

SERVICE BULLETIN

Title: XT Fork Carrier Inspection

Identification	SB-014
Status	Mandatory
Issue	1
Issue Date	January 2013
Applicability	All XT-582 Models All XT-912 Models
Compliance	Prior to next flight and then every 100 hrs as per Maintenance Manual

Issued by: Rick Duncan
Approved by:

Summary of Changes Issue 1: Initial Issue

Introduction

This Service Bulletin has been issued to ensure that normal maintenance checks are undertaken as per the Aircraft Maintenance Manual.

It has been brought to the attention of Airborne that a Fork Carrier XT– Airborne part # 106916 has been found with significant cracking. The cracking is apparent below the weld bead where the mast support adaptor tube is welded to the steering carrier.

Subsequent investigations have found two other aircraft exhibiting minor cracking of the fork carrier in this position. All aircraft that have been identified to date are from high hour commercially operated training aircraft. Commercially operated training aircraft generally experience more landings than recreational machines, which produce more frequent loading of the fork carrier.

This service bulletin introduces a mandatory Fork Carrier inspection for all XT aircraft in addition to existing maintenance checks outlined in the aircraft maintenance schedule.

Applicability

The inspection element of this service bulletin extends to all XT aircraft. Any Fork Carriers with any sign of cracks must be replaced immediately.

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Photograph of cracked component



Figure 1 Cracking shown below weld

Action

The area around the mast brace attachment tubing should be thoroughly cleaned prior to inspection

- Clean and inspect the Fork Carrier for cracking.
- A 10 x magnifying glass should be used to aid this inspection.
- Any cracks however small are reason for replacement of the component.
- Repeat this process each 100 hours as required by the Aircraft Maintenance Manual section 5.20.20
- Any cracked components should be reported to Airborne Windsports to aid service history.
- Conduct an inspection according to the checklist (Chapter 20 – Standard Practices Airframe).
- Complete a service note in the aircraft logbook.

Skills

Where allowable by the applicable national airworthiness authority according to the category of registration, the owner / maintainer can incorporate this service bulletin with care.

Weight and Balance

No change.

Tooling

See the aircraft maintenance manual.

Documentation

Any cracked component should be replaced, dated and noted in the aircraft logbook by the person who performed the maintenance.

Front End Assembly

Item 1 on the following assembly drawing shows the Fork Carrier - Airborne part # 106916

NOTE: IF ENDPLAY EXISTS BETWEEN BEARING AND FORK ADD ONE OR TWO #108963 ON M 10 BOLT TO REMOVE PLAY.

NOTE: BOMS ARE THE SAME FOR BOTH ASMS
PART NO. 108361 - FRNT END SUBASM XT TUNDRA TYPE 3
PART NO. 110050 - FRNT END SUBKIT XT TUNDRA TYPE 3

PHOTO SHOWS STEERING DAMPENER INSTALLED

NOTE: DISK BRAKE RETROFIT DIMENSIONS

ITEM NO.	NAME	DWG	PART NO.	QTY.
1	FORK CARRIER XT INCL BEARINGS GREY	6436	106916	1
2	FRNT FORK SUBASM XT TUNDRA	6969	108108	1
3	STEERING DAMPENER SUBASM XT SERIES	5610	105388	1
4	BUSH STEERING LIMITER (TUNDRA)	6333	105998	1
5	SKT CAP SCREW M 10 X 150 ZINC PLATED	5603	108101	1
6	BOLT AN4-27A	5450	100010	2
7	WASHER AN4	5540	100042	2
8	WASHER SS 304 M10 X21MM	5540	103458	3
9	NUT NYLOC M10 ZINC	5604	100802	1
10	WASHER NYLON M10 STND	5540	100619	2
11	WASHER NYLON 22X11.5	5540	108963	2
12	NUT NYLOC AN4 FULL	5535	100034	2
13	RUST PROTECTANT ARP LIQUID	5637	106790	1
14	CAP ROUND TUBE CLOSURE 57MM	5633	101718	1
15	SIKAFLEX-227 ADHESIVE	5637	108965	1
16	SLEEVE 60D X 10L	7216	104548	1

DETAIL A
SCALE 1 : 2

52 FROM CENTER

46.5 TO BOLT FLAT

DRILL 13/64" THRU (Ø 5.16)

Rev	AMENDMENTS	Date
1	DCR 2347 ADD 108963	08-02-08
2	DCR 2436 - 582 XT KIT	25-02-10
3	DCR 2517 - CHG TO SIKAFLEX	05-12-11

COPIED FROM A4-6970, 11-04-07

LAST ACESSED: Monday, 5 December 2011

ALL DIMENSIONS IN MILLIMETERS UNLESS STATED OTHERWISE

Drawn By	Scale	Date
Simon	1:3.5	11-04-07

FRNT END SUBASM XT TUNDRA TYPE 3

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End of Service Bulletin