

Kerbal Space Program - Bug #9720

Fairing detaches before launch

05/12/2016 08:30 PM - chrowbech

Status:	Updated	Start date:	05/12/2016
Severity:	Normal	% Done:	10%
Assignee:			
Category:	Parts		
Target version:			
Version:	1.1.2	Language:	English (US)
Platform:	Windows	Mod Related:	No
Expansion:			

Description

When ship is put into launchpad, there is a brief jiggle. During this, from time to time the fairing snaps off, falling to the ground.

History

#1 - 05/12/2016 09:35 PM - smjjames

Could you upload the craft file?

#2 - 05/13/2016 07:29 PM - chrowbech

- File *Minmus Science Hopper.craft* added

Sure thing. I wonder if it is the three different command modules (pod, rover and HECS) that mess with each other... It seems to happen just after the ship is placed on the launch pad - there is a strange jiggle, where the navball spins very quickly for about 1 second, and then the part (fairing) becomes disconnected to the Rockomax tank. Weird.

#3 - 05/13/2016 09:26 PM - smjjames

- Status changed from *New* to *Confirmed*

- % Done changed from *0* to *10*

It doesn't always knock the fairing off for me, sometimes it just makes the docking ports between the rover and the ladder craft fail. I've gotten it to reproduce a little more reliably with the launch clamps removed. There's no exceptions or errors that I'm seeing either.

Going to try and narrow down what is causing it to jolt. There [i]may[/i] be a docking port bug involved here, not sure yet.

#4 - 05/13/2016 09:44 PM - smjjames

- File *KSP.log* added

- File *output_log.txt* added

I've gotten it narrowed down to some interaction between the landing legs and the fairing. When I (awkwardly) rotate them to point down, it doesn't happen.

#5 - 07/17/2016 09:56 AM - TriggerAu

- Status changed from *Confirmed* to *Needs Clarification*

- % Done changed from *10* to *0*

#6 - 08/09/2016 03:06 AM - Perry_Apsis

- File *KSP.log.zip* added

- Status changed from *Needs Clarification* to *Updated*

- % Done changed from *0* to *10*

In clean Win x64 1.1.3 there is a sudden sideways jerk when the craft is loaded on the pad. It's actually the camera that jumps. It happens while the camera is still panning down to the center of mass. If you look at the staging, you'll notice that the top (everything from the fairing base up) is now detached from the rest of the ship. Found this in the log:

```

[LOG 22:57:54.364] Flight State Captured
[LOG 22:57:54.364] Saving Achievements Tree...
[LOG 22:57:54.365] Saving Achievements Tree...
[LOG 22:57:54.366] [MessageSystem] Save Messages
[LOG 22:57:54.428] Game State Saved as persistent
[LOG 22:57:55.410] Unpacking Minmus Science Hopper
[LOG 22:57:57.876] [F: 15393]: fuelTank3-2 collided into fairingSize2 - relative velocity: 8.12462 - impact momentum: 17.6
[LOG 22:57:57.878] fuelTank3-2 Exploded!! - blast awesomeness: 0.5
[LOG 22:57:57.880] [RCSBlock]: Deactivated

```

F3 shows no flight events until the popped top (which sometimes jumps quite violently and sometimes sits quite still) crashes into some other part of the ship.

#7 - 08/09/2016 03:46 AM - Perry_Apsis

Okay, found the problem. When the craft loads, the wheels jerk downward, striking the inside of the fairing. Redrawing the fairing so there is more room under the wheels eliminates the problem. You can recreate it by drawing the fairing up tight under the wheels and then flaring out suddenly so that the fairing surface is directly under the wheels.

I don't know if the sudden extension of the wheels on vehicle load is already listed as a bug. If not, it probably should be. In addition, there should probably be something in the flight log when the wheels strike the fairing hard enough to snap the fairing base off the fuel tank, or at least when the fairing base gets snapped off.

Files

Fairingfailure.png	1.19 MB	05/12/2016	chrowbech
Minmus Science Hopper.craft	380 KB	05/13/2016	chrowbech
KSP.log	515 KB	05/13/2016	smjjames
output_log.txt	1.19 MB	05/13/2016	smjjames
KSP.log.zip	32.7 KB	08/09/2016	Perry_Apsis