



AIRCRAFT  
MAINTENANCE MANUAL

MAIN-LANDING-GEAR TRAILING ARM - REPAIR

EFFECTIVITY: ALL

1. General

- A. This section gives the procedures to repair the surfaces of the MLG wheel axle.
- 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
32-10-08-300-801-A	MLG WHEEL AXLE - REPAIR	ALL



# AIRCRAFT MAINTENANCE MANUAL

TASK 32-10-08-300-801-A

EFFECTIVITY: ALL

## 2. MLG WHEEL AXLE - REPAIR

### A. General

- (1) This task gives the procedures to repair the chromium plating surfaces of the MLG wheel axle.
- (2) This procedure must only be done after an inspection according to [AMM TASK 32-10-08-200-801-A/600](#).

### B. References

REFERENCE	DESIGNATION
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
AMM TASK 32-10-08-200-801-A/600	MLG WHEEL AXLE - INSPECTION
AMM TASK 32-49-02-000-801-A/400	WHEEL ASSEMBLY OF THE MAIN LANDING GEAR - REMOVAL
AMM TASK 32-49-02-400-801-A/400	WHEEL ASSEMBLY OF THE MAIN LANDING GEAR - INSTALLATION
AMM TASK 32-49-03-000-801-A/400	BRAKE ASSEMBLY OF THE MAIN LANDING GEAR - REMOVAL
AMM TASK 32-49-03-400-801-A/400	BRAKE ASSEMBLY OF THE MAIN LANDING GEAR - INSTALLATION
CMM 32-10-01	-
S.B.145-32-0036	-

### C. Zones and Accesses

ZONE	PANEL/DOOR	LOCATION
721	-	RH MLG
731	-	LH MLG

### D. Tools and Equipment

Not Applicable

### E. Auxiliary Items

ITEM	DESCRIPTION	PURPOSE	QTY
Commercially available	Safety Goggles	Eye Protection	1
Commercially available	Paper Respirator	Respiration Tract Protection	1

(Continued)

ITEM	DESCRIPTION	PURPOSE	QTY
Commercially available	Rubber Gloves	Skin Protection	1
Commercially available	Wiper Cloth, Lint-Free	Cleaning	1
Commercially available	10X to 30X Magnifying Glass	Visual Inspection	1

**F. Consumable Materials**

SPECIFICATION (BRAND)	DESCRIPTION	QTY
MEP 13-073	RHODIASOLVE E-23	AR
-	450 or 600-Grit Sandpaper	AR
MIL-PRF-23377-J	EPOXY primer	AR

**G. Expandable Parts**

Not Applicable

**H. Persons Recommended**

QTY	FUNCTION	PLACE
1	Does the task	RH and LH MLG

**I. Preparation**
**SUBTASK 841-002-A**

**WARNING: MAKE SURE THAT THE AIRCRAFT IS IN A SAFE CONDITION BEFORE YOU DO THE MAINTENANCE PROCEDURES. THIS IS TO PREVENT INJURY TO PERSONS AND/OR DAMAGE TO THE EQUIPMENT.**

- (1) Use personal protection equipment while you do the tasks.
- (2) All related persons must know the correct solvent handling procedures.
- (3) Do these tasks in an area with a good flow of air, where solvent vapors cannot collect and with no pieces of equipment which can cause flames or sparks.
- (4) A fire extinguisher with a minimum of 25 kg of carbon dioxide or equivalent must be available.
- (5) On the circuit breaker panel, open the ELEC PUMP 1, CMD, IND 1, and IND 2 circuit breakers and attach DO-NOT-CLOSE tags to them.
- (6) For aircraft PRE-MOD. [S.B.145-32-0036](#), make sure that the pressure in hydraulic system No. 1 is fully released ([AMM TASK 29-10-00-860-802-A/200](#)).
- (7) For aircraft POST-MOD. [S.B.145-32-0036](#), install the safety pin of the NLG doors solenoid valve ([AMM TASK 32-00-02-910-801-A/200](#)).

- (8) Make sure that the safety pins of the landing gears are installed ( [AMM TASK 32-00-01-910-801-A/200](#)).
- (9) Remove the main wheels from the axle, as applicable. Refer to [AMM TASK 32-49-02-000-801-A/400](#).
- (10) Remove the brake assy from the wheel axle, as applicable. Refer to [AMM TASK 32-49-03-000-801-A/400](#).

J. Repair ([Figure 801](#))

SUBTASK 370-002-A

**WARNING: ALWAYS OBEY THE MANUFACTURER'S HEALTH AND SAFETY PRECAUTIONS WHEN YOU USE SEALANTS OR SOLVENTS. USE SEALANTS OR SOLVENTS ONLY IN AREAS WHERE THERE IS A GOOD AIRFLOW. DO NOT BREATHE THE FUMES OF THESE MATERIALS AND DO NOT GET THEM ON YOUR SKIN, IN YOUR EYES OR MOUTH. PUT ON APPROVED PROTECTIVE CLOTHING AND GOGGLES. SEALANTS AND SOLVENTS ARE DANGEROUS AND IF YOU DO NOT OBEY THESE PRECAUTIONS, INJURY CAN OCCUR.**

- (1) Clean the external surface of the wheel axle using solvent RHODIASOLVE E-23.
- (2) Repair the damage or scratches, in the chrome-plated surface of the wheel axle, as follows:

**CAUTION: BE CAREFUL TO REMOVE ONLY THE QUANTITY OF CHROME PLATING NECESSARY TO REMOVE THE DAMAGE. MAKE SURE THAT, AFTER THE REMOVAL, THE FINAL DEPTH IS NOT MORE THAN 0.178 MM (0.007 IN), IF IT IS, YOU MUST REPAIR THE TRAILING ARM AS GIVEN IN THE ELEB COMPONENT MAINTENANCE MANUAL CMM 32-10-01.**

- (a) Smooth out the scratch or score with 450 or 600-grit sandpaper. Keep the repair area as small as possible.

**NOTE: Be careful not to remove more than 0.025 mm (0.001 in.) of the chrome-plating.**

- (b) Do a visual inspection in the repaired area for oxidation or corrosion of the surface protection or marks, gripping signs, dents and wear because of use. As an aid, use a 10X to 30X minimum magnifying glass.

**WARNING: THE COMPONENT MUST BE REPLACED IMMEDIATELY IF ANY CRACK IS FOUND ON THE NONDESTRUCTIVE INSPECTION.**

- (c) Do a nondestructive inspection in the repaired area by the fluorescent dye-penetrant method ASTM E 1417; use products such as MAGNAFLUX. The axle must be free from cracks and other defects.
- (d) Apply EPOXY primer above all the affected area.



EMB145 – EMB135

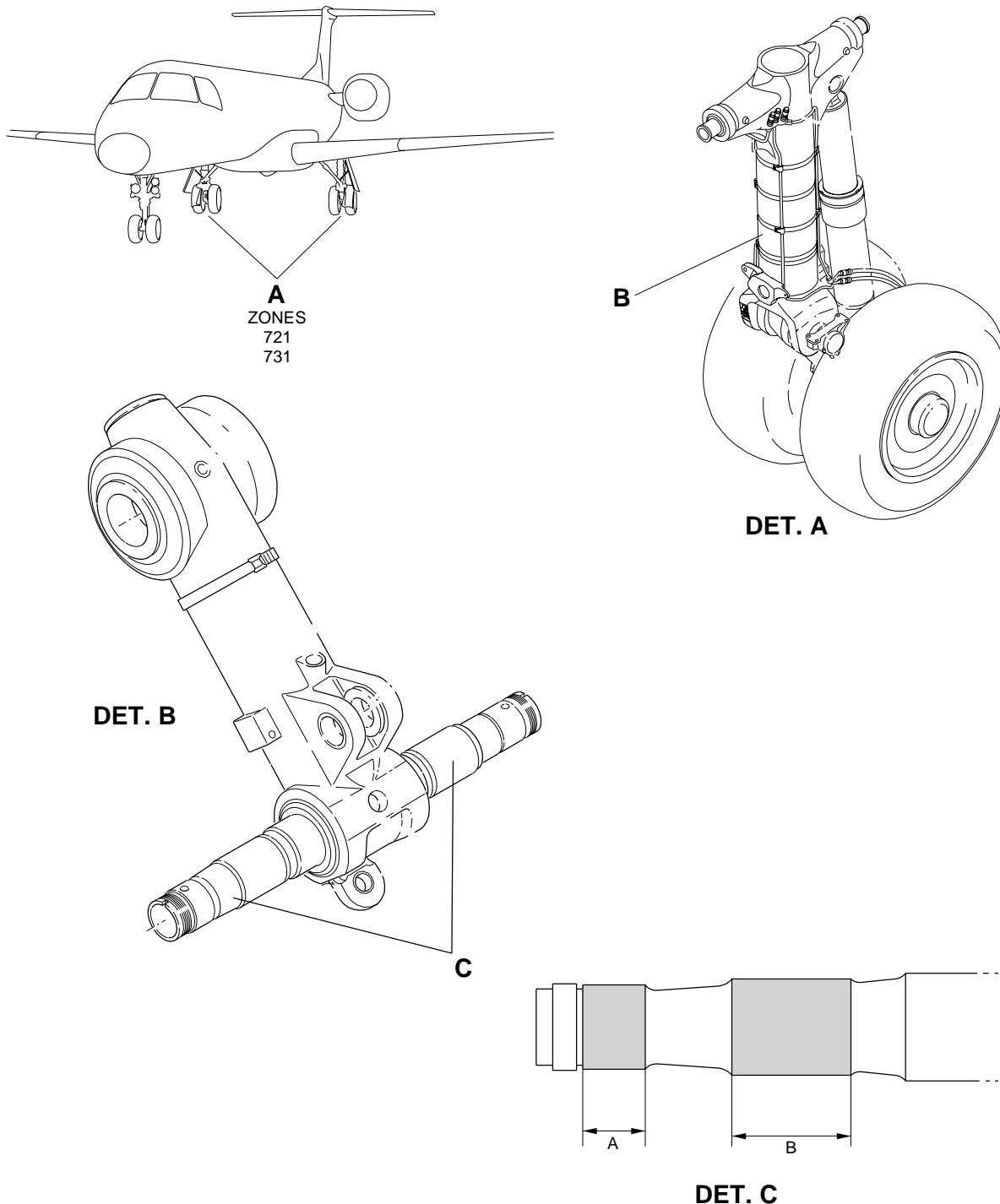
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K. Follow-on

SUBTASK 842-002-A

- (1) Install the brake assy on the wheel axle. Refer to [AMM TASK 32-49-03-400-801-A/400](#).
- (2) Install the main wheels on the axle. Refer to [AMM TASK 32-49-02-400-801-A/400](#).
- (3) 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](#)).
- (4) Remove the safety pins from the landing gears ( [AMM TASK 32-00-01-910-801-A/200](#)).
- (5) On the circuit breaker panel, close the ELEC PUMP, CMD, IND 1, and IND 2 circuit breakers and remove the DO-NOT-CLOSE tags from them.

**EFFECTIVITY: ALL**  
**MLG Wheel Axle - Repair**  
**Figure 801**



A and B = CHROME PLATED AREA

EM145AMM320450.DGN