ABB DSQC236T

Installation & Commissioning Guide

ABB DSQC236T is a drive unit from the DSQC236 robot-controller drive family. It is associated with the YB560103-CE execution and must be selected against the complete installed nameplate.

PRODUCT ROLE AND VERIFIED FEATURES

Feature 1

Belongs to the ABB DSQC236 drive-unit family.

Feature 2

Cross-checked records associate DSQC236T with reference YB560103-CE.

Feature 3

Power, motor and control connections require exact as-found documentation.

Feature 4

Commissioning must keep motion inhibited until drive diagnostics are stable.

VERIFIED DATA SNAPSHOT

Hardware type	Robot drive unit
Associated reference	YB560103-CE
Controller domain	Legacy ABB robot drive cabinet
Commissioning focus	Drive diagnostics and controlled axis response

SYSTEM RELATIONSHIP

Controller command → **DC1 drive unit** → **Drive power path** → **Robot axis**

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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	**Associated reference**
Robot drive unit	YB560103-CE
Controller domain	**Commissioning focus**
Legacy ABB robot drive cabinet	Drive diagnostics and controlled axis response

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 identify DSQC236T as a drive unit and associate it with YB560103-CE.
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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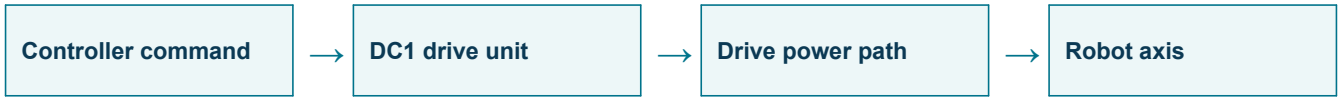
Installation sequence

CONTROLLED WORK STEPS

01	Read the complete DSQC236T nameplate and associated execution before selecting a replacement.
02	Apply lockout and verify stored drive energy has discharged under the approved procedure.
03	Label power, motor, feedback and control connectors before removal.
04	Inspect terminals, backplane contacts, cooling surfaces and mounting hardware.
05	Do not interchange another DSQC236 variant without a documented compatibility decision.
06	Restore protective connections and conductor routing exactly as recorded.
07	Keep motion inhibited while checking drive and controller diagnostics.
08	Test the affected axis at controlled speed before 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.



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

Axis-drive maintenance

Restore the recorded drive-unit position after exact-identity service.

Robot cabinet refurbishment

Inspect the drive connections, cooling path and retention during overhaul.

Drive-path troubleshooting

Separate motor-cable, connector and drive-unit conditions during fault analysis.

Motion recommissioning

Test the affected axis under controlled speed and load limits.

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

What product type is ABB DSQC236T?	It is a drive unit in the ABB DSQC236 robot-controller drive family.
Which associated reference is repeatedly listed for DSQC236T?	Cross-checked exact-item records associate the T execution with YB560103-CE.

Release record and technical references

CLOSEOUT QUESTIONS

Why must another DSQC236 variant not be substituted directly?	The variant identifies a distinct execution, so compatibility requires the installed nameplate and controller record.
What connections should be labeled before DSQC236T removal?	Label the power, motor, feedback, control and protective connections at their original positions.
What stored-energy control applies to the drive unit?	Follow the controller isolation procedure and verify the drive energy has discharged before contact.
Which mechanical conditions should be checked?	Inspect mounting, connector retention and the cabinet cooling path before installation.
How is ABB DSQC236T first energized after replacement?	Power it under controlled conditions with motion inhibited while monitoring controller and drive diagnostics.
What completes DSQC236T commissioning?	A controlled axis test, interlock verification and accepted diagnostic state are required before automatic operation.

RELATED MODELS FOR INSTALLATION PLANNING

ABB 3HAC029105-002	Installation-planning reference. Review the complete ordering string before selection.
ABB 3HAC025466-001	Installation-planning reference. Compare the required interface and system position.
ABB 3HAC058040-001	Installation-planning reference. Confirm the execution independently for the intended task.

MANUFACTURER SOURCE AND FINAL CONTROL

Manufacturer source	Cross-checked exact-item records identify DSQC236T as a drive unit and associate it with YB560103-CE.
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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