

WING LANDING GEAR TRUCK MECHANICAL LOCK – REMOVAL/INSTALLATION

1. General

- A. This procedure contains two tasks:
 - (1) The removal of the truck mechanical lock on the wing landing gear.
 - (2) The installation of the truck mechanical lock on the wing landing gear.
- B. The truck mechanical lock is installed on the inboard side of the shock strut on the wing landing gear. The removal and the installation procedures are the same for the two mechanical locks.

TASK 32-11-23-004-001

2. The Truck Mechanical Lock Removal on the Wing Landing Gear (Fig. 401)

- A. References
 - (1) 09-11-00/201, Towing
 - (2) 32-00-30/201, Landing Gear Door Locks
 - (3) 32-11-07/201, Wing Gear Side Strut Lower Spindle
 - (4) IPC 32-11-23 Fig. 1
- B. Access
 - (1) Location Zone
 - 735 Wing Landing Gear, LH
 - 745 Wing Landing Gear, RH
- C. Procedure

S 864-024

- (1) Install the ground locks in all landing gear (Ref 09-11-00/201).

S 494-025

WARNING: YOU MUST CAREFULLY DO THE STEPS IN THE TASK BELOW TO INSTALL THE DOOR LOCKS ON THE LANDING GEAR DOORS. THE DOORS CAN CLOSE QUICKLY IF YOU DO NOT INSTALL THE DOOR LOCKS CORRECTLY. THIS CAN CAUSE INJURY TO PERSONS OR DAMAGE TO EQUIPMENT.

- (2) Do this task: "Installation of the Door Locks on the Wing Landing Gear" (Ref 32-00-30/201).

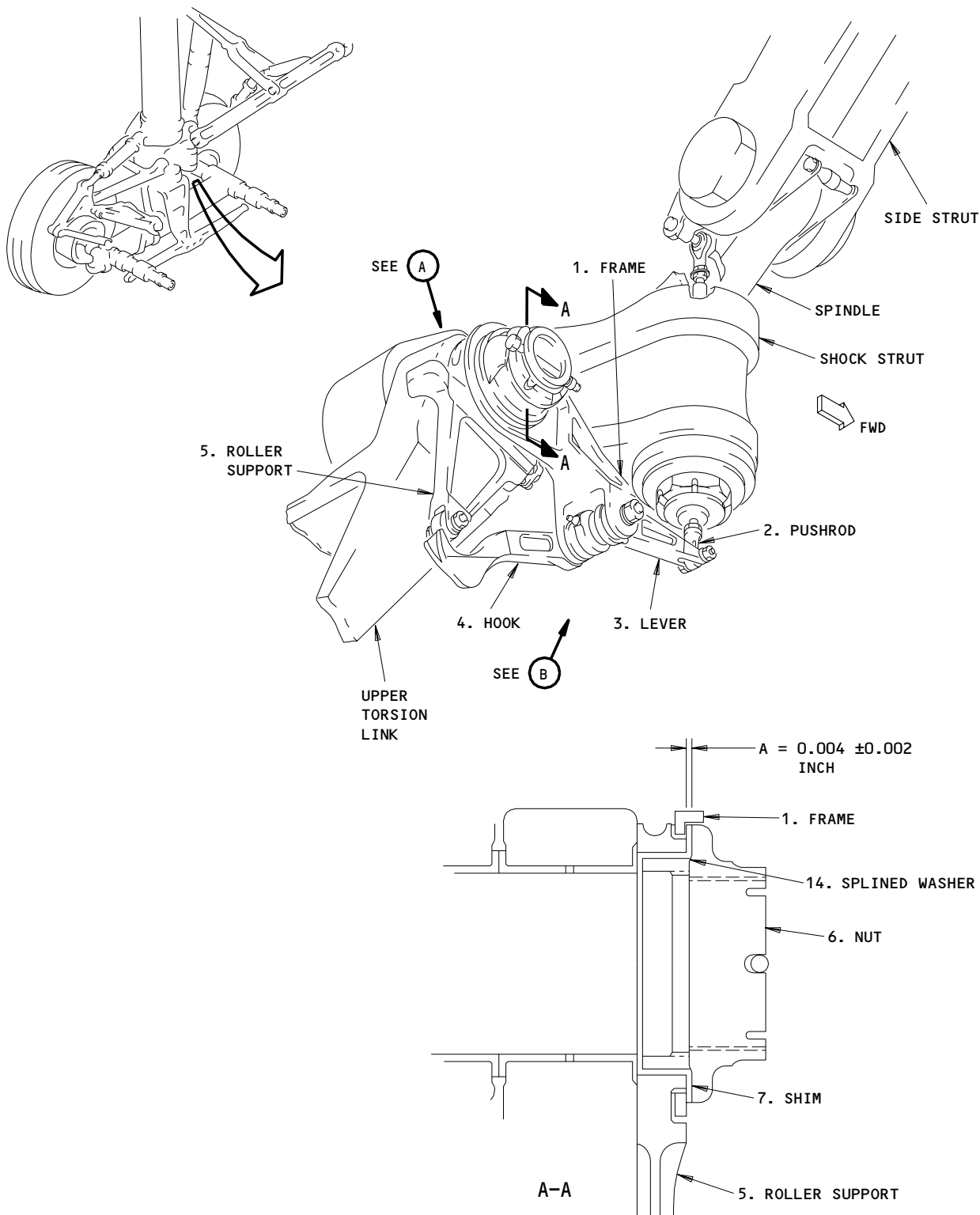
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Wing Gear Truck Mechanical Lock Installation
Figure 401 (Sheet 1)

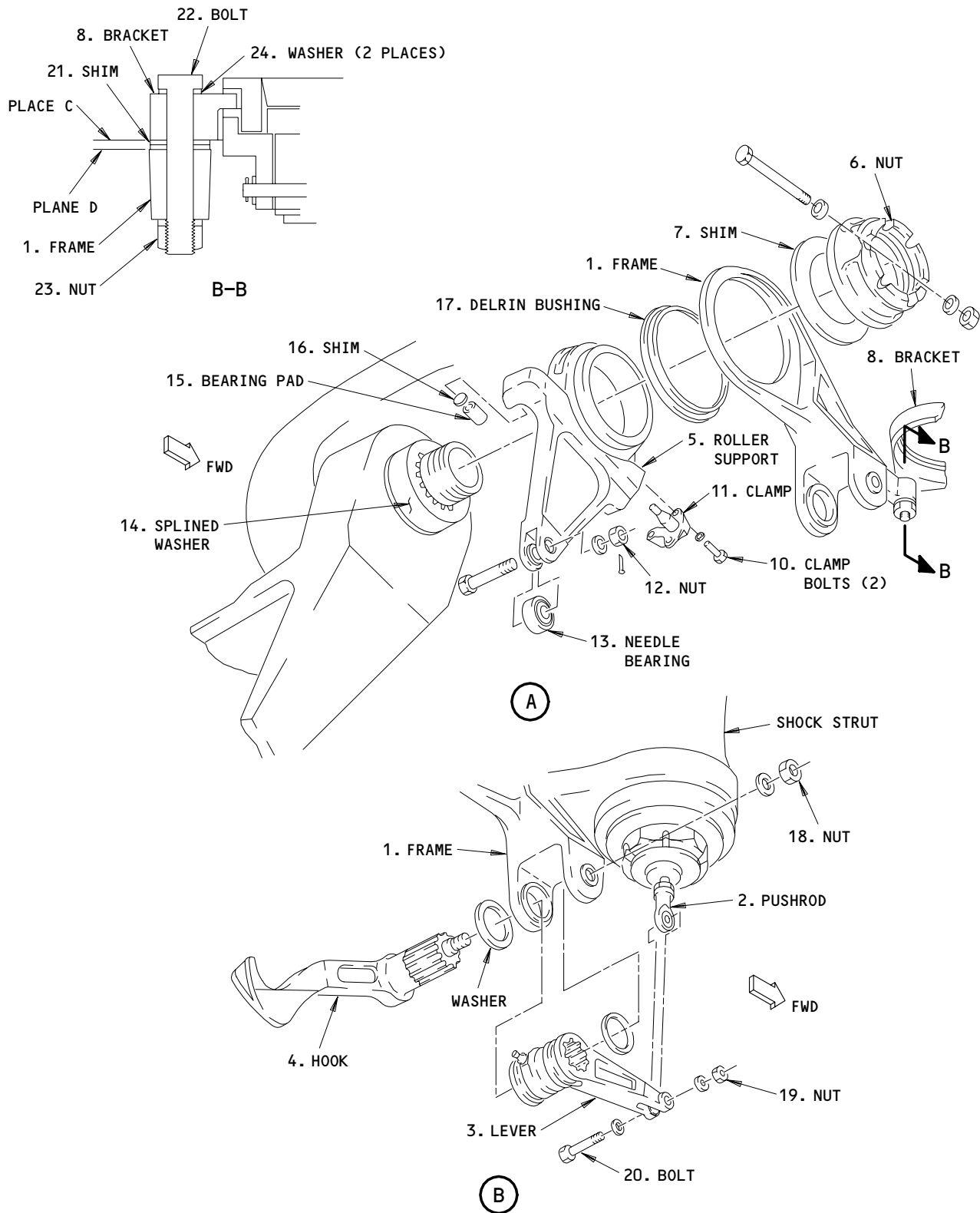
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Figure 401 (Sheet 2)

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S 494-032

- (3) Do this task: "Installation of the Door Locks on the Body Landing Gear" (Ref 32-00-30/201).

S 034-027

- (4) Remove the bolt (20) and disconnect the lever (3) from the lower end of the pushrod (2).

S 034-028

- (5) Remove the nut (18).

S 034-030

- (6) Remove the hook (4) and the lever (3) from the frame (1).

S 034-006

- (7) Remove the bolt (22) from the spindle bracket (8).

NOTE: Refer to the removal procedure of the lower spindle (Ref 32-11-07/201) if the bolt (22) touches the shock strut cylinder.

S 034-007

- (8) Remove the nut (6) and the shim (7) from the torsion link pin.

S 034-008

- (9) Remove the frame (1).

S 034-009

- (10) Loosen clamp bolts (10) and remove the roller support assembly (5) and the delrin bushing (17).

TASK 32-11-23-404-010

3. The Truck Mechanical Lock Installation on the Wing Landing Gear (Fig. 401)

A. Standard Tools and Equipment

- (1) Thickness gages, 0.002 to 0.25 inch

B. Consumable Materials

- (1) C00259 Type 1 Epoxy Primer - BMS 10-11

C. References

- (1) 32-00-30/201, Landing Gear Door Locks
(2) 32-11-23/601, Wing Gear Truck Mechanical Lock

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(3) IPC 32-11-23 Fig. 1

D. Access

(1) Location Zone

735 Wing Landing Gear, LH
745 Wing Landing Gear, RH

E. Procedure

S 434-011

(1) Install the shim (16) and the bearing pad (15) into the roller support (5).

S 434-012

(2) Move the roller support (5), the delrin bushing (17) and the frame (1) to the splined washer (14).

S 434-013

(3) Install the shim (7) and the nut (6).

S 224-029

(4) Tighten the nut (6) 1920 to 2280 pound-inches.

(a) Measure dimension A.

(b) Add or decrease the laminations on the shim until the dimension A is 0.004 (\pm 0.002 inch).

NOTE: If the clearance changes, a maximum clearance of 0.012 is permitted if the smallest clearance is not lower than 0.006.

S 624-031

(5) Apply a layer of the epoxy primer (BMS 10-11, type 1) to the shim (7).

(a) Install the shim (7).

S 434-016

(6) Tighten nut (6) 1920 to 2280 pound-inches and install the cross bolt.

S 224-017

(7) Keep the planes C and D parallel in 0.005 inch.

(a) If it is necessary, measure the clearance and the shim before you install the bolt.

S 434-018

(8) Install the shim (21), the washers (24), and the bolt (22).

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S 434-034

- (9) Tighten the nut 540 to 600 pound-inches.
- (a) If a cotter pin is not necessary, loosen the nut and torque 120 to 180 pound-inches.
 - (b) If a cotter pin is necessary, loosen the nut to the nearest castellation and install the cotter pin.

S 434-019

- (10) Set the lever (3) in the frame (1) and install the hook assembly (4).

S 434-020

- (11) Tighten the nut (18) 36 to 60 pound-inches.
- (a) Loosen the nut to the nearest castellation and install the cotter pin.

S 434-021

- (12) Install the clamp (11).
- (a) Tighten bolts (10) 12 to 36 pound-inches.
 - (b) Lockwire after adjustment of the truck lock.

S 224-022

- (13) Adjust and do a test on the mechanical truck lock (Ref 32-11-23/601).

S 094-026

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- (14) Do this task: "Removal of the Door Locks from the Wing Landing Gear" (Ref 32-00-30/201).

S 094-033

- (15) Do this task: "Removal of the Door Locks from the Body Landing Gear" (Ref 32-00-30/201).

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