



Dual Lock™ Reclosable Fasteners

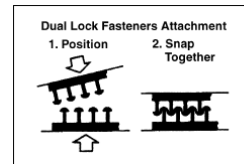
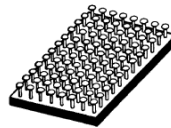
For Professional Automotive Aftermarket

Application Guide

October 2009

General Description

3M™ Dual Lock™ Reclosable Fasteners are positive-locking, blind fasteners designed for attaching sheet metal/pillars, center console panels, interior trim, load floor, sun visors, sun glass holders, interior lighting and electronic components. The products feature mushroom-shaped polyolefin stems that snap together, forming a high tensile closure. Dual Lock reclosable fasteners are used primarily to secure rigid and semi-rigid surfaces. Some application examples are for preventing headliner sag or attaching center consoles, instrument panel bezels, headliners, wall and door panels and other interior trim.



Performance Properties

Below are typical performance properties for the various stem density combinations of Dual Lock reclosable fastener systems. The engage/disengage tensile strengths of the different stem density combinations can become critical when dealing with ergonomic issues. By balancing the fastener strength with the acceptable ergonomic engagement, you can determine the combination that best suits your needs.

The values listed in the tables below are based on typical performance of Dual Lock reclosable fasteners with pressure sensitive adhesive securely attached to rigid surfaces. Engagement and disengagement performance can vary slightly depending on which of the various attachment systems are chosen. In general, the more rigid the attachment system selected, the higher the disengagement strength.

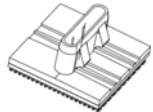
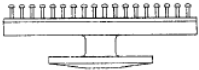
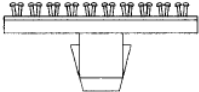
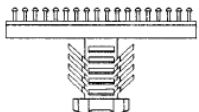
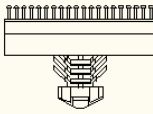
Note: The following technical information and data should be considered representative or typical only and should not be used for specification purposes.

Typical Initial System Dynamic Tensile Strength	3M™ Dual Lock™ Reclosable Fastener engaged to 3M™ Dual Lock™ Reclosable Fastener			
	Type 170 to Type 250	Type 250 to Type 250	Type 170 to Type 400	Type 250 to Type 400
Initial Engagement: lb _f /in ² (N/cm ²)	13 (9.0)	22 (15.2)	21 (14.5)	31 (21.4)
Initial Disengagement: lb _f /in ² (N/cm ²)	27 (18.5)	43 (29.6)	43 (29.6)	60 (41.4)

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Product Matrix						
Product Classification		Line Drawing	Product Number (with stem density)		Potential and Current Applications	Value to the Customer
Pop-in Piece Parts	Ultimate Pop-in Piece Parts		SJ3804 (170)	SJ3805 (250)	• Most attachment applications	<ul style="list-style-type: none"> The go-to part for most pop-in applications; decreases(?) inventory. Requires low insertion force and high extraction force. Allows for multiple engagement and disengagement cycles
			SJ3806 (400)			
	Pop-in Button Piece Parts		SJ3220 (250)	SJ3221 (250)	• Headliner Fasteners	• Attaches without adhesive.
			SJ3277 (170)	SJ3278 (250)		
			SJ3279 (400)	SJ3705 (250)		
			SJ3731 (400)	SJ3743 (250)		
	Pop-in Rectangular Post Piece Parts		SJ3704 (250)	SJ3706 (400)	• Sheet Metal/Pillar Attachment	• Available in a variety of bases that can be inserted or slid into holes of precise dimension.
			SJ3708 (400)	SJ3713 (400)		
			SJ3825 (170)	SJ3826 (250)		
			SJ3827 (400)			
Pop-in Tree Stem Piece Parts		SJ3209 (250)	SJ3222 (250)	• Trim Attachment	• Easy to install.	
		SJ3224 (400)	SJ3266 (170)			
		SJ3267 (250)	SJ3268 (400)	• Door Panel Attachment		
		SJ3272 (170)	SJ3273 (250)			
		SJ3274 (400)	SJ3748 (400)			
		SJ3749 (400)				
Pop-in Tree Stem with Gasket Piece Parts		SJ3274G (400)	SJ3749G (400)			

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Product Classification		Line Drawing	Product Number (with stem density)		Potential and Current Applications	Value to the Customer	
Rigid Back Piece Parts	Rigid Back Slide-in Piece Parts		SJ3248 (250)	SJ3705 (250)	<ul style="list-style-type: none"> Headliner Fasteners Sheet Metal/Pillar Attachment Center Console Panel Attachment Trim Attachment Door Panel Attachment Load Floor Attachment Electronic Component Attachment 	<ul style="list-style-type: none"> Easy to install, change or replace. Requires low insertion force. Blind fastening with positive engagement feedback. Eliminates rattle and vibration. 	
			SJ3717 (400)	SJ3750 (400)			
			SJ3802 (250)	SJ3803 (250)			
	Rigid Back Screw-in Piece Parts		SJ3250 (170)	SJ3251 (250)			
			SJ3252 (400)	SJ3261 (400)			
			SJ3763 (400)	SJ3765 (400)			
			SJ3755 (250)	SJ3762 (400)			
			SJ3767 (400)				
	Call your local sales representative for tape-backed and non-woven piece parts availability.						

**Note: The product's stem density is indicated in parentheses under each product number.

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