



MERCHANDISING SYSTEMS™ A Crane Co. Company



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SUBJECT: SOFTWARE REVISION 160.07

This software has been revised and the revision upgrades the motor test procedure. The following explains how to use this feature.

MOTOR TEST VERSION 160.07

1. Press and **HOLD** the “*” key and press the “#” key. The display should show version (160.07)
2. Press the “*” key until the configuration is shown i.e.(**CNF.SHACK**)
3. Press the “*” key one more time and the unit quickly looks at all motors detected. A, B, C, D, E, F, & H’s are quickly displayed.
4. Once the unit is through scanning the motors, the display will show **XXHOME**. **XX** represents the number of motors that has been detected in the home position. At this point you have several options:
 - (A) Press the “J” key and all motors in the machine will be tested (starting with A0).
 - (B) Press the “H” key, this takes you to the first tray in the machine.

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- (1) Press the “J” key and all motors on the first tray will be tested.
 - (2) Individual motor test can be done by pressing A0, A1, etc.
 - (3) Press the “*” key and this will step you to the next tray.

(C) By pressing the “A” through “F” key will take you directly to that specific tray. If you press the “J” key after reaching a specific tray, this will test the entire tray (starting with the X0 selection). You may also individually test a motor on that tray by pressing its number (i.e. J2) and J2 will be the only motor to run.

Cabinet library changes:

- Change factory motor tests to ease diagnostics and add count of motors to the test.
 - Add diagnostic **HOME.SNS xx** for error where a motor sensor line idles in an incorrect state. 0x indicates error in snack matrix; x0 indicates error in can matrix.
 - Changes to **TEST MTRS:**
Press “J” **KEY** to interrogate motors. Display will stop at first motor with a known error or will show total number of home motors and total of empty can motors.
TEST MTRS, when running motors, will stop at any motor in error. New diagnostic messages are added:
QUK.CYCL id – motor cycles through its positions too quickly. It is probably shorted;
CPL.ERR id -- for unresolved electronically coupled motor;
TEST id – motor failed. Test individually.
TIMEOUT id – motor did not leave home or reach home in expected time (jammed?)
 - Add the following Explanatory messages to Food related diagnostics:
FOOD 1. 2. * TIMEOUT (* flashing. Jammed door)
FOOD 1. 2.3. BOTH SW.2.+3. (2 flashing – door seen as open and closed)
FOOD 1. 2. NO SHUT SW.3 (3 position flashing—could not find closed position)
FOOD 1. 3. NO OPEN SW.2 (2 position flashing—could not find open position)
FOOD _ 3. AUX.DR OPEN (1. Position flashing – loading door is open)
FOOD 1. _ NOT SHUT (3 position flashes – not in shut position)
 - (**DE1A-DEX library**): Improve auto-DEX with Rutherford and Compuvend handhelds
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