

Accessory Kit No. AK-104A  
 Supersedes AK-104

DATE: November 26, 1974  
 TITLE: Child's Seat Accessory Kit  
 MODELS AFFECTED: All Model AA-1, AA-1A and AA-1B aircraft

WEIGHT AND BALANCE CHANGE:  
 Weight Increase : 7.61 lbs.  
 Arm : 129.30 in.

Parts List - Kit Number AK-104A1 (Serial #AA1-0001 through #AA1-0100)  
 Kit Number AK-104A2 (Serial #AA1-0101 and up and all Model AA-1A and AA-1B aircraft)

Quantity	Part Number	Description
1	804029-501/502	Seat Back Assembly/TR-2
1	804028-501/502	Seat Assembly/TR-2
1	444903	Seat Belt Assembly
2	MS27039-1-11	Screw
2	NAS680-A4	Nutplate
4	MS20470AD3-4	Rivet
2	AN4-5A	Bolt
2	AN960-416L	Washer
1	804032-2	Bracket
2	902017-5	Bushing
2	AN3-6A	Bolt
12	AN960-10	Washer
6	MS20364-1032	Nut
1	804032-1	Bracket
6	AN526-832-R6	Screw
2	MS27039-1-09	Screw
1	803007-31	Placard
3	804029-6	Bracket
* 1	102367-501	Stiffener, Horizontal
* 16	1601-0410	Rivet

→ AA1-0001 thru AA1-0100 only.  
 Not required for AA1-0101 and up and Model AA-1A and AA-1B aircraft.

## Description of Installation

The following information outlines the recommended procedures for installing the optional child's seat kit. Estimated time to accomplish this installation is 8 man hours; four hours for -2 Kit.

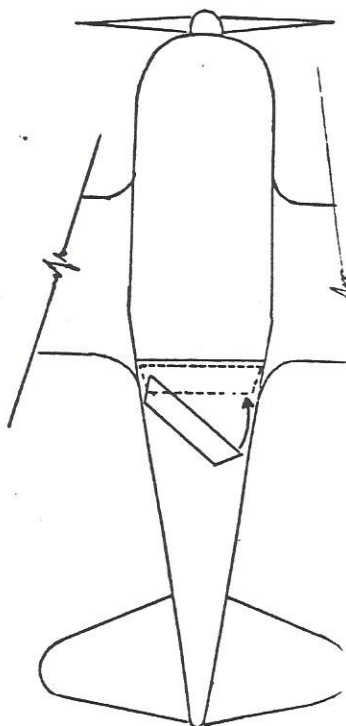
## Installation Instructions

1. Remove the hat shelf by pulling downward on the four (4) white plastic fasteners located on the underneath side of the hat shelf. (AA1-0001 thru AA1-0432 only).
  2. Remove aft upholstery panels: This includes the aft window mouldings, lower aft side panels, and the baggage compartment rear panels (upper and lower).
- NOTE: Revision "A" incorporates Model AA-1A and AA-1B aircraft and adds Part Number for TR-2 seats. 444903 seat belt was B-36 T-21 Model 9600-3; AN4-5A bolt was AN4-6; .26 Dia. hole was .25 Dia.

Also pull up the rear one-third of the baggage floor carpet. (Note: On some models the carpet is glued to the floor and should be pulled up slowly to prevent tearing.) Remove air seal which is behind and below the baggage floor to gain access to the underneath side of the floorboard.

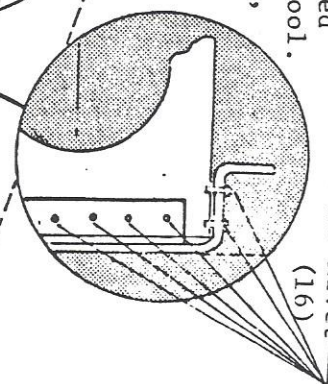
3. On aircraft AA1-0001 thru AA1-0100 remove angle stiffener across rear of baggage compartment and install channel stiffener (102367-501) supplied with this kit. This channel was installed at the factory on later aircraft. The channel is to be installed horizontally on the aft face of the fuselage side angle stiffeners with the flanges facing aft and the 8 pre-drilled holes in one flange on the top. (Ref. figure 1) Using the top view of the aircraft (Fig. 1) as a guide, hold the left hand end of the channel in position and slide the opposite end forward along the right hand side of the fuselage. A slight bulging of the side of the fuselage may occur as the channel slides forward into position. Hold or clamp channel into position and using pre-drilled holes in the channel, back drill 16 (.136 dia.) holes through the longitudinal stiffening flanges and the vertical stiffening angles. (Ref. figure 1) Install the 1601-0410 rivets supplied with this kit.
4. Locate and drill (2) .26 dia. holes for the seat bottom attachment through the floor. (Ref. figure 2) Drill the (4) #40 holes for the nutplates and install same underneath the floor using MS20470AD3-4 rivets.
5. Remove aft baggage strap brackets. Locating the rear holes of the seat belt brackets (804032-1 L.H. & -2 R.H.) in these vacated holes, locate forward holes and drill 1 #10 hole on each side of the floorboard for forward attaching bolts. Install seat belt brackets per figure 1.
6. Install air seal below and behind the baggage floorboard.
7. Position lower aft upholstery panel in its proper location and drill (6) #10 holes through panel to match the existing rivnuts which are installed in the channel stiffener. Install upper and lower aft panels. Install the (3) seat back clips (804029-6) using the AN526-832-R6 screws supplied with this kit. Clips are to be facing upward. (Ref. figure 1)
8. Install seat back by sliding it down the aft panel and over the clips. (Ref. figure 1) Remove the existing weight and limitations placard and replace with the (807007-31) placard supplied with this kit. Clean Royalite with isopropyl alcohol before installing placard.
9. Install window mouldings, lower side panels and carpeting. Make cutouts as required in carpeting to clear seat belt brackets, and to allow installation of bolts into the installed nutplates.
10. Install seat belts as shown in Fig. 1.
11. Insert the (2) AN4-5A bolts through the seat bottom brackets and attach through the floorboard into the nutplates of step 4.
12. To provide baggage tie down capability, replace one forward tie down strap and bracket with one aft strap assembly. This requires pulling up the forward edge of the baggage floor carpeting and removing the appropriate access panel to gain access to the forward tie down strap nut.
13. Hat shelf may be re-installed with seat back removed. (AA1-0001 thru AA1-0432 only).





Rivets may be installed using a "pop" rivet tool. (United Shoe Machinery, P/N PRG410 or equivalent)

1601-0410 Rivet (16)



AN526-832-R6 Screw (6)

804029-6 Bracket (3)

SEAT 804029-501/502

Front Back

102367-501 Stiffener

Royallite

804028-501/502 SEAT

MS27039-1-09 Screw (2)

MS27039-1-11 Screw (2)

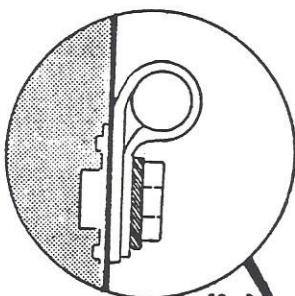
AN960-10 Washer (8)

803007-31 Placard

804032-1 & -2 Bracket (2)

444903 Seat Belt Assy. MS20364-1032 Nut (4)

AN4-5A Bolt (2)  
AN960-416L Washer (2)  
NAS680-A4 Nutplate (2)  
MS20470AD3-4 Rivet (4)



AN3-6A Bolt (2)  
AN960-10 Washer (4)  
902017-5 Bushing (2)  
MS20364-1032 Nut (2)

FIGURE 1

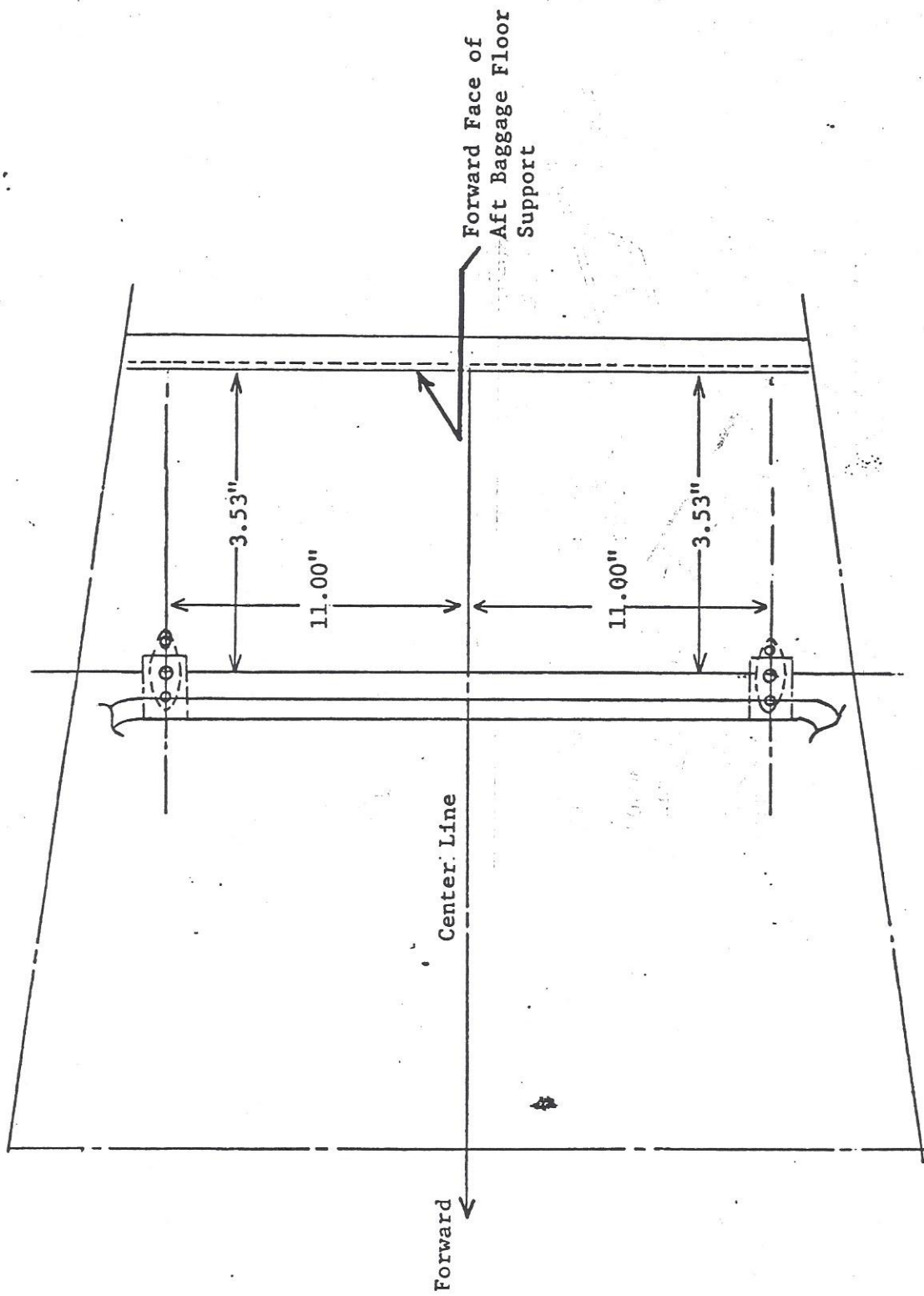


FIGURE 2