

Installation scope

Use this guide with the approved installed-drive documentation. It is a model-specific field checklist, not a substitute for the complete GE system manual.

IDENTIFY THE BOARD

Confirm General Electric 531X307LTBAJG1 on the actual card and record its group, position and connected cable labels before disturbing the system.

PLACE THE SYSTEM IN A SAFE STATE

Only trained personnel should work inside the drive or exciter. Follow the site isolation, stored-energy and test-before-touch procedure in the controlling documentation.

PRE-WORK EVIDENCE	RECORD BEFORE REMOVAL
Control-side record	SDCC/drive-control connection and the board's 8PL path
Field-side record	Every input plug, interlock, form-C relay contact and connected device
Optional path	RTBA pilot/relay connection only if present in the installed system

APTER POWER SALES TEAM

WhatsApp / Phone +86 180 3023 5313

Email sales13@apterpower.com

apterpower.com



Readiness and connection map

CHECK	ACCEPTANCE BEFORE INSERTION
Complete identity	Part number and installed G1 marking match the replacement unit.
Control cable	8PL/control-board cable and orientation are recorded.
Eight input paths	Each used CI input plug is matched to its field device and drawing.
Seven output paths	Each used form-C relay contact is matched to its controlled circuit.
Optional relay board	RTBA presence or absence is determined from the cabinet and drawing.
Route separation	I/O ribbon routing is segregated from power wiring.

HOLD POINT

Stop if the full suffix, connector arrangement, board group or existing wiring does not agree with the approved replacement record. Do not infer interchangeability from the 531X307LTB family prefix alone.

Controlled replacement sequence

1 ISOLATE

Complete the site-approved isolation, discharge and safe-work check.

2 DOCUMENT

Photograph or record terminal positions, 8PL orientation and every used field connection.

3 REMOVE

Release the board using ESD handling; inspect contacts and cable condition.

4 MATCH

Compare complete model, group marking and connector arrangement with the removed board.

5 RECONNECT

Restore each documented input, relay contact, interlock and optional RTBA path.

6 REVIEW

Check cable routing and ensure no input is connected across an inductive device.

BEFORE ENERGIZATION

Have the controlled wiring record, drive drawing and acceptance plan available at the cabinet.

Acceptance after replacement

STAGE	REQUIRED PROOF
1 Identity	Confirm the installed complete model and board group against the work order.
2 Connections	Check 8PL/control cable, input plugs, relay contacts and any RTBA path.
3 Input function	Under approved test conditions, exercise each affected field input and verify the drive sees the expected state.
4 Output function	Under controlled conditions, verify each affected contact and external device responds correctly.
5 Interlocks	Prove documented interlocks and remove any unexplained input leakage or false-on state.
6 Release	Record results, restore covers and obtain site restart approval.

IF AN INPUT STAYS ON

Inspect series-device leakage and cable routing as directed by GEH-6005; do not change wiring or threshold assumptions without the installed revision data.

MANUFACTURER DOCUMENT

GE DC2000 Digital Adjustable Speed Drive, GEH-6005, September 1995, sections 5-4.6 and 6-9. The complete suffix is verified separately; check the installed board revision before applying family-level instructions.

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