Aircraft Maintenance Manual

MODEL	A/C EFFECTIVITY
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CHALLENGER 350

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		522	Mar 15/2018
		523	Mar 15/2018
		524	Mar 15/2018
		525	Mar 15/2018
		526	May 26/2014
		527	May 26/2014
24–63–01	ALL	528	May 26/2014
		529	May 26/2014
		530	May 26/2014
		531	May 26/2014
		532	May 26/2014
		533	May 26/2014
		534	May 26/2014
		535	May 26/2014
		536	May 26/2014
		537	Jul 01/2020
		538	Jun 14/2022
		539	Dec 03/2018
		540	Dec 03/2018
		541	Jul 01/2020
		542	Jun 14/2022
		543	Jun 14/2022
		544	Jun 14/2022
24–63–03	ALL	401	May 26/2014
		402	May 26/2014
		403	Mar 31/2015
		404	May 26/2014
24–63–05	ALL	401	Sep 25/2020
		402	Sep 25/2020
		403	May 26/2014
		404	Sep 07/2018
		405	Mar 31/2015
		406	May 26/2014
		407	Sep 07/2018
		408	Sep 07/2018
		409	Mar 09/2017
		410	Sep 07/2018
		411	Sep 07/2018
24–63–05	ALL	501	May 26/2014
		502	May 26/2014
		503	Dec 15/2016
		504	Dec 15/2016
		505	May 26/2014
		506	May 26/2014
		507	May 26/2014
		508	May 26/2014
		509	Sep 25/2020
		510	May 11/2023
		511	May 11/2023
		512	Jan 15/2020
		513	Sep 22/2021
		514	Jan 15/2020

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		516	Jan 15/2020
		517	Jan 15/2020
		518	Jan 15/2020
		519	Jan 15/2020
		520	Sep 25/2020
		521	Jan 15/2020
		522	Jan 15/2020
		523	Jan 15/2020
		524	Jan 15/2020
		525	Jan 15/2020
		526	Jan 15/2020
		527	Jan 15/2020
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		533	Jan 15/2020
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		536	Jan 15/2020
		537	Jan 15/2020
		538	Jan 15/2020
		539	Jan 15/2020
		540	Jan 15/2020
		541	Jan 15/2020
		542	Jul 01/2020
		543	Dec 22/2020
		544	May 26/2014
		545	May 26/2014
		546	May 26/2014
		547	Jul 01/2020
		548	Jul 01/2020
		549	Jul 01/2020
		550	Jul 01/2020
24–63–07	ALL	401	May 26/2014
		402	May 26/2014
		403	Mar 31/2015
		404	May 26/2014
24–63–09	ALL	401	Sep 07/2018
		402	May 26/2014
		403	May 26/2014
		404	Jun 12/2018
		405	Jun 12/2018
		406	Jul 01/2020
		407	Jul 01/2020
24–63–09	ALL	408	May 26/2014
		409	Jun 12/2018
		410	May 26/2014
		411	May 26/2014
24–63–09	ALL	501	May 26/2014
		502	May 26/2014
		503	Sep 20/2017
		504	Sep 20/2017
		505	May 26/2014
		506	May 26/2014
		507	Mar 29/2022
		508	Dec 03/2018
		509	May 26/2014
		510	Jun 14/2022
		511	Jun 14/2022
		512	Jun 14/2022
		513	Jun 14/2022
		514	Jun 14/2022
		515	May 26/2014
		516	Feb 05/2015
		517	May 26/2014
		518	May 26/2014
		519	May 26/2014
		520	May 26/2014
		521	Mar 31/2015
		522	Feb 05/2015
		523	Feb 05/2015
		524	May 26/2014
		525	May 26/2014
		526	May 26/2014
		527	Jul 03/2017
		528	May 26/2014
		529	Feb 05/2015
		530	Mar 29/2022
		531	Feb 05/2015
		532	Jun 14/2022
		533	Jun 14/2022
		534	Jun 28/2021
		535	May 26/2014
		536	Jun 14/2022
		537	Jun 14/2022
		538	Jun 14/2022
		539	May 26/2014

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		402	May 26/2014
		403	Mar 31/2015
		404	May 26/2014
24–63–13	ALL	401	Jun 12/2018
		402	May 26/2014
		403	Jun 14/2022
		404	Jun 12/2018
		405	Jun 12/2018
		406	Jun 12/2018
		407	Jun 12/2018
		408	Jun 14/2022
		409	Jun 12/2018
		410	May 26/2014
		411	May 26/2014
24–63–13	ALL	501	May 26/2014
		502	May 26/2014
		503	May 26/2014
		504	May 26/2014
		505	May 26/2014
		506	Dec 03/2018
		507	May 26/2014
		508	Jun 14/2022
		509	Jun 14/2022
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		528	Jun 14/2022
		529	Jun 14/2022
		530	Jun 14/2022
		531	Jun 14/2022
		532	Jun 14/2022
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		535	May 26/2014
		536	Jun 14/2022
		537	Jun 14/2022
		538	Jun 14/2022
		539	May 26/2014
24–63–15	ALL	401	May 26/2014
		402	Jun 14/2022
		403	Mar 31/2015
		404	May 26/2014
24–64–00	ALL	101	May 26/2014
		102	May 26/2014
24–64–01	ALL	401	Mar 15/2018
		402	Mar 15/2018
		403	May 26/2014
		404	Dec 03/2018
		405	Jul 01/2020
		406	Jul 01/2020
24–64–01	ALL	501	May 26/2014
		502	May 26/2014
		503	May 26/2014
		504	May 26/2014
		505	May 26/2014
		506	May 26/2014
24–64–03	ALL	401	Mar 15/2018
		402	May 26/2014
		403	Dec 03/2018
		404	Dec 03/2018
24–64–04	ALL	401	Mar 15/2018
		402	Mar 15/2018
		403	Mar 15/2018
		404	Mar 15/2018
24–64–05	ALL	401	Mar 15/2018
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		403	May 26/2014
		404	Mar 15/2018
		405	Mar 15/2018

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		403	May 26/2014
		404	Mar 15/2018
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		402	May 26/2014
		403	Mar 15/2018
		404	Mar 15/2018
24–64–17	ALL	401	Mar 15/2018
		402	May 26/2014
		403	May 26/2014
		404	Mar 15/2018
		405	Mar 15/2018
24–65–00	ALL	401	Sep 25/2020
		402	Sep 25/2020
		403	Mar 31/2015
		404	Jul 08/2019
		405	Jul 08/2019
		406	Jul 08/2019
		407	Sep 25/2020
		408	Sep 25/2020
		409	Jan 15/2020
		410	Jan 15/2020
		411	Jan 15/2020
24–65–00	ALL	501	Sep 25/2020
		502	Mar 29/2022
		503	Sep 25/2020
		504	Sep 25/2020
		505	Sep 25/2020
		506	Jan 15/2020
24–65–01	ALL	201	Sep 25/2020
		202	Sep 25/2020
		203	Sep 25/2020
		204	Sep 25/2020
		205	Sep 25/2020
		206	Jul 08/2019
		207	Jul 08/2019
		208	Jul 08/2019
		209	Jul 08/2019
		210	Jul 08/2019
		211	Jul 08/2019
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		402	May 26/2014
		403	May 26/2014
		404	May 26/2014
		405	May 26/2014
		406	Dec 03/2018
		407	Dec 03/2018
		408	Jul 01/2020
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		202	Jun 12/2018
		203	Jun 12/2018
		204	Jun 12/2018
		205	Jun 12/2018
		206	Jun 12/2018
		207	Jun 12/2018
		208	Jun 12/2018
		209	Jun 12/2018
24–65–05	ALL	201	Dec 18/2017
		202	Mar 29/2022
		203	Mar 29/2022
		204	Mar 29/2022
		205	Mar 29/2022
		206	Mar 29/2022
		207	Mar 29/2022
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DC POWER–CENTER RELAYS	24–61–81		
Removal/Installation		ALL	
TASK 24–61–81–000–801			
Removal of the DC Power–Center Relays			401
TASK 24–61–81–400–801			
Installation of the DC Power–Center Relays			405

Subject	Ch–Se–Su	Effectivity	Page
DCPC BATTERY DIODE	24–61–82		
Removal/Installation		ALL	
TASK 24–61–82–000–801			
Removal of the DCPC Battery–Diode Printed–Circuit–Board (PCB)			401
TASK 24–61–82–400–801			
Installation of the DCPC Battery–Diode Printed–Circuit–Board (PCB)			405
SECONDARY POWER CENTER (SPC) SYSTEM	24–62–00		
Component Location		ALL	
TASK 24–62–00–992–801			
Component Location			101
SECONDARY POWER CENTER (SPC)	24–62–01		
Removal/Installation		ALL	
TASK 24–62–01–000–801			
Removal of the Secondary Power Center (SPC)			401
TASK 24–62–01–400–801			
Installation of the Secondary Power Center (SPC)			405
Adjustment/Test		ALL	
TASK 24–62–01–710–801			
Operational Test of the Secondary Power Center (SPC)			501
SECONDARY POWER CENTER (SPC) FUSES	24–62–03		
Removal/Installation		ALL	
TASK 24–62–03–000–801			
Removal of the Secondary Power Center (SPC) Fuses			401
TASK 24–62–03–400–801			
Installation of the Secondary Power Center (SPC) Fuses			404
SECONDARY POWER CENTER (SPC) RELAYS	24–62–04		
Removal/Installation		ALL	
TASK 24–62–04–000–801			
Removal of the Secondary Power Center (SPC) Relays			401
TASK 24–62–04–400–801			
Installation of the Secondary Power Center (SPC) Relays			405

Subject	Ch–Se–Su	Effectivity	Page
REMOTE–CONTROL CIRCUIT BREAKER (RCCB)	24–62–05		
Removal/Installation		ALL	
TASK 24–62–05–000–801			
Removal of the Remote–Control Circuit Breaker (RCCB) Contactor and RCCB Thermal Current Sensor			401
TASK 24–62–05–400–801			
Installation of the Remote–Control Circuit Breaker (RCCB) Contactor and RCCB Thermal Current Sensor			408
COMPONENT LOCATION	24–63–00		
Component Location		ALL	
TASK 24–63–00–992–802			
Junction Boxes–Component Location			101
JUNCTION BOX JB1	24–63–01		
Removal/Installation		ALL	
TASK 24–63–01–000–802			
Removal of the Junction Box JB1			401
TASK 24–63–01–400–802			
Installation of the Junction Box JB1			404
TASK 24–63–01–000–803			
Removal of the Junction Box JB1 Circuit–Cards			406
TASK 24–63–01–400–803			
Installation of the Junction Box JB1 Circuit–Cards			409
Adjustment/Test		ALL	
TASK 24–63–01–710–805			
Operational Test of Junction Box JB1 Card 1			501
TASK 24–63–01–710–806			
Operational Test of Junction Box JB1 Card 2			503
TASK 24–63–01–710–807			
Operational Test of Junction Box JB1 Card 3			505
TASK 24–63–01–710–808			
Operational Test of Junction Box JB1 Card 4			507
TASK 24–63–01–710–809			
Operational Test of Junction Box JB1 Card 5			508
TASK 24–63–01–720–801			
Functional Test of Junction Box JB1			509
JUNCTION BOX JB1 TRAY	24–63–03		
Removal/Installation		ALL	
TASK 24–63–03–000–801			
Removal of the Junction Box JB1 Tray			401
TASK 24–63–03–400–801			
Installation of the Junction Box JB1 Tray			403

Subject	Ch–Se–Su	Effectivity	Page
JUNCTION BOX JB2	24–63–05		
Removal/Installation		ALL	
TASK 24–63–05–000–802			
Removal of the Junction Box JB2 Circuit–Cards			401
TASK 24–63–05–400–802			
Installation of the Junction Box JB2 Circuit–Cards			404
TASK 24–63–05–000–803			
Removal of the Junction Box JB2			407
TASK 24–63–05–400–803			
Installation of the Junction Box JB2			410
Adjustment/Test		ALL	
TASK 24–63–05–710–826			
Operational Test of Junction Box JB2 Card 1			501
TASK 24–63–05–710–827			
Operational Test of Junction Box JB2 Card 2			503
TASK 24–63–05–710–828			
Operational Test of Junction Box JB2 Card 3			505
TASK 24–63–05–710–829			
Operational Test of Junction Box JB2 Card 4			506
TASK 24–63–05–710–830			
Operational Test of Junction Box JB2 Card 5			508
TASK 24–63–05–720–801			
Functional Test of the Junction Box JB2			509
JUNCTION BOX JB2 TRAY	24–63–07		
Removal/Installation		ALL	
TASK 24–63–07–000–801			
Removal of the Junction Box JB2 Tray			401
TASK 24–63–07–400–801			
Installation of the Junction Box JB2 Tray			403
JUNCTION BOX JB3	24–63–09		
Removal/Installation		ALL	
TASK 24–63–09–000–802			
Removal of the Junction Box JB3			401
TASK 24–63–09–400–802			
Installation of the Junction Box JB3			404
TASK 24–63–09–000–803			
Removal of the Junction Box JB3 Circuit–Cards			406
TASK 24–63–09–400–803			
Installation of the Junction Box JB3 Circuit–Cards			409
Adjustment/Test		ALL	
TASK 24–63–09–710–801			
Operational Test of Junction Box JB3 Card 1			501
TASK 24–63–09–710–802			
Operational Test of Junction Box JB3 Card 2			503
TASK 24–63–09–710–803			
Operational Test of Junction Box JB3 Card 3			505
TASK 24–63–09–710–804			

Subject	Ch–Se–Su	Effectivity	Page
Operational Test of Junction Box JB3 Card 4			507
TASK 24–63–09–710–805			
Operational Test of Junction Box JB3 Card 5			508
TASK 24–63–09–720–801			
Functional Test of Junction Box JB3			510
JUNCTION BOX JB3 TRAY	24–63–11		
Removal/Installation		ALL	
TASK 24–63–11–000–801			
Removal of the Junction Box JB3 Tray			401
TASK 24–63–11–400–801			
Installation of the Junction Box JB3 Tray			403
JUNCTION BOX JB4	24–63–13		
Removal/Installation		ALL	
TASK 24–63–13–000–802			
Removal of the Junction Box JB4			401
TASK 24–63–13–400–802			
Installation of the Junction Box JB4			404
TASK 24–63–13–000–803			
Removal of the Junction Box JB4 Circuit–Cards			406
TASK 24–63–13–400–803			
Installation of the Junction Box JB4 Circuit–Cards			409
Adjustment/Test		ALL	
TASK 24–63–13–710–801			
Operational Test of Junction Box JB4 Card 1			501
TASK 24–63–13–710–802			
Operational Test of Junction Box JB4 Card 2			503
TASK 24–63–13–710–803			
Operational Test of Junction Box JB4 Card 3			504
TASK 24–63–13–710–804			
Operational Test of Junction Box JB4 Card 4			505
TASK 24–63–13–710–805			
Operational Test of Junction Box JB4 Card 5			506
TASK 24–63–13–720–801			
Functional Test of Junction Box JB4			508
JUNCTION BOX JB4 TRAY	24–63–15		
Removal/Installation		ALL	
TASK 24–63–15–000–801			
Removal of the Junction Box JB4 Tray			401
TASK 24–63–15–400–801			
Installation of the Junction Box JB4 Tray			403

Subject	Ch–Se–Su	Effectivity	Page
AUXILIARY DC POWER CENTER (AUX DCPC) SYSTEM	24–64–00		
Component Location		ALL	
TASK 24–64–00–992–801			
Component Location			101
AUXILIARY DC POWER CENTER (AUX DCPC)	24–64–01		
Removal/Installation		ALL	
TASK 24–64–01–000–801			
Removal of the Auxiliary DC Power Center (Aux DCPC)			401
TASK 24–64–01–400–801			
Installation of the Auxiliary DC Power Center (Aux DCPC)			404
Adjustment/Test		ALL	
TASK 24–64–01–710–801			
Operational Test of the Auxiliary DC Power Center (Aux DCPC)			501
AUXILIARY DC POWER CENTER (AUX DCPC) FUSES	24–64–03		
Removal/Installation		ALL	
TASK 24–64–03–000–801			
Removal of the Auxiliary DC Power Center (Aux DCPC) Fuses			401
TASK 24–64–03–400–801			
Installation of the Auxiliary DC Power Center (Aux DCPC) Fuses			403
AUXILIARY DC POWER CENTER (AUX DCPC) RELAYS	24–64–04		
Removal/Installation		ALL	
TASK 24–64–04–000–801			
Removal of the Auxiliary DC Power Center (AUX DCPC) Relays			401
TASK 24–64–04–400–801			
Installation of the Auxiliary DC Power Center (AUX DCPC) Relays			404
AUXILIARY DC POWER CONTACTOR	24–64–05		
Removal/Installation		ALL	
TASK 24–64–05–000–801			
Removal of the Auxiliary DC Power Contactor			401
TASK 24–64–05–400–801			
Installation of the Auxiliary DC Power Contactor			404

Subject	Ch–Se–Su	Effectivity	Page
AUXILIARY POWER START CONTACTOR	24–64–09		
Removal/Installation		ALL	
TASK 24–64–09–000–801			
Removal of the Auxiliary Power Start Contactor			401
TASK 24–64–09–400–801			
Installation of the Auxiliary Power Start Contactor			404
AUXILIARY POWER CENTER PRIMARY–LOGIC	24–64–13		
Removal/Installation		ALL	
TASK 24–64–13–000–801			
Removal of the Auxiliary Power Center Primary–Logic			401
TASK 24–64–13–400–801			
Installation of the Auxiliary Power Center Primary–Logic			403
AUXILIARY POWER UNIT SENSOR	24–64–17		
Removal/Installation		ALL	
TASK 24–64–17–000–801			
Removal of the Auxiliary Power Unit Sensor			401
TASK 24–64–17–400–801			
Installation of the Auxiliary Power Unit Sensor			404
DC CIRCUIT BREAKERS	24–65–00		
Removal/Installation		ALL	
TASK 24–65–00–960–801			
Replacement of DC Circuit Breakers			401
Adjustment/Test		ALL	
TASK 24–65–00–710–801			
Operational Test of the DC Circuit Breakers			501
CIRCUIT BREAKER PANELS (LCBP/RCBP)	24–65–01		
Maintenance Practices		ALL	
TASK 24–65–01–010–801			
Open the Left Circuit–Breaker–Panel (LCBP)			201
TASK 24–65–01–410–801			
Close the Left Circuit–Breaker–Panel (LCBP)			204
TASK 24–65–01–010–802			
Open the Right Circuit–Breaker–Panel (RCBP)			206
TASK 24–65–01–410–802			
Close the Right Circuit–Breaker–Panel (RCBP)			210
Removal/Installation		ALL	
TASK 24–65–01–000–801			
Removal of the Cockpit Circuit–Breaker Panel (CCBP)			401
TASK 24–65–01–400–801			
Installation of the Cockpit Circuit–Breaker Panel (CCBP)			406

Subject	Ch–Se–Su	Effectivity	Page
SECONDARY–POWER–CENTER (SPC)	24–65–03		
CIRCUIT–BREAKER–PANELS			
Maintenance Practices		ALL	
TASK 24–65–03–010–801			
Open the Left Secondary–Power–Center (LSPC) Circuit–Breaker–Panel			201
TASK 24–65–03–410–801			
Close the Left Secondary–Power–Center (LSPC) Circuit–Breaker–Panel			204
TASK 24–65–03–010–802			
Open the Right Secondary–Power–Center (RSPC) Circuit–Breaker–Panel			206
TASK 24–65–03–410–802			
Close the Right Secondary–Power–Center (RSPC) Circuit–Breaker–Panel			208
DC POWER CENTER (DCPC)	24–65–05		
CIRCUIT–BREAKER–PANELS			
Maintenance Practices		ALL	
TASK 24–65–05–010–801			
Open the Left DC Power Center (LDCPC) Circuit–Breaker–Panel			201
TASK 24–65–05–410–801			
Close the Left DC Power Center (LDCPC) Circuit–Breaker–Panel			205
TASK 24–65–05–010–802			
Open the Right DC Power Center (RDCPC) Circuit–Breaker–Panel			207
TASK 24–65–05–410–802			
Close the Right DC Power Center (RDCPC) Circuit–Breaker–Panel			210

DC POWER CENTER (DCPC) - REMOVAL/INSTALLATION

TASK 24–61–01–000–801

1. Removal of the DC Power Center (DCPC)

A. Reference Information

REFERENCE	DESIGNATION
TASK 24–00–00–910–801	Electrical/Electronic Safety Precautions
TASK 24–00–00–910–802	Electrostatic–Discharge Safety Precautions
TASK 24–32–00–040–801	Disconnect the Batteries
TASK 52–41–00–010–801	Open the Aft Equipment–Compartment Door (182GL)

B. Setup

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

(2) Obey all the electrostatic–discharge safety precautions (TASK 24–00–00–910–802).

(3) Open the aft equipment compartment door (182GL) (TASK 52–41–00–010–801).

(4) Disconnect the batteries (TASK 24–32–00–040–801).

C. Procedure

Refer to Figure 401.

CAUTION: MAKE SURE THE DCPC THAT YOU REMOVED IS CORRECTLY PUT IN THE SHIPPING CONTAINER. USE THE SHIPPING CONTAINER AGAIN WITH ALL PROTECTIVE MATERIAL SUPPLIED WITH THE NEW DCPC. IF YOU DO NOT DO THIS, DAMAGE TO THE DCPC CAN OCCUR DURING SHIPMENT.

(1) Remove the right dc power center A36 (19).

(2) To remove the left dc power center (LDCPC) A35 (1), do the below steps.

(3) Loosen the captive screws (37).

(4) Remove the four cover plates (38).

NOTE: Do not use any air–powered tools when you remove the nuts (7), (10) and/or (14). If you use air–powered tools when you remove the nuts (7), (10) and/or (14), you can cause damage to the stud threads.

(5) Remove the nuts (7), (10), and (14).

(6) Remove the spring–washers (6), (9), and (13).

(7) Remove the flat washers (5), (8), and (12).

(8) Identify, remove, and tag all of the terminal lugs (11).

(9) Disconnect the electrical connectors A35P5 (4), A35P4 (15), A35P3 (18), A35P2 (17), and A35P1 (16), from the LDCPC A35 (1).

(10) Put protective covers on the connectors A35P5 (4), A35P4 (15), A35P3 (18), A35P2 (17), A35P1 (16) and the receptacles.

(11) Hold the LDCPC A35 (1), and remove the screws (2), the washers (3) and the backplate (41) from the LDCPC A35 (1).

(12) Remove the LDCPC A35 (1).

(13) To remove the right dc power center (RDCPC) A36 (19), do the below steps.

(14) Loosen the captive screws (39).

(15) Remove the four cover plates (40).

NOTE: Do not use any air–powered tools when you remove the nuts (24), (25) and/or (28). If you use air–powered tools when you remove the nuts (24), (25) and/or (28), you can cause damage to the stud threads.

(16) Remove the nuts (24), (25), and (28).

(17) Remove the spring–washers (23), (26), and (29).

(18) Remove the flat washers (22), (27), and (30).

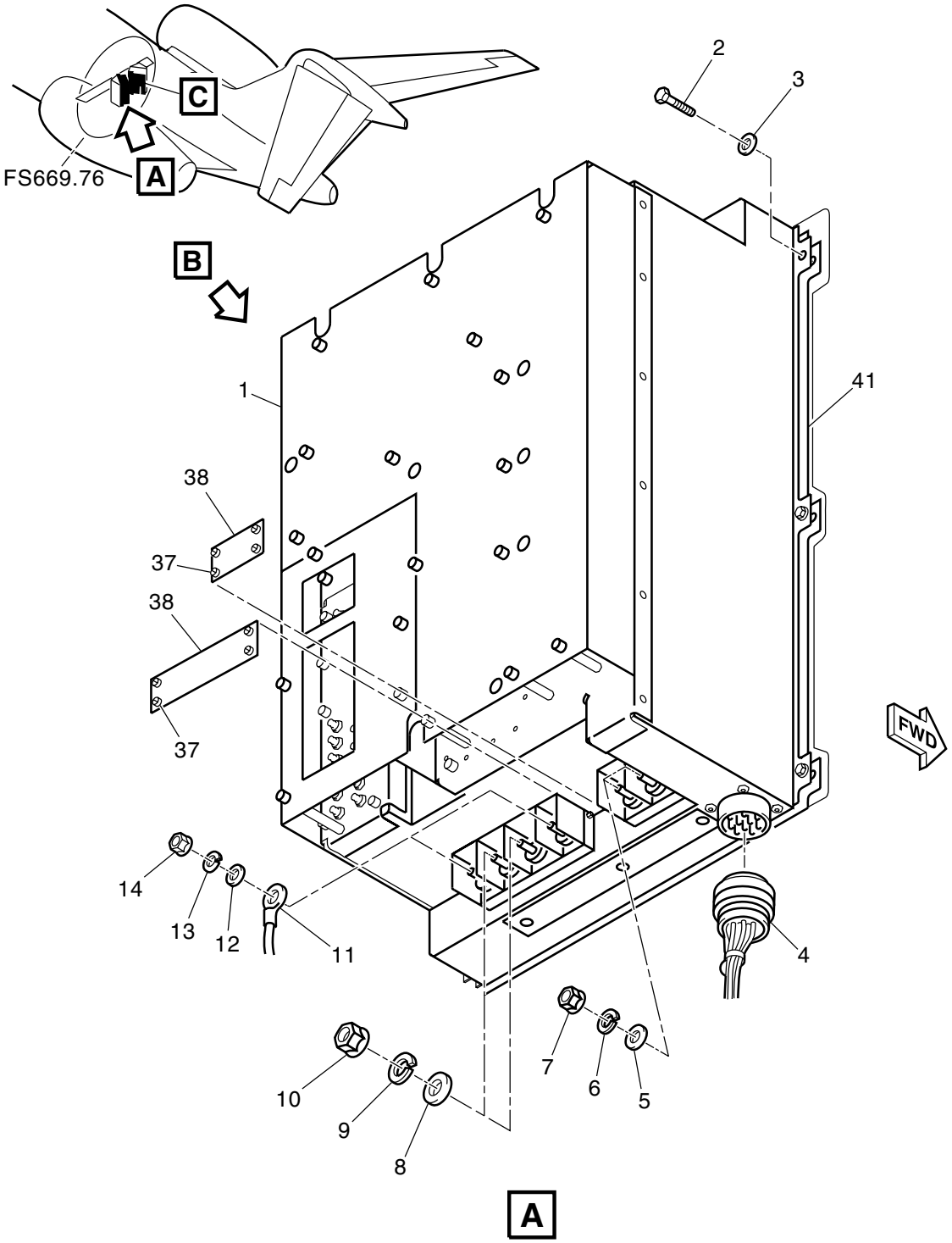
(19) Identify, remove, and tag all of the terminal lugs (31).

(20) Disconnect the electrical connectors A36P5 (32), A36P4 (33), A36P1 (34), A36P2 (35), and A36P3 (36) from the right dc power center A36 (19).

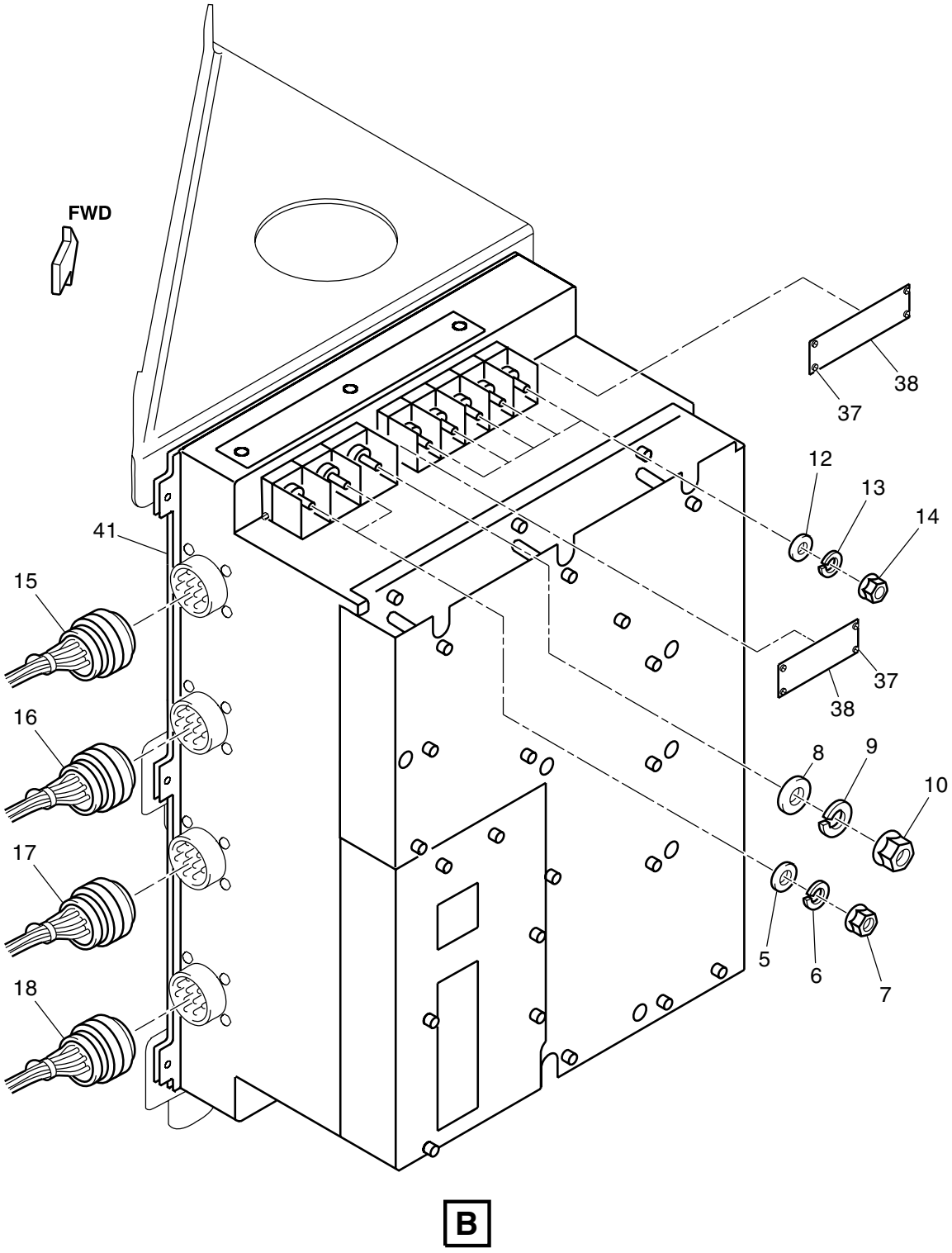
(21) Put protective covers on the connectors A36P5 (32), A36P4 (33), A36P1 (34), A36P2 (35), A36P3 (36), and the receptacles.

(22) Hold the RDCPC A36 (19) and remove the screws (21), the washers (20) and the backplate (41) from the RDCPC A36 (19).

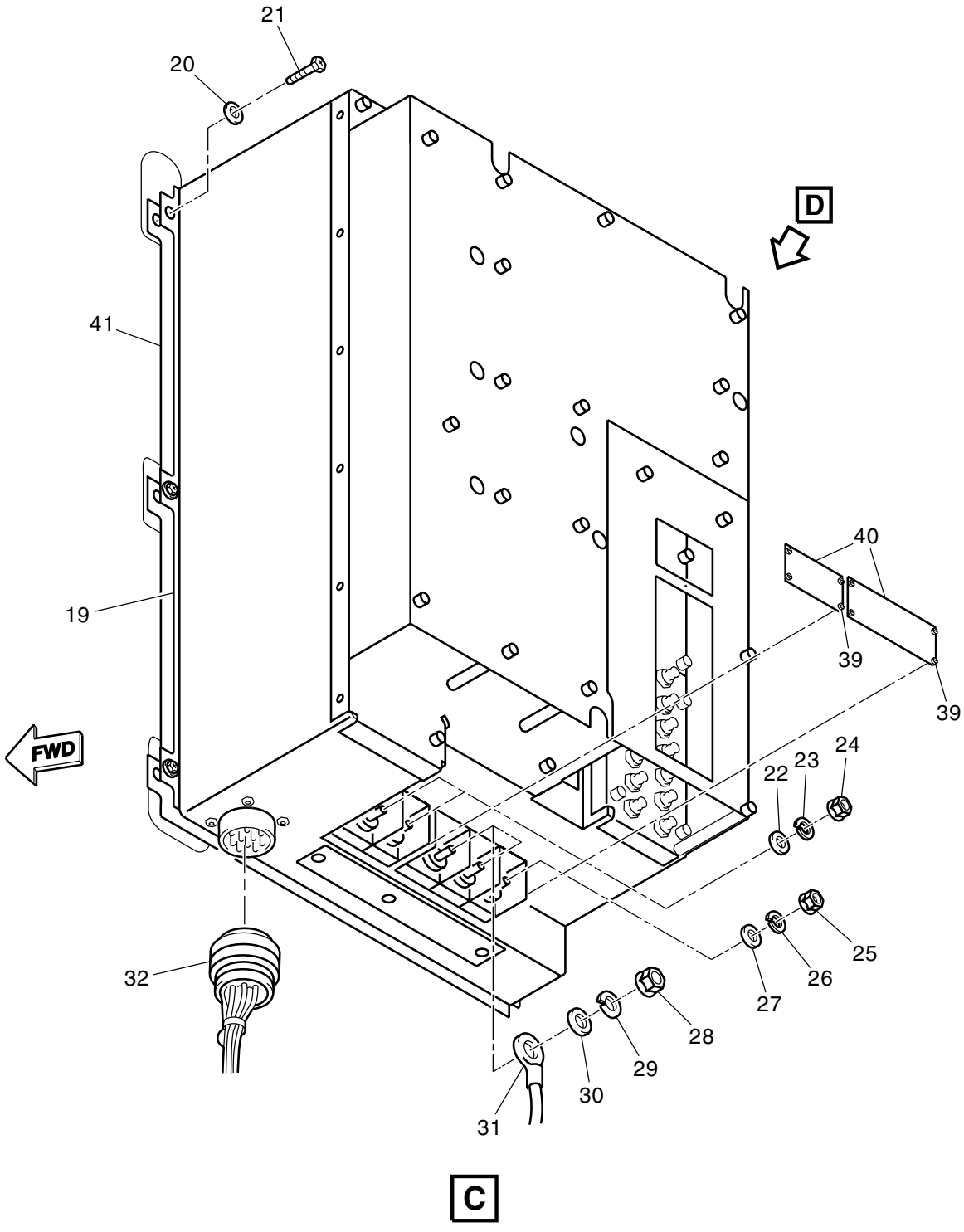
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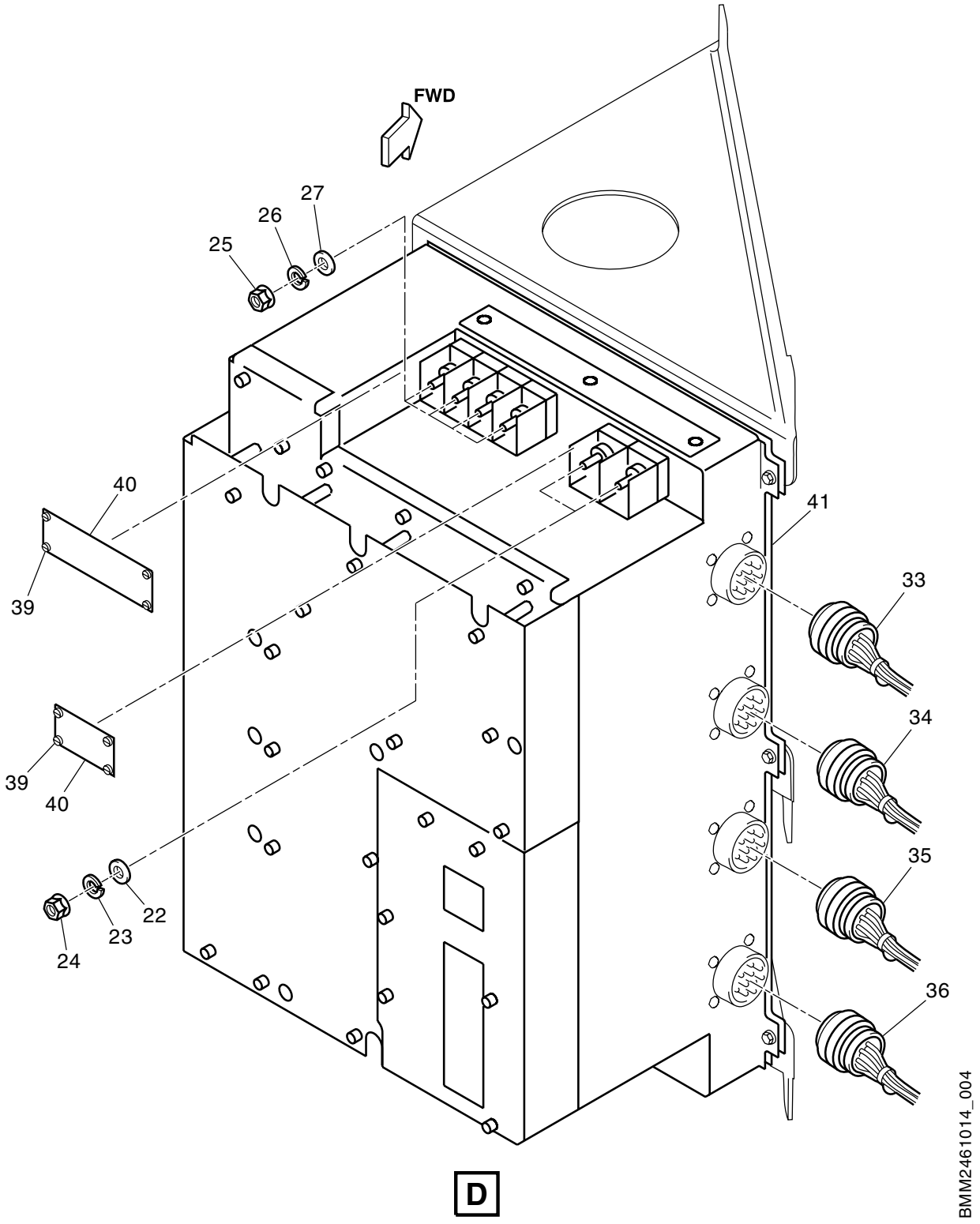
DC Power Center (DCPC) – Removal/Installation
Figure 401 (Sheet 1 of 4)



DC Power Center (DCPC) – Removal/Installation
Figure 401 (Sheet 2 of 4)



DC Power Center (DCPC) – Removal/Installation
Figure 401 (Sheet 3 of 4)



DC Power Center (DCPC) – Removal/Installation
Figure 401 (Sheet 4 of 4)

TASK 24–61–01–400–801

2. Installation of the DC Power Center (DCPC)

A. Reference Information

REFERENCE	DESIGNATION
TASK 24–32–00–440–801	Connect the Batteries
TASK 24–61–01–720–801	Functional Test of the DC Power Center (DCPC)
TASK 52–41–00–410–801	Close the Aft Equipment–Compartment Door (182GL)
SPM–MM 20–21–00–910–801	Torquing of Threaded Fasteners
SPM–MM 51–80–00–760–801	Electrical Bonding Test

B. Tools and Equipment

REFERENCE	DESIGNATION
Commercially Available	Wrench, Torque 2.21 lbf in (0.25 Nm)
Commercially Available	Wrench, Torque 20 to 25 lbf in (2.26 to 2.82 Nm)
Commercially Available	Wrench, Torque 33.80 to 41.58 lbf in (3.82 to 4.70 Nm)
Commercially Available	Wrench, Torque 60.69 to 80.69 lbf in (6.86 to 9.12 Nm)
Commercially Available	Wrench, Torque 98.47 to 134.49 lbf in (11.13 to 15.20 Nm)

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

C. Parts

REFERENCE	NAME OF PART	QUANTITY	IPC SEQUENCE NO.
1	Power Center, Left DC	1	24–61–01–01–005
2	Screw	6	24–61–01–01–070
3	Washer	6	24–61–01–01–075

5	Washer, Flat	4	24–61–01–01–025
6	Washer, Spring	4	24–61–01–01–023
7	Nut	4	24–61–01–01–022
8	Washer, Flat	3	24–61–01–01–055
9	Washer, Spring	3	24–61–01–01–050
10	Nut	3	24–61–01–01–045
12	Washer, Flat	7	24–61–01–01–040
13	Washer, Spring	7	24–61–01–01–035
14	Nut	7	24–61–01–01–030
19	Power Center, Right DC	1	24–61–01–02–005
20	Washer	6	24–61–01–02–075
21	Screw	6	24–61–01–02–070
22	Washer, Flat	4	24–61–01–02–025
23	Washer, Spring	4	24–61–01–02–020
24	Nut	4	24–61–01–02–022
25	Nut	6	24–61–01–02–030
26	Washer, Spring	6	24–61–01–02–035
27	Washer, Flat	6	24–61–01–02–040
28	Nut	2	24–61–01–02–045
29	Washer, Spring	2	24–61–01–02–050
30	Washer, Flat	2	24–61–01–02–055
38	Plate, Cover	4	24–61–01–01–146
39	Screws, Captive	16	24–61–01–01–137
40	Plate, Cover	4	24–61–01–01–136
41	Backplate	2	24–61–01–01–065 24–61–01–02–065

D. Setup

(1) Make sure that the aircraft is in the same configuration as in the removal task.

E. Procedure

Refer to Figure 401.

(1) To install the left dc power center (LDCPC) A35 (1), do the below steps.

NOTE: Make sure that the mating surfaces are clean with no corrosion, paint, grease, or preservation fluids.

(2) Put the backplate (41) and the LDCPC A35 (1) in position.

NOTE: Make sure that the formed–in beads of the backplate are installed facing towards the mounting structure.

(3) Install the screws (2) and the washers (3).

(4) Torque the screws (2) from 20 to 25 lbf in (2.26 to 2.82 Nm) (SPM–MM 20–21–00–910–801).

(5) Remove the protective covers A35P5 (4), A35P4 (15), A35P3 (18), A35P2 (17), and A35P1 (16) from the connectors and the receptacles.

CAUTION: DO NOT USE TOO MUCH FORCE WHEN YOU CONNECT THE ELECTRICAL CONNECTORS. IF THE ELECTRICAL CONNECTORS DO NOT ENGAGE EASILY, EXAMINE THE CONNECTORS AND PINS FOR DAMAGE. DAMAGED CONNECTORS CAN CAUSE EQUIPMENT AND/OR SYSTEMS TO OPERATE INCORRECTLY.

(6) Connect the electrical connectors A35P5 (4), A35P4 (15), A35P3 (18), A35P2 (17), and A35P1 (16) to the LDCPC A35 (1).

NOTE: Make sure that all cable lugs, terminal posts and hardware are free of oxidation/corrosion. Clean all cable lugs, terminal posts and hardware as necessary, refer to best shop practices. If you do not clean the cable lugs, terminal posts and hardware, the cable conductivity will decrease and cause generator failure intermittently, when the generator operates during heavy current load outputs.

(7) Install all of the terminal lugs (11) on the LDCPC A35 (1).

(8) Install the flat–washers (5), (8), and (12).

(9) Install the spring–washers (6), (9), and (13).

NOTE: Do not use any air–powered tools when you install the nuts (7), (10) and/or (14). If you use air–powered tools when you install the nuts (7), (10) and/or (14), you can cause damage to the stud threads.

(10) Install the nuts (7), (10), and (14).

(11) Torque the nuts (7) from 60.69 to 80.69 lbf in (6.86 to 9.12 Nm) (SPM–MM 20–21–00–910–801).

(12) Torque the nut (10) from 98.47 to 134.49 lbf in (11.13 to 15.20 Nm) (SPM–MM 20–21–00–910–801).

(13) Torque the nuts (14) from 33.80 to 41.58 lbf in (3.82 to 4.70 Nm) (SPM–MM 20–21–00–910–801).

(14) Put the four cover plates (38) in position and tighten the captive screws (37).

(15) Torque the captive screws (37) to 2.21 lbf in (0.25 Nm) (SPM–MM 20–21–00–910–801).

(16) To install the right dc power center (RDCPC) A36 (19), do the below steps.

(17) Put the backplate (41) and the RDCPC A36 (19) in position.

NOTE: Make sure that the formed–in beads of the backplate are installed facing towards the mounting structure.

(18) Install the screws (21) and the washers (20).

(19) Torque the screws (21) from 20 to 25 lbf in (2.26 to 2.82 Nm) (SPM–MM 20–21–00–910–801).

(20) Remove the protective covers from the connectors A36P5 (32), A36P4 (33), A36P1 (34), A36P2 (35) and A36P3 (36) and the receptacles.

CAUTION: DO NOT USE TOO MUCH FORCE WHEN YOU CONNECT THE ELECTRICAL CONNECTORS. IF THE ELECTRICAL CONNECTORS DO NOT ENGAGE EASILY, EXAMINE THE CONNECTORS AND PINS FOR DAMAGE. DAMAGED CONNECTORS CAN CAUSE EQUIPMENT AND/OR SYSTEMS TO OPERATE INCORRECTLY.

(21) Connect the electrical connectors A36P5 (32), A36P4 (33), A36P1 (34), A36P2 (35), and A36P3 (36) to the RDCPC A36 (19).

(22) Install all of the terminal lugs (31) on the RDCPC A36 (19).

NOTE: Make sure that all cable lugs, terminal posts and hardware are free of oxidation/corrosion. Clean all cable lugs, terminal posts and hardware as necessary, refer to best shop practices. If you do not clean the cable lugs, terminal posts and hardware, the cable conductivity will decrease and cause generator failure intermittently, when the generator operates during heavy current load outputs.

(23) Install the flat–washers (22), (27), and (30).

(24) Install the spring–washers (23), (26), and (29).

NOTE: Do not use any air–powered tools when you install the nuts (24), (25) and/or (28). If you use air–powered tools when you install the nuts (24), (25) and/or (28), you can cause damage to the stud threads.

(25) Install the nuts (24), (25), and (28).

(26) Torque the nuts (24) from 60.69 to 80.69 lbf in (6.86 to 9.12 Nm) (SPM–MM 20–21–00–910–801).

(27) Torque the nut (25) from 33.80 to 41.58 lbf in (3.82 to 4.70 Nm) (SPM–MM 20–21–00–910–801).

(28) Torque the nut (28) from 98.47 to 134.49 lbf in (11.13 to 15.20 Nm) (SPM–MM 20–21–00–910–801).

(29) Put the four cover plates (40) in position and tighten the captive screws (39).

(30) Torque the captive screws (39) to 2.21 lbf in (0.25 Nm) (SPM–MM 20–21–00–910–801).

(31) Do the electrical bonding test for the dc power center (SPM–MM 51–80–00–760–801).

(32) Connect the batteries (TASK 24–32–00–440–801).

(33) Do the functional test of the dc power center (DCPC) (TASK 24–61–01–720–801).

F. Closeout

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

(2) Close the aft equipment–compartment door (182GL) (TASK 52–41–00–410–801).

DC POWER CENTER (DCPC) - ADJUSTMENT/TEST

TASK 24–61–01–720–801

1. Functional Test of the DC Power Center (DCPC)

A. Personnel

Two persons are necessary to do this task.

B. Reference Information

REFERENCE	DESIGNATION
TASK 24–00–00–910–801	Electrical/Electronic Safety Precautions
TASK 24–00–00–910–802	Electrostatic–Discharge Safety Precautions
TASK 24–31–05–710–801	Operational Test of the Main Generator
TASK 24–31–09–710–801	Operational Test of the APU Generator
TASK 24–41–00–861–801	Connect and Energize External DC Power
TASK 24–41–00–861–802	Remove External DC Power
TASK 24–65–01–010–801	Open the Left Circuit–Breaker–Panel (LCBP)
TASK 24–65–01–010–802	Open the Right Circuit–Breaker–Panel (RCBP)
TASK 24–65–01–410–801	Close the Left Circuit–Breaker–Panel (LCBP)
TASK 24–65–01–410–802	Close the Right Circuit–Breaker–Panel (RCBP)
TASK 29–12–33–710–801	Operational Test of the Firewall Hydraulic Shutoff–Valve (FWSOV)
TASK 52–41–00–010–801	Open the Aft Equipment–Compartment Door (182GL)
TASK 52–41–00–410–801	Close the Aft Equipment–Compartment Door (182GL)

C. Tools and Equipment

REFERENCE	DESIGNATION
Commercially Available	Digital Multimeter

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

D. Setup

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

(2) Obey all the electrostatic–discharge safety precautions (TASK 24–00–00–910–802).

(3) Make sure that no electrical power is connected to the aircraft.

(4) Make sure that the aircraft is in a weight–on–wheels configuration.

(5) Open the left circuit breaker panel (LCBP) (TASK 24–65–01–010–801).

(6) Open the right circuit breaker panel (RCBP) (TASK 24–65–01–010–802).

(7) Open all circuit breakers at the locations that follow:
- Left Circuit Breaker Panel (LCBP)
- Right Circuit Breaker Panel (RCBP)
- Left Secondary Power Center (LSPC)
- Right Secondary Power Center (RSPC).

(8) Close the circuit breakers that follow:

LOCATION	CB NUMBER	CB NAME	ZONE
LSPC	B3	LBATT SEC BUS	221
RSPC	B3	RBATT SEC BUS	222

(9) Open the aft equipment–compartment door (182GL) (TASK 52–41–00–010–801).

(10) Open all circuit breakers at the locations that follow:
- Left DC Power Center (LDCPC)
- Right DC Power Center (RDCPC)

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(11) Close the circuit breakers that follow:

LOCATION	CB NUMBER	CB NAME	ZONE
LDCPC	C1	L DCPC ESS BUS	311
LDCPC	C2	R DCPC ESS BUS	311
LDCPC	C3	L SPC BAT BUS	311
LDCPC	C6	ELECT EDC PWR	311
RDCPC	B1	R SPC AUX BUS	312
RDCPC	C1	L DCPC ESS BUS	312
RDCPC	C2	R DCPC ESS BUS	312
RDCPC	C3	R SPC R BAT BUS	312

E. Procedure

Refer to Figure 501.

(1) Disconnect firewall hydraulic shutoff–valves connectors HP7P1 and HP6P1 at location FS 720 L and R.

(2) On the ELECTRICAL control panel, push the L BATT and R BATT push button annunciator (PBA) to on.

NOTE: There will be voltage at the essential pins when a battery is on. With all circuit breakers pulled, there will only be voltage at the main pins and the auxiliary pins for approximately five seconds.

(3) Close the circuit breaker that follows:

LOCATION	CB NUMBER	CB NAME	ZONE
LCBP	C10	HYDRAULIC L SOV	211

(4) Measure the voltage per the table that follows:

Connector	Description	Location	From Pin	To Pin	Result
HP7P1	L HYD SOV	FS720 L	A	Ground	24 V dc

(5) Close the circuit breaker that follows:

LOCATION	CB NUMBER	CB NAME	ZONE
RCBP	C9	HYDRAULIC R SOV	212

(6) Measure the voltages per the table that follows:

Connector	Description	Location	From Pin	To Pin	Result
HP6P1	R HYD SOV	FS720 R	A	Ground	24 V dc

(7) Open the circuit breakers that follow:

LOCATION	CB NUMBER	CB NAME	ZONE
LCBP	C10	HYDRAULIC L SOV	211
RCBP	C9	HYDRAULIC R SOV	212

(8) On the ELECTRICAL control panel, push the L BATT PBA and the R BATT PBA to off

(9) Reconnect firewall hydraulic shutoff–valves connectors HP7P1 and HP6P1 at location FS 720 L and R.

(10) On the ELECTRICAL control panel, push the L BATT PBA to on.

NOTE: There will be voltage at the essential pins when a battery is on. With all circuit breakers pulled, there will only be voltage at the main pins and the auxiliary pins for approximately five seconds.

NOTE: To measure the voltages, operate the main battery–switches ON and OFF if necessary. It is because of the power shedding after 5 seconds.

(11) Measure the voltages per the table that follows:

Connector	Description	Location	From Pin	To Pin	Result
STUD	LCBP	CBP1	T1(Main)	Ground	24 V dc
STUD	LCBP	CBP1	T2 (Ess)	Ground	24 V dc
STUD	RCBP	CBP2	T1(Main)	Ground	24 V dc

Connector	Description	Location	From Pin	To Pin	Result
STUD	RCBP	CBP2	T2 (Ess)	Ground	24 V dc
A35 STUD	LDCPC	Aft Fuselage Compartment	T7 (Tie)	Ground	24 V dc
A37 STUD	LSPC	L Equip Rack	T6 (Aux)	Ground	24 V dc
A38 STUD	RSPC	R Equip Rack	T6 (Aux)	Ground	24 V dc

(12) On the ELECTRICAL control panel, push the L BATT PBA to off.

(13) Measure the voltages per the table that follows:

Connector	Description	Location	From Pin	To Pin	Result
STUD	LCBP	CBP1	T1(Main)	Ground	0 V dc
STUD	LCBP	CBP1	T2 (Ess)	Ground	0 V dc
STUD	RCBP	CBP2	T1(Main)	Ground	0 V dc
STUD	RCBP	CBP2	T2 (Ess)	Ground	0 V dc
A35 STUD	LDCPC	Aft Fuselage Compartment	T7 (Tie)	Ground	0 V dc
A37 STUD	LSPC	L Equip. Rack	T6 (Aux)	Ground	0 V dc
A38 STUD	RSPC	R Equip Rack	T6 (Aux)	Ground	0 V dc

(14) On the ELECTRICAL control panel, push the R BATT PBA to on.

NOTE: There will be voltage at the essential pins when a battery is on. With all circuit breakers pulled, there will only be voltage at the main pins and the auxiliary pins for approximately five seconds.

(15) Measure the voltages per the table that follows:

Connector	Description	Location	From Pin	To Pin	Result
STUD	LCBP	CBP1	T1(Main)	Ground	24 V dc
STUD	LCBP	CBP1	T2 (Ess)	Ground	24 V dc

Connector	Description	Location	From Pin	To Pin	Result
STUD	RCBP	CBP2	T1(Main)	Ground	24 V dc
STUD	RCBP	CBP2	T2 (Ess)	Ground	24 V dc
A36 STUD	RDCPC	Aft Fuselage Compartment	T7 (Tie)	Ground	24 V dc
A37 STUD	LSPC	L Equip Rack	T6 (Aux)	Ground	24 V dc
A38 STUD	RSPC	R Equip Rack	T6 (Aux)	Ground	24 V dc

(16) On the ELECTRICAL control panel, push the R BATT PBA to off.

(17) Measure the voltages per the table that follows:

Connector	Description	Location	From Pin	To Pin	Result
STUD	LCBP	CBP1	T1(Main)	Ground	0 V dc
STUD	LCBP	CBP1	T2 (Ess)	Ground	0 V dc
STUD	RCBP	CBP2	T1(Main)	Ground	0 V dc
STUD	RCBP	CBP2	T2 (Ess)	Ground	0 V dc
A36 STUD	RDCPC	Aft Fuselage Compartment	T7 (Tie)	Ground	0 V dc
A37 STUD	LSPC	L Equip Rack	T6 (Aux)	Ground	0 V dc
A38 STUD	RSPC	R Equip Rack	T6 (Aux)	Ground	0 V dc

(18) At the external power control panel, connect and energize the external dc power (TASK 24–41–00–861–801).

(19) At the external power control panel, the EXTERNAL POWER AVAIL light comes on.

(20) On the ELECTRICAL control panel in the flight compartment, the EXT PWR AVAIL light comes on.

(21) Close the circuit breakers that follows:

LOCATION	CB NUMBER	CB NAME	ZONE
LCBP	D1	DCU A	211
LCBP	D2	RDC A	211
LCBP	D3	CTRL 1	211
LCBP	D4	LPWR 1	211
LCBP	D5	RPWR 2	211
RCBP	D1	DCU B	212
RCBP	D2	RDC B	212
RCBP	D3	CTRL 2	212
RCBP	D4	RPWR 1	212
RCBP	D5	LPWR 2	212

(22) At the external power control panel, do the steps that follow:

PROCEDURE	APPLICABLE RESULT
Push the LAMP TEST button	The EXTERNAL POWER AVAIL light comes on The IN USE light comes on The GND SERVICE ON light comes on

(23) On the left dc power center (A35), measure the voltage at stud T3. The multimeter must show 28±2 V dc.

(24) On the ELECTRICAL control panel, do the step that follows:

PROCEDURE	APPLICABLE RESULT
Push the EXT PWR PBA	At the external power control panel, on the EXTERNAL POWER PBA the AVAIL light goes off and the IN USE light goes on On the electrical control panel PBA in the flight compartment, the AVAIL light goes off and the ON light comes on

(25) Measure the voltages per the table that follows:

Connector	Description	Location	From Pin	To Pin	Result
STUD	LCBP	CBP1	T1(Main)	Ground	28 V dc
STUD	LCBP	CBP1	T2 (Ess)	Ground	28 V dc
STUD	RCBP	CBP2	T1(Main)	Ground	28 V dc
STUD	RCBP	CBP2	T2 (Ess)	Ground	28 V dc
A35 STUD	LDCPC	Aft Fuselage Compartment	T7 (Tie)	Ground	28 V dc
A37 STUD	LSPC	L Equip Rack	T6 (Aux)	Ground	28 V dc
A38 STUD	RSPC	R Equip Rack	T6 (Aux)	Ground	28 V dc

(26) On the ELECTRICAL control panel, do the step that follows:

PROCEDURE	APPLICABLE RESULT
Push the EXT PWR PBA	The ON light goes off and the AVAIL light comes on

(27) Measure the voltages on the table that follows:

Connector	Description	Location	From Pin	To Pin	Result
STUD	LCBP	CBP1	T1(Main)	Ground	0 V dc
STUD	LCBP	CBP1	T2 (Ess)	Ground	0 V dc
STUD	RCBP	CBP2	T1(Main)	Ground	0 V dc
STUD	RCBP	CBP2	T2 (Ess)	Ground	0 V dc
A35 STUD	LDCPC	Aft Fuselage Compartment	T7 (Tie)	Ground	0 V dc
A37 STUD	LSPC	L Equip. Rack	T6 (Aux)	Ground	0 V dc
A38 STUD	RSPC	R Equip Rack	T6 (Aux)	Ground	0 V dc

(28) Close all the open circuit breakers at LCBP, RCBP, LDCPC, RDCPC, LSPC, and RSPC.

(29) On the ELECTRICAL control panel, do the step that follows:

PROCEDURE	APPLICABLE RESULT
Push the EXT PWR PBA	The AVAIL light goes off and the ON light comes on

(30) On the multifunction display (MFD), make sure that there are no ELECTRICAL FAULT EICAS messages.

(31) Close the left circuit breaker panel (LCBP) (TASK 24–65–01–410–801).

(32) Close the right circuit breaker panel (RCBP) (TASK 24–65–01–410–802).

(33) Do the operational test of the APU generator (TASK 24–31–09–710–801).

(34) Do an operational test of the main generators (TASK 24–31–05–710–801).

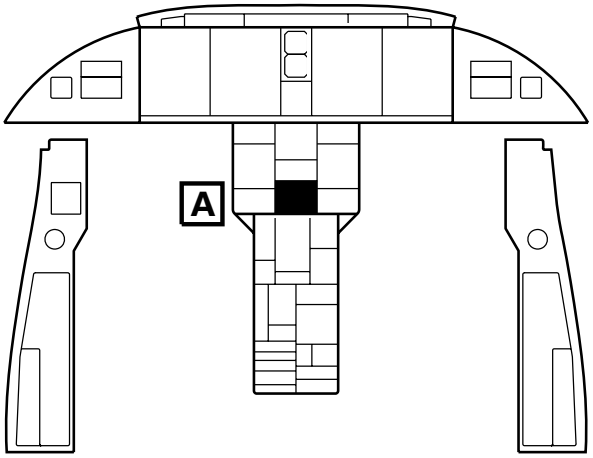
(35) Do the operational test of the firewall hydraulic shutoff–valve (TASK 29–12–33–710–801).

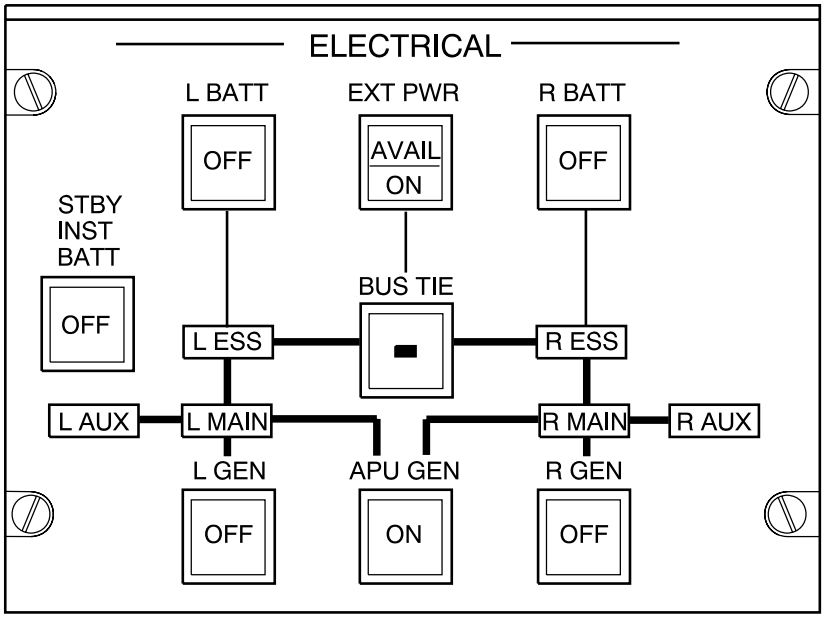
I (36) Close the aft equipment–compartment door (182GL) (TASK 52–41–00–410–801).

(37) Remove the external dc power (TASK 24–41–00–861–802).

F. Closeout

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





ELECTRICAL CONTROL PANEL

A

CMM2461015_001

DC Power Center (DCPC) – Adjustment/Test
Figure 501

EFFECTIVITY: ALL