

## CONGRATULATIONS ON THE PURCHASE OF YOUR DES SOL PRODUCT.

Part Number : DSJDBK – G3/G4  
Part Description : Des Sol Diff Breather Kit GEN4 (2008 - Current)  
Vehicle : Suzuki Jimny 2008 – Current

### WARNING

**NOTE THE FOLLOWING:**

- THIS PRODUCT MUST BE INSTALLED EXACTLY AS PER THE FITTING INSTRUCTIONS BELOW AND ONLY THE HARDWARE SUPPLIED WITH THIS PACK IS TO BE USED
- IN THE EVENT OF DAMAGE TO THE BREATHER KIT, CONTACT YOUR NEAREST DES SOL SUPPLIER – REPAIRS OR MODIFICATIONS MUST NOT BE ATTEMPTED ON THE BREATHER KIT
- THIS PRODUCT AND MOUNTING COMPONENTS MUST NOT BE MODIFIED IN ANY WAY
- DO NOT REMOVE LABELS FROM THIS PRODUCT

Tools required for installation:





- Screw drivers
  - Medium Flat
- Ratchet & Sockets:
  - 10mm socket
- Spanners
  - 15mm spanner
- Stanley knife or scissors (to trim cable ties)

## ITEMS CONTAINED IN THIS KIT

<b>Main Body</b>	<ul style="list-style-type: none"> <li>1 x Breather Bank</li> <li>3 x Quick couplers Ø8</li> <li>1 x Air filter</li> <li>1 x Mounting Bracket</li> <li>2 x M6x35 cap screws</li> <li>2 x M6 Nylock Nuts</li> </ul>
<b>Diff couplings</b>	<ul style="list-style-type: none"> <li>2 x Diff Couplings</li> <li>4 x M3 grub screws SS</li> <li>2 x 2mm O-ring</li> </ul>
<b>Transfer Case (TC) couplings</b>	<ul style="list-style-type: none"> <li>1 x TC Couplings</li> <li>2 x M3 grub screws SS</li> <li>1 x 2mm O-ring</li> </ul>
<b>Miscellaneous</b>	<ul style="list-style-type: none"> <li>1 x Loctite</li> <li>1 x 1.5mm Allen key</li> <li>1 x 5mm Allen key</li> <li>10 x 3mm x 110mm cable ties</li> <li>1 x Blue marked 8mm PU Tube (Front Diff)</li> <li>1 x Red marked 8mm PU tube (Rear Diff)</li> <li>1 x Black 8mm PU Tube (TC)</li> <li>1 x Black 8mm PU Tube (Short – GEN3 Only)</li> </ul>

## FRONT AND REAR DIFF BREATHER FITMENT

### NOTE: CLEAN AROUND ALL BREATHER CAPS BEFORE REMOVAL

	<ol style="list-style-type: none"><li>1. Use the 15mm spanner or a Diff breather removal tool to slide under the stock Diff breather cap and apply downwards pressure to pop the breather cap off</li><li>2. The breather cap is crimped in place as per the second image. You will need to work it off on both crimped sides</li></ol>
	<ol style="list-style-type: none"><li>3. Prepare the Diff breather cap</li><li>4. Insert the O-ring</li><li>5. Insert the quick coupler using the 5mm Allen key</li><li>6. Put a drop of Loctite on the M3 grub screw</li></ol>
	<ol style="list-style-type: none"><li>7. Insert the diff breather coupling with the quick coupler facing the direction of the Brake lines</li><li>8. Place downwards pressure while tightening the M3 grub screw (<b>Do not over tighten these screws or the housing will strip</b>)</li><li>9. Connect the long RED hose to the coupler and run it towards the brake lines</li></ol>
	<ol style="list-style-type: none"><li>10. Run the Hose with the brake line hose allowing a bit more slack than what the Brake line provides</li><li>11. Cable tie at that base of the brake line as well as at the top<ul style="list-style-type: none"><li>• The front will run up by the fire wall ready to plug into the Breather Bank</li><li>• The rear runs all the way though to the Transfer box, following the brake lines.</li></ul></li><li>12. Add another cable tie before the TC</li></ol>

## GEN4 (ONLY) TRANSFER CASE BREATHER FITMENT

**NOTE: CLEAN AROUND ALL BREATHER CAPS BEFORE REMOVAL**



13. Locate the Transfer case breather cap on the upper, rear, left hand side of the case
14. Use the medium screwdriver to work open the two crimped sides of the cap
15. Pop the Transfer case breather cap off



16. Prepare the TC coupling as per steps 3 to 6
  - NOTE: this coupling will have a blanked off hole , as per image, for the GEN4.
  - The GEN3 will have 2 quick couplers, one for the TC and another for the solenoid
17. Face the TC coupling 180° from if final position
18. Apply downwards force on the coupling and nip (lightly tighten) the M3 grub screw you have access to



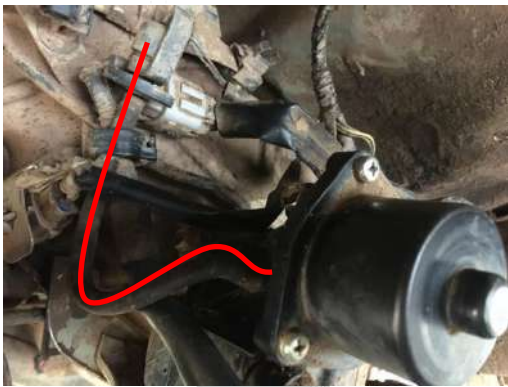
19. Rotate the TC coupling 180° so that is if facing towards the brake lines and rear diff breather line
20. Apply downwards force on the coupling and tightening the M3 grub screw (**Do not over tighten these screws or the housing will strip**)
21. Plug the black unmarked breather line in to the quick coupler and run it over the TC and at an angle towards the front left hand side of the vehicle so that it meets up with the brake line – Make sure it will not rub on the prop shafts
22. Run both the TC and Rear Diff tubes with the brake lines and up just in front of the fire wall – make sure there are no moving components to rub on the lines.

## GEN3 (ONLY) TRANSFER CASE BREATHER FITMENT

**NOTE: CLEAN AROUND ALL BREATHER CAPS BEFORE REMOVAL**



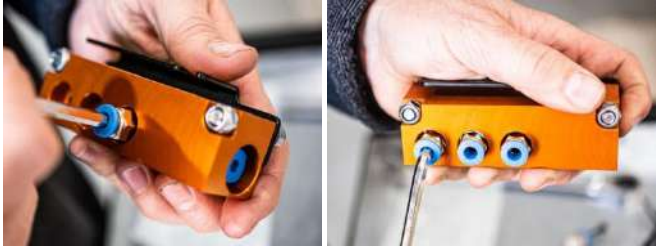
- I. Prepare the TC coupling as per steps 3 to 6
  - NOTE: this coupling will have a blanked off hole , as per image, for the GEN4.
  - The GEN3 will have 2 quick couplers, one for the TC and another for the solenoid
- II. Locate the Transfer case breather cap. This will be on the front upper side of the TC in the middle. It is a tight space.



- III. Follow steps 17 to 22
- IV. Remove the actuator breather pipe as per image – pipe marked in red
- V. Use the short black line to connect from the actuator ( Slide the pipe over the nipple as per original line) and connect to TC connector



## BREATHER BANK CONNENCTION AND PLACE MENT



23. Prepare the Breather bank by fastening the 3 quick couplers into the bank (you will notice that the dust filter has been pre fitted)



24. Connect the hose to the Breather bank

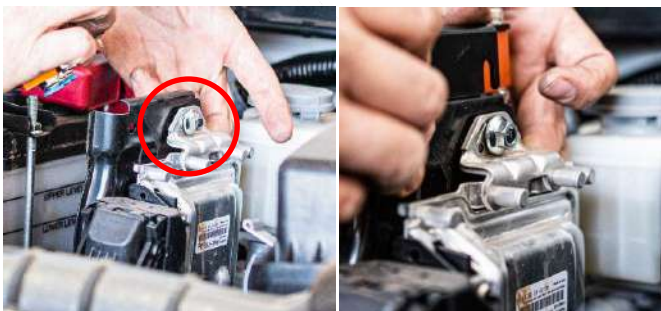
- Diff 1 - RED (Rear Diff)
- Diff 2 - Blue (Front Diff)
- TC - Black (Transfer Case)



### GEN3 BANK FITMENT 25 – 27

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25. Remove the earth cable bolt on the RHS  
26. Slide the slotted end of the Breather Bank mounting bracket over the plastic clip on the LHS  
27. Re-insert the earth cable bolt and tighten up – you will have to apply upwards pressure to line the bolt up as this is a snug fit between the hosing and the harness to prevent rubbing



28. Loosen the ECU Bolt and slide the Breather Bank between the ECU and the mounting bracket  
29. Tighten up the bolt and enjoy water free Diffs

**ENJOY THE PIECE OF MIND THAT YOUR DIFFS NOW HAVE SOME ADDED PROTECTION AGAINST WATER**