General Electric HE693PBM101F

INSTALLATION & COMMISSIONING GUIDE / EXACT-MODEL ENGINEERING FILE

General Electric HE693PBM101F is a series 90-30 profibus dp master module for the GE Fanuc Series 90-30 PLC platform. The complete marking and installed hardware arrangement must be matched before replacement.

01 Job scope and safe-work boundary

Offered assembly	General Electric HE693PBM101F
Installed system	GE Fanuc Series 90-30 PLC platform
Work boundary	Save slave addresses, data areas, GSD definitions and the VersaPro project before removal.
As-found record	Send the complete HE693PBM101F marking, installed-system context and required quantity.

Readiness controls

Verify the F revision
Compare the complete HE693PBM101F label and installed hardware before replacement.

Archive the network project
Save slave addresses, data areas, GSD definitions and the VersaPro project before removal.

Isolate backplane power
Follow the Series 90-30 service procedure before removing or inserting the module.

Inspect PROFIBUS wiring
Check the 9-pin connector, type-A cable, shield bond and both powered terminations.

Related product references

- General Electric IS220PPROH1A
- General Electric DS200TBCAG1AAB
- General Electric 531X123PCHACG1
- General Electric 531X303MCPBCG1
- General Electric IS230SNTCH4A
- General Electric IS230SNAIH2A
- General Electric IS230TNTRH1C
- General Electric IC695PNC001

Engineering record prompts

Connector record	Photograph every used connector, cable label, keying feature and shield termination.
Host record	Identify the carrier, rack, drive, chassis or operator station that owns the installed position.
Configuration record	Archive the applicable project, address, parameter, firmware or hardware-setting evidence.

02 Replacement sequence

01 Record	Send the complete HE693PBM101F marking, installed-system context and required quantity.
02 Verify	Compare every token in HE693PBM101F with the installed label and the applicable manufacturer document.
03 Isolate	Save slave addresses, data areas, GSD definitions and the VersaPro project before removal.
04 Compare	Apply the official baud-rate distance limits and use repeaters where the approved topology requires them.
05 Reconnect	Follow the Series 90-30 service procedure before removing or inserting the module.
06 Configure	Check the 9-pin connector, type-A cable, shield bond and both powered terminations.
07 Prove	Verify slave diagnostics, input/output mapping and OK/RUN/POWER indications after commissioning.
08 Handover	Retain the HE693PBM101F nameplate, F revision, network map, configuration archive, diagnostics and acceptance result.

Stop conditions

Identity mismatch
Stop if any complete-model token or revision marker differs.

Interface mismatch
Stop if keying, connector count or installed position does not match.

Missing baseline
Stop if the installed configuration or cable map cannot be recovered.

Related product references

- General Electric DS200TBCAG1AAB
- General Electric 531X123PCHACG1
- General Electric 531X303MCPBCG1
- General Electric IS230SNTCH4A
- General Electric IS230SNAIH2A
- General Electric IS230TNTRH1C
- General Electric IC695PNC001
- General Electric IS220PPROH1A

Engineering record prompts

Host record	Identify the carrier, rack, drive, chassis or operator station that owns the installed position.
Configuration record	Archive the applicable project, address, parameter, firmware or hardware-setting evidence.
Supply-scope record	List terminal blocks, carriers, plugs, cables and accessories separately in the quotation.
Baseline result	Record initial indications, diagnostics and the controlled-system condition before work.

03 Interface restoration and application fit

Complete identity	Use HE693PBM101F as one complete reference in the quotation, service record and acceptance file.
Installed position	Record the exact host position and functional ownership within the GE Fanuc Series 90-30 PLC platform.
Physical execution	Compare artwork, connectors, keying, terminal hardware and orientation with the removed assembly.
Configuration boundary	Preserve the applicable project, address, firmware or hardware-setting record before removal.
Acceptance evidence	Retain initial and as-left diagnostics plus the controlled functional-test result.
Unstated values	Do not assign electrical or compatibility values that are not established by the exact-model evidence.

Application acceptance

PROFIBUS DP master
Control distributed I/O and field devices over the documented master-slave network.

Series 90-30 integration
Use with CPU350-or-higher hardware and the approved PLC firmware and VersaPro project.

Network expansion
Apply repeaters and segment limits when the station count or cable length exceeds one segment.

Legacy-system maintenance
Retain the F revision, slave map and network diagnostics with the spare or replacement record.

Applicable technical data

Base design	HE693PBM101 PROFIBUS Master
Suffix boundary	F treated as a hardware/firmware revision; verify the actual nameplate
Network role	PROFIBUS DP master only; FMS and PA are not supported
Base-model processor speed	24 MHz
Maximum slaves	64
Maximum devices per segment without repeaters	32

Related product references

General Electric 531X303MCPBCG1

General Electric IS230SNTCH4A

General Electric IS230SNAIH2A

General Electric IS230TNTRH1C

General Electric IC695PNC001

General Electric IS220PPROH1A

04 Commissioning and fault isolation

Identity	Confirm the complete marking, artwork and installed position.
Interface map	Restore connectors and cables only from the approved as-found record.
Controlled power-up	Observe host and unit indications before enabling the process function.
Functional proof	Test the intended series 90-30 profibus dp master module role and retain diagnostics with the handover.

Diagnostic questions

How should the field wiring for HE693PBM101F be verified?	Check type-A PROFIBUS cable, termination at both powered ends, shield bonding and segment-length limits before reconnecting HE693PBM101F.
What should be checked before energizing HE693PBM101F?	Confirm a CPU350-or-higher host, firmware 8.0 or later, 5 VDC backplane power and the approved PROFIBUS topology for HE693PBM101F.
How can a suspected HE693PBM101F fault be separated from an external fault?	Check backplane power, OK/RUN/POWER LEDs, termination, cable continuity and slave diagnostics before replacing HE693PBM101F.
What proves that HE693PBM101F is operating correctly after installation?	A controlled network test must show the expected slaves, mapped data and stable OK/RUN indications for HE693PBM101F.

Result record matrix

Baseline	Record the pre-test state and host position.
Stimulus	Apply only the approved command, signal or diagnostic action.
Observation	Capture unit indication, host diagnostic and field response together.
Disposition	Accept, correct and retest, or record the exception with its owner.

Related product references

- General Electric IC695PNC001
- General Electric IS220PPROH1A
- General Electric DS200TBCAG1AAB
- General Electric 531X123PCHACG1
- General Electric 531X303MCPBCG1
- General Electric IS230SNTCH4A
- General Electric IS230SNAIH2A
- General Electric IS230TNTRH1C

Engineering record prompts

Nameplate record	Capture the complete marking, visible revision and installed position before removal.
Connector record	Photograph every used connector, cable label, keying feature and shield termination.

05 Handover and service record

Identity evidence
Offered and removed markings plus installed position.

Configuration evidence
As-found and as-left project, address or setting record.

Test evidence
Diagnostics, controlled functional result and open exceptions.

Supply evidence
Included items and separately supplied accessories confirmed in the quotation.

Close-out checks

Identity closed	The as-left record names HE693PBM101F without a shortened family reference.
Interfaces closed	Every restored connection is traceable to the pre-work record.
Function closed	The intended series 90-30 profibus dp master module role has a recorded controlled-test result.
Exceptions closed	Outstanding issues have an owner and documented action.

Ordering checks

Match the complete marking	Compare every token in HE693PBM101F with the installed label and the applicable manufacturer document.
Verify the assembly boundary	Confirm the terminal board, I/O pack, connector, carrier or matched-system components that belong with HE693PBM101F.

Related product references

- General Electric IS230SNTCH4A
- General Electric IS230SNAIH2A
- General Electric IS230TNTRH1C
- General Electric IC695PNC001
- General Electric IS220PPROH1A
- General Electric DS200TBCAG1AAB
- General Electric 531X123PCHACG1
- General Electric 531X303MCPBCG1

Engineering record prompts

Baseline result	Record initial indications, diagnostics and the controlled-system condition before work.
Identity decision	Approve only the complete order code and observed execution; do not shorten the family name.
Interface decision	Confirm connector count, orientation, pin ownership and field wiring against the as-found map.

Discuss the complete HE693PBM101F marking with Apter Power.

sales13@apterpower.com | +86 18030235313

Scan the WhatsApp QR to share nameplate and installed-system evidence.