Allen-Bradley 80026-044-06-R

01 Define the service boundary

1 Locate the power path

Identify the exact IGDPS and its 56 VDC source. Record the gate-driver destinations and the drive fault or warning before disconnecting wiring.

2 Separate source and converter faults

Keep AC/DC source failures, IGDPS 56V Loss and gate-output faults distinct. Their diagnostic names point to different parts of the auxiliary circuit.

Input supply	56 VDC
Gate-drive output	20 VDC
Output diagnostic tolerance	+/-2%

02 Prepare the installation

1 Isolate the drive

Apply the approved medium-voltage and control-power isolation, discharge and verification procedure before accessing the supply or gate circuitry.

2 Capture connection identities

Mark the incoming auxiliary feed and outgoing gate-power connections. Inspect for loose, damaged or incorrectly seated connectors.

Output check window	19.6-20.4 VDC
IGDPS loss fault	53

03 Restore connections and settings

1 Restore the intended converter

Match the complete 80026-044-06-R identity and installed assembly. Do not substitute a similarly numbered board with a different input or output arrangement.

2 Check upstream voltage

Under the authorized test setup, compare AC/DC output with the voltage at the IGDPS input. Correct wiring loss before evaluating the converter.

Connection check	Retain source and output assignments
Test boundary	Qualified controller/drive procedure

04 Verify the operating response

1 Verify the gate supply

Measure the nominal 20 VDC output at the prescribed points and compare it with 19.6-20.4 VDC. Include the affected gate-driver power connection.

2 Compare sensed and actual input

For fault 53, measure ACB J15 and compare with P101. A normal physical rail and low displayed value call for control-path investigation.

Verification	Physical voltage plus diagnostic state
Release	Resolve cause before restart

05 Release and retain the evidence

1 Clear the causal fault

Resolve source, connection or sensing problems and apply the appropriate diagnostic reset. Replacing a board alone is not proof of a healthy gate path.

2 Document controlled recovery

Retain input/output readings, measured-versus-reported comparison and the final drive diagnostic result before the authorized restart.

Technical basis: Rockwell Automation PowerFlex 7000 Troubleshooting Guide, 7000-TG002L-EN-P, February 2020.

Related product navigation

- Allen-Bradley 80190-320-23-R
- Allen-Bradley 80190-780-01-R

These are related references, not confirmed substitutes or an automatically approved assembly.