



Serial Numbers TM80-022 through 800208 and TM120-001 through 120112

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Product Bulletin # Wrench 015

Replacing Non-Hazardous Area Rated Circuit Breaker in the Driller's Console

The Torq-Matic™ Automated Floor Wrench driller's console (AY50146) is intended to be suitable for use in a Class 1, Division II area, per NEC standards.

It has come to Canrig's attention that the 1-amp circuit breaker installed on the driller's console is not rated for a hazardous area, and therefore must be replaced if the console is located in a hazardous area.

Recommendation

Remove the circuit breaker (E12126) and terminal (E12448) from the driller's console, and replace them with a Class 1, Division II-rated DIN-rail mounted circuit breaker.

Required Tools

- Flat head screwdriver
- Wire stripper
- Wire crimper
- Digital multi-meter

Required Parts

Driller's Console, Field Upgrade Kit (AY51010)

Qty	Canrig Part ID	Description
1	E17994	Breaker, Mini, 24v, 1 Amp, sealed
1	E13696	18" Cable, 1 C #16 Awg, 19 Strands, 600v, blk
1	E10376	Ferrule, #16 Awg, Double, Ins, Red
1	E16-2018-010	Ferrule, #16 Awg, 14mm, Ins, Red

Replacement Procedure



This procedure should be performed only by trained and qualified personnel.

Follow appropriate lock-out/tag-out procedures prior to opening the driller's console.

1. Open the driller's console.
2. Determine the load side of the current breaker by tracing the wire coming from terminal 19 back to the breaker (see Figure 1), and make note of its location.

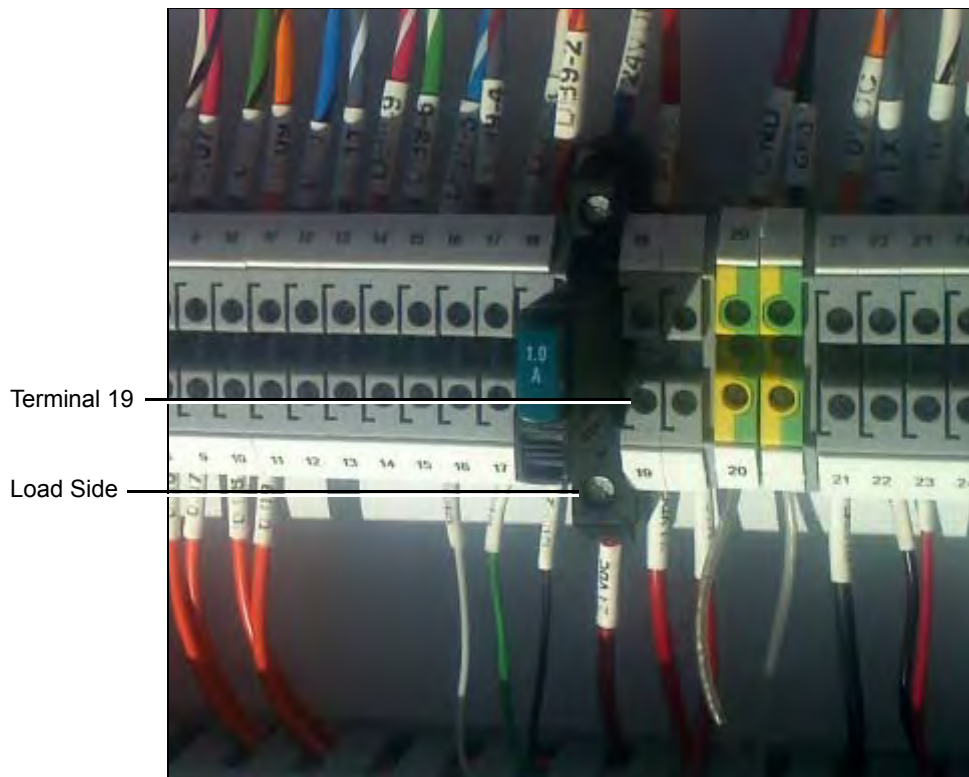


Figure 1: Locating the Load Side of the Breaker

3. Remove the terminal and breaker using a flat head screwdriver.
4. Loosen the end barrier for the terminal blocks and slide them down approximately 1/4" (see Figure 2).



Figure 2: Circuit Breaker Removal

5. Remove wire 0V.d2 from terminal 21 and cut the existing ferrule.
6. Re-strip the 0 VDC wire and 16 AWG that came with the kit.
7. Crimp the two together with the double ferrule and reinstall the wires into terminal 21 (see Figure 3).

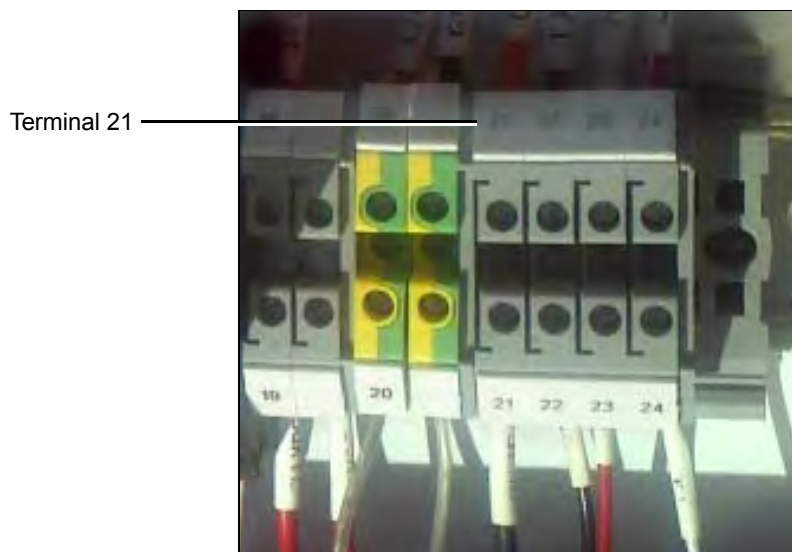


Figure 3: Terminal 21 (before 2nd wire is installed)

- Install the other end of the loose wire supplied with the kit to the 0 V DC connection on the circuit breaker (Figure 4).

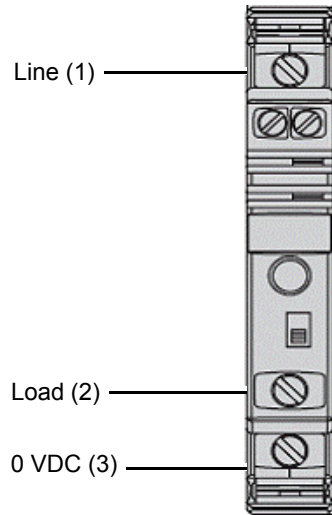


Figure 4: Circuit Breaker Connections

- Use Figures 4, 5, and 6 to complete wiring to the new circuit breaker.

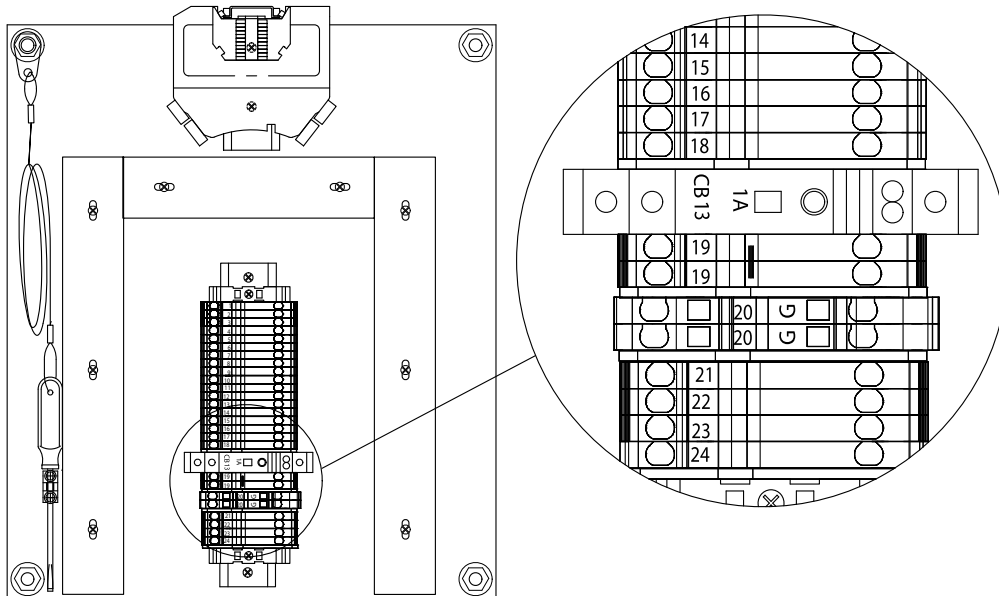


Figure 5: Terminal Strip Layout

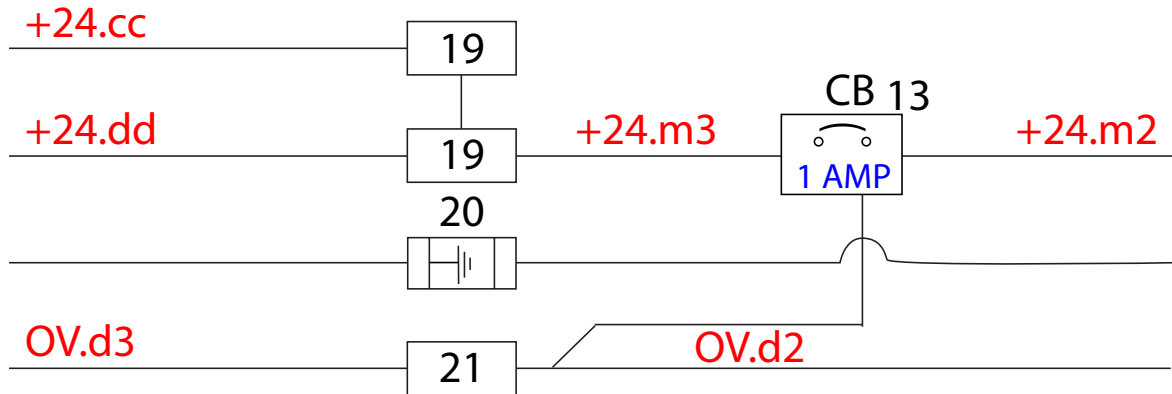


Figure 6: New Wiring Schematic