Programming an RTS Connect Tool from the Backcap

The RTS Connect Tool can be programmed for a basic strategy using the tool backcap. There are eight programmable Psets and four programmable parameters per Pset available from the backcap: Direction, Batch Count, Torque Level, and Flush Level.

1. Plug the battery into the tool. You will see the following screen showing the current Pset and Direction.

2. Press the button to the right of the Pencil icon to enter the edit mode and to begin programming the tool. You will see the following screen.

3. The highlighted field is the field that can be edited. Use the buttons next to the + or – icons to scroll to the desired value. The following screen shows that Pset 3 has been selected (P3).

4. Press the button next to the Navigation icon to move to the next field. You will see the following screen with the Direction field highlighted. The Direction was changed to CCW using the buttons next to the + or – icons.

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5. Press the button next to the Navigation icon to move to the next field. You will see the following screen with the Batch Count Field highlighted. The Batch Count was set to 4 using buttons next to the + or - icons.

6. Press the button next to the Navigation icon to move to the next field. You will see the following screen with the Torque Level Field highlighted. The Torque Level was set to 5 using buttons next to the + or - icons.

Torque Level Setting (T1 – T40) – This setting is the duration after flush point detection during which the tool delivers pulses of torque to the fastener before automatically shutting off. There are 40 options to choose from, so that the tool's delivered torque may be best aligned with the torque that the application requires.
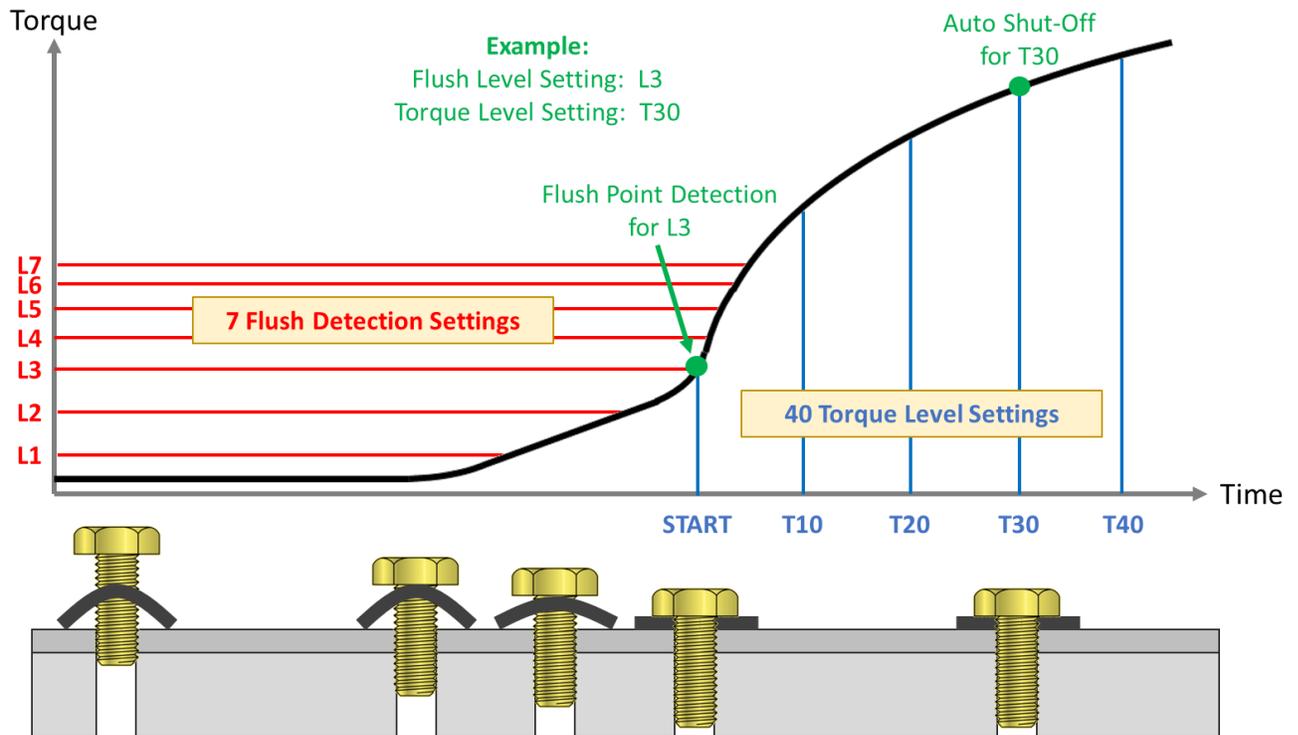
Example:
Flush Level Setting: L3
Torque Level Setting: T30

7. Press the button next to the Navigation icon to move to the next field. You will see the following screen with the Flush Level field highlighted. The Flush Level was set to 3 using buttons next to the + or - icons.

Flush Level Setting (L1 – L7) – This setting is the level of sensitivity used for determining when the flush point has been reached. Since all joints are different, there are 7 options available to choose from, so that the tool's determination of flush point may be best aligned with the actual joint behavior.

L1 - L2 have the lowest sensitivity and are the least discriminating to reach. They are best for hard joints and joints that reach the snug point immediately following the completion of rundown.

L3 – L5 have medium sensitivity. They are best for softer joints and joints that involve drawing parts together.

L6 – L7 have the highest sensitivity and are the most discriminating to reach. They are best for joints that must overcome high prevailing torque prior to arriving at the snug point.
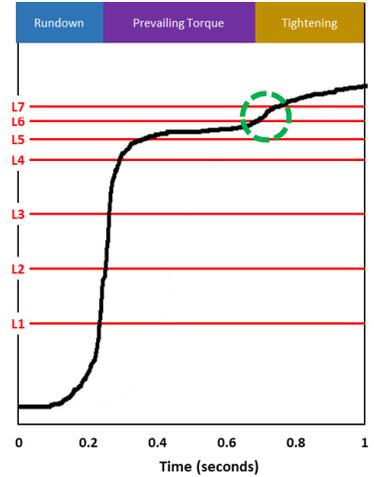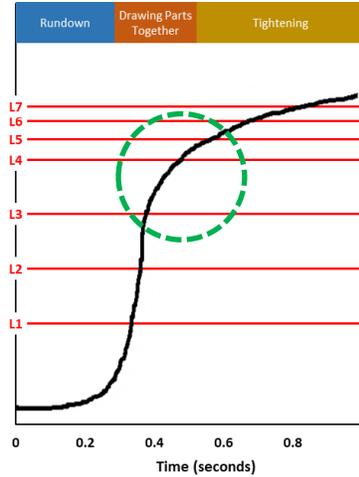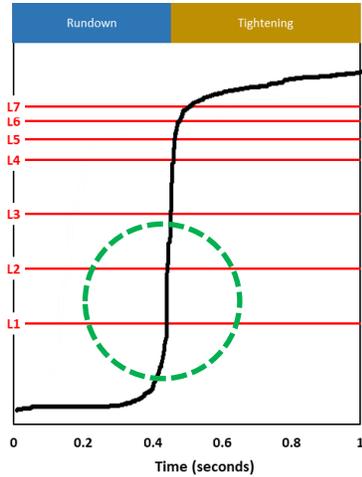
8. After adjusting all parameters, press the button next to the check icon save the changes. The screen will return back to the Home Screen.

9. Press the button next to the right arrow icon to select the desired Pset. The following screen shows Pset 3 with Batch Count = 4 and CCW Direction.