Benefits of Life Extension Programs:
- Extended service life
- Improved safety
- Reduced maintenance
- Improved reliability
- No new foundations, rewiring, changes in bus location or space relocation required
- Increased interrupting capability (up-rate package only)
- New technology implemented on upgraded components may qualify for CapEx funding

Description
Performance of modified breakers has been verified by extensive high power interrupting tests performed in accordance with ANSI standards. All modification kits supplied are individually designed and tailored to the particular shop order. All necessary parts, hardware, fittings, nameplates, and instructions are included. All contacts and other parts and materials supplied are controlled to stringent ABB and industry specifications.

Life Extension Parts Kits
Many Type G and GO breakers have exceeded 20 years of service. A specially engineered kit from ABB can dramatically extend the service life of these units at a fraction of the cost of a new breaker.

Kits are available for:
- 144G1000, 144G1500
- 230G500, 230G1500
- 345G500, 345G1000, 345G1500, 345G2500
- 460G500, 460G1500, 460G2500
- 690G1000, 690G1500, 690G2500, 690G3500
- GO-B
- GO-1A, GO-1B
- GO-2, GO-2A, GO-2B
- GO-3, GO-3A, GO-3B
- GO-4A, GO-4B
- GO-5, GO-5A, GO-5B

The Life Extension Kit includes:
- New or refurbished stationary and moving contacts.
- New or refurbished interrupter grid stacks.
- All tank gaskets.
- Associated installation hardware.
- Other parts as needed.
- Adhesives and lubricants.
- Installation instructions and drawings.
- Maintenance checklist.

Up-rating
Up-rating older oil circuit breakers provides an economical and efficient way to improve their performance. Not only can up-rating meet the need to increase current carrying capacity and / or interrupting capability, it can dramatically extend the life of the unit at a fraction of the cost of a new breaker. Also, special kits are available to modify for capacitor switching capability.

For some breakers, all that may be required for the up-rated nameplate is inspection by a qualified ABB technician to assure that the breaker is in “as new” condition.

Design engineers with in-depth product knowledge direct the up-rates. They draw on decades of technical information about materials, configuration, and performance. ABB field engineers and specially trained technicians can perform the up-rate or assist as required through project management or installation services.
Up-rate Packages are available for:
- 144GC100, 144GC250
- 144G1000, 144G1500
- 230G500, 230G1500
- 345G500, 345G1000, 345G1500, 345G2500
- 460G500, 460G1500, 460G2500
- 690G1000, 690G1500, 690G2500, 690G3500
- GO-B
- GO-1A, GO-1B
- GO-2, GO-2A, GO-2B
- GO-3, GO-3A, GO-3B
- GO-4A, GO-4B
- GO-5, GO-5A, GO-5B

Typical up-rate packages include:
- New or refurbished stationary and moving contacts
- New or rebuilt interrupter grid stack assemblies built to the latest design specifications
- All tank gaskets
- All associated installation hardware
- Installation instructions and drawings
- Major maintenance checklist
- Individual tailoring of kits to the specific breaker shop order number

Rebuilt Grid Stacks
You can choose from new interrupter grid stacks available from stock, a rebuild of your existing grid stacks, or when available, rebuilt units from stock. Rebuilding consists of:
- Complete dismantling of all interrupter grid stacks.
- Thorough examination of all items.
- Replacement of interrupter grid plates that show any sign of erosion due to arcing, or are broken, cracked or warped, with new plates that meet the stringent ABB material specifications and dimensional tolerances.
- All remaining plates are dimensionally check and if within tolerance, are cleaned and reused.
- All tie rods are pull-tested to design specifications to verify their mechanical integrity. Any signs of yielding will result in replacement of the tie rods.
- The grid stack is carefully reassembled with the addition of a compressible plate assembly for extended stack life.

All operations are performed by trained technicians using current design and manufacturing specifications. A quality control checklist is used to verify compliance with these specifications.

For more information, please contact:

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Note:

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