

MANUFACTURER DOCUMENT PACKAGE

Manufacturer's Manual

ABB ROBOTS

3HAC026253-001

DSQC 661 SYSTEM POWER SUPPLY

Applicable product family: ABB robotics and control systems

OFFICIAL SOURCE

irc5.pdf

The following pages are selected from the supplied manufacturer document and retain their original page content.

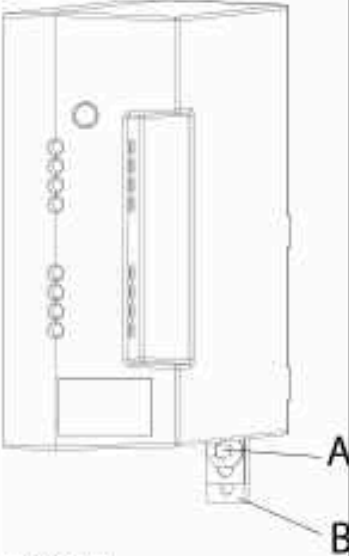
4 Repair

4.26.2 Replacement of customer I/O power supply

Continued

Refitting

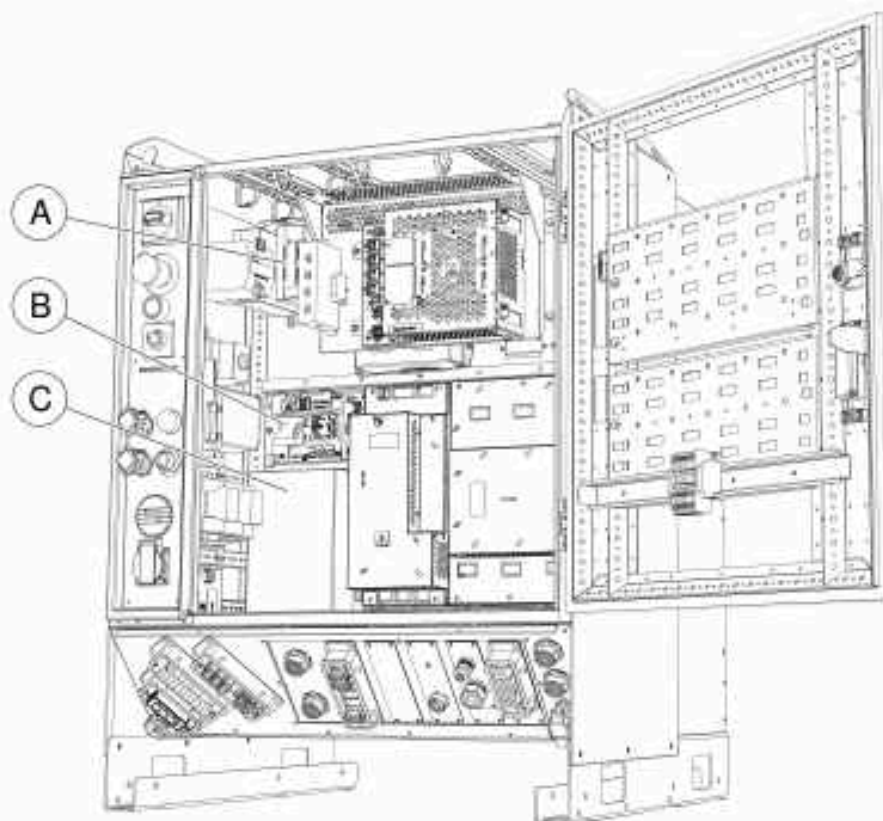
The procedure below details how to refit the customer I/O power supply.

	Action	Note/Illustration
1	 DANGER Before doing any work inside the cabinet, disconnect the mains power. For more information, see Electrical safety on page 38 .	
2	Refit the new power supply unit on the DIN-rail.	
3	Fasten the DIN-lock fixing screw.	 xx070000124 • A: DIN-lock fixing screw • B: DIN-lock lever
4	Refit all wires in the screw terminals.	
5	Fasten the screw terminal screws with correct torque.	
6	Refit the Flange disconnect unit (option).	
7	Perform the function tests in section Function tests on page 215 to verify that the safety features work properly.	

4.26.3 Replacement of system power supply

Location

The illustration below shows the location of the system power supply, DSQC 661, in the controller.



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A	Customer I/O power supply
B	Power distribution unit
C	System power supply

Required equipment

Equipment	Article number	Note
System power supply	3HAC026253-001	DSQC 661
Standard toolkit		The contents are defined in section Standard toolkit.
Other tools and procedures may be required. See references to these procedures in the step-by-step instructions below.		
Circuit diagram	See Circuit diagrams on page 351 .	

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4 Repair

4.26.3 Replacement of system power supply

Continued

Removal

The procedure below details how to remove the system power supply.

Action	Note/Illustration
1  DANGER Before doing any work inside the cabinet, disconnect the mains power. For more information, see Electrical safety on page 38 .	
2 Disconnect all connectors from the unit.	
3 Loosen the two lower attachment screws.	 xx0700000125 • A: upper attachment screws • B: lower attachment screws
4 Remove the two upper attachment screws.	
5 Pull the power supply unit outwards and then upwards to release it from the lower screw heads, and remove it.	

Refitting

The procedure below details how to refit the system power supply.

Action	Note/Illustration
1  DANGER Before doing any work inside the cabinet, disconnect the mains power. For more information, see Electrical safety on page 38 .	

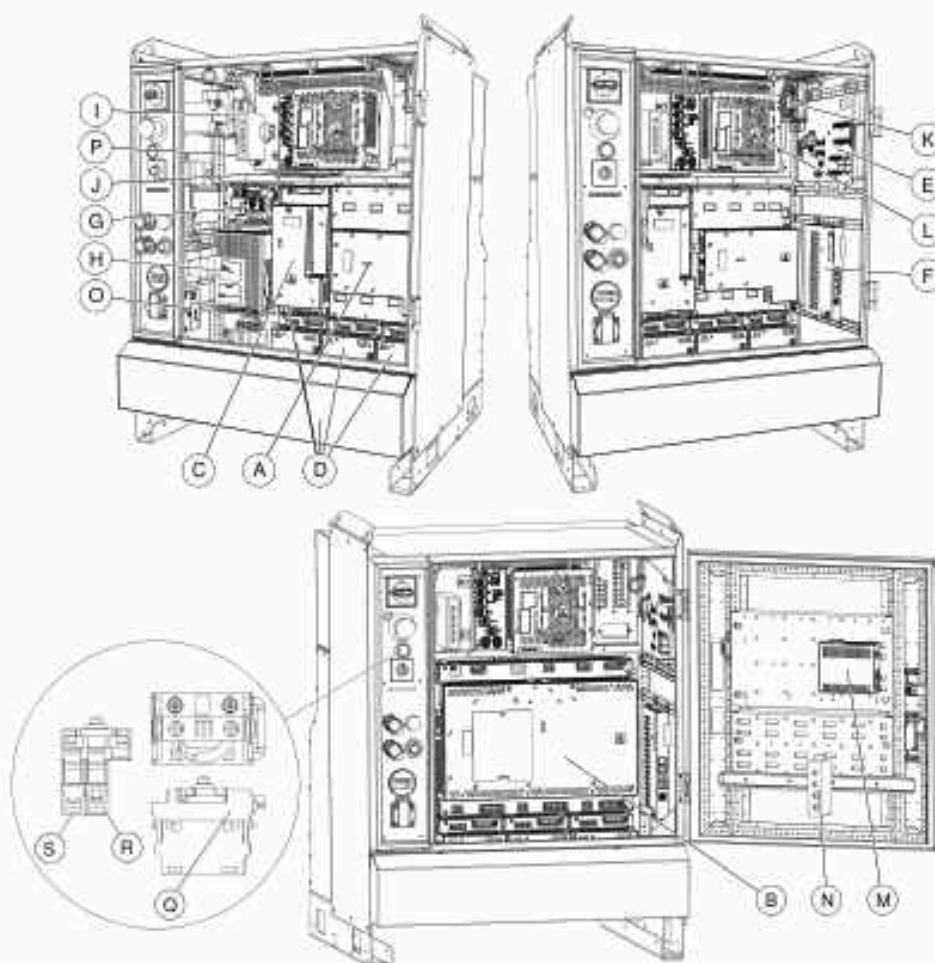
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7 Spare parts

7.1 Controller parts

Controller system parts

The illustration below shows the placement of the controller system parts in the recommended spare part list.



xx2300001289

	Spare part no.	Description	Type
A	3HAC035301-001	Main Drive Unit, MDU-430A (small robots)	DSQC 406
B	3HAC029818-001	Main Drive Unit, MDU-790A (large robots)	DSQC 663
C	3HAC035381-001	Additional Rectifier Unit, ARU-430A (small robots with additional drive unit)	DSQC 417
D	3HAC030923-001	Additional Drive Unit, ADU-790A	DSQC 664
E	3HAC024488-001	Panel board unit	DSQC 643
F	3HAC029157-001	Axis computer	DSQC 668
G	3HAC026254-001	Power distribution unit	DSQC 662

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7 Spare parts

7.1 Controller parts

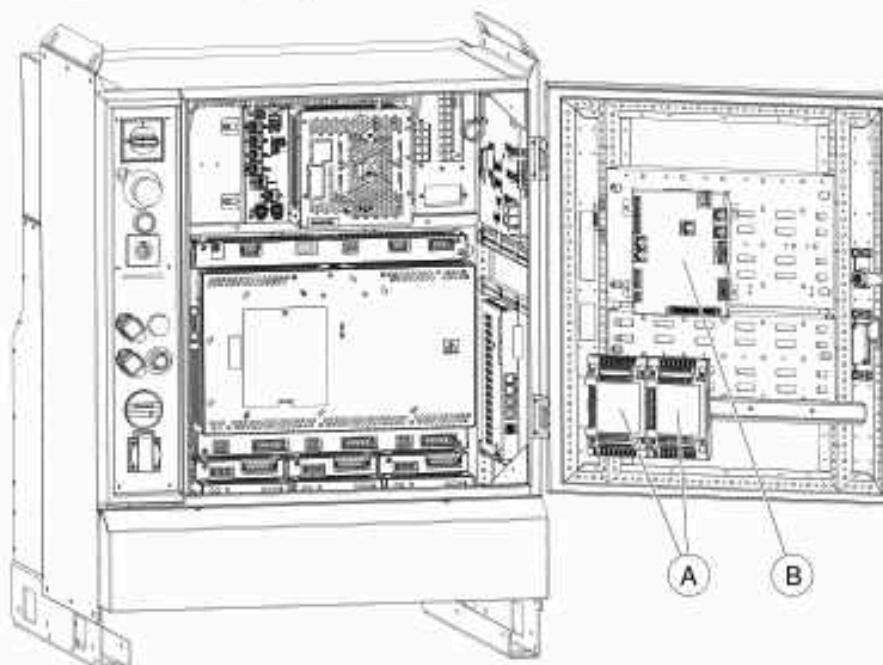
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	Spare part no.	Description	Type
H	3HAC026253-001	System power supply	DSQC 661
I	3HAC14178-1	Customer I/O power supply	DSQC 609
J	3HAC026585-001	Backup energy bank with adapter plate	DSQC 655
J	3HAC025562-001	Backup energy bank	DSQC 655
K	3HAC025466-001	Fan	
L	See Computer unit parts on page 333 .		
M	3HAC043053-001	Remote Service box	DSQC 680
N	3HAC082466-001	Ethernet switch (for IRC5 and PMC)	
O	3HAC13389-2	Contactor interface board	DSQC 611
P	3HAC045976-001	DSQC1007 Eth. switch (MultiMove)	DSQC1007
	3HAC056289-001	Mains line filter	
	3HAC052287-002	Mode selector 3-pos Std	
	3HAC052287-004	Mode selector 3-pos Extended	
	3HAC052287-001	Mode selector 2-pos Std	
	3HAC052287-003	Mode selector 2-pos Extended	
	3HAC022165-002	Mains switch	
	3HAC026222-002	Handle Option 744-1	
	3HAC026222-003	Handle Standard	
	1SFA619550R1051	Emergency pushbutton	
	1SFA611102R1105	Actuator white	
Q	1SFA611605R1100	Holder	
R	1SFA611621R1015	MLBL-01W Modular LED block	
S	1SFA611610R1001	Contact block	
	3HNE 01586-1	Conveyor Tracking Unit	DSQC 377B
	3HNA027579-001	CTM-01 Conveyor Tracking Module	DSQC2000

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DeviceNet I/O System parts

The illustration below shows the placement of the DeviceNet I/O system parts in the recommended spare part list.



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	Spare part no.	Description	Type
A	3HAC025784-001	ADCombi I/O unit	DSQC 651
A	3HAC025917-001	Digital I/O unit	DSQC 652
B	3HNA006144-001	Process Interface Board	

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