



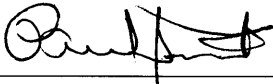


CRANE NATIONAL VENDORS

FACTORY TEST PROCEDURES HOT DRINK CENTER - FINAL TEST

PURPOSE: The purpose of this qualification test is to ensure the mechanical and electrical operation, and physical appearance of the Hot Drink Center merchandiser.

ASSEMBLY AFFECTED: Hot Drink Center/Euro Drink merchandiser, model 633/634/635/636/637









USAGE: This procedure is used to fill out the Hot Drink Center inspection sheets, part number 6330007.

REVISION DATE:	
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PRE - PRODUCTION TEST













NOTE:










The bean window light must be installed and connected prior to hi-potting.


1. Perform the continuity/dielectric test. This test must be performed and successful before continuing further in this test.
2. Install the water filter.
3. Install the coin mechanism and/or the test coin mechanism or test validator as required at this time. If the unit is foreign, do not install a coin mechanism. Load the coin mechanism with 4 quarters, 4 dimes, and 4 nickels.
4. Connect the water line to the machine and plug in the unit.
5. Turn the machine on. The display may or may not read anything at this time.
6. Press and hold .
7. While holding, press . The display reads **PROD TEST**.
8. Press . The display reads **VER - - - -**. This is the software version.
9. Press . The display reads **CLEAR ALL**.
10. Press and hold . The display reads **CLEARING**. This clears the RAM and will read **FINISHED** when complete.
11. Press . The display shows **CONF XXXX**. Use the selection pad and enter the correct configuration code from the configuration code sheet.
12. Press . The display shows **COUNTRY US**. Use  to select the country of destination.
13. Load the cup turret(s) with a minimum of 20 cups each. Load the turrets in such a way that the turrets will have to advance. Install the filter paper option.





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14. With the door open, the service light and door light should both be illuminated at this time.
 15. Press and hold the cabinet interlock switch. Verify that the exhaust fan (optional) is operating, that the bean window light is on, and that the service light goes out.
 16. Press the monetary door switch and verify that the cup turrets index and cups fall properly into the cup rings. If the unit is foreign and the cabinet interlock switch is at the center position, the service light and door light should both be illuminated.
 17. Pull the interlock switch out to the ON position. The service light should go out, the exhaust fan should operate and the bean window light and door light should both be illuminated.
 18. Verify that all canisters are installed and correct. Check that canister labels are correct.
 19. Check the money box for proper fit.
 20. Visually check the machine for any damaged or missing parts. Make note of this on work in process hold form.
 21. Compare the work order to the machine. Verify that the machine is built and equipped as ordered.

PRODUCTION TEST

1. Press . The display shows **DOOR OFF**. Use  to select.
2. Press . The display shows **DUMB MECH**. Use  to select.
3. Press . The display shows **NO VALDTR**. Use  to select.
4. Press . Use  to select the day of the week. Use the selection pad to enter the correct time in 24 hour format.
5. Press . Use  to select the correct month. Enter the correct date and year.
6. Press . The display shows **DISPLY TST**. Use  and check that all display segments are illuminated at this time.



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7. Press each key on the maintenance keypad. The number of the key will be displayed. Press  to blank the display. Check for any characters illuminated. Check all keys on the selection pad.
8. Press . The display shows **CUP TEST**. Press  to drop one cup from each position.  and  control the individual rings. Adjust the rings as necessary. Drop a minimum of 3 cups from each ring when adjustments are complete.
9. Press . The display shows **DOOR TEST**. Use  to check that the automatic delivery door opens and closes correctly. Adjust if necessary.
10. Press . The display shows **WHIP TEST**. Use the selection keypad to check each whipper (1 - 4) right to left.
11. Press . With the machine low on water, cups installed, and the waste pail empty, the display should read **IN - - - - L - -**. The numbers shown represent the 7 positions in this display. They are defined as follows:
- Position 1: Mug switch. If the machine is so equipped, actuating the mug switch will cause the - to be replaced by an *M*.
- Position 2: Key switch. If the machine is so equipped, actuating the free vend key switch will cause the - to be replaced by a *K*.
- Position 3: Waste pail. Raising the waste pail float will cause the - to be replaced by a *P*.
- Position 4: High level switch. If the water tank is full, the display will show **IN - - - - H - - -**. If the *H* is already displayed in position 4, drain water from the water tank and observe the display to see the three (3) states of the float: As water is being drained, the *H* is replaced by a - . As water continues to drain, the - at position 5 will be replaced by an *L*. Once the *L* appears, stop draining water and allow the tank to refill.
- Position 5: Low level switch. If the water tank is not filled with water and the *L* is still displayed, watch the transition from low water to full. The display will then show **IN - - - - H - - -**.



12. Press . The display shows **AUGER TEST**. Use the selection keypad to select the desired auger. Verify that all product augers and canisters function.


13. Press . The display shows **COND TEST**. Check the augers as follows: Press  to check sugar,  to check lightener, and  to check sugar sub.

NOTE

If a freeze dry machine is under test, skip steps 14 through 19.

14. Press . The display shows **AIR TEST**. Press  to check that the air compressor functions. Pinch the tubing between the "Y" and the barrel, and adjust the air pressure to 10 - 12 psi. (while pinched).




15. Press . The display shows **BREW TEST**. Press  to check brewer operation. Place the brewer in the brew position.


16. Press . The display shows **SET GRIND**.










17. Prior to checking the grinders for proper function, insert the gauge and verify the correct grinder setting. Remove the coffee canisters and install the test bean canisters.

NOTE

Grinders that are set properly with the gauge do not require and should not be changed to vary the gram throw.






18. Press . The display shows **DRY A**. Press . Dry product 1 and its grinder will operate. Check that the canister functions properly and the grinder operates. Capture the grounds in a cup to check for proper bean grind. Check for excessive grinder noise and check to see if the grinder is rubbing the side panel. Press 

and repeat the tests for grinder 2. Press  when complete.

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19. Press . The display shows **BREW RINSE**. Press . The brewer will cycle, the filter paper will advance, and the brewer will clamp. Watch (as the air compressor runs) for leaks around the brewer barrel. When the brewer cycles, check that the filter paper does not travel in reverse.
20. Press . The display shows **TEMP 150**. If the water temperature is at least 150° F, adjust the valves.
21. Once the tank is hot, verify that the clamps on the water inlet line (at the tank lid and inlet water valve) are tight. Tighten the clamps as necessary to prevent leakage.
22. Press . The display shows **SET VALVE**.
23. Press . The display shows **VALVE 1**. Press  to do a test throw and calibrate. Make a minimum of three test throws per valve. Press  to select the other valves. Adjust the following valves to these amounts, $\pm 5\text{cc}$:
- | | |
|---------------------|-----------------|
| Valve 1 - 220/200cc | Valve 4 - 180cc |
| Valve 2 - 220/200cc | Valve 5 - 180cc |
| Valve 3 - 200cc | Valve 6 - 170cc |
24. Press . The display shows **SET VALVES**. Try to insert one \$1 bill; the bill should not be accepted. Insert two coins of any denomination. They should not be accepted.
25. Press . The display shows **TEST. 00**.
26. Insert 2 quarters, 3 dimes, and 4 nickels for a credit of \$1.00. Press the coin return. Verify the correct change is returned (2 quarters, 3 dimes, 4 nickels).
27. Insert 1 \$1 bill for a credit of \$1.00, then press the coin return. One of two things will happen:
- If a serial validator is installed, the dollar bill will be returned and credit cancelled.
 - If a pulse validator is installed, the dollar bill will be stacked and the coin mechanism will attempt to pay out a dollar in coins.

NOTE

If the machine is equipped with Debittek, DEX, printer, or any other option, those options must be verified functionally before signing off the machine.

28. Press . The display shows **LANGUAGE**. Press  to select the language for the destination country. Press .
29. If a foreign machine is under test, connect the exec simulator and verify the simulator display reads **COMM**.
30. Install the cup catcher in the machine. Adjust the mug sensor accordingly (optional)
31. Press , then close and lock the cabinet door. Check the alignment of the cabinet door to the machine as well as its proper function. Manually verify the operation of the delivery door. Check the alignment of the cup station to the cup catcher.
32. With the cabinet door closed and the machine set to TEST, insert one \$1 bill, 2 quarters, 3 dimes, and 4 nickels for a credit of \$2.00. (If the machine has no validator, substitute 2 quarters, 3 dimes, and 4 nickels for the dollar bill.)
33. Make a small buy from the "F" selection. Verify that the selection performs correctly. Verify the **DRINK BEING SERVED** light functions (634/636 only). \$0.90 in change should be returned. Verify that the correct change is received and falls properly into the coin cup.
34. If the machine is equipped with an optional mug sensor, insert your dark mug and make a selection. Verify the display shows that a mug is "seen".
35. Open the cabinet door and view any diagnostic messages. Correct any errors that are listed.
36. Press , then close and lock the cabinet door. Vend selection A3. Confirm that the machine functions properly. Open the door to gain access to the maintenance keypad, and repeat this step two more times.
37. Remove the cups from the cup drop, filter paper, etc.
38. Payout the remaining coins in the coin mechanism. While paying out, verify that the correct coin pays out for the key pressed.
39. Check the money box and remove any coins.
40. Remove dollar bill(s) from the validator.

41. Remove the test coin mechanism and test validator as required.

42. Disconnect the water line and remove the water filter.

43. Confirm that the shutoff valve is open. Go to the **TANK . FILL** screen and press



to activate inlet valves and allow them to drain. After 30 seconds, press



. Close the shutoff valve.