

# Kerbal Space Program - Bug #5172

## Invert Control Surface

06/24/2015 04:43 PM - Clowen00

<b>Status:</b>	Closed	<b>Start date:</b>	06/24/2015
<b>Severity:</b>	Low	<b>% Done:</b>	100%
<b>Assignee:</b>			
<b>Category:</b>	Controls and UI		
<b>Target version:</b>			
<b>Version:</b>	1.0.2	<b>Language:</b>	English (US)
<b>Platform:</b>	Any	<b>Mod Related:</b>	No
<b>Expansion:</b>			

### Description

Like shown in the screenshot I constructed a plane which has its control surfaces behind the center of mass. When I want to lift off, then I normally press [S]. But when I press [S] with this plane, the control surfaces turns down. So I have to press [W] to steer up. But that's not the biggest problem, the biggest problem is, that the SAS works in the wrong direction! Perhaps it's because the main wing is attached in front of the center of mass?

PS: Actually it's the new 1.0.3 version.

### History

#### #1 - 06/26/2015 02:31 PM - Kasuha

- File *CoL\_invesion.craft* added
- File *screenshot0.png* added
- File *screenshot1.png* added
- File *screenshot2.png* added
- File *screenshot3.png* added
- Status changed from *New* to *Confirmed*
- % Done changed from *0* to *10*

I can confirm the behavior. Culprit are the Elevon 3/Big-S Elevon 1/Big-S Elevon 2 combo mounted on the trailing edge of FAT-455 Aeroplane Wing. Together they turn the Center of Lift indicator upside down and that leads to the game applying control surfaces action inversely.

KSP 1.0.4 is needed to load both craft files.

Behavior can be reproduced even on pair of non-east/west mounting edges and single pair of elevons rotated in 5 degree increments.

#### #2 - 11/19/2015 08:26 PM - sal\_vager

- Severity changed from *Normal* to *Low*

This issue occurs because the X axis of the control surface is the wrong side of the CoM, this is how KSP knows which way to move the part, it has nothing to do with wing placement.

Workaround is to ensure the x axis of the control surface is correct relative to the vessel CoM.

#### #3 - 07/17/2016 09:40 AM - TriggerAu

- Status changed from *Confirmed* to *Needs Clarification*
- % Done changed from *10* to *0*

#### #4 - 08/10/2016 08:15 AM - TriggerAu

- Status changed from *Needs Clarification* to *Closed*
- % Done changed from *0* to *100*

Closing this report out for now. If you find it is still occurring in the latest version of KSP please open a new report (and this one can be linked to it.) For best results, the wiki contains really useful info for when creating a report <http://bugs.kerbalspaceprogram.com/projects/ksp/wiki>.

You can also ask questions about the bug cleanup in the forum here:

<http://forum.kerbalspaceprogram.com/index.php?/topic/143980-time-to-clean-up-the-bug-tracker/> and tag @TriggerAu to get my attention

## Files

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Control Surface.png	3.45 MB	06/24/2015	Clowen00
Airtram 001.craft	141 KB	06/24/2015	Clowen00
CoL invesion.craft	21.6 KB	06/26/2015	Kasuha
screenshot0.png	1.03 MB	06/26/2015	Kasuha
screenshot1.png	1.03 MB	06/26/2015	Kasuha
screenshot2.png	1.05 MB	06/26/2015	Kasuha
screenshot3.png	1.04 MB	06/26/2015	Kasuha