



## AIRCRAFT MAINTENANCE MANUAL

### MOTOR/CONVERTER - REMOVAL/INSTALLATION

EFFECTIVITY: AIRCRAFT WITH WINDSHIELD WIPER SYSTEM

#### 1. General

- A. This section gives the procedures to remove and install the motor/converter units of the windshield wiper system.
- B. These procedures are applicable to the LH and RH motor/converter units.
- 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
30-41-02-000-801-A	MOTOR/CONVERTER UNIT - REMOVAL	AIRCRAFT WITH WINDSHIELD WIPER SYSTEM
30-41-02-400-801-A	MOTOR/CONVERTER UNIT - INSTALLA- TION	AIRCRAFT WITH WINDSHIELD WIPER SYSTEM



EMB145 - EMB135

AIRCRAFT  
MAINTENANCE MANUAL

TASK 30-41-02-000-801-A

EFFECTIVITY: AIRCRAFT WITH WINDSHIELD WIPER SYSTEM

2. MOTOR/CONVERTER UNIT - REMOVAL

A. General

- (1) This procedure gives the instructions to remove the motor/converter unit.

B. References

REFERENCE	DESIGNATION
AMM MPP 06-41-01/100	-
<a href="#">AMM TASK 30-41-03-000-801-A/400</a>	ARM/BLADE ASSEMBLY - REMOVAL
SRM 51-20-01	-

C. Zones and Accesses

ZONE	PANEL/DOOR	LOCATION
113	113CZ	Forward electronic compartment

D. Tools and Equipment

Not Applicable

E. Auxiliary Items

ITEM	DESCRIPTION	PURPOSE	QTY
Commercially available	Plastic or wooden spatula	To remove the sealant	1

F. Consumable Materials

Not Applicable

G. Expandable Parts

Not Applicable

H. Persons Recommended

QTY	FUNCTION	PLACE
1	Does the task	Forward electronic compartment

I. Preparation

SUBTASK 841-003-A

- (1) On the overhead Circuit Breaker Panel, open the circuit breakers below and attach a DO-NOT-CLOSE tag to them.
  - WIPER 1 (Location tip: DC BUS 1/ICE AND RAIN PROTECTION/WIPER 1).
  - WIPER 2 (Location tip: DC BUS 2/ICE AND RAIN PROTECTION/WIPER 2).
- (2) Remove the arm/blade assembly ([AMM TASK 30-41-03-000-801-A/400](#)).



- (3) Open access door 113CZ (AMM MPP 06-41-01/100).
- (4) Remove the thermal insulating blanket from the motor/converter unit.

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

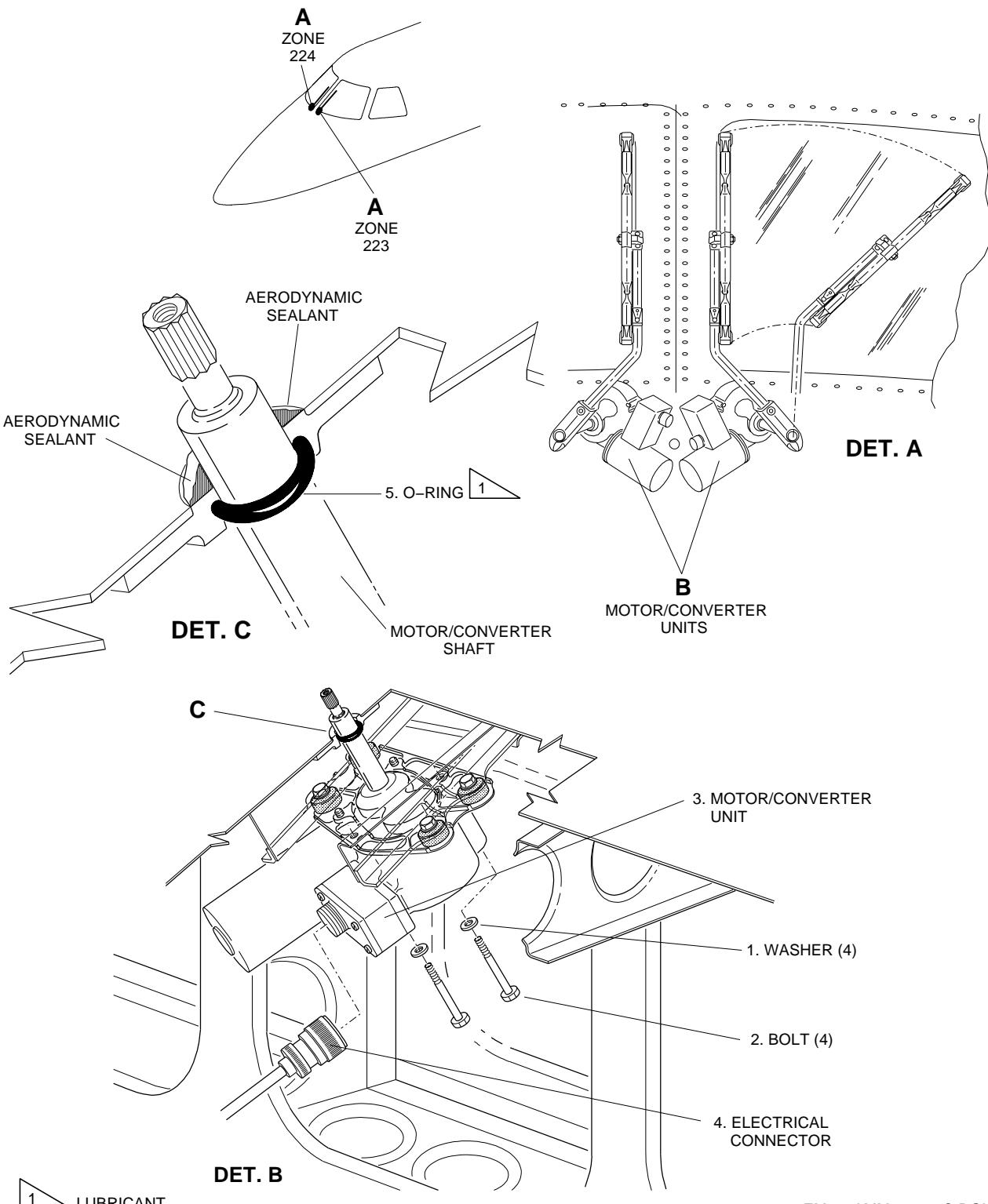
SUBTASK 020-003-A

- (1) Disconnect the electrical connector (4).
- (2) Remove all the old sealant with a plastic or wooden spatula, and prepare the surface (SRM 51-20-01).
- (3) Remove the four bolts (2) and washers (1).
- (4) Remove the motor/converter unit (3).
- (5) Remove the O-ring (5) and discard it.

**EFFECTIVITY: AIRCRAFT WITH WINDSHIELD WIPER SYSTEM**

Motor/Converter Unit - Removal/Installation

Figure 401



EM145AMM300010C.DGN



AIRCRAFT  
MAINTENANCE MANUAL

TASK 30-41-02-400-801-A

EFFECTIVITY: AIRCRAFT WITH WINDSHIELD WIPER SYSTEM

3. MOTOR/CONVERTER UNIT - INSTALLATION

A. General

- (1) This procedure gives the instructions to install the motor/converter unit.

B. References

REFERENCE	DESIGNATION
AMM MPP 06-41-01/100	-
AMM TASK 30-41-00-700-801-A/500	WINDSHIELD WIPER SYSTEM - OPERATIONAL TEST
AMM TASK 30-41-03-400-801-A/400	ARM/BLADE ASSEMBLY - INSTALLATION
SRM 51-20-01	-

C. Zones and Accesses

ZONE	PANEL/DOOR	LOCATION
113	113CZ	Forward electronic compartment

D. Tools and Equipment

Not Applicable

E. Auxiliary Items

Not Applicable

F. Consumable Materials

SPECIFICATION (BRAND)	DESCRIPTION	QTY
MIL-PRF-81733, Type II - Class B	Aerodynamic Sealant, PR-2050 B-1/2	AR
Molykote DC-33 light	Lubricant	AR

G. Expandable Parts

Not Applicable

H. Persons Recommended

QTY	FUNCTION	PLACE
1	Does the task	Forward electronic compartment

I. Installation (Figure 401)

SUBTASK 420-003-A

- (1) Lubricate the new O-ring (5) with a thin layer of Molykote DC-33.
- (2) Install the O-ring (5) in the airframe orifice.



EMB145 - EMB135

AIRCRAFT  
MAINTENANCE MANUAL

- (3) Put the motor/converter unit (3) on the structure of forward fuselage section II.
- (4) Install the four bolts (2) and washers (1).
- (5) Connect the electrical connector (4).
- (6) Apply the aerodynamic sealant between the motor/converter shaft and the structure (SRM 51-20-01).

J. Follow-on

SUBTASK 842-003-A

- (1) Install the arm/blade assembly ( [AMM TASK 30-41-03-400-801-A/400](#)).
- (2) On the overhead Circuit Breaker Panel, close the circuit breakers below and remove the DO-NOT-CLOSE tag from them.
  - WIPER 1 (Location tip: DC BUS 1/ICE AND RAIN PROTECTION/WIPER).
  - WIPER 2 (Location tip: DC BUS 2/ICE AND RAIN PROTECTION/WIPER).
- (3) Install the thermal insulating blanket to the motor/converter unit.
- (4) Close access door 113CZ (AMM MPP 06-41-01/100).
- (5) Do an operational check of the Windshield Wiper System ( [AMM TASK 30-41-00-700-801-A/500](#)).