

Title: Tundra Tyre Kit		
AG-SB-2026-01-C-EN	Effective Date: 01.06.2026	Compliance Category:
Applicability		A – MANDATORY B – RECOMMENDED C – OPTIONAL
Aircraft type & model: MTOsport2017 Cavalon	Affected Serial number(s): See description below	
The maintenance manual to be referenced is this stated or subsequent issue.		As per AutoGyro website
This form is the response from AutoGyro GmbH either against a problem found in the product in service requiring a containment or rectification action, or as service information for aircraft modification incorporation. For help, contact airworthiness@auto-gyro.com.		

Documentation (Service Bulletin Completion action)

The accomplishment of this Service Bulletin, or the decision of its rejection, must be properly documented within the aircraft records, in line with the requirements of the responsible aviation Regulatory Authority.

A worksheet may be attached to this bulletin to aid correct embodiment of this SB. This should be completed and retained with the aircraft records.

Category Codes

- | | |
|-----------------|---|
| A – Mandatory | – failure to comply result in a significant reduction of flight safety, injury or death |
| B – Recommended | – failure to comply may result in reduced safety margin, injury and/or equipment damage |
| C - Optional | – improves operating behavior, reliability and/or maintainability |

Document approval signatures	
Head of Engineering	Head of Airworthiness
The technical content of this document is approved under the authority of the UK CAA Design Organisation Approval Ref: DAI/9917/06	

Reason and overview of the Service Bulletin (cause of problem if known)

AutoGyro has introduced “bigfoot tyres” to the older MT-series gyroplanes a long time ago. Market feedback has requested similar equipment for the MTO2017 and Cavalon models.

Therefore, it was decided to offer a larger tyre set as an option. A new nosewheel fork for each model was developed to accommodate the larger front wheel diameter.

The set consists of wider off-road tyres for the nose wheel and main landing gear, a wider and longer nose wheel fork (different between the Cavalon and MTO2017), and extended main landing gear axles to accommodate the wide rims.

Nose wheel: Tyre size 5.00-5, tyre width 120 mm (instead of 100 mm), 10-ply tyre, mounted on a two-piece 5-inch rim.

Main landing gear: Tyre size 22x8.00-8, tyre width 220 mm (instead of 120 mm), 6-ply tyre, mounted on proven Bigfoot rims.

Suitable for grass, uneven terrain, and unpaved runways.

This package has been tested and shown to meet the UK BCAR Section T certification requirements.

This SB gives instructions how to fit the new – now called – “Tundra tyre” kit. Reverting is possible using the disassembled parts. Make sure new safety relevant items e.g. split pins, self-locking nuts, etc. are used where indicated.

Manpower estimates

Estimated man-hours to complete the task as a stand-alone item are: 2,5hrs

Compliance

This is an optional SB and therefore has no timeline associated.

However, prior to the fitment it must be ensured that the use of the tyres is permitted by the local CAA and for implementation it must be adhered to the procedures and prescriptions of this SB.

It is not permitted to operate the aircraft in a configuration mixing Standard, Bigfoot and Tundra Tyres!

Customer Support

For technical requests, AutoGyro Airworthiness can be contacted airworthiness@auto-gyro.com

For parts requests, AutoGyro Spareparts must be contacted spareparts@auto-gyro.com or via Webshop

Tooling required

Standard tools.

Weight and Balance Effects

The empty weight increases by approximately 8,6kgs while the MTOW remains unaffected. A new weighing must be carried out after fitment to verify the exact weight. The relevant weight placard has to be amended.

The horizontal C/G is not significantly affected by this modification.

Manuals affected

POHs already contain the relevant information

AMMs will be amended

Previous Modifications that affect the SB

Any currently mounted genuine AutoGyro wheel spats will not work with the new tundra tyre kit. New matching wheels spats are planned to be available at a later point.

Accomplishment instructions (Action required to implement this bulletin):

All work is to be carried out in accordance with the latest model-relevant AutoGyro Aircraft Maintenance Manual.

Procedure

1. *If fitted:* Remove wheel spats
2. Jack the aircraft according to JC 07-00-00 2-2 GENERAL: JACKING OF GYROPLANE to lift one main wheel off the ground
3. Remove the main wheel according to JC 32-40-00 4-1 REMOVAL-INSTALLATION: WHEELS
4. Remove brake pad according to JC 32-40-00 8-2 REPLACEMENT: MAIN WHEEL BRAKE PADS from axle
5. Extract old rear axle and replace with the supplied axle with longer shaft
6. Attach brake pad according to JC 32-40-00 8-2 REPLACEMENT: MAIN WHEEL BRAKE PADS to new axle
7. Attach supplied Tundra wheel within the meanings of JC 32-40-00 4-1 REMOVAL-INSTALLATION: WHEELS. **Use new split pin as supplied!**
8. Repeat for the other main wheel
9. Jack the aircraft according to JC 07-00-00 2-2 GENERAL: JACKING OF GYROPLANE to lift the front wheel off the ground
10. Remove the front wheel according to JC 32-40-00 4-1 REMOVAL-INSTALLATION: WHEELS
For Cavalon proceed to 11. / For MTO2017 proceed to 21

11. Disconnect control cables from the front wheel yoke. It is recommended to fixate the cables in the footwell area so the cable tension is upheld. Suitable measures such as clamps or cable ties might be used

12. Remove central screw, washer and front wheel yoke

13. Remove o-ring

14. Slide front wheel fork down out of the body

15. Apply LiquiMoly LM47 or equivalent to shaft of the supplied Tundra front wheel fork

16. Slide rubber damper onto shaft

IMPORTANT: The fork is asymmetrical and has a curvature, defining front and rear. Make sure the position is always clear during re-assembly: The bulge of the curvature faces towards the tail of the aircraft. If in doubt, make a clear marking. See fig.3

17. Slide the Tundra front wheel fork into the fuselage

18. Lubricate o-ring with LiquiMoly LM47, place it on top of the shaft and place the front wheel yoke onto the squared stud. **Make sure the front wheel fork and yoke are aligned correctly.** See figs.1/3 for reference

19. Apply *Loctite* 243 to the screw and tighten with the U11 washer to **40Nm**

20. Re-connect control cables to the front wheel yoke

Following steps for MTO2017; for finishing procedures proceed to 30

21. Disconnect control cables from the front wheel yoke

22. Remove central screw, washers and rubber disc

23. Slide front wheel fork down out of the body

24. Apply LiquiMoly LM47 or equivalent to shaft of the supplied Tundra front wheel fork

25. Slide rubber damper onto shaft

IMPORTANT: The fork is asymmetrical and has a curvature, defining front and rear. Make sure the position is always clear during re-assembly: The bulge of the curvature faces towards the tail of the aircraft. If in doubt, make a clear marking. See fig.4

26. Slide the Tundra front wheel fork into the fuselage

27. Lubricate rubber disc with LiquiMoly LM47, place it on top of the shaft.

28. Apply *Loctite* 243 to the screw and tighten with the U10 washers to **40Nm**. See figs.2/4

29. Re-connect control cables to the front wheel yoke.

Finishing procedures

30. Install Tundra front wheel within the meanings of JC 32-40-00 4-1 REMOVAL-INSTALLATION: WHEELS

Perform following checks, before releasing the aircraft back to service:

31. Check rudder angle according to JC 27-20-00 5-1 CHECK-ADJUSTMENT: RUDDER CONTROL ANGLES

32. Taxiing:

- a. Make sure the brakes work correctly
- b. Make sure the tyres do not contact any structure of the aircraft

Check tyre pressure 1-1,2bar

Pictures

Fig. 1 Cavalon Tundra front wheel assembly

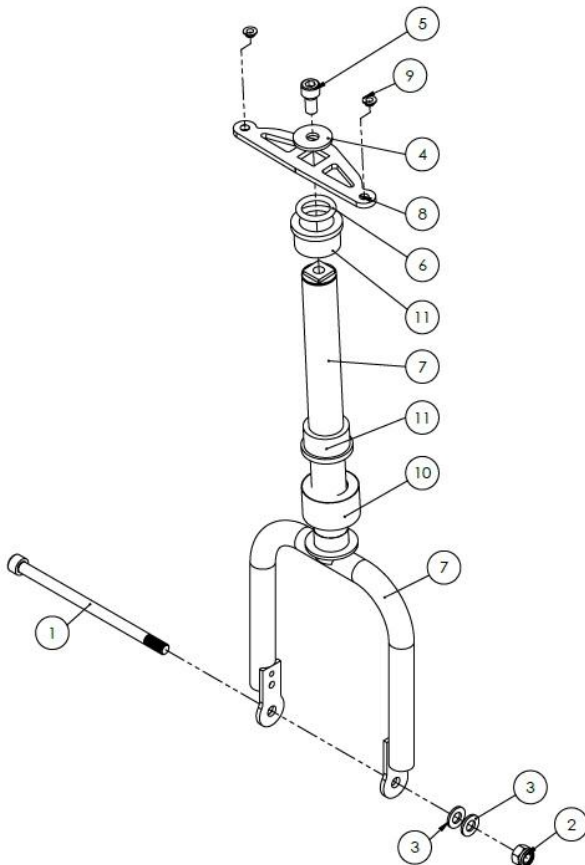


Fig. 2 MTO2017Tundra front wheel assembly

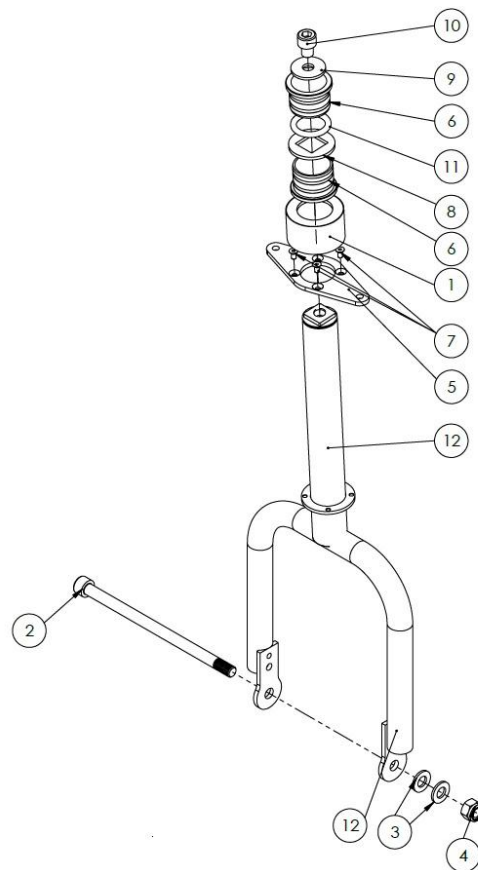


Fig. 3 Cavalon Tundra front wheel fork orientation: Nose of the aircraft faces to the right

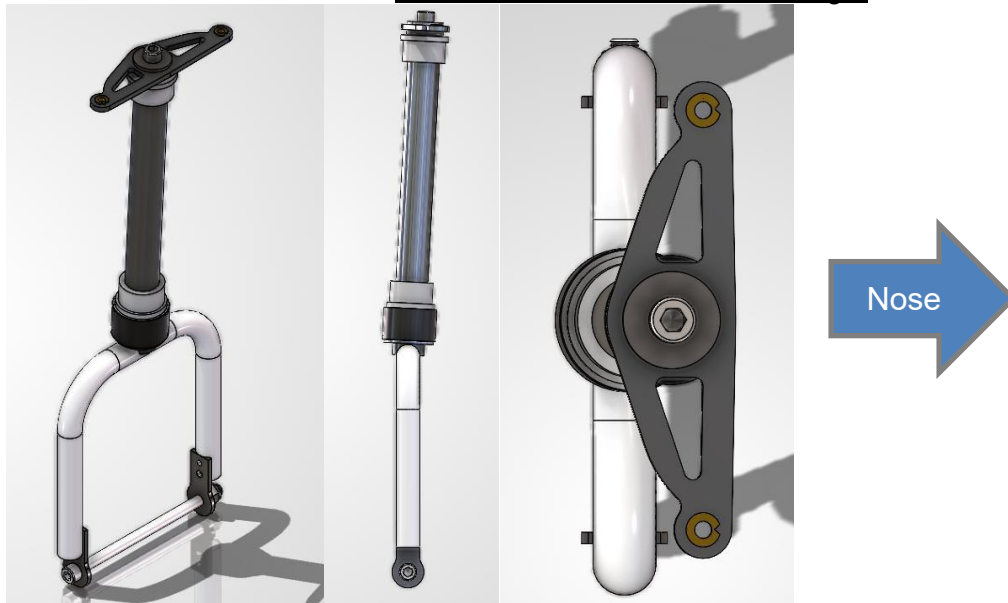
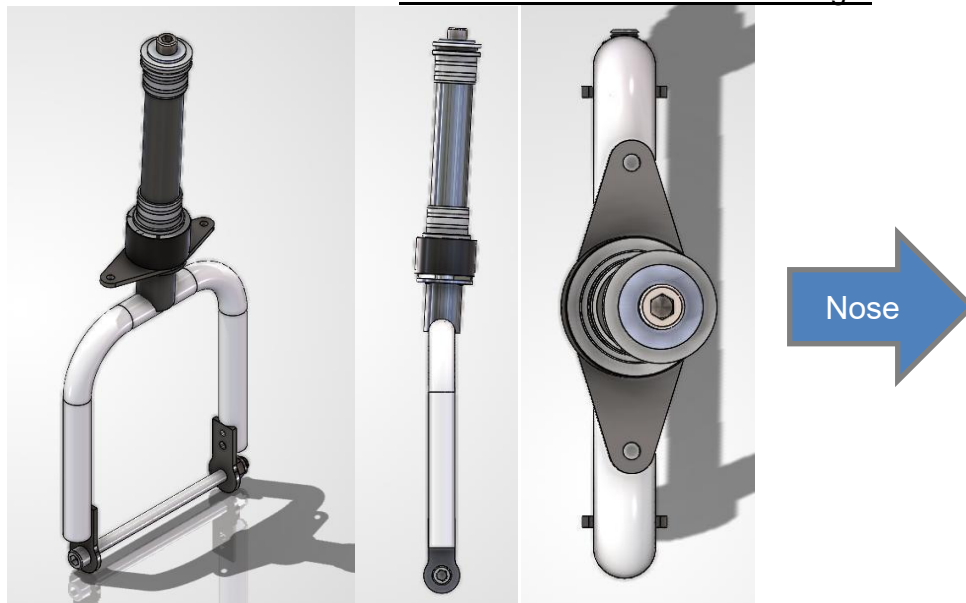


Fig. 4 MTO2017 Tundra front wheel fork orientation: Nose of the aircraft faces to the right



Any life-limit changes must be recorded within the aircraft documentation, in line with the requirements of the country of operation.

Nil

Material information (Parts required to be made to implement this service bulletin):

Nil

List of components (with purchasable part numbers)

50444 – Tundra Tyre Kit, complete (for Cavalon only)
50489 – Tundra Tyre Kit, complete (for MTO2017 only)

Interchangeability

Not affected

Parts disposition

- a. Disposal requirements
 - none
- b. Environmental hazards of parts containing hazardous materials
 - none
- c. Scrap requirements
 - Destroy old parts beyond continued usability and/or mark accordingly
 - Make batch and/or serial numbers unrecognizable
 - Dispose of old parts according to local regulations