GE IC693ALG442

01 Establish the service boundary

1 Capture the analog circuit map

Identify the four input assignments and two output assignments with their actual field devices. Retain signal functions, configured scales and the accepted operating state before work.

2 Classify the actual hardware

Record IC693ALG442 revision and installed backplane identity. Evaluate system compatibility separately from hot-swap eligibility; if either is unresolved, do not assume that energized exchange is permitted.

3 Prepare the control loops

Agree the maintenance state for each affected measurement or command. Isolate equipment according to the approved service plan and account for field circuits independently of rack status.

Unit record	Complete reference and readable revision
Rack record	Universal, expansion or remote expansion identity
Process record	Affected loops and approved maintenance modes

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02 Reconcile signals before returning control

1 Compare the replacement before connection

Check marking, connectors and retained loop map. Use the installation procedure appropriate to the verified module revision and backplane; restore every conductor to its intended assignment.

2 Test measurement and command paths

Apply approved input references and compare controller interpretation. Test authorized output commands against the actual circuit and receiving-device response without assuming that one healthy direction proves the other.

3 Close the maintenance state

Record results, remove temporary forces and test connections, and restore normal control through the approved process. Investigate discrepancies before release.

Inputs accepted	Known signal agrees with channel and engineering units
Outputs accepted	Authorized command agrees with physical response
Normal operation	Expected control mode restored; temporary measures removed

Related product references

ABB DI811 3BSE008552R1

ABB TB811 3BSE008568R1

ABB GINT-6611C 68577349

Separate references; no substitution or compatibility is implied.