

## ENGINE TUNE-UP &amp; MAINTENANCE

| Hydrometer Reading % | VZ Models                   |        |              |        |
|----------------------|-----------------------------|--------|--------------|--------|
|                      | Antifreeze/Inhibitor to Add |        |              |        |
|                      | V6                          |        | GenIII/IV V8 |        |
|                      | Auto                        | Manual | Auto         | Manual |
| 0                    | 4.95                        | 5.15   | 5.50         | 5.70   |
| 5                    | 4.46                        | 4.62   | 4.95         | 5.13   |
| 10                   | 3.96                        | 4.12   | 4.40         | 4.56   |
| 15                   | 3.47                        | 3.61   | 3.85         | 3.99   |
| 20                   | 2.97                        | 3.08   | 3.30         | 3.41   |
| 25                   | 2.48                        | 2.57   | 2.75         | 2.85   |
| 30                   | 1.98                        | 2.01   | 2.20         | 2.28   |
| 35                   | 1.48                        | 1.54   | 1.65         | 1.72   |
| 40                   | 0.99                        | 1.05   | 1.10         | 1.14   |
| 45                   | 0.50                        | 0.52   | 0.55         | 0.57   |
| 50                   | 0                           | 0      | 0            | 0      |

**Coolant Level Check**

All V6, 5.0 V8 &amp; VZ GenIII/GenIV V8

1. The coolant level is inspected by checking the coolant reservoir, check dip stick.



2. Also remove radiator cap to check coolant level, the coolant level MUST be to the top of the radiator neck.

**Tip:** It is possible for the coolant reservoir to have the correct reading on the dip stick and the water level in the radiator to be low.  
**Note:** Only remove radiator cap if the cooling system is cold.

The coolant level should be in between the indicator arrows on the dipstick at the coolant recovery tank.

**VT-VX GenIII V8**

The coolant level is inspected by checking the coolant reservoir. The coolant level should be in between the indicator lines on the side of the coolant recovery tank.

**Radiator Cap**

**Note:** Only remove radiator cap if the cooling system is cool.  
**Note:** Depending on the engine temperature the level will vary.

If removing the radiator cap when the engine is cold, the coolant level should be to the top of the radiator filler.

**Coolant System Refill**

If the cooling system needs to be drained, specific procedures need to be followed when refilling the cooling system, to ensure that no air locks are left in the cooling system.

\* Refer to Cooling System Chapter for detailed information and procedures.

**Coolant Capacity:**

|                 |                          |
|-----------------|--------------------------|
| VT-VY (V6 & V8) | 12 Litres                |
| VZ V6           | Auto ..... 9.9 Litres    |
|                 | Manual ..... 10.3 Litres |
| VZ GenIII/IV    | Auto ..... 11.0 Litres   |
|                 | Manual ..... 11.4 Litres |

**BATTERY INSPECTION**

Check the battery terminals for corrosion and poor contact with battery posts, repair as required. Check battery electrolyte levels, top up if required using distilled water.

**Note:** For detailed procedures covering battery testing and charging refer to the Body Electrical Chapter.

**AIR FILTER****Inspect & Clean**

Remove the air filter element and inspect to ensure it is not excessively dirty, damaged or contaminated with oil. If the element is contaminated with oil, replace it with a new element.

Thoroughly clean the element housing of any dirt, dust oil or any other contaminants. Use compressed air to blow any dust particles out of the filter element, blow from the inside of the element to the outside. Thoroughly clean the outside of the element from the outside.

# Vx V6 Commodore Engine Repair Manual

**William Boddy**



## **Vx V6 Commodore Engine Repair Manual:**

*Holden Commodore Automotive Repair Manual* Tim Imhoff, John Harold Haynes, 1997-01-01 Commodore Series VB VC VH VK 2 8L 3 3L 6 cylinder engines Motor Sport William Boddy, 1972 *Holden Commodore*, 2008 This Gregory's workshop manual covers the V6 and V8 versions of the Commodore VT VT II VX VX II VZ and VZ II models produced from 1997 to 2006 sedans and 2007 wagon and utility While it is not a factory manual it is an excellent guide with illustrated step by step descriptions of repair and maintenance procedures based on an actual vehicle stripdown Includes some information on the 4L60 E auto and Getrag 260 290 manual gearbox **The British National Bibliography** Arthur James Wells, 1972

Commodore 1997-2004 Editors Ellery Publications, 2005-08-21 This comprehensive manual covers the complete Holden Commodore range including the Utility Station Wagon and Statesman models YThe first chapter Engine tune up and maintenance guides you through the most basic maintenance and tune up procedures It includes all specifications required regardless of whether you are an owner wishing to change the oil or a mechanic requiring detailed specifications for tune up and maintenance There are comprehensive chapters full of photographs and easy to follow instructions covering the 6Cyl V8 Engines Automatic Manual Transmissions Fuel and Engine Management Systems Brakes Suspension Steering Rear Axle Assembly Body Electronics Heating Interior Exterior Body etc There is a dedicated section covering Troubleshooting and Diagnostic Information as well as a comprehensive detailed electrical diagrams The only manual available covering the complete VT VX VY family of vehicles It is a must have for the D I Y home mechanic through to the trade professionals This comprehensive manual consists of 492 pages of step by step instructions with over 800 reference diagrams and photographs

Commodore 1997-2002, 2003 *Autocar & Motor*, 1992-11-04 *Motor Cycling and Motoring*, 1971 Holden Commodore 1997 Thr 2002 Larry Warren, jt. author Haynes, 2003 **Holden Commodore and Toyota Lexcen Automotive Repair Manual** Tim Imhoff, John Harold Haynes, 2006-01-01 Holden Commodore Toyota Lexcen Series VN VP VQ VR VS Sedan Wagon Utility with 3 8L V6 and 5 0L V8 engines Also includes Series VS thru 1998 Does not include information specific to LPG models Autocar, 2004 The Autocar, 1972 **Commodore VN to VS - 1998 to 1997, Lexcen VN to VR, T4, T5 - 1988-1997, Statesman VQ, VR and VS - 1990 to 1999, Utility VG, VR and VS - 1988-2000 3.8 Litre V6 and 5.0 Litre V8 Engines**, 2010 **Holden Commodore VT Automotive Repair Manual** Larry Warren, John Harold Haynes, 2003-01-01 **Commodore 1997-2004** Editors Ellery Publications, 2005-08-21 This comprehensive manual covers the complete Holden Commodore range including the Utility Station Wagon and Statesman models YThe first chapter Engine tune up and maintenance guides you through the most basic maintenance and tune up procedures It includes all specifications required regardless of whether you are an owner wishing to change the oil or a mechanic requiring detailed specifications for tune up and maintenance There are comprehensive chapters full of photographs and easy to follow instructions covering the 6Cyl V8 Engines Automatic Manual Transmissions Fuel and Engine

Management Systems Brakes Suspension Steering Rear Axle Assembly Body Electronics Heating Interior Exterior Body etc  
There is a dedicated section covering Troubleshooting and Diagnostic Information as well as a comprehensive detailed electrical diagrams The only manual available covering the complete VT VX VY family of vehicles It is a must have for the D I Y home mechanic through to the trade professionals This comprehensive manual consists of 492 pages of step by step instructions with over 800 reference diagrams and photographs      **Commodore VC Series 4cyl. Service and Repair Manual** ,      **Commodores** Ellery Publications,1994-07-01      Holden Commodore VC Series ,1980      **Chevrolet Engine Overhaul Manual** John Haynes,1991-09-05 A complete step by step guide to the entire engine rebuilding process Every step is fully illustrated Covers the most popular engines Everything youll need to know to do it yourself In a clear easy to follow format What you can learn Includes 262 265 267 283 302 305 307 327 350 396 400 402 427 and 454 cubic inch V8 engines Diagnosis Overhaul Performance Economy modifications Book Summary Engine identification Tools and equipment Diagnosis Cylinder head servicing Engine removal and installation Step by step procedures Fully illustrated with over 300 photos Tips from professionals Machine shop repairs Performance and economy modifications Table of Contents Chapter 1 Introduction Chapter 2 Tools and equipment Chapter 3 Diagnosing engine problems Chapter 4 Preparing for an overhaul Chapter 5 Overhauling the cylinder heads Chapter 6 Overhauling the engine block Chapter 7 Reassembling and installing the engine Chapter 8 Related repairs Chapter 9 Improving performance and economy      **Holden Commodore VC Series** ,1980

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