Service Bulletin SB.JS-012

06 July 2012

TITLE

Rudder pedal retention nut replacement

APPLICABILITY

MODEL	SERIAL NUMBERS
JS1B	012 – 037

REASON

The rudder pedal assembly design has been refined.

DESCRIPTION

Replacement of the rudder pedal retention nuts with nyloc nuts.

COMPLIANCE

- MANDATORY. This Service Bulletin must be implemented at the next scheduled maintenance inspection.
- INSPECTION. Until this Service Bulletin SB.JS-012 has been performed, a daily inspection by the pilot is mandatory to check that the rudder pedal retention nuts are secure.

INSTRUCTIONS

See rudder pedal system assembly D1A-1.21 issue 4.0

1. Adjust the rudder pedals to the full back position on the slider beam (D1A-1.21 Item 1) for better access.

2. Remove the dome nuts on both sides of the main pedal axis (D1A-1.21 Item 6).

3. Remove the end caps (D1A-1.21 Item 7) from both sides of the main pedal axis (D1A-1.21 Item 6).

4. Remove and replace the threaded shaft (D1A-1.21 Item 8) with the new supplied threaded shaft (1A-1.21.20.14#v2) as depicted in figure 1.

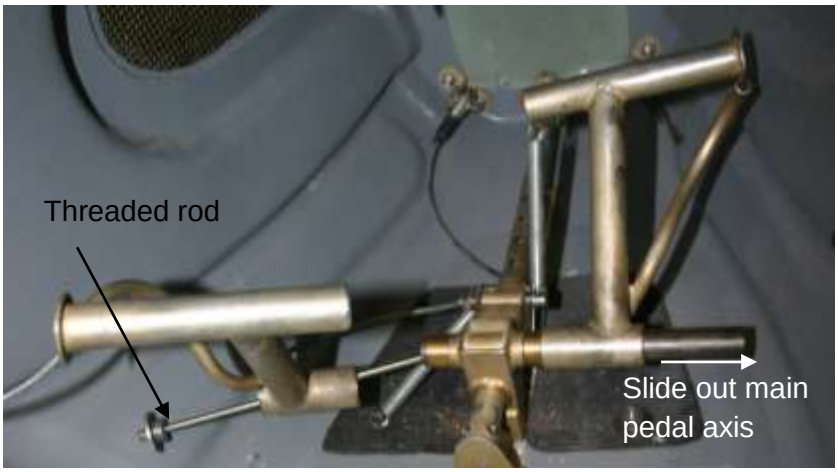


Figure 1: Removal of the Rudder Pedals

5. Apply Loctite to the end caps (D1A-1.21 Item 7) and fasten finger-tight, with the threaded shaft (D1A-1.21 Item 8) protruding equal amounts on each side of the main pedal axis (D1A-1.21 Item 6).

6. Apply Loctite and install the M4 nyloc nuts (D1A-1.21 Item 42) on both ends of the main pedal axis (D1A-1.21 Item 6), ensuring that there is at least 2mm of thread protruding from each end of the M4 nyloc nuts (D1A-1.21 Item 42).

MATERIAL

- 2x M4 nyloc nut (Stock code 4.4.08)
- 1x threaded shaft M4 x 185mm (Part no.1A-1.21.20.14#v2)
- Loctite 243 (not supplied)

SUPPLIED DRAWINGS

D1A-1.21 issue 4.0

MASS AND BALANCE

No effect on mass and balance

NOTES

This Service Bulletin must be performed by an appropriately authorised person.

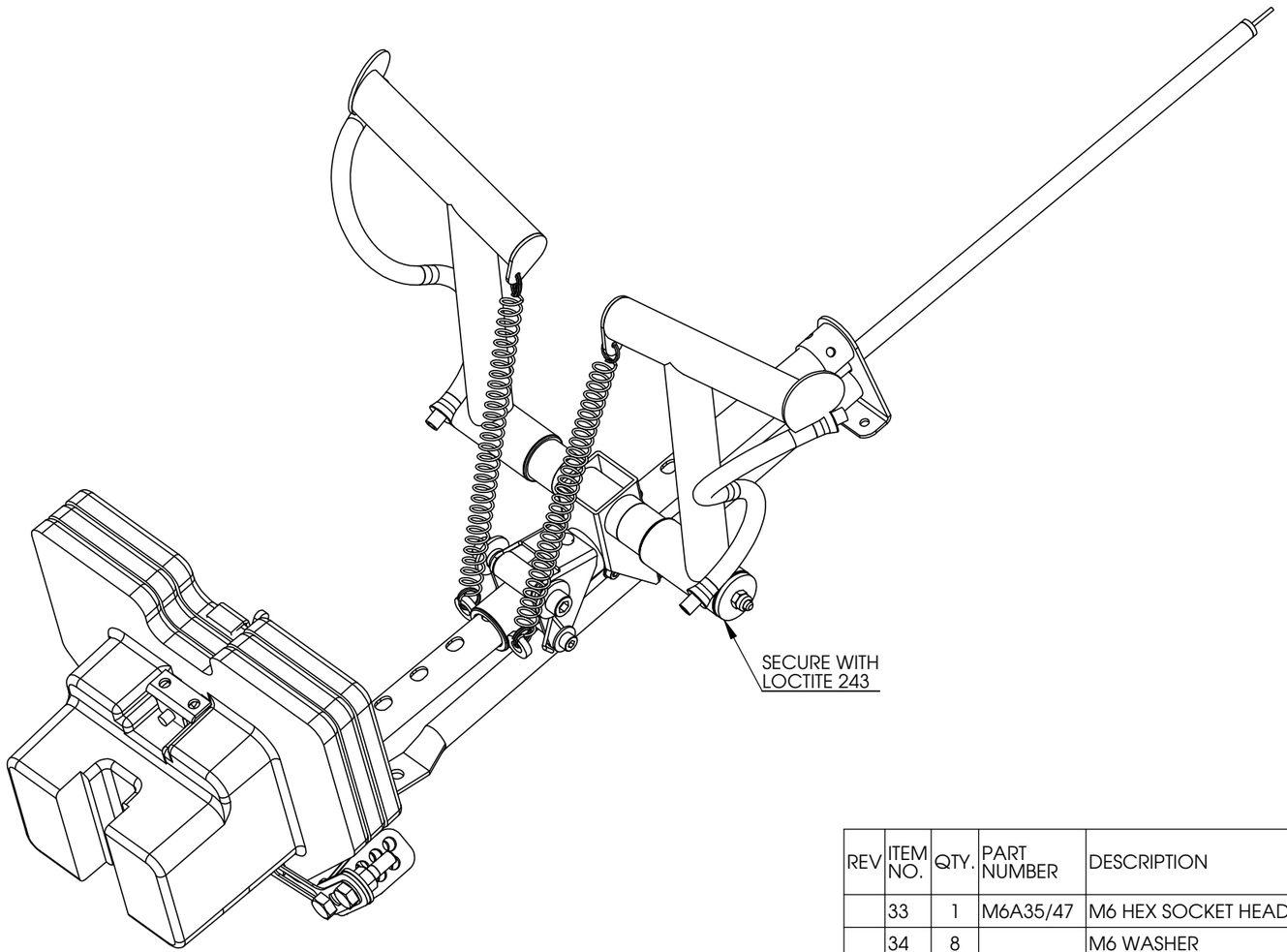
If Technical Note TN.JS-010 has been performed this Service Bulletin is **not** applicable.

Accomplishment of this Service Bulletin must be entered in the aircraft airframe logbook and flight folio.

REVISION TABLE		
REV.	DESCRIPTION	DATE
4.0	NUMBERING SCHEME REVISED TO INDICATE PART VERSION IN PART NUMBER.	2012/06/28

STAMP BLOCK

Only stamped drawings may be used for production



REV	ITEM NO.	QTY.	PART NUMBER	DESCRIPTION	EXT. REF.
4.0	1	1	1A-1.21.10.1w#v2	MAIN TUBE WELD v2	D1A1.21.10
	2	1	1A-1.21.10.2	GUIDE TUBE	D1A-1.21.10
	3	1	1A-1.21.10.3w	SPRING HOUSING	D1A-1.21.10
	4	1	1A-1.21.10.4	FRONT BRACKET	D1A-1.21.10
4.0	5	1	1A-1.21.20w#v4	RUDDER PEDAL LEFT v4	D1A-1.21.20
4.0	6	1	1A-1.21.20.8#v2	MAIN PEDAL AXIS v2	D1A-1.21.20
4.0	7	2	1A-1.21.20.13#v2	END CAP v2	D1A-1.21.20
4.0	8	1	1A-1.21.20.14#v2	THREADED SHAFT v2 M4 X 185 mm	D1A-1.21.20
	9	1	1A-1.21.20.16	RUDDER PEDAL SLEEVE	
	10	2	1A-1.21.20.17	BRASS SPACER	D1A-1.21.20
4.0	11	1	1A-1.21.21w#v4	RUDDER PEDAL RIGHT v4	D1A-1.21.20
	12	2	1A-1.21.23	SPRING: TENSION OD10x105	
4.0	13	1	1A-1.21.30w#v2	SLIDE LOCK MECHANISM v2	D1A-1.21.30
4.0	14	1	1A-1.21.30.4w#v2	LOCKING LEVER v2	D1A-1.21.30
	15	1	1A-1.21.31	ADJUSTMENT LINK	D1A-1.21.31
	16	2	1A-1.21.31.5	SPRING RUDDER LOCK	D1A-1.21.31
	17	3	1A-1.21.31.6	SPRING: TENSION - OD5x50mm	
	18	2	1A-1.21.35	RUDDER CABLE ANCHOR	D1A-1.21.35
	19	2	1A-1.21.35.3	THIMBLE SLEEVE	D1A-1.21.35
	20	1	1A-1.21.36	BOLT RETAINER	D1A-1.21.36
	21	1	1A-1.21.50	ADJUSTMENT CABLE	
	22	1	1A-1.21.52	7KG NOSE BALLAST	D1A-1.21.52
	23	2	1A-1.21.53	2KG NOSE BALLAST	D1A-1.21.52
	24	1	1A-1.21.54	NOSE BALLAST CAPTIVE BRACKET	D1A-1.21.54
	25	1	1A-1.21.55	NOSE BALLAST CAPTIVE BRACKET LOCKING PIN 1	D1A-1.21.55
	26	1	1A-1.21.56	NOSE BALLAST CAPTIVE BRACKET LOCKING PIN 2	D1A-1.21.55
	27	2	1A-1.21.57	NOSE BALLAST LOCKING CLIP	D1A-1.21.57
	28	1	1A-1.21.58	NOSE BALLAST R-PIN	
	29	1	1A-1.21.59	NOSE BALLAST TOP LOCKING PLATE	D1A-1.21.54.1
	30	1	1A-1.21.60	NOSE BALLAST TOP ATTACHMENT BRACKET	D1A-1.21.60
	31	1	1A-1.21.61	NOSE BALLAST TOP LOCKING BOLT	D1A-1.21.61
	32	6	1A-1.27.50	BUSH TYPE 1	D1A-1.27.50

REV	ITEM NO.	QTY.	PART NUMBER	DESCRIPTION
	33	1	M6A35/47	M6 HEX SOCKET HEAD BOLT
	34	8		M6 WASHER
	35	7		M6 HEX NUT
	36	1	M4A30/40	M4 HEX SOCKET HEAD BOLT
	37	2		M4 WASHER
	38	1		M4 HEX NUT
	39	1	M3F10/14	M3 HEX SOCKET CAP SCREW
	40	2		M3 WASHER
	41	1		M3 HEX NUT
	42	2		M4 NYLOC NUT

- FASTENING AND LOCKING ACCORDING TO S.JS-026

CAD FILE

FILE NAME
D1A-1.21

DIRECTORY
D:\JS1\DETAIL DESIGN\Fuselage\CAD\Fuse Control systems\Rudder pedals\

OWNER: JS

TOLERANCES

UNLESS OTHERWISE SPECIFIED:

X. ± 0.5
X.X ± 0.1
X.XX ± 0.05
ANGLES ± 0.1°

METRIC

DIMENSIONS IN MM
ANGLES IN DEGREES

THIRD ANGLE PROJECTION

DRAWN BY	GG	2012/06/28
CHECKED ENGINEER		
CHECKED PRODUCTION		
OVERALL APPROVED		

POTCHEFSTROOM
SOUTH AFRICA

Jonker Sailplanes

TITLE
RUDDER PEDAL SYSTEM ASSEMBLY v2

PART NO.

DRAWING NO.
D1A-1.21

SCALE NTS

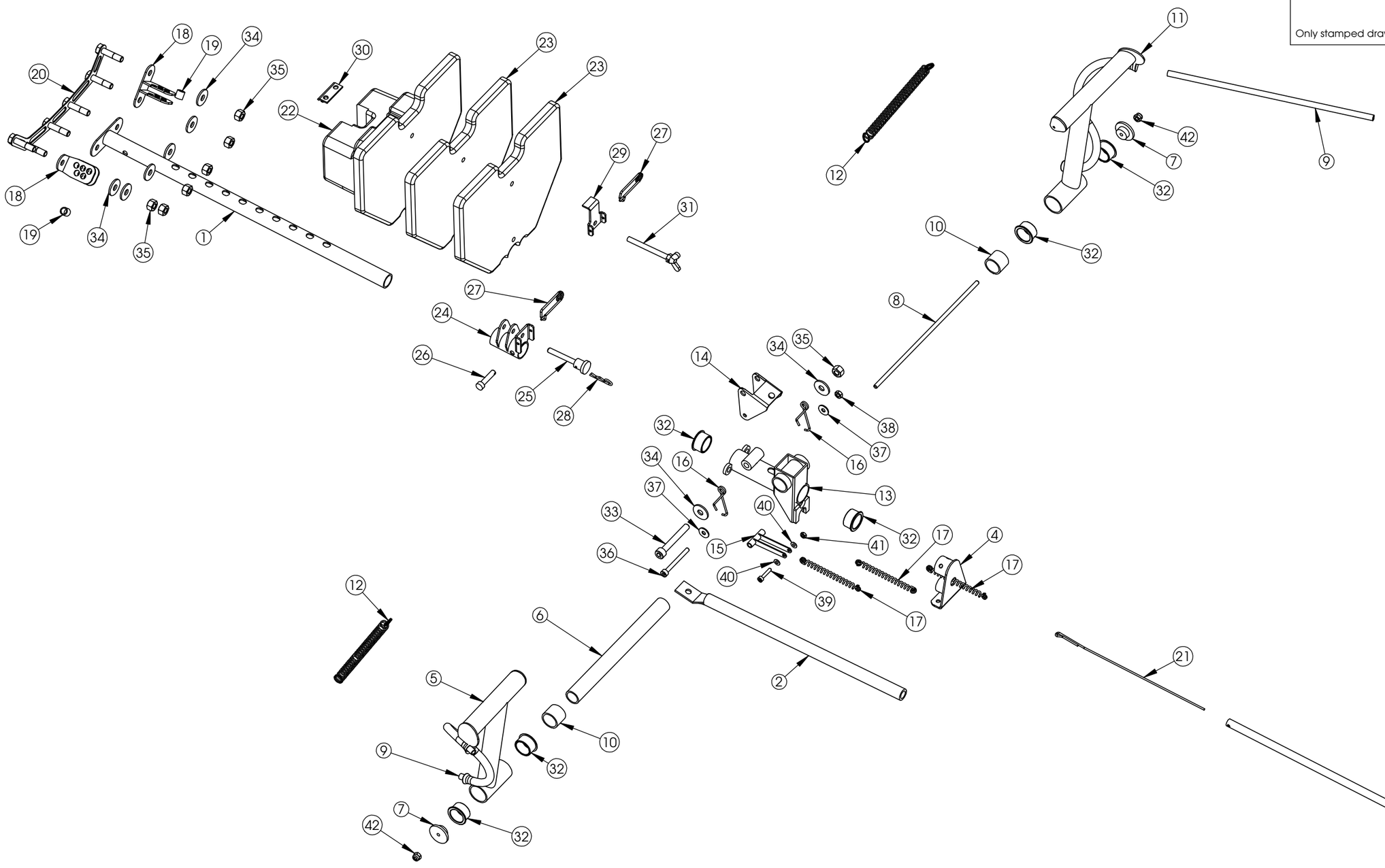
SIZE A3 | ISSUE 4.0

SHEET 1
OF 3

print line thickness
0.5 mm = pen #1 default
0.25 mm = pen #2
dot = rest

STAMP BLOCK

Only stamped drawings may be used for production

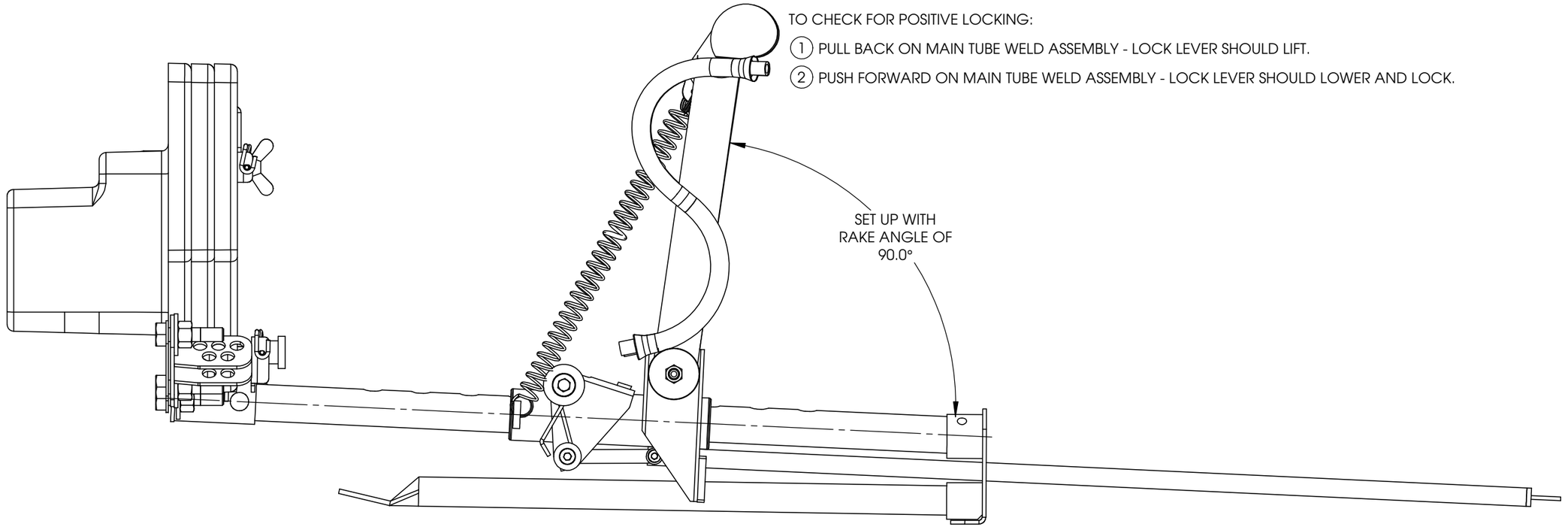


CAD FILE FILE NAME D1A-1.21 DIRECTORY D:\JS1\DETAIL DESIGN\Fuselage\CAD\Fuse Control systems\Rudder pedals\ OWNER: JS	COPYRIGHT RESERVED INFORMATION ON THIS DRAWING IS THE EXCLUSIVE PROPERTY OF JONKER SAILPLANES AND MAY ONLY BE USED AS AUTHORISED.	TOLERANCES UNLESS OTHERWISE SPECIFIED: X. ± 0.5 X.X ± 0.1 X.XX ± 0.05 ANGLES ± 0.1°	METRIC DIMENSIONS IN MM ANGLES IN DEGREES THIRD ANGLE PROJECTION	DRAWN BY	GG	2012/06/28	POTCHEFSTROOM SOUTH AFRICA	Jonker Sailplanes TITLE RUDDER PEDAL SYSTEM ASSEMBLY v2 PART NO. DRAWING NO. D1A-1.21	SCALE NTS SIZE A3 ISSUE 4.0 SHEET 2 OF 3
				CHECKED ENGINEER					
				CHECKED PRODUCTION					
				OVERALL APPROVED					

print line thickness
0.5 mm = pen #1 default
0.25 mm = pen #2
dot = rest

STAMP BLOCK

Only stamped drawings may be used for production



CAD FILE	COPYRIGHT RESERVED	TOLERANCES	METRIC	DRAWN BY	GG	2012/06/28	Jonker Sailplanes	SCALE NTS
FILE NAME D1A-1.21	INFORMATION ON THIS DRAWING IS THE EXCLUSIVE PROPERTY OF JONKER SAILPLANES AND MAY ONLY BE USED AS AUTHORISED.	UNLESS OTHERWISE SPECIFIED: X. ±0.5, X.X ±0.1, X.XX ±0.05, ANGLES ±0.1°	DIMENSIONS IN MM ANGLES IN DEGREES	CHECKED ENGINEER			TITLE RUDDER PEDAL SYSTEM ASSEMBLY v2	SIZE A3 / ISSUE 4.0
DIRECTORY D:\JS1\DETAIL DESIGN\Fuselage\CAD\Fuse Control systems\Rudder pedals\			THIRD ANGLE PROJECTION	CHECKED PRODUCTION			PART NO.	DRAWING NO. D1A-1.21
OWNER: JS				OVERALL APPROVED			POTCHEFSTROOM SOUTH AFRICA	SHEET 3 OF 3

print line thickness
0,5 mm = pen #1 default
0,25 mm = pen #2
dot = rest