



FORD Ranger Rear Housing Installation Guide

Approx Fit Time- 4-6hrs

**Parts required- 2 x Axle Seals Part n.o- AB391177AA or
AB Z1S177A**



Removal of Factory Housing

- 1. Remove wheels**
- 2. Clamp Brake Lines**
- 3. Disconnect Handbrake lines from underbody**
- 4. Disconnect handbrake from brake drums**
- 5. Remove Diff Breather Hose**
- 6. Remove Hydraulic Brake lines/ABS Sensors, and brake line clips**
- 7. Remove diff drain plug and filler plug, and drain oil from pumpkin**
- 8. Remove major brake bracket from top of pumpkin**
- 9. Remove brake line in back of the brake drum**
- 10. Remove 4 nuts from rear of wheel hubs**
- 11. Remove Hub and axle**
- 12. Remove Inner Plastic sleeve (Keep this to reuse in DWIZ housing)**
- 13. Refit Drain plug**
- 14. Remove Diff Lock**
- 15. Remove tailshaft bolts**
- 16. Remove Centre diff bolts (Bolts only at this stage- Leave studs)**
- 17. Support Centre with Jack**
- 18. Remove Centre diff studs nuts**
- 19. Remove Centre (Careful- These are heavy)**
- 20. Support diff housing with jack stand**
- 21. Remove Lower sway bar bracket**
- 22. Remove lower shock bolts**
- 23. Remove UBolts**
- 24. Remove Housing from vehicle**

Installation of Dwiz Diff Housing

1. Remove studs from Factory housing and fit to Dwiz Housing (Use Locite)
2. Lift housing back into vehicle and support with jack stand
3. Refit Ubolts and Dwiz Top Plate with Bump stop
4. Refit sway bar
5. Clean the machined surfaces with Brake cleaner
6. Run RTV sealant around centre and locite the bolts and studs
7. Fit Centre into housing ensuring centre is dead straight on studs
8. Refit Diff breather line
9. Reconnect Diff Lock
10. Refit diff plug
11. Refit major brake bracket on pumpkin
12. Refit Brake bracketry
13. Cut excess length off ubolts
14. Retorque Ubolt
15. Fit inner axle seal (Use a flat surface seal driver, with a properly weighted hammer, ensuring that the seal is driven in evenly until it is home)
16. Refit axles and hubs (Fit brake line in place before tightening bolts)
17. Tighten the 4 wheel hub nuts on the rear
18. Refit brake line in to the back of the wheel drum
19. Refit ABS Sensor
20. Refit handbrake bracketry
21. Fill with approx. 3.4lts of manufacture recommended Diff oil
22. Bleed brakes

Note- ensure you retorque suspension bolts after 100km of driving



DWIZ Diff Housing and Axle Warranty

Dwiz Diff Housings provide a 24 month/50,000km warranty (whichever is lesser) Manufacture Warranty on all Housings and Axles from Date of Purchase.

The product is engineered to meet the stated axle load rating, subject to continued compliance with the vehicles legal Gross Vehicle Mass (GVM). Abnormal use of the vehicle by the consumer or exceeding the legal GVM and/or axle load rating of the vehicle voids the product warranty and is not considered to result in failure to meet consumer guarantee under Australian Consumer Law.

In any case of a failure, the customer must contact Dwiz as soon as possible to notify of issue. If a claim is made under warranty or Australian Consumer Law, Dwiz reserves the right to independently inspect the vehicle including components to determine cause of failure at the time of being notified of the issue. This includes, but is not limited to, weighing the vehicle including all vehicle accessories, obtaining photos of the vehicle and contacting authorising agent of fitment.

If found to be faulty or defective, Dwiz will either Repair or Replace affected component only.

If cause of failure cannot be independently determined due to location of vehicle and services available, Dwiz reserves the right to recover financial loss for any assistance provided if the product is not found to be faulty or defective.

Dwiz accepts no responsibility if the product is altered in any way, components that are not Dwiz parts, or any loss of usage time of vehicle.

Installing of the product is deemed acceptance of this product warranty and conditions.

To make a warranty claim contact:

Dwiz Diff Housings
U4/38 Southern Cross Circuit
Urangan
Hervey Bay
QLD
4655

Email: info@dwizdiffhousings.com.au

Ph: 07 4124 9281

Our goods come with guarantees that cannot be excluded under the Australian Consumer Law. You are entitled to a replacement or refund for a major failure and compensation for any other reasonably foreseeable loss or damage. You are also entitled to have the goods repaired or replaced if the goods fail to be of acceptable quality and the failure does not amount to a major failure.