

**ELECTRIC FUEL PUMP - REMOVAL/INSTALLATION**

*EFFECTIVITY: ALL*

1. General

- A. This section gives the procedures to do the removal/installation and deactivation/activation of the electrical fuel pumps.

They are letter-coded and the alphabetical sequence is obeyed from the leading edge to the trailing edge of the wing.

- 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).

<i>TASK NUMBER</i>	<i>DESCRIPTION</i>	<i>EFFECTIVITY</i>
28-21-01-000-801-A	ELECTRICAL FUEL PUMP - REMOVAL	ACFT WITH WET WINGSTUB
28-21-01-400-801-A	ELECTRICAL FUEL PUMP - INSTALLATION	ACFT WITH WET WINGSTUB
28-21-01-000-802-A	ELECTRICAL FUEL PUMP - REMOVAL	ACFT WITH DRY WINGSTUB
28-21-01-400-802-A	ELECTRICAL FUEL PUMP - INSTALLATION	ACFT WITH DRY WINGSTUB
28-21-01-040-801-A	ELECTRICAL FUEL PUMP - DEACTIVATION	ALL
28-21-01-440-801-A	ELECTRICAL FUEL PUMP - REACTIVATION	ALL

TASK 28-21-01-000-801-A

*EFFECTIVITY: ACFT WITH WET WINGSTUB*

## 2. ELECTRICAL FUEL PUMP - REMOVAL

### A. General

- (1) This task is applicable to the electrical fuel pump installed in the RH and LH fuel tanks.
- (2) The electrical fuel pump connector at the tank wall is a Critical Design Configuration Control Limitation (CDCCL) item of the Airworthiness Limitations of the Aircraft Maintenance Program. The faying surface between the fuel pump connector and the tank wall must be in good conditions to make the electrical bonding satisfactory.

### B. References

REFERENCE	DESIGNATION
AMM MPP 06-41-01/100	-
<a href="#">AMM MPP 28-00-00/200</a>	- MAINTENANCE PRACTICES
<a href="#">AMM TASK 12-11-01-600-802-A/300</a>	FUEL-TANK PRESSURE DEFUELING - SERVICING
<a href="#">AMM TASK 28-11-01-000-801-A/400</a>	FUEL-TANK ACCESS PANELS - REMOVAL
<a href="#">SB145-28-0030</a>	-

### C. Zones and Accesses

ZONE	PANEL/DOOR	LOCATION
155	155BZ	LH wing stub undersurface
155	155CZ	LH internal fuel tank
155	155DZ	LH main landing gear
155	155EZ	LH main landing gear
156	156BZ	RH wing stub undersurface
156	156CZ	RH internal fuel tank
156	156DZ	RH main landing gear
156	156EZ	RH main landing gear
192	192AL	Center lower fairing
192	192BR	Center lower fairing

### D. Tools and Equipment

Not Applicable

### E. Auxiliary Items

Not Applicable

### F. Consumable Materials

Not Applicable

### G. Expandable Parts

Not Applicable

H. Persons Recommended

QTY	FUNCTION	PLACE
1	Does the task	Fuel tank

I. Preparation

*SUBTASK 841-002-A*

- (1) Make sure that the aircraft is safe for maintenance.
- (2) Defuel the applicable fuel tank ( [AMM TASK 12-11-01-600-802-A/300](#)).
- (3) On the circuit breaker panel, open these circuit breakers and attach a DO-NOT-CLOSE tag to them:
  - FUEL PUMPS - 1A, 1B, 1C (2A, 2B, 2C).
- (4) Remove these access panels (AMM MPP 06-41-01/100 and [AMM TASK 28-11-01-000-801-A/400](#)) as applicable, to get access to the electrical fuel pumps.
  - (a) LH fuel tank:
    - 155BZ/155CZ.
  - (b) RH fuel tank:
    - 156CZ/156BZ.
  - (c) Center lower fairing:
    - 192AL/192BR.
  - (d) LH main landing gear:
    - 155DZ/155EZ.
  - (e) RH main landing gear:
    - 156DZ/156EZ.

J. Removal ([Figure 401](#)) ([Figure 402](#)) ([Figure 403](#))

*SUBTASK 020-002-A*

**WARNING: BEFORE YOU DO THE TASK, OBEY THE SAFETY PRECAUTIONS GIVEN IN [AMM MPP 28-00-00/200](#) TO PREVENT INJURY TO PERSONS AND DAMAGE TO THE MATERIAL.**

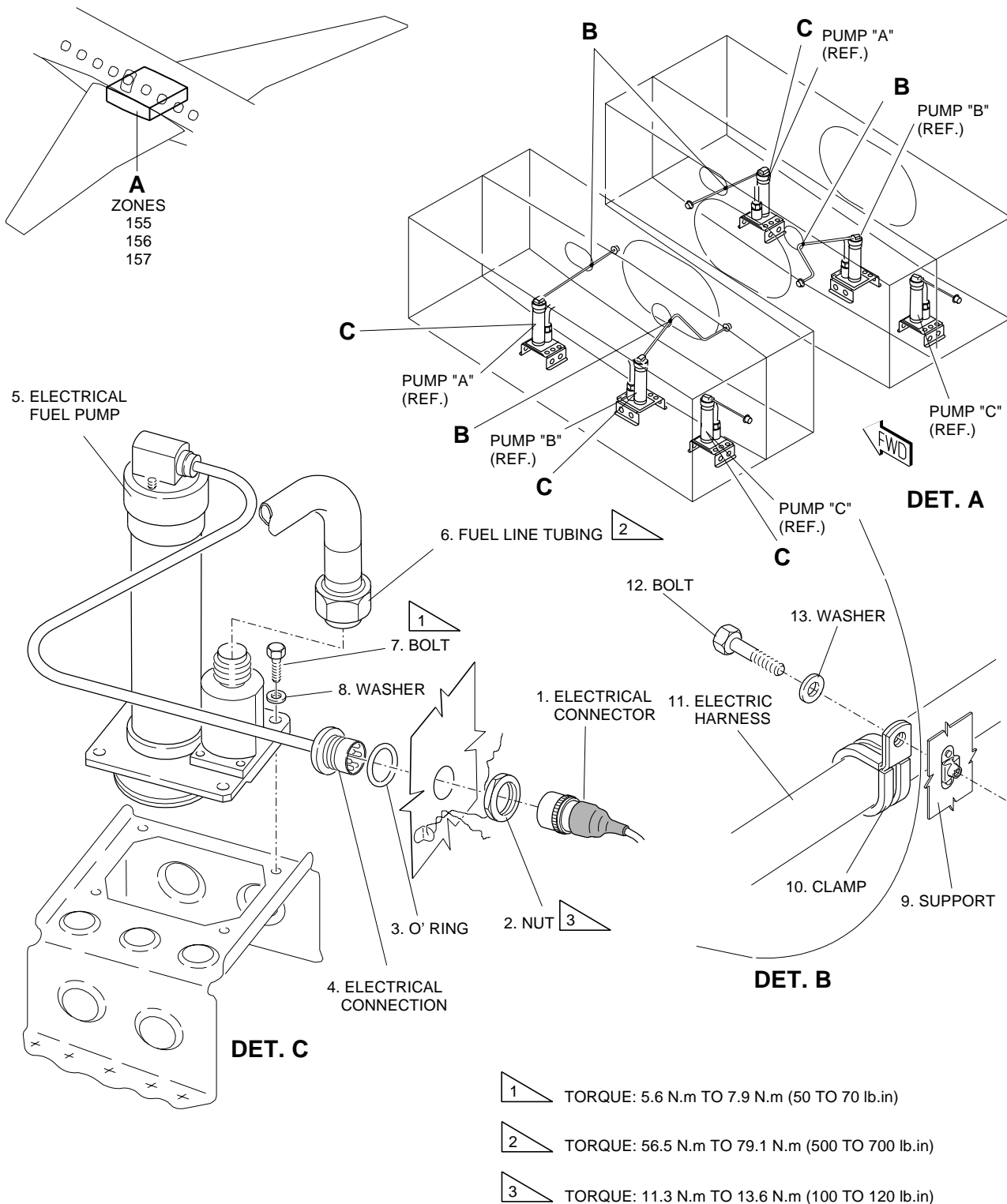
- (1) Disconnect the electrical connector (1).
- (2) Cut the lockwire to remove the nut (2) and remove the electrical connector (4) from its housing. Remove and discard the O-ring (3).
- (3) Disconnect the fuel line tubing (6) from the electrical fuel pump (5).
- (4) (FOR ACFT WITH ELECTRICAL HARNESS CLAMP ON THE FUEL LINE TUBING PUMP 1A, 1C AND 2A OR POST-MOD [SB145-28-0030](#)) Remove the nut (1), washer

- (2), screw (5) and clamps (3) (4), and release the electrical harness. Refer to [Figure 402](#) or [Figure 403](#), as applicable.
- (5) Remove the bolt (12), washer (13), and clamp (10), and release the electrical harness (11).
  - (6) Remove the bolts (7) and washers (8), which attach the electrical fuel pump to the wing support, and remove the electrical fuel pump.
  - (7) Install protection caps to the disconnected points.

**EFFECTIVITY: ACFT WITH WET WINGSTUB**

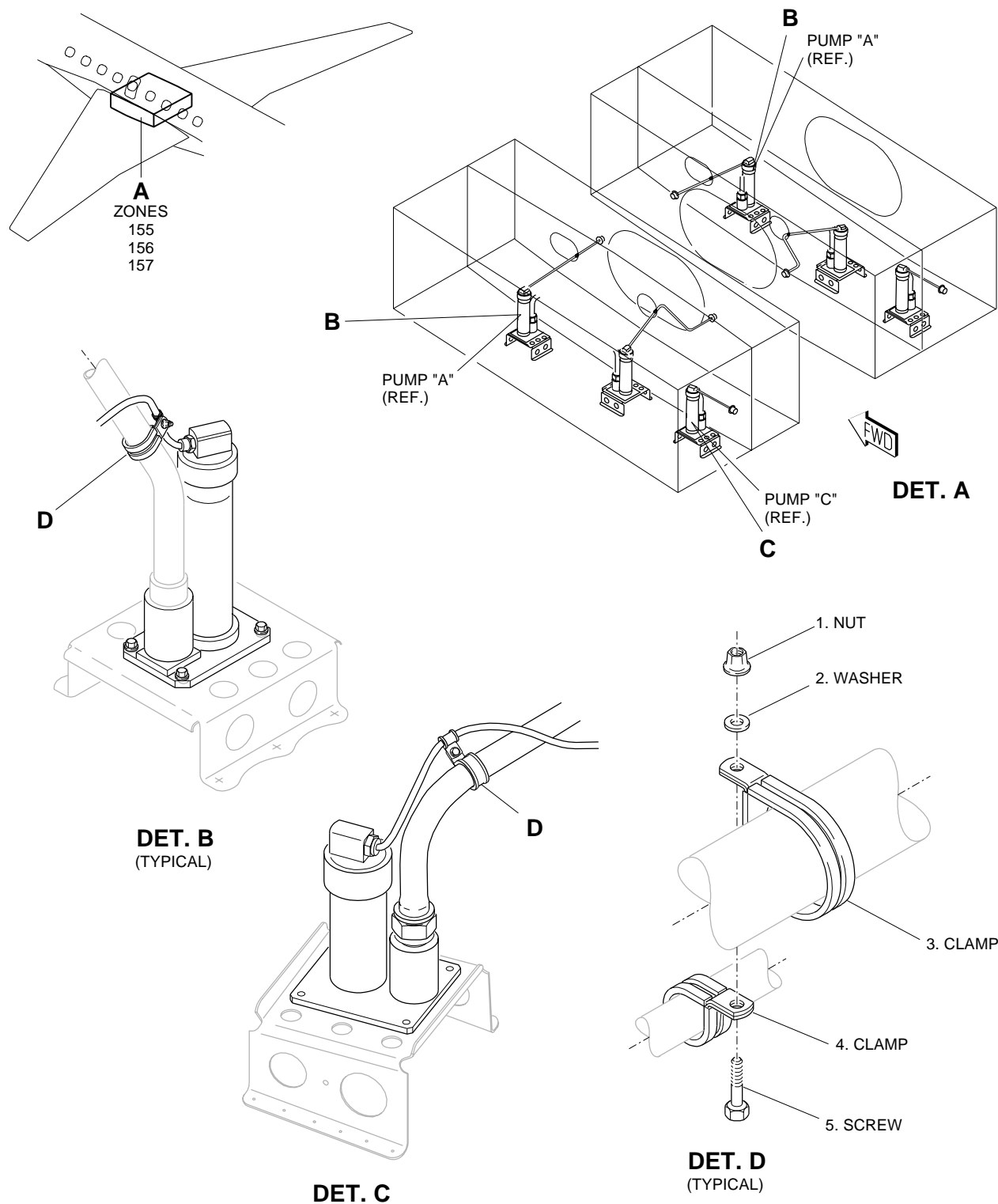
**Electrical Fuel Pump - Removal/Installation**

**Figure 401**



EM145AMM280133G.DGN

**EFFECTIVITY: FOR ACFT WITH ELECTRICAL HARNESS CLAMP ON THE FUEL LINE TUBING PUMP 1A, 1C AND 2A AND PRE-MOD SB 145-28-0030**  
Electrical Fuel Pump Clamp - Removal/Installation  
Figure 402

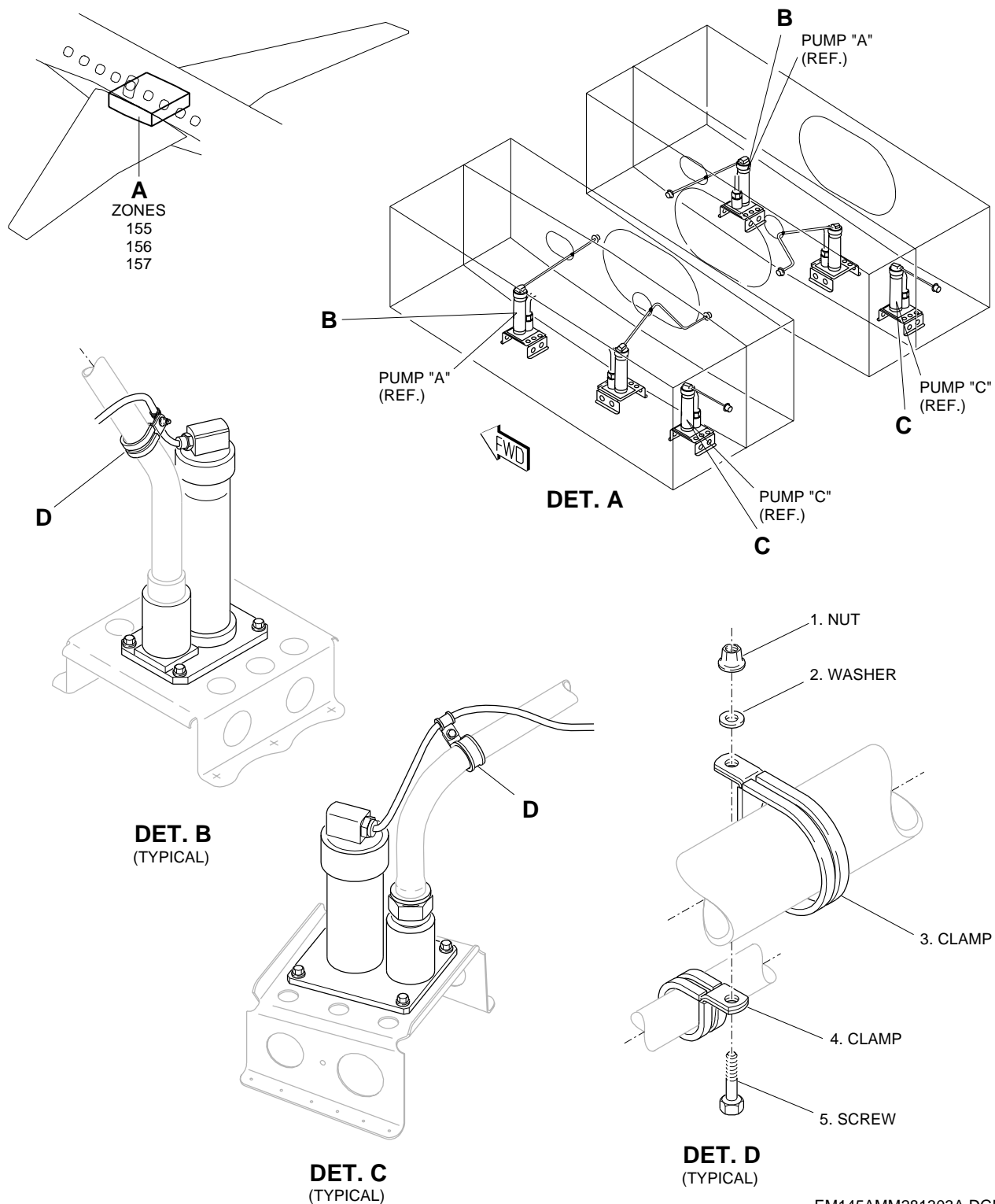


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EFFECTIVITY: FOR ACFT POST-MOD SB 145-28-0030

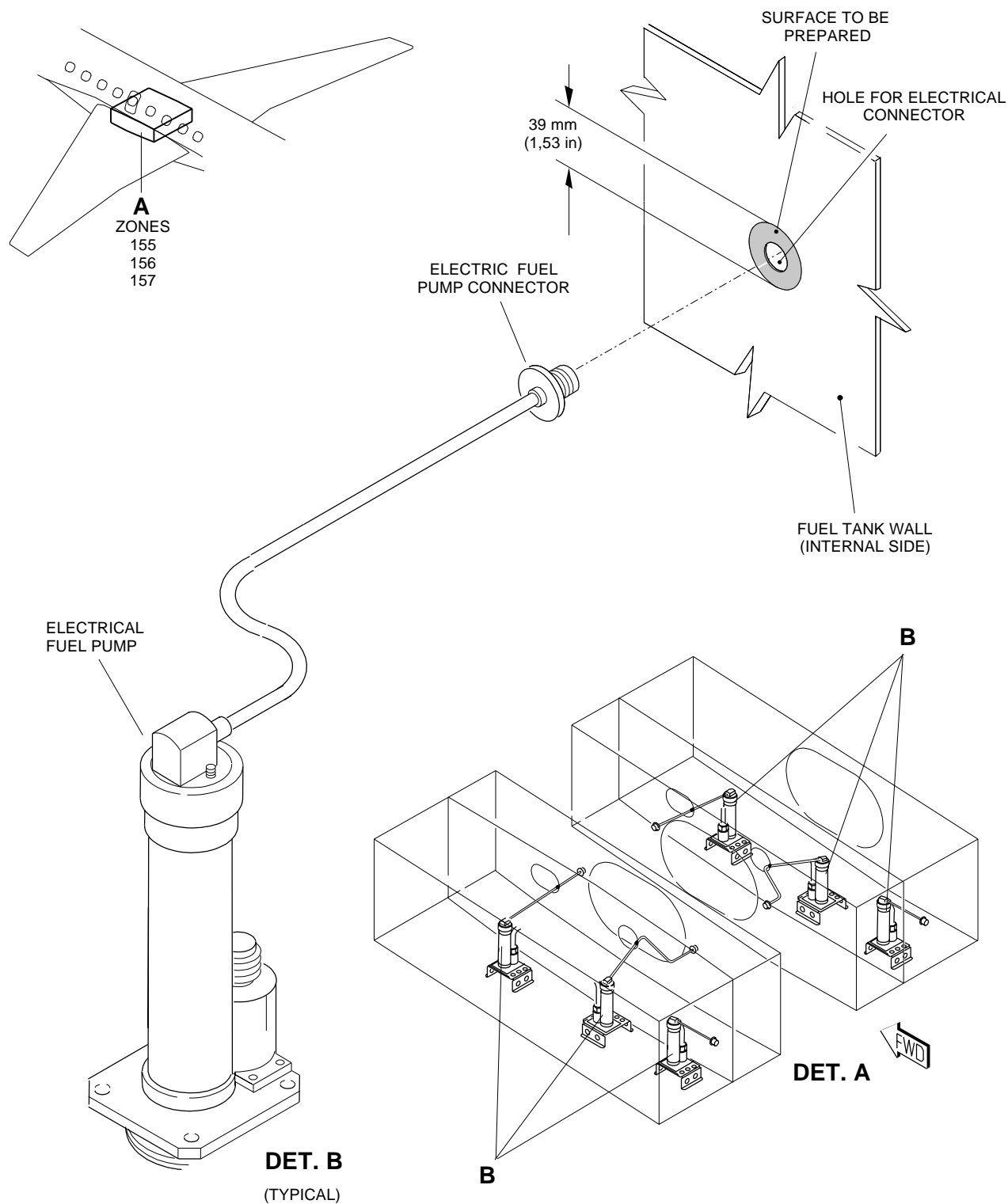
Electrical Fuel Pump Clamp - Removal/Installation

Figure 403



EM145AMM281303A.DGN

**EFFECTIVITY: ACFT WITH WET WINGSTUB**  
Electrical Fuel Pump Connector - Bonding Preparation  
Figure 404



145AMM280910.MCE



TASK 28-21-01-400-801-A

EFFECTIVITY: ACFT WITH WET WINGSTUB

### 3. ELECTRICAL FUEL PUMP - INSTALLATION

#### A. General

- (1) This task is applicable to the electrical fuel pumps installed in the RH and LH fuel tanks.
- (2) The electrical fuel pump connector at the tank wall is a Critical Design Configuration Control Limitation (CDCCL) item of the Airworthiness Limitations of the Aircraft Maintenance Program. The faying surface between the fuel pump connector and the tank wall must be in good conditions to make the electrical bonding satisfactory.

#### B. References

REFERENCE	DESIGNATION
AMM MPP 06-41-01/100	-
AMM MPP 28-00-00/200	- MAINTENANCE PRACTICES
AMM MPP 28-11-01/400	- REMOVAL/INSTALLATION
AMM TASK 12-11-01-600-801-A/300	FUEL-TANK PRESSURE REFUELING - SERVICING
AMM TASK 20-13-21-910-801-A/200	TYPES OF ELECTRICAL BONDING AND SURFACE PREPARATION - STANDARD PROCEDURES
AMM TASK 20-13-21-910-802-A/200	ELECTRICAL BONDING PROTECTION - STANDARD PROCEDURES
AMM TASK 28-41-00-200-801-A/600	-
AMM TASK 28-45-00-700-801-A/500	FUEL LOW-PRESSURE WARNING SYSTEM - OPERATIONAL CHECK
IPC 28-21-00	SUPPLY SYSTEM
SB145-28-0030	-

#### C. Zones and Accesses

ZONE	PANEL/DOOR	LOCATION
155	155BZ	LH wing stub undersurface
155	155CZ	LH internal fuel tank
155	155DZ	LH main landing gear
155	155EZ	LH main landing gear
156	156BZ	RH wing stub undersurface
156	156CZ	RH internal fuel tank
156	156DZ	RH main landing gear
156	156EZ	RH main landing gear
192	192AL	Center lower fairing
192	192BR	Center lower fairing

D. Tools and Equipment

ITEM	DESCRIPTION	PURPOSE	QTY
Commercially available	Torque Wrench - (Torque Range - Ref. Figure 401)	To apply controlled torque	

E. Auxiliary Items

ITEM	DESCRIPTION	PURPOSE	QTY
Commercially available	Brush	To apply the remover	AR
Commercially available	Cloth	To clean	AR
Commercially available	Acrylic Spatula	To clean	AR

F. Consumable Materials

SPECIFICATION (BRAND)	DESCRIPTION	QTY
Molykote DC-33 Light or equivalent	Grease	AR
MIL-L-87177A, Type 1, grade B	Anti-corrosion product	AR
MEP-21-016	Ardrox 2871	AR
AMS 1375 B	Dasic D 23 (alternative to Ardrox 2871)	AR
MIL-C-81706	Alodyne 1200S	AR
MIL-C-81706A	Alodyne 1201 (alternative to Alodyne 1200S)	AR
MEP-13-073	Rhodiasolve E-23 - Solvent	AR
ASTM-D-740	Methyl Ethyl Ketone (MEK) (alternative to Rhodiasolve E-23 - Solvent)	AR

G. Expendable Parts

ITEM	IPC REFERENCE (VENDOR REFERENCE)	QTY
O-ring	IPC 28-21-00	1

H. Persons Recommended

QTY	FUNCTION	PLACE
1	Does the task	Fuel tank

I. Installation (Figure 401) (Figure 402) (Figure 403) (Figure 404)

SUBTASK 420-002-A

**WARNING:** BEFORE YOU DO THE TASK, OBEY THE SAFETY PRECAUTIONS GIVEN IN **AMM MPP 28-00-00/200** TO PREVENT INJURY TO PERSONS AND DAMAGE TO THE MATERIAL.

- (1) Do a check to know if the hole for the electrical fuel pump connector in the internal side of the fuel tank wall is prepared for bonding. If the electrical connector hole is not prepared, do steps from (a) to (e) (Figure 404). If the surface is prepared, go to step (2):

NOTE: The surface is prepared when its painting is removed.

- (a) Determine the area to be bonded:
  - 1 Do a mark around the hole for the electrical connector in the fuel tank wall. This mark must be 39 mm (1.53 inch) in diameter.
- (b) Remove the nonconductive coating from the area to be bonded
  - 1 Apply a brush impregnated with Ardrex 2871.
  - 2 Remove the coating with an acrylic spatula.

**WARNING: DO NOT MIX ALODYNE WITH ORGANIC SOLVENTS (ALCOHOLS, KETONES, ETC.). WHEN YOU MIX ALODYNE AND ORGANIC SOLVENTS, AN EXPLOSION CAN OCCUR AND CAUSE INJURY TO PERSONNEL AND DAMAGE TO EQUIPMENT.**

**CAUTION: DO NOT PUT CLEANING CLOTHS, BRUSH, OR SPONGES INTO SOLVENT CONTAINER TO PREVENT SOLVENT CONTAMINATION. CONTAMINATED SOLVENT CAN CAUSE DAMAGE TO THE EQUIPMENT.**

- (c) Clean the surface with a cloth soaked with solvent. Before the solvent evaporation, clean the surface with a clean dry cloth.
- (d) After cleaning, with a brush, apply a thin coat of Alodyne to the prepared surface and wait until the surface is amber.

NOTE: The pot life of the Alodyne 1200S solution is 24 hours.

- (e) Clean the base of the fuel pump connector with a cloth soaked with solvent. Before the solvent evaporation, clean the base of the fuel pump connector with a clean dry cloth.

- (2) Remove the protection caps from the disconnected points, if applicable.

**CAUTION: MAKE SURE THAT THE ATTACHING BOLTS, NUTS, WASHERS, FUEL LINE FITTINGS AND FAYING SURFACES BETWEEN THE ELECTRICAL FUEL PUMP AND THE FUEL TANK SUPPORT ARE CLEAN TO PREVENT AN UNSATISFACTORY ELECTRICAL BONDING.**

- (3) Prepare the fuel pump base surface for bonding. Do the bonding procedures, method 3 ([AMM TASK 20-13-21-910-801-A/200](#)).
- (4) Put the electrical fuel pump (5) in its installation position, on the fuel tank support.
- (5) Put the bolts (7) and washers (8) in their installation position. Tighten the bolts.
- (6) Do the bonding protection procedures for the fuel pump base ( [AMM TASK 20-13-21-910-802-A/200](#)).

- (7) Connect the fuel line tubing (6) to the electrical fuel pump (5).
- (8) (FOR ACFT WITH ELECTRICAL HARNESS CLAMP ON THE FUEL LINE TUBING PUMP 1A, 1C AND 2A OR POST-MOD [SB145-28-0030](#)) Install the nut (1), washer (2), screw (5) and clamps (3) (4), and attach the electrical harness, as applicable. Refer to (Figure 402) or (Figure 403), as applicable.
- (9) Install the bolt (12), washer (13), and clamp (10), and attach the electrical harness (11) to the support (9), as applicable.
- (10) Lubricate with Molykote DC-33 light grease and install the new O-ring on the electrical connector (4).

**CAUTION:** MAKE SURE THAT THE NUTS AND FAYING SURFACES BETWEEN THE ELECTRICAL CONNECTOR AND THE FUEL TANK WALL ARE CLEAN TO PREVENT AN UNSATISFACTORY ELECTRICAL BONDING.

- (11) Prepare the connector support surface for bonding. Do the bonding procedures, method 13 ([AMM TASK 20-13-21-910-801-A/200](#)).
- (12) Apply the anti-corrosive spray to the electrical connector (4). The product must cover the contacts without excess spray. Install the connector in its installation position and attach it with the nut (2). Safety the nut.
- (13) Do the bonding protection procedures for the connector ( [AMM TASK 20-13-21-910-802-A/200](#)).
- (14) Connect the electrical connector (1).

J. Follow-on

**SUBTASK 842-002-A**

- (1) Do an inspection on the fuel quantity indication harness (AMM TASK 28-41-00-200-801-A/600).

**NOTE:** The inspection of fuel quantity indication harness is a part of Critical Design Configuration Control Limitations (CDCCL) in the Airworthiness Limitations of the Aircraft Maintenance Program.

- (2) Install the applicable access panels (AMM MPP 06-41-01/100 and [AMM MPP 28-11-01/400](#)) shown below.
  - (a) LH fuel tank:
    - 155BZ/155CZ.
  - (b) RH fuel tank:
    - 156CZ/156BZ.
  - (c) Center lower fairing:
    - 192AL/192BR.
  - (d) LH main landing gear:
    - 155DZ/155EZ.

- (e) RH main landing gear:
- 156DZ/156EZ.
- (3) Refuel the aircraft ( [AMM TASK 12-11-01-600-801-A/300](#)) as applicable.
- (4) Examine the access panels that you removed because of fuel leakage. Correct as necessary.
- (5) On the circuit breaker panel, close these circuit breakers and remove the DO-NOT-CLOSE tag from them:
- FUEL PUMPS - 1A, 1B, 1C (2A, 2B, 2C).
- CAUTION:** DAMAGE TO THE FUEL PUMP WILL OCCUR IF IT OPERATES WITH NO FUEL (DRY OPERATION). THUS, CHECK THE FUEL LEVEL IN THE FUEL TANKS BEFORE YOU TURN ON THE FUEL PUMP.
- (6) Do an operational check of the low pressure warning system. Refer to [AMM TASK 28-45-00-700-801-A/500](#).

TASK 28-21-01-000-802-A

EFFECTIVITY: ACFT WITH DRY WINGSTUB

#### 4. ELECTRICAL FUEL PUMP - REMOVAL

##### A. General

- (1) This task is applicable to the electrical fuel pump installed in the RH and LH fuel tanks.
- (2) The electrical fuel pump connector at the tank wall is a Critical Design Configuration Control Limitation (CDCCL) item of the Airworthiness Limitations of the Aircraft Maintenance Program. The faying surface between the fuel pump connector and the tank wall must be in good condition to make the electrical bonding satisfactory.

##### B. References

REFERENCE	DESIGNATION
AMM MPP 06-41-01/100	-
AMM MPP 28-00-00/200	- MAINTENANCE PRACTICES
AMM TASK 12-11-01-600-802-A/300	FUEL-TANK PRESSURE DEFUELING - SERVICING
AMM TASK 28-11-01-000-802-A/400	FUEL-TANK ACCESS PANELS - REMOVAL
SB145-28-0030	-

##### C. Zones and Accesses

ZONE	PANEL/DOOR	LOCATION
155	155BZ	LH root wing
155	155CZ	LH root wing
156	156BZ	RH root wing
155	156CZ	RH root wing
192	192AL	Wing stub
192	192BR	Wing stub

##### D. Tools and Equipment

Not Applicable

##### E. Auxiliary Items

Not Applicable

##### F. Consumable Materials

Not Applicable

##### G. Expandable Parts

Not Applicable

##### H. Persons Recommended

QTY	FUNCTION	PLACE
1	Does the task	Fuel tank

I. Preparation

*SUBTASK 841-003-A*

- (1) Make sure that the aircraft is safe for maintenance.
- (2) Defuel the applicable fuel tank ( [AMM TASK 12-11-01-600-802-A/300](#)).
- (3) On the circuit breaker panel, open the circuit breakers below and attach a DO-NOT-CLOSE tag to them:
  - FUEL PUMPS - 1A, 1B, 1C (2A, 2B, 2C).
- (4) Remove these access panels (AMM MPP 06-41-01/100) and ([AMM TASK 28-11-01-000-802-A/400](#)) as applicable to get access to the electrical fuel pumps.
  - (a) LH fuel tank:
    - 155BZ/155CZ.
  - (b) RH fuel tank:
    - 156CZ/156BZ.
  - (c) Wing stub:
    - 192AL/192BR.

J. Removal ([Figure 405](#)) ([Figure 406](#))

*SUBTASK 020-003-A*

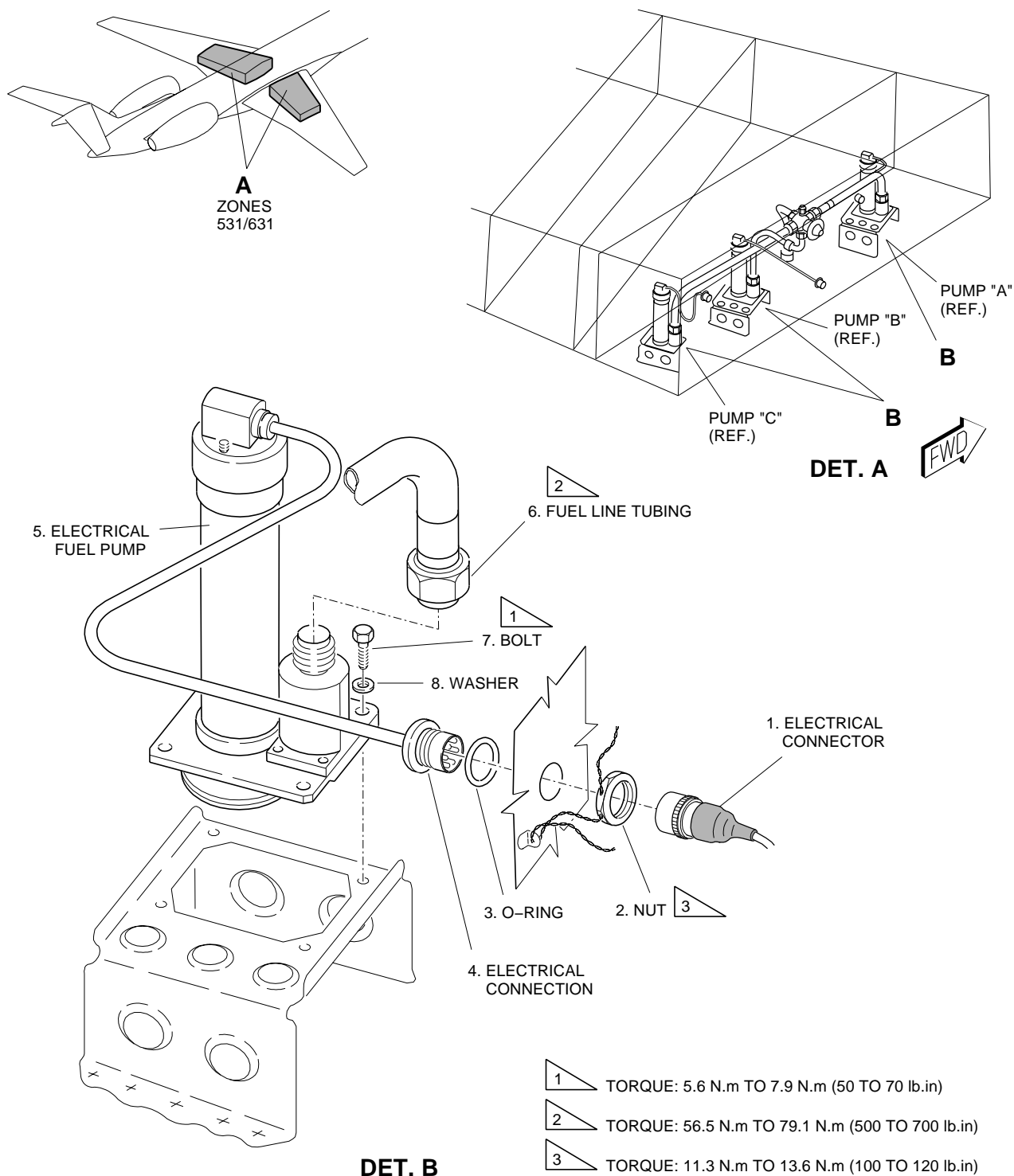
**WARNING: BEFORE YOU DO THE TASK, OBEY THE SAFETY PRECAUTIONS GIVEN IN [AMM MPP 28-00-00/200](#) TO PREVENT INJURY TO PERSONS AND DAMAGE TO THE MATERIAL.**

- (1) Disconnect the electrical connector (1).
- (2) Cut the lockwire to remove the nut (2) and remove the electrical connector (4) from its housing. Remove and discard the O-ring (3).
- (3) Disconnect the fuel line tubing (6) from the electrical fuel pump (5).
- (4) (FOR ACFT POST-MOD [SB145-28-0030](#)) Remove the nut (1), washer (2), screw (5) and clamps (3) (4), and release the electrical harness. Refer to [Figure 406](#).
- (5) Remove the bolts (7) and washers (8) that attach the electrical fuel pump to the wing support, and remove the electrical fuel pump.
- (6) Install protection caps to the disconnected points.

EFFECTIVITY: ACFT WITH DRY WINGSTUB

Electrical Fuel Pump - Removal/Installation

Figure 405



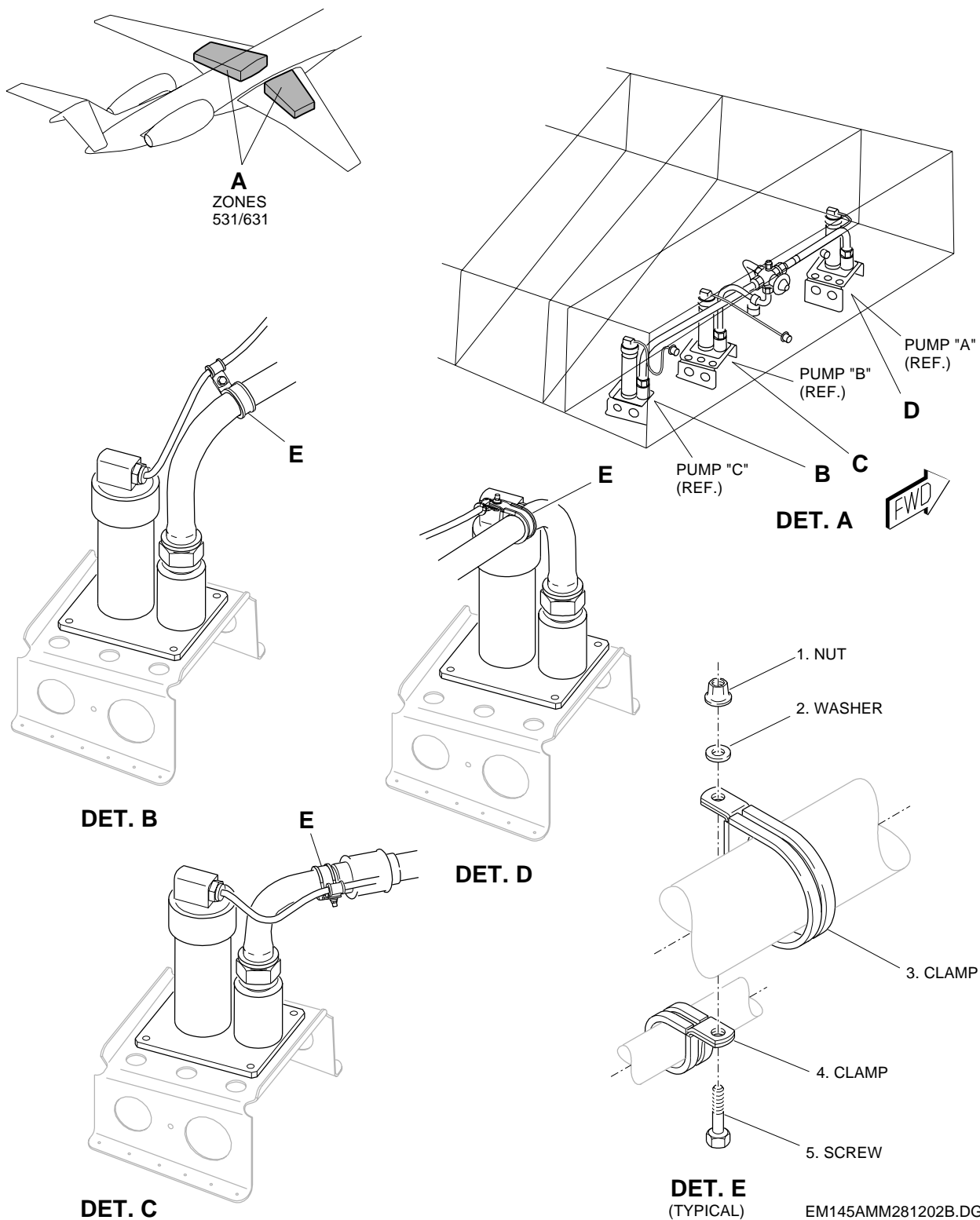
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EFFECTIVITY: FOR ACFT POST-MOD SB 145-28-0030

Electrical Fuel Pump Clamp - Removal/Installation

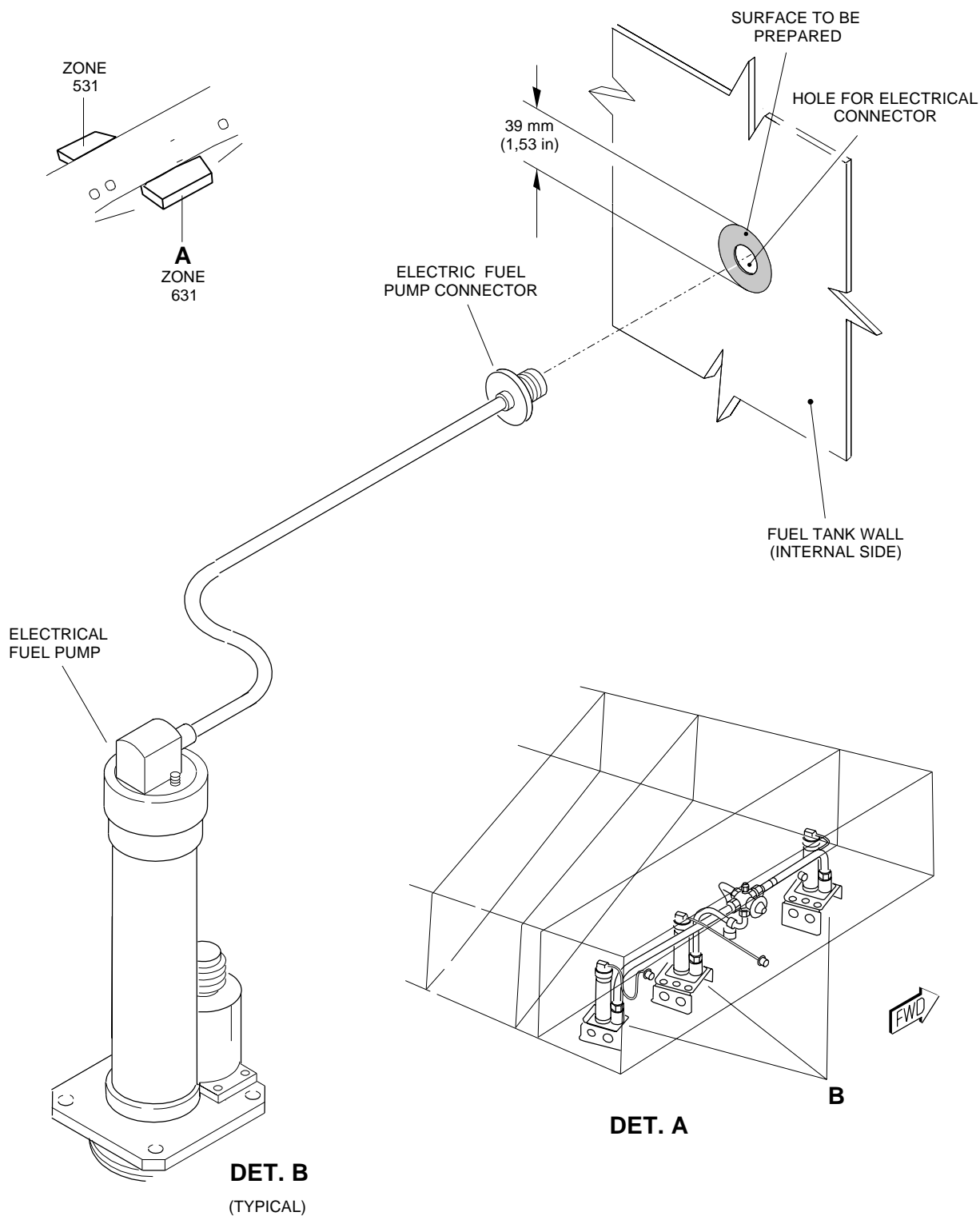
Figure 406



EFFECTIVITY: ACFT WITH DRY WINGSTUB

Electrical Fuel Pump Connector - Bonding Preparation

Figure 407



145AMM280963.MCE

TASK 28-21-01-400-802-A

EFFECTIVITY: ACFT WITH DRY WINGSTUB

## 5. ELECTRICAL FUEL PUMP - INSTALLATION

### A. General

- (1) This task is applicable to the electrical fuel pumps installed in the RH and LH fuel tanks.
- (2) The electrical fuel pump connector at the tank wall is a Critical Design Configuration Control Limitation (CDCCL) item of the Airworthiness Limitations of the Aircraft Maintenance Program. The faying surface between the fuel pump connector and the tank wall must be in good condition to make the electrical bonding satisfactory.

### B. References

REFERENCE	DESIGNATION
AMM MPP 06-41-01/100	-
AMM MPP 28-00-00/200	- MAINTENANCE PRACTICES
AMM MPP 28-11-01/400	- REMOVAL/INSTALLATION
AMM TASK 12-11-01-600-801-A/300	FUEL-TANK PRESSURE REFUELING - SERVICING
AMM TASK 20-13-21-910-801-A/200	TYPES OF ELECTRICAL BONDING AND SURFACE PREPARATION - STANDARD PROCEDURES
AMM TASK 20-13-21-910-802-A/200	ELECTRICAL BONDING PROTECTION - STANDARD PROCEDURES
AMM TASK 28-41-00-200-801-A/600	-
AMM TASK 28-45-00-700-801-A/500	FUEL LOW-PRESSURE WARNING SYSTEM - OPERATIONAL CHECK
IPC 28-21-00	SUPPLY SYSTEM
SB145-28-0030	-

### C. Zones and Accesses

ZONE	PANEL/DOOR	LOCATION
155	155BZ	LH root wing
155	155CZ	LH root wing
156	156BZ	RH root wing
155	156CZ	RH root wing
192	192AL	Wing stub
192	192BR	Wing stub

### D. Tools and Equipment

ITEM	DESCRIPTION	PURPOSE	QTY
Commercially available	Torque Wrench - (Torque Range - Ref. Figure 405)	To apply controlled torque	

E. Auxiliary Items

ITEM	DESCRIPTION	PURPOSE	QTY
Commercially available	Brush	To apply the remover	AR
Commercially available	Cloth	To clean	AR
Commercially available	Acrylic Spatula	To clean	AR

F. Consumable Materials

SPECIFICATION (BRAND)	DESCRIPTION	QTY
Molykote DC-33 Light or equivalent	Grease	AR
MIL-L-87177A, Type 1, grade B	Anti-corrosion product	AR
MEP-21-016	Ardrox 2871	AR
AMS 1375 B	Dasic D 23 (alternative to Ardrox 2871)	AR
MIL-C-81706	Alodyne 1200S	AR
MIL-C-81706A	Alodyne 1201 (alternative to Alodyne 1200S)	AR
MEP-13-073	Rhodiasolve E-23 - Solvent	AR
ASTM-D-740	Methyl Ethyl Ketone (MEK) (alternative to Rhodiasolve E-23 - Solvent)	AR

G. Expendable Parts

ITEM	IPC REFERENCE (VENDOR REFERENCE)	QTY
O-ring	IPC 28-21-00	1

H. Persons Recommended

QTY	FUNCTION	PLACE
1	Does the task	Fuel tank

I. Installation (Figure 405) (Figure 406) (Figure 407)

SUBTASK 420-003-A

**WARNING: BEFORE YOU DO THE TASK, OBEY THE SAFETY PRECAUTIONS GIVEN IN AMM MPP 28-00-00/200 TO PREVENT INJURY TO PERSONS AND DAMAGE TO THE MATERIAL.**

- (1) Do a check to know if the hole for the electrical fuel pump connector in the internal side of the fuel tank wall is prepared for bonding. If the electrical connector hole is not prepared, do steps from (a) to (e) (Figure 407). If the surface is prepared, go to step (2):

**NOTE:** The surface is prepared when its painting is removed.

- (a) Determine the area to be bonded:
  - 1 Do a mark around the hole for the electrical connector in the fuel tank wall. This mark must be 39 mm (1.53 inch) in diameter.
- (b) Remove the nonconductive coating from the area to be bonded.
  - 1 Apply a brush impregnated with remover Ardrex 2871.
  - 2 Remove the coating with an acrylic spatula.

**WARNING: DO NOT MIX ALODYNE WITH ORGANIC SOLVENTS (ALCOHOLS, KETONES, ETC.). WHEN YOU MIX ALODYNE AND ORGANIC SOLVENTS, AN EXPLOSION CAN OCCUR AND CAUSE INJURY TO PERSONNEL AND DAMAGE TO EQUIPMENT.**

**CAUTION: DO NOT PUT CLEANING CLOTHS, BRUSH, OR SPONGES INTO SOLVENT CONTAINER TO PREVENT SOLVENT CONTAMINATION. CONTAMINATED SOLVENT CAN CAUSE DAMAGE TO THE EQUIPMENT.**

- (c) Clean the surface with a cloth soaked with solvent. Before the solvent evaporation, clean the surface with a clean dry cloth.
- (d) After cleaning with a brush, apply a thin coat of Alodyne to the prepared surface and wait until the surface is amber.

**NOTE:** The pot life of the Alodyne 1200S solution is 24 hours.

- (e) Clean the base of the fuel pump connector with a cloth soaked in solvent. Before the solvent evaporation, clean the base of the fuel pump connector with a clean dry cloth.

- (2) Remove the protection caps from the disconnected points, if applicable.

**CAUTION: MAKE SURE THAT THE ATTACHING BOLTS, NUTS, WASHERS, FUEL LINE FITTINGS AND FAYING SURFACES BETWEEN THE ELECTRICAL FUEL PUMP AND THE FUEL TANK SUPPORT ARE CLEAN TO PREVENT AN UNSATISFACTORY ELECTRICAL BONDING.**

- (3) Prepare the fuel pump base surface for bonding. Do the bonding procedures, method 3 ([AMM TASK 20-13-21-910-801-A/200](#)).
- (4) Put the electrical fuel pump (5) in its installation position, on the fuel tank support.
- (5) Put the bolts (7) and washers (8) in their installation position. Tighten the bolts.
- (6) Do the bonding protection procedures for the fuel pump base ( [AMM TASK 20-13-21-910-802-A/200](#)).
- (7) Connect the fuel line tubing (6) to the electrical fuel pump (5).
- (8) (FOR ACFT POST-MOD [SB145-28-0030](#)) Install the nut (1), washer (2), screw (5) and clamps (3) (4), and attach the electrical harness, as applicable. Refer to (Figure 406).

- (9) Lubricate with Molykote DC-33 light grease and install the new O-ring on the electrical connector (4).

**CAUTION:** MAKE SURE THAT THE NUTS AND FAYING SURFACES BETWEEN THE ELECTRICAL CONNECTOR AND THE FUEL TANK WALL ARE CLEAN TO PREVENT AN UNSATISFACTORY ELECTRICAL BONDING.

- (10) Prepare the connector support surface for bonding. Do the bonding procedures, method 13 ([AMM TASK 20-13-21-910-801-A/200](#)).
- (11) Apply the anti-corrosive spray to the electrical connector (4). The product must cover the contacts without excess spray. Install the connector in its installation position and attach it with the nut (2). Safety the nut.
- (12) Do the bonding protection procedures for the connector ( [AMM TASK 20-13-21-910-802-A/200](#)).
- (13) Connect the electrical connector (1).

J. Follow-on

**SUBTASK 842-003-A**

- (1) Do an inspection on the fuel quantity indication harness (AMM TASK 28-41-00-200-801-A/600).

**NOTE:** The inspection of fuel quantity indication harness is a part of Critical Design Configuration Control Limitations (CDCCL) in the Airworthiness Limitations of the Aircraft Maintenance Program.

- (2) Install these access panels (AMM MPP 06-41-01/100) and ([AMM MPP 28-11-01/400](#)) as applicable.
- (a) LH fuel tank:
- 155BZ/155CZ.
- (b) RH fuel tank:
- 156CZ/156BZ.
- (c) Wing stub:
- 192AL/192BR.
- (3) Refuel the aircraft ( [AMM TASK 12-11-01-600-801-A/300](#)) as applicable.
- (4) Examine the access panels which were removed for fuel leakage. Correct as necessary.
- (5) On the circuit breaker panel, close these circuit breakers and remove the DO-NOT-CLOSE tag from them:
- FUEL PUMPS - 1A, 1B, 1C (2A, 2B, 2C).

**CAUTION:** DAMAGE TO THE FUEL PUMP WILL OCCUR IF IT OPERATES WITH NO FUEL (DRY OPERATION). THUS, SEE THE FUEL LEVEL IN THE FUEL TANKS BEFORE YOU TURN ON THE FUEL PUMP.

- (6) Do an operational check on the low pressure warning system. Refer to ( [AMM TASK 28-45-00-700-801-A/500](#) ).

TASK 28-21-01-040-801-A

EFFECTIVITY: ALL

6. ELECTRICAL FUEL PUMP - DEACTIVATION

A. General

- (1) This procedure refers to item 28-21-01 - WING TANK ELECTRICAL FUEL BOOSTER PUMPS of the DDPM.

B. Zones and Accesses

Not Applicable

C. Tools and Equipment

Not Applicable

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	Cockpit

H. Deactivation

*SUBTASK 040-002-A*

- (1) Open and safety the related electrical fuel booster-pump circuit breakers:

- (a) On the left distribution box at the left aft console:

- 1A FUEL PUMP PWR
- 1C FUEL PUMP PWR
- 2B FUEL PUMP PWR

- (a) On the right distribution box at the right aft console:

- 1B FUEL PUMP PWR
- 2A FUEL PUMP PWR
- 2C FUEL PUMP PWR

- (2) Install a "PUMP A (or B, or C) INOP" placard on the related fuel-pump selector knob.

**NOTE:** After you accomplish the deactivation procedure, when the deactivated fuel pump is selected, the fuel pump indication (letter A, B, or C) on the MFD can come into view.



TASK 28-21-01-440-801-A

EFFECTIVITY: ALL

## 7. ELECTRICAL FUEL PUMP - REACTIVATION

### A. General

- (1) This task gives the procedure to start the WING TANK ELECTRICAL FUEL BOOSTER PUMPS, if the stop procedure ( [AMM TASK 28-21-01-040-801-A/400](#)) obeyed the special dispatch condition of DDPM reference item 28-21-01.

### B. References

REFERENCE	DESIGNATION
<a href="#">AMM TASK 28-21-01-040-801-A/400</a>	ELECTRICAL FUEL PUMP - DEACTIVATION
<a href="#">AMM TASK 28-45-00-700-801-A/500</a>	FUEL LOW-PRESSURE WARNING SYSTEM - OPERATIONAL CHECK

### 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

QTY	FUNCTION	PLACE
1	Does the task	Cockpit and pump location

### I. Reactivation

#### SUBTASK 440-002-A

- (1) Do the troubleshooting and the applicable corrective maintenance procedure for the electrical fuel booster pump.
- (2) Close the circuit breaker of the related electrical fuel booster-pump that was deactivated:
  - (a) On the left distribution box at the left aft console:
    - 1A FUEL PUMP PWR
    - 1C FUEL PUMP PWR
    - 2B FUEL PUMP PWR

- (b) On the right distribution box at the right aft console:
- 1B FUEL PUMP PWR
  - 2A FUEL PUMP PWR
  - 2C FUEL PUMP PWR
- (3) Remove the <sup>2</sup>PUMP A (or B, or C) INOP<sup>2</sup> placard from the related fuel-pump selector knob.

**CAUTION:** DAMAGE TO THE FUEL PUMP WILL OCCUR IF IT OPERATES WITH NO FUEL (DRY OPERATION). THUS, SEE THE FUEL LEVEL IN THE FUEL TANKS BEFORE YOU TURN ON THE FUEL PUMP.

- (4) Do an operational check on the low pressure warning system. Refer to ( [AMM TASK 28-45-00-700-801-A/500](#)).