

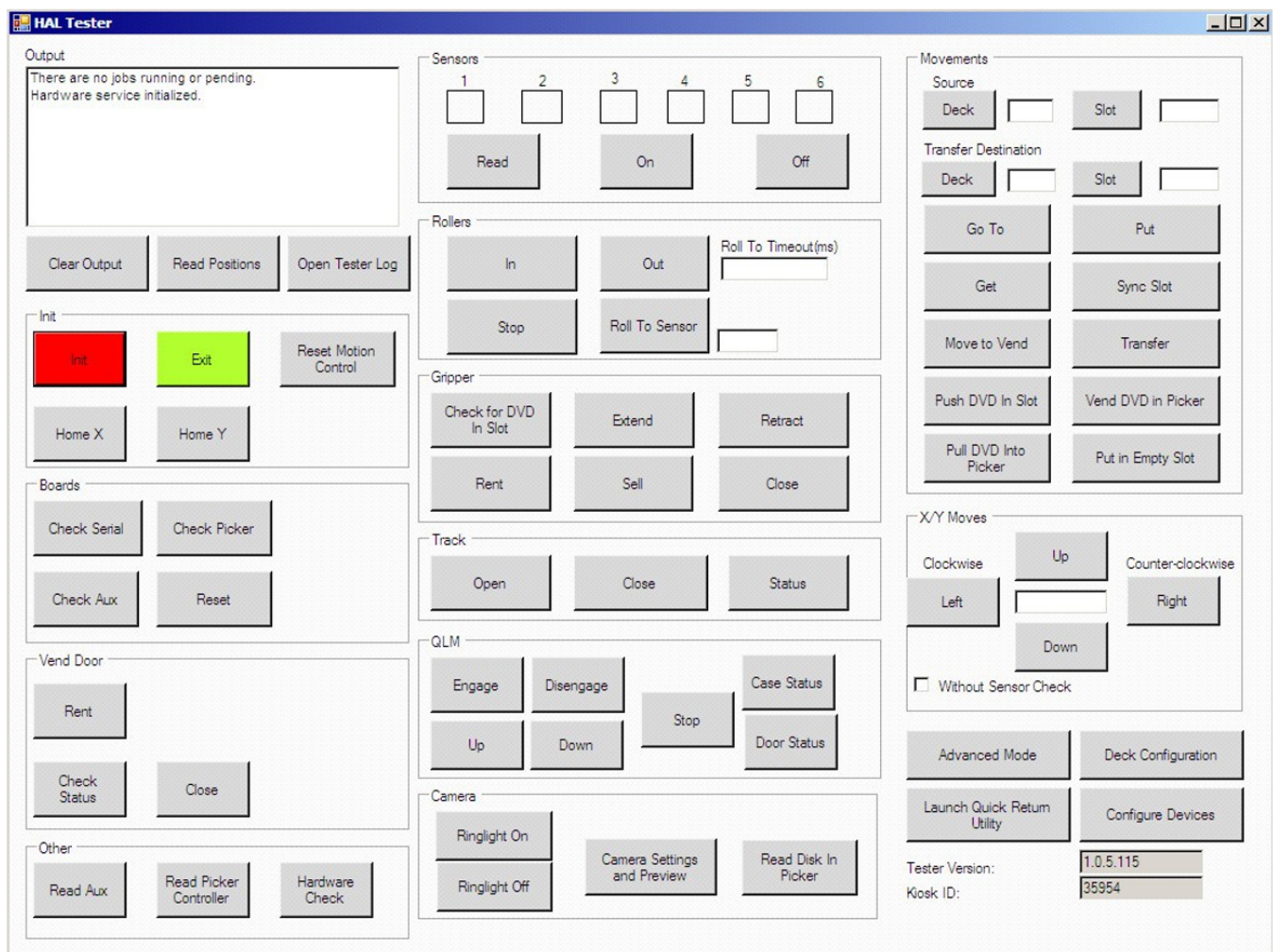
TSB---HAL-Init-Process

 Sayali Kothari
Contractor

Date Issued: 04/08/2011

Date Updated: 08/23/2011

Description: This is a breakdown of the init job and processes.



HAL Tester

Output
There are no jobs running or pending.
Hardware service initialized.

Init
Init **Exit** **Reset Motion Control**
Home X **Home Y**

Boards
Check Serial **Check Picker**
Check Aux **Reset**

Vend Door
Rent
Check Status **Close**

Other
Read Aux **Read Picker Controller** **Hardware Check**

Sensors
1 2 3 4 5 6
Read **On** **Off**

Rollers
In **Out** **Roll To Timeout(ms)**
Stop **Roll To Sensor**

Gripper
Check for DVD In Slot **Extend** **Retract**
Rent **Sell** **Close**

Track
Open **Close** **Status**

QLM
Engage **Disengage** **Stop** **Case Status**
Up **Down** **Door Status**

Camera
Ringlight On **Ringlight Off** **Camera Settings and Preview** **Read Disk In Picker**

Movements
Source **Deck** **Slot**
Transfer Destination **Deck** **Slot**
Go To **Put**
Get **Sync Slot**
Move to Vend **Transfer**
Push DVD In Slot **Vend DVD in Picker**
Pull DVD Into Picker **Put in Empty Slot**

X/Y Moves
Clockwise **Up** **Counter-clockwise**
Left **Right** **Down**
☐ **Without Sensor Check**

Advanced Mode **Deck Configuration**
Launch Quick Return Utility **Configure Devices**

Tester Version: 1.0.5.115
Kiosk ID: 35954

Init Job Script

1. INIT START- Init script waits for the COM ports to come up. The time it waits is controlled by the controller option COMPortInitSleepTime. In Fisher, the will only happen during the bootstrap init.
2. RESET CONTROLLERS- Resets three system boards (Picker Controller Board, Auxiliary Board and Serial Board). The main reset led on the Picker Controller Board will blink and then turn off.
3. GET VERSION INFO- Gathers version stamp from each board
4. SET START STATE- Gathers information about the current state of the machine such as sensors that are triggered.
5. TEST TRACK- Communicates with picker controller board to check track status (tests track open and close).
6. CLOSE VEND DOOR IF OPEN- Communicates with auxiliary board (tests to see if vend door is closed).
7. TEST GRIPPER- Tests all gripper movement (calls gripper retract, followed by gripper open/close/rent)
8. CHECK PICKER STATUS- Sees if picker is EMPTY or FULL. If FULL step 9 is bypassed and continues with step 10.
9. CHECK ROLLERS- Tests the picker sensors and rollers (sensor picker-on, roller in, wait 2000 ms, roller out, wait 2000 ms, roller stop and sensor picker off).
10. CHECK RINGLIGHT- Tests the ring light(ring light on, wait 2000, ring light off)
11. CHECK OBSTRUCTIONS- Tries to ensure gripper is clear. If sensors 1 or 6 are triggered, it may try to put a DVD back into the slot or bring the DVD back into the center of the picker to continue with initialization.
12. HOME X MOTOR- Rotates drum until the flag trips the sensor twice. In Fisher, the two rotations will be a move of 200 units off the home flag to ensure 1 full rotation if it was originally at home.
13. HOME Y MOTOR- Moves to home y sensor to zero out the picker.
14. MOVE TO VEND- Moves picker to vend position.
15. CheckPickerStart- Checks to see if something needs to be put away and if so puts it away.
16. CheckPickerStop- If the picker is empty the check picker script ends.
17. Init Stop- Init script ends

Tools/Parts Needed:

Associated TSB's:

Owner

Department

Created by: Karla Benitez

Machine Support

Published by: Steve Demunster

Machine Support

Revision#	Date	Description
0.0	04/08/2011	Original Release
0.1	8/23/2011	HAL
0.2	2/8/2012	Minor word adjustment

Report Out-of-Date Content

