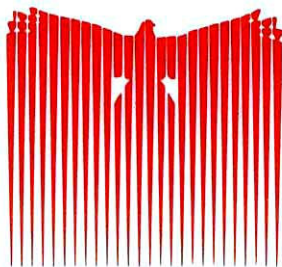


# mainair sports



Mainair Sports Ltd.  
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Date: 12th Jan 1988

JAH/EEW

## BULLETIN NO. 26

<u>Alpha Trike Unit Serial No's</u>	584	590	596	602	608
	585	591	597	603	609
	586	592	598	604	618
	587	593	599	605	
	588	594	600	606	
	589	595	601	607	

### Rear Axles

We have discovered a heat treatment fault which has occurred on a batch of rear axles. This results in microscopic cracking in the area of the ball race and has already led to complete failure.

We have identified the batch and believe only five aircraft may be affected but are unable to pinpoint exactly which ones. Since failure is total and results in the loss of the whole wheel assembly, it is necessary that any suspect aircraft be checked PRIOR TO FURTHER FLIGHT. The aircraft which suffered a failure did so after 50 hours but a replacement lasted only a few hours and led to the identification of the problem.

I am sorry that your machine falls into the suspect batch and can only apologise for the fault. If you are able to return the aircraft to the factory we will carry out a full check for you, but otherwise the procedure is as follows:

- 1) Remove the rear spats and uncrew the nuts removing the wheel and bearings. The ball bearings are loose so take care.
- 2) Thoroughly clean the stub axle and carry out a dye penetrant check on the area shown below:



Suspect axles should be sent to us immediately for free exchange.

- 3) If no faults are revealed the wheel can be re-assembled. To locate the ball bearings in place fresh grease should be used.

PLEASE DO NOT OPERATE YOUR AIRCRAFT BEFORE CARRYING OUT THE ABOVE CHECK.



J.A.Hudson

