

MAIN-LANDING-GEAR TRAILING ARM - INSPECTION/CHECK

EFFECTIVITY: ALL

1. General

- A. This section gives the procedure to do an inspection on the MLG wheel axle for general condition.
- 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
32-10-08-200-801-A ◆	MLG WHEEL AXLE - INSPECTION	ALL

TASK 32-10-08-200-801-A

EFFECTIVITY: ALL

2. MLG WHEEL AXLE - INSPECTION

A. General

- (1) This procedure gives the instructions to do an inspection on the MLG wheel axle for general condition.

B. References

REFERENCE	DESIGNATION
AMM MPP 32-10-08/400	- REMOVAL/INSTALLATION
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 32-10-08-000-801-A/400	TRAILING ARM OF THE MAIN LANDING GEAR - REMOVAL
AMM TASK 32-10-08-300-801-A/800	MLG WHEEL AXLE - REPAIR
AMM TASK 32-10-08-400-801-A/400	TRAILING ARM OF THE MAIN LANDING GEAR - INSTALLATION
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
S.B.145-32-0036	-

C. Zones and Accesses

ZONE	PANEL/DOOR	LOCATION
731		LH MLG
721		RH MLG

D. Tools and Equipment

ITEM	DESCRIPTION	PURPOSE	QTY
Commercially available	Borescope	Internal Inspection	

E. Auxiliary Items

ITEM	DESCRIPTION	PURPOSE	QTY
Commercially available	Safety Goggles	Eye Protection	1
Commercially available	Paper Respirator	Respiratory Tract Protection	1
Commercially available	Rubber Gloves	Skin Protection	1
Commercially available	Wiper Cloth, Lint-Free	Cleaning	1
Commercially available	5X Magnifying Glass	Visual Inspection	1

F. Consumable Materials

SPECIFICATION (BRAND)	DESCRIPTION	QTY
MEP 13-073	RHODIASOLVE E-23	AR

G. Expandable Parts

Not Applicable

H. Persons Recommended

QTY	FUNCTION	PLACE
1	Does the task	RH and LH MLG

I. Preparation

SUBTASK 840-002-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 the hydraulic system 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 on 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. Refer to [AMM TASK 32-49-02-000-801-A/400](#).
- (10) Remove the brake assembly from the wheel axle. Refer to [AMM TASK 32-49-03-000-801-A/400](#).

J. Inspection of MLG Wheel Axle for General Condition ([Figure 601](#))

SUBTASK 212-004-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 with solvent RHODIASOLVE E-23.
- (2) Visually examine the external surface areas (non-chrome-plated areas) of the axle, for corrosion, scratches, or other types of damage. As an aid, use a 5X magnifying glass .
If you see corrosion, scratches, or other damage, replace the trailing arm. For this, refer to [AMM TASK 32-10-08-000-801-A/400](#) for removal and [AMM TASK 32-10-08-400-801-A/400](#) for installation.
- (3) With the aid of a borescope, examine the internal bore of the axle for corrosion signs.
If you find corrosion, replace the trailing arm. For this, refer to [AMM TASK 32-10-08-000-801-A/400](#) for removal and [AMM TASK 32-10-08-400-801-A/400](#) for installation.
- (4) Visually examine the outer (A) and inner (B) bearing seats in the chrome-plated area of the axle for signs of overheating.
If you see signs of overheating, replace the trailing arm. For this, refer to [AMM TASK 32-10-08-000-801-A/400](#) for removal and [AMM TASK 32-10-08-400-801-A/400](#) for installation.
- (5) Visually examine the outer (A) and inner (B) bearing seats in the chrome-plated area of the axle for scratches or other types of damage. Do the check on all faces (top, forward, bottom, and aft) of the axle.
If you find scratches or other types of damage, do as follows:
 - (a) Measure the depth of the damage in the chrome-plated area of the axle .
 - (b) Repair the surface protection if the depth measured is less than or equal to 0.152 mm (0.006 in). Refer to [AMM TASK 32-10-08-300-801-A/800](#).

NOTE: In the case of a 0.152 mm (0.006 in) deep damage, the repair may reach 0.178 mm (0.007 in) in depth, which is the serviceability limit for a repaired arm.

- (c) If the depth measured is more than 0.152 mm (0.006 in), replace the trailing arm ([AMM MPP 32-10-08/400](#)).

NOTE: To repair the old trailing arm, refer to the ELEB Component Maintenance Manual CMM 32-10-01.

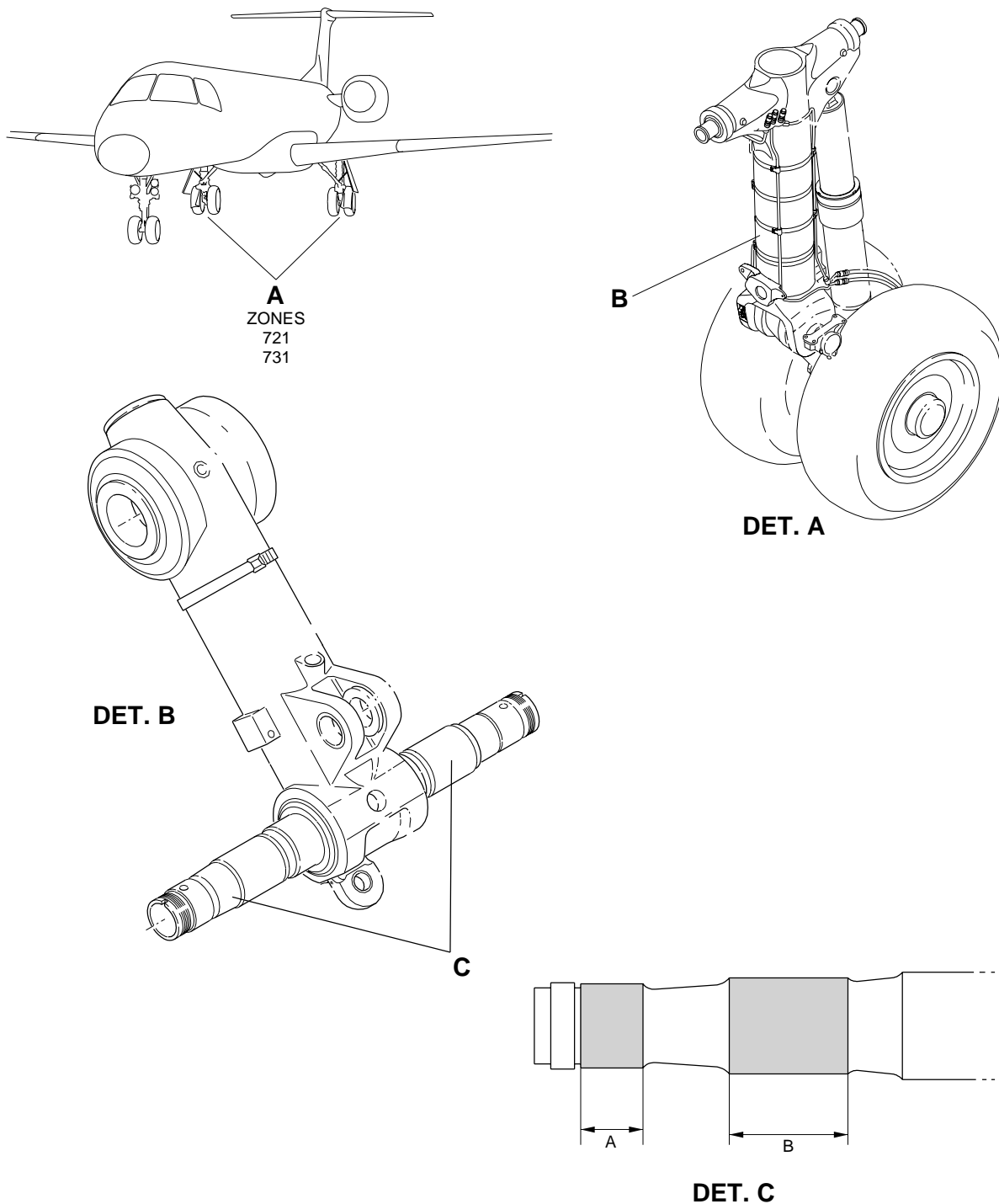
- (6) If problem is found in step (4) or (5), replace the bearings or the wheel related to the damage.

K. Follow-on

SUBTASK 840-003-A

- (1) Install the brake assembly 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 - Inspection
Figure 601



A and B = CHROME PLATED AREA

EM145AMM320450.DGN