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# UXO Transmit /Receive Fixtures

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# Outline

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- Transmit Coils
- Receive Coils
- Transmitter Electronics
- Receiver Termination Electronics
- Coil Assemblies



## Transmitter Coils X,Y,Z



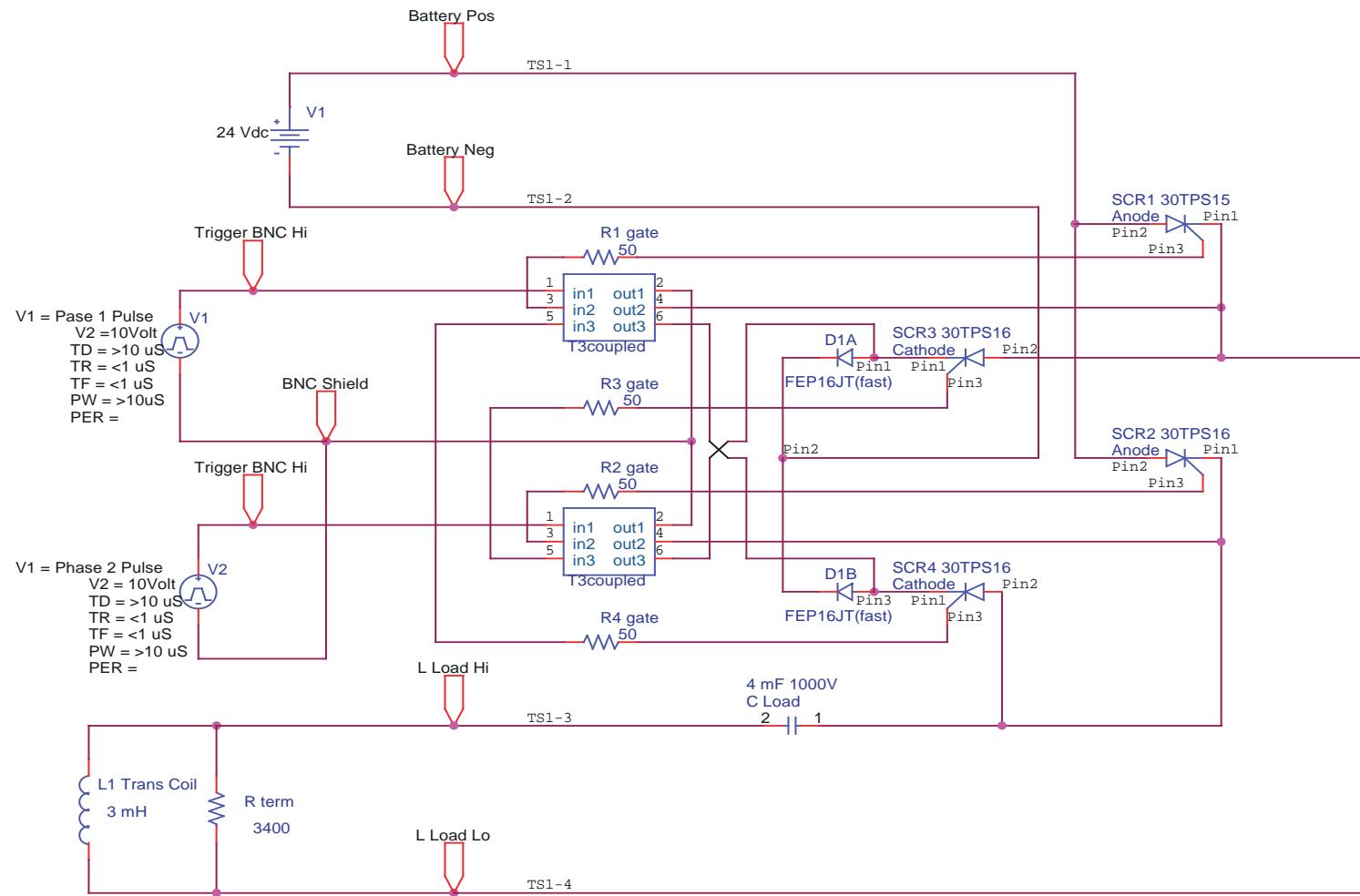
X:Outer Vert coil is 36 turns # 12, 2.86 mH. and  
the coil is 6.5 lbs. and 37 3/4" x 28".

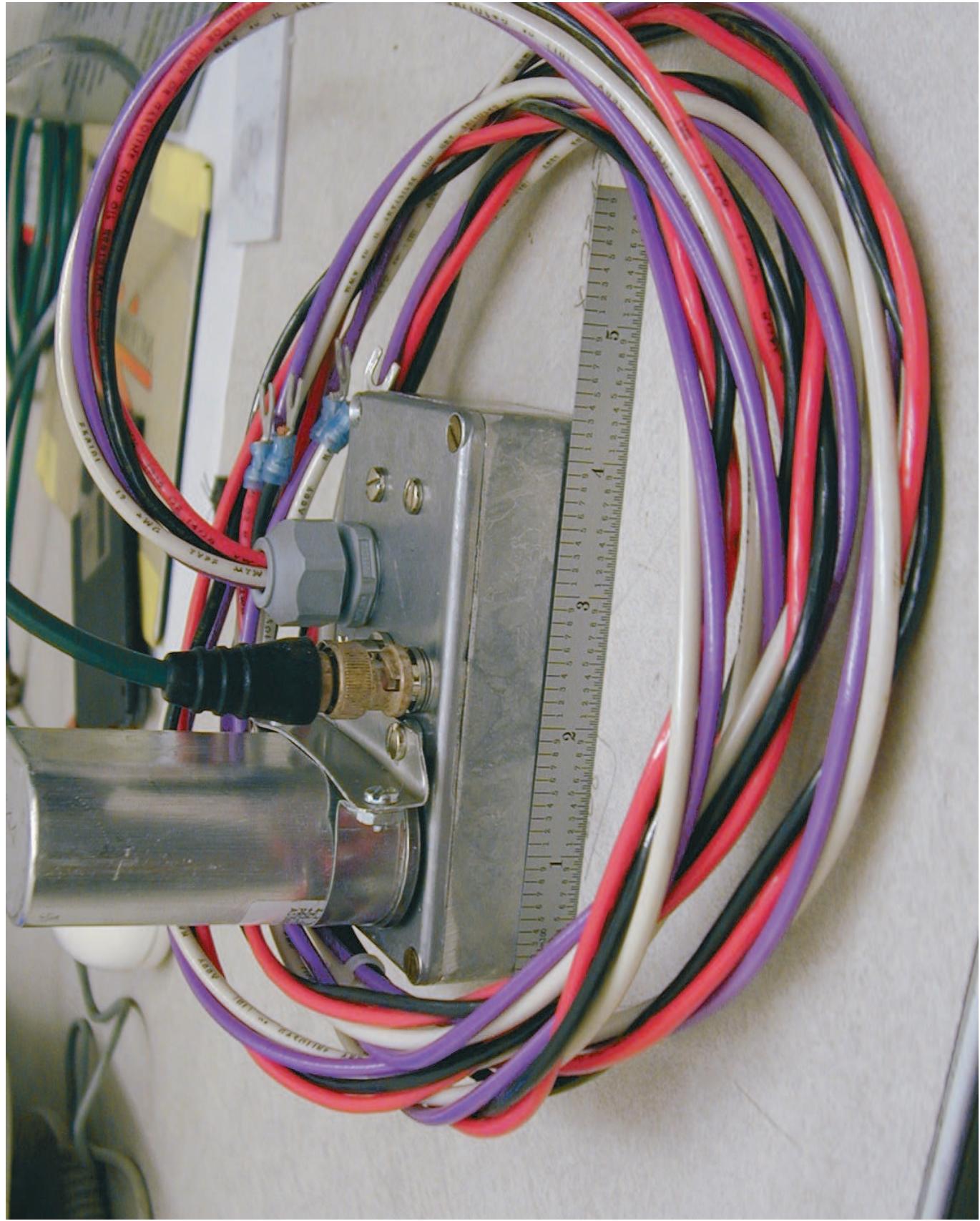
Y: Inner Vert coil 3.1 mH, 36 turns #13, 3.1 mH. and  
the coil is 6.4 lbs .and 37 3/4" x 26 3/4".

Zs:H coil Upper 1.4 mH, 22 turns #12, 1.4 mH  
H coil Lower 1.4 mH, 22 turns #12, 1.4 mH  
H coils series, adding 3.0 mH, 44 turns #12  
Horizontal coils weight is 16 lbs. , coils  
and frames are 39 1/8" square.



# Transmitter Pulser Schematic











## Receive Coils (16 total)



- 6" inner radius, 3/4" wide, 500 turns #26 formvar wire, wound on a Delrin spool.
- The Resistance is 35 Ohms, the Inductance is ~70 mH., the uncompensated ring frequency is ~65 kHz., terminated with 10 foot shielded twisted pair.
- The R/C network is tuned to ring at 20 kHz. and is critically damped.
- An aluminum foil/ fiberglass tape is insulated/layered and provides a non-shorting shield.
- An additional tape layer is the final covering.
- The coil ties to a 3 pin plug:1-shield, 2-coil inner lead, 3-outer coil lead.



# Coil Termination Network

