

NOSE-LANDING-GEAR SLIDING TUBE - INSPECTION/CHECK

EFFECTIVITY: ALL

1. General

- A. This section gives the procedure to do an inspection on the NLG 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
32-20-08-200-801-A	NLG WHEEL AXLE - INSPECTION	ALL

TASK 32-20-08-200-801-A

EFFECTIVITY: ALL

2. NLG WHEEL AXLE - INSPECTION

A. General

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

B. References

REFERENCE	DESIGNATION
AMM TASK 32-20-01-000-801-A/400	NOSE LANDING-GEAR LEG - REMOVAL
AMM TASK 32-20-01-400-801-A/400	NOSE LANDING-GEAR LEG - INSTALLATION
AMM TASK 32-20-08-000-801-A/400	SLIDING TUBE OF THE NOSE LANDING GEAR - REMOVAL
AMM TASK 32-20-08-300-801-A/800	NLG WHEEL AXLE - REPAIR
AMM TASK 32-20-08-400-801-A/400	SLIDING TUBE OF THE NOSE LANDING GEAR - INSTALLATION
AMM TASK 32-49-05-000-801-A/400	WHEEL ASSEMBLY OF THE NOSE LANDING GEAR - REMOVAL
BF Goodrich CMM 32-49-04	-
CMM 32-49-08 (for Wheel Assy NLG part number 3-1622)	-

C. Zones and Accesses

ZONE	PANEL/DOOR	LOCATION
711		NLG

D. Tools and Equipment

Not Applicable

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

F. Consumable Materials

<i>SPECIFICATION (BRAND)</i>	<i>DESCRIPTION</i>	<i>QTY</i>
MEP 13-073	RHODIASOLVE E-23	AR
SAE AMS 3277, Type I, Class B2	Sealant PR1826B2ALO	AR

G. Expandable Parts

Not Applicable

H. Persons Recommended

<i>QTY</i>	<i>FUNCTION</i>	<i>PLACE</i>
1	Does the task	NLG

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) Remove the nose wheels from the axle. Refer to [AMM TASK 32-49-05-000-801-A/400](#).

J. Inspection on NLG Wheel Axle for General Condition ([Figure 601](#))

SUBTASK 212-002-A

- (1) Remove the sleeves (1) from the wheel axle (2).
- (2) Remove the sealant in the interface between the sleeve (1) and the wheel axle (2).

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.

- (3) Clean the external surface of the wheel axle with solvent RHODIASOLVE E-23.
- (4) Visually examine the external surface areas (non-chrome-plated area) of the axle (2), for corrosion, scratches, or other types of damage.

If you see corrosion, scratches, or other types of damage, replace the sliding tube assembly. For this, refer to [AMM TASK 32-20-08-000-801-A/400](#) for removal and [AMM TASK 32-20-08-400-801-A/400](#) for installation.

NOTE: As an alternative, you can replace the nose landing gear leg. Refer then to task [AMM TASK 32-20-01-000-801-A/400](#) for removal and [AMM TASK 32-20-01-400-801-A/400](#) for installation.

- (5) Visually examine the inner (A) and outer (B) bearing seats, in the chrome-plated area of the axle (2), for signs of overheating.

If you find signs of overheating, replace the sliding tube assembly. For this, refer to [AMM TASK 32-20-08-000-801-A/400](#) for removal and [AMM TASK 32-20-08-400-801-A/400](#) for installation.

NOTE: As an alternative, you can replace the nose landing gear leg. Refer then to task [AMM TASK 32-20-01-000-801-A/400](#) for removal and [AMM TASK 32-20-01-400-801-A/400](#) for installation.

- (6) Visually examine the internal bore of the axle (2) for signs of overheating. Use a flashlight for this.

If there is signs of blistered paint or overheating, replace the sliding tube assembly. For this, refer to [AMM TASK 32-20-08-000-801-A/400](#) for removal and [AMM TASK 32-20-08-400-801-A/400](#) for installation.

NOTE: As an alternative, you can replace the nose landing gear leg. Refer then to [AMM TASK 32-20-01-000-801-A/400](#) for removal and [AMM TASK 32-20-01-400-801-A/400](#) for installation.

- (7) Visually examine the inner (A) and outer (B) bearing seats, in the chrome-plated area of the axle (2), for scratches or other types of damage. Do the check on all faces (top, forward, bottom, and aft) of the axle (2).

If you see scratches or other types of damage, do as follows:

- (a) Measure the depth of the damaged spot in the chrome-plated area of the wheel axle (2).

NOTE: The chrome plating of the wheel axle has a nominal thickness of 100 µm (4000 µin).

- (b) If the depth of the damaged spot is equal to or less than 50 µm (2000 µin), repair the surface protection. For this, refer to [AMM TASK 32-20-08-300-801-A/800](#).
- (c) If the damage depth is more than 50 µm (2000 µin) or the base metal is visible, replace the sliding tube assembly. For this, refer to [AMM TASK 32-20-08-000-801-A/400](#) for removal and [AMM TASK 32-20-08-400-801-A/400](#) for installation.

NOTE: As an alternative, you can replace the nose landing gear leg. Refer then to [AMM TASK 32-20-01-000-801-A/400](#) for removal and [AMM TASK 32-20-01-400-801-A/400](#) for installation.

- (8) If problem is found in step (4) or (5) or (6), send the wheel bearings to the shop for inspection. Refer to BF Goodrich CMM 32-49-04 or CMM 32-49-08 (for Wheel Assy NLG part number 3-1622).
- (9) Apply sealant PR1826B2ALO in the interface between the sleeve (1) and the wheel axle (2).

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

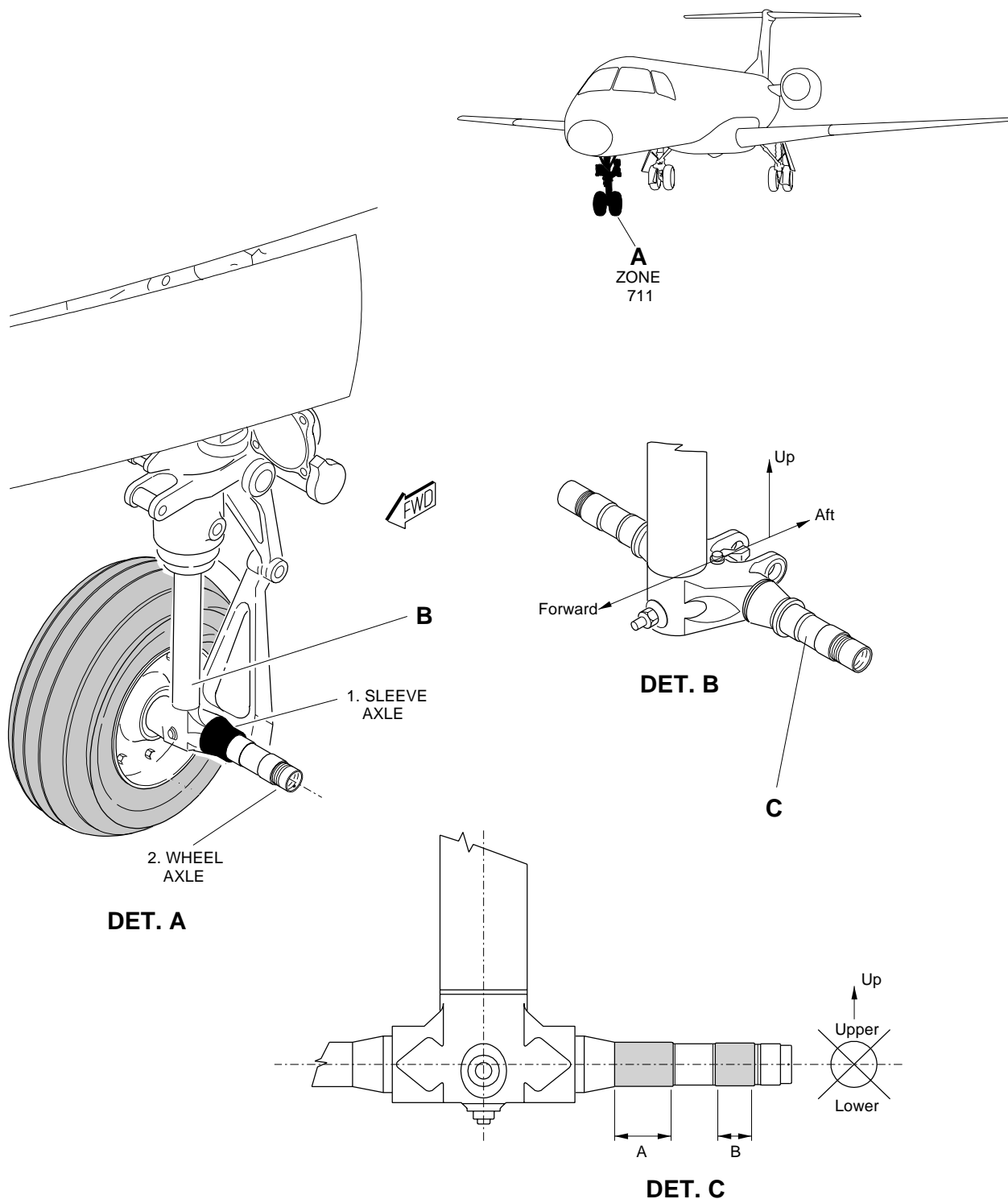
- (10) Install the sleeves (1) on the wheel axle (2).

K. Follow-on

SUBTASK 842-002-A

- (1) Install the nose wheels to the axle. Refer to [AMM TASK 32-49-05-000-801-A/400](#).
- (2) 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
NLG Wheel Axle - Inspection
Figure 601



A AND B = CHROME PLATED AREA

EM145AMM320404.DGN