

NP 104X905BA603

GENERAL ELECTRIC EX2000 OPERATOR KEYPAD PANEL

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Verified product context

- The supplied item photograph is marked NP 104X905BA603 on the front panel.
- The keypad provides a local operator interface for the legacy GE EX2000 platform.
- GE Vernova identifies EX2000 as a static excitation system in Phase 3 Legacy status.
- Match the visible marking, housing, key legends and host configuration before replacement.

Source basis: GE Vernova EX2000 Life Extension factsheet GEA35337.

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GE VERNOVA

FACT SHEET

EX2000 LIFE EXTENSION

A comprehensive set of maintenance and modernization options to manage the lifecycle of GE Vernova's EX2000 static excitation system.

Introduced in 1993 and produced until 2002, GE Vernova's EX2000 family of automatic voltage regulators and excitation systems continue to serve a wide variety of turbine-generator applications.

GE Vernova's EX2000 Lifecycle Status

The EX2000 officially entered End-of-Life Support status in 2012.



An Expanding Modernization Portfolio

GE Vernova's EX2000 J-frame and L-frame static excitation system (~1200A – 8000A dc) share a common power converter design and operate on hundreds of large steam, hydro and heavy-duty gas turbine-generators. The compact system footprint and reliable architecture can now be modernized over time and as budget and operating reliability requirements demand.

New power converter refurbishment products, blower assemblies and DC contactor assemblies are structured to provide cost effective alternatives to full system replacements. With a large percentage of GE Vernova's EX2000 static exciters now operating with updated controls, the modular system design provides an opportunity to selectively update other key elements of the system, continuing to extend reliable revenue services and further enhance the return on the original system.

Extending System Useful Life

Over the last 15 years, GE Vernova has developed a variety of control migration products for the legacy GE excitation and static starter products as well as platforms of other OEM control providers. We pioneered Digital Front End (DFE) controls upgrades for the fleet of GE Vernova's EX2000 static exciters and controls-only upgrades offer a cost-effective way to address the increased operational risk and performance limitations of digital excitation control hardware, and application and operating system software as they mature.

Updated digital controls provide a host of benefits:

- Increased system flexibility to meet new operating challenges
- Reduce staff overhead associated with evolving regulatory compliance requirements
- Reduced cybersecurity attack surface
- Improve data integration and decision support
- Ensure access to readily available spares
- Patching and software support
- Shorter outage durations
- Less intrusive, doesn't disturb AC or DC cabling



GE Vernova's EX2000 power electronics have proven to be highly reliable and with regular maintenance, GE Vernova's EX2000 power conversion train has surpassed the design intent of a 20-year service life. Fleet leaders are approaching 30 years of almost continuous operation.

Updated power conversion modules provide:

- Enhanced insulation system on SCR clamps
- New SCRs, fuses and capacitors to restore original operating characteristics and performance and protection
- Complete inspection and retorquing of bus and mechanical connections
- Reset the clock on wear driven by thermal cycling driven by operational changes
- Replace worn cooling blower assemblies and motors

The GE Vernova team can work with you to lay out a plan to manage the lifecycle of your excitation system modernization, maintenance, TIL implementation and parts inventories.

Contact your local GE Vernova Sales Representative for more information.

POWER CONVERSION MODULES

Three complete phase assemblies

- Clamped SCRs and heat sinks
- Snubber resistors
- Snubber capacitors
- Thermostatic switches
- DC leg fuse assemblies
- Lexan covers and baffles
- Mechanical fasteners

Services

- Converter module disassembly
- Cleaning of mounting points and connections
- Reassembly of three new, complete phase assemblies
- Torque to spec
- Termination of firing and instrumentation wiring
- Megger test
- Recommissioning of power conversion modules

COOLING SYSTEM COMPONENTS

3 HP Blower Motor Assemblies

- Motors with centrifugal switches
- Blower housing and wheels
- Blower fuses
- Terminal assembly

Blower Motor Transformers

Services

- Remove existing blowers and transformers
- Mount new components
- Terminate power and instrumentation
- Functional test



GE VERNOVA

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GEA35337 (07/2026)

Ready to source this part?

Ask for availability, pricing and delivery options.

Request a fast quote

Include the exact front marking, host system, quantity and destination.

EMAIL

info@apterpower.com

PHONE

+86 18106909650



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