

Group 2 Body Structure

GENERAL: This group contains information on the basic upper shell.

SPECIFICS: As applicable

- ...Dash Panel (less instrumentation)
- ...Engine Compartment Insulation
- ...Exterior Grilles and Skirts
- ...Inside Floor Plates and Insulation
- ...Inside Trim Mouldings
- ...Inside Trim Panels
- ...Interior Headers and Trim
- ...Interior Header Insulation
- ...Outside Trim Mouldings
- ...Outside Trim Panels
- ...Shell Inner Skin
- ...Shell Outer Skin
- ...Windows and Associated Hardware
- ...Windshield and Associated Hardware



FMC Corporation
Recreational Vehicle Division
333 Brokaw Road Box 664 Santa Clara, California 95052



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333 Brokaw Road Box 664 Santa Clara, California 95052

URGENT

ROUTINE

MANDATORY

INFORMATIONAL

Service Bulletin

DATE 2/14/73

NUMBER 290240001

ATTENTION: SERVICE MANAGER

This Service Bulletin serves to inform you of a possible situation that can arise with the tinted windows (excluding windshields) in the FMC 2900R. We have been informed by the supplier of these windows that the laminated glass used in the initial production vehicles may be subject to cracking. If you should find cracks in any of the windows of the subject vehicles, please inform us and we will arrange for the removal of any defective glass and installation of new glass in its place.

This, of course, does not apply to glass damaged from abuse such as hits from flying debris and the like.

GROUP 2

BODY STRUCTURE

SUBJECT

WINDOWS

MODEL (S)
AFFECTED

FMC 2900R

(Factory Use Only)
Information
added to:

OWNER MANUAL (S)

SERVICE MANUAL (S)

PARTS MANUAL (S)

WARRANTY MANUAL (S)

OTHER

John L. Strever
Service Manager

F.M.C., AS OF 12/31/75, NO LONGER
CARRIES PARTS OR EQUIPMENT
AS OUTLINED IN THIS BULLETIN

(2)

FMC Corporation
Motor Coach Division
233 Brokaw Road Box 264
Santa Clara, California 95052
(408) 269-0171

FMC

December 1, 1976

Dear FMC Motorcoach Owner:

It has come to our attention through inspection and repair of various numbered motor coaches that the upper body structure to the lower frame mounting points has missing rivets or rivets that are coming loose.

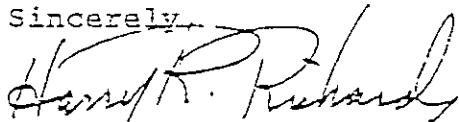
The general area this seems to show up is behind the rubber boot in the forward section of the rear wheel well on the right side of the coach. While we do not feel this problem is serious, it could be if it goes unattended over the years.

Through our Engineering Dept., we have come up with a steel joint reinforcement kit that will require welding, special huck rivets, and huck rivet guns. Motor Coach Division will have to rent these guns at a premium rental fee. Due to personnel cut-back in Motor Coach Division, the high cost of the guns, and the special training required to accomplish this task, we can only come up with the few service centers as the per attached list. These centers have the equipment and service technicians that we feel are qualified to do this work. It is because of all these conditions that it will be essential to have complete cooperation of all motor coach owners.

Motor Coach Division will only honor those claims submitted for the above work until June 1, 1977, Motor Coach Division will not honor any claims for the aforementioned work after this date.

Please call the nearest service center on the enclosed list for an appointment. We are thanking you in advance for your cooperation.

Sincerely,



HARRY R. RICHARDS
Customer Service Manager

HRR/laf



FMC Corporation
Motor Coach Division
333 Brokaw Road Box 664 Santa Clara California 95052

URGENT

ROUTINE

MANDATORY

INFORMATIONAL

Service Bulletin

DATE December 1, 1976

NUMBER 2902-30001

ATTENTION: SERVICE MANAGER

GROUP

2

DESCRIPTION

This bulletin provides instructions for inspecting and reinforcing the upper body structure to lower frame mounting points. Inspection is to be accomplished on all motor homes within serial range as indicated.

SUBJECT

Frame
Reinforcement
Instructions

COMPLIANCE

Owners' should take their coach to one of the participating service centers listed as an attachment to the owners notification letter. FMC will reimburse for labor provided that this bulletin is accomplished no later than June 1, 1977.

PARTS REQUIRED

<u>Qty.</u>	<u>Part Number</u>	<u>Description</u>
6	5109097-01	Angle
16	5109247-04	Fastener (colored Red)
24	5109247-05	Fastener (colored Yellow)
8	5109247-07	Fastener (colored Brown)
25	M25029	Rivet-Fiberglass to Frame
35	M25032	Rivet-Shear Panels and Door Frame
25	M25044	Rivet-Exterior Door Molding
20	M25090	Rivet-Rub Rail Trim Molding
50	M25099	Rivet-Fiberglass Panels Upper
50	M25104	Rivet-Fiberglass Panels Lower

MODEL (S)
AFFECTED

All Motor Homes
00001 to 01050
Model 2900R

TOOLS & EQUIPMENT

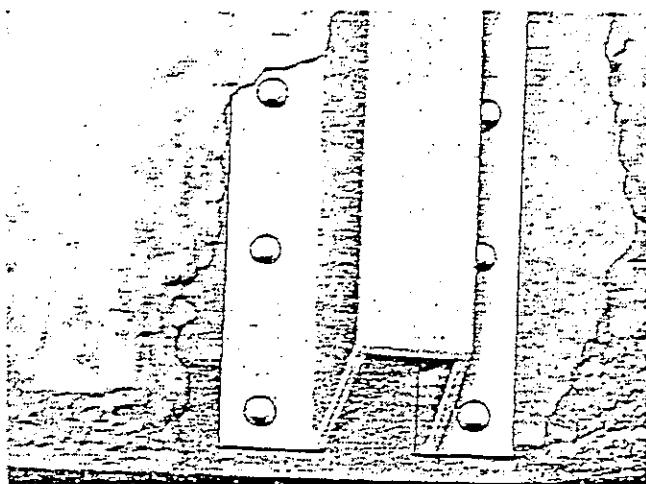
One special "Huck" gun for fasteners

Zinc Chromate primer for aluminum to steel interface

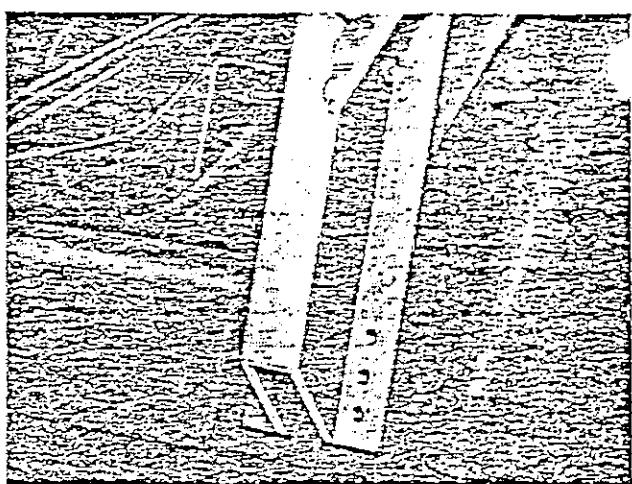
Steel welding capacity and welding rod 3/32 O.D., alloy 7015,
7016, or 7018.

MANPOWER

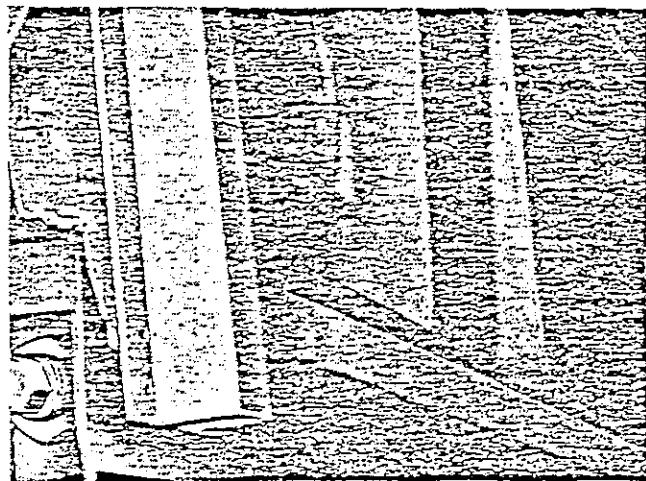
Estimated accomplishment times per coach will depend upon coach condition as shown in Figures 1 and 2 and will vary from coach to coach. FMC/MCO will reimburse for labor per the following provided that WORK IS COMPLETED NO LATER THAN June 1, 1977.



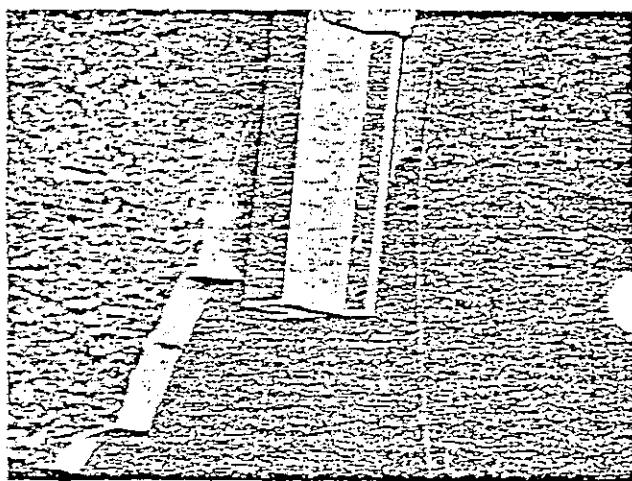
(A) Good section at frame proper cut-away of foam for rivet inspection



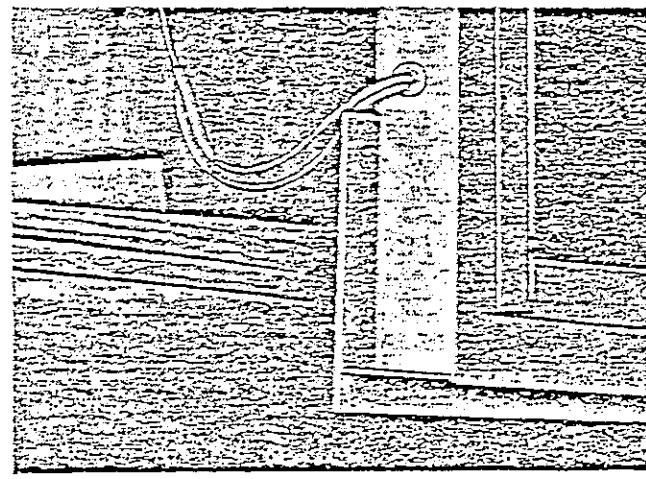
(B) Right front section with missing rivets



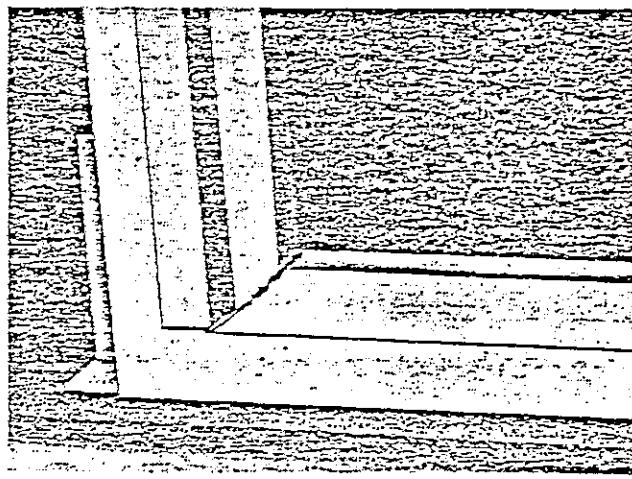
(C) Right rear support section pulled away from lower frame



(D) Left rear support section pulled away from lower frame



(E) Passenger door frame pulled away from lower frame



(F) Hairline crack lower aft corner of passenger frame

FIGURE 1. TYPICAL SECTION AND FRAME CONDITIONS.

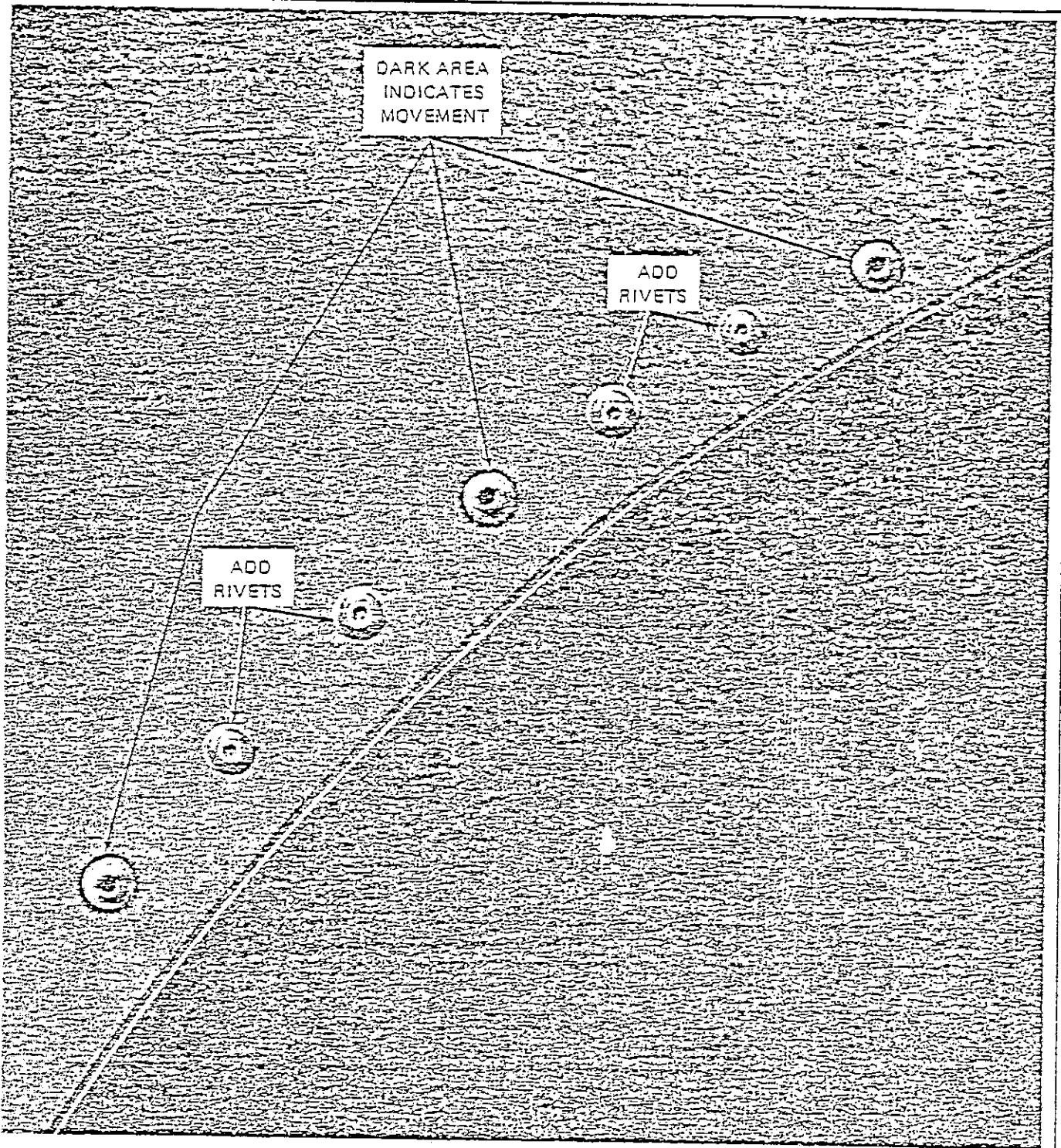


FIGURE 2. SHEAR PANEL TO WHEEL WELL CONNECTION.



FMC Corporation
Motor Coach Division
332 Brokaw Road Box 664 Santa Clara California 95052

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ATTENTION: SERVICE MANAGER	GROUP
Condition 1 - Right and left sections forward of rear wheels (positions L4 and R4 in Figure 3) need reinforcement ---4 man hours. Please note that it is not necessary to completely remove coach panels to reinforce for this condition (see Joint Reinforcement Figure 5).	2
Condition 2 - Right and left sections forward of rear wheels (L4 and R4) and all right side sections between rear wheel and front wheel (R3, R2 and R1) plus shear panels in front and rear right side wheel wells (see Figure 3) need reinforcement---8 man hours.	SUBJECT Frame Reinforcement Instructions
Condition 3 - Right and left sections forward of rear wheels (L4 and R4), all right side sections between rear wheel and front wheel (R3, R2 and R1) plus shear panels in front and rear right side wheel wells and left side sections rear of front wheel (L1, L2 and L3), plus shear panels in front and rear left side wheel wells (see Figure 3) need reinforcement. Call factory service representative 408-289-3665 regarding warranty reimbursement <u>before</u> proceeding with the work.	MODEL(S) AFFECTED All Motor Homes 00001 to 01050 Model 2900R
Condition 4 - Right and left sections forward of rear wheels (L4 and R4), all right side sections between rear wheel and front wheel (R3, R2 and R1) plus shear panels in front and rear right side wheel wells and left side sections rear of front wheel (L1, L2 and L3), plus shear panels in front and rear left side wheel wells, and all four corners of passenger door frame (see Figure 3) need reinforcement. Call factory service representative 408-289-3665 regarding warranty reimbursement <u>before</u> proceeding with the work.	

INSPECTION

A thorough inspection of each coach is essential before proceeding with the work to determine if all parts and equipment are in stock and to determine extent of frame reinforcement required.

1. Release lower edge of fiberglass side panels on left and right sides of coach (see Figure 5).
2. Cut away foam insulation just enough to inspect all rivets on body sections and shear panels (Figure 1A).

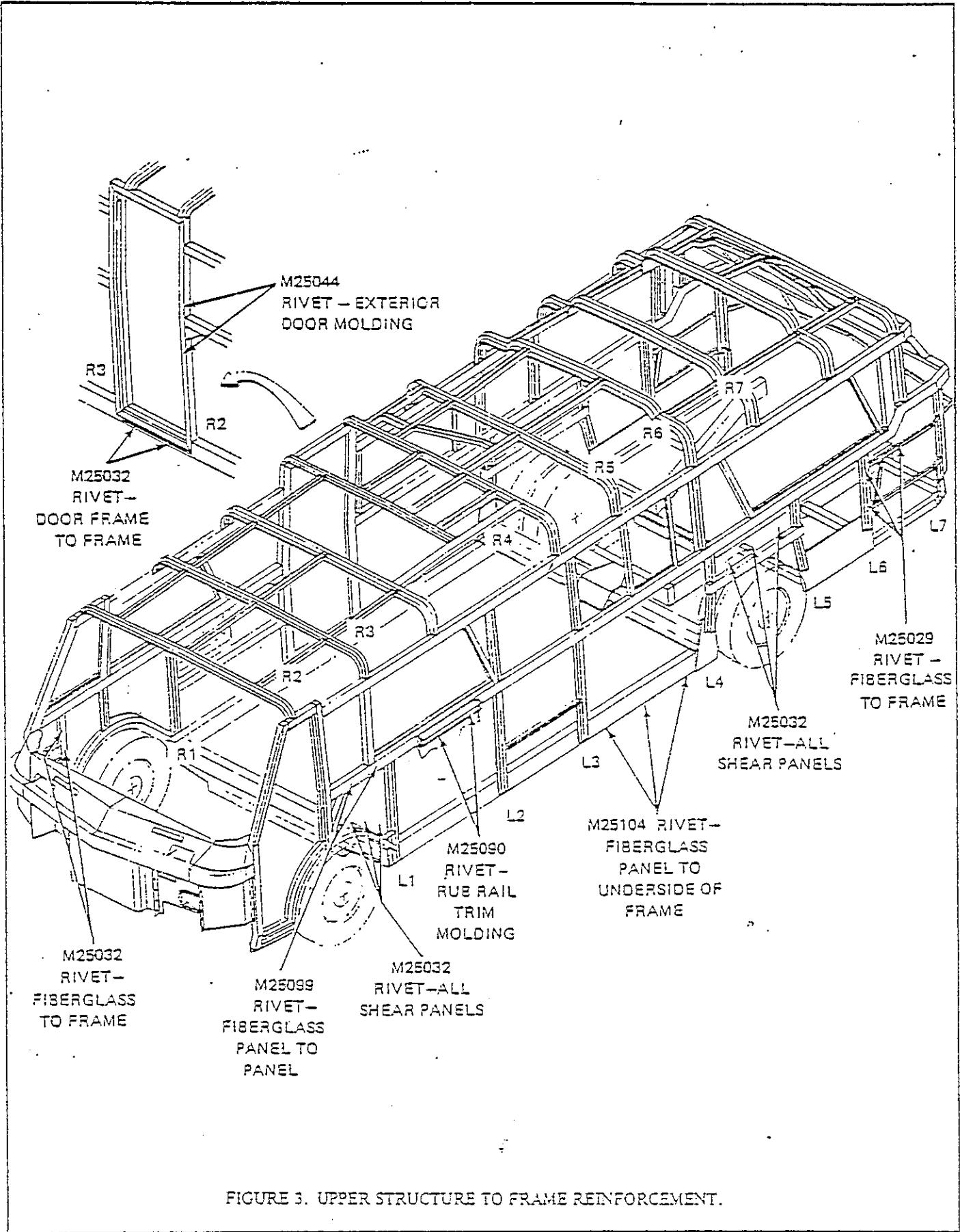


FIGURE 3. UPPER STRUCTURE TO FRAME REINFORCEMENT.



FMC Corporation
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ATTENTION: SERVICE MANAGER	GROUP
3. Inspect all body section to frame mounts and door for missing rivets, possible movement or disfiguration of rivets (Figure 2) or movement of body section or door frame away from lower frame (Figures 1 and 3). 4. Inspect shear panels for missing rivets, possible movement or disfiguration of rivets (Figure 2) or movement of shear panel away from upper body sections. Note: If rivets show signs of movement, add two new rivets between each pair of existing rivets as shown in Figure 2. 5. If all upper body section to lower frame rivets are in place and show no signs of deterioration, no reinforcement is necessary except at the right and left body sections (L4 and R4, Figure 3) forward of the rear wheels. New frame reinforcing angles will be added at these points regardless of the condition of the existing section and rivets.	2
SUBJECT	MODEL (S) AFFECTED
A. <u>Bull Section to Frame Angles</u> (Figure 3, positions L4, R4, R2 and R3) 1. Make certain coach is level at all four jacking points. Jack up body until distance from horizontal strut (just forward of right rear wheel) to bottom of frame is 39 to 39 1/4" as shown in Figure 4. 2. Realign rivet holes as close as possible. 3. Close gap between upper body section and lower frame with C clamp. 4. Cut out shear panel only as necessary to install reinforcing angles. 5. Grind or file off existing rivet heads to make angles flush with shear panel. 6. Apply zinc chromate primer to reinforcing angles in all areas that come in contact with aluminum. 7. Place reinforcing angles (5109097-01) against the body section and flush with lower frame. Secure with C clamps.	All Motor Homes 00001 to 01050 Model 2900R

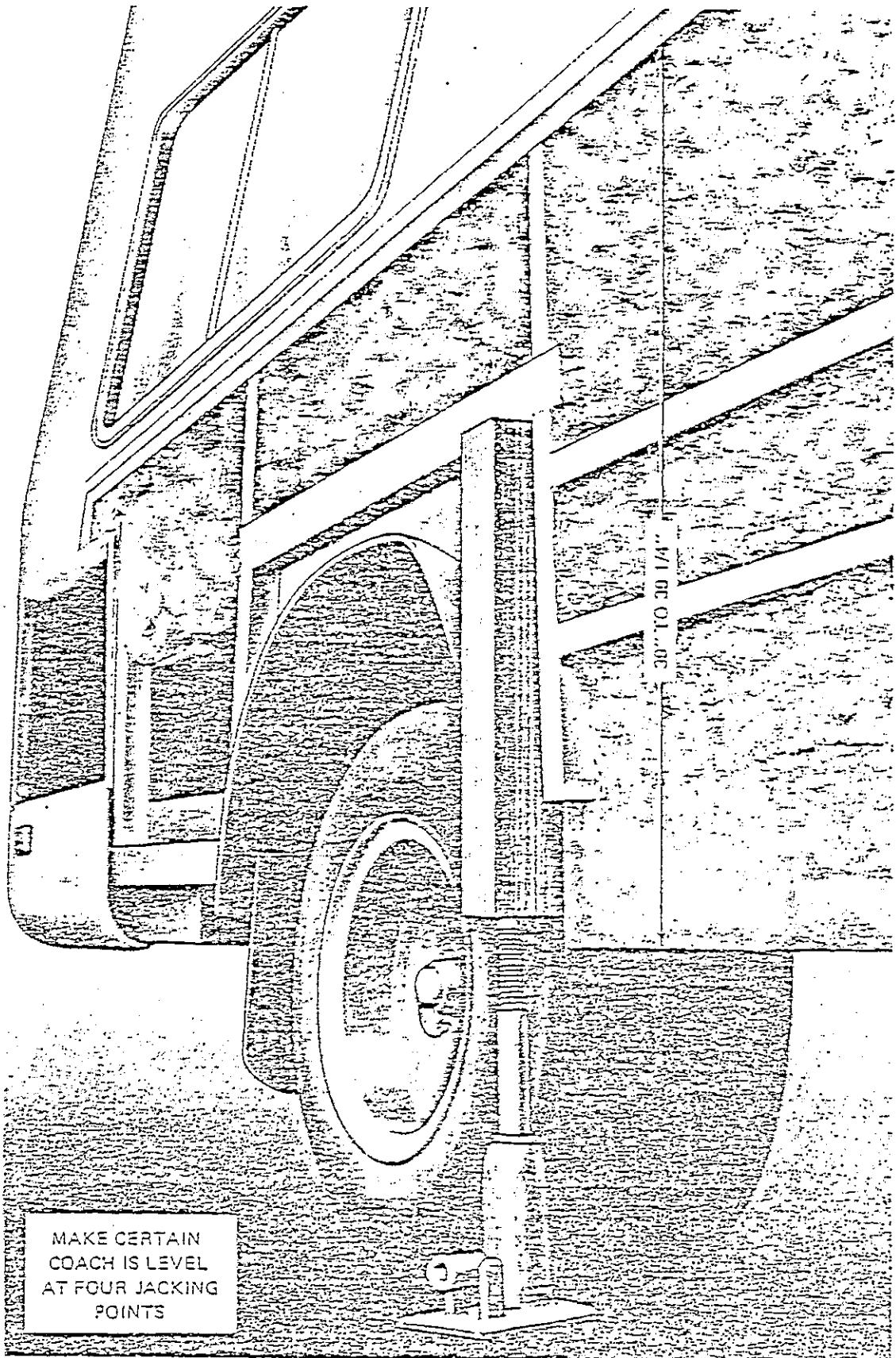


FIGURE 4. BODY TO FRAME DIMENSION.



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Motor Coach Division
333 Brokaw Road Box 554 Santa Clara California 95052

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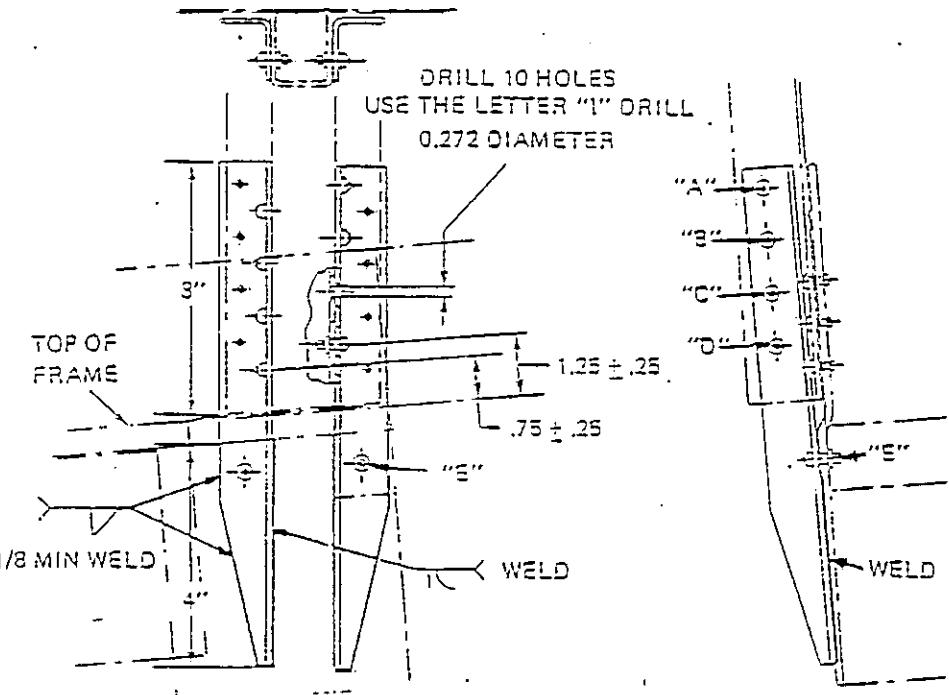
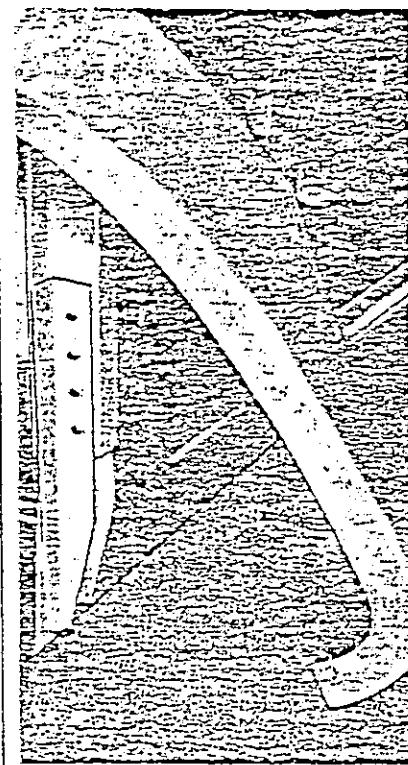
INFORMATIONAL

Service Bulletin

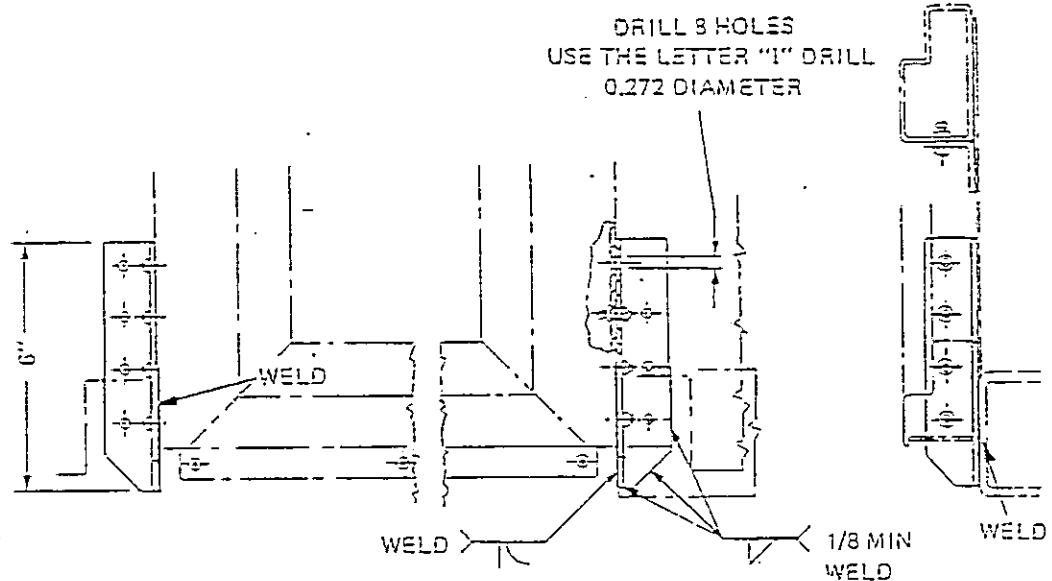
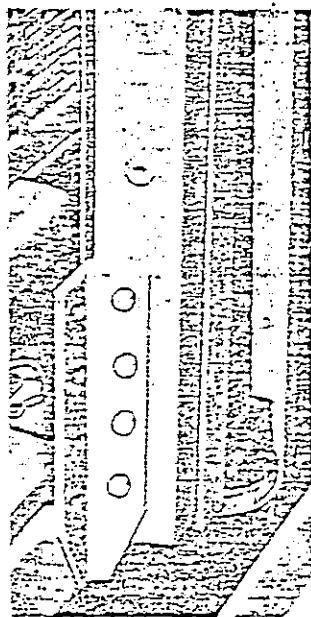
DATE December 1, 1976

NUMBER 2902-30001

ATTENTION: SERVICE MANAGER	GROUP 2						
<p>8. Drill two holes through each angle, one into body section and one onto the lower frame at points "D" and "E" in Figure 5. Use an "I" size drill.</p> <p>9. Install one fastener (5109247-04, colored red) through body section and lower hole of angle ("D" in Figure 5) to secure each angle. Use special "Huck" gun on fastener.</p> <p>10. Install one fastener (5109247-05, colored yellow) through frame and lower hole of angle ("E" in Figure 5) to secure angle at position L4 only (see Figure 3).</p> <p>11. Install one fastener (5109247-05, colored yellow) through frame and lower hole of angle ("E" in figure 5) to secure angle at position R4 only (see Figure 3). Use special "Huck" gun on fastener.</p> <p>12. Drill three holes through each angle into body sections for positions "A", "B" and "C" in Figure 5. Use an "I" size drill.</p> <p>13. Install fasteners (5109247-04, colored red) through body section to secure each angle. Use special "Huck" gun on fastener.</p> <p>14. Remove paint and scale in areas to be welded. Degrease using small disc sander or wire brush prior to welding.</p> <p>15. Weld angle to lower frame as indicated in Figure 5. A metal to metal fit is desirable. If gap exists, make two welding passes.</p> <p>B. <u>Hull Section to Frame</u> (Figure 3, positions L1, L2, L3, L5, L6, L7 and R1, R5, R6 and R7)</p> <p>1. Drill out old rivets and replace with "Huck" fasteners per table listed below:</p> <table><thead><tr><th>Position</th><th>Fastener</th></tr></thead><tbody><tr><td>L1, L2, L3, L5, L6, L7</td><td>5109247-05, colored yellow</td></tr><tr><td>R1, R5, R6, R7</td><td>5109247-07, colored brown</td></tr></tbody></table> <p>2. Realign rivet holes as close as possible.</p> <p>3. Close gap between body section and lower frame with C clamp.</p>	Position	Fastener	L1, L2, L3, L5, L6, L7	5109247-05, colored yellow	R1, R5, R6, R7	5109247-07, colored brown	SUBJECT Frame Reinforcement Instructions
Position	Fastener						
L1, L2, L3, L5, L6, L7	5109247-05, colored yellow						
R1, R5, R6, R7	5109247-07, colored brown						
	MODEL(S) AFFECTED All Motor Homes 00001 to 01050 Model 2900R						



JOINT REINFORCEMENT - POSITION L4-R4 ONLY* (FIGURE 3)



PASSENGER DOOR REINFORCEMENT - POSITION R2 AND R3 ONLY (FIGURE 3)

FIGURE 5. REINFORCING ANGLES.