**annex** AGREE {\*\*

**eq** nominal\_Select\_Alternate **:** **bool;**

**eq** pedals\_pressed**:** **bool** **=** **(**pedal1**.**val **>** 0.0**)** **and** **(**pedal2**.**val **>** 0.0**);**

**eq** skid\_active**:** **bool** **=** **(**cmd\_nor**.**activate\_antiskid**)** **or** **(**cmd\_alt**.**activate\_antiskid**);**

**eq** commanded\_pressure**:** **bool** **=** **(**cmd\_nor**.**val **>** 0.0**)** **or** **(**cmd\_alt**.**val **>** 0.0**);**

**guarantee** "If pedals pressed, no skid, and wheel pressure is nonexistant, then

select alternate should be true" **:**

**(**nominal\_Select\_Alternate **=**

faults**.**historically**(false** **->** **not** **(pre(**pedals\_pressed **and** **not(**skid\_active**))** **=>**

wheel\_pressure**.**val **>** 0.0**)));**

**guarantee** "Pedals pressed and no skid and normal implies pressure commanded" **:**

pedals\_pressed **and** **(not** skid\_active**)** **=>** commanded\_pressure**;**

**guarantee** "Alternate pressure and normal pressure don't occur simultaneously." **:**

**not(**cmd\_alt**.**val **>** 0.0 **and** cmd\_nor**.**val **>** 0.0**);**

\*\*};