Coil Driver Measurement
J. Kissel, 2022-01-13
DUT Setup, Real OSEM Connection

BNC Cables
~10 ft

(weave from *back* of rack to *front* of rack through chassis stack within rack)

Channel pins on DB9 on front of box must match DB15 output pins (keep fixed during all measurements of a given channel)

BNC to Clip Leads

Make sure exposed BNC connections aren't touching other chassis electrically

DB9 Cable
~3 ft

You might be tempted to use D1900068's DB9 output and a DB9 cable to connect "cleanly" to chassis. See LHO aLOG 61289 for discussion of compromise.

DB9
F M

CH2 B
CH2 A
CH1 B
CH1 A
BNC Ts
SOURCE
S
SR785

Back *Front*

From SR785 Preamp
M F

Differential Output Active Pins
CH1 1-6
CH2 2-7
CH3 3-8
CH4 4-9

DB9
F M

"Differential Amp" Section

Output to
DUT +
DUT -
SR785 -
SR785 +

INPUT S

SR785 Accessory Suite D1900068

Back *Front*

DB9pin Breakout Board
F M
"Drive Input"

BNC Cables
~3 ft

"Coil Out to Sat"

Shields connected to Chassis 0V via Breakout

Coil Driver
QTOP D1001782
UIM D070481
PUM D070483

Front *Back*

F M
DB15

DB15pin Breakout Board
F M

DB15

Coil Pins Are:
CH1 = 1 & 9
CH2 = 3 & 11
CH3 = 5 & 13
CH4 = 7 & 15

Existing, Normal OSEM Cable

BNC Cables
~3 ft

CH3
CH2
CH1

Oscilliscope

Back *Front*

O-Scope not strictly necessary, but *very* helpful in terms of understanding signal levels in/out of the SR785 Accessory Box and into PUM Driver

BNC Cables
~3 ft

ALL OTHER CHASSIS / CABLE CONNECTIONS NOT SHOWN MUST REMAIN AS NORMAL

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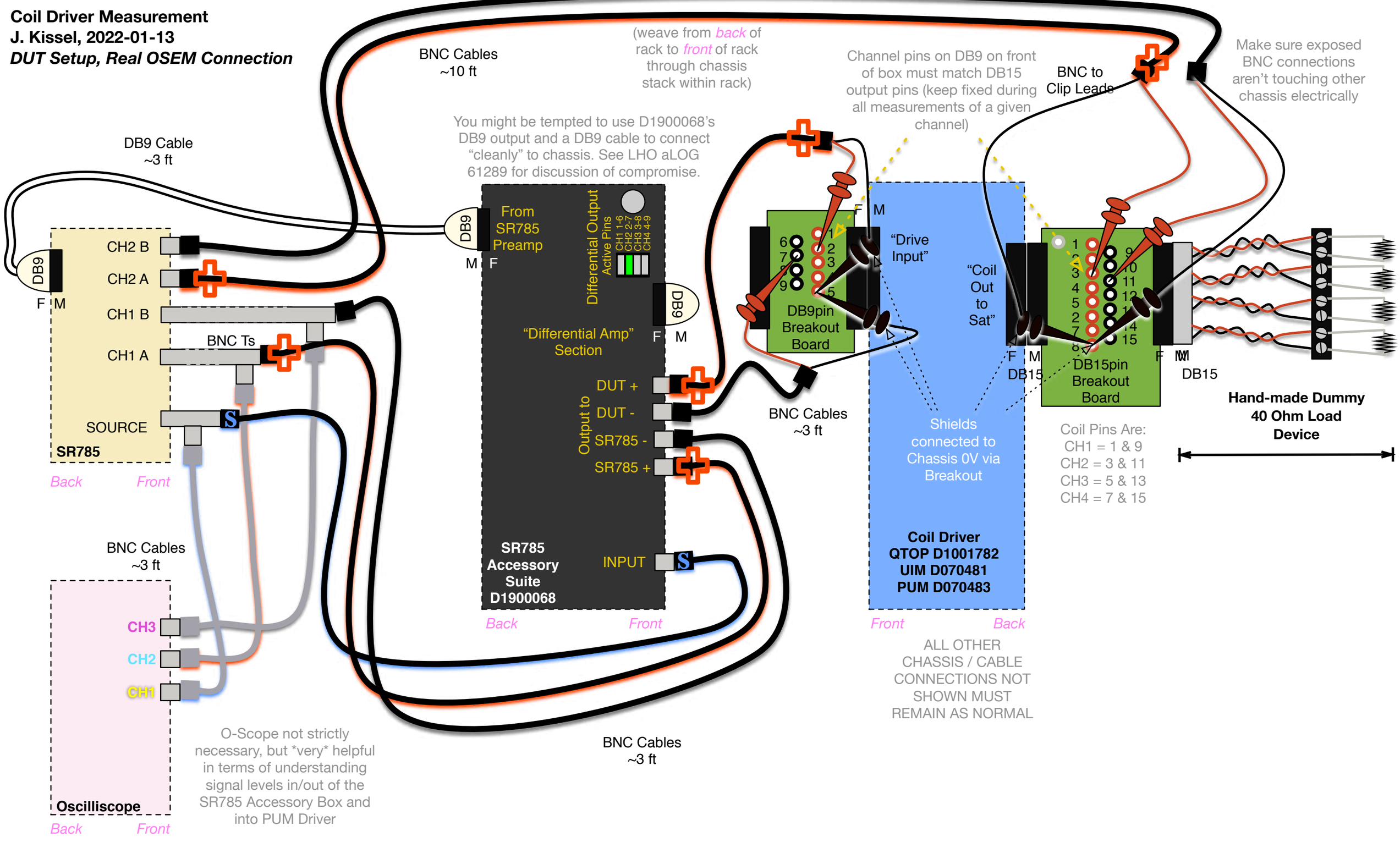

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Measurement Device Setup Only