

UDC3300 TECHNICAL TIP

3PSTEP Motor Tests

Motor Wiring Test

- Check the wiring section of the product manual for proper motor wiring
- Turn off power to motor and controller.
- Loosen screw located below INCREMENT "□" and DECREMENT "□" keys and remove the controller from the case.
- Record model number off chassis
- **To test motor opening**
 - Model number **DC330X-EE-XXX-XX-XXXXXX-XX-X**
 - Short Terminals 2 and 3 on rear of controller case
 - Model number **DC330X-KE-XXX-XX-XXXXXX-XX-X**
 - Short Terminals 5 and 6 on rear of controller case
 - Turn on power to motor and controller case
 - The motor should drive toward the open position
 - Turn off power to motor and controller case.
 - Remove short from Terminals
- **To test motor closing**
 - Model number **DC330X-EE-XXX-XX-XXXXXX-XX-X**
 - Short Terminals 5 and 6 on rear of controller case
 - Model number **DC330X-KE-XXX-XX-XXXXXX-XX-X**
 - Short Terminals 8 and 9 on rear of controller case
 - Turn on power to motor and controller case.
 - The motor should drive toward the closed position
 - Remove short from terminals
 - If either test *fails*, correct motor wiring.
 - If tests *pass*, motor wiring is ok

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3PSTEP Motor Tests Continued

Controller Manual output test

- Configure as follows
 - Press **SETUP** key until **ALGOR** appears in lower display
 - Press **FUNCTION** key until **CTRALG** appears in lower display
 - Press **INCREMENT** "□" key until **3PSTEP** appears in top display
- Press **LOWER DISPLAY** key to exit configuration mode

Controller Manual output test

- Press **MANUAL/AUTO** key to place controller into manual mode.
 - "MAN" lit up in display.
- Press and hold in **INCREMENT** "□" key.
 - The "1" should light next to "OUT" on the display.
 - The motor should drive open.
- Press and hold in **DECREMENT** "□" key.
 - The "2" should light next to "OUT" on the display.
 - The motor should drive closed.
- If either test **fails**
 - Check configuration.
 - If configuration is OK, then output card is bad
- If tests **pass**, motor wiring and configuration is ok
- Place controller in **AUTO** mode