1. Remove rear seat and forward baggage compartment floor (See Fig. 1).

2. Install & weld rear seat fittings (AF24121-RS, 2 req) in appropriate location (See Figs. 2 & 3). The holes in the fittings should line up with the existing holes, as seen in Figs. 2 & 3. The seat back may be used as a jig. DO NOT weld the top edge of the fitting. Parts should be TIG welded, in accordance with AC43.13-1B 4-75. Note that depending on the installation, the forward edge of the fittings may need to be notched in order to provide clearance for the seat back (See Fig. 4). Ensure that the top of the fittings are in line with the baggage floor mounting tab.

3. Install two additional cross bar stubs (AF2000-2) 3 inches behind the originals (See Fig. 5 & 5A). This is done by welding the new part to the existing fuselage longerons. The side panel and/or upholstery will have to be notched in order to accommodate the new cross bar stubs. Note that this STC requires STC SA681AL (removeable rear seat cross bar kit - F. Atlee Dodge P/N 3146) be installed. It is important that both new cross bar stubs are lined up correctly, so that the cross bar may be easily installed and removed. This may require trimming of the rear portion of the cross bar stubs such that the stubs are parallel.

4. Drill the baggage compartment floor to match the holes in the new rear seat fittings. The baggage compartment floor may now be re-installed. (See Fig. 6)

5. The crossbar, rear seat back, and seat bottom may now be installed. The position of the rear seat is adjusted as follows: Remove pins holding the seat back to the cross bar. Remove the seat back. Remove the cross bar, and re-install in desired location. Slide the seat back down, guiding the pins into the desired locations. Re-install the pins holding the seat back to the cross bar, and safety pin them using two AN416-1 pins. Verify security of seatback / crossbar.

NOTE:
Depending on installation, the top forward edge of the rear seat fitting (AF24121-RS) may need to be notched in order to provide clearance for the hole.

Ensure the top of the rear seat fitting and the top of the baggage floor mounting tab are in line, so that the floor panel can be re-installed properly.

Weld here (both sides) DO NOT weld top

Fig. 1
Fig. 2
Fig. 3
Fig. 4
Fig. 5
Fig. 6
Fig 5A

Fig. 1
Installation with stock seat back
Fig. 2
Installation with optional Super 18 seat back
Fig. 3

Added holes for seat back pins (Optional Super 18 seat back shown installed)

Original holes for seat back pins

Fig. 4

Fig. 5

See Fig. 5A

Fig. 6

See Fig. 5A

Added cross bar stubs (AF2000-2)

Added cross bar stub (AF2000-2)

3 in.