



VORTECH SEALED SUPERCHARGER OIL REFILL INSTRUCTIONS

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Applications

This manual applies to three different types of Vortech Sealed Supercharger:

CAPA V-3 Sealed

- As fitted to CAPA's Australian Kits (eg Commodore, Falcon).
- The V-3 was sold from 2010 onwards.
- Oil is an Earthy Red Colour.
- Supercharger has a Dipstick at the top of the Supercharger.
- Supercharger has a Black Header Tank attached.

Vortech USA V-3 Sealed

- As fitted to USA Manufactured Supercharger Kits (Vortech, Stillen, VF Engineering, etc).
- Oil is a Transparent Red Colour.
- Features a Dipstick and Breather at the top of the Supercharger.
- Supercharger has an Oil Drain Line attached.
- **NOTE:** V-3 Oil is also suitable for Paxton Novi 1200SL Superchargers.

CAPA V-2 Sealed

- As fitted to CAPA's Australian Kits (eg Commodore, Falcon).
- The V-2 Sealed was sold between 2007 and 2010.
- Oil is an Earthy Red Colour.
- Supercharger does not have a dipstick.
- Has Oil Level Bungs on the Pulley Side of the Supercharger.
- Supercharger has a Black Header Tank attached.

Know your Vortech Supercharger's Oiling Capabilities:

Sealed Unit

<i>Speed</i>	Maximum Impeller Speed – 50,000rpm
<i>Applications</i>	Basic Kits, Tow Cars, Low Boost Kits, Standard Engines, Everyday Driving
<i>Oil Changes</i>	Every 8,000 – 10,000kms

Oil Feed & Drain with Air Assist

<i>Speed</i>	Maximum Impeller Speed – 58,000rpm
<i>Applications</i>	High End Kits, Race Cars, Track Cars, Modified Engines, Hard Driven Street Cars

Maximum Impeller Speed Calculator for Vortech V-2 and V-3 Superchargers.

$$\frac{\text{Crank Pulley Diameter}}{\text{Supercharger Pulley Diameter}} \times 3.6 \times \text{Engine RPM} = \text{Impeller Speed}$$

CAPA V-3 Sealed Supercharger Oil Refill Instructions

Synthetic lubricant for V-3 superchargers. This special oil is required for proper maintenance of the V-3 supercharger. Use of any other oils will void the warranty and may cause component failure.

Please Note – New Superchargers: Oil is already installed in the supercharger unit, Take care not to spill oil during installation.

Fluid Level Checking Procedure

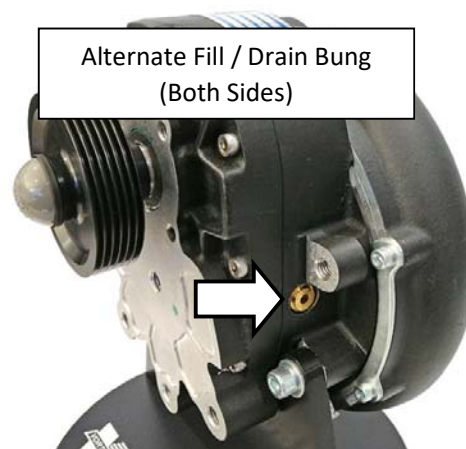
1. Fit Supercharger to Vehicle.
2. Remove dipstick from supercharger (round brass head)
3. Ensure that the .06" copper sealing washer is located on the dipstick base.
4. Thread the clean dipstick into the unit until it seats.
5. Once the dipstick has seated, remove the dipstick from the unit. Oil should register in the crosshatched area on the dipstick.
6. Add oil through the bung on supercharger if extra is needed, leave dipstick out to prevent an air lock inside the unit
7. DO NOT OVERFILL!! Drain excess fluid from the unit if it is above the maximum level on the dipstick.
8. Check level after first 100kms, top up if necessary.



NOTE: Sealed Superchargers uses special oil. Only use oil supplied by CAPA.

NOTE: Check supercharger oil every 6 months.

NOTE: Replace oil every 12 months or every 10,000km, whatever comes first. Change oil more regularly in high boost or hard driving applications.



Vortech USA V-3 Sealed Supercharger Oil Refill Instructions

Synthetic lubricant for V-3 superchargers. This special lubricant is required for proper maintenance of the V-3 supercharger. Use of any other lubricants or oils will void the warranty and may cause component failure.



Fluid Level Checking Procedure

1. Ensure that the .06" copper sealing washer is located on the dipstick base.
2. Thread the clean dipstick into the unit until it seats.
3. Once the dipstick has seated, remove the dipstick from the unit. Fluid should register in the crosshatched area on the dipstick.
4. DO NOT OVERFILL!! Drain excess fluid from the unit if it is above the maximum level on the dipstick.

Fluid Drain Procedure

1. Ensure the Oil Drain Line is Free of Any Kinks or Bends.
2. Oil Line Fitting can be removed using a 9/16 inch and 1/2 inch wrench.
3. Re-fit Oil Line Fitting once oil drain is complete.

Fluid Fill Procedure.

1. Use Pliers to cut the end off the fill spout provided.
2. Remove Dipstick from Supercharger and fill the Supercharger via the Dipstick Hole, lightly squeeze the oil bottle. This procedure takes a few minutes.
3. Once supercharger has been filled with 4oz of oil, check fluid level.
4. Run the vehicle for 20 minutes and re-check the fluid level. Air can enter the drain line and cause a false level read. Re-adjust and check as necessary. DO NOT OVERFILL!

V-3 Maintenance Notes

1. Check the supercharger fluid level using the dipstick at least every 2,500 miles (4,000km)
2. Initial supercharger fluid change must be performed at 2,500 miles (4,000km). The supercharger fluid must then be changed at least every 7,500 miles (12,000km).
3. Drain the fluid, re-fill the unit only with 4 oz (120ml) of Vortech supplied lubricating fluid.
4. Confirm proper oil level using the dipstick. DO NOT OVERFILL!!

CAPA V-2 Sealed Supercharger Oil Refill Instructions

Please Note – New Superchargers: Oil is already installed in the supercharger unit, Take care not to spill oil during installation.

1. Fit supercharger unit to bracket on car per instructions.



BUNG A	BUNG B	BUNG C
VZ V8 VS Ecotec V6 FG 6cyl BA-BF 6cyl Landcruiser 4.7L V8	VE V8 VT2-VY V8 VE V6 VZ V6 VT-VY Ecotec V6 FG V8 BA-BF V8 Crank Drive (4V & 3V) BA-BF V8 Engine Belt Drive AU V8 EB-EL V8 AU 6cyl EF-EL 6cyl	Other _____

2. Please to table above to see which bung is relevant to your application. Disregard other bungs as they are not used.

V-2 Sealed Instructions Continued on Next Page...

V-2 Sealed Instructions Continued...

3. Fit oil reservoir bottle in designated position as shown in manual.
4. Fit oil line to fitting in bottle, taking care not to spill any oil and attach clamp.
5. Remove oil level check bung in supercharger lid and add about 50cc of oil to reservoir bottle, this will fill hose with oil.
6. Leave to stand for 10 mins to let oil drain through the hose and into unit.
7. Check oil level at bung and repeat if necessary, until oil is level with hole.
8. Replace bung in supercharger lid.
9. Fit lid to oil reservoir bottle.
10. Check Oil level at bung every 60 days And Replace every 12 months.

NOTE: Sealed Superchargers uses special oil. Only use oil supplied by CAPA.

NOTE: Check supercharger oil every 6 months.

NOTE: Replace oil every 12 months or every 10,000km, whatever comes first. Change oil more regularly in high boost or hard driving applications.