



EMB145 - EMB135

AIRCRAFT
MAINTENANCE MANUAL

NOSE LANDING GEAR AUXILIARY BRACE STRUT - REMOVAL/INSTALLATION

EFFECTIVITY: ALL

1. General

- A. This section gives the procedures to remove and install the auxiliary brace 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
32-20-03-000-801-A	AUXILIARY BRACE STRUT OF THE NOSE ALL LANDING GEAR - REMOVAL	
32-20-03-400-801-A	AUXILIARY BRACE STRUT OF THE NOSE ALL LANDING GEAR - INSTALLATION	



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TASK 32-20-03-000-801-A

EFFECTIVITY: ALL

2. AUXILIARY BRACE STRUT OF THE NOSE LANDING GEAR - REMOVAL

A. General

- (1) This procedure gives the instructions to remove the auxiliary brace strut 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 32-00-02-910-801-A/200	SAFETY PIN OF THE NLG DOORS SOLENOID VALVE - INSTALLATION AND REMOVAL
AMM TASK 32-20-04-000-801-A/400	SPRING ASSEMBLIES OF THE NOSE LANDING GEAR - REMOVAL
AMM TASK 32-33-06-000-801-A/400	UNLOCKING ACTUATOR OF THE NOSE LANDING GEAR - REMOVAL
AMM TASK 32-61-02-000-801-A/400	DOWNSHIFT PROXIMITY SWITCH - REMOVAL
SB145-32-0036	-

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	Nose landing gear

I. Preparation

SUBTASK 841-002-A

- (1) For aircraft PRE-MOD SB145-32-0036, make sure that the pressure in hydraulic system No. 1 is fully released ([AMM TASK 29-10-00-860-802-A/200](#)).



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- (2) For aircraft POST-MOD [SB145-32-0036](#), install safety pin of the NLG doors solenoid valve ([AMM TASK 32-00-02-910-801-A/200](#)).
- (3) Fully lift the aircraft on jacks. Refer to AMM TASK 07-10-00-500-801-A/200.
- (4) Disconnect the lower ends of the spring assemblies ([AMM TASK 32-20-04-000-801-A/400](#)).
- (5) Disconnect the lower end of the NLG unlock actuator ([AMM TASK 32-33-06-000-801-A/400](#)).
- (6) Remove the downlock proximity switches ([AMM TASK 32-61-02-000-801-A/400](#)).

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

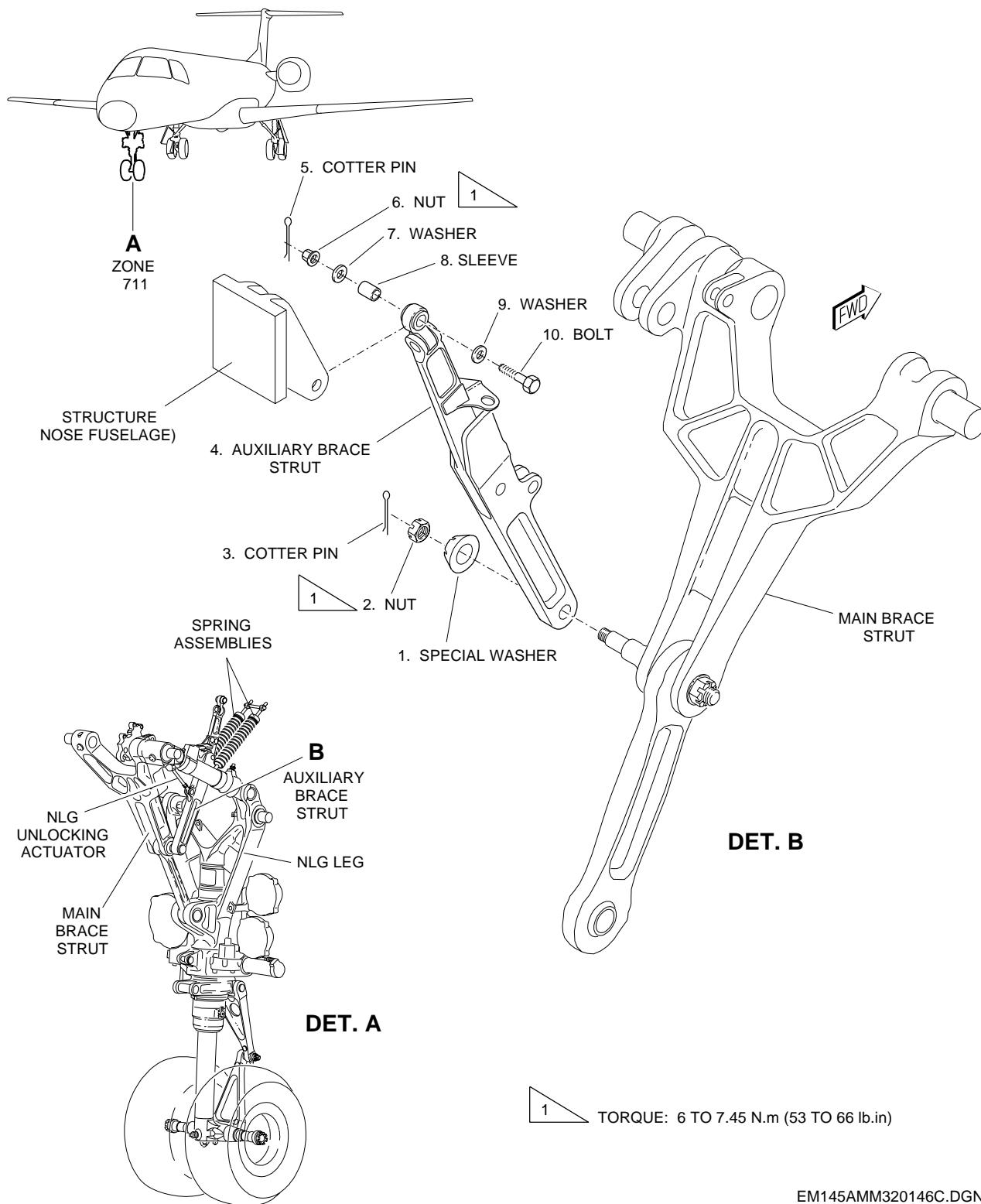
SUBTASK 020-002-A

- (1) Remove the cotter pin (3), nut (2), and special washer (1).
- (2) Remove the cotter pin (5), nut (6), washers (7) and (9), sleeve (8) and bolt (10).
- (3) Remove the auxiliary brace strut (4).

EFFECTIVITY: ALL

Auxiliary Brace Strut of the Nose Landing Gear - Removal/Installation

Figure 401





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TASK 32-20-03-400-801-A

EFFECTIVITY: ALL

3. AUXILIARY BRACE STRUT OF THE NOSE LANDING GEAR - INSTALLATION

A. General

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

B. References

REFERENCE	DESIGNATION
AMM TASK 32-00-02-910-801-A/200	SAFETY PIN OF THE NLG DOORS SOLENOID VALVE - INSTALLATION AND REMOVAL
AMM TASK 32-20-04-400-801-A/400	SPRING ASSEMBLIES OF THE NOSE LANDING GEAR - INSTALLATION
AMM TASK 32-33-06-400-801-A/400	UNLOCKING ACTUATOR OF THE NOSE LANDING GEAR - INSTALLATION
AMM TASK 32-61-02-400-801-A/400	DOWNLOCK PROXIMITY SWITCH - INSTALLATION
SB145-32-0036	-

C. Zones and Accesses

Not Applicable

D. Tools and Equipment

Not Applicable

E. Auxiliary Items

Not Applicable

F. Consumable Materials

SPECIFICATION (BRAND)	DESCRIPTION	QTY
MS24665-153	Cotter pin	2

G. Expandable Parts

Not Applicable

H. Persons Recommended

QTY	FUNCTION	PLACE
1	Does the task	Nose landing gear

I. Installation (Figure 401)

SUBTASK 420-002-A

- (1) Put the auxiliary brace strut (4) in its installation position between the main brace strut and the support at the nose fuselage structure.

- (2) Install the sleeve (8), the bolt (10), washers (7) and (9), and nut (6), to attach the auxiliary brace strut (4) to the support at the nose fuselage structure apply torque 6 to 7.5 N.m (53 to 66 lb.in).
- (3) Install the special washer (1), and nut (2), to attach the auxiliary brace strut (4) to the main brace strut apply torque 6 to 7.5 N.m (53 to 66 lb.in).
- (4) Install the cotter pins (3) and (5).

J. Follow-on

SUBTASK 842-002-A

- (1) Connect the lower ends of the spring assemblies ([AMM TASK 32-20-04-400-801-A/400](#)).
- (2) Connect the lower end of the NLG unlock actuator ([AMM TASK 32-33-06-400-801-A/400](#)).
- (3) Install the downlock proximity switches ([AMM TASK 32-61-02-400-801-A/400](#)).
- (4) For aircraft POST-MOD [SB145-32-0036](#), remove safety pin of the NLG doors solenoid valve ([AMM TASK 32-00-02-910-801-A/200](#)).
- (5) Energize the aircraft.
- (6) Do the retraction and extension of the landing gear while you monitor the EICAS, to make sure that the “DN” indication comes into view for the related landing gear leg.
- (7) Lower the aircraft and remove the jacks.