



1-26 Shoulder Harness Tray Kit

Installation Instructions

1. For ease of installation, remove wings, canopy, and aft canopy deck from fuselage
2. Remove the shoulder harness by removing the AN5-14A bolt, AN365-524 nut, and AN960-516 washer holding the AN115-32 shackle (the hardware will not be reused)
3. Remove the AN115-32 shackle from the shoulder harness by removing the AN4-7A bolt, AN365-428 nut, and AN960-416 washer (the shackle and hardware will not be reused)
4. Remove the shoulder harness from the aircraft and set aside for later
5. Locate the 26243-019 channel on the aircraft per the 26246-001 shoulder harness installation
 - a. Note: remove any foam or sealer on the longeron where the channel sub-assembly will be located
6. Securely clamp the 26243-019 channel to the aircraft based on step #5
7. Using the (2) holes on each end of the 26243-019 channel as a guide, drill through the top of the longeron
8. Once all (4) holes have a pilot hole into the longeron, drill entirely through the channel and longeron using a #14 (0.182" diameter) drill
 - a. Note: it is advised to use a drill bushing to keep the drill straight as it goes through both sides of the longeron
9. Ream the previously drilled holes to 0.188"-0.190" diameter; put a 3/16" celco in each hole as it is reamed
10. Place an AN742D12 clamp (alt. AN742-12 clamp) on each diagonal tube (as shown in 26246-001 shoulder harness installation) so that the flat side of the clamp is up when it is rotated inboard
11. Slide the clamps under the 26243-019 channel so that the clamps are toward the front of the channel (as shown in the 26246-001 shoulder harness installation)
12. Mark the hole locations of the clamps on the bottom of the channel
13. Remove the 26243-019 channel and drill the marked locations up to a #10 (0.1935" diameter) drill
14. Complete the 26246-003 channel sub-assembly as follows:
 - a. Celco the 26243-015 shoulder harness lug to the 26243-019 channel so that the round end of the lug is sticking out of the slot in the center of the channel (shown in 26246-003 channel sub-assembly)
 - b. Drill & ream the three holes through the shoulder harness lug and channel up to 0.188"-0.190" diameter
 - c. Install an AN3-6A bolt, AN365-1032 nut, and (2) AN960-10 washers in each hole previously drilled & reamed



- d. Locate the 35919-001 placard on the 26243-019 channel approximately as shown in the 26246-003 channel sub-assembly
 - e. Locate both of the 35908-013 straps per the 26246-003 channel sub-assembly
 - i. Note: it is optional to bond the straps to the channel using 3M 1300L or equivalent
 - f. Fit the (4) 35908-007 rubber edges so that when the Velcro straps are used, they will set on the rubber edge and not the metal of the channel (shown in 26246-003 channel sub-assembly)
15. Complete the 26246-001 shoulder harness installation as follows:
- a. Apply commercial sealer to the longeron where the 26243-019 channel will be located and apply sealer to the hardware that will hold the channel so that the longeron will be sealed from corrosion
 - b. Attach the 26246-003 channel sub-assembly to the holes that were drilled in step #8 using (4) AN3-14A bolts, (8) AN960-10 washers, and (4) AN365-1032 nuts
 - i. Note: the shoulder harness lug should be toward the front of the aircraft
 - c. Attach the (2) AN742D12 clamps to the 26243-019 channel using (2) AN3-4A bolts, (2) AN960-10 washers, and (2) AN365-1032 nuts
 - d. Using 3M 1300L or equivalent, bond (2) 35908-005 foam liners on either side of the 26243-015 shoulder harness lug
 - e. Attach the STD1A318-001 lug to the shoulder harness (shown in 26246-001 shoulder harness installation)
 - f. Attach the STD1A318-001 lug to the 26243-015 shoulder harness lug using an AN4-7A bolt, (2) AN960-416 washers, and an AN365-428 nut
16. Trim the rear canopy deck angle as follows:
- a. Locate where the rear canopy will be in relation to the shoulder harness tray and mark the location on the rear canopy
 - b. Add approximately 0.75" fore and aft of the marks in order to have plenty of clearance around the tray
 - c. Leave approximately 0.38" flange on the rear canopy deck in order to maintain rigidity
 - d. Trim the rear canopy deck
17. Calculate and record weight and balance change in accordance with form I-4609RB
- a. The 1-26A, B, C shoulder harness tray kit adds 2lbs. at station 87.0
 - b. Note: this is assuming your ship has a full weight and balance previously done
 - c. If not, follow these steps:
 - i. Go to www.klsoaring.com
 - ii. On the left hand side, under main menu, click downloads
 - iii. Under glider documents, click weight & balance sheets
 - iv. Scroll down until you find 1-26 weight & balance sheet
 - v. Left click on it and it should open a .pdf that you can print out