
DESCRIPTION

In 2003, ABB Totalflow began a repair service on selected electronic boards. This service has continued to grow in popularity as the list of boards eligible for repair also grows. Furthermore, board exchanges are also offered to compliment the board repair service. The repair service has the following advantages:

- Repair cost less than exchange pricing.



- ABB's factory repair using functional tests designed by engineers who developed the hardware.
- Standard 5-business day repair (not including shipping time).
- Automated testing of all electronic board circuitry.
- Retain existing level of safety certification on electronic board.
- Only ABB approved repair parts used.
- Electronic board updated to latest hardware and software revision, if required.
- Three tier pricing structure means lower repair cost.
- Completed repair form stating what work was performed returned with repaired electronic board.
- If your electronic board cannot be repaired, you can apply the level one (test fee) toward the purchase of a replacement electronic board.

GENERAL REPAIR POLICIES

- Customer required to call Totalflow Order Entry for return authorization number. The number will be provided with a "TR" suffix indicating "Totalflow Repair". Call (800) 442-3097 option 1 domestic and 1-918-338-4880 option 1 international.
- Standard 5-business day repair if repairable. Repair time does not include shipping time.
- Maximum 5 boards returned per order.
- Customer pays return shipping costs and ABB pays outbound UPS ground (US only) shipping cost. International shipments billed to customer.
- 90 day warranty on all repairs.
- Repairs are currently limited to items listed in "Repair Price List".
- Proms need to be left on boards being returned for repair.

REPAIR PRICE LIST
***Level 1 Functional Test Only**

(Test fee can be applied toward the purchase of new board if board either cannot be repaired or customer chooses not to have it repaired)

****Level 2 Minor Repair**

(single component or fuses), upgrade revision level (if required), functional test all circuits

*****Level 3 Major Repair**

(multiple components), upgrade revision level (if required), functional test all circuits

NGC/PGC ACM Repair

Functional test and repair setup fee : \$250
 Repair: Labor rate \$90 per hour, plus parts

Complete Flow Computer Repair

Test/Repair setup fee: \$250
 Repair: Labor rate \$90 per hour, plus parts

Description of Assembly	PartNumber	Level 1 Repair*	Level 2 Repair**	Level 3 Repair***
UCI Assembly	2011763-001	\$83	\$83	\$83
UCI Assembly	2011763-901	\$83	\$83	\$83
BTU 8000/8100 GC Module	2013902-002	\$180	\$317	\$1,459
BTU 8000/8100 GC Module	2013902-902	\$180	\$317	\$1,459
6400 Electronic board	2015189-005	\$80	\$212	\$242
6400 Electronic board	2015189-006	\$80	\$212	\$242
6400 Electronic board	2015189-906	\$80	\$212	\$242
6400 Electronic board	2015333-002	\$80	\$212	\$242
6400 Electronic board	2015333-003	\$80	\$212	\$242
6400 Electronic board	2015333-004	\$80	\$212	\$242
6400 Electronic board	2015333-902	\$80	\$212	\$242
6400 Electronic board	2015333-903	\$80	\$212	\$242
6400 Electronic board	2015333-904	\$80	\$212	\$242
CB181 Electronic board Division 2	2015382-001	\$87	\$304	\$374
CB181 Electronic board General purpose or Division 1	2015382-002	\$87	\$304	\$374
CB181 Electronic board Division 2	2015382-003	\$87	\$304	\$374
CB181 Electronic board Division 2	2015382-901	\$87	\$304	\$374
CB181 Electronic board General purpose or Division 1	2015382-902	\$87	\$304	\$374
CB181 Electronic board Division 2	2015382-903	\$87	\$304	\$374
BTU 8000/8100 Stream Selector Module	2015615-001	\$165	\$362	\$822
BTU 8000/8100 Stream Selector Module	2015615-002	\$165	\$362	\$822
BTU 8000/8100 Stream Selector Module	2015615-901	\$165	\$362	\$822
BTU 8000/8100 Stream Selector Module	2015615-902	\$165	\$362	\$822
Btu Pressure Regulator Control Electronic board	2015619-001	\$73	\$241	\$454
Btu Pressure Regulator Control Electronic board	2015619-901	\$73	\$241	\$454
BTU 8000/8100 Controller Module Assembly	2015640-007	\$128	\$289	\$1,273
BTU 8000/8100 Controller Module Assembly	2015640-907	\$128	\$289	\$1,273
XSeries XFC Electronics Board	2100204-001	\$98	\$302	\$410
XSeries XFC Electronics Board	2100204-002	\$98	\$302	\$410
XSeries XFC Electronics Board	2100204-003	\$98	\$302	\$410
XSeries XFC Electronics Board	2100204-902	\$98	\$302	\$410
XSeries XFC Electronics Board	2100204-903	\$98	\$302	\$410
XSeries XRC Electronics Board	2100355-001	\$83	\$254	\$345
XSeries XRC Electronics Board	2100355-002	\$83	\$254	\$345
XSeries XRC Electronics Board	2100355-902	\$83	\$254	\$345
BTU 8000/8100 GC Module	2100622-002	\$165	\$289	\$1,332
BTU 8000/8100 GC Module	2100622-902	\$165	\$289	\$1,332
BTU 8000/8100 Controller Module Assembly	2100624-002	\$128	\$289	\$1,273
BTU 8000/8100 Controller Module Assembly	2100624-902	\$128	\$289	\$1,273
BTU 8000/8100 Controller Module Assembly	2100952-001	\$128	\$289	\$1,273
BTU 8000/8100 Controller Module Assembly	2100952-901	\$128	\$289	\$1,273

Description of Assembly	PartNumber	Level 1 Repair*	Level 2 Repair**	Level 3 Repair***
G4 XFC Electronics Board (Please remove the engine card "the small board" off the XFC board before returning for repair.) The engine card contains all your measurement, history, set up and configuration data. (Repair price doesn't include engine card.)	2102838-002	\$93	\$294	\$393
G4 XFC Electronics Board (Please remove the engine card "the small board" off the XFC board before returning for repair.) The engine card contains all your measurement, history, set up and configuration data. (Repair price doesn't include engine card.)	2102838-902	\$93	\$294	\$393
G4 XRC Electronics Board (Please remove the engine card "the small board" off the XRC board before returning for repair.) The engine card contains all your measurement, history, set up and configuration data. (Repair price doesn't include engine card.)	2103022-002	\$83	\$244	\$333
G4 XRC Electronics Board (Please remove the engine card "the small board" off the XRC board before returning for repair.) The engine card contains all your measurement, history, set up and configuration data. (Repair price doesn't include engine card.)	2103022-902	\$83	\$244	\$333

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