

## Sheet 001      Tornado Trailer Maintenance: Wheel Bearing Maintenance:

### ***Schedule***

This job should be done annually at the end of the season, or when it is suspected that the trailer bearings are becoming worn.

### **Notes**

Wheel bearing life can be considerably shortened by immersing the hubs in the water. Boat towers should be instructed not to immerse the trailer hubs. The Tornado can be quite adequately launched in very little water, however, if the clearance appears to be marginal, then either allow the boat to run off the trailer very slowly, or load the boat with diving equipment after it has been launched.

### ***Parts and Supplies***

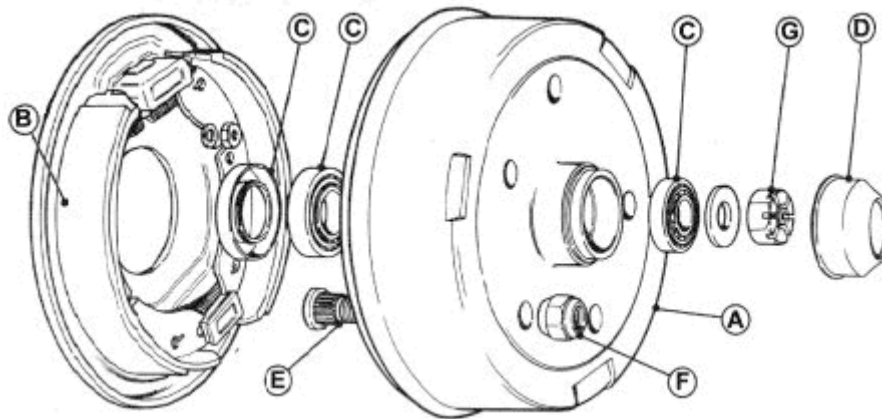
Master Assembly:      “ISBR061” - Indespension Braked Hub – 203mm x 40mm @ £54.99 each  
Bearing Kit:            “ISHU003” - @ £30.79 each  
Brake Shoes:           “ISBR213” - @ £79.79 per set  
Spring Kit:            “ISBR009” - @ £10.49 pack  
Bearing Savers:        “HU008”  
Bearing Saver Cap:    “HU013”  
Castle Nut Split Pin:  
Grease:                “HU007” - “Fuchs Renolit Aqua 2 Grease” @ £7.69  
                              “Copper Grease”

Preferred supplier:    Indespension Ltd, 19 Woodhatch Road, Redhill, RH1 5HQ  
Tel: 01737 768185, Fax: 01737 768610  
<http://www.indespension.co.uk/>

References:            <http://www.autow.co.uk/>  
                              <http://www.snipetrailers.com/>  
                              <http://www.knottuk.com/>  
                              <http://www.avonride.com/>

### ***Tools required***

Wheel brace  
Jack and axle stands/blocks  
Side cutting pliers  
Adjustable spanner  
Long-nosed pliers  
17mm spanner for brakes  
Hammer  
Wire brush  
WD40  
Grease Gun



### Procedure

1. Loosen wheel nuts (F)
2. Put trailer securely on blocks or axle stands
3. Remove wheel nuts (F)
4. Remove wheel
5. Remove Grease Cap (D) and clean [See note A]
6. Remove split pin from Axle Nut (G) and discard
7. Undo Axle Nut (G) and washers, remove and clean
8. Remove outer bearing (C) and clean
9. Remove Brake Drum (A)
10. Remove old grease from hub space
11. Do not remove oil seal or inner bearing unless you are installing a new bearing kit
12. Inspect all parts for wear and tear
13. Clean Brake Drum (A) with wire brush
14. Clean Brake Shoes (B) and springs with wire brush
15. Lightly coat springs with copper grease
16. Remove brake adjuster, clean and regrease with copper grease
17. Replace brake adjuster lightly
18. Pack bearing spaces in Brake Drum (A) with heavy grease
19. Pack outer bearing with grease and replace
20. Replace washers and Axle Nut (G), and tighten to very low torque.
21. Back off Axle Nut (G) until holes for split pin align
22. Replace split pin with new pin.
23. Pack Grease Cap (D) with grease (but not too full) and replace
24. Smear wheel studs (E) with copper grease
25. Replace wheel
26. Replace wheel nuts (F), and moderately tighten
27. Adjust brakes using brake adjuster until they just start to bind, then back off.
28. Remove blocks or axle stands
29. Tighten wheel nuts to recommended torque.

### Notes:

- A. Now replaced by Bearing Savers – these are believed to be push-fit on the hubs
- B. See also

End of Sheet