

CI853K01 field workflow

A model-specific engineering sequence for the ABB AC 800M serial interface package

01 / Establish exact identity

Match CI853K01 and article 3BSE018103R1 with the CI853 module and TP853 baseplate in the installed controller record.

02 / Preserve the application

Record both port assignments, protocol selections, baud settings, serial cable connections and current controller diagnostics.

03 / Maintain the process state

Use the approved controller and connected-device maintenance procedure before disturbing the two non-isolated RS-232C circuits.

04 / Prove the return to service

Verify COM1 and COM2 message exchange, LED indications and the controlled process response after restoration.

Before module removal

Four product-specific prerequisites and their acceptance conditions

Package identity	CI853K01 and 3BSE018103R1 match the maintenance record.
Host position	The AC 800M processor and CEX-Bus interface position are identified.
COM1 assignment	Connected device, protocol, baud selection and cable are recorded.
COM2 assignment	The second serial connection is recorded separately from COM1.
Electrical boundary	Both RS-232C links are treated as non-isolated circuits.
Configuration	Application, licensing and protocol-specific limits are reviewed.
Diagnostics	Current red/green/yellow LED state and controller messages are recorded.
Maintenance state	The connected process and serial devices are under approved control.

Why the exact kit identity matters

CI853K01 is the orderable package containing both CI853 and TP853. A module-only or baseplate-only delivery cannot be assumed to restore the documented two-port assembly.

Reinstallation sequence

Restore the documented controller and serial topology

1. Check the package

Inspect CI853 and TP853 for the correct identity, connection hardware and physical condition.

2. Refit the assembly

Seat the interface/baseplate in the recorded CEX-Bus position using the approved controller procedure.

3. Restore the port wiring

Reconnect both TP853 RJ45 serial links to their recorded COM1 and COM2 devices.

4. Restore configuration

Load the intended protocol and selectable speed for each port; do not copy another interface's settings.

5. Restore power safely

Follow the plant sequence; CI853 draws power from the processor through the CEX-Bus.

Keep channel identities separate

A passing COM1 test is not proof of COM2. The two serial ports may use different protocols and must each pass its own controlled communication check.

Controlled acceptance

Verify each port and the controller as a connected system

CEX-Bus recognition	CI853 is recognized by the configured AC 800M controller without unexpected module error.
COM1 protocol	The intended serial device exchanges messages at the configured speed and protocol.
COM2 protocol	The second channel passes its own message test; it need not match COM1 protocol.
Status LEDs	Red error, green run and yellow traffic indicators agree with controlled traffic and diagnostics.
Isolation design	The non-isolated RS-232C grounding and cable arrangement match the approved design.
Post-service record	Installed identity, settings, test result and maintenance approval are retained.

Hot swap is supported by the CI853 interface, but it never replaces the approved system-specific change procedure or channel-by-channel acceptance test.

Paired-system navigation

Related ABB controller and communication pages, separate from manufacturer evidence

RELATED ABB CONTROL-SYSTEM PAGES

01 ABB BC810K01-3BSE031154R1

[View ABB BC810K01-3BSE031154R1 page](#)

02 ABB TB811 3BSE008568R1

[View ABB TB811 3BSE008568R1 page](#)

03 ABB CI857K01 3BSE018144R1

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04 ABB PM866K01 3BSE050198R1

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07 ABB CI840A 3BSE041882R1

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08 ABB CI801 3BSE022366R1

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MANUFACTURER SOURCE RECORD

ABB System 800xA Product Catalog, 3BSE091397 en S, p. 51; ABB AC 800M Controller Hardware Product Guide, 3BSE036352-610 A, sections 4.7.1 and 6.6.

APTER POWER SALES TEAM

WHATSAPP / PHONE +86 180 3023 5313

EMAIL sales13@apterpower.com

WEBSITE www.apterpower.com



CI853K01