B&R 3IF661.9

01 Host compatibility checks

1 Identify the System 2005 host

Check whether the interface is installed in a CP260, IF260 or IF060. Preserve the host configuration and occupied slot before removal; this insert is not a standalone PLC or an unrestricted replacement for other serial interfaces.

2 Preserve the DP slave identity

Record the station number selected by the two BCD switches and the master's assigned slave configuration. A replacement with a different address may be electrically connected but invisible to the intended master assignment.

Host compatibility	CP260 / IF260 / IF060
Bus role	DP slave
Address setting	Two BCD switches

02 RS485 contacts checks

1 Restore RS485 data polarity

Reconnect the data pair to the designated D-sub contacts. Pin 3 carries DATA and pin 8 its complementary signal; reversing the pair can prevent communication while leaving the physical connector apparently correct.

2 Keep the shield connection intact

Maintain the shield connection through the connector housing and prescribed grounding arrangement. Do not substitute the signal reference for the cable shield or leave an unshielded section across a high-noise cabinet boundary.

RS485 contacts	DATA pin 3; complementary data pin 8
Connector	Female 9-pin D-sub
Isolation	Fieldbus electrically isolated

03 Segment example checks

1 Match segment length to baud rate

Compare the actual segment length with its operating baud rate. The limits are less than 100 m at 12 Mbit/s, 200 m at 1.5 Mbit/s, 400 m at 500 kbit/s and 1000 m at 187.5 kbit/s.

2 Inspect the terminating T-connector

Confirm which physical nodes are at the two ends of the segment. Restore the external T-connector and terminating resistor arrangement; avoid enabling a termination in the middle of an otherwise continuous bus.

Segment example	Less than 100 m at 12 Mbit/s
Termination	External T-connector
Bus end check	Both physical ends

04 Host power checks

1 Distinguish activity from valid data

Observe RXD and TXD after controlled energization, then check the master's slave state and the application values. A flashing activity indicator is useful evidence but does not by itself confirm correct parameterization or process-data mapping.

2 Check the five-volt host budget

The insert uses a 5 V host supply and consumes up to 2 W. Confirm that the host slot and power arrangement remain appropriate before treating a communication dropout as a cable-only problem.

Host power	5 V DC, up to 2 W
Activity indicators	RXD and TXD
Acceptance	Valid mapped data

3IF661.9

05 Commissioning record checks

1 Exercise the mapped process data

Use a controlled test of known input and output states through the master configuration. Compare the values and addressing with the retained project, and keep affected machine outputs in a safe maintenance state until mapping is verified.

2 Retain the network service record

Record the host, slave address, baud rate, segment length and termination state. These details make future replacement reproducible and help distinguish a recurrent network fault from a problem in the replacement interface.

Technical basis: B&R System 2005 User Manual V4.0.

Related product navigation

B&R 8BAC0133.000-1

B&R 8BVI0014HWD0.000-1

These are related references, not confirmed substitutes or an automatically approved assembly.