

ISAAC, David Wang 10:40 Am

2013-09-12 TM4 COIL 1

LEAK CHECK AT HC

LEAK DETECTOR

Base LR: 1.5×10^{-7} atm. cc/sec

Base pressure: 2.7×10^{-2} torr.

checked all vacuum connections on the top of the module, they are leak tight.

spray helium to Right side coil leg (terminal)

2 second spray LR: 1.5×10^{-7} to 1.0×10^{-4}

1 second spray LR: 1.0×10^{-6} to 2.0×10^{-5}

spray helium to Left side coil leg (terminal)

2 second spray LR: 1.0×10^{-6} to 1.1×10^{-4}

1 second spray LR: 1.0×10^{-6} to 8.0×10^{-5}

spray helium to water blocks area

2 second spray

LR: 8.0×10^{-7} to 1.2×10^{-6}

The leak is huge and is on the coil

terminal block which is close to target

It can't be determined which side is leak Left? or Right?

The leak is not from water block.

Reduced helium volume
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LEAK DETECTOR

BL 5×10^{-7} atm.cc/sec
BP 3.2×10^{-2} torr

Right side terminal coil block 1 click spray:

① 5×10^{-7} to 2×10^{-5}

② 5×10^{-7} to 4×10^{-5}

Left side terminal coil block 1 click spray:

① 5×10^{-7} to 2.4×10^{-5}

② 5×10^{-7} to 3×10^{-5}

It is difficult to tell which side
is coil 1 (leaking circuit) in container
box.