

## WHEEL SPEED TRANSDUCER - REMOVAL/INSTALLATION

*EFFECTIVITY: ALL*

1. General

- A. This section gives the procedures to remove and install the wheel speed transducer.
- B. This procedure is applicable to the four wheel speed transducers (one for each wheel).
- 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
32-41-03-000-801-A	WHEEL SPEED TRANSDUCER - REMOV- AL	ALL
32-41-03-400-801-A	WHEEL SPEED TRANSDUCER - INSTAL- LATION	ALL

TASK 32-41-03-000-801-A

EFFECTIVITY: ALL

## 2. WHEEL SPEED TRANSDUCER - REMOVAL

### A. General

(1) This task gives the procedures to remove the wheel speed transducer.

### B. Zones and Accesses

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

### C. Tools and Equipment

ITEM	DESCRIPTION	PURPOSE	QTY
<a href="#">GSE 106</a>	Extractor	To remove the wheel speed transducer	

### D. Auxiliary Items

Not Applicable

### E. Consumable Materials

Not Applicable

### F. Expandable Parts

Not Applicable

### G. Persons Recommended

QTY	FUNCTION	PLACE
1	Does the task	LH and RH MLG

### H. Preparation

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

(1) Make sure that the landing-gear safety pins are installed on the main landing gears.

(2) Remove the hub cap.

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

#### *SUBTASK 020-002-A*

(1) Remove the hub cap (1).

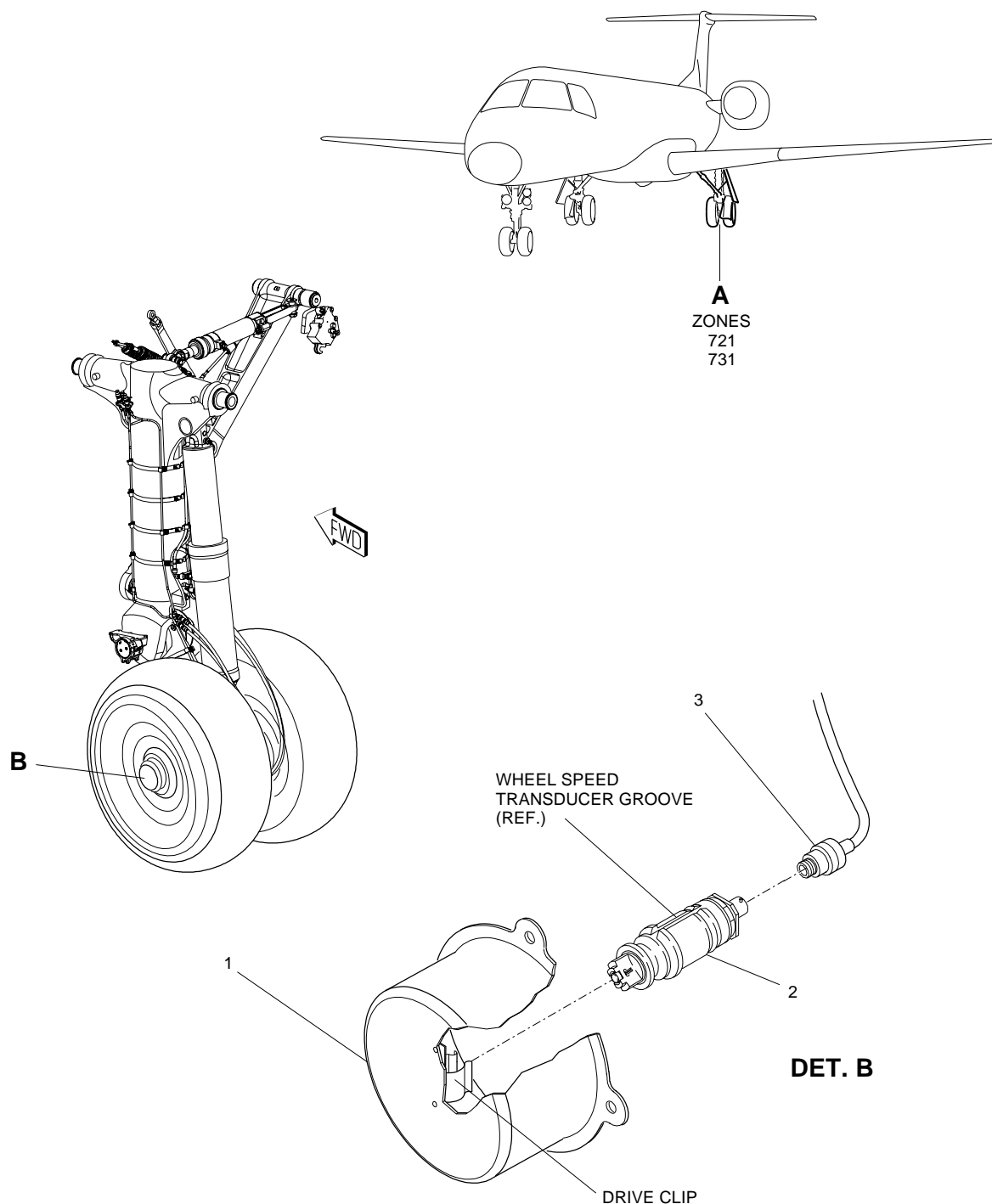
(2) Remove the wheel speed transducer (2) with extractor GSE 106.

(3) Disconnect the electrical connector (3) from the wheel speed transducer (2).

EFFECTIVITY: ALL

Wheel Speed Transducer - Removal/Installation

Figure 401



EM145AMM320097C.DGN

TASK 32-41-03-400-801-A

EFFECTIVITY: ALL

### 3. WHEEL SPEED TRANSDUCER - INSTALLATION

#### A. General

(1) This task gives the procedures to install the wheel speed transducer.

#### B. References

REFERENCE	DESIGNATION
<a href="#">AMM TASK 20-40-01-860-801-A/200</a>	ENERGIZATION OF THE AIRCRAFT WITH AN EXTERNAL POWER SOURCE
<a href="#">AMM TASK 32-41-00-700-801-A/500</a>	MAIN BRAKE SYSTEM - FUNCTIONAL CHECK
<a href="#">AMM TASK 32-49-02-200-801-A/600</a>	MLG WHEEL ASSEMBLY - INSPECTION

#### C. Zones and Accesses

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

#### D. Tools and Equipment

ITEM	DESCRIPTION	PURPOSE	QTY
<a href="#">GSE 050</a>	Multimeter, digital	To do the check	

#### E. Auxiliary Items

Not Applicable

#### F. Consumable Materials

SPECIFICATION (BRAND)	DESCRIPTION	QTY
MIL-L-87177	Lektro-Tech Super Corr-A	As necessary

#### G. Expandable Parts

Not Applicable

#### H. Persons Recommended

QTY	FUNCTION	PLACE
1	Does the task	LH and RH MLG

I. Installation (Figure 401)

SUBTASK 420-002-A

**WARNING: BE CAREFUL WHEN YOU ROUTE THE INBOARD AND OUTBOARD WHEEL-SPEED TRANSDUCER HARNESSSES. A CROSS CONNECTION CAN CAUSE LOSS OF STEERABILITY. DAMAGE TO EQUIPMENT AND INJURY TO PERSONNEL WILL THEN OCCUR.**

- (1) To make sure that the inboard and outboard wheel-speed transducer harnesses are routed to the correct positions, do as follows:
  - (a) Energize the aircraft. Refer to [AMM TASK 20-40-01-860-801-A/200](#).
  - (b) Make sure that the BRAKES OUTBD circuit breaker is closed.
  - (c) Open the BRAKES INBD circuit breaker
  - (d) At the outboard wheel-speed transducer harness connector (P1051), with the aid of a multimeter, make sure that there is approximately 10 mA between contacts A and B.
  - (e) At the inboard wheel-speed transducer harness connector (P1052), with the aid of a multimeter, make sure that the current is zero between contacts A and B.
  - (f) Close the BRAKES INBD circuit breaker.
  - (g) Deenergize the aircraft.
- (2) Connect the electrical connector (3) to the wheel speed transducer (2).

**NOTE:** • Make sure that the wiring of the wheel speed transducer (2) is correctly installed. Connector P1051 must be at the outboard wheel and connector P1052 must be at the inboard wheel.

- Before the installation of the connector, apply Lektro-Tech Super Corr-A into the plug connector to prevent corrosion and clean the contacts.

- (3) Before you push the wheel speed transducer (2) into the wheel axle, make sure that you rotate the wheel speed transducer until its groove is aligned with the pin of the wheel axle.
- (4) Install the speed transducer (2) on the wheel axle.

J. Follow-on

SUBTASK 842-002-A

**CAUTION:** • EXAMINE THE DRIVE CLIP FOR THE ATTACHMENT TO THE HUB CAP (1) AND FOR THE GAP. IF NECESSARY, THE GAP CAN BE ADJUSTED ([AMM TASK 32-49-02-200-801-A/600](#)).

- DAMAGE TO THE DRIVE CLIP CAN MAKE THE BRAKING EFFECT UNSATISFACTORY DURING THE TAXIING OF THE AIRCRAFT AT LOW SPEED (LESS THAN 25 KNOTS).

- (1) Do the functional check of the main brake system ( [AMM TASK 32-41-00-700-801-A/500](#)).
- (2) Put the hub cap (1) and gasket on the axle which moves the wheel speed transducer (2). Make sure that the hub-cap (1) drive clip is correctly engaged to the transducer driving axle.
- (3) Install the washers and bolts which attach the hub cap (1).