
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

Description of Assembly	Part Number	Level 1 Repair*	Level 2 Repair**	Level 3 Repair***
RS-485 Interface board	2010210-004	\$62.00	\$99.00	\$117.00
282 Electronic Board Assembly	2010282-001	\$62.00	\$259.00	\$319.00
282 Electronic Board Assembly	2010282-901	\$62.00	\$259.00	\$319.00
UCI Assembly	2011763-001	\$62.00	\$117.00	\$142.00
UCI Assembly	2011763-901	\$62.00	\$117.00	\$142.00
772 Electronic Board Assembly	2011772-001	\$62.00	\$259.00	\$319.00
Expanded I/O termination board (terminal strip)	2012511-001	\$62.00	\$161.00	\$251.00
Computer board CB180 – Electronic board, (128K X 8)	2012803-004	\$69.00	\$259.00	\$319.00
Computer board CB180 – Electronic board, (128K X 8)	2012803-005	\$69.00	\$259.00	\$319.00
Computer board CB180 – Electronic board, (128K X 8)	2012803-904	\$69.00	\$259.00	\$319.00
Computer board CB180 – Electronic board, (128K X 8)	2012803-905	\$69.00	\$259.00	\$319.00
VCI Termination board	2012826-002	\$62.00	\$148.00	\$161.00
RS-232 Interface board (6600 FCU)	2012878-002	\$62.00	\$148.00	\$161.00
Expanded I/O Electronic board, 6MHZ, W/128K RAM	2012901-001	\$62.00	\$240.00	\$284.00
Expanded I/O Electronic board, 6MHZ, W/128K RAM	2012901-002	\$62.00	\$240.00	\$284.00
Expanded I/O Electronic board, 6MHZ, W/128K RAM	2012901-902	\$62.00	\$240.00	\$284.00
Communications Interface with 4 analog outputs (RS485)	2012911-003	\$62.00	\$148.00	\$161.00
Communications Interface with 4 analog outputs (RS232)	2012911-004	\$62.00	\$148.00	\$161.00
Communications Interface with 4 analog outputs (RS485)	2012911-903	\$62.00	\$148.00	\$161.00
Btu 8000/8100 GC Module	2013902-002	\$141.00	\$246.00	\$1,136.00
Btu 8000/8100 GC Module	2013902-902	\$141.00	\$246.00	\$1,136.00
6400 Electronic board	2015189-005	\$69.00	\$181.00	\$206.00
6400 Electronic board	2015189-006	\$69.00	\$181.00	\$206.00
6400 Electronic board	2015189-906	\$69.00	\$181.00	\$206.00
6400 Electronic board	2015333-002	\$69.00	\$181.00	\$206.00
6400 Electronic board	2015333-003	\$69.00	\$181.00	\$206.00
6400 Electronic board	2015333-004	\$69.00	\$181.00	\$206.00
6400 Electronic board	2015333-902	\$69.00	\$181.00	\$206.00
6400 Electronic board	2015333-903	\$69.00	\$181.00	\$206.00
6400 Electronic board	2015333-904	\$69.00	\$181.00	\$206.00
CB181 Electronic board Division 2	2015382-001	\$74.00	\$259.00	\$319.00
CB181 Electronic board General purpose or Division 1	2015382-002	\$74.00	\$259.00	\$319.00
CB181 Electronic board Division 2	2015382-003	\$74.00	\$259.00	\$319.00
CB181 Electronic board Division 2	2015382-901	\$74.00	\$259.00	\$319.00
CB181 Electronic board General purpose or Division 1	2015382-902	\$74.00	\$259.00	\$319.00
CB181 Electronic board Division 2	2015382-903	\$74.00	\$259.00	\$319.00
Expanded I/O Electronic board	2015452-001	\$62.00	\$240.00	\$284.00
Expanded I/O Electronic board	2015452-002	\$62.00	\$240.00	\$284.00
Expanded I/O Electronic board	2015452-901	\$62.00	\$240.00	\$284.00
Expanded I/O Electronic board	2015452-902	\$62.00	\$240.00	\$284.00

Description of Assembly	Part Number	Level 1 Repair*	Level 2 Repair**	Level 3 Repair***
Btu 8000/8100 Stream Selector Module	2015615-001	\$141.00	\$308.00	\$700.00
Btu 8000/8100 Stream Selector Module	2015615-002	\$141.00	\$308.00	\$700.00
Btu 8000/8100 Stream Selector Module	2015615-901	\$141.00	\$308.00	\$700.00
Btu 8000/8100 Stream Selector Module	2015615-902	\$141.00	\$308.00	\$700.00
Btu Pressure Regulator Control Electronic board	2015619-001	\$62.00	\$206.00	\$387.00
Btu Pressure Regulator Control Electronic board	2015619-901	\$62.00	\$206.00	\$387.00
Btu 8000/8100 Controller Module Assembly	2015640-007	\$108.00	\$246.00	\$1,086.00
Btu 8000/8100 Controller Module Assembly	2015640-907	\$108.00	\$246.00	\$1,086.00
Expanded I/O termination board (terminal strip)	2017220-001	\$62.00	\$151.00	\$251.00
Expanded I/O termination board (terminal strip w/ pluggable connectors)	2017220-003	\$62.00	\$161.00	\$251.00
Expanded I/O termination board (terminal strip w/ pluggable connectors)	2017220-004	\$62.00	\$161.00	\$251.00
Expanded I/O termination board (terminal strip)	2017220-901	\$62.00	\$161.00	\$251.00
Expanded I/O termination board (terminal strip w/ pluggable connectors)	2017220-903	\$62.00	\$161.00	\$251.00
RTU Electronic board (RS485)	2017245-001	\$62.00	\$259.00	\$319.00
RTU Electronic board (RS232)	2017245-002	\$62.00	\$259.00	\$319.00
RTU Electronic board (RS485)	2017245-901	\$62.00	\$259.00	\$319.00
RTU Electronic board (RS232)	2017245-902	\$62.00	\$259.00	\$319.00
ABB RS232/RS485 converter electronic board	2017266-001	\$62.00	\$117.00	\$142.00
ABB RS232/RS485 converter electronic board	2017266-901	\$62.00	\$117.00	\$142.00
Expanded I/O Electronic board, 6MHZ, W/128K RAM	2017333-001	\$62.00	\$240.00	\$284.00
Expanded I/O Electronic board, 12 MHz, W/512K RAM	2017333-008	\$62.00	\$240.00	\$284.00
Expanded I/O Electronic board, 6MHZ, W/128K RAM	2017333-901	\$62.00	\$240.00	\$284.00
Expanded I/O Electronic board, 12 MHz, W/512K RAM	2017333-908	\$62.00	\$240.00	\$284.00
XSeries XFC Electronics Board	2100204-001	\$88.00	\$270.00	\$366.00
XSeries XFC Electronics Board	2100204-002	\$88.00	\$270.00	\$366.00
XSeries XFC Electronics Board	2100204-003	\$88.00	\$270.00	\$366.00
XSeries XFC Electronics Board	2100204-902	\$88.00	\$270.00	\$366.00
XSeries XFC Electronics Board	2100204-903	\$88.00	\$270.00	\$366.00
XSeries XRC Electronics Board	2100355-001	\$74.00	\$227.00	\$308.00
XSeries XRC Electronics Board	2100355-002	\$74.00	\$227.00	\$308.00
XSeries XRC Electronics Board	2100355-902	\$74.00	\$227.00	\$308.00
Btu 8000/8100 GC Module	2100622-002	\$141.00	\$246.00	\$1,136.00
Btu 8000/8100 GC Module	2100622-902	\$141.00	\$246.00	\$1,136.00
Btu 8000/8100 Controller Module Assembly	2100624-002	\$108.00	\$246.00	\$1,086.00
Btu 8000/8100 Controller Module Assembly	2100624-902	\$108.00	\$246.00	\$1,086.00
Btu 8000/8100 Controller Module Assembly	2100952-001	\$108.00	\$246.00	\$1,086.00
Btu 8000/8100 Controller Module Assembly	2100952-901	\$108.00	\$246.00	\$1,086.00

Description of Assembly	Part Number	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. Engine card can be purchased separately.)	2102838-002	\$85.00	\$265.00	\$355.00
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. Engine card can be purchased separately.)	2102838-902	\$85.00	\$265.00	\$355.00
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. Engine card can be purchased separately.)	2103022-002	\$75.00	\$220.00	\$300.00
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. Engine card can be purchased separately.)	2103022-902	\$75.00	\$220.00	\$300.00

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