

80190-560-01-R

Analog Control Board for 18-Pulse Drive

INSTALLATION, INTERFACE AND VALIDATION WORKBOOK

Allen-Bradley 80190-560-01-R is the exact manufacturer-listed analog control board for 18-pulse drive for the documented installed system.

STEP	GATE	ENGINEERING PURPOSE
01	IDENTIFY	Confirm article, host and hardware
02	ISOLATE	Secure power and stored energy
03	CONNECT	Restore documented interfaces
04	VALIDATE	Prove diagnostics and function

WORKBOOK PURPOSE

Field-ready identity, isolation, connection, commissioning and closeout records for this exact Allen-Bradley article.

APTER POWER SALES TEAM

WHATSAPP / PHONE +86 180 3023 5313
EMAIL sales13@apterpower.com
WEBSITE www.apterpower.com



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Installation Readiness Gate

Complete the identity, host-system and isolation checks before disturbing the installed hardware.

- 1

Confirm Allen-Bradley 80190-560-01-R, the ACB designation and the 18-pulse drive execution.
- 2

Isolate all drive power and prove stored energy discharged.
- 3

Use ESD controls and protect every board connector.
- 4

Record the installed slot, connectors, jumpers and cable labels.

Pre-Work Evidence

EVIDENCE ITEM	RECORDED VALUE
Complete article marking	80190-560-01-R
Host / carrier	Allen-Bradley PowerFlex 7000
Primary system role	Carries the official ACB board designation
Acceptance boundary	Verify board recognition and drive diagnostics before release.
Source record	PowerFlex 7000 Medium Voltage AC Drives Troubleshooting Guide

WORK AUTHORIZATION RECORD

Work order: _____

Drawing / revision: _____

Checked by: _____

Date: _____

Isolation and Access Register

CONTROL POINT	ENGINEER RECORD
Incoming supply	Isolated / proved
Stored energy	Discharged / proved
Field connections	Identified / protected
ESD control	Established / recorded

Pre-Work Documentation

DOCUMENT	ENGINEER RECORD
Connection photograph	Reference / file
Configuration backup	Reference / revision
Diagnostic baseline	Reference / result

Connection and Installation Sequence

INSTALLATION PRINCIPLE

Record the existing board slot, connectors, cable labels, jumpers and drive configuration before removal. Install only in the matching PowerFlex 7000 execution and verify board recognition, communications and drive diagnostics before power-stage testing.

- 1 Verify the replacement board matches the installed drive execution.
- 2 Seat connectors without force and reproduce the documented routing.
- 3 Restore power through the approved PowerFlex 7000 sequence.
- 4 Verify board recognition and drive diagnostics before release.

Connection Record

CONNECTION GROUP	AS-FOUND / AS-LEFT RECORD	STATUS
Power / field connection	Reference / terminal	Checked
Signal / interface	Reference / connector	Checked
Ground / shield	Reference / point	Checked
Accessory / carrier	Reference / part	Checked

MODEL-SPECIFIC RELEASE LIMIT

Confirm Allen-Bradley 80190-560-01-R, the complete PowerFlex 7000 or MV SMC Flex host identity, installed hardware execution, board or semiconductor position, connectors, wiring, grounding, cooling path, firmware or configuration where applicable, companion components and controlled commissioning results before service.

Interface Acceptance Criteria

ACCEPTANCE ITEM	REQUIRED EVIDENCE
Identity	80190-560-01-R
Host match	Allen-Bradley PowerFlex 7000
Connection proof	Seat connectors without force and reproduce the documented routing.
Configuration proof	Restore power through the approved PowerFlex 7000 sequence.

Commissioning and Acceptance Record

Record each controlled verification step before the equipment returns to automatic operation.

NO.	ACCEPTANCE CHECK	RESULT	RECORD
1	Article and host identity	PASS / FAIL	Initial / date
2	Mechanical installation	PASS / FAIL	Initial / date
3	Power and field wiring	PASS / FAIL	Initial / date
4	Grounding and shielding	PASS / FAIL	Initial / date
5	Configuration restoration	PASS / FAIL	Initial / date
6	Signal or power-path response	PASS / FAIL	Initial / date
7	Diagnostics and alarms	PASS / FAIL	Initial / date
8	Final functional release	PASS / FAIL	Initial / date

Engineering Notes

RECORD AREA	ENGINEER ENTRY
As-found condition	
Corrective action	
As-left configuration	
Outstanding restriction	
Release authorization	

CONTROLLED COMMISSIONING

Verify board recognition and drive diagnostics before release.

Diagnostics and Release Log

EVENT	ENGINEERING RECORD
Initial energization	Result / observation
Interface or signal response	Result / observation
Alarm and diagnostic review	Result / observation
Functional release	Name / date

ACCEPTANCE AND RELEASE EVIDENCE

PowerFlex 7000 control-board maintenance Restores the documented ACB position in the drive control system.	Drive cabinet modernization Preserves the approved board execution during a documented repair.
Control-path troubleshooting Supports connector, recognition and diagnostic checks in the installed drive.	Post-replacement commissioning Supports controlled verification before the power stage and motor are enabled.

Maintenance Verification and Closeout

PowerFlex 7000 control-board maintenance

Restores the documented ACB position in the drive control system.

Drive cabinet modernization

Preserves the approved board execution during a documented repair.

Control-path troubleshooting

Supports connector, recognition and diagnostic checks in the installed drive.

Post-replacement commissioning

Supports controlled verification before the power stage and motor are enabled.

Related Engineering Pages

MODEL	ENGINEERING ROLE	APTER POWER PAGE
Allen-Bradley 1756-TBCH	Allen-Bradley product	View Allen-Bradley 1756-TBCH page
Allen-Bradley 1763-L16BWA	Allen-Bradley product	View Allen-Bradley 1763-L16BWA page
Allen-Bradley 1756-OW16I	Allen-Bradley product	View Allen-Bradley 1756-OW16I page
Allen-Bradley 1734-AENTR	Allen-Bradley product	View Allen-Bradley 1734-AENTR page
Allen-Bradley 2711P-RDK10C	Allen-Bradley product	View Allen-Bradley 2711P-RDK10C page
Allen-Bradley 1756-L72	Allen-Bradley product	View Allen-Bradley 1756-L72 page
Allen-Bradley 1784-PKTX	Allen-Bradley product	View Allen-Bradley 1784-PKTX page
Allen-Bradley 1794-IE12	Allen-Bradley product	View Allen-Bradley 1794-IE12 page

MANUFACTURER SOURCE RECORD

PowerFlex 7000 Medium Voltage AC Drives Troubleshooting Guide
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