

AUXILIARY DRAG STRUT CARDAN OF THE NOSE LANDING GEAR - REMOVAL/INSTALLATION

EFFECTIVITY: ALL

1. General

- A. This section gives the procedures to remove and install the cardan of the auxiliary drag strut of the nose landing gear.
- B. The procedures in this section are given in the sequence below. The tasks identified with (◆) are part of the Scheduled Maintenance Requirements Document (SMRD).

TASK NUMBER	DESCRIPTION	EFFECTIVITY
32-20-09-000-801-A	AUXILIARY DRAG STRUT CARDAN OF THE NOSE LANDING GEAR - REMOVAL	ALL
32-20-09-400-801-A	AUXILIARY DRAG STRUT CARDAN OF THE NOSE LANDING GEAR - INSTALLATION	ALL

TASK 32-20-09-000-801-A

EFFECTIVITY: ALL

2. AUXILIARY DRAG STRUT CARDAN OF THE NOSE LANDING GEAR - REMOVAL

A. General

- (1) This procedure gives the instructions to remove the auxiliary drag strut cardan of the nose landing gear.

B. References

REFERENCE	DESIGNATION
AMM TASK 07-10-00-500-801-A/200	-
AMM TASK 29-10-00-860-802-A/200	HYDRAULIC SYSTEM - PRESSURIZATION WITH EMDP
AMM TASK 32-00-01-910-801-A/200	LG SAFETY PIN - INSTALLATION AND REMOVAL
AMM TASK 32-00-02-910-801-A/200	SAFETY PIN OF THE NLG DOORS SOLENOID VALVE - INSTALLATION AND REMOVAL
S.B.145-32-0036	-

C. Zones and Accesses

Not Applicable

D. Tools and Equipment

Not Applicable

E. Auxiliary Items

Not Applicable

F. Consumable Materials

Not Applicable

G. Expandable Parts

Not Applicable

H. Persons Recommended

QTY	FUNCTION	PLACE
1	Does the task	RH or LH Nose Landing Gear
1	Helps the other technician	RH or LH Main Landing Gear

I. Preparation

SUBTASK 841-002-A

- (1) For aircraft PRE-MOD. [S.B.145-32-0036](#), make sure that the pressure in hydraulic system 1 is fully released [AMM TASK 29-10-00-860-802-A/200](#).
- (2) For aircraft POST-MOD. [S.B.145-32-0036](#), install the safety pin to the NLG doors solenoid valve [AMM TASK 32-00-02-910-801-A/200](#).

- (3) On the circuit breaker panel, open the ELEC PUMP 1 circuit breaker and attach a DO-NOT-CLOSE tag to it.
- (4) Make sure that the safety pins of the landing gears are installed [AMM TASK 32-00-01-910-801-A/200](#).
- (5) Lift the aircraft on jacks [AMM TASK 07-10-00-500-801-A/200](#).

J. Removal ([Figure 401](#))

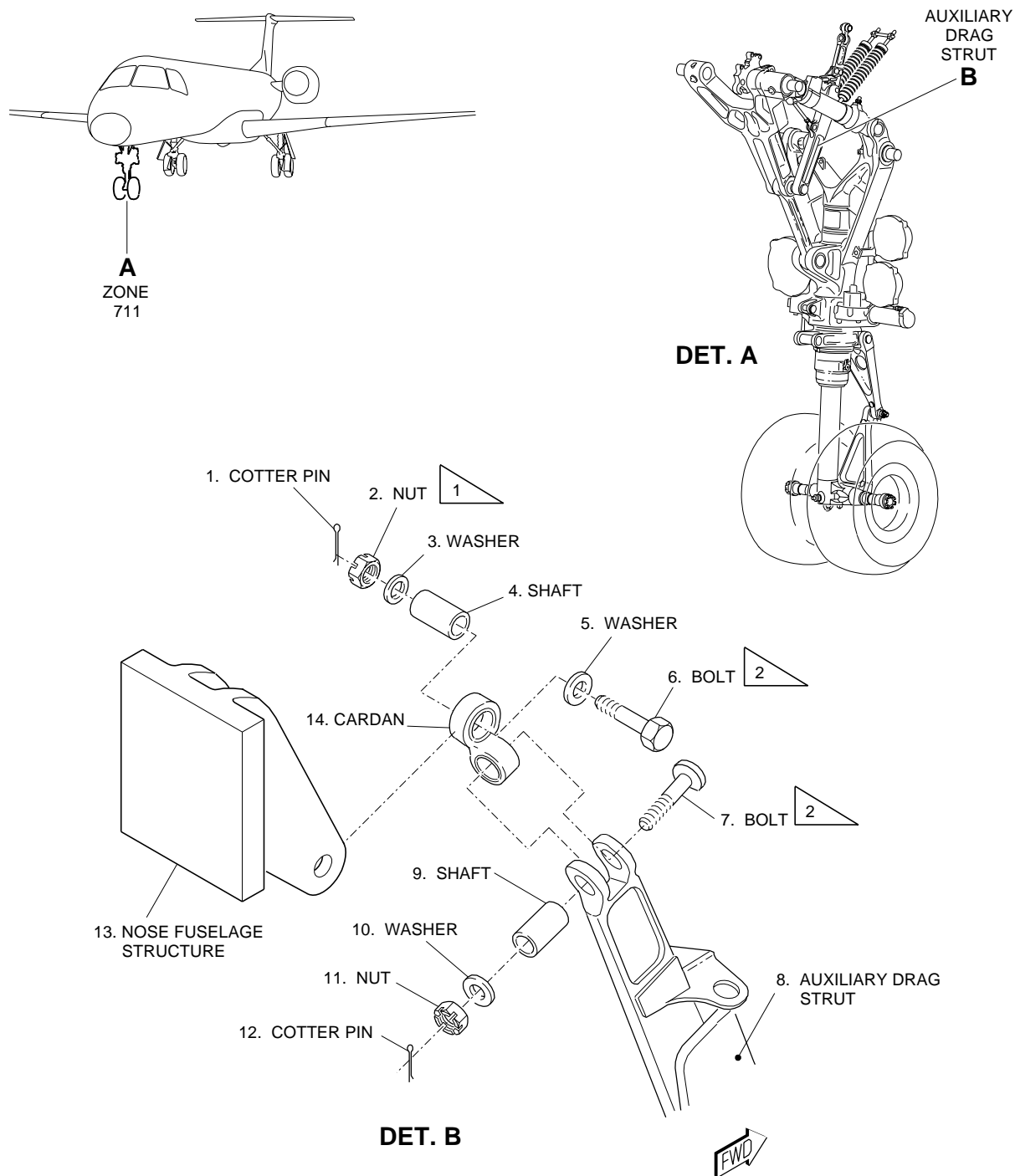
SUBTASK 020-002-A

- (1) To remove the cardan (14), do as follows:
 - (a) Release the cardan (14) from the upper auxiliary drag strut (8) as follows:
 - 1 Remove the cotter pin (12), nut (11), washer (10), shaft (9), and bolt (7).
 - (b) Release the cardan (14) from the nose fuselage structure (13) as follows:
 - 1 Remove the cotter pin (1), nut (2), washers (3) and (5), shaft (4), and bolt (6).
 - (c) Remove the cardan (14).

EFFECTIVITY: ALL

Auxiliary Drag Strut Cardan of the Nose Landing Gear - Removal/Installation

Figure 401



1 TORQUE: 6 TO 7.45 N.m (53 TO 66 lb.in)

2 APPLY SEALANT COR-BAN 27 L

EM145AMM320495A.DGN

TASK 32-20-09-400-801-A

EFFECTIVITY: ALL

3. AUXILIARY DRAG STRUT CARDAN OF THE NOSE LANDING GEAR - INSTALLATION

A. General

- (1) This procedure gives the instructions to install the auxiliary drag strut cardan of the nose landing gear.

B. References

REFERENCE	DESIGNATION
AMM TASK 07-10-00-500-802-A/200	-
AMM TASK 32-00-02-910-801-A/200	SAFETY PIN OF THE NLG DOORS SOLENOID VALVE - INSTALLATION AND REMOVAL
AMM TASK 32-30-00-700-801-A/500	EXTENSION AND RETRACTION SYSTEM - OPERATIONAL CHECK
S.B.145-32-0036	-
TASK 32-34-00-720-001-A	-

C. Zones and Accesses

Not Applicable

D. Tools and Equipment

ITEM	DESCRIPTION	PURPOSE	QTY
Commercially available	Torque Wrench, 6 to 7.45 N.m (53 to 66 lb.in.)	To apply torque	

E. Auxiliary Items

ITEM	DESCRIPTION	PURPOSE	QTY
Commercially available	Rubber Gloves resistant to Phosphate Ester-Base Fluids	For protection of the hands	2
Commercially available	Rubber Goggles resistant to Phosphate Ester-Base Fluids	For protection of the eyes	2

F. Consumable Materials

SPECIFICATION (BRAND)	DESCRIPTION	QTY
MEP09-075	Corrosion Inhibitive Compound COR-BAN 27L	AR
MS 24665-153	Cotter pin	2

G. Expandable Parts

Not Applicable

H. Persons Recommended

QTY	FUNCTION	PLACE
1	Does the task	RH or LH Nose Landing Gear
1	Helps the other technician	RH or LH Main Landing Gear

I. Installation (Figure 401)

SUBTASK 420-002-A

WARNING: DO NOT GET COR-BAN 27L IN YOUR MOUTH OR EYES, OR ON YOUR SKIN. DO NOT BREATHE THE FUMES FROM COR-BAN 27L. PUT ON A PROTECTIVE SPLASH GOGGLE AND GLOVES WHEN YOU USE COR-BAN 27L. COR-BAN 27L IS A TOXIC MATERIAL.

- (1) To install the cardan (14), do as follows:
 - (a) Install the cardan (14) on the auxiliary drag strut (8) as follows:
 - 1 Apply COR-BAN 27L to the bolt (7).
 - 2 Install the bolt (7), washer (10), shaft (9), nut (11), and cotter pin (12).
 - (b) Install the cardan (14) on the nose fuselage structure (13) as follows:
 - 1 Apply COR-BAN 27L to the bolt (6).
 - 2 Install the bolt (6), washers (5) and (3), shaft (4), and nut (2).
 - 3 Apply a torque of 6 to 7.5 N.m (53 to 66 lb.in) to the nut (2).
 - 4 Install the cotter pin (1).

J. Follow-on

SUBTASK 842-002-A

- (1) For aircraft POST-MOD. [S.B.145-32-0036](#), remove the safety pin from the NLG doors solenoid valve [AMM TASK 32-00-02-910-801-A/200](#).
- (2) Energize the aircraft.
- (3) On the circuit breaker panel, remove the DO-NOT-CLOSE tag from the ELEC PUMP 1 circuit breaker and close it.
- (4) Remove the safety pins from the landing gears.
- (5) Do an operational check of the MLG ([AMM TASK 32-30-00-700-801-A/500](#)).
- (6) Do the functional check of the landing gear free-fall system (TASK 32-34-00-720-001-A).
- (7) Lower the aircraft and remove the jacks (AMM TASK 07-10-00-500-802-A/200).