

**SetPoint command**

Requirement ID	Req. Rev	Covered Requirement	Requirement Title	
[SRS_CSA_1201]	01		CAN Recall Requests acquisition	
Skill(s)	Mandatory Verification	Allocation / Variant	Iteration	Safety
SW	YES	Ultimate / Premium	Proto-A	ASIL-QM(QM)
The System shall acquire states of the following inputs called "CAN Recall Requests": <ul style="list-style-type: none"> <li>- ForeAft Recall Order</li> <li>- Recline Recall Order</li> <li>- Tilt Recall Order</li> <li>- CommandArm ForeAft Recall Order</li> <li>- CommandArm Height Recall Order</li> </ul> <p>The state of these signals is considered if received 3 consecutive times in less than 200ms.</p>				
Verification	Method & Skill	TESTSYS	Criteria	

**Commenté [WB7]:** The signal for recall requests shall send just one time

Requirement ID	Req. Rev	Covered Requirement	Requirement Title	
[SRS_CSA_1202]	02		Recall Vs Command priority	
Skill(s)	Mandatory Verification	Allocation / Variant	Iteration	Safety
SW	YES	Ultimate / Premium	Proto-A	ASIL-QM(QM)
The system shall consider Recall request only if physical switches are released and CAN requests are equal to "No Command". <p>When Motor Position is "Not Available" the recall request is not considered</p> <p>Reception of physical Switch or CAN motors request interrupts an ongoing recall request execution.</p>				
Verification	Method & Skill	TESTSYS	Criteria	

Requirement ID	Req. Rev	Covered Requirement	Requirement Title		
[SRS_CSA_1203]	02		Track Recall command		
Skill(s)	Mandatory Verification	Allocation / Variant	Iteration	Safety	
SYS	YES	Ultimate / Premium	Proto-A	ASIL-QM(QM)	
The system shall consider the inputs <b>Track Recall Order</b> to define <b>Motor Track Command</b>					
CAN Motors Request (Cab.i.x)		Motor command outputs (Mot.o.x)			
Track Recall Order > Track Position		Motor Track Command = "CW"			
Track Recall Order < Track Position		Motor Track Command = "CCW"			
Track Recall Order = Track Position		Motor Track Command = "Stop"			
If Track Recall Order = "FF" Motor Track Command is set to "Stop"					
Verification	Method & Skill	TESTSYS	Criteria		

Requirement ID	Req. Rev	Covered Requirement	Requirement Title		
[SRS_CSA_1204]	02		Recline Recall command		
Skill(s)	Mandatory Verification	Allocation / Variant	Iteration	Safety	
SYS	YES	Ultimate / Premium	Proto-A	ASIL-QM(QM)	
The system shall consider the inputs <b>Recline Recall Order</b> to define <b>Motor Recline Command</b>					
CAN Motors Request (Cab.i.x)		Motor command outputs (Mot.o.x)			
Recline Recall Order > Recline Position		Motor Recline Command = "CW"			
Recline Recall Order < Recline Position		Motor Recline Command = "CCW"			
Recline Recall Order = Recline Position		Motor Recline Command = "Stop"			
If Recline Recall Order = "FF" Motor Recline Command is set to "Stop"					
Verification	Method & Skill	TESTSYS	Criteria		

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Requirement ID	Req. Rev	Covered Requirement		Requirement Title	
[SRS_CSA_1205]	02			Tilt Recall Command	
Skill(s)	Mandatory Verification	Allocation / Variant		Iteration	Safety
SYS	YES	Ultimate / Premium		Proto-A	ASIL-QM(QM)
The system shall consider the inputs <b>Tilt Recall Order</b> to define <b>Motor Tilt Command</b>					
CAN Motors Request (Cab.i.x)		Motor command outputs (Mot.o.x)			
Tilt Recall Order > Tilt Position		Motor Tilt Command = "CW"			
Tilt Recall Order < Tilt Position		Motor Tilt Command = "CCW"			
Tilt Recall Order = Tilt Position		Motor Tilt Command = "Stop"			
If Tilt Recall Order = "FF" Motor Tilt Command is set to "Stop"					
Verification	Method & Skill	TESTSYS	Criteria		

Requirement ID	Req. Rev	Covered Requirement		Requirement Title	
[SRS_CSA_1206]	02			CommandArm Recall Command	
Skill(s)	Mandatory Verification	Allocation / Variant		Iteration	Safety
SYS	YES	Ultimate / Premium		Proto-B	ASIL-QM(QM)
The system shall consider the inputs <b>CommandArm ForeAft Recall Order</b> and <b>CommandArm Height Recall Order</b> to define <b>Motor ComArm Height Command</b> and <b>Motor ComArm Fore/Aft Command</b>					
The setpoint motion of Track, Recline and Tilt motors need to be finished before performing CommandARm setpoint motion.					
If CommandArm Height Recall Order > CommandArm Height Position					
First, CommandArm Height setpoint motion is performed					
<b>CAN Motors Request (Cab.i.x)</b>		<b>Motor command outputs (Mot.o.x)</b>			
CommandArm Height Recall Order > CommandArm Height Position		Motor ComArm Height Command ="CW"			
CommandArm Height Recall Order < CommandArm Height Position		Motor ComArm Height Command ="CCW"			
CommandArm Height Recall Order = CommandArm Height Position		Motor ComArm Height Command ="Stop"			
Then, CommandArm ForeAft setpoint motion is performed					
<b>CAN Motors Request (Cab.i.x)</b>		<b>Motor command outputs (Mot.o.x)</b>			
CommandArm Fore/Aft Recall Order > CommandArm Fore/Aft Position		Motor ComArm Fore/Aft Command ="CW"			
CommandArm Fore/Aft Recall Order < CommandArm Fore/Aft Position		Motor ComArm Fore/Aft Command ="CCW"			
CommandArm Fore/Aft Recall Order = CommandArm Fore/Aft Position		Motor ComArm Fore/Aft Command ="Stop"			
If CommandArm Height Recall Order <= CommandArm Height Position					
First, CommandArm ForeAft setpoint motion is performed					
Then, CommandArm Height setpoint motion is performed					
If CommandArm Height = "FF" Motor ComArm Height Command is set to "Stop"					
If CommandArm Fore/Aft = "FF" Motor ComArm Fore/Aft Command is set to "Stop"					
Verification	Method & Skill	TESTSYS		Criteria	