

**ELECTRICAL POWER, EXTERNAL - SERVICING**

**TASK 12-00-07-861-801**

**1. Connect and Energize External AC Power**

A. Reference Information

| REFERENCE             | DESIGNATION                              |
|-----------------------|--|
| TASK 10-10-01-867-801 | Grounding of the Aircraft                |
| TASK 12-00-07-861-802 | Remove External AC Power                 |
| TASK 24-00-00-861-801 | Connect Electrical Power to the Aircraft |

B. Tools and Equipment

| REFERENCE    | DESIGNATION                       |
|--------------|-----------------------------------|
| GSE 24-40-01 | Unit, Ground Power AC (480V/60HZ) |

**NOTE:** Refer to the Illustrated Tool and Equipment Manual to make sure that you use the correct equipment configuration.

C. Job Set-Up

**WARNING:** GROUND THE AIRCRAFT BEFORE YOU CONNECT THE EXTERNAL ELECTRICAL POWER. YOU CAN CAUSE INJURIES TO PERSONS AND DAMAGE TO THE EQUIPMENT.

- (1) Ground the aircraft (TASK 10-10-01-867-801).
- (2) Open the access door that follows:

| ACCESS | DESIGNATION                      |
|--------|----------------------------------|
| 122BR  | Door, AC Ground-Power Connection |

D. Procedure

Refer to Figure 301.

- (1) Connect the ground power unit to the ac receptacle.
- (2) Set the ground power unit to 115 volts at 400 hertz.
- (3) Start the ground power unit.

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| EFFECTIVITY: ALL |
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NOTE: Make sure you use the correct electrical power source necessary for the specified maintenance task (TASK 24-00-00-861-801).

- (4) Put the BATT MASTER switch to the ON position.
- (5) On the ELECTRICAL POWER control panel, make sure that the AVAIL part of the EXT POWER – AC switch/light comes on (green).
- (6) Push the EXT POWER – AC switch/light.
- (7) Make sure that the IN USE part of the EXT POWER – AC switch/light comes on (white).
- (8) Make sure that the AVAIL part of the EXT POWER – AC switch/light goes off.

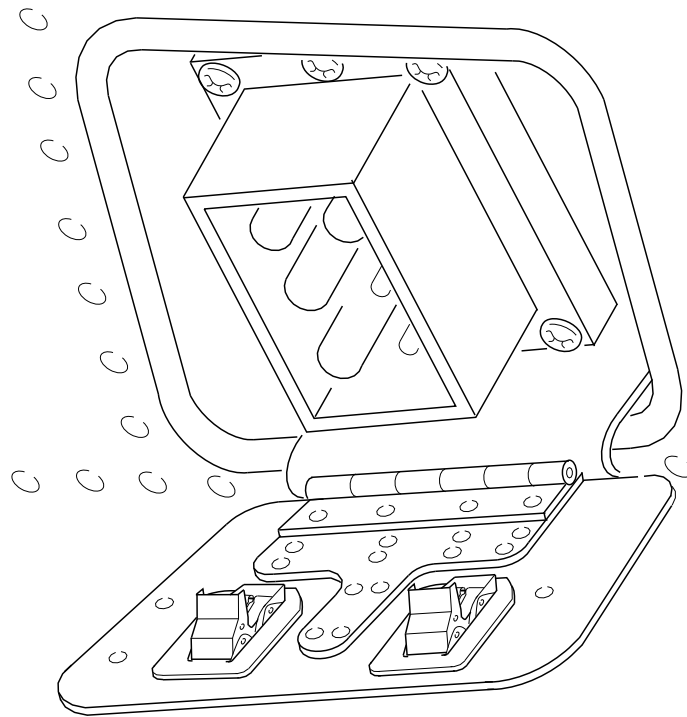
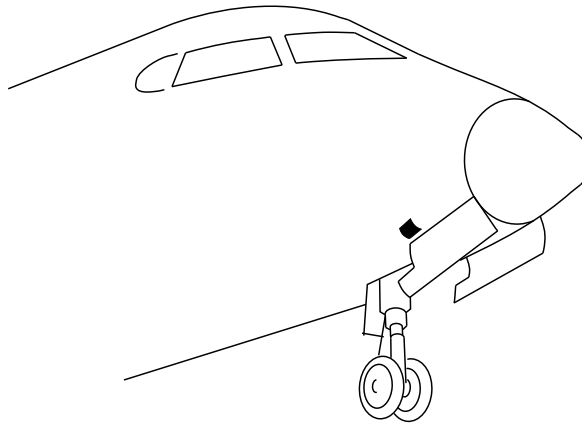
E. Close Out

- (1) Remove all tools, equipment, and unwanted materials from the work area.
- (2) Remove the external ac power (TASK 12-00-07-861-802).

EFFECTIVITY: ALL

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Figure 301

EFFECTIVITY: ALL

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**TASK 12-00-07-861-802**

**2. Remove External AC Power**

A. Reference Information

| REFERENCE             | DESIGNATION                               |
|-----------------------|---|
| TASK 12-00-07-861-801 | Connect and Energize External AC Power    |
| TASK 24-00-00-861-802 | Remove Electrical Power from the Aircraft |

B. Tools and Equipment

| REFERENCE    | DESIGNATION                       |
|--------------|-----------------------------------|
| GSE 24-40-01 | Unit, Ground Power AC (480V/60HZ) |

**NOTE:** Refer to the Illustrated Tool and Equipment Manual to make sure that you use the correct equipment configuration.

C. Job Set-Up

- (1) Make sure that the aircraft is in the same configuration as for connection of external ac power.

**NOTE:** Make sure you use the correct electrical power source necessary for the specified maintenance task (TASK 24-00-00-861-802).

D. Procedure

Refer to Figure 301.

- (1) On the ELECTRICAL POWER control panel installed in the flight compartment, put the BATT MASTER switch to the OFF position.
- (2) Push the EXT POWER – AC switch/light.
- (3) Make sure that the IN USE part of the EXT POWER – AC switch/light goes off.
- (4) Make sure that the AVAIL part of the EXT POWER – AC switch/light comes on (green).
- (5) Stop the ground power unit.

**NOTE:** Make sure you use the correct electrical power source necessary for the specified maintenance task (TASK 24-00-00-861-802)

- (6) Disconnect the ground power unit from the ac receptacle.

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| EFFECTIVITY: ALL |
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E. Close Out

- (1) Remove all tools, equipment, and unwanted materials from the work area.
- (2) Close the access door that follows:

| ACCESS | DESIGNATION                      |
|--------|----------------------------------|
| 122BR  | Door, AC Ground–Power Connection |

EFFECTIVITY: ALL

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**TASK 12-00-07-861-803**

**3. Connect and Energize External DC Power**

A. Reference Information

| REFERENCE             | DESIGNATION                              |
|-----------------------|--|
| TASK 10-10-01-867-801 | Grounding of the Aircraft                |
| TASK 12-00-07-861-804 | Remove External DC Power                 |
| TASK 24-00-00-861-801 | Connect Electrical Power to the Aircraft |
| TASK 24-00-00-910-801 | Electrical/Electronic Safety Precautions |

B. Tools and Equipment

| REFERENCE    | DESIGNATION           |
|--------------|-----------------------|
| GSE 24-40-02 | Unit, Ground Power DC |

**NOTE:** Refer to the Illustrated Tool and Equipment Manual to make sure that you use the correct equipment configuration.

C. Job Set-Up

**WARNING:** GROUND THE AIRCRAFT BEFORE YOU CONNECT THE EXTERNAL ELECTRICAL POWER. YOU CAN CAUSE INJURIES TO PERSONS AND DAMAGE TO THE EQUIPMENT.

(1) Ground the aircraft (TASK 10-10-01-867-801).

**WARNING:** OBEY ALL THE SAFETY PRECAUTIONS WHEN YOU DO MAINTENANCE ON OR NEAR ELECTRICAL/ELECTRONIC EQUIPMENT. IF YOU DO NOT OBEY THE SAFETY PRECAUTIONS, YOU CAN CAUSE INJURY TO PERSONS AND DAMAGE TO THE EQUIPMENT.

(2) Obey all the electrical/electronic safety precautions (TASK 24-00-00-910-801).

(3) Open the access door that follows:

| ACCESS | DESIGNATION                               |
|--------|---|
| 312AR  | Door, External DC Ground-Power Connection |

EFFECTIVITY: ALL

D. Procedure

Refer to Figure 302.

- (1) Connect the ground power unit to the dc receptacle.
- (2) Set the ground power unit to 28 volts.
- (3) Start the ground power unit.
- (4) On the ELECTRICAL POWER control panel, make sure that the EXT POWER – DC – IN USE light comes on (white).

NOTE: Make sure you use the correct electrical power source necessary for the specified maintenance task (TASK 24-00-00-861-801)

- (5) Set the BATT MASTER switch to ON.
- (6) On the EICAS DC ELECTRICAL synoptic page, make sure that the APU BATT DIR BUS is powered by the EXT DC box.

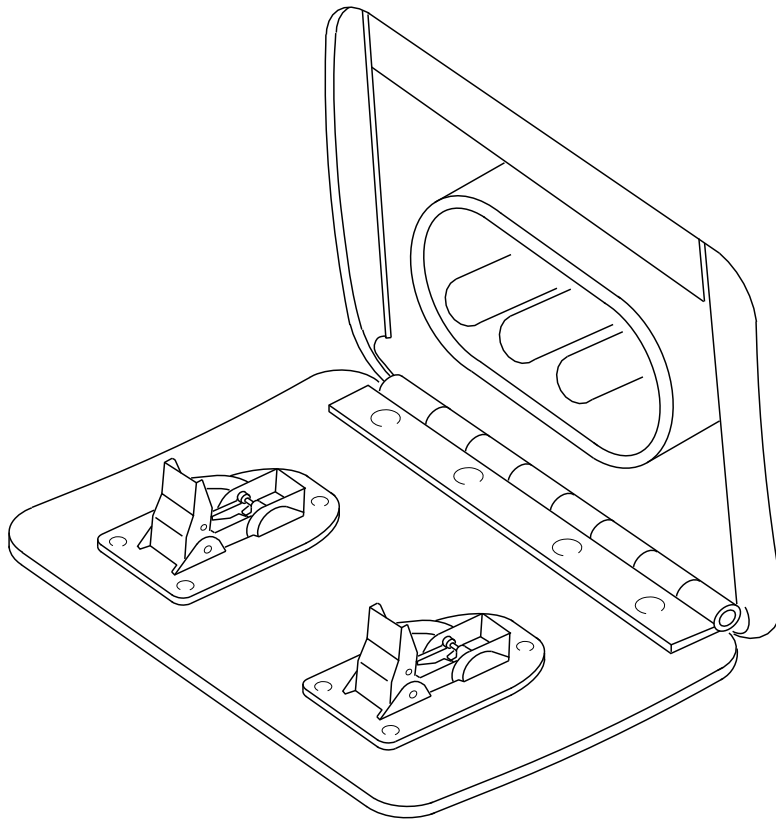
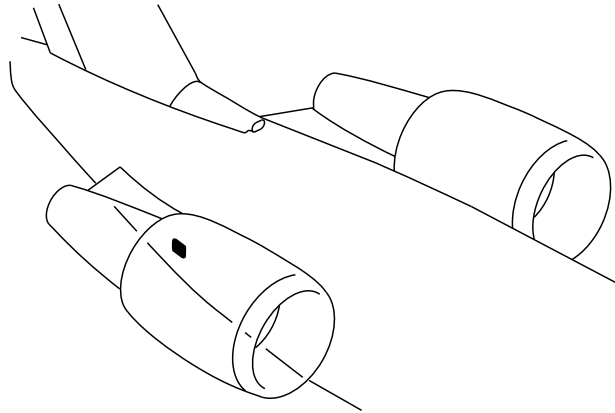
E. Close Out

- (1) Remove all tools, equipment, and unwanted materials from the work area.
- (2) When necessary, remove the external dc power (TASK 12-00-07-861-804).

EFFECTIVITY: ALL

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Figure 302

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EFFECTIVITY: ALL

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**TASK 12-00-07-861-804**

**4. Remove External DC Power**

A. Reference Information

| REFERENCE             | DESIGNATION                               |
|-----------------------|---|
| TASK 24-00-00-861-802 | Remove Electrical Power from the Aircraft |
| TASK 24-00-00-910-801 | Electrical/Electronic Safety Precautions  |

B. Tools and Equipment

| REFERENCE    | DESIGNATION           |
|--------------|-----------------------|
| GSE 24-40-02 | Unit, Ground Power DC |

**NOTE:** Refer to the Illustrated Tool and Equipment Manual to make sure that you use the correct equipment configuration.

C. Job Set-Up

- (1) Make sure that the aircraft is in the same configuration as for connection of external dc power.

**WARNING:** OBEY ALL THE SAFETY PRECAUTIONS WHEN YOU DO MAINTENANCE ON OR NEAR ELECTRICAL/ELECTRONIC EQUIPMENT. IF YOU DO NOT OBEY THE SAFETY PRECAUTIONS, YOU CAN CAUSE INJURY TO PERSONS AND DAMAGE TO THE EQUIPMENT.

- (2) Obey all the electrical/electronic safety precautions (TASK 24-00-00-910-801).

D. Procedure

Refer to Figure 302.

- (1) Set the BATT MASTER switch to OFF.
- (2) Stop the ground power unit.
- (3) Disconnect the ground power unit from the dc receptacle.

E. Close Out

- (1) Remove all tools, equipment, and unwanted materials from the work area.

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| EFFECTIVITY: ALL |
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(2) Close the access door that follows:

| ACCESS | DESIGNATION                               |
|--------|---|
| 312AR  | Door, External DC Ground–Power Connection |

EFFECTIVITY: ALL

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