

NGDR-07C

Gate Driver Board

CONTROLLED ENGINEERING COPY

ABB's public ACS 600 manual documents the NGDR family role but does not decode the 07C suffix; verify the complete board marking and controlled drive drawing before replacement.

INSTALLATION IDENTITY	REQUIRED VALUE
Complete model	NGDR-07C
Manufacturer part	NGDR-07C
Hardware type	NGDR-07C
System family	ABB ACS 600 phase-module drive hardware



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01 PRE-INSTALLATION PLAN

- 1

Verify the complete NGDR-07C marking and its assigned ABB ACS 600 phase-module drive hardware position before work.
- 2

Place the connected igt gate-pulse amplification process in the approved maintenance state.
- 3

Isolate every documented power, signal and stored-energy source before disconnecting conductors or cables.
- 4

Record the installed slot, connectors, conductors, addressing, firmware and software configuration before removal.
- 5

Use ESD-safe handling and protect keyed electrical, fiber or sensor interfaces as applicable.

MATCHED HARDWARE

- ACS 600 phase module
- NINT and NXPP control boards
- documented power plate
- controlled gate and feedback harnesses

INSTALLATION CONTROL RECORD

CONTROL ITEM	REQUIRED RECORD
Identity	NGDR-07C / NGDR-07C recorded
Physical interface	ACS 600 phase module
Companion check	NINT and NXPP control boards
Functional proof	Belongs to the ACS 600 NGDR board family
Application test	IGBT gate-pulse amplification

02 WIRING & INTERFACE CHECKS

CHECK ITEM	REQUIRED VALUE
Supplied identity	NGDR-07C
Board family	NGDR gate driver
Drive family	ACS 600 MultiDrive
Documented frame use	R4i and larger phase modules
Primary function	Amplifies IGBT control pulses
Power-plate relationship	Two NGDR boards control one power plate in documented R4i-R7i architecture
Controller relationship	Operates in the NINT / NXPP / NGDR control path
Exact suffix boundary	Verify 07C from board marking and controlled spare-parts record

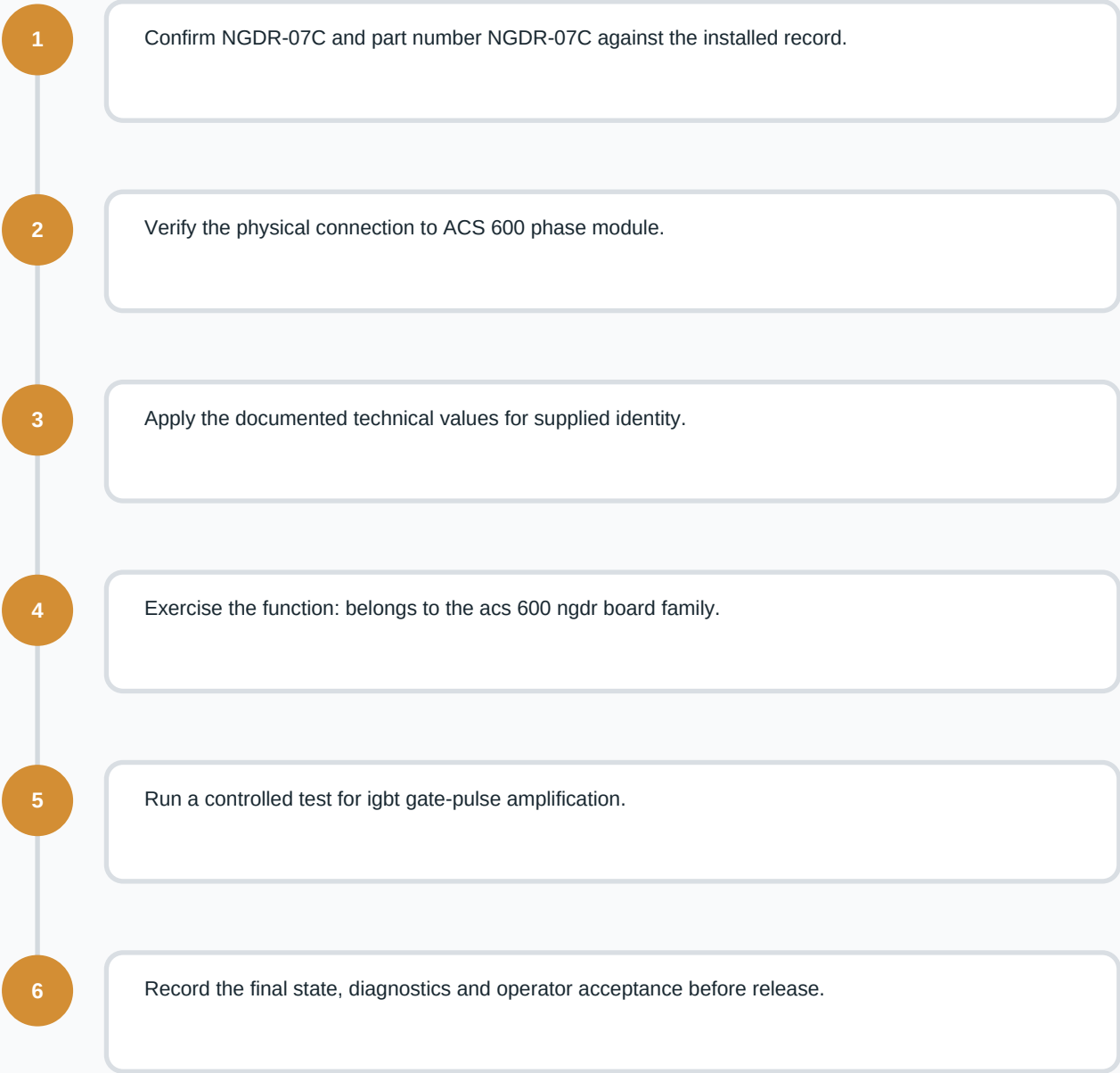
SYSTEM CONNECTION RECORD

CONNECTION ITEM	DOCUMENTED ASSIGNMENT
Installed host / carrier	ACS 600 phase module
Companion hardware	NINT and NXPP control boards
Field connection	documented power plate
Primary system function	Belongs to the ACS 600 NGDR board family
Controlled acceptance duty	IGBT gate-pulse amplification

FIELD NOTE

ABB's public ACS 600 manual documents the NGDR family role but does not decode the 07C suffix; verify the complete board marking and controlled drive drawing before replacement.

03 COMMISSIONING WORKFLOW



COMMISSIONING ACCEPTANCE EVIDENCE

EVIDENCE ITEM	ACCEPTANCE CONDITION
Identity	NGDR-07C / NGDR-07C recorded
Physical interface	ACS 600 phase module
Companion check	NINT and NXPP control boards
Functional proof	Belongs to the ACS 600 NGDR board family
Application test	IGBT gate-pulse amplification

04 RETURN-TO-SERVICE RECORD

- ☐
- Confirm the installed ACS 600 phase module and NINT and NXPP control boards against the approved project.
- ☐
- Restore power in a controlled sequence and review device, network and host diagnostics.
- ☐
- Prove the intended phase-module power control function and retain the final acceptance result.
- ☐
- Confirm the intended process response before normal operation.

VERIFICATION RECORD

PRODUCT IDENTITY	NGDR-07C
INSTALLED POSITION	Documented ABB ACS 600 phase-module drive hardware position
VERIFICATION METHOD	Controlled inspection and functional test
RELEASE RECORD	Final diagnostic state retained before service

RELATED PRODUCTS ON APTER POWER

MODEL	SYSTEM ROLE	APTER POWER PAGE
Emerson PR6423 002 030	Related industrial automation product	View Emerson PR6423 002 030 page
Emerson CON021	Related industrial automation product	View Emerson CON021 page
Allen-Bradley 22B D6P0N104	Related industrial automation product	View Allen-Bradley 22B D6P0N104 page
Bently Nevada 3500 92 04 01 01	Related industrial automation product	View Bently Nevada 3500 92 04 01 01 page
Bently Nevada 3500 33 SIL2 03 01	Related industrial automation product	View Bently Nevada 3500 33 SIL2 03 01 page
Bently Nevada 3500 22M 01 01 01	Related industrial automation product	View Bently Nevada 3500 22M 01 01 01 page
Bently Nevada 3500 15 05 05 01	Related industrial automation product	View Bently Nevada 3500 15 05 05 01 page
Bently Nevada 3500 05 01 02 01 00 01	Related industrial automation product	View Bently Nevada 3500 05 01 02 01 00 01 page

SOURCE IDENTIFIERS

ABB ACS 600 MultiDrive Hardware Manual
ACS 600 MultiDrive Hardware Manual - NGDR gate driver section

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