

DFMEA Number: Window Channels
System: Windows
Subsystem:
Component: Channels

Title: 3. Develop DFMEA
Product Group: N
Suppliers:

DFMEA Prepared by: S. Ide
DFMEA Key Date:
DFMEA Original Date:
DFMEA Last Revised:

Design System: Windows

Sub System:

Design Component: Channels

Category	Items	Item Functions	Potential Failure Modes	Potential Effect(s) of Failure	Sev	Max Sev	Class	Potential Cause / Mechanism of Failure	Occ	Current Design Controls (Prevention)	Current Design Controls (Detection)	Det	RPN	Recommended Action(s)	Responsibility	Target Completion Date	Actions Taken	Effective Date	After Actions Taken				
																			Sev	Occ	Det	RPN	% Reduction
1. Components	1. Channel	1. Guide for window to move up/down	Crack/break	Rattle	5	7	◇	Incorrect material specified	2	Drawing review	Supplier provides material certifications at PPAP	2	28										
				Window out of alignment	7																		
				Window stuck in place	7																		
	2. Bracket	1. Provides mounting point	Crack/break	Rattle	5	7	◇	Incorrect material specified	2	Drawing review	Supplier provides material certifications at PPAP	2	28										
				Window out of alignment	7																		
				Window stuck in place	7																		
	3. Nut	1. Secures channel to vehicle door	Crack/break	Rattle	5	7	◇	Incorrect material specified	2	Drawing review	Supplier provides material certifications at PPAP	2	28										
				Window out of alignment	7																		
				Window stuck in place	7																		
		Nut thread failure		Rattle	5	7	◇	Usage of incorrect nut	2	Drawing review	Dimensions checked at PPAP Vehicle try on at PPAP	2	28										
				Window out of alignment	7																		
				Window stuck in place	7																		
2. Assemblies	1. Bracket welded to channel	1. Holds bracket to channel	Crack/break	Rattle	5	7	◇	Incorrect weld specified	2	Drawing review Pull out test of OE	Vehicle try on at PPAP Pull out testing at PPAP	2	28										
				Window out of alignment	7																		
				Window stuck in place	7																		
	2. Nut pressed	1. Holds nut in place	Loosen	Rattle	5	5		Incorrect press fit specified	2	Pull out test of OE Drawing	Pull out testing at PPAP	2	20										

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																			Sev	Occ	Det	RPN	% Reduction
	into bracket	on bracket								review	Vehicle try on at PPAP												
3. Mounting To Vehicle	1. Channel assembly to vehicle	1. Mounts assembly to vehicle door	Loosen	Window out of alignment	7	7	◇	Incorrect press fit specified	2	Pull out test of OE	Pull out testing at PPAP	2	28										
				Window stuck in place	7					Drawing review	Vehicle try on at PPAP												
				Rattle	5																		
			Does not mate	Can not install in vehicle	8	8	◇	Incorrect dimensions specified	2	Drawing review	Vehicle try on at PPAP	2	32										
											Dimensional check at PPAP												
			Does not align window correctly	Can not install in vehicle	8	8	◇	Incorrect dimensions specified	2	Drawing review	Vehicle try on at PPAP	2	32										
											Dimensional check at PPAP												
	2. Window to Channel	1. Guides window during open/close	Loose fit	Rattle	5	5		Incorrect dimensions specified	2	Drawing review	Vehicle try on at PPAP	2	20										
											Dimensional check at PPAP												
			Too tight	Window stuck in place	7	7	◇	Incorrect dimensions specified	2	Drawing review	Vehicle try on at PPAP	2	28										
				Excessive wear on motor/regulator	5						Dimensional check at PPAP												