

## 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.

*Note: It is possible for the coolant reservoir to have the correct reading on the dipstick 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) ..... 1.2 Litres

VZ V6 ..... 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 &amp; 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.

# Commodore Service Manual

**A Gutmann**

## Commodore Service Manual:

[Holden Commodore VC Series](#) ,1980    [Holden Commodore VC Series](#) ,1980    **Holden Commodore and Calais VT Series Service Manual** ,1997    **Popular Mechanics** ,1974-03 Popular Mechanics inspires instructs and influences readers to help them master the modern world Whether it's practical DIY home improvement tips gadgets and digital technology information on the newest cars or the latest breakthroughs in science PM is the ultimate guide to our high tech lifestyle    **Holden Commodore Automotive Repair Manual** Tim Imhoff,John Harold Haynes,1997 Commodore Series VL 3 0L 3 0L turbo 6 cylinder engines    **Australian national bibliography** ,1961    **Holden Commodore VH Series** General Motors-Holden's Sales Pty. Ltd. Service Division,1981    **Holden Commodore VE Automotive Repair Manual** Greg Williams,Chris Anderson,John Harold Haynes,2013 This is an automotive maintenance and repair manual for the Holden Commodore VE The book is suitable for the DIY mechanic    [Australian National Bibliography: 1992](#) National Library of Australia,1988    [Holden Commodore VC Series](#) ,1980    [Holden Commodore VT Automotive Repair Manual](#) Larry Warren,John Harold Haynes,1998-01-01    *Holden Commodore, Holden Calais* ,1984 Service manual no M39101 Includes Holden Berlina    [Holden Commodore VB Series](#) ,1979    **Holden Commodore V Series Five Speed Manual Transmission** ,1983    **Holden Commodore, Calais, Statesman and Caprice. VR Series Service Manual** ,1993

**Commodore, Calais VT Series** ,1997    *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

[Holden Commodore](#) ,1987    [MotorBoating](#) ,1933-10    **Transparent Designs** Michael L. Black,2022-03-29 This fascinating cultural history of the personal computer explains how user friendly design allows tech companies to build systems that we cannot understand Modern personal computers are easy to use and their welcoming user friendly interfaces encourage us to see them as designed for our individual benefit Rarely however do these interfaces invite us to consider how our individual uses support the broader political and economic strategies of their designers In Transparent Designs Michael L Black revisits early debates from hobbyist newsletters computing magazines user manuals and advertisements about how personal computers could be seen as usable and useful by the average person Black examines how early personal computers from the Tandy TRS 80 and Commodore PET to the IBM PC and Apple Macintosh were marketed to an American public that was high on the bold promises of the computing revolution but also skeptical about their ability to participate in it Through this careful archival study he shows how many of the foundational principles of usability theory were shaped through disagreements over the languages and business strategies developed in response to this skepticism In short this book asks us to consider the consequences of a computational culture that is based on the assumption that the average person does not need to know anything about the internal operations of the computers we've come to depend on for everything Expanding

our definition of usability Transparent Designs examines how popular and technical rhetoric shapes user expectations about what counts as usable and useful as much as or even more so than hardware and software interfaces Offering a fresh look at the first decade of personal computing Black highlights how the concept of usability has been leveraged historically to smooth over conflicts between the rhetoric of computing and its material experience Readers interested in vintage computing the history of technology digital rhetoric or American culture will be fascinated in this book

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