Service Bulletin SB.JS-003 22 June 2011

TITLE

Cable Release System

APPLICABILITY

MODEL	SERIAL NUMBERS
JS-1A	002, 003, 005, 009
JS-1B	006, 007, 008, 010, 011, 012, 014, 015, 019, 021 - 024

REASON

During the factory production test for JS1B-020 on the 8th of December 2010 at Potchefstroom Airfield the nose release pulley sleeve (Part # 1A-1.13.40.11) failed which resulted in the cable release handle (Part # 1A-1.13.10) coming loose.

DESCRIPTION

The release system comprises of the nose release hook and an optional belly release hook which are used for aero tow and winch launch operations respectively. Both release hooks are operated by a single handle in the cockpit with a 3/32" cable connecting the system A combination of double swaged fittings and crimped sleeves are used as stops on the system.

Due to this failure, further ultimate load tests were carried out per D.JS-006 Loads Document and CS-22 on the following aircraft at the factory on 9 December 2010: SN013, SN016, SN017, SN020 (SN018 was tested on the 10th of December 2010). All four other aircraft passed the ultimate load test of 53.5 kg applied to the release handle.

Due to only a single failure out of six aircraft a mandatory factory load test has been now been introduced for all new aircraft leaving the factory.

COMPLIANCE

MANDATORY: A once off 53.5kg load test must be completed at a sailplane's next scheduled maintenance.

INSTRUCTIONS

A spring scale or load cell are required for the load test of the cable release system. The ultimate load of 53.5kg must be applied to the release handle for three seconds in the direction of pilot operation as shown in Figure 1 below:

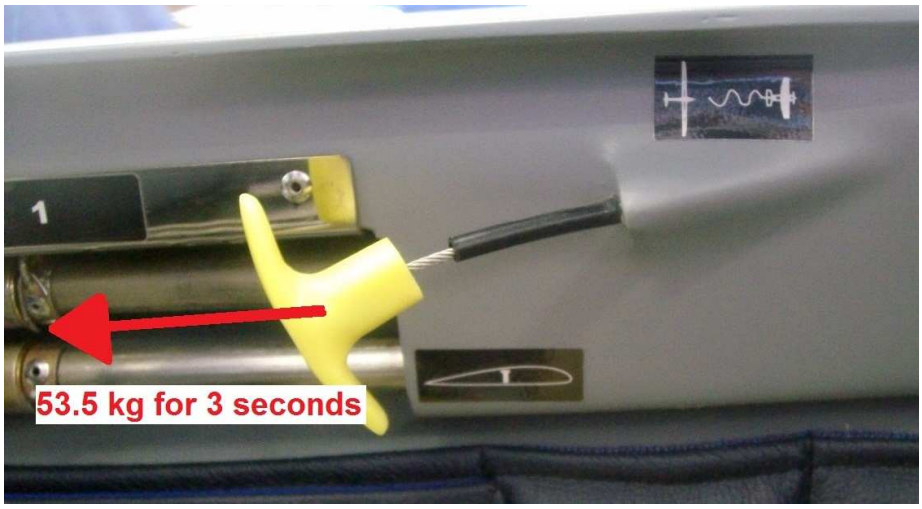

Figure 1 Application of 53.5 kg load on release handle.

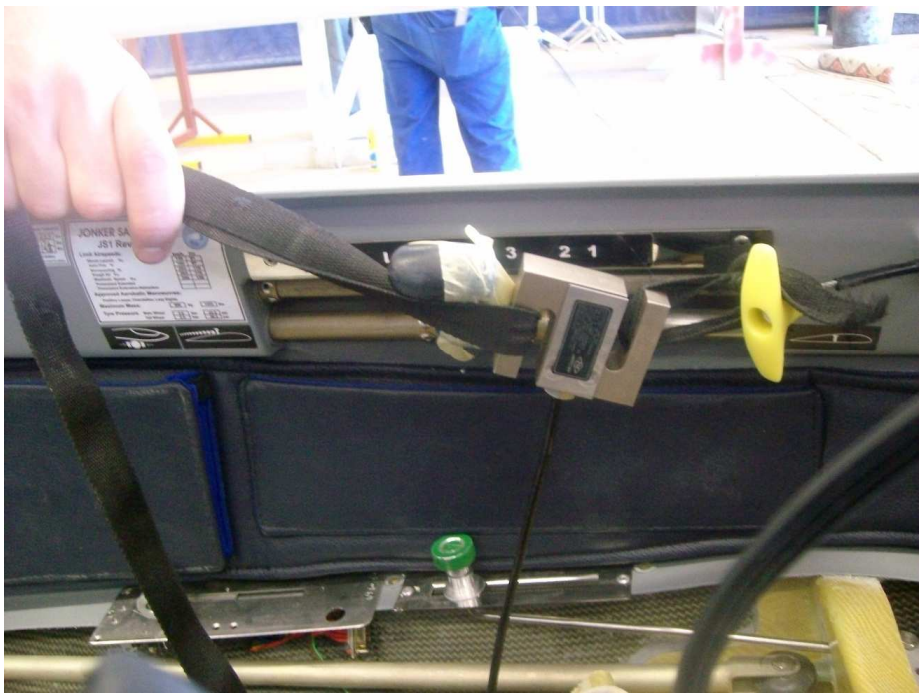

Figure 2 Example of load test setup using a load cell

Failure of any stop in the system will be immediately noticeable and the Factory shall be contacted for the corrective action before the sailplane may be released to service.

MATERIAL

The following drawings show the location of the sleeves and swage fittings used throughout the system

D1A-1.13.20 v1.0 SHT 1 of 1

D1A-1.13.30 v2.0 SHT 1 of 1

D1A-1.13.40 v5.0 SHT 1 of 1

MASS AND BALANCE

Not affected

MANUALS

Not affected

NOTES

Revision 04 of this Service Bulletin only corrected minor typographical errors.