

Procedure Name.

Lust Drive Speed Fault Verification.

Procedure Description.

Tests the Lust drive to ensure that a speed fault signal is being sent to the PMAC.

Supplementary Documentation.

None.

Procedure Details.

1. Set a Digital Volt Meter (DVM) to DC volts.
2. Connect the common (Black) DVM connector to ground.
3. Connect the positive (red) DVM connector to J5OPTO Output (white) at wire number 121. With the spindle off, this should measure between 10v to 12v
4. Turn the spindle on.
5. Voltage should change to 22v to 24v, within 5 seconds. Turn the spindle off. **(If the above will not function, there is a problem with the LUST drive).**
6. Move the positive (red) DVM connector to J3VFM position 18 wire number 150. This should measure 5v with the spindle off.
7. Turn the spindle on.
8. Voltage should change to below 1v within 5 seconds. Turn the spindle off. **(If the above will not function, there is a problem with the J5OPTO Output module (white), adjacent to wire number 121, try swapping the module. Or, there is a problem with the PMAC controller, try re-loading the machine control software, or changing the PMAC board. Or, there is a short or break in the J5OPTO or J3VFM ribbon cables).**
9. Move the positive (red) DVM connector to J3OPTO wire number 138. This should measure 0v with the spindle off.
10. Turn the spindle on.
11. Voltage should change to 10v within 5 seconds. Turn the spindle off. **(If the above will not function, there is a problem with the J3OPTO Input module (red), adjacent to wire number 138, test the module fuse, or replace the module).**

If after completing this procedure, all tests are good; the problem is within the LUST drive.