

RCM500 - 18V DEWALT MOTOR MOUNT



KIT CONTAINS:

- Transmission mount
- Fastening screws
- Low-speed locking ring

INSTRUCTIONS

1. Before screwing the black transmission to the mount or the motor you will need to lock the internal yellow speed gear in place.

For **high** speed operation: disassemble the transmission and flip the yellow gear around. The low speed locking ring is not used.

For **low** speed operation: disassemble and install the ring in the gap between the yellow gear and the motor end of the transmission.

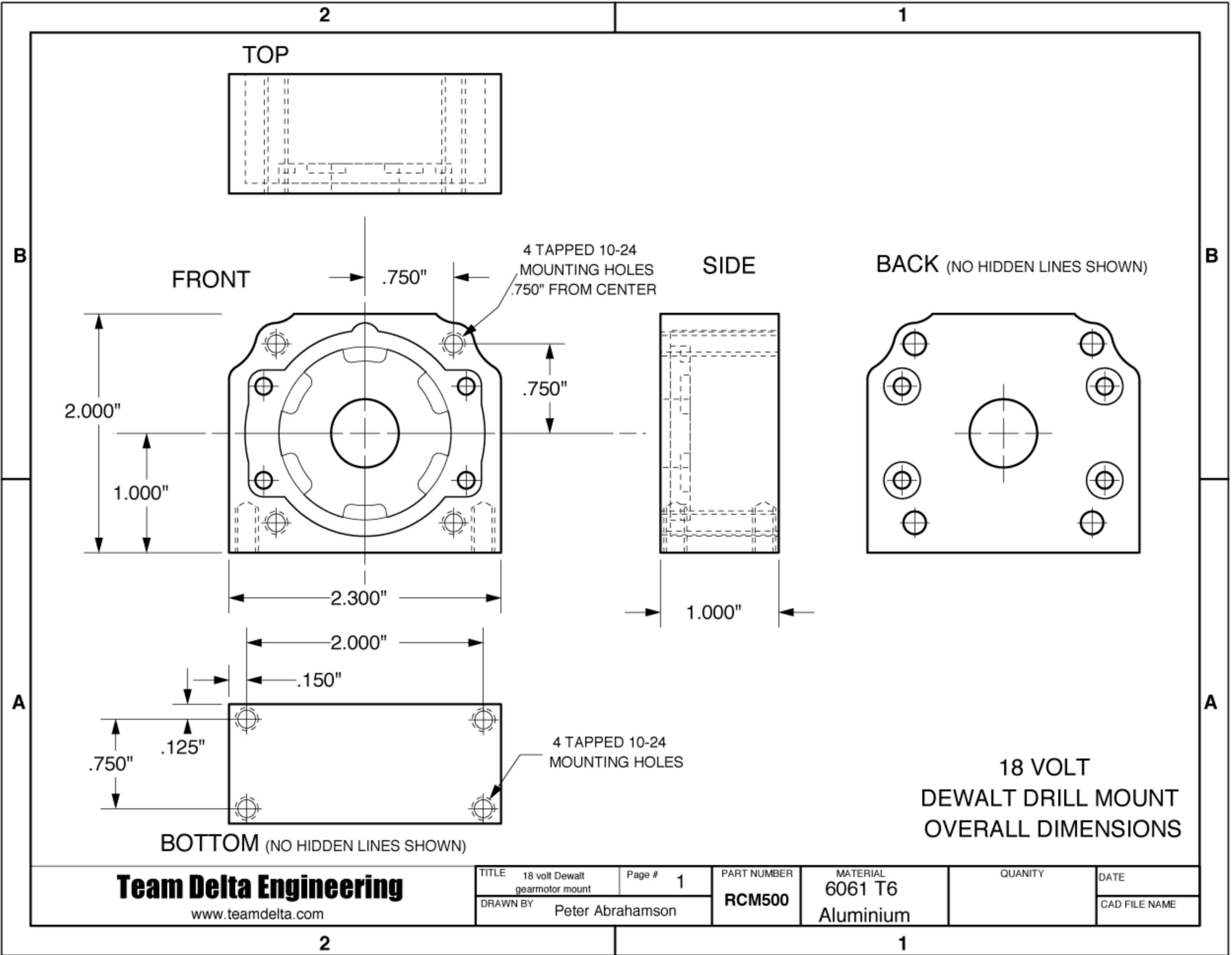
2. Optimal mounting of the plastic transmission to the RCM500 is through the use of the four 6-32 flat head screws (included.) Use a 2-flute 6-32 tap on the four existing holes to cut some threads. A simpler (but possibly weaker) approach is to use #6 sheet metal or wood screws and dispense with the tap altogether.

3. The black transmission makes a snug fit with the RCM500. This is on purpose as the mount structurally reinforces the plastic. There is no top or bottom, just press the transmission in straight. At some point you will not be able to press it any further by hand so light tapping on the face of the RCM500 with a dead-blow mallet is acceptable. The output coupling will be flush with the face when it is completely seated.

4. Install the screws, being careful not to over-tighten them and strip the plastic.

5. When mounting this new assembly in your robot, you may want to affix the overhung motor in some way to tolerate high impact loads. A cheap and easy solution is to just slide a chunk of wood beneath the motor body and secure it all down with a steel hose clamp.

That's it - have fun!



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DRAWN BY	Peter Abrahamson			RCM500	6061 T6 Aluminium		CAD FILE NAME