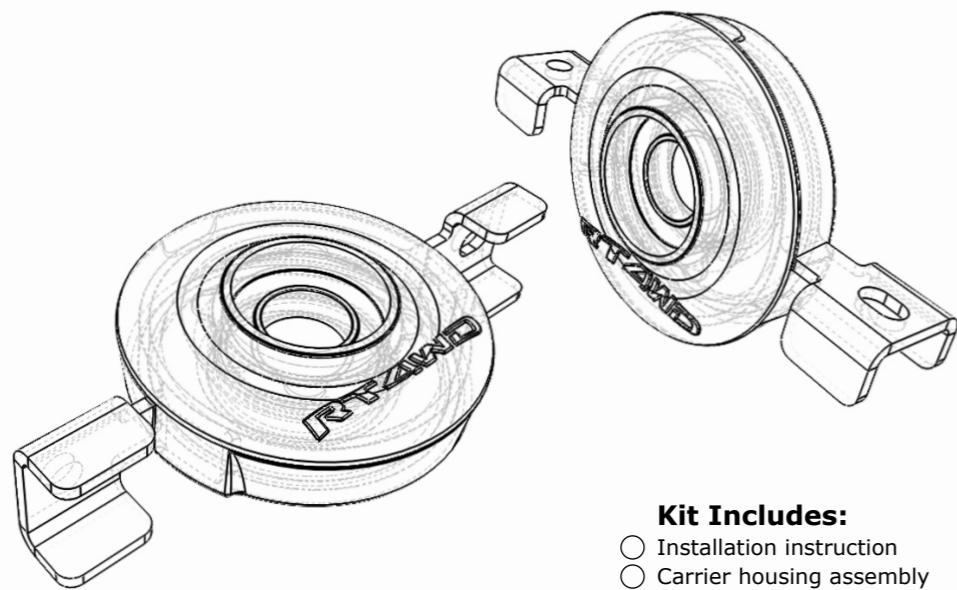


# EFBOSS RT4WD EF/ED Carrier Bearing Replacement Instruction

Rev B 1Nov19



### Kit Includes:

- Installation instruction
- Carrier housing assembly
  - Bearing
  - Circlip
- Carrier housing assembly
  - Bearing
  - Circlip

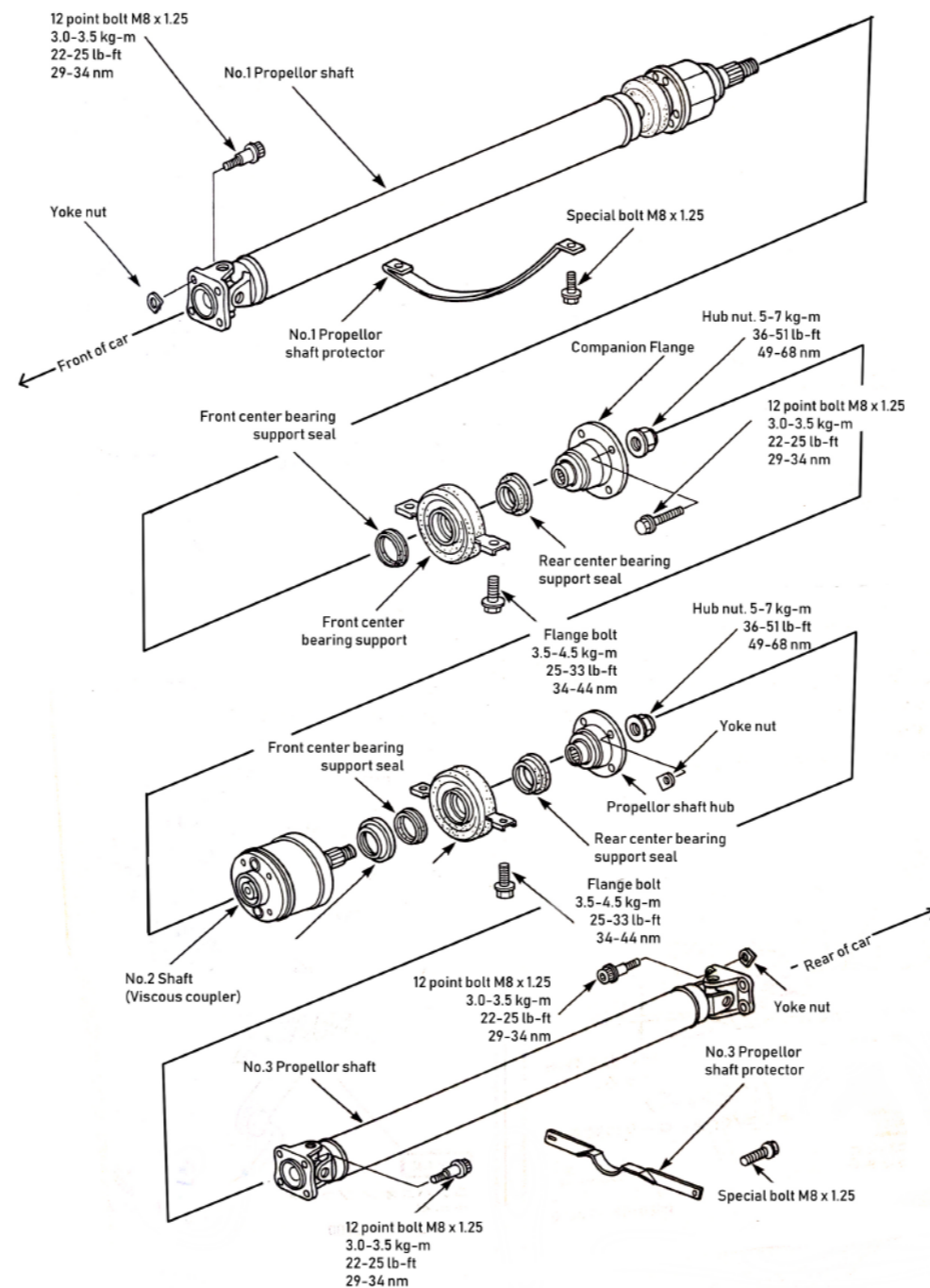
### Notes before starting:

- Make sure the vehicle is secure on jack stands before beginning work.
- Mark each connection point before disassembly and realign at the time of assembly. These are balanced parts from factory and not aligning them correctly may result in vibrations
- You will need to reuse your old carrier bearing housing seals ("Front centre bearing support seal" and "Rear centre bearing support seal" in the component overview). Be careful not to damage these seals when removing the carrier bearing housings.
- Do not spray your new centre bearings with silicone spray, it may liquify the grease inside the bearings and cause it to leak out and prematurely fail.
- Do not hit the stub axles with a metal hammer, it will mushroom the stub and you will not be able to thread the hub nuts back on, potentially ruining your viscous coupler.
- Please read the instructions in their entirety before work begins.

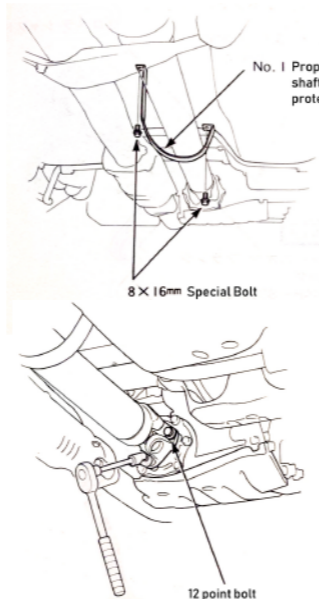
### Items required:

- Jack
- Vehicle stands
- Texter / scribe for marking
- Ratchet
- Universal joint attachment
- Short extension
- Breaker bar
- 10mm 12 point socket
- 12mm socket
- 14mm socket
- 32mm socket
- Punch
- Hammer
- Small flat head screwdriver
- Plastic hammer
- Silicone spray
- Optional: bearing separator
- Optional: OEM special tool 07HAB-SD90100

### Component Overview

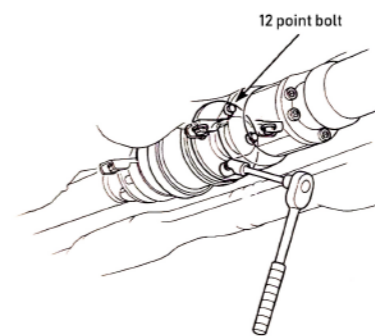


### Procedure:

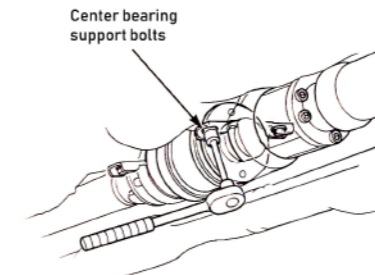


Step 1:  
Remove the #1 prop shaft protector with a 12mm socket

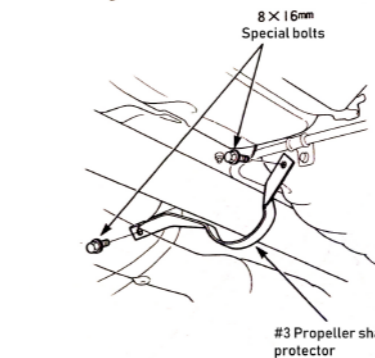
Step 2:  
Remove the 4x12 point bolts with a 10mm 12 point socket. I'd recommend a 3/8"s ratchet with a universal joint attachment so the head of the ratchet clears the body of the propeller shaft. Care to be taken not to round the head. I'd recommend supporting the prop shaft near the U joint with a jack while removing the screws so it doesn't drop unexpectedly



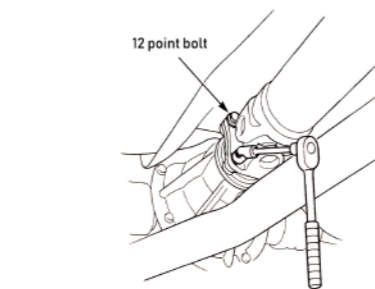
Step 3:  
Remove the 4x12 point bolts with a 10mm 12 point socket.



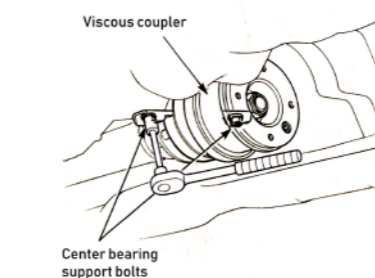
Step 4:  
Remove the 2xM10 bolts that secure the center bearing to the car using a 14mm socket. These are the last 2 bolts securing the #1 prop shaft to the car, so be prepared to gently lower the shaft to the ground.



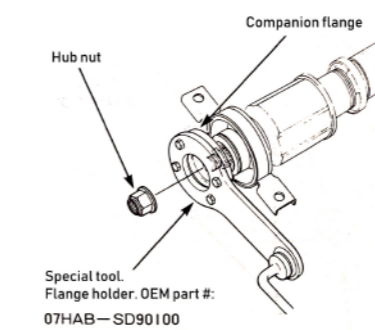
Step 5:  
Remove the #3 prop shaft protector



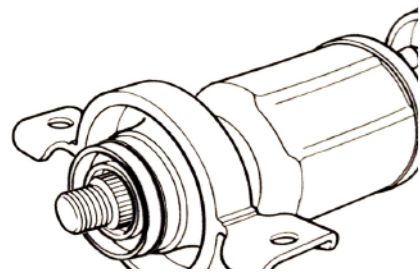
Step 6:  
Remove the 4 x 12 point bolts with a 10mm 12 point socket. Support the prop shaft with a jack near the flange.



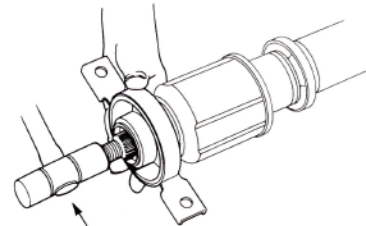
Step 7:  
Remove the 2xM10 bolts that secure the center bearing to the car using a 14mm socket. These are the last 2 bolts securing #2 viscous coupler and #3 prop shaft to the car, so be prepared to gently lower the shafts to the ground. CAUTION the viscous coupler is heavy.



Step 8:  
To remove the center bearing from #1 prop shaft, first mark the position of the spline of the shaft. Secure the companion flange to prevent it from rotating and remove the hub nut using a 32mm socket and a breaker bar, or a rattle gun. Graphic shown with OEM special tool 'Flange holder'. I'd recommend drilling two holes in a piece of flat bar and bolting the companion flange to the flat bar to prevent the shaft from rotating while undoing the hub nut. If you use a vice to clamp the companion flange use soft jaws to prevent damaging the flange

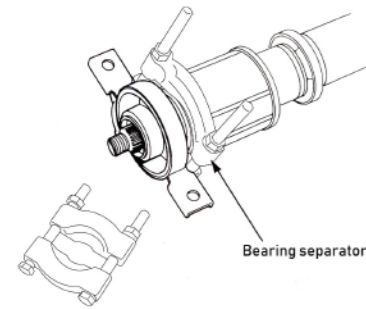


**Step 9:**  
Remove the rear center bearing support seal by using a flat blade screw driver and carefully lever it out. You will be re-using this seal.



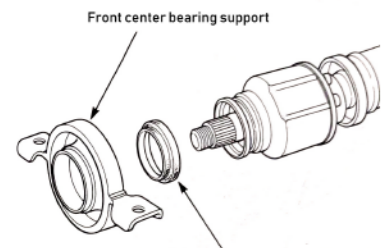
Plastic mallet

**Step 10:**  
With some luck, the old center bearing support can be wiggled off, or by pulling while tapping the center spline of the stub with a plastic hammer. This is not a press fit bearing. Try applying some silicone spray and letting it penetrate before trying again. If this doesn't work move to step 11. If it does, skip to step 12.



Bearing separator

**Step 11:**  
Using a bearing separator, tighten until the center bearing support separates from the stub.

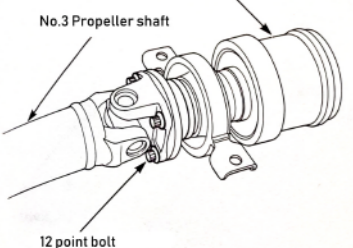


Front center bearing support

Front center bearing support seal

No.2 Shaft (viscous coupler)

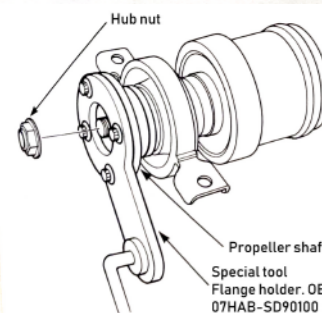
**Step 12:**  
Remove the front center bearing support seal by using a flat blade screw driver and lever it out. You will be re-using this seal.



No.3 Propeller shaft

12 point bolt

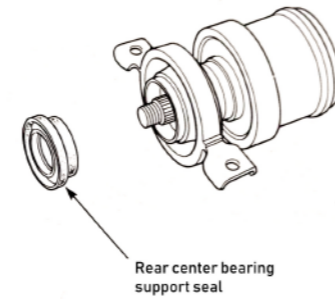
**Step 13:**  
Remove the 4 x 12 point bolts using a 10mm socket securing the No.3 propeller shaft to the viscous coupler assembly



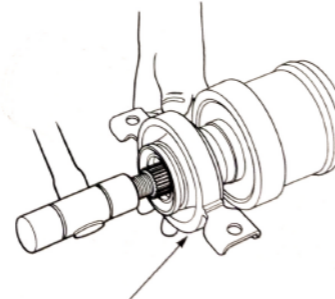
Hub nut

Propeller shaft hub  
Special tool  
Flange holder. OEM part #  
07HAB-SD90100

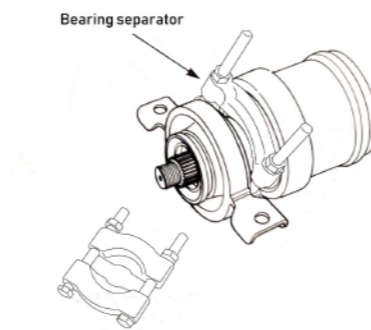
**Step 14:**  
Secure the propeller shaft hub, mark the spline position and remove the hub nut with a 32mm socket



Rear center bearing support seal



Rear center bearing support

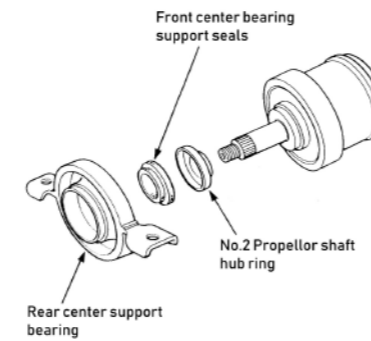


Bearing separator

**Step 15:**  
Remove the rear center bearing support seal by using a flat blade screw driver and carefully lever it out. You will be re-using this seal.

**Step 16:**  
With some more luck, the old center bearing support can be wiggled off, or by pulling while tapping the center spline of the stub with a plastic hammer. This is not a press fit bearing. Try applying some silicone spray and letting it penetrate before trying again. If this doesn't work move to step 17. If it does, skip to step 18.

**Step 17:**  
Using a bearing separator, tighten until the center bearing support separates from the viscous coupler.

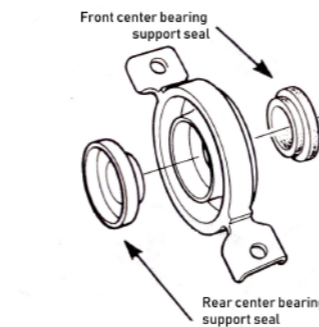


Front center bearing support seals

No.2 Propeller shaft hub ring

Rear center support bearing

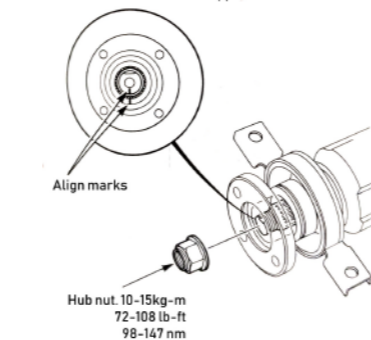
**Step 18:**  
Remove the front center bearing support seal by using a flat blade screw driver and lever it out. You will be re-using this seal. Also ensure the No.2 propeller shaft hub ring remains in place.



Front center bearing support seal

Rear center bearing support seal

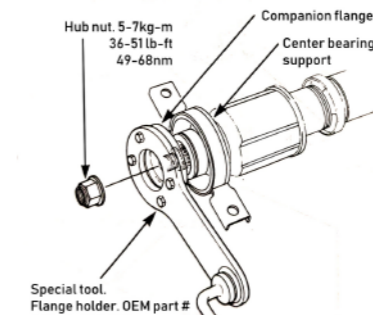
**Step 19:**  
Assemble the front and rear center bearing support seals into your new center bearings.



Align marks

Hub nut. 10-15kg-m  
72-108 lb-ft  
98-147 nm

**Step 20:**  
Align the spline marks you indicated earlier with the marks you put on the companion flange and slide onto propeller shaft No.1. Secure the companion flange and torque the hub nut to 10-15kg-m. This ensures the bearing is seated correctly on the stub.



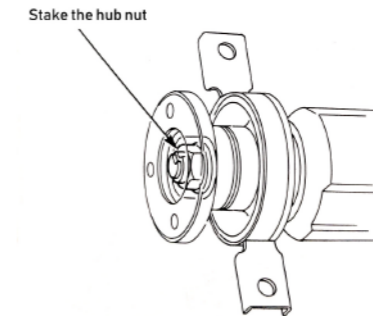
Hub nut. 5-7kg-m  
36-51lb-ft  
49-68nm

Companion flange

Center bearing support

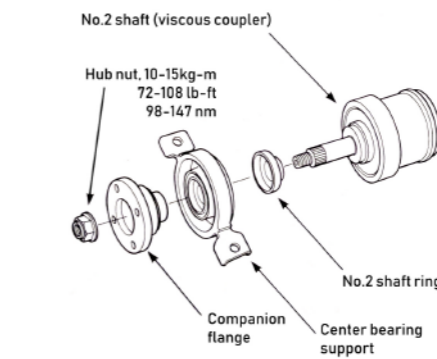
Special tool  
Flange holder. OEM part #

**Step 21:**  
Undo the hub nut and re torque to 5-7kg-m.



Stake the hub nut

**Step 22:**  
Stake the hub nut.



No.2 shaft (viscous coupler)

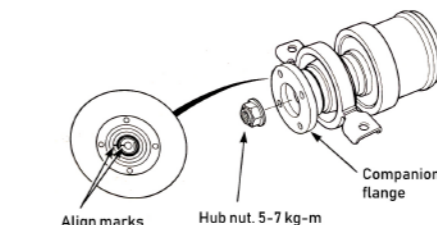
Hub nut. 10-15kg-m  
72-108 lb-ft  
98-147 nm

No.2 shaft ring

Companion flange

Center bearing support

**Step 23:**  
Assemble the second carrier bearing as shown onto the viscous coupler. Confirm that the front and rear center bearing seals have been reinstalled and the No.2 shaft ring is still in place. Torque the hub nut to 10-15kg-m to seat the new bearing.

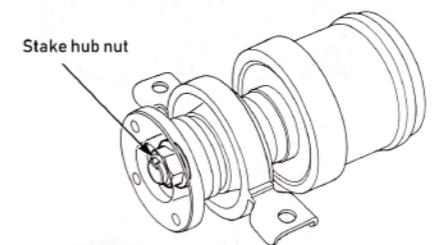


Align marks

Hub nut. 5-7 kg-m

Companion flange

**Step 24:**  
Undo the hub nut, confirm your alignment matches the marks you've put on the propeller shaft hub and the spline and re torque the hub nut to 5-7kg-m.



Stake hub nut

**Step 25:**  
Stake the hub nut.

**Step 26:**  
Begin the reinstallation of the driveline. Install is opposite of removal, follow steps 7 - 1 in reverse order. Check the component overview to confirm the torque values and the orientation of components.

**NOTE:**

For further support or comments please contact [s.spoonerdesign@gmail.com](mailto:s.spoonerdesign@gmail.com). The illustrations and instructions are a combination of the "Honda RT4WD maintenance supplement" and my own edits, translations, component identification and torque values where suitable. This instruction is intended as a guide, and although all care has been taken in the design and fabrication, I will accept no responsibility from any injuries or damage caused during the installation of these parts or as a result of using these parts. Please do not re distribute this information without my explicit permission. Thanks for supporting.