ACH580-01 PxR, UL Type 1/12 Frame R1/R2

Base drive replacement instructions

Purpose or Scope

The following are the instructions for replacing an ACH580-01 UL Type 1 & 12 (Frames R1 & R2) drive in PxR enclosures.

Equipment required*:

- Replacement drive (see note below)
- T20 bit
- T30 bit
- PZ2 bit
- PZ3 bit
- Torque wrench
- Zip ties

Basic overview of steps

- Back-up drive parameters (if you can)
- Remove power and verify after 5 minutes
- Open enclosure
- Disconnect all wiring
- Remove flange plate
- Remove drive
- Prepare replacement drive
- Remove conduit assembly
- Install in reverse order
- Check connections
- Power drive
- Reprogram and test

Notes and cautions



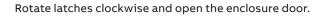
CAUTION! Review complete safety and electrical considerations prior to replacing the drive. See ACH580 IOM (3AXD50000049127).

CAUTION! Two people are recommended for this job. The drive is heavy and can fall, causing property damage and injury.

NOTE: UL Type 12 drives require a UL Type 12 replacement drive, UL Type 1 drives are not allowed as substitutes for UL Type 12.

* Not all of these tools are needed for each frame size.

tep	Instruction	Diagram
	NOTE: If needed, back-up parameters prior to disconnecting power.	
	Turn off source power and wait 5 minutes for the DC bus capacitors to discharge.	ABB
	Turn handle to the off position.	
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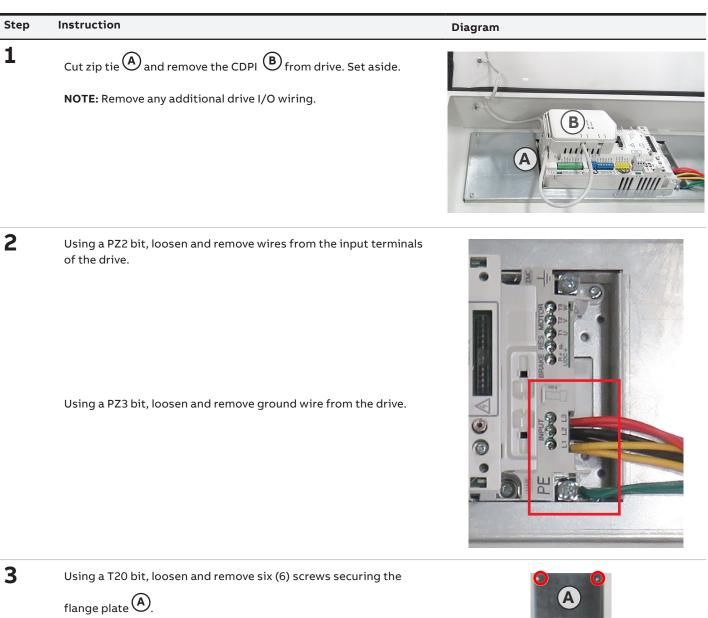




Perform voltage check to confirm no voltage is present.

NOTE: If you have control wiring connected to the control unit, disconnect at this time.





Save hardware.



Step	Instruction	Diagram
4	Using a T30 bit, loosen the four (4) M6 screws securing the drive, four (4) turns of the screw.	
	NOTE: Do not remove the screw completely. Only loosen enough to be able to lift the drive off the screws.	A server - 2000 M
	Carefully push the drive up, lift the drive off of the screws and out of enclosure.	

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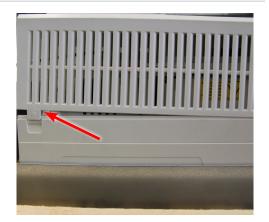
Unpack the replacement drive.

UL Type 12: UL Type 12 drives require a UL Type 12 replacement drive, UL Type 1 are not allowed as substitutes for UL Type 12.

Remove drive cover by pushing up on the sides as indicated by arrow.

Recycle drive cover.

UL Type 12: Recycle the hood that was included in the box and the drive cover that was removed.



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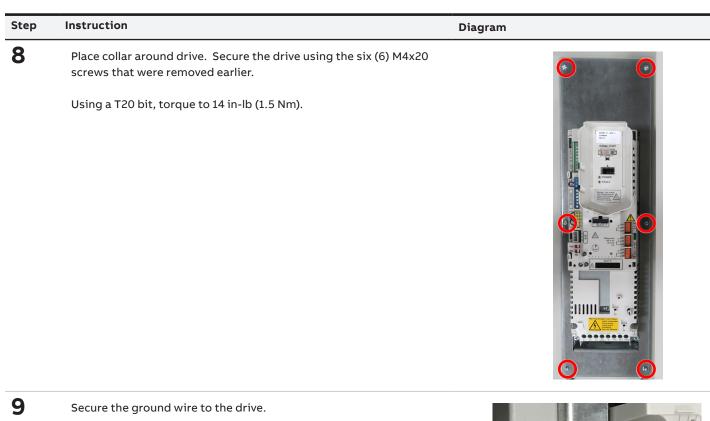
Step	Instruction	Diagram
6	Using a T20 bit, loosen and remove two (2) M4x8 screws. Remove conduit assembly. Recycle the conduit assembly and hardware.	VAR DE INPUT BRAKE RES MOTOR BRAKE RES MOTOR

Slide the drive mounting holes over the four (4) screws and slide drive in place.

CAUTION! Use two people to install the drive.

Torque all four (4) mounting screws to 27 in-lb (3 Nm).





Using a PZ3 bit, torque to 14 in-lb (1.5 Nm).

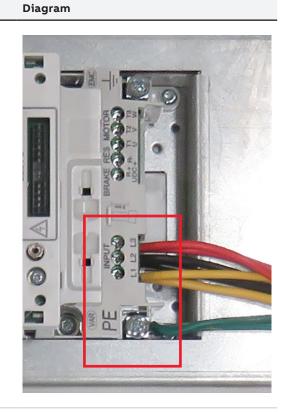


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Connect the input wires (from fuse block) to the input terminals of the drive.

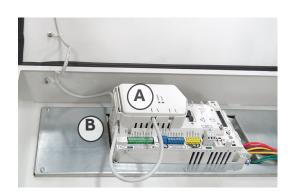
Yellow U1 to L1 Black V1 to L2 Red W1 to L3

R1 Frame: Using a PZ2 bit, torque to 5 in-lb (0.5 Nm). **R2 Frame:** Using a PZ2 bit, torque to 14 in-lb (1.5 Nm).



11 Re-install the CDPI (A) into control unit and secure with two zip ties (B).

Reconnect any control wiring removed in steps 3 and 4.



12 Close the door and rotate latches counterclockwise.



Step	Instruction	Diagram	
13	Power and reprogram the drive.		
14	Test and verify drive operation and motor directi	on.	
15	Back-up and save parameters to the keypad prior back into service.	to putting the drive	