INSTALLATION PREPARATION & VERIFICATION

ABB DSMB178 IN5730-1001-Y

Preparation for a controlled replacement

This guide supports the technical review of ABB DSMB178 IN5730-1001-Y before installation. It describes preparation and acceptance evidence; the applicable ABB hardware procedure and site work instruction govern the actual work.

Preparation item	Review requirement
Memory role	DSMB 178: PROM module in the cited MasterGate 230/1 assembly.
Documented capacity	1 MB; not a firmware identifier or a CPU RWM specification.
CPU context	DSPC 172/172H, with assembly-specific single and redundant arrangements.
Item identity	Compare the actual board label with the photographed 57360001-MM / PR:01 example.
Required documents	Applicable CPU/central-unit manual, approved parts list, configuration record and controlled work instruction.
Readiness evidence	Approved hardware match, required PROM contents, backup plan and defined return-to-service checks.

Before the maintenance window

Identify the exact controller and CPU assembly, its redundancy arrangement and the role of every memory board involved. Establish which software image the replacement must contain and how that identity will be checked.

Prepared by Apter Power. This is a preparation and verification guide, not an ABB-issued installation or commissioning manual.

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Compatibility and software-content review

Comparison	Required technical evidence
Complete marking	Preserve DSMB178 IN5730-1001-Y on the review record. Separately capture the physical ABB board code and all revision labels.
CPU assembly	Identify DSPC and subassembly references from the installed hardware. Compare them with the actual documentation; do not extend the MasterGate example to all installations.
Memory role	Confirm that the task concerns PROM. RWM boards and their data-retention arrangements must be reviewed separately.
PROM contents	Compare approved software release, PROM labels and configuration identifiers. A 1 MB device is not proof that the correct image is installed.
Redundancy	Confirm whether the system is single or redundant and obtain the applicable hardware arrangement. Do not infer a live replacement method from the presence of redundancy.
Revision differences	Refer connector, component-population or label differences to the responsible engineer before proceeding.

Documented architecture boundary

ABB 3BSE002142R1 section 2.2 distinguishes DSMB 178 PROM from the RWM used in the same CPU context. In its single arrangement, RWM is present on DSPC 172-2; in its redundant arrangement, separate DSMB 175 boards are described.

The source does not establish the meaning of the listing suffix, a general upgrade path, electrical ratings or permissible field programming operations for the offered item.

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Handling and physical inspection

The sequence and isolation method must come from the applicable ABB manual and the site's approved maintenance procedure. The following checks describe evidence to collect, not an independent installation sequence.

Inspection point	Evidence to retain
1. Work-area readiness	Qualified personnel confirm isolation, stored-energy controls and the required electrostatic-discharge precautions before touching hardware.
2. PCB condition	Inspect both sides for visible damage, contamination, overheating or previous repair. Record findings and clear photographs.
3. Connectors and supports	Check for bent or damaged contacts, incorrect alignment and missing mounting hardware. Compare against the approved assembly drawing.
4. Identity and PROM labels	Record board code, revision and readable memory-device labels without removing or altering identification.
5. Adjacent hardware	Confirm that the surrounding CPU and memory components agree with the planned configuration. Do not substitute RWM for PROM.
6. Installation record	Record the final fitted identity and any approved deviation. Follow the manufacturer's procedure for seating, fastening and inspection.

Stop criteria

Resolve an identity mismatch, damaged connector, uncertain PROM image or missing applicable procedure before the equipment is returned to service. Do not improvise pinouts, jumper settings or test voltages.

Keep removed hardware identified and protected so that the system history remains traceable.

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Commissioning and acceptance evidence

Acceptance stage	Review outcome
Before power is restored	Complete the manufacturer-prescribed assembly checks and confirm the authorized configuration record.
CPU startup	Observe the indications and diagnostic information required by the applicable CPU manual. Record the actual state and any fault message.
Software identity	Verify the approved software/configuration identifiers using the documented system method. Capacity alone is not an acceptance result.
Redundant systems	Where applicable, verify the documented partner state and synchronization checks. Use the site-specific acceptance plan; no switchover sequence is prescribed here.
Functional checks	Perform the approved controller and application checks under the site procedure. An industry application name is not a functional acceptance criterion.
Return-to-service record	Record board identity, software/configuration evidence, test results and authorization by the responsible site personnel.

When a fault remains

Capture the exact CPU indications, message text and configuration before changing further hardware. Distinguish a PROM-content mismatch from RWM, communication or CPU faults using the applicable ABB diagnostic instructions.

The MasterGate supplement contains system-specific diagnostics. A message in that system is not automatically a DSMB 178 board failure. Do not use this guide to authorize a reset, memory clear or online replacement.

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Documents to keep with the service record

Reference	Reason for retention
ABB product catalogue	DSMB 178 Memory Board, service entry TES57360001-MM. Used only for base-type identity and MasterPiece central-unit classification; not for service logistics as hardware ratings.
ABB Automation 3BSE002142R1	MasterGate 230/1 supplement to the MasterPiece 200/1 Installation, Commissioning and Service Manual. Sections 1.1-1.2 and 2.2, pp. 3 and 5. Manufacturer-authored copy reviewed; host-page title is inconsistent with the internal document number.
ABB MasterPiece 200 / 200/1 overview	Manufacturer platform history and industry context. This supports system descriptions, not a board-level approval or an unrestricted interchangeability claim.
Apter Power label photograph	DSMB 178, 57360001-MM and PR:01 are visible on the photographed board. They do not replace inspection of the offered unit or establish the meaning of IN5730-1001-Y.

Supplementary manual references named by ABB 3BSE002142R1 include MasterPiece 200/1 Installation, Commissioning and Service 7650 043-205 and Design Manual 7650 099-203. Obtain the edition applicable to the installed equipment; these references do not imply that those manuals are supplied here.

Related ABB catalogue references

These are separate catalogue items for further engineering review. They are not approved substitutes for this listing.

ABB DSPC172H 57310001-MP	Review its own controller, memory and revision requirements.
ABB DSMB127 57360001-HG	Review its own controller, memory and revision requirements.
ABB DSPC155 57310001-CX	Review its own controller, memory and revision requirements.

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