

# Q-184



## SVE BULLETIN

### SPECIAL VEHICLE ENGINEERING – BODY BUILDERS ADVISORY SERVICE

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## **Alternative Cross Member Locations For E-Series Second Unit Bodies**

This letter amends the 2010MY E-Series Compliance Demonstration Report Package by making Post Job #1 revisions to the Incomplete Vehicle Manual to allow more alternatives for mounting the second unit bodies to the Ford E-Series Cutaway & Stripped Chassis. Additional flexibility, related to frame rail extension and frame cross member location, is provided while still maintaining Ford pass-through compliance for F/CMVSS 301.

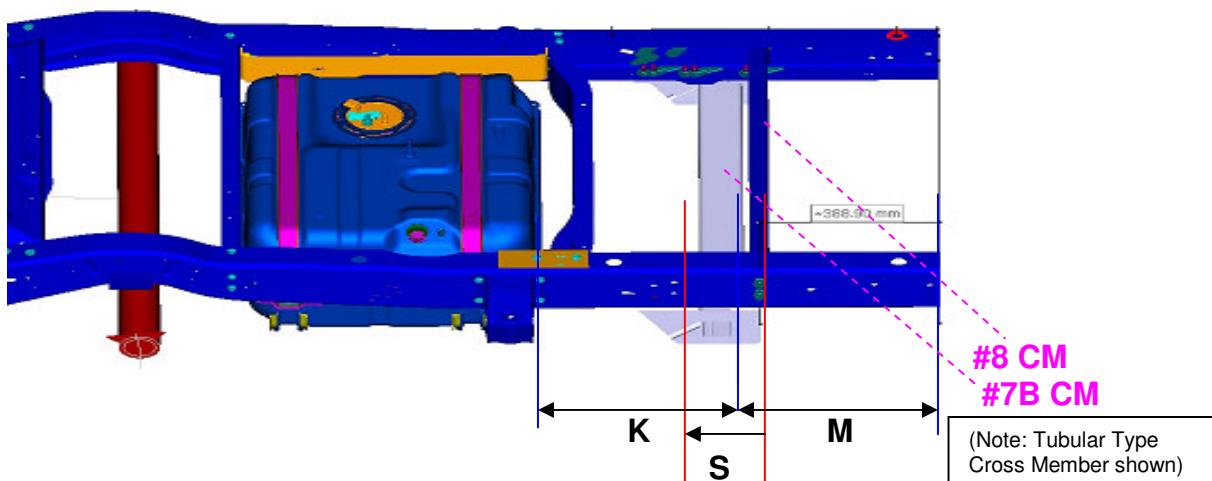
The agreed upon changes affect only – E350 C/A & Stripped Chassis, 10K GVWR and below Incomplete Vehicle, Non-School Bus, 138"/158"/176" WB, Single/Dual Rear Wheel Applications.

### **Additional Dimensions For Cross members and Frame: (Reference Diagram A and Table 1 for more details)**

1. The revisions allow the FSM to use either the #7A Hat Section or #7B Tubular Cross member in any Non-School Bus application that requires a #7 cross member. They also provide guidelines for acceptable mounting locations of the #7 and #8 cross members and for frame rail extension.
2. "K" dimension is added to provide a minimum dimension of the #7A or #7B from the rear edge of the fuel tank flange to the rear surface/edge of the cross member.
3. "M" dimension is added to specify the maximum allowable frame stretch length aft of the #7A or #7B cross member. The measurement is from the rear surface of the #7 cross member to the end of the frame rail.
4. "S" dimension is added to specify alternative locations of the #8 cross member. The measurement is from the design location to a maximum allowable forward position. The #8 cross member may be located anywhere within the "S" dimension.

**Note: If either cross member is relocated, the corresponding cross member must be moved simultaneously, in keeping within dimension "K".**

## NON-SCHOOL BUS APPLICATIONS (Diagram A)



**NON-SCHOOL BUS APPLICATIONS (TABLE 1)**

	Min. Clearance "K" of #7 CM (as measured from rear vertical surface of cross member)		Max. Frame Extension "M"		Distance "S" that #8 CM Can Be FW of Design Loc.	
	Tubular (#7B CM)	Hat-Section (#7A CM)	Tubular (#7B CM)	Hat-Section (#7A CM)	Tubular (#7B CM)	Hat-Section (#7A CM)
<b>Hard Mounted Body Applications</b>	<b>12.5"</b> <b>(318 mm)</b> <i>Current Design Location</i>	<b>31.9"</b> <b>(810 mm)</b> <i>Current Design Location</i>	<b>15"</b> <b>(380 mm)</b>	<b>15"</b> <b>(380 mm)</b>	<b>180 mm</b> FW of Design Position	<b>220 mm</b> FW of Design Position
<b>Rubber Body Mount Applications</b>	<b>15.9"</b> <b>(405 mm)</b> <i>Current Design Location</i>	<b>31.9"</b> <b>(810 mm)</b> <i>Current Design Location</i>	<b>18.3"</b> <b>(465 mm)</b>	<b>18.3"</b> <b>(465 mm)</b>	<b>180 mm</b> FW of Design Position	<b>220 mm</b> FW of Design Position

### Cross Member Part Numbers

Part Number	Description	Usage before this TSB	Usage after TSB
AC24-5060-DA	Tubular	SRW Schoolbus and 176" Non Schoolbus C/A	SRW Schoolbus & All non-schoolbus appl's (if desired, must meet reqmt's)
AC24-5060-AA	Hat Section	Carry over	All non-schoolbus appl's (if desired, must meet reqmt's)