

# Hybrid III 5th Small Female Discontinued Chest Jackets

Publication Date: May 2017

After an initial phase-in period for the SAE harmonized Hybrid III 5th Small Female chest jacket, FTSS and Denton brand jackets have been discontinued.

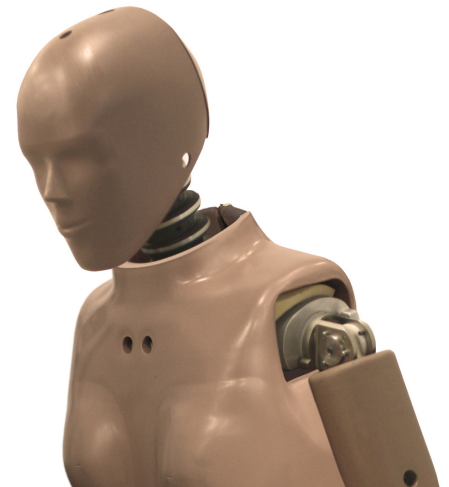
## Background

During the Harmonization task group meetings held in 2011, the committee recommended the use of the 2009 SAE harmonized chest jacket on the new harmonized small female dummy.

The FTSS and Denton versions of the small female jackets are different interpretations of the specifications and vary mainly in the construction and placement of the breasts. To alleviate this variable, SAE organized a joint effort in 2009 between FTSS and Denton to create a jacket with one common geometry and breast location for both brands. The material and stiffness specs were not part of this original harmonization, but jacket stiffness is now called out in an SAE J document as a durometer measurement. The harmonized jacket shape was created purely from the federalized drawings and is the closest to those specifications.



Figure 1 - From left to right: Denton, FTSS, and the SAE harmonized 5th female chest jackets.



At the time of the Harmonization Task Group recommendation, NHTSA was still evaluating the performance of the SAE version of the chest jacket. The evaluation concluded in late 2012, and as a result, produced some design tweaks to enhance the torso flexion performance. These include modifications to the bottom lip of the vinyl wall and shortening of the chest pad. SAE subsequently published standard J2921 in January of 2013 to adequately define this new jacket.

## Harmonized Small Female Dummies

Humanetics began shipping new harmonized small female ATDs solely with the new SAE harmonized chest jacket (880105-355-H) in 2013. Subsequently, the original FTSS brand jacket (880105-355-E-FT) and the Denton brand version (880105-355-E-DN) were not available on new dummies and were only offered as spare parts.

The Harmonization Task Group originally agreed that since the automotive cycle for design and testing can span multiple years, Humanetics should continue producing multiple versions of the jacket for a time period after the harmonized dummy became fully available. Since regulators typically give multiple year phase-in periods, multiple brand versions of the jackets have continued to be produced and sold.

(Con't)

# H-III 5F Discontinued Chest Jackets (Con't)

Since the harmonization dummy efforts in 2011, sales of the multiple brand chest jackets have been declining while customers have been phasing-in the SAE harmonized version (Figure 2).

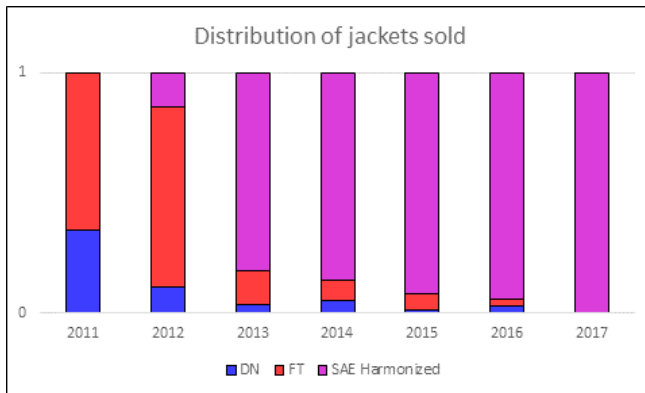


Figure 2 - Distribution of Small Female jackets sold since 2011

## Discontinued Brands

With customer phase-in of new harmonized jackets nearly complete, the previous FTSS and Denton brands are now considered obsolete.

**! Humanetics is immediately discontinuing the production of the brand specific chest jackets and will solely produce the SAE harmonized version.**

Available:	
880105-355-H	Harmonized SAE 5th small female chest jacket
Discontinued:	
880105-355-E-FT	FTSS brand 5th small female chest jacket
880105-355-E-DN	Denton brand 5th small female chest jacket

For more information on the Hybrid III 5th Small Female harmonization, please refer to the Humanetics website. <http://www.humaneticsatd.com/harmonization/atd-brand-harmonization-task-group>

For additional questions please contact your Account Manager or Customer Service Representative.