

# 80190-560-02-R

## Analog Control Board for Non-18-Pulse Drive

Allen-Bradley 80190-560-02-R is the exact manufacturer-listed analog control board for non-18-pulse drive for the documented installed system.

|       |                |             |                                            |
|-------|----------------|-------------|--------------------------------------------|
| BRAND | Allen-Bradley  | FAMILY      | Allen-Bradley PowerFlex 7000               |
| PART  | 80190-560-02-R | SYSTEM ROLE | Carries the official ACB board designation |

APTER POWER SALES  
TEAM

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



80190-560-02-R

### MANUFACTURER SOURCE RECORD

PowerFlex 7000 Medium Voltage AC Drives Troubleshooting Guide  
7000-TG002L-EN-P, February 2020

# Product Overview

## SYSTEM FUNCTION

Allen-Bradley 80190-560-02-R is the exact manufacturer-listed analog control board for non-18-pulse drive for the documented installed system.

### FUNCTION 1

Carries the official ACB board designation

### FUNCTION 2

Uses the documented non-18-pulse drive execution

### FUNCTION 3

Supports the PowerFlex 7000 control architecture

### FUNCTION 4

Preserves exact board identity during controlled replacement

## System Components

| COMPONENT           | DOCUMENTED ROLE                                                                                                                                                                                                                                                |
|---------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Host / carrier      | Allen-Bradley PowerFlex 7000                                                                                                                                                                                                                                   |
| Primary interface   | Carries the official ACB board designation                                                                                                                                                                                                                     |
| Engineering context | 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. |
| Commissioning duty  | Verify board recognition and drive diagnostics before release.                                                                                                                                                                                                 |

## TECHNICAL NOTE

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.

# Technical Data

| PARAMETER         | VALUE                | PARAMETER            | VALUE              |
|-------------------|----------------------|----------------------|--------------------|
| Board designation | ACB                  | Documented execution | non-18-pulse drive |
| Board type        | Analog Control Board | Drive family         | PowerFlex 7000     |

## Related Products on Apter Power

| MODEL                         | SYSTEM ROLE           | APTER POWER PAGE                                        |
|-------------------------------|-----------------------|---------------------------------------------------------|
| Allen-Bradley 1783-ETAP       | Allen-Bradley product | <a href="#">View Allen-Bradley 1783-ETAP page</a>       |
| Allen-Bradley 1769-OF4VI      | Allen-Bradley product | <a href="#">View Allen-Bradley 1769-OF4VI page</a>      |
| Allen-Bradley 1769-L36ERMS    | Allen-Bradley product | <a href="#">View Allen-Bradley 1769-L36ERMS page</a>    |
| Allen-Bradley 1769-L33ERM     | Allen-Bradley product | <a href="#">View Allen-Bradley 1769-L33ERM page</a>     |
| Allen-Bradley 1769-L19ER-BB1B | Allen-Bradley product | <a href="#">View Allen-Bradley 1769-L19ER-BB1B page</a> |
| Allen-Bradley 1762-OA8        | Allen-Bradley product | <a href="#">View Allen-Bradley 1762-OA8 page</a>        |
| Allen-Bradley 1762-IQ32T      | Allen-Bradley product | <a href="#">View Allen-Bradley 1762-IQ32T page</a>      |
| Allen-Bradley 1762-IQ16       | Allen-Bradley product | <a href="#">View Allen-Bradley 1762-IQ16 page</a>       |

### ENGINEERING BOUNDARY

Confirm Allen-Bradley 80190-560-02-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.

# Applications and Precautions

## Common Applications

### PowerFlex 7000 control-board maintenance

Restores the documented ACB position in the drive control system.

### Control-path troubleshooting

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

### Drive cabinet modernization

Preserves the approved board execution during a documented repair.

### Post-replacement commissioning

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

## Product Precautions

- 1

Confirm Allen-Bradley 80190-560-02-R, the ACB designation and the non-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.
- 5

Verify the replacement board matches the installed drive execution.
- 6

Seat connectors without force and reproduce the documented routing.
- 7

Restore power through the approved PowerFlex 7000 sequence.
- 8

Verify board recognition and drive diagnostics before release.

## IMPORTANT NOTICE

Confirm Allen-Bradley 80190-560-02-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.

| ACCEPTANCE CHECK   | REQUIRED EVIDENCE                                              |
|--------------------|----------------------------------------------------------------|
| Identity           | 80190-560-02-R                                                 |
| Configuration      | Restore power through the approved PowerFlex 7000 sequence.    |
| Functional release | Verify board recognition and drive diagnostics before release. |

# Engineer FAQ

## Q1 Which topology is documented for Allen-Bradley 80190-560-02-R?

The official spare-parts list identifies this ACB Analog Control Board for a non-18-pulse drive.

## Q3 What host information confirms use of Allen-Bradley 80190-560-02-R?

Verify the installed PowerFlex 7000 is the documented non-18-pulse execution and matches the approved service record.

## Q5 Which precautions protect Allen-Bradley 80190-560-02-R during service?

Isolate the drive, prove stored energy discharged and use ESD-safe board handling with protected connectors.

## Q7 How is Allen-Bradley 80190-560-02-R functionally checked?

Verify board recognition, associated analog/control status and drive diagnostics before controlled power-stage testing.

## Q2 Why is Allen-Bradley 80190-560-02-R not interchangeable with 80190-560-01-R?

80190-560-02-R is the non-18-pulse ACB, while 80190-560-01-R is the separate 18-pulse execution.

## Q4 What should be documented before disconnecting Allen-Bradley 80190-560-02-R?

Capture its ACB slot, connector labels, jumpers, cable routing and relationship to adjacent control boards.

## Q6 What must match before Allen-Bradley 80190-560-02-R is powered?

Confirm the complete catalog number, non-18-pulse drive identity, slot, jumpers, connectors and documented configuration.

## Q8 Which evidence is specific to Allen-Bradley 80190-560-02-R?

Retain the non-18-pulse identity check, as-found and as-left connections, recognition, diagnostics and commissioning results.

## MANUFACTURER SOURCE RECORD

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