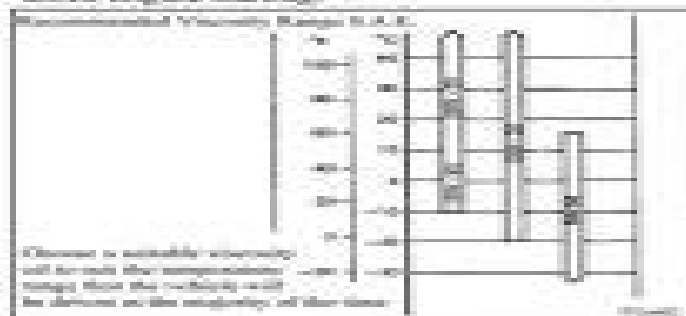


## ENGINE TUNE-UP & MAINTENANCE

### Oil Specification

#### NOTE:

**VA & VA-6 Models V6:** Use classification SG or SH, viscosity grade 5W-30 for general use and high ambient temperatures. If using vehicle for prolonged periods in severe areas use a viscosity grade of 15W-40, this will assist engine starting.



**Gasoline V6:** Use classification SG or SH, viscosity grade 15W-40.

**Note:** Use only four-stroke engines with an oil separator of catalytic converter may result.

#### VA:

Use SG or SH, viscosity grade 5W-30.

**Gasoline V6:** Use classification SG or SH, viscosity grade 5W-30 or 15W-40.

### Oil Pressure

Check oil pressure with engine at operating temperature and oil at correct level on the dipstick.



1. Remove the oil pressure switch/gauge sender unit.
2. Fit the oil pressure gauge adapter and pressure gauge.
3. Start engine and allow to idle, check the pressure gauge reading and take note of pressure.



### Oil Pressure

#### NOTE:

VA & VA-6 Supercharged (l): 1800 rpm	3.75 kPa
See 1 V6 (l): idle - 500 rpm	40 kPa
See 1 V6 (l): 2000 rpm	275-414 kPa
Gasoline V6 (l): 1,000 rpm	50 kPa (Min. 1000)
Gasoline V6 (l): 2,000 rpm	125 kPa (Min. 1000)
Gasoline V6 (l): 4,000 rpm	160 kPa (Min. 1000)

#### VA:

V6 (l): idle	69 kPa
V6 (l): 2000 rpm	125 kPa
Gasoline V6 & Gasoline V6 (l): 2,000 rpm	40 kPa (Min. 1000)
(l): 2,000 rpm	125 kPa (Min. 1000)
(l): 4,000 rpm	160 kPa (Min. 1000)

### COMPRESSION CHECK

Refer to appropriate engine chapter for your specific vehicle for detailed procedures for performing engine compression check.

## OIL FILTER

The oil filter should be replaced at the intervals scheduled service intervals or when the engine oil is contaminated in any way.

**Note:** It is common practice to always replace the oil filter when the oil is changed.

### Replacement Oil Filter - External

VTAC - V6 & All V6 models

1. Uncover the oil filter with a suitable oil filter wrench, then remove and discard the filter.
2. Make sure that the seal is fitted correctly to the neck of the new oil filter.
3. Pour some clean engine oil into the filter, until level is approximately 2 cm below top of filter.
4. Screw the filter into place until the seal contacts mating surface of adapter, then tighten through a further 2/3 of a turn.
5. Clean any excess oil from filter and adapter.

# Holden Commodore Vz Repair Manual Pvc Valve

**Don Pfeil, John Harold Haynes**



## **Holden Commodore Vz Repair Manual Pvc Valve:**

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web oct 13 2016 the naming and construction of side and bottom shell plating is provided in the shell expansion plan next time you get your hands on a shell expansion plan of your ship try to read it to identify shear strake keel strake and garboard strake

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web shell expansion plan this is a ship s plan giving details of shell plating it is a two dimensional drawing of a three dimensional surface of the ship s hull form it is developed from the ship s line plan with the contour lines erected straight on the base line representing the ship s length

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web jul 1 2020 shell expansion plan shell expansion plan july 01 2020 it is a two dimensional drawing of a three dimensional surface of the ship s hull form

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web nov 24 2017 in this video we will show you how to make fast and simple shell expansions from 2d to 3d and back

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web sep 1 2023 shell expansion drawing is obtained from the lines plan of a ship by taking into account the shape of the hull and the volume of the ship the lines plan provides the basic outline of the ship which is then expanded using mathematical formulas to create a 3d model of the ship

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web shell expansion plan two dimensional drawing representing the arrangement of shell plating the plan also shows the numbering of plates and frames and lettering of plate strakes for reference purposes frames are numbered aft to fwd and plates are numbered keel upwards shell expansion plan

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web aug 20 2019 a shell expansion plan should be simple for a barge hull form and from my experience not usually necessary apart from showing plates it can be valuable to see where there might be conflicts such as intersections of welds butts and seams with frames