

S3C Case Controller Site Functional Performance Test

Store Number:

Case ID:

Use checkbox along left side (✓ denotes test passed)

STEP 1 – CONNECT DISPLAY CASE TO THE APP	
Expected Results	If Expected Results Are Not Seen
Wireless icon on Display Module starts flashing, then goes solid when app connects	Ensure Display Module is powered on and retry holding Down Arrow button for 5 seconds
STEP 2 – SENSORS	
Expected Results	If Expected Results Are Not Seen
Increase or Decrease in DAT/RAT Sensor Reading	Check wiring on sensor and ensure sensor is landed in correct location
STEP 3 – SETTINGS	
Expected Results	If Expected Results Are Not Seen
Settings match store drawings and cutsheet	Check with customer or OEM for updates
STEP 4 – DEFROST	
Expected Results	If Expected Results Are Not Seen
All Cases on circuit go into defrost	Check communication wires between the case controllers Ensure that all cases are addressed correctly and in the correct location
Display Module shows dEF and LEDs turn purple	Check connection to the display
Slow increase on SP	Check wiring on pressure transducer and ensure sensor is installed and landed in correct location Check to ensure that all valves are operating correctly (EEV, LLSV, EEPR)
Slow increase on COT	Check wiring on COT sensor and ensure sensor is installed and landed in correct location Check to ensure that all valves are operating correctly (EEV, LLSV, EEPR)
Slow increase on DAT/RAT	Check wiring on DAT/RAT sensor and ensure sensor is installed and landed in correct location Check to ensure that all valves are operating correctly (EEV, LLSV, EEPR)
EEPR should close (verify through app)	Make sure that the app is connected and updating Ensure that EEPR is installed, wired and landed correctly
EEVs should close (verify through app)	Make sure that the app is connected and updating Ensure that EEV is installed, wired and landed correctly Check valve operation with the SMA-12
Solenoid should close (verify through app)	Make sure that the app is connected and updating Ensure that Solenoid is installed, wired and landed correctly
Control State should show "Refrigeration"	Make sure that the app is connected and updating
For Off-Time Defrost	
Fans should stay on during defrost	Check Defrost Type setting in the controller
For Electric Defrost	
Fans should turn off during defrost	Check Defrost Type setting in the controller Check with manufacturer on proper fan operation during defrost Check Fan wiring at the case controller
Defrost Heater turns on and Amperage matches case cutsheet values	Check defrost heater wiring Check defrost breaker at panel and/or controller box
STEP 5 – OVERRIDE SOLENOID AND EEPR	
Expected Results	If Expected Results Are Not Seen
The solenoid should close	Ensure the solenoid is wired correctly and is landed in the correct location Check the solenoid fuse located on the case controller board under the enclosure
SP should drop to rack suction	Ensure the Solenoid is closed Ensure the pressure transducer is wired and landed correctly
SH should increase	Ensure the Solenoid is closed Ensure the pressure transducer is wired and landed correctly Ensure the pressure transducer is reading accurately
COT should increase	Ensure the Solenoid is closed Ensure the temperature sensor is installed, wired and landed correctly

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STEP 6 – CLOSE EEPR AND DISABLE OVERRIDE TO SOLENOID

Expected Results		If Expected Results Are Not Seen
<input type="checkbox"/>	EEPR should close	Ensure the EEPR installed, wired and landed correctly Check valve operation with the SMA-12
<input type="checkbox"/>	SP should increase	Ensure the EEPR is closed Ensure the pressure transducer is wired and landed correctly

STEP 7 – CLOSE ALL EEVS AND OPEN EEPR

Expected Results		If Expected Results Are Not Seen
<input type="checkbox"/>	EEVs should close (verify through app)	Make sure the app is connected and updating Ensure the EEV is installed, wired and landed correctly Check valve operation with the SMA-12
<input type="checkbox"/>	SH should increase	Ensure the EEV(s) is closed Ensure the pressure transducer is wired and landed correctly Ensure the pressure transducer is reading accurately
<input type="checkbox"/>	COT should increase	Ensure the Solenoid is open Ensure the temperature sensor is installed, wired and landed correctly

STEP 8 – VERIFY EEV OPERATION AND SENSOR WIRING

Expected Results		If Expected Results Are Not Seen
<input type="checkbox"/>	SH should decrease on the individual coil	Ensure the EEV is open Ensure the pressure transducer is wired and landed correctly Ensure the pressure transducer is reading accurately
<input type="checkbox"/>	COT should decrease	Ensure the Solenoid is open Ensure the temperature sensor is installed, wired and landed correctly

STEP 9 – REMOVE ALL OVERRIDES

Expected Results		If Expected Results Are Not Seen
<input type="checkbox"/>	DAT should be within a 2°F dead band	Ensure the temperature sensor is installed, wired and landed in the correct location
<input type="checkbox"/>	SH should be within a 3°F dead band	Ensure the pressure transducer is wired and landed correctly Ensure the pressure transducer is reading accurately

STEP 10 – SENSOR CHECK

Expected Results		If Expected Results Are Not Seen
<input type="checkbox"/>	Sensor reading should return to expected operational temperatures or pressures	Ensure the sensor is installed, wired and landed in the correct location Allow system to stabilize to normal operating conditions

STEP 11 – SENSOR CHECK

Expected Results		If Expected Results Are Not Seen
<input type="checkbox"/>	Baseline data should be captured and stored as a “.CSV” file for future reference	Relaunch mobile app, reconnect to controller, and store coil data