

LANDING GEAR ELECTRICAL HARNESS AND WIRES - MAINTENANCE PRACTICES

EFFECTIVITY: ALL

1. General

- A. This procedure shows the location of the electrical harness and wires for the main and nose landing gear.
- B. This procedure also supplies the data necessary to identify the electrical harness and wires for the landing gear.
- C. This procedure does not supply instructions to repair the electrical harness and wires or electrical connectors for the landing gear. Refer to WM 20-21-00 for instructions to repair the electrical harness and wires. Refer to WM 20-50-00 for the instructions to repair the electrical connectors.
- D. 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
32-00-03-800-801-A	LANDING GEAR ELECTRICAL HARNESS AND WIRES - LOCATION AND PART DATA	ALL

TASK 32-00-03-800-801-A

EFFECTIVITY: ALL

2. LANDING GEAR ELECTRICAL HARNESS AND WIRES - LOCATION AND PART DATA

A. General

(1) The landing gear has eight groups of electrical harness and wires:

- (a) Wheel speed transducer.
- (b) Brake temperature monitoring.
- (c) Uplock proximity switch.
- (d) Downlock proximity switch.
- (e) Air/Ground (WOW) proximity switch.
- (f) Steering sensors.
- (g) Nose landing gear lights.
- (h) Electrical bonding landing gear/aircraft.

B. References

REFERENCE	DESIGNATION
AMM TASK 20-13-21-910-801-A/200	TYPES OF ELECTRICAL BONDING AND SURFACE PREPARATION - STANDARD PROCEDURES
AMM TASK 32-10-08-400-801-A/400	TRAILING ARM OF THE MAIN LANDING GEAR - INSTALLATION
AMM TASK 32-41-03-400-801-A/400	WHEEL SPEED TRANSDUCER - INSTALLATION
AMM TASK 32-47-01-400-801-A/400	TEMPERATURE SENSORS - INSTALLATION
AMM TASK 32-50-06-400-801-A/400	7-DEGREE PROXIMITY SWITCH - INSTALLATION
AMM TASK 32-50-07-400-801-A/400	FEEDBACK UNIT (POTENTIOMETER) - INSTALLATION
AMM TASK 32-61-01-400-801-A/400	UPLOCK PROXIMITY SWITCH - INSTALLATION
AMM TASK 32-61-02-400-801-A/400	DOWNLOCK PROXIMITY SWITCH - INSTALLATION
AMM TASK 32-63-01-400-801-A/400	AIR/GROUND (WOW) PROXIMITY SWITCH OF MLG - INSTALLATION
AMM TASK 32-63-02-400-801-A/400	AIR/GROUND (WOW) PROXIMITY SWITCH OF NLG - INSTALLATION
AMM TASK 33-41-02-400-802-A/400	LANDING LIGHT ASSEMBLY - INSTALLATION
AMM TASK 33-42-02-400-802-A/400	NOSE-LANDING-GEAR TAXI LIGHT ASSEMBLY - INSTALLATION

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
Not Applicable
- I. Location of Electrical Harness and Wires on the Landing Gear

SUBTASK 800-002-A

- (1) Wheel speed transducer:

NOTE: Procedure to install the wheel speed transducer [AMM TASK 32-41-03-400-801-A/400](#).

- (a) The harness W514 is installed on the MLG leg, and fixed through the clamps, ([Figure 201](#)), ([Figure 202](#)) and ([Figure 203](#)).
- (b) Procedure to install the wires of the wheel speed transducer into the landing gear [AMM TASK 32-10-08-400-801-A/400](#).

- (2) Brake temperature sensors:

NOTE: Procedure to install the brake temperature sensors [AMM TASK 32-47-01-400-801-A/400](#).

- (a) The harness W512 is installed on the MLG LH and on the MLG RH, and both are fixed through the clamps and tie-down straps ([Figure 201](#)), ([Figure 202](#)) and ([Figure 203](#)).

- (3) Proximity sensors:

- (a) Uplock sensors:

NOTE: Procedure to install the uplock proximity sensor [AMM TASK 32-61-01-400-801-A/400](#).

- 1 Main landing gear:

- a The harness W502 and W508 are installed on the MLG uplock box ([Figure 201](#)) and ([Figure 202](#)).

- 2 Nose landing gear:

- a The harness W012 and W014 are installed on the NLG uplock box ([Figure 204](#)).

- (b) Downlock Sensor:

NOTE: Procedure to install the downlock proximity sensor [AMM TASK 32-61-02-400-801-A/400](#).

- 1 Main landing gear:
 - a The harness W511 and W503 or W513 or W603 are installed on MLG auxiliary brace strut ([Figure 201](#)) and ([Figure 202](#)).
 - 2 Nose landing gear:
 - a The harness W016 and W017 are installed on NLG auxiliary brace strut ([Figure 204](#)) DET. B.
- (c) Weight on wheel (WOW) or Air/ground sensors:
- 1 Main landing gear:

NOTE: Procedure to install the MLG WOW sensors [AMM TASK 32-63-01-400-801-A/400](#).

 - a The harness W510 and W509 are installed on MLG leg (rear and front position respectively) ([Figure 201](#)), ([Figure 202](#)) and ([Figure 203](#)).
 - 2 Nose landing gear:

NOTE: Procedure to install the NLG WOW sensor [AMM TASK 32-63-02-400-801-A/400](#).

 - a The harness W019 is installed on NLG main brace strut ([Figure 204](#)).
- (4) Steering sensors:
- (a) Feedback units (7-degree proximity switch and potentiometer):

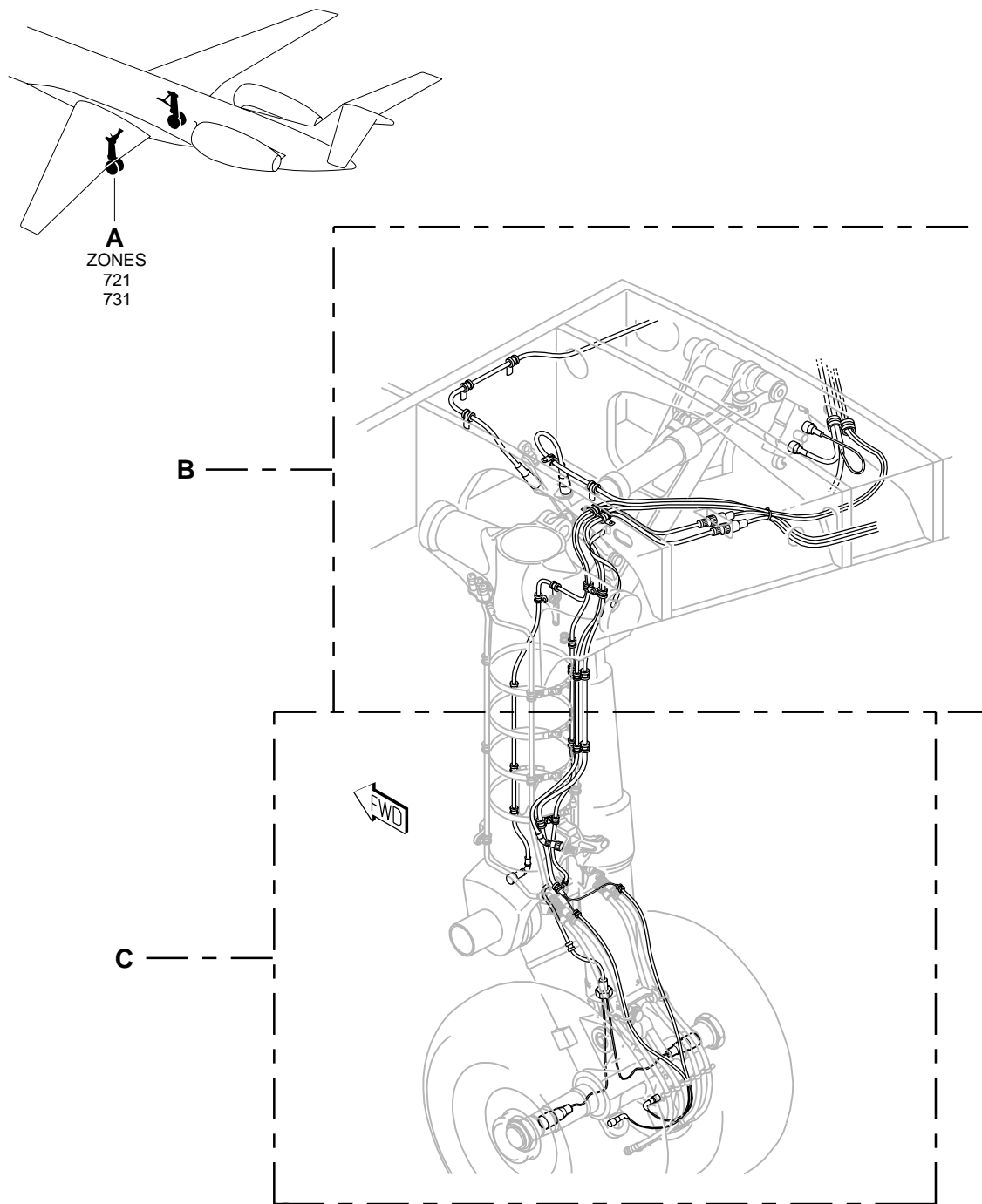
NOTE: Procedure to install the 7-degree proximity switch and potentiometer [AMM TASK 32-50-06-400-801-A/400](#) and [AMM TASK 32-50-07-400-801-A/400](#).

 - 1 The harness W015 and connectors: P1844 and P0054, are installed on NLG main brace strut ([Figure 204](#)) and ([Figure 205](#)) View C.
- (5) Nose landing gear lights cables:
- NOTE: Procedure to install the NLG lights [AMM TASK 33-41-02-400-802-A/400](#) and [AMM TASK 33-42-02-400-802-A/400](#).
- (a) NLG lights:
 - 1 The harness W020 and connectors: DS0066, DS0067, and DS0068 are installed on main brace strut of the NLG ([Figure 204](#)) DET. B.
- (6) Electrically bonding landing gear/aircraft:
- NOTE: Procedure to do the electrical bonding maintenance practices [AMM TASK 20-13-21-910-801-A/200](#).
- (a) Main landing gear:
 - 1 The bondings are installed on MLG ([Figure 202](#)) DET. B.

(b) Nose landing gear:

- 1 The bondings are installed on NLG ([Figure 204](#)) DET. B.

EFFECTIVITY: ALL
 Main Landing Gear
 Figure 201



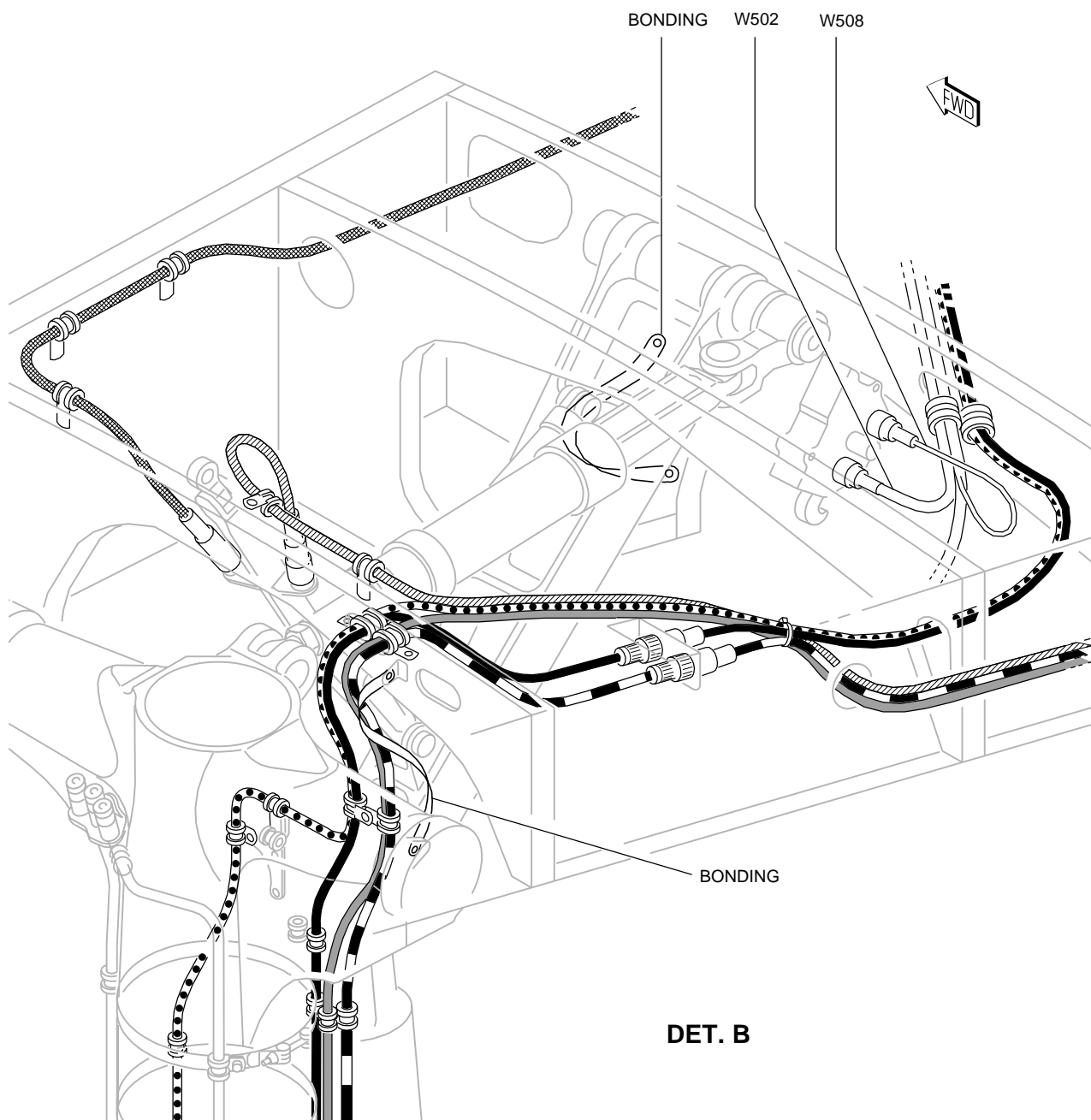
DET. A

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EFFECTIVITY: ALL

Main Landing Gear - Upper

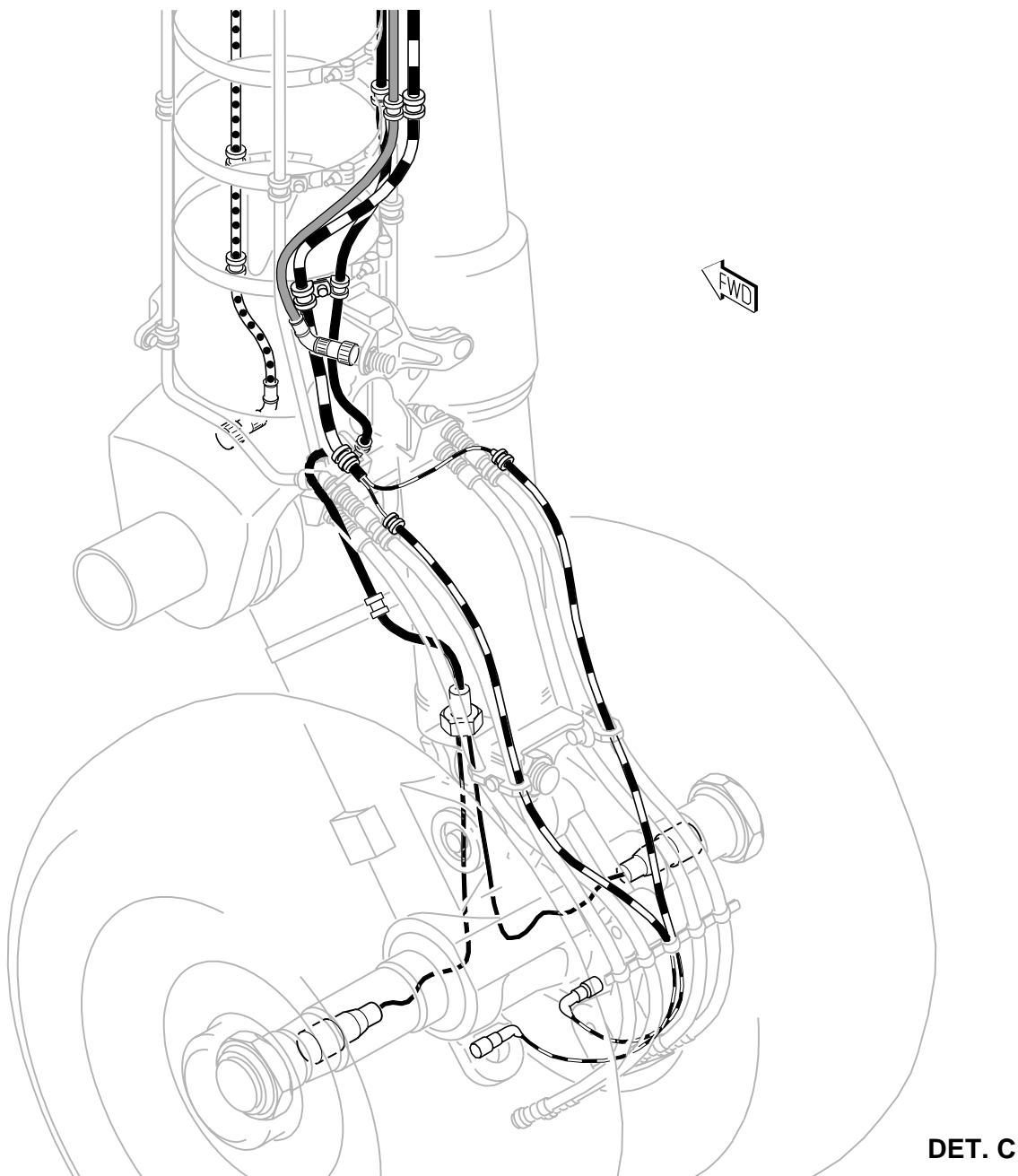
Figure 202






	W509
	W510
	W512 (LH) AND (RH)
	W514
	W511
	W503 OR W603 OR W513

EM145AMM320351B.DGN

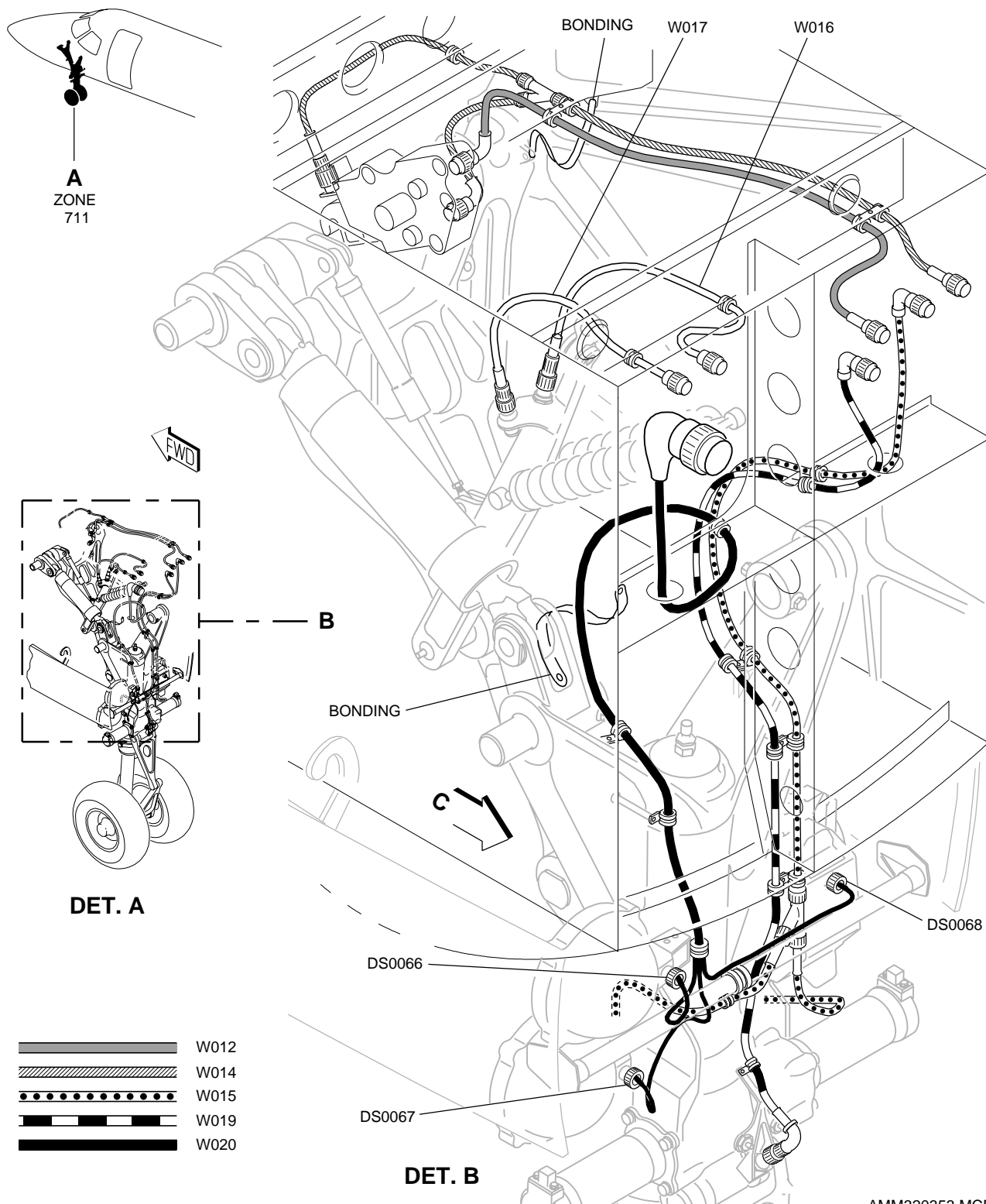
EFFECTIVITY: ALL
 Main Landing Gear - Lower
 Figure 203



	W509
	W510
	W512 (LH) AND (RH)
	W514
	W511
	W503 OR W603 OR W513

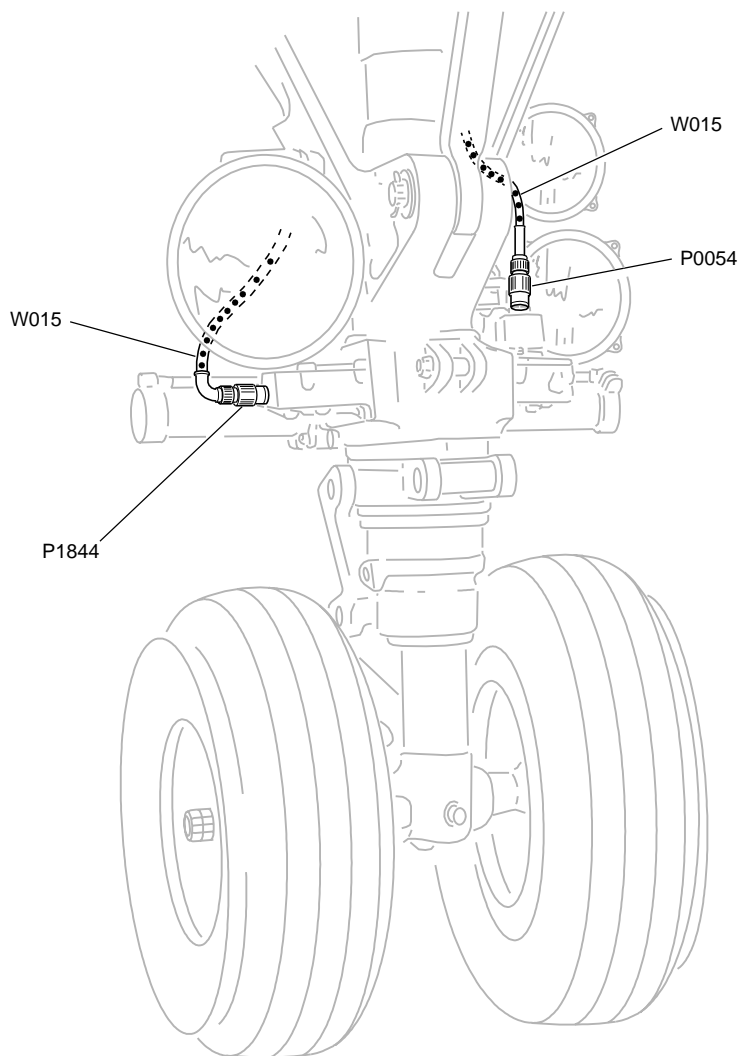
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EFFECTIVITY: ALL
Nose Landing Gear - Upper
Figure 204



AMM320353.MCE

EFFECTIVITY: ALL
Nose Landing Gear - Lower
Figure 205



VIEW C

145AMM320354.MCE