

## F-SERIES INSTALLATION FOR CREW CAB ROOF RAIL - SERVICE KIT INSTRUCTIONS

KIT		
Part Number	Description	Quantity
FL34-16203A04-AT	Roof Rail - Crew Cab (RH)	1
SKFL34-16203A04-AA	Instruction Sheet	1

KIT		
Part Number	Description	Quantity
FL34-16203A05-AT	Roof Rail - Crew Cab (LH)	1
SKFL34-16203A04-AA	Instruction Sheet	1

NOT INCLUDED IN KIT (PROCURE LOCALLY)		
Part Number	Description	Quantity
W702512-S900C	Blind Rivet	8
W708777-S900C	Blind Rivet	26
W710246-S900	Self-Piercing Rivet (SPR) Code BN	4
W790377-S900	Solid Rivet	4
Motorcraft TA-1, 3M 8115 or Fusor 108B	Metal Panel Bonding Adhesive	1

### **SERVICE GUIDELINES:**

- Aluminum repairs should be performed in an area protected from steel working areas, and tools used in aluminum repair should be quarantined from steel repair tools.
- Replacement Self-Piercing Rivets (SPRs) are the preferred replacement during repair for original SPR locations, where feasible. Blind rivets are the next preferred replacement for original SPRs. In some cases, solid rivets may also be used as a replacement for SPRs. The figures will explicitly call out which rivets are possible.
- Replacement SPRs are to be installed adjacent to original SPR location.

### **NOTE: Do not install replacement SPR in original SPR hole.**

- Blind rivets may be installed in original SPR holes, after they are reamed out to 6.5mm. Be sure to grind all surfaces of the flange smooth prior to blind rivet installation in original SPR locations.
- Flow Drill Screws (FDS) are to be replaced by blind rivets only. The original location of the FDS is used, but reamed out to 6.5mm.
- Rivets may be removed by drilling, grinding, or SPR gun set up as a rivet removal tool.
- Using heat (not exceeding 425 °F) to loosen a rivet bonded panel should only be done when all panels in the joint will be replaced or separated and new adhesive applied.
- Flange preparation for adhesive is to grind to clean metal with 80-120 grit, clean, and then apply the adhesive, spreading it out with an acid brush, covering any exposed aluminum.
- Clecos are an excellent way to hold the panels into position when fitting and drilling rivet holes.

SKFL34-16203A04-AA

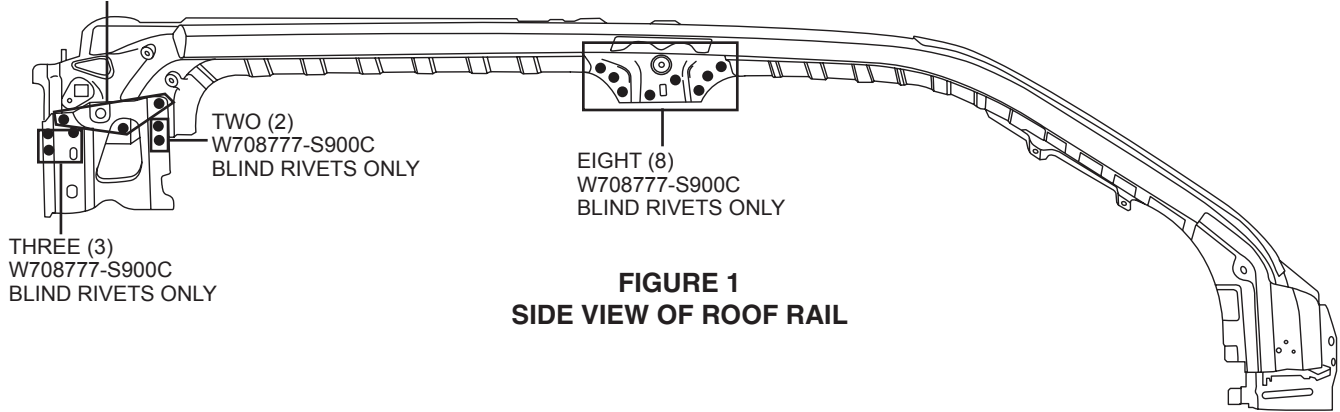
SHEET 1 OF 4



**SQUARED NUMBERS ARE PRO SPOT MANDRELS**

<b>1</b>	<b>SA-0400/SA-0401</b>
<b>2</b>	<b>SA-0400/SA-0402</b>

THREE (3)  
W702512-S900C BLIND  
RIVETS ONLY



**FIGURE 1  
SIDE VIEW OF ROOF RAIL**

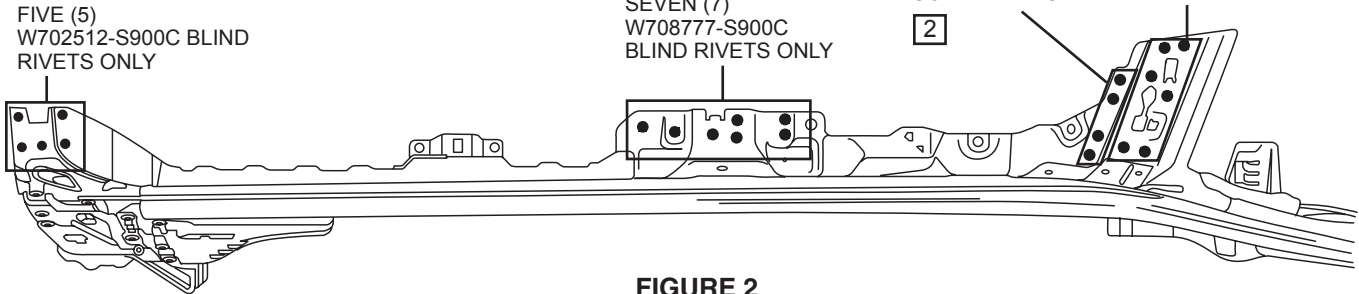
FIVE (5)  
W702512-S900C BLIND  
RIVETS ONLY

FOUR (4)  
W710246-S900  
BN DP10-200/H  
OR W790377-S900  
SOLID RIVETS

SIX (6)  
W708777-S900C  
BLIND RIVETS ONLY

SEVEN (7)  
W708777-S900C  
BLIND RIVETS ONLY

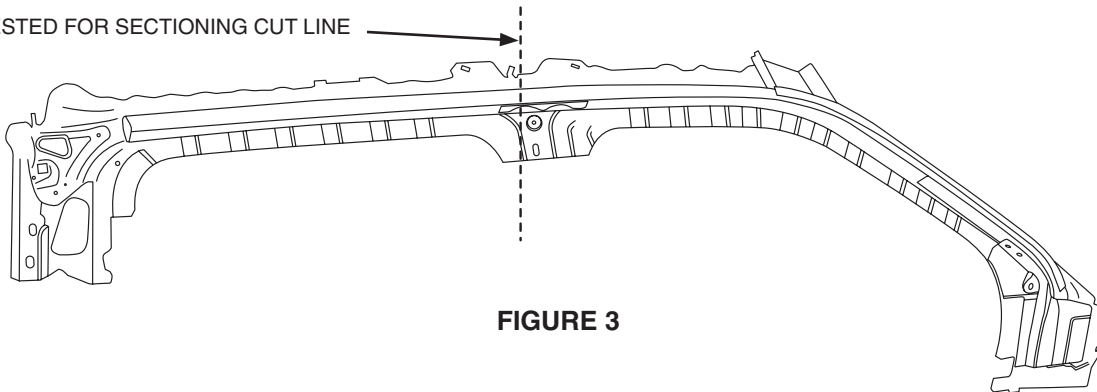
**2**



**FIGURE 2  
TOP VIEW OF ROOF RAIL**

- (Refer to Figure 3) cross member to be sectioned for repair.

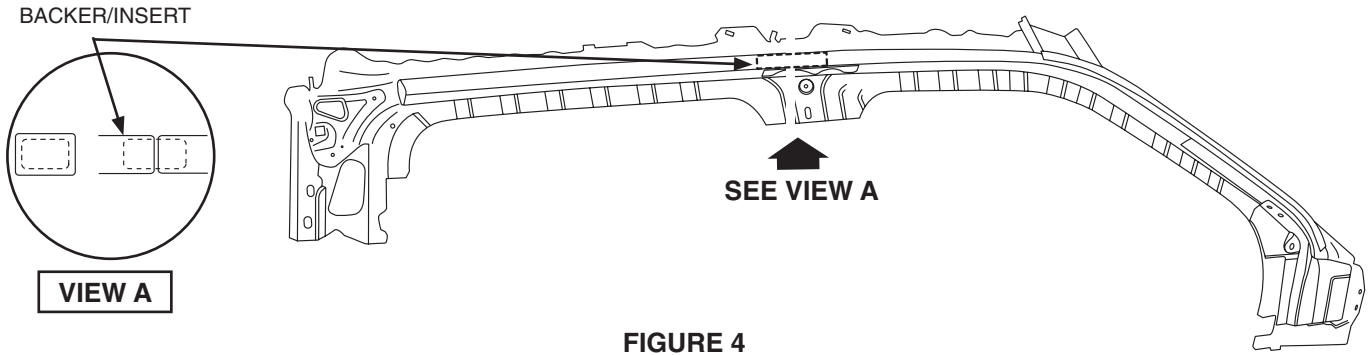
SUGGESTED FOR SECTIONING CUT LINE



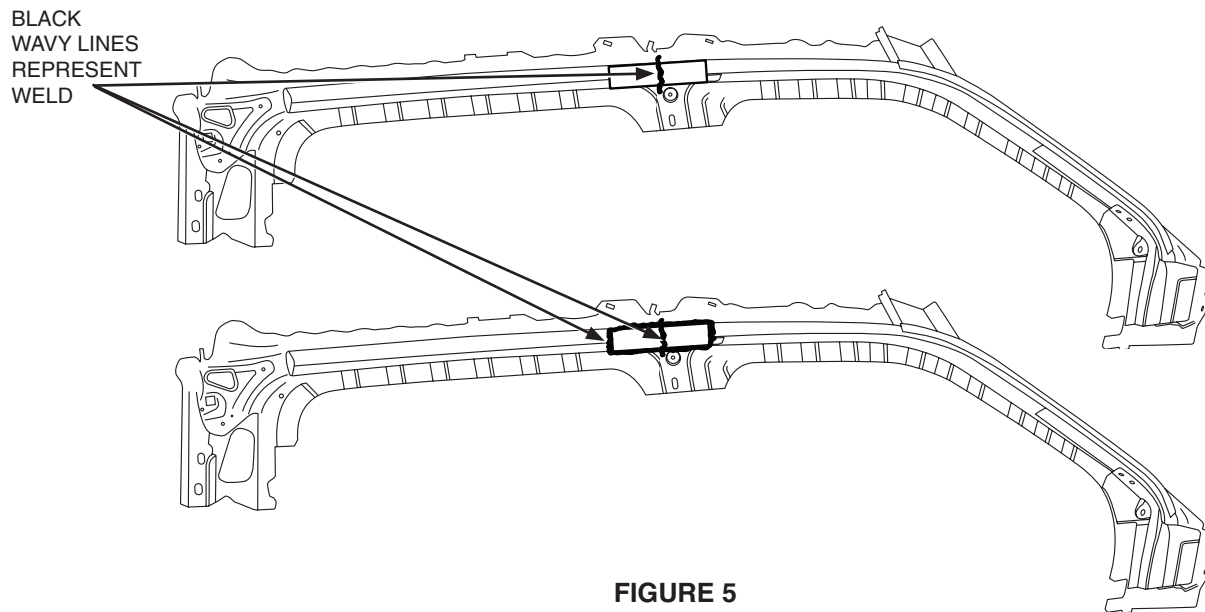
**FIGURE 3**



- Make cuts in tube to remove damaged areas, then make a 4" long insert/backer for repair. Do not damage the B-pillar mounting bracket plate. (Refer to Figure 4).

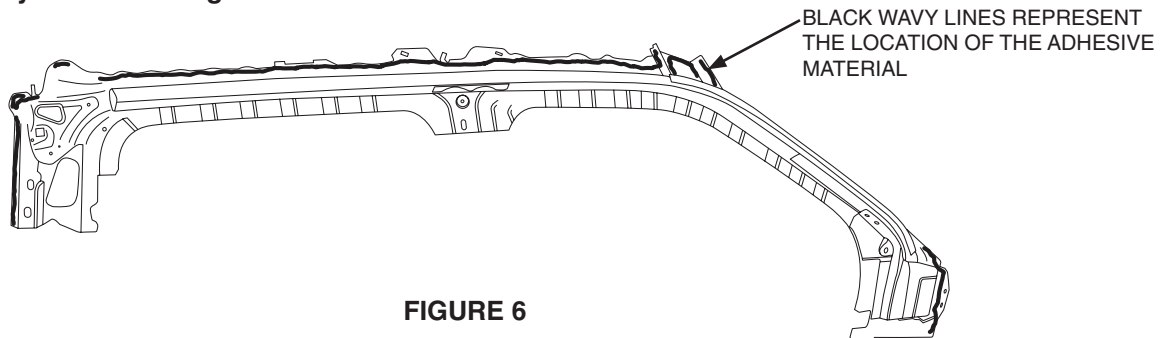


- Insert/backer may be welded into section using four (4) plug welds then solid weld tube fully and dress welds. (Refer to Figure 5).



- (Refer to Figure 6) for location for adhesive material.

**NOTE:** The location of SPR and adhesive shown below are based on the original production drawings and should only be used as a guideline.



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**F-SERIES INSTALLATION FOR  
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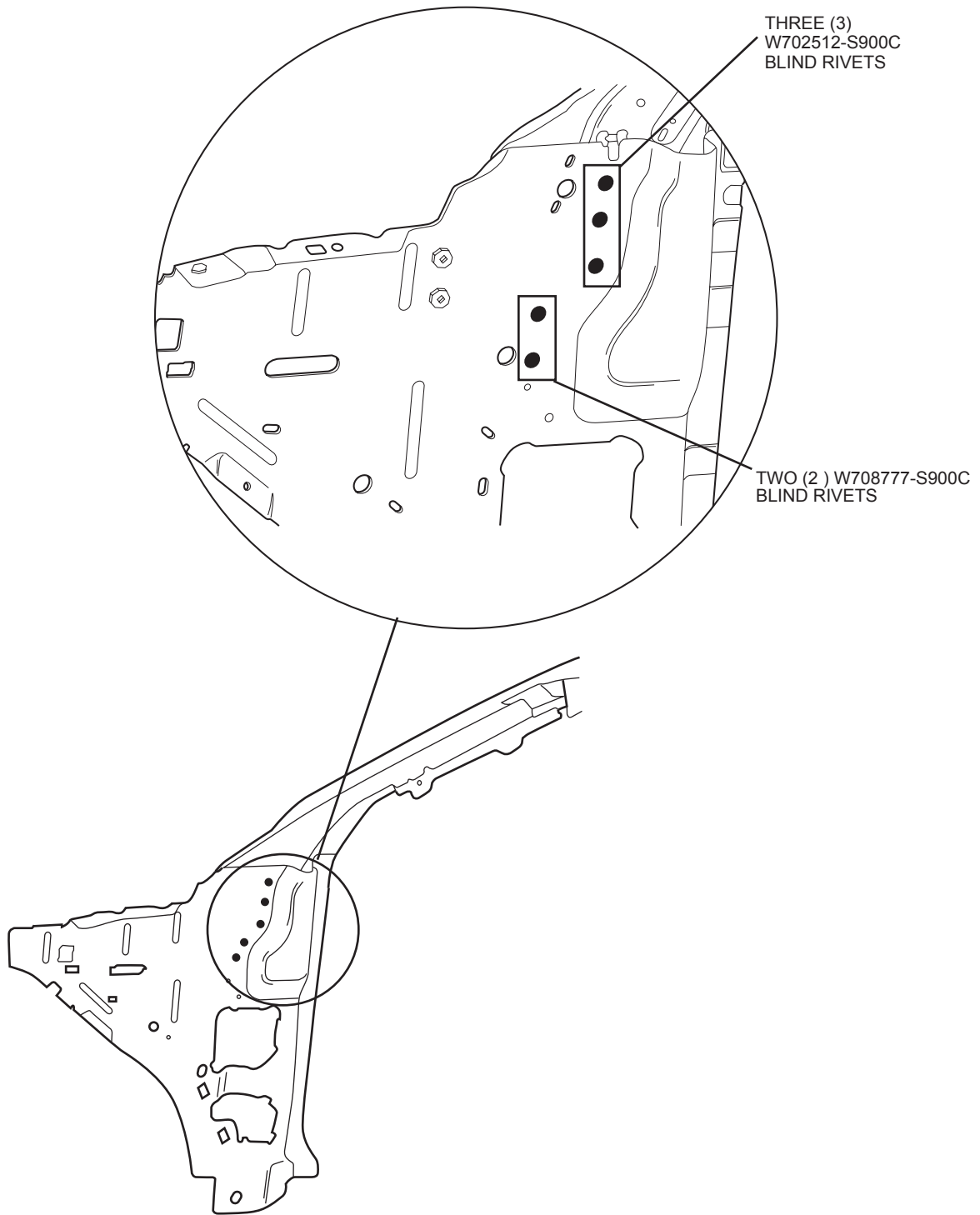


FIGURE 7

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