

X20BC8084

Expandable POWERLINK bus controller

CONTROLLED ENGINEERING COPY

Record the node number, cable port order and X2X configuration before replacement; verify both link directions and I/O diagnostics after startup.

INSTALLATION IDENTITY	REQUIRED VALUE
Complete model	X20BC8084
Manufacturer part	X20BC8084
Hardware type	0x2674
System family	B&R X20 distributed I/O



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01 PRE-INSTALLATION PLAN

- 1

Verify the full X20BC8084 marking and its assigned B&R X20 distributed I/O position before work.
- 2

Place the connected machine or process in the approved maintenance state.
- 3

Isolate the applicable supply and powerlink network frames and x20 i/o process data field energy before disconnecting conductors.
- 4

Record connector, conductor, address and software identities before removal.
- 5

Use ESD controls and protect keyed interfaces, exposed contacts and electronic assemblies.

MATCHED HARDWARE

- X20 bus base and I/O slices
- POWERLINK cable and switch
- 24 V DC station supply
- Automation Studio hardware configuration

INSTALLATION CONTROL RECORD

CONTROL ITEM	REQUIRED RECORD
Identity	X20BC8084 / X20BC8084 recorded
Physical interface	X20 bus base and I/O slices
Companion check	POWERLINK cable and switch
Functional proof	Operates as a POWERLINK controlled node
Application test	Remote X20 I/O station

02 WIRING & INTERFACE CHECKS

CHECK ITEM	REQUIRED VALUE
B&R ID	0x2674
POWERLINK role	V1/V2 controlled node; Type 2
Ports	2 shielded RJ45
Physical layer	100BASE-TX
Data rate	100 Mbit/s
Maximum segment	100 m
Minimum fieldbus/X2X cycle	200 us
Bus power consumption	2 W

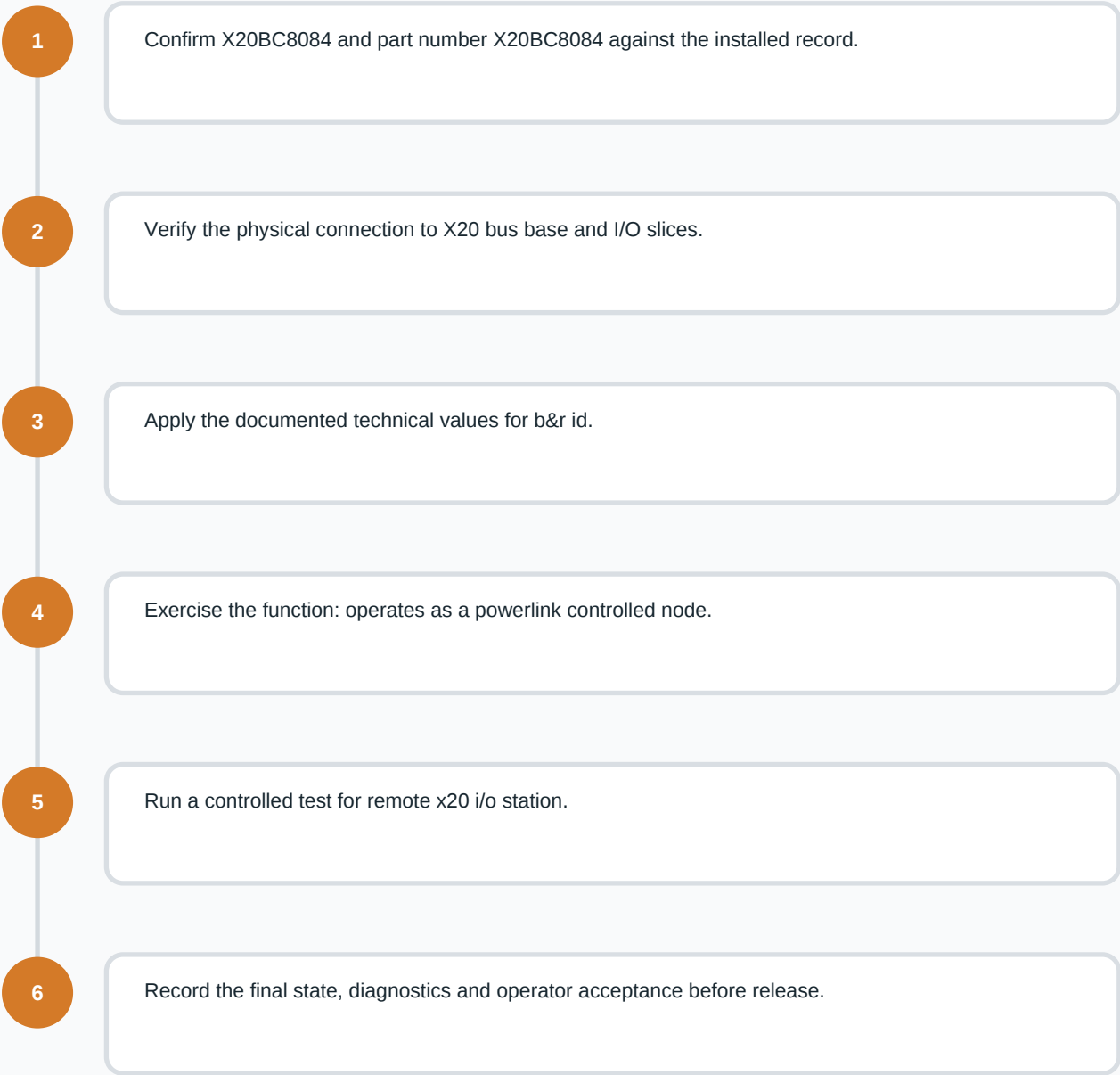
SYSTEM CONNECTION RECORD

CONNECTION ITEM	DOCUMENTED ASSIGNMENT
Installed host / carrier	X20 bus base and I/O slices
Companion hardware	POWERLINK cable and switch
Field connection	24 V DC station supply
Primary system function	Operates as a POWERLINK controlled node
Controlled acceptance duty	Remote X20 I/O station

FIELD NOTE

Record the node number, cable port order and X2X configuration before replacement; verify both link directions and I/O diagnostics after startup.

03 COMMISSIONING WORKFLOW



COMMISSIONING ACCEPTANCE EVIDENCE

EVIDENCE ITEM	ACCEPTANCE CONDITION
Identity	X20BC8084 / X20BC8084 recorded
Physical interface	X20 bus base and I/O slices
Companion check	POWERLINK cable and switch
Functional proof	Operates as a POWERLINK controlled node
Application test	Remote X20 I/O station

04 RETURN-TO-SERVICE RECORD

- ☐
- Confirm the installed X20 bus base and I/O slices and POWERLINK cable and switch against the approved project.
- ☐
- Restore power in a controlled sequence and review device, network and host diagnostics.
- ☐
- Prove the intended remote x20 i/o station function and retain the final test result.
- ☐
- Confirm the intended process response before normal operation.

VERIFICATION RECORD

PRODUCT IDENTITY	X20BC8084
INSTALLED POSITION	Documented B&R X20 distributed I/O 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
330881-28-05-050-03-02	Related industrial automation product	View 330881-28-05-050-03-02 page
21504-00-48-10-02	Related industrial automation product	View 21504-00-48-10-02 page
3HAC043569-004	Related industrial automation product	View 3HAC043569-004 page
129525-0050-02	Related industrial automation product	View 129525-0050-02 page
102044-00-32-10-02	Related industrial automation product	View 102044-00-32-10-02 page
21000-11-05-00-085-03-02	Related industrial automation product	View 21000-11-05-00-085-03-02 page
21000-15-10-00-166-03-02	Related industrial automation product	View 21000-15-10-00-166-03-02 page
21000-28-05-00-070-01-02	Related industrial automation product	View 21000-28-05-00-070-01-02 page

SOURCE IDENTIFIERS

B&R official product data sheet

B&R product data

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