

## MAIN-LANDING-GEAR SHOCK ABSORBER - REMOVAL/INSTALLATION

*EFFECTIVITY: ALL*

### 1. General

- A. This section gives the procedures to remove and install the shock absorber of the main landing gear.
- B. These procedures are applicable to the LH and RH main landing gears.
- C. 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 |
|--------------------|---|-------------|
| 32-10-02-000-801-A | SHOCK ABSORBER OF THE MAIN LAND-<br>ING GEAR - REMOVAL      | ALL         |
| 32-10-02-400-801-A | SHOCK ABSORBER OF THE MAIN LAND-<br>ING GEAR - INSTALLATION | ALL         |

TASK 32-10-02-000-801-A

EFFECTIVITY: ALL

## 2. SHOCK ABSORBER OF THE MAIN LANDING GEAR - REMOVAL

### A. General

- (1) This procedure gives the instructions to remove the shock absorber of the main landing gear.

### B. References

| REFERENCE                                       | DESIGNATION                              |
|---|--|
| AMM TASK 07-10-00-500-801-A/200                 | -  |
| <a href="#">AMM TASK 32-00-01-910-801-A/200</a> | LG SAFETY PIN - INSTALLATION AND REMOVAL |

### C. Zones and Accesses

Not Applicable

### D. Tools and Equipment

| ITEM                    | DESCRIPTION | PURPOSE   | QTY |
|-------------------------|-------------|---|-----|
| <a href="#">GSE 003</a> | Jack        | To support the trailing arm of the landing gear |     |

### 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 MLG |
| 1   | Helps the other technician | RH or LH MLG |

### I. Preparation

#### *SUBTASK 841-002-A*

- (1) On the circuit breaker panel, open the ELEC PUMP 1 circuit breaker and attach a DO-NOT-CLOSE tag to it.
- (2) Make sure that the pressure in hydraulic system 1 is fully released.
- (3) Make sure that the safety pins of the landing gears are installed ( [AMM TASK 32-00-01-910-801-A/200](#) ).

- (4) Lift the aircraft on jacks until the wheels are off the ground. Refer to AMM TASK 07-10-00-500-801-A/200.
- (5) Put jack GSE 003 under the trailing arm to support it.
- (6) Discharge the shock absorber.

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

*SUBTASK 020-002-A*

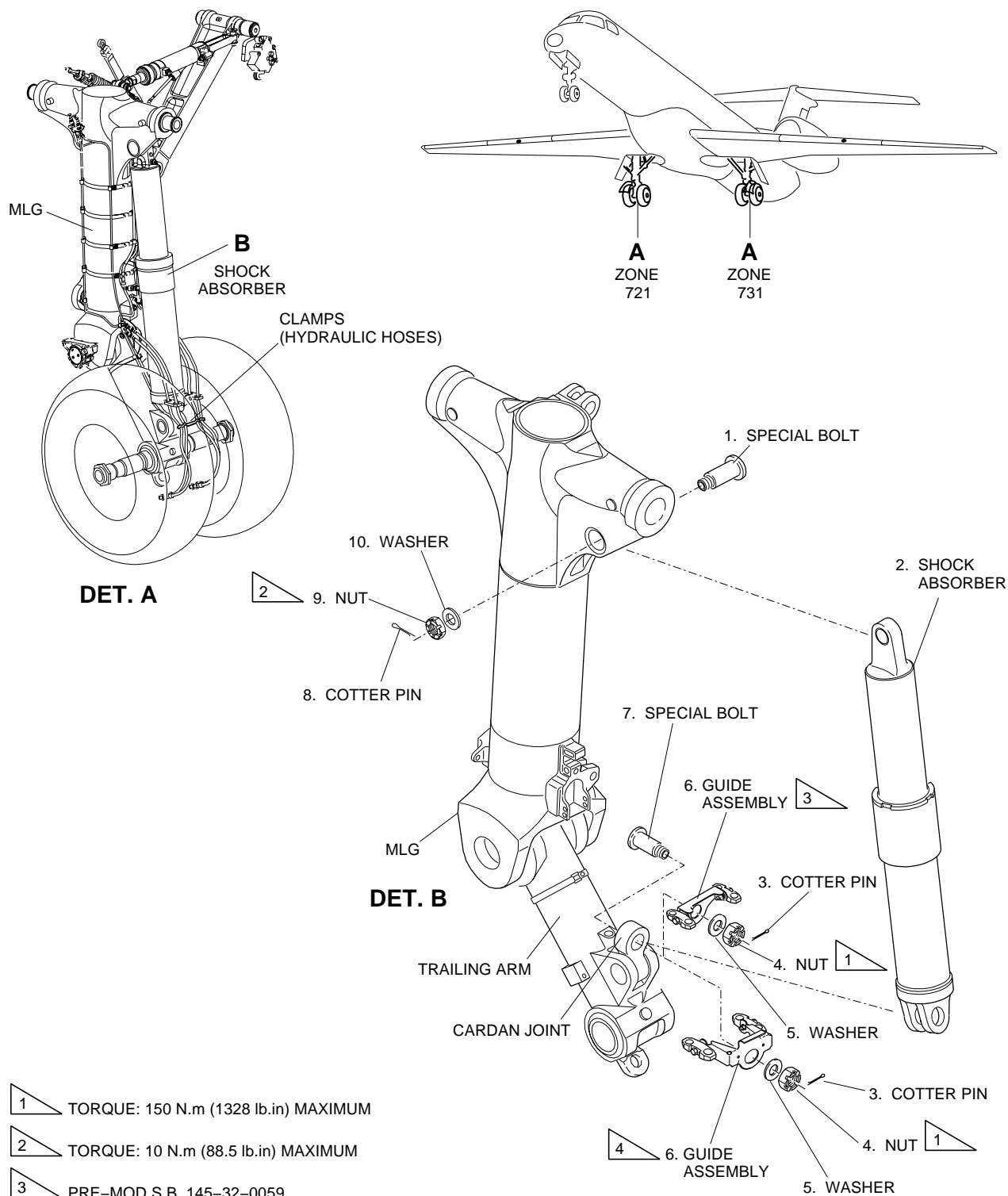
**CAUTION:** WITH THE TRAILING ARM DISCONNECTED FROM THE SHOCK ABSORBER, DO NOT LIFT THE AIRCRAFT TO MORE THAN THE OFF-THE-GROUND CONDITION, AS GIVEN IN ITEM I - PREPARATION, ITEM (4). IF YOU DO NOT OBEY THIS, DAMAGE WILL OCCUR TO THE METALLIC TARGET OF THE LOWER AIR/GROUND PROXIMITY SWITCH WHEN THE TRAILING ARM IS MOVED TO THE VERTICAL POSITION.

- (1) Remove the cotter pin (8), nut (9), washer (10), and special bolt (1), to disconnect the upper end of the shock absorber (2).
- (2) Remove the cotter pin (3), nut (4), washer (5), guide assembly (6), and special bolt (7) to disconnect the lower end of the shock absorber (2).
- (3) Hold the shock absorber (2) and lower the trailing arm. For this, slowly operate jack GSE 003.
- (4) Remove the shock absorber (2).

EFFECTIVITY: ALL

Shock Absorber of the Main Landing Gear - Removal/Installation

Figure 401



EM145AMM320121G.DGN

TASK 32-10-02-400-801-A  
EFFECTIVITY: ALL

### 3. SHOCK ABSORBER OF THE MAIN LANDING GEAR - INSTALLATION

#### A. General

(1) This procedure gives the instructions to install the shock absorber of the MLG.

#### B. References

| REFERENCE                                       | DESIGNATION                    |
|---|--------------------------------|
| <a href="#">AMM TASK 32-10-02-600-801-A/300</a> | MLG SHOCK ABSORBER - SERVICING |

#### C. Zones and Accesses

Not Applicable

#### D. Tools and Equipment

| ITEM                    | DESCRIPTION | PURPOSE   | QTY |
|-------------------------|-------------|---|-----|
| <a href="#">GSE 003</a> | Jack        | To support the trailing arm of the landing gear |     |

#### E. Auxiliary Items

Not Applicable

#### F. Consumable Materials

| SPECIFICATION<br>(BRAND)       | DESCRIPTION  | QTY |
|--------------------------------|--|-----|
| MEP09-075                      | Corrosion Inhibitive Sealant CA-1000 or COR-BAN 27 L | AR  |
| SAE AMS 3277, Type I, Class B2 | Sealant PR1826B2ALO                                  | AR  |

#### G. Expandable Parts

Not Applicable

#### H. Persons Recommended

| QTY | FUNCTION                   | PLACE        |
|-----|----------------------------|--------------|
| 1   | Does the task              | RH or LH MLG |
| 1   | Helps the other technician | RH or LH MLG |

#### I. Installation ([Figure 402](#)) (Figure 401)

##### SUBTASK 420-002-A

- (1) Install the lower end of the shock absorber (2) in the cardan joint at the trailing arm.
- (2) Apply corrosion inhibitive sealant CA-1000 or COR-BAN 27 L to the special bolt (7).
- (3) Install the special bolt (7), guide assembly (6), washer (5), and nut (4). Apply a torque of 150 N.m (1328 lb.in) maximum.

- (4) Install the cotter pin (3).
- (5) Slowly operate jack GSE 003 to lift the trailing arm and install the upper end of the shock absorber (2) to the landing gear leg.
- (6) Apply corrosion inhibitive sealant CA-1000 or COR-BAN 27 L to special bolt (1).
- (7) Align the holes of the shock absorber (2) and of the landing gear leg, and install the special bolt (1) and washer (10), apply corrosion inhibitive sealant CA-1000 or COR-BAN 27 L to it and install nut (9). Apply a torque of 10 N.m (88.5 lb.in) maximum and install cotter pin (8).

NOTE: Add a drag nut torque to the torque procedure, to get the final torque.

- (8) Apply a continuous bead of sealant PR1826B2ALO along the interface of the special bolt (1) with the shock absorber (2); along the interface of the special bolt (1) with the nut (9); along the interface of the nut (9) with the washer (10); and along the interface of the washer (10) with the shock absorber (2).

NOTE: You can use sealant P/S 870B-2 or sealant AC-665 B-2 as alternatives to sealant PR1826B2ALO. But, 24 hours after the application of these alternative sealants, apply a layer of varnish 683-3-2/X-310A to them.

J. Follow-on

*SUBTASK 842-002-A*

- (1) Lower jack GSE 003 and remove it.
- (2) Do the check of the height "H" to make sure that the pressure in the shock absorber is correct. Refer to the instructions in [Figure 402](#).

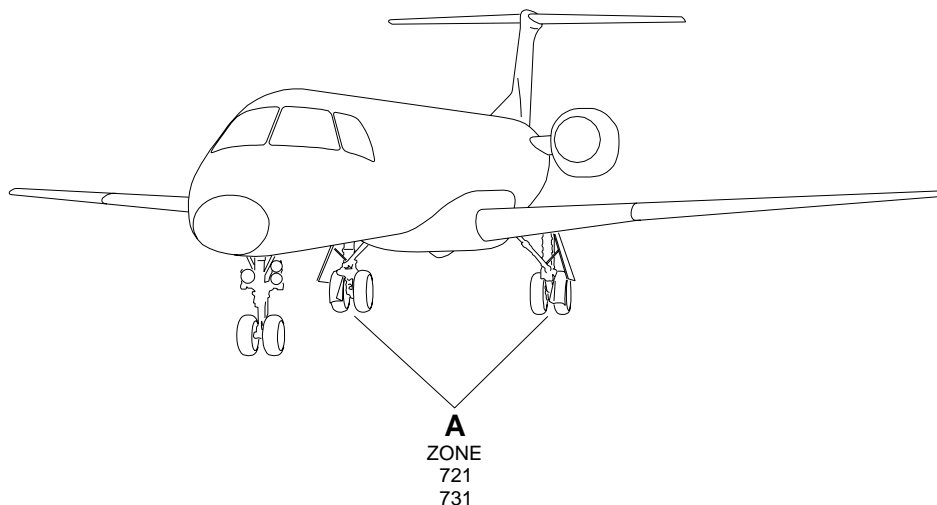
NOTE: If necessary, do the servicing of the shock absorber. Refer to [AMM TASK 32-10-02-600-801-A/300](#).

- (3) On the circuit breaker panel, close the ELEC PUMP 1 circuit breaker and remove the DO-NOT-CLOSE tag from it.
- (4) Lower the aircraft and remove the jacks.

EFFECTIVITY: ALL

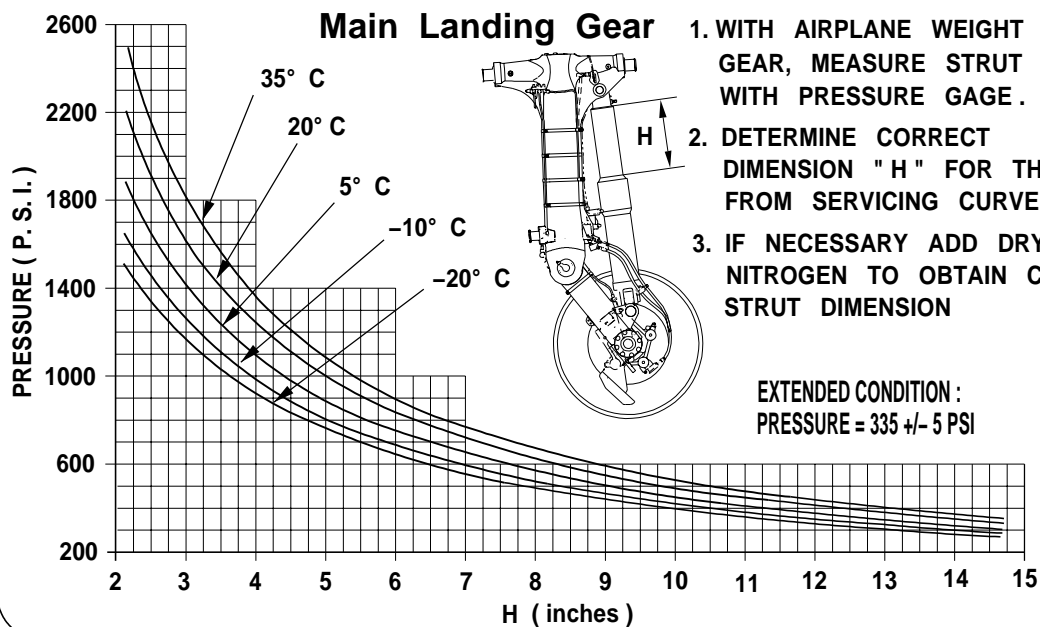
Height of the MLG Shock Absorber

Figure 402



## SERVICING CHART

### Main Landing Gear



DET. A

EM145AMM320690A.DGN

