm/0.9 kgf-m)
10. Install crankshaft pulley and tighten the timing belt using 6-8840-01101-0 counter-clockwise torque to the specified torque.
11. Torque : 142 Nm (101.2 Kgm/101.2 kgf-m)

## Removal



### Legend:

- (1) Engine Assembly
- (2) Crankshaft Pulley
- (3) Timing Belt Cover
- (4) Timing Belt
- (5) Cylinder with Oil Pan
- (6) Oil Pipe
- (7) Oil Screws
- (8) Oil Pump Assembly
- (9) Cylinder Body Side Bolt
- (10) Oil Gaskets
- (11) Flywheel
- (12) Rear Oil Seal Retainer
- (13) Connecting Rod Cover
- (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.



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web pipe weight is calculated as  $\pi \times$  diameter of the pipe in m  $\times$  length in m  $\times$  thickness in mm  $\times$  density of pipe material density of cs 7 85 g cm<sup>3</sup> the volume of water required for hydro testing is estimated as  $\pi \times$  pipe id in meter <sup>2</sup>  $\times$  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<sup>3</sup> 37 5 mj m<sup>3</sup> solution maximum gas demand for outlet a the length of pipe