

```
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 nonexistent, 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);
```

```
**};
```