



You can see the ripples in the once smooth timing cover, caused by cavitation. These continue to create cavitation.



HI-FLOW TD42 WATER PUMP

Installation Guide

Still need some help with
this task?

Visit our website for a full video
tutorial!

www.patrolapart.com.au/tutorials

You can also contact us via phone if
you need but we generally find the
video along with this install guide is
all you will need!

All of our contact details are listed
on the next page.

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In this guide we will show you how to check your impellor-to-timing case clearance while fitting a Hi-Flow water pump. The wrong clearance can cause cavitation which has a large impact on the efficiency of your TD42 cooling system.

You will need

Just some simple tools for this task!

- Small amount of Blu tack
- 12mm socket
- 14mm socket
- Ratchet or Impact Gun



Check your Impellor-to-Timing Case Clearance.

With the old water pump pulled off, as pictured above, clean the mating surface back to bare alloy.

We find in some cases that some pumps are slightly different which can cause cavitation. To allow you to set your clearance gap, we have supplied you with two different thickness gaskets.

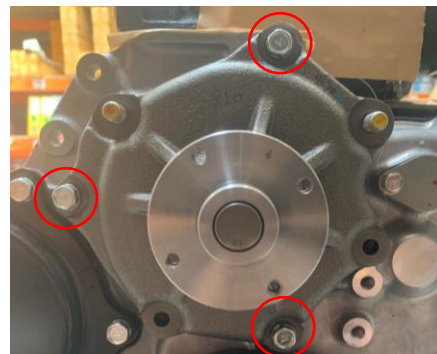
We will run you through a couple of steps to find your ideal gasket combination to use on your specific engine. All of this is to be done dry, with no extra sealant or adhesive to get it correct before final assembly.

Method

1. Apply a small amount of Blu Tack as pictured below to one of the impellor fins.



2. Using both gaskets in tandem, fit the water pump to the timing case, and do up firmly (we suggest using only the three bolts as circled in the picture below for test fitting).



3. Remove the water pump again and inspect the thickness of the Blu Tack left on the impellor fin. We are aiming for an approximate 1mm clearance.
4. If you find it is too thick, remove the thinner gasket and repeat steps 1-3.
5. If you still find the Blu Tack too thick, fit just the thin gasket without the thicker one and repeat steps 1-3.
6. If you still find the Blu Tack too thick, you can fit the pump with no gasket at all and repeat steps 1-3.
7. If you find the Blu Tack splitting apart after doing this step, then you have gone too far and you will need to use the thinner gasket supplied.

Please use the photo below to compare the thickness required of the Blu Tack.

