



EMB145 - EMB135

AIRCRAFT
MAINTENANCE MANUAL

PRESSURE SWITCH (PRESSURE SUPPLY) - REMOVAL/INSTALLATION

EFFECTIVITY: ALL

1. General

- A. This section gives the procedures to remove and install the pressure switch (pressure supply).
- 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
32-41-04-000-801-A	PRESSURE SWITCH (PRESSURE SUPPLY) - REMOVAL	ALL
32-41-04-400-801-A	PRESSURE SWITCH (PRESSURE SUPPLY) - INSTALLATION	ALL



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TASK 32-41-04-000-801-A

EFFECTIVITY: ALL

2. PRESSURE SWITCH (PRESSURE SUPPLY) - REMOVAL

A. General

- (1) This task gives the procedure to remove the pressure switch (pressure supply).
- (2) This procedure is applicable to the pressure switch (pressure supply) of hydraulic system 1 and hydraulic system 2.

B. References

REFERENCE	DESIGNATION
AMM MPP 06-41-01/100	-
AMM TASK 29-10-00-860-802-A/200	HYDRAULIC SYSTEM - PRESSURIZATION WITH EMDP

C. Zones and Accesses

ZONE	PANEL/DOOR	LOCATION
192	192AL	Center lower fairing - LH
192	192BR	Center lower fairing - RH

D. Tools and Equipment

Not Applicable

E. Auxiliary Items

ITEM	DESCRIPTION	PURPOSE	QTY
Commercially available	Rubber Gloves, Phosphate Ester-Base, Fluid-Resistant	Protection for the Hands	1
Commercially available	Rubber Goggles, Phosphate Ester-Base, Fluid-Resistant	Protection for the Eyes	1

F. Consumable Materials

Not Applicable

G. Expandable Parts

Not Applicable

H. Persons Recommended

QTY	FUNCTION	PLACE
1	Does the task	LH/RH wing stubs



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I. Preparation

SUBTASK 841-002-A

- (1) On the Circuit Breaker Panel, open the ELEC PUMP 1 and ELEC PUMP 2 circuit breakers and attach a DO-NOT-CLOSE tag to them.
- (2) Control the ailerons up and down, or the rudder left and right, until the pressure of the hydraulic system shows zero PSI on the EICAS.
- (3) Make sure that the pressure in hydraulic systems No. 1 and No. 2 is fully released ([AMM TASK 29-10-00-860-802-A/200](#)).
- (4) Open access panel 192AL (hydraulic system 1) and access panel 192BR (hydraulic system 2) (AMM MPP 06-41-01/100).

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

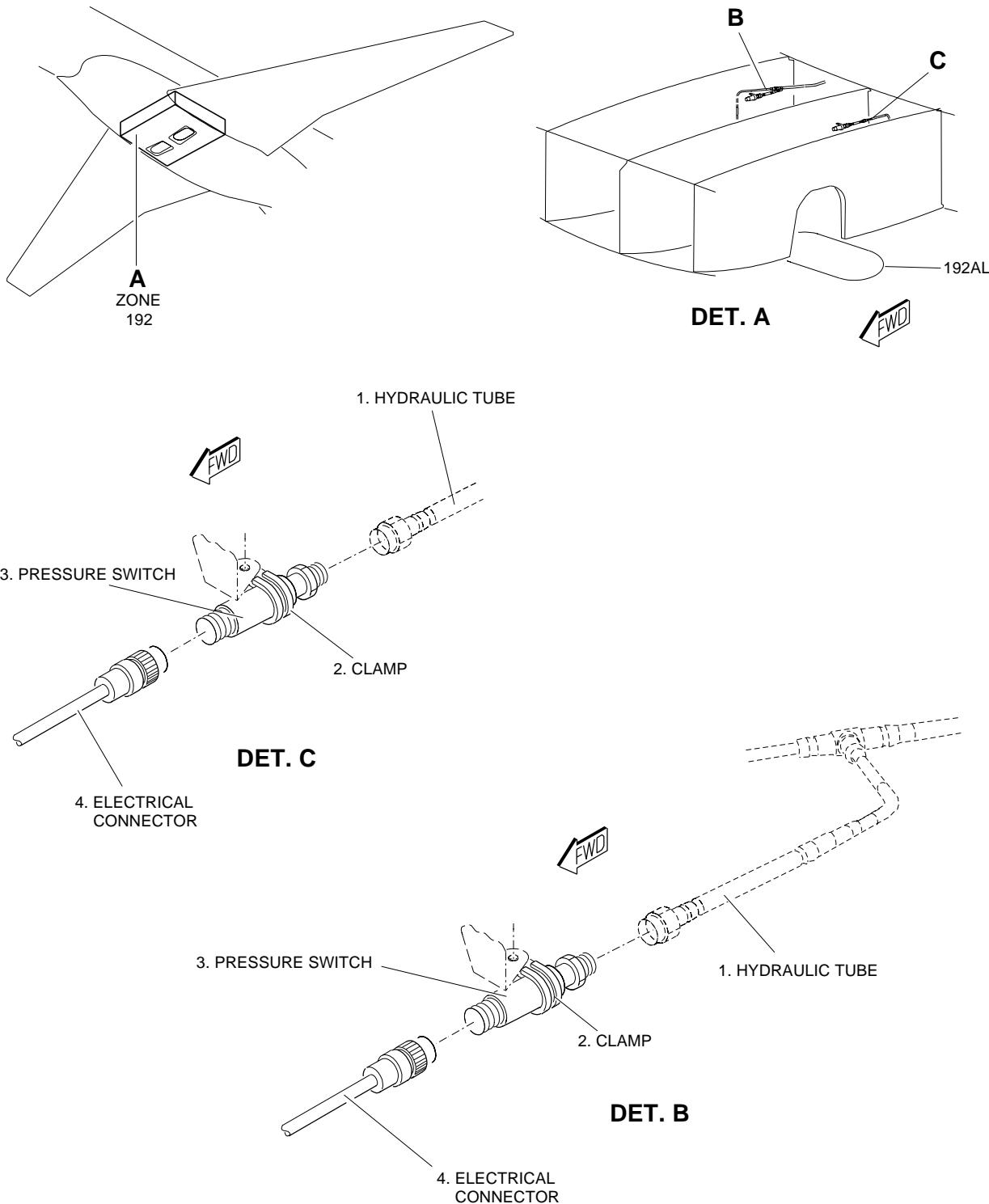
SUBTASK 020-002-A

- (1) Disconnect the electrical connector (4).
- (2) Disconnect the hydraulic tube (1).
- (3) Release the clamp (2).
- (4) Remove the pressure switch (3).

EFFECTIVITY: EMB-145ER/EP/EU/MP AND EMB-135ER MODELS

Pressure Switch (Pressure Supply) - Removal/Installation

Figure 401

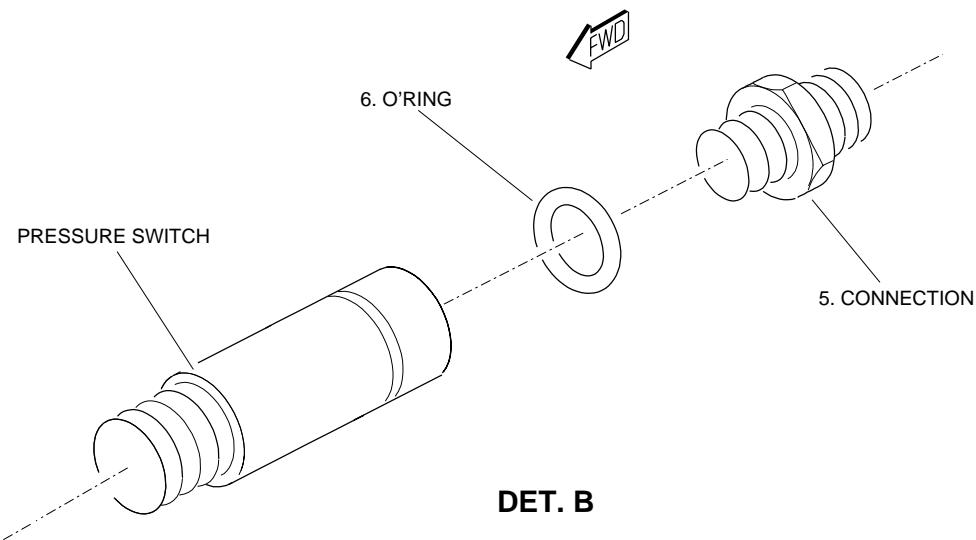
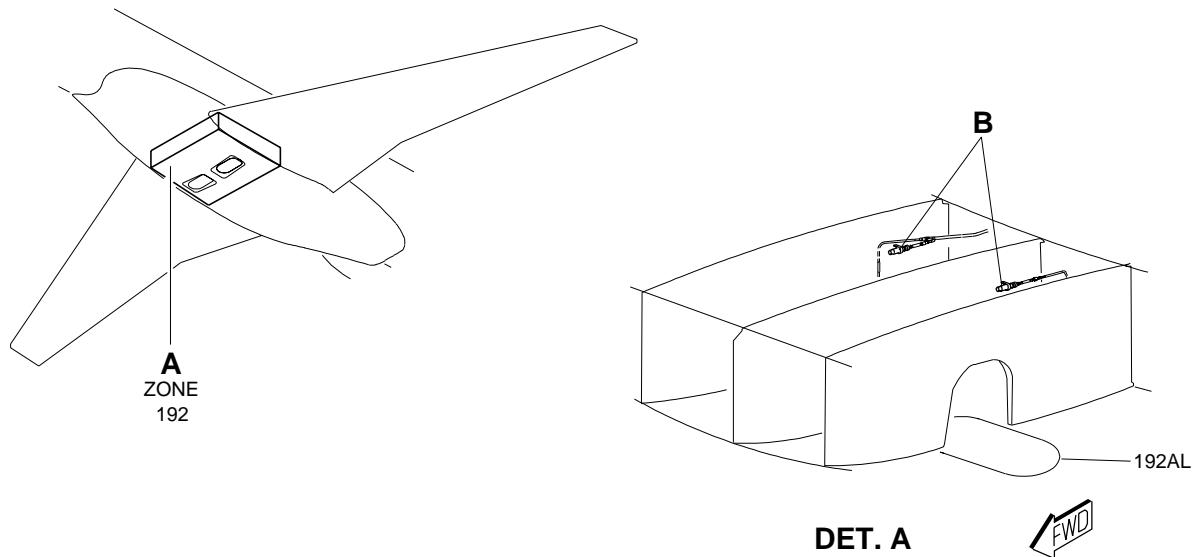


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EFFECTIVITY: EMB-145ER/EP/EU/MP AND EMB-135ER MODELS

Connections of the Pressure Switch (Pressure Supply) - Removal/Installation

Figure 402

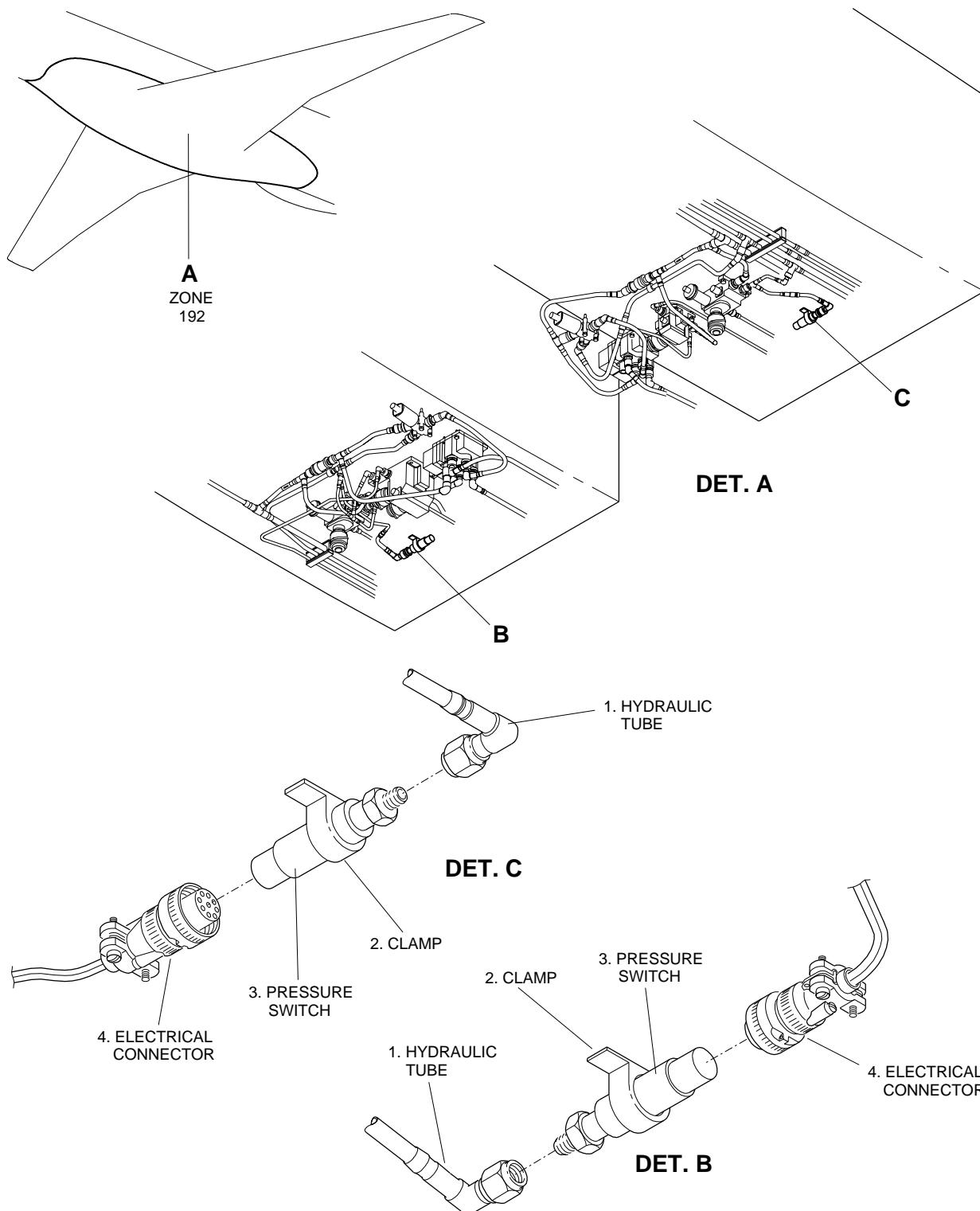


145AMM320106.MCE B

EFFECTIVITY: EMB-145LR/LU AND EMB-135LR MODELS

Pressure Switch (Pressure Supply) - Removal/Installation

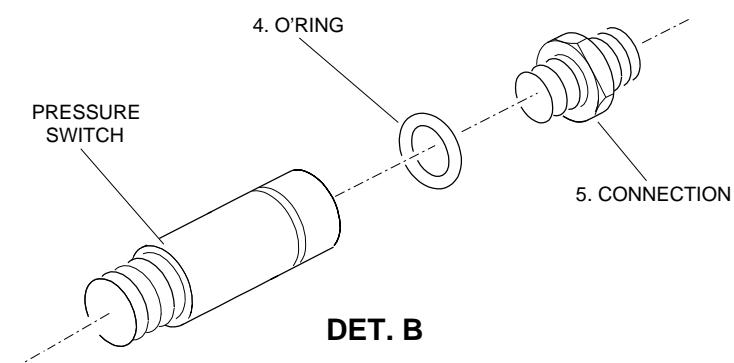
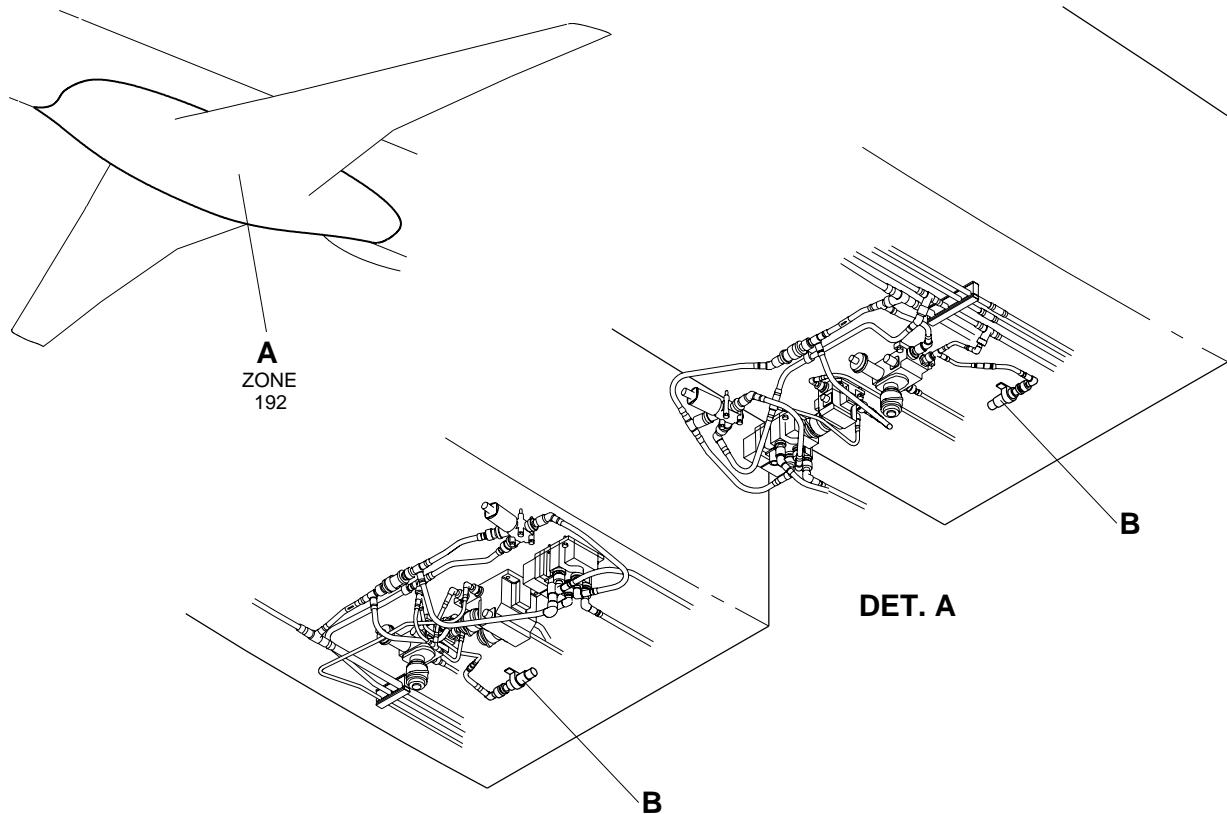
Figure 403



145AMM320298.MCE A

EFFECTIVITY: EMB-145LR/LU AND EMB-135LR MODELS

Connections of the Pressure Switch (Pressure Supply) - Removal/Installation
Figure 404



145AMM320302.MCE A



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TASK 32-41-04-400-801-A

EFFECTIVITY: ALL

3. PRESSURE SWITCH (PRESSURE SUPPLY) - INSTALLATION

A. General

- (1) This task gives the procedure to install the pressure switch (pressure supply).
- (2) This procedure is applicable to the pressure switch (pressure supply) of hydraulic system 1 and hydraulic system 2.

B. References

REFERENCE	DESIGNATION
AMM MPP 06-41-01/100	-
AMM TASK 28-41-00-200-801-A/600	-
AMM TASK 32-40-00-800-801-A/200	NORMAL BRAKE AND EMERGENCY PARKING BRAKE SYSTEMS - BLEEDING
AMM TASK 32-41-00-700-801-A/500	MAIN BRAKE SYSTEM - FUNCTIONAL CHECK

C. Zones and Accesses

ZONE	PANEL/DOOR	LOCATION
192	192AL	Center lower fairing - LH
192	192BR	Center lower fairing - RH

D. Tools and Equipment

Not Applicable

E. Auxiliary Items

ITEM	DESCRIPTION	PURPOSE	QTY
Commercially available	Rubber Gloves, Phosphate Ester-Base, Fluid-Resistant	Protection for the hands	1
Commercially available	Rubber Goggles, Phosphate Ester-Base, Fluid-Resistant	Protection for the eyes	1

F. Consumable Materials

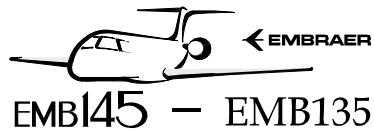
Not Applicable

G. Expandable Parts

Not Applicable

H. Persons Recommended

QTY	FUNCTION	PLACE
1	Does the task	LH/RH wing stubs



I. Preparation (Figure 402) (Figure 404)

SUBTASK 841-003-A

- (1) Remove and keep the connection (5).
- (2) Remove and discard the old O-ring (6).
- (3) Install the new O-ring (6).
- (4) Install the connection (5).

J. Installation (Figure 401) (Figure 403)

SUBTASK 420-002-A

- (1) Install the pressure switch (3).
- (2) Tighten the clamp (2).
- (3) Connect the hydraulic tube (1).

WARNING: DO NOT GET LUBRICANT AND ANTICORROSIVE FILM PN LEKTRO-TECH SUPER CORR-A IN YOUR MOUTH OR EYES, OR ON YOUR SKIN. PUT ON A PROTECTIVE SPLASH GOGGLE AND GLOVES WHEN YOU USE LUBRICANT AND ANTICORROSIVE FILM PN LEKTRO-TECH SUPER CORR-A. KEEP LUBRICANT AND ANTICORROSIVE FILM PN LEKTROTECH SUPER CORR-A AWAY FROM SPARKS, FLAME, AND HEAT. LUBRICANT AND ANTICORROSIVE FILM PN LEKTRO-TECH SUPER CORR-A IS A POISONOUS AND FLAMMABLE SUBSTANCE.

- (4) Connect the electrical connector (4).

NOTE: Before you connect the connector, apply Lektro-Tech Super Corr-A into the plug connector to prevent corrosion and clean the contacts.

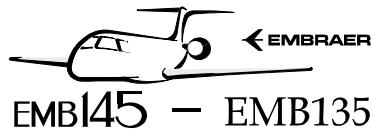
K. Follow-on

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 (Section 6) of the Maintenance Review Board Report (MRB).

- (2) Close access panel 192AL (hydraulic system 1) and access panel 192BR (hydraulic system 2) (AMM MPP 06-41-01/100).
- (3) On the Circuit Breaker Panel, close the ELEC PUMP 1 and ELEC PUMP 2 circuit breakers and remove the DO-NOT-CLOSE tags from them.
- (4) Bleed the Normal Brake and Emergency Parking Brake systems (AMM TASK 32-40-00-800-801-A/200).
- (5) Do the functional check of the main brake system (AMM TASK 32-41-00-700-801-A/500), to make sure that the pressure switch operates correctly.



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NOTE: This functional check must be done for hydraulic systems 1 and 2.