



Probe Resistances

TCM Wiring (Black color coded Lemo receptacle)

Bottom cernox/GRT Thermometer:

- Pins 1-2: _____ (85-150Ω, GRT: 85-100Ω)
- Pins 3-4: _____ (85-150Ω, GRT: 85-100Ω)
- Pins 1-3: _____ (80-95Ω)
- Pins 2-4: _____ (80-95Ω)

Center cernox/PLT Thermometer:

- Pins 5-6: _____ (CX:100-130Ω, PLT: 190-210Ω)
- Pins 7-8: _____ (CX:100-130Ω, PLT: 190-210Ω)
- Pins 5-7: _____ (70-90Ω)
- Pins 6-8: _____ (70-90Ω)

- Gas Heater: Pins 9-10: _____ (95-110Ω)
- Chamber Heater: Pins 11-12: _____ (150-170Ω)

No shorts to ground:

- (Pin 1) - to ground: _____
- (Pin 5) - to ground: _____
- (Pin 9) Gas Htr. - to ground: _____
- (Pin 11) Chamber Htr. - to ground: _____

No shorts between Thermometers and Heaters:

- Pins 1- (5, 9,11): _____
- Pins 5- (9, 11): _____
- Pins 9-11: _____



Utility Connector (Blue color coded Lemo receptacle)*

* Disconnect Red Lemo prior to resistance measurements.

** 5.5T will have continuity (Pins 6-2)

Magnet Switch Heater:	Pins 1-2:	_____	(130-200Ω)
SQUID #1 Heater:	Pins 5-2:	_____	(95-115Ω)
Phosphor Bronze Heater (1T, 5S, 7TAC):	Pins 6-7:	_____	(150-200Ω)
Magnet Quench Heater (5.5T):	Pins 6-2:	_____	(105-120Ω)
SQUID #2 Heater:	Pins 7-2:	_____	(95-115Ω)
Ext. EMU Range Heater:	Pins 8-2:	_____	(35-50Ω)
Impedance Heater:	Pins 3-4:	_____	(40-50Ω)
Magnet Voltage Leads:	Pins 9-10:	_____	(20-30Ω)
Level Meter Current:	Pins 11-12:	_____	(410-430Ω)
Level Meter Voltage:	Pins 13-14:	_____	(405-425Ω)
Imp. Thermometer:	Pins 15-16:	_____	(45-55Ω)
AC Copper Coil (1T&5S):	Pins 17-18:	_____	(35-55Ω)
Phosphor Bronze Heater (5ST & 7T)**:	Pins 17-18:	_____	(150-200Ω)

No shorts to Ground:

List any pins shorted to ground: _____

No shorts between:

Pins 2- (6, 9, 11, 15, & 17): _____

Pins 6- (9, 11, 15 & 17): _____

Pins 9- (11, 15, & 17): _____

Pins 11- (15 & 17): _____

Pins 15-17: _____



SQUID PROBES

Longitudinal RF Bias Connector: _____(1K-9KΩ)

Longitudinal Feedback Connector: _____(10-20Ω)

Transverse RF Connector: _____(1K-9KΩ)

Transverse Feedback Connector: _____(10-20Ω)

No Longitudinal shorts to ground:

RF Inner Connector to ground: _____

RF Outer Connector to ground: _____

FB Inner Connector to ground: _____

FB Outer Connector to ground: _____

FB Connector to heater: _____

(Pin 2 on blue utility connector)

No Transverse shorts to ground:

RF Inner Connector to ground: _____

RF Outer Connector to ground: _____

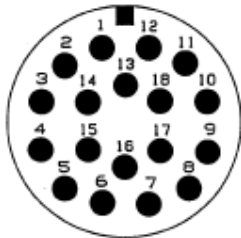
FB Inner Connector to ground: _____

FB Outer Connector to ground: _____

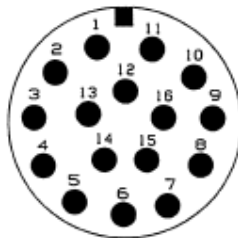
FB Connector to heater: _____

(Pin 2 on blue utility connector)

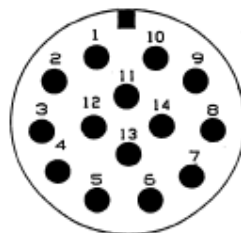
BLACK & BLUE LEMO (MPMS)
BLUE LEMO (PPMS)



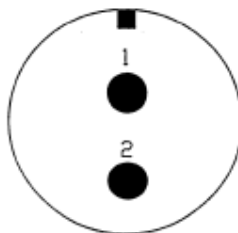
GREEN LEMO (MPMS)
BLACK LEMO (PPMS)



GREY LEMO
(PPMS Only)



RED LEMO





Magnet Leads (Red color coded Lemo receptacle)

Magnet lead resistance: _____(13-17Ω)

Leads not shorted to ground: _____

Oven (Gray Lemo connector)

PLT Thermometer: Pins 1-2: _____(19.5-22.0Ω) list datasheet value: _____

PLT Thermometer: Pins 1-4: _____(19.5-22.0Ω) list datasheet value: _____

PLT Thermometer: Pins 1-3: _____(4.0-5.0Ω) list datasheet value: _____

PLT Thermometer: Pins 2-4: _____(4.0-5.0Ω) list datasheet value: _____

Heater: Pins 7-8: _____(145-155Ω) list datasheet value: _____

Pins 5-6 (OPEN): _____