1: Prior to driver approaching tower, extend arm so arm pawls are above lowest corner.

Button Unlocks when arm position is 17 inches

2: Approach tower and align clamp with tower leg. Use DPAD buttons to close and open clamp as necessary to lock on.

Button Unlocks when clamp is closed

3: Robot is lifted so that top static pawls are clear of 1st rung.

Button Unlocks when arm position is 32.5 inches

4: Robot is lowered so that top static pawls engage 1st rung.

Button Unlocks when arm position is 29.2 inches

5: Shooter manually lowers TARF until TARF is in-line with BARF

Button Unlocks when limit switch on TARF engages, indicating TARF is fully lowered

6: Robot is lifted so that bottom static pawls are clear of 1st rung.

Button Unlocks when arm position is 39.3 inches

7: Robot is lowered so that bottom static pawls engage 1st rung.

Button Unlocks when arm position is 35.5 inches

8: Arm extends until arm pawls clear 2nd rung.

Button Unlocks when arm position is 0.6 inches

9: Robot is lifted several inches.

Button Unlocks when arm position is 7.5 inches

**VISUALLY CONFIRM** both arm pawls are engaged on corner

10: Clamp opens.

Button Unlocks when both reed switches on clamp are engaged

**VISUALLY CONFIRM** clamp is open before proceeding

11: Robot is lifted until opened clamp clears the corner.

Button Unlocks when arm position is 21.5 inches

12: Clamp closes.

Button Unlocks when both reed switches on clamp are engaged

**VISUALLY CONFIRM** clamp is closed before proceeding

13: Robot is lifted so that top static pawls are clear of 2nd rung.

Button Unlocks when arm position is 39.3 inches

14: Robot is lowered to engage top static pawls and bottom arm pawls are clear.

Button Unlocks when arm position is 27.2 inches

15: Robot is lifted so that bottom static pawls are clear of 2nd rung.

Button Unlocks when arm position is 39.3 inches

16: Robot is lowered to engage bottom static pawls and arm extends to 3rd rung

Button Unlocks when arm position is 0.6 inches

17: Robot is lifted several inches.

Button Unlocks when arm position is 7.5 inches

**VISUALLY CONFIRM** both arm pawls are engaged on corner

18: Clamp opens.

Button Unlocks when both reed switches on clamp are engaged

**VISUALLY CONFIRM** clamp is open before proceeding

19: Robot is lifted until opened clamp clears the corner.

Button Unlocks when arm position is 21.5 inches

20: Clamp closes.

Button Unlocks when both reed switches on clamp are engaged

**VISUALLY CONFIRM** clamp is closed before proceeding

21: Robot is lifted so that top static pawls are clear of 3rd rung.

Button Unlocks when arm position is 39.3 inches

22: Robot is lowered so that top static pawls are engaged.

Button Unlocks when arm position is 34.5 inches