

DURAPULSE AC DRIVES REPLACEMENT FAN INSTALLATION



- Please read this instruction sheet thoroughly before installing these AC drive cooling fans.
- Tools required: Phillips screwdriver, needle-nose pliers (optional).
- The contents of this instruction sheet may be changed without prior notice. Please check the AutomationDirect website for the latest version: www.automationdirect.com

CAUTION



Repairs to be performed only by a qualified industrial electrical technician.



Disconnect all power to the motor and lock out the power source before performing any repairs.

INSTALLATION INSTRUCTIONS FOR GS-FAN-1

FOR DURAPULSE DRIVES: GS3-43P0



- 1 Fan is located underneath drive, at the heatsink.
- 2 Remove the two screws holding the fan and cover to the heatsink.
- 3 Using a small pair of long needle-nosed pliers, unplug the electrical connector located between the heatsink fins.
- 4 Reverse this procedure to install the new fan.

INSTALLATION INSTRUCTIONS FOR GS-FAN-2

FOR DURAPULSE DRIVES: GS3-23P0, -25P0, -45P0



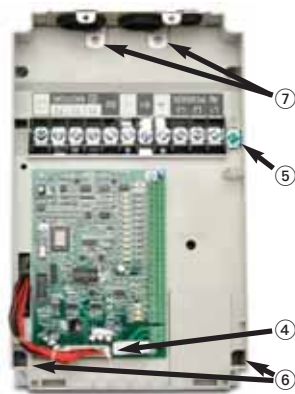
- 1 Fan is located underneath drive, at the heatsink.
- 2 Remove the four screws holding the fan and cover to the heatsink.
- 3 Unplug the electrical connector.
- 4 Reverse this procedure to install the new fan.

INSTALLATION INSTRUCTIONS FOR GS-FAN-3

FOR DURAPULSE DRIVES: GS3-27P5, -2010, -2015, -47P5, -4010, -4015

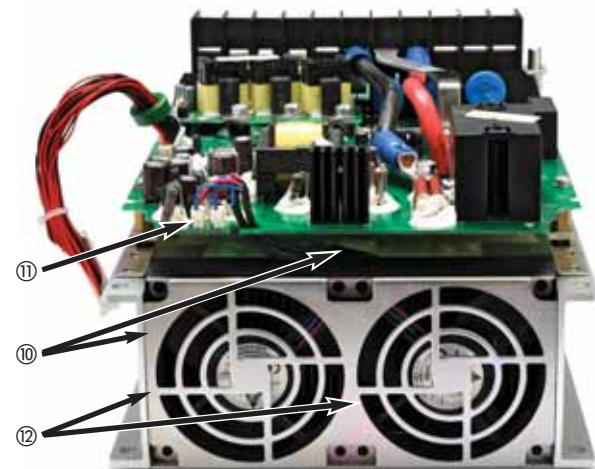
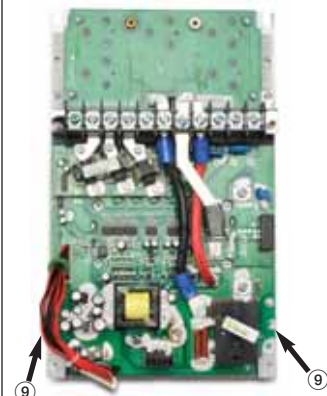


- 1 The two fans are located on the top side of the drive.
- 2 Remove the drive keypad and front cover.
- 3 Remove the eight screws holding the fans and cover to the heatsink. (The four screws toward the front of the drive are self-threading, and they seat into the fan plastic. The four screws toward the rear of the drive are machine screws that seat into the drive.)



- 4 Unplug the electrical connector.
- 5 Remove the ground bolt.
- 6 Remove the two screws at the top of the plastic case.
- 7 Remove the two screws holding the cable entry plate.
- 8 Remove the plastic case (with front circuit board attached).

- 9 Remove the two screws holding the metal fan bracket to the drive heatsink.



- 10 Slide the metal fan bracket out from under the base driver board. (There may be tape attaching the bracket to the drive.)
- 11 Unplug the fan electrical connectors.
- 12 Replace the fans in the metal fan bracket.
- 13 Reverse this procedure to reassemble the drive.

INSTALLATION INSTRUCTIONS FOR GS-FAN-4

FOR DURAPULSE DRIVES: GS3-2020, -2025, -2030, -4020, -4025, -4030



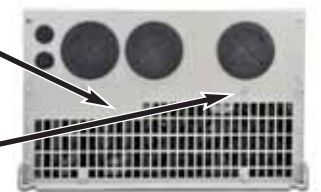
- 1 The two fans are located on the top side of the drive.
- 2 Remove the eight screws holding the fans and cover. (The two middle screws toward the back of the drive are self-threading, and they seat into the fan plastic. The other six screws are machine screws that seat into the drive heatsink.)
- 3 Unplug the fan connectors, and replace the fans.
- 4 Reverse this procedure to reinstall the fan assembly. (Make sure to fasten the two bracket screws first.)

INSTALLATION INSTRUCTIONS FOR GS-FAN-5

FOR DURAPULSE DRIVES: GS3-2040, -2050, -4040, -4050, -4060, -4075, -4100



- 1 The two fans are mounted inside the drive, on the bottom side.
- 2 Remove the drive front cover.
- 3 For GS3-4075 & GS3-4100 only, remove the only external screw that holds the fan assembly.



GS3-4075 & GS3-4100



- 4 Remove the four screws holding the fan tray. (GS3-4075 & -4100 have only 3 screws.)



- 5 Carefully slide out the fan tray.
- 6 Unplug the electrical connectors and replace the fans.
- 7 Reverse this procedure to reassemble the drive.

DURAPULSE AC DRIVES REPLACEMENT FAN INSTALLATION

FASTENER INFORMATION FOR GS3/DURAPULSE DRIVES FANS

<i>Fastener Information</i>			
<i>DURAPULSE Drive Model Numbers</i>	<i>Quantity</i>	<i>Phillips Head Screw Fastener Size</i>	<i>Location</i>
<i>GS3- 23P0, 25P0, 45P0</i>	4	M4 x 0.70, 30 mm long	Fan (secure to metal)
<i>GS3- 43P0</i>	2	M4 x 0.70, 20 mm long	Fan (secure to metal)
<i>GS3- 27P5, 2010, 2015, 47P5, 4010, 4015</i>	8	M4 x 0.70, 5 mm long	Case Halves and Fan Bracket to case
	4	M4 x 0.70, 30 mm long	Fan (secure to metal)
	4	M5 x 2.0, 12mm long	Fan (secure to plastic)
	1	M5 x 2.0, 10mm long	Ground Screw Anodized Green
<i>GS3- 2020, 2025, 2030, 4020, 4025, 4030</i>	6	M4 x 0.70, 30 mm long	Fan (secure to metal)
	2	M5 x 2.0, 12mm long	Fan (secure to plastic)
<i>GS3- 2040, 2050, 4040, 4050, 4060</i>	4	M4 x 0.70, 5 mm long	Fan Drawer
	4	M5 x 2.0, 12mm long	Fan (secure to plastic)
<i>GS3- 4075, 4100</i>	6	M5 x 2.0, 8mm long	Fan Drawer and Fan (secure to metal)