ABB DSQC201 YB560103-AB

Installation & Commissioning Guide

ABB DSQC201 YB560103-AB is a robot control module used as a replaceable controller-board assembly in legacy ABB robotic equipment. Selection depends on the complete YB560103-AB marking and the installed cabinet record.

PRODUCT ROLE AND VERIFIED FEATURES

Feature 1

Exact identification pairs DSQC201 with YB560103-AB.

Feature 2

Designed as a replaceable robot-controller board assembly.

Feature 3

Connector locations and installed board settings must be captured before removal.

Feature 4

Functional acceptance follows the specific controller diagnostics assigned to its slot.

VERIFIED DATA SNAPSHOT

Hardware type	Robot control module
Part reference	YB560103-AB
System domain	Legacy ABB robot controller
Commissioning basis	Installed-slot diagnostics and controlled function

SYSTEM RELATIONSHIP

Field device → **Product interface** → **System channel** → **Verified response**

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Pre-installation readiness

READINESS GATE

Identity

Compare the complete marking with the approved work order and installed record.

System match

Confirm the receiving channel, mating components and controlled configuration.

Physical condition

Inspect mounting surfaces, connectors, terminals, cable and support hardware.

Work controls

Apply authorized isolation, bypass, access and restoration procedures.

TECHNICAL PROFILE FOR THE WORK

Hardware type

Robot control module

Part reference

YB560103-AB

System domain

Legacy ABB robot controller

Commissioning basis

Installed-slot diagnostics and controlled function

IMPORTANT NOTICE

Resolve every unmatched interface, configuration or receiving-system condition before removal or installation.

SOURCE AND WORK CONTROLS

Manufacturer source	Cross-checked exact-item records consistently pair DSQC201 with YB560103-AB as an ABB robot-controller module.
Evidence boundary	Technical statements are limited to the identified product or applicable manufacturer family.
Selection control	Use the complete ordering string and verify the installed system before purchase or installation.

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Installation sequence

CONTROLLED WORK STEPS

01	Confirm the complete product marking and the recorded controller position before removal.
02	Save the controller configuration and maintenance record required by the site procedure.
03	Label every connector and photograph its orientation before disconnection.
04	Isolate controller power and apply electrostatic-discharge controls before handling the board.
05	Inspect the slot, backplane, connector contacts and retention hardware before installation.
06	Restore only the documented cable routes, board settings and mechanical supports.
07	Check controller diagnostics and board indications during controlled startup.
08	Validate the affected robot function and interlocks before enabling automatic operation.

CONNECTION RECORD

As found	Photograph and label every connection and installed orientation before removal.
Mechanical	Record mounting position, support, clearance and connector engagement.
Electrical	Record polarity, common, shield, channel assignment and cable route.
Configuration	Preserve approved settings, scaling, alarm logic and acceptance limits.
As left	Record the final physical condition and any controlled deviation.

Field device → **Product interface** → **System channel** → **Verified response**

WORK HOLD POINTS

Before removal	Identity, position, wiring, orientation and controlled settings recorded.
Before connection	Mating interfaces, condition and routing reviewed.
Before power-up	Mechanical work, wiring, shielding and configuration independently checked.
Before release	Static value, dynamic response and protection behavior accepted.

Commissioning and functional proof

COMMISSIONING SEQUENCE

Initial state

Observe status at power-up and check for unexpected fault or alarm indication.

Static value

Verify the expected bias, gap, loop, contact or channel value for the application.

Dynamic response

Apply the approved machine or test stimulus and confirm response and scaling.

Protection path

Verify the configured alarm, relay, data or receiving-system behavior.

APPLICATION-SPECIFIC EVIDENCE

Legacy robot maintenance

Replace the documented DSQC201 board position without changing adjacent controller hardware.

Cabinet recovery

Restore the recorded connector and slot arrangement after board service.

Control-system refurbishment

Inspect the module position and backplane during planned maintenance.

Controlled restart

Confirm the slot diagnostics and affected robot function before production.

ACCEPTANCE RECORD

Identity	Complete marking and final installed position recorded.
Physical inspection	Mounting, connectors, terminals and routing checked.
Channel status	Expected status and configured measurement confirmed.
Functional test	Required output or protection response demonstrated.
Restoration	Bypasses removed and operating state approved.

COMMISSIONING QUESTIONS

How is ABB DSQC201 YB560103-AB identified for replacement?	Use the complete DSQC201 and YB560103-AB marking together with the installed slot record.
What type of assembly is ABB DSQC201 YB560103-AB?	It is a replaceable robot control module for legacy ABB controller hardware.

Release record and technical references

CLOSEOUT QUESTIONS

What cabinet information should be preserved before removal?	Preserve the slot, connector orientation, cable labels and any visible board-setting positions.
Why should adjacent modules be left unchanged during DSQC201 service?	The work should isolate the recorded DSQC201 position and avoid creating unrelated controller changes.
What handling method applies to ABB DSQC201 YB560103-AB?	Use the site isolation procedure and ESD-safe handling for the exposed electronic assembly.
How should the module be checked at power-up?	Observe the controller startup sequence and the diagnostics assigned to the installed slot.
What completes functional testing of ABB DSQC201 YB560103-AB?	Verify the affected controller function, interlocks and robot response under controlled conditions.
What prevents substitution with another DSQC201 revision?	The full YB560103-AB suffix and the installed-system record must match before selection.

RELATED MODELS FOR INSTALLATION PLANNING

ABB 3HAC032140-004	Installation-planning reference. Review the complete ordering string before selection.
ABB 3HAC061275-001	Installation-planning reference. Compare the required interface and system position.
ABB DSQC639 3HAC025097-001	Installation-planning reference. Confirm the execution independently for the intended task.

MANUFACTURER SOURCE AND FINAL CONTROL

Manufacturer source	Cross-checked exact-item records consistently pair DSQC201 with YB560103-AB as an ABB robot-controller module.
Evidence boundary	Technical statements are limited to the identified product or applicable manufacturer family.
Selection control	Use the complete ordering string and verify the installed system before purchase or installation.

IMPORTANT NOTICE Release the equipment only after the responsible site authority accepts the recorded result.

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