2024 AMC UNITED AIRLINES CABIN DOOR ESCAPE SLIDE PACK RENDER SAFE

7252



UNITED CABIN DOOR ESCAPE SLIDE PACK RENDER SAFE EVENT SUMMARY:

THIS EVENT WILL SIMULATE THE REMOVAL/INSTALLATION PROCEDURES FOR THE BOEING 767-322 L1/R1 DOOR ESCAPE SLIDE PACK. THE EVENT WILL FOCUS ON SAFETY AND FOLLOWING THE PROCEDURE. THE TECHNICIANS WILL BE JUDGED ON THEIR ABILITY TO FOLLOW THE RENDER SAFE CHECKLIST AND AMM PROCEDURE TO SAFELY REMOVE AND REINSTALL THE SLIDE.

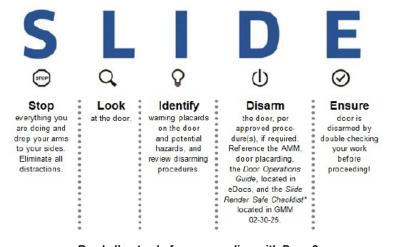
- THE SLIDE INFLATION CYLINDER WILL NOT BE PRESSURIZED DURING THIS EVENT.
- TWO TECHNICIANS AND ONE SAFETY OBSERVER WILL BE REQUIRED (3 PERSON EVENT).
- PRIMARY DOCUMENTS UTILIZED:
 - RENDER SAFE CHECKLIST FORM 46-0035 MUST BE UTILIZED AND FOLLOWED IN CORRECT SEQUENCE. THE EVENT WILL ASSUME DISTRACTIONS ARE IN THE WORK AREA AND ONE SAFETY BARRIER MUST BE INSTALLED ON THE EXTERIOR OF THE DOOR. THE SAFETY OBSERVER MUST REMAIN INDEPENDENT OF TECHNICIAN(S) PERFORMING MAINTENANCE AND ENSURE THAT THE TECHNICIAN(S) PERFORMING MAINTENANCE RENDER THE ESCAPE SLIDE SAFE. THE OBSERVER MUST VERBALLY READ THE RENDER SAFE CHECKLIST QUESTIONS TO THE TECHNICIANS IN QUESTION/ANSWER FORMAT AND ENSURE TECHNICIAN(S) RESPOND. FOR THE PURPOSE OF THIS EVENT, THE OBSERVER WILL BE THE INSPECTOR WHEN THE TASK REQUIRES.
 - AMM 25-66-01 FOR THE ESCAPE SLIDE PACK REMOVAL/INSTALLATION. EACH STEP MUST BE READ OUT LOUD. A 30 SECOND PENALTY WILL BE APPLIED FOR EACH MISSED STEP.
- THE AIRCRAFT NOSE NUMBER, DOOR LOCATION, DATE, STATION INFORMATION AND RELATED TASK INFORMATION WILL BE PROVIDED FOR THE SAFETY OBSERVER AND TECHNICIANS TO VERIFY VERBALLY.
- 3 SETS OF REMOVAL/INSTALLATION INSTUCTIONS WILL BE PROVIDED AND MUST BE UITILIZED DURING THE EVENT. ONE RENDER SAFE CHECKLIST WILL BE PROVIDED FOR THE SAFETY OBSERVER.
- THE FOLLOWING SLIDES PROVIDE DETAILS ON THE RENDER SAFE CHECKLIST AND SHOW THE HIGHLIGHTS OF THE REMOVAL AND INSTALLATION TASK.





To prevent inadvertent escape slide deployments, GMM 02-30-25 requires a Safety Observer (SO) be used when maintenance on a door/hatch slide system is performed. The SO will remain independent of technician(s) performing maintenance and ensure that the technician(s) performing maintenance render the escape slide safe. This checklist, to be controlled and completed by the SO, provides guidance in a challenge/response type format.

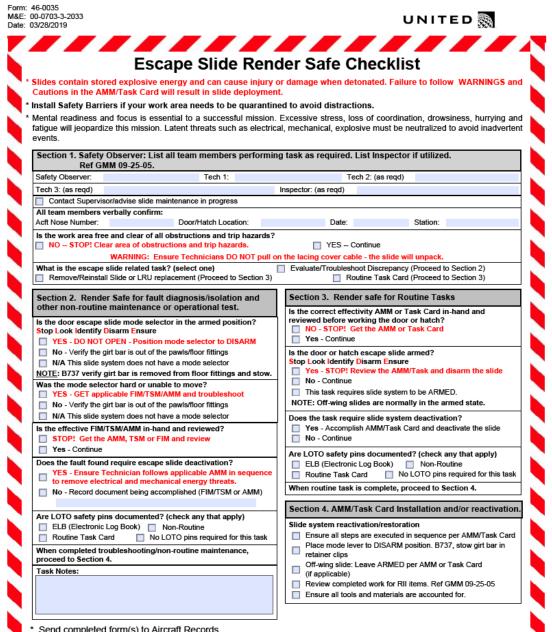
- This checklist will be used whenever maintenance on a door/hatch slide system is performed (troubleshooting, operational checks, slide removal/installation/replacement, etc.) Each door/hatch slide system requires a separate checklist.
- Overwing hatches must not be opened unless routine or non-routine work is being performed. If
 opening of these systems is required for access to other components, then the use of the Escape
 Slide Render Safe Checklist Form 46-0035, along with the SO is required. This policy is not
 applicable to the B737 overwing hatch.
- Form 46-0035 utilizes a question/answer type format. The SO will read questions (out-loud) and ensure technician(s) respond.
- This checklist is generic in nature and supplemental to the primary paperwork being used to
 perform the maintenance task. It should be worked simultaneous with primary paperwork. Sign-offs
 on this checklist does not preclude the sign-offs on the primary maintenance paperwork.
- For Heavy Check (Base Maint) that have a docking and de-docking card for disarming and rearming the slide or off-wing escape system, it is acceptable to use one render safe checklist for each position during the visit. If there is a maintenance task during the visit that requires complete re-arming of the affected position, additional render safe checklist is required.



Read all notes before proceeding with Page 2 Send completed form(s) to Aircraft Records

Page 1 of 2





* Send completed form(s) to Aircraft Records

NOTE: If there is a need to turnover an incomplete task to the next shift, then generate the non-routine items in ELB as necessary. Safety Observer: Ensure written and verbal turnover of work accomplished. Turnover requires new checklist to be accomplished.

Page 2 of 2 ____

THE SAFETY OBSERVER WILL BE THE INSPECTOR FOR THIS EVENT. THE OBSERVER, TECH 1, TECH 2 AND INSPECTOR NAMES MUST BE VERBALIZED AND ACKNOWLEDGED. THE ACFT NOSE NUMBER, DOOR LOCATION, STATION AND ESCAPE SLIDE RELATED TASK INFORMATION WILL BE PROVIDED AT THE EVENT.				
	Section 1. Safety Observer: List all team members performing task as required. List Inspector if utilized. Ref GMM 09-25-05.			ilized.
	Safety Observer:	Tech 1:	Tech 2: (as reqd)	
	Tech 3: (as reqd)	Insp	pector: (as reqd)	
	Contact Supervise	or/advise slide maintenance in progress 🔫 —	JUDGE WILL BE THE SUPERVISOR AND	ACKNOWLEDGE WHEN NOTIFIED.
	All team members verbally confirm:			
	Acft Nose Number:	Door/Hatch Location:	Date: Stat	ion:
	Is the work area free and clear of all obstructions and trip hazards?			
	NO STOP! Clear area of obstructions and trip hazards.			
	WARNING: Ensure Technicians DO NOT pull on the lacing cover cable - the slide will unpack.			
	What is the escape slide related task? (select one) Evaluate/Troubleshoot Discrepancy (Proceed to Section 2)			
	Remove/Reinstall	Slide or LRU replacement (Proceed to Section 3)	Routine Task Card (Proc	eed to Section 3)
THE SAFETY OBSERVER MUST READ EACH QUESTION OUT-OUD AND ENSURE THE TECHNICIANS RESPOND. THE OBSERVER WILL CHECK EACH BOX AS THEY ARE COMPLETED WITH A GREASE PENCIL PROVIDED. THE OBSERVER, TECH 1, 2, INSPECTOR, ACFT NOSE NUMBER, DOOR LOCATION, DATE AND STATION BLOCKS ARE VERBAL ONLY AND NOT REQUIRED TO BE WRITTEN ON THIS FORM. 15 SECOND PENALTY FOR EACH BLOCK CHECK BOX VIOLATION.				

THE SLIDE RELATED TASK PROVIDED AT THE EVENT AND ANSWERED IN SECTION 1 OF THE CHECKLIST DETERMINES THE NEXT STEP. EXAMPLE: FOR A REMOVE/REINSTALL SLIDE TASK, FOLLOW SECTION 3 TO RENDER SAFE. A NON-ROUTINE WILL BE PROVIDED AT THE EVENT TO DOCUMENT LOTO SAFETY PIN INSTALLATIONS. EVERY BLOCK MUST BE READ OUT-LOUD BY THE OBSERVER AND RESPONSE CONFIRMED BY THE TECHNICIANS.

Section 2. Render Safe for fault diagnosis/isolation and other non-routine maintenance or operational test.

Is the door escape slide mode selector in the armed position? Stop Look Identify Disarm Ensure

YES - DO NOT OPEN - Position mode selector to DISARM

No - Verify the girt bar is out of the pawls/floor fittings

N/A This slide system does not have a mode selector

NOTE: B737 verify girt bar is removed from floor fittings and stow.

Was the mode selector hard or unable to move?

YES - GET applicable FIM/TSM/AMM and troubleshoot

No - Verify the girt bar is out of the pawls/floor fittings

N/A This slide system does not have a mode selector

Is the effective FIM/TSM/AMM in-hand and reviewed?
STOP! Get the AMM, TSM or FIM and review

Yes - Continue

Does the fault found require escape slide deactivation?

YES - Ensure Technician follows applicable AMM in sequence

to remove electrical and mechanical energy threats.

No - Record document being accomplished (FIM/TSM or AMM)

Are LOTO safety pins documented? (check any that apply)

ELB (Electronic Log Book) 🔲 Non-Routine

Routine Task Card No LOTO pins required for this task

When completed troubleshooting/non-routine maintenance, proceed to Section 4.

Task Notes:

SECTION 4: DO NOT CHECK THE OFF-WING SLIDE BOX SINCE EACH EVENT WILL ONLY APPLY TO ENTRY/SERVICE DOORS. CHECKING THIS BOX WILL RESULT IN A 15 SECOND PENALTY. Section 3. Render safe for Routine Tasks

Is the correct effectivity AMM or Task Card in-hand and reviewed before working the door or hatch? NO - STOP! Get the AMM or Task Card

Yes - Continue

Is the door or hatch escape slide armed? Stop Look Identify Disarm Ensure Yes - STOP! Review the AMM/Task and disarm the slide No - Continue This task requires slide system to be ARMED. NOTE: Off-wing slides are normally in the armed state. Does the task require slide system deactivation? Yes - Accomplish AMM/Task Card and deactivate the slide No - Continue

Are LOTO safety pins documented? (check any that apply)
ELB (Electronic Log Book) Non-Routine

Routine Task Card No LOTO pins required for this task

When routine task is complete, proceed to Section 4.

Section 4. AMM/Task Card Installation and/or reactivation.

Slide system reactivation/restoration

- Ensure all steps are executed in sequence per AMM/Task Card
 Place mode lever to DISARM position. B737, stow girt bar in retainer dise.
- retainer clips
 Off-wing slide: Leave ARMED per AMM or Task Card
- (if applicable)
 Review completed work for RII items. Ref GMM 09-25-05
- Ensure all tools and materials are accounted for.



United Airlines Entry/Service Door Render Safe

BOEING

767 Aircraft Maintenance Manual TASK 25-66-01-004-001

2. Escape Slide Pack Removal (Figure 401 or Figure 402)

NOTE: This procedure is a scheduled maintenance task.

A. Procedure

WARNING: AN INADVERTENT SLIDE DEPLOYMENT CAN RESULT IN INJURY OR DEATH TO PERSONS AND DAMAGE TO EQUIPMENT. GMM 02-30-25 REQUIRES YOU RENDER THE ESCAPE SLIDE SAFE PER THE AMM AND UTILIZE THE ESCAPE SLIDE RENDER SAFE CHECKLIST FORM 46-0035.

- (1) Obtain and review the Escape Slide Render Safe Checklist Form 46-0035.
- (2) Place one safety barrier in front of the exterior of the door and install the DO NOT ENTER sign on the barrier to ensure a safe and sterile work environment.
- (3) Place DO NOT OPERATE tag number 1 over the exterior door handle.
- (4) Verify the entry/service door is closed.
- (5) Place DO-NOT-OPERATE tag number 2 above or adjacent to the interior handle for the entry/service doors.
- (6) On the upper door liner, squeeze the buttons together to release the hinge pins. With caution, lower the door liner.

WARNING: MAKE SURE THAT YOU INSTALL THE GROUND LOCK FOR THE ENTRY DOOR. WITHOUT THE GROUND LOCK INSTALLED, ACCIDENTAL OPERATION OF THE DOOR CAN CAUSE INJURY OR DAMAGE.

- (7) Install the entry/service door ground lock pin P/N A52008-14 in the upper roller guide (Figure 400).
- (8) Verify the arm/disarm handle is in the DISARMED position.
- (9) Make sure that the yellow flag indicators for the girt bar (Figure 401) are not shown in the windows at the bottom of the door.
- (10) Remove the bustle (Figure 401) and place the bustle away from the immediate work area.
- (11) Remove the safety pin from the stowage pocket on the escape slide pack.

WARNING: INSTALL THE SAFETY PIN IN THE INFLATION CYLINDER REGULATOR. WITHOUT THE SAFETY PIN INSTALLED, THE ESCAPE SLIDE OR SLIDE-RAFT CAN INFLATE ACCIDENTALLY AND CAUSE INJURY OR DAMAGE.

(12) Install safety pin into the inflation cylinder regulator (Figure 401).

CAUTION: DO NOT PULL ON THE RELEASE CABLES. A FORCE ON THE CABLES CAN CAUSE THE ESCAPE SLIDE PACK TO RELEASE FROM THE DOOR.

CAUTION: EXERCISE CARE WHEN HANDLING THE SLIDE PACK TO ENSURE THE RELEASE CABLES ARE NOT PULLED OUT OR DETACHED FROM THE PACKBOARD SIDE CHANNELS.

(13) Remove the girt bar [3] from the girt bar carrier (Figure 403).

WARNING: OBEY THE PROCEDURE TO TWIST THE GIRT STRAPS WHEN YOU INSTALL THE GIRT FITTING IN THE DOOR OPENING. IF THE GIRT STRAP IS NOT IN THE CORRECT POSITION, THE ESCAPE SLIDE CAN OPERATE INCORRECTLY. IF THE ESCAPE SLIDE OPERATES INCORRECTLY, INJURY TO PERSONNEL CAN OCCUR.

(14) Attach the girt bar [3] to the escape slide pack [1] with the retainer straps (View B-B Figure 402).
(15) Turn the deployment bar down to touch the floor (View A-A Figure 402).

(16) Release the reusable safety strap for the latch handle (View A, Figure 404).

(17) Hold the top of the escape slide pack [1] and turn the latch handle to the unlocked position (<u>Figure 402</u>).
 (18) With two persons, carefully lower the escape slide pack down and inboard until it is on the floor.
 NOTE: It is not necessary to lift the escape slide pack.

(19) On the non-routine provided, sign block 9 stating the applicable entry/service door slide pack has been removed.



United Airlines Entry/Service Door Render Safe

BOEING

767 Aircraft Maintenance Manual TASK 25-66-01-404-072

3. <u>Escape Slide Pack Installation</u> (Figure 401, Figure 402, Figure 403, Figure 404 or <u>Figure 405</u>) <u>NOTE:</u> This procedure is a scheduled maintenance task.

A. Procedure

WARNING: AN INADVERTENT SLIDE DEPLOYMENT CAN RESULT IN INJURY OR DEATH TO PERSONS AND DAMAGE TO EQUIPMENT. GMM 02-30-25 REQUIRES YOU RENDER THE ESCAPE SLIDE SAFE PER THE AMM AND UTILIZE THE ESCAPE SLIDE RENDER SAFE CHECKLIST FORM 46-0035.

- (1) Make sure the ground lock pin P/N A52008-14 for the entry/service door is installed in the upper roller guide.
- (2) Turn the deployment bar down to touch the floor (View A-A, Figure 402).
- (3) View the inflation cylinder regulator gauge pressure (it is acceptable for the gauge to be in the red band/0 PSI range for this event installation, <u>Figure 401</u>).

CAUTION: MAKE SURE THAT YOU CORRECTLY ENGAGED DEPLOYMENT CABLES INTO THE DEPLOYMENT CABLE RETRACTORS. MAKE SURE THAT THE DEPLOYMENT CABLES ARE IN THE CORRECT POSITION. IF YOU DO NOT OBEY, DAMAGE TO EQUIPMENT CAN OCCUR.

- (4) Set the escape slide pack (1) inboard face down (with the cover on the floor and the pack board on top).
- (5) Move the escape slide pack (1) in front of the entry/service door with the lower fittings adjacent to the door.
- (6) Move the escape slide pack (1) outboard and align the lower fittings with the mounting brackets on the door.
- (7) Continue to move the escape slide pack (1) outboard until the two lower fittings are engaged with the brackets on the door.

<u>NOTE:</u> You can move the escape slide pack (1) from side to side on its face to get the lower fitting height necessary to engage the door brackets. It is not necessary to lift the escape slide pack (1).

- (8) Lift the top of the escape slide pack (1) up and outboard.
- (9) Make sure the guide pin on the escape slide pack (1) aligns with the track on the door.

(10) Hold the top of the escape slide pack (1) tightly against the latch. Turn the latch handle to the locked position (Figure 402).

- (11) Secure the reusable safety strap for the latch handle by attaching the snap (View A, <u>Figure 404</u>). NOTE: The safety strap holds the latch handle in the locked position.
- (12) Turn the deployment bar up to the loaded position (View A-A, Figure 402).
- (13) Make sure the deployment cables are in the correct position as shown in View A-A, Figure 402. Move the FWD and AFT white rubber debris covers down to mate with the deployment cable retractors.

Observer/Inspector verify step.

CAUTION: DO NOT PULL ON THE RELEASE CABLES. A FORCE ON THE CABLES CAN CAUSE THE ESCAPE SLIDE PACK TO RELEASE FROM THE DOOR.

(14) Release the retainer straps and disconnect the girt bar from the escape slide pack (1). Resecure both snaps for the retainer straps.

WARNING: MAKE SURE THAT YOU INSTALL THE GIRT BAR IN THE GIRT BAR RETAINER. IF YOU DO NOT INSTALL THE GIRT BAR IN THE GIRT BAR RETAINERS, ACCIDENTAL INFLATION OF THE ESCAPE SLIDE CAN OCCUR. THIS CAN CAUSE INJURIES TO PERSONS OR DAMAGE TO EQUIPMENT.



(15) Install the girt bar in the girt bar carrier. Observer/Inspector verify step.

(16) Turn the girt bar locks to align the arrows as shown (View B, Figure 403). Observer/Inspector verify step.

- (a) When you turn the girt bar lock, make sure you can feel the ball plunger in the lock operate correctly with positive detent action between the unlocked and locked positions.
- (b) If the girt bar lock does not operate correctly, adjust the ball plunger in the lock.
- (17) Do a check on the round, white, silicone bumper (Figure 405) on the forward side of the pack board as follows:
- (a) Make sure the clearance between the bumper and the forward surface of the pack board channel is 0.15 to 0.21 inch (3.8 to 5.3 mm). Observer/Inspector verify step.
- (b) If the clearance is not correct, adjust the bumper by loosening the jam nut and rotating the bumper to achieve the correct clearance. Resecure the jam nut and safety the bumper to the hole in the attaching bracket.

WARNING: REMOVE THE SAFETY PIN FROM THE INFLATION CYLINDER REGULATOR. MAKE SURE THAT THE SAFETY PIN IS NOT DAMAGED OR BROKEN. THE ESCAPE SLIDE OR SLIDE-RAFT WILL NOT INFLATE IN AN EMERGENCY IF THE SAFETY PIN OR PART OF THE SAFETY PIN IS IN THE REGULATOR.

- (18) Remove the safety pin from the inflation cylinder regulator. Observer/Inspector verify step.
- (19) Put the safety pin into the pocket on the escape slide pack (1). Observer/Inspector verify step.
- (20) Make sure a DYMO (or equivalent) tape label indicating date of last overhaul (mm/yy) is installed in proximity to the pressure gauge face. Observer/Inspector verify step.

CAUTION: DO NOT PULL ON THE RELEASE CABLES. A FORCE ON THE CABLES CAN CAUSE THE ESCAPE SLIDE PACK TO RELEASE FROM THE DOOR.

(21) Visually check and verify the girt bar is locked into the girt bar carrier. Observer/Inspector verify step.(22) Install the bustle (2).

- (23) Push the round green arm/disarm handle release button in and move the arm/disarm handle to the ARMED position.
- (24) Make sure the yellow indicator flags for the girt bar completely fill the windows at the bottom of the bustle (2). Observer/Inspector verify step.
- (25) Move the arm/disarm handle to the DISARMED position.
- (26) Make sure the yellow indicator flags for the girt bar are not shown in the windows at the bottom of the bustle (2). Observer/Inspector verify step.
- (27) Remove the ground lock pin for the entry/service door. Observer/Inspector verify step.
- (28) Return the ground lock pin to the correct location in the toolbox.
- (29) Carefully raise the upper door liner and secure the hinge pins into the door frame backet.
- (30) Remove DO NOT OPERATE tag number 2 from the interior handle for the entry/service door. Return the tag to the matching location in the toolbox.
- (31) Remove DO NOT OPERATE tag number 1 from the exterior handle for the entry/service door. Return the tag to the matching location in the toolbox.
- (32) Remove the DO NOT ENTER sign and safety barrier from the door exterior area. Return the barrier and sign to the workstation.
- (33) On the non-routine provided, complete block 17 with a signature for the slide installation (inspector signature required for installation).



Figure 400: Entry/Service Door Ground Lock Pin.





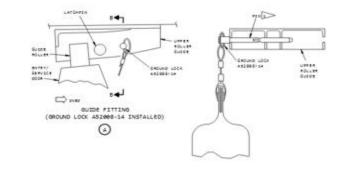




Figure 401: Entry/Service Door Escape System.

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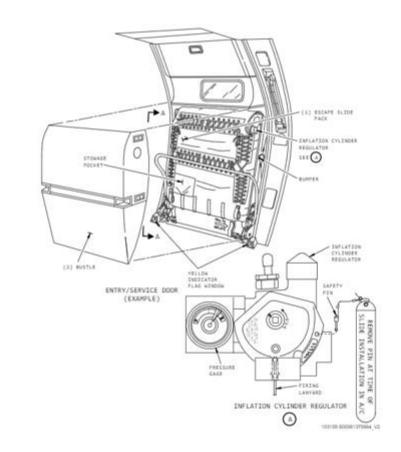




Figure 402: Entry/Service Door Escape System.

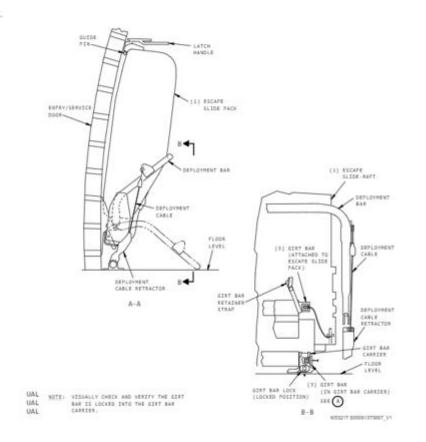




Figure 403: Entry/Service Door Escape System.

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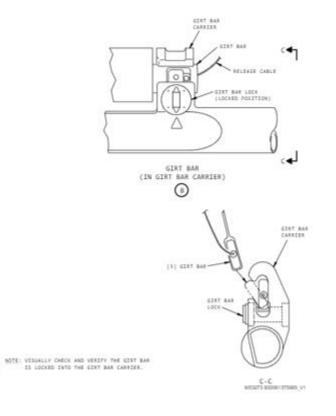
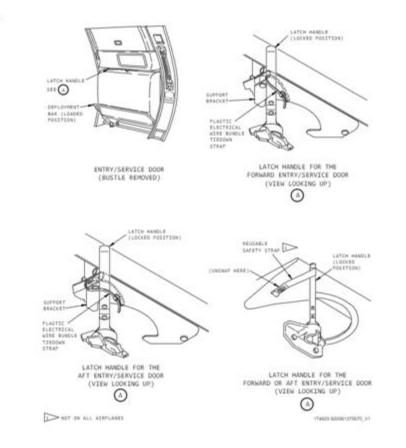
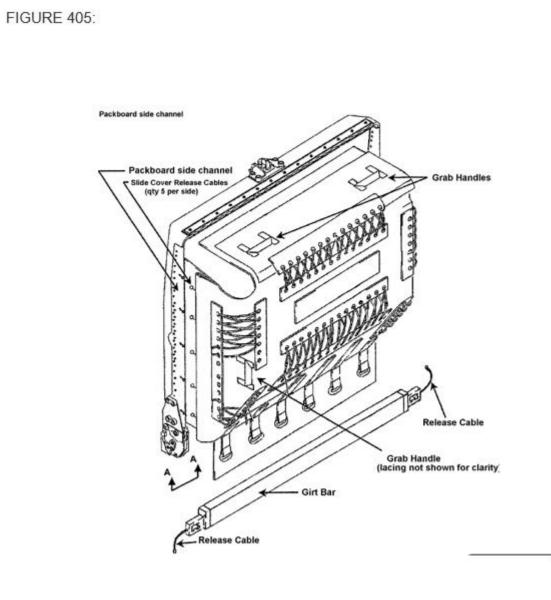




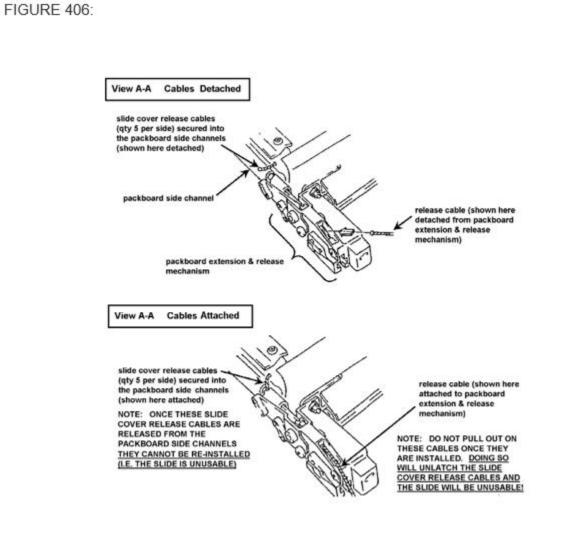
Figure 404: Latch Handle Strap Installation













VERIFY THE DOOR SLIDE IS IN THE DISARMED POSITION.





UPPER ROLLER GUIDE MUST BE PINNED TO PREVENT THE DOOR FROM RISING WHEN THE WEIGHT OF THE SLIDE IS REMOVED. INSERT THE SAFETY PIN WITH THE RED STREAMER EXPOSED.









REMOVE THE DOOR BUSTLE.





REMOVE THE SAFETY PIN FROM THE SLIDE POUCH AND INSTALL THE PIN THE REGULATOR.





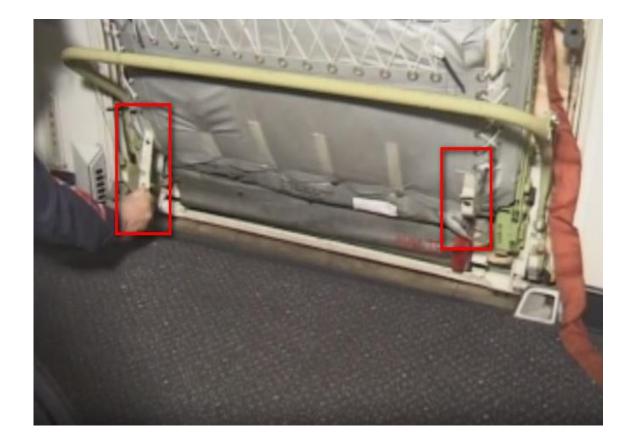


ROTATE THE TWO LOCKS ON THE GIRT BAR CARRIER TO THE UNLOCKED POSITION





UNDO THE SNAPS ON THE 2 STRAPS. REMOVE THE GIRT BAR AND SECURE IT WITH THE STRAPS.









LOWER THE DEPLOYMENT BAR.





TWO PERSONS ARE NECESSARY TO REMOVE/REINSTALL THE ESCAPE SLIDE PACK. THE WEIGHT OF THE SLIDE PACK IS APPROXIMATELY 146 LBS (66KGS).





WHILE SUPPORTING THE SLIDE, UNDO THE SAFETY HANDLE YELLOW SAFETY STRAP AND ROTATE THE HANDLE TO REMOVE THE SLIDE. CAREFULLY LOWER THE SLIDE.







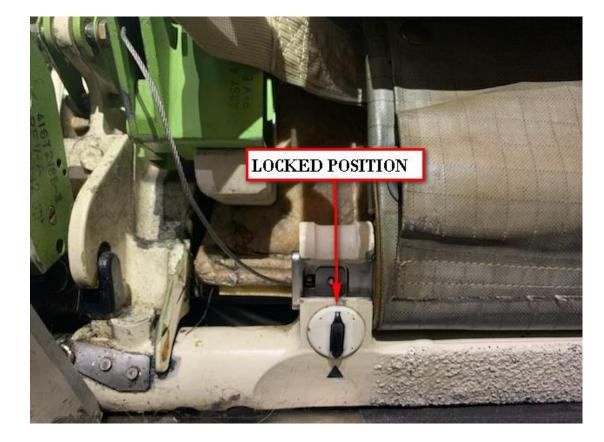
SLIDE REINSTALLATION: RAISE THE SLIDE AND SECURE IT IN PLACE. ROTATE THE SAFETY HANDLE AND SECURE THE YELLOW STRAP.





REMOVE THE GIRT BAR FROM THE RETAINING STRAPS AND INSTALL THE GIRT BAR INTO THE GIRT BAR CARRIER. ROTATE THE LOCKS TO THE LOCKED POSITION, ARROW UP.







CHECK THE CLEARANCE BETWEEN THE BUMPER AND PACKBOARD CHANNEL ARE WITHIN AMM LIMITS.





REMOVE THE SAFETY LOCK PIN FROM THE REGULATOR VALVE. ROLL IT UP AND INSTALL IT IN THE SLIDE POUCH, LEAVING A SMALL PART OF THE STREAMER EXPOSED.







PERFORM AN OPERATIONAL CHECK OF THE ARMED/DISARM MECHANISM PER THE AMM AND VERIFY THE YELLOW GIRT BAR INDICATOR IS VISIBLE.





REMOVE THE LOCKPIN FROM THE UPPER ROLLER GUIDE.







