

1530 TYPE INDUCTORS

DESCRIPTION

Contents	Page
1. General	1
2. Description of 1530A Inductor	1
3. Description of 1530B Inductor	3
4. Description of 110A Apparatus Box	4
5. Description of 110B Apparatus Box	6

1. GENERAL

1.01 This section covers the description of the 1530 Type Inductors which are used at junctions of open wire or drop wire and cable containing carrier pairs for the purpose of suppressing static and radio transmitter interference entering the cable.

1.02 The 1530 type inductors are available in two sizes, the 1530A Inductor for single pairs and the 1530B Inductor for quadded conductors.

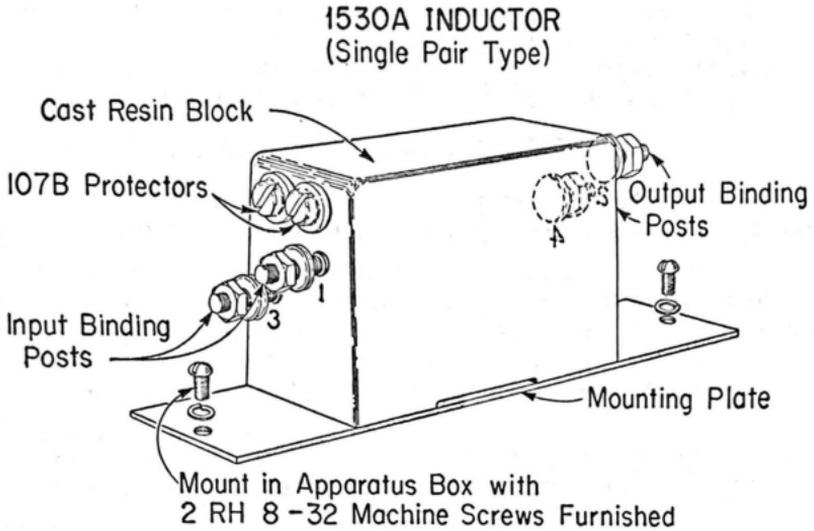
1.03 The 110A and 110B Apparatus Boxes are designed to house the 1530A or 1530B Inductors. The 110A Apparatus Box, the first box to be made available, is suitable for **pole mounting only**. The 110B Apparatus Box which supersedes the 110A Box is suitable for **both pole and crossarm mounting**.

1.04 Inductors shall be installed only when specified in construction plans or other plant instructions.

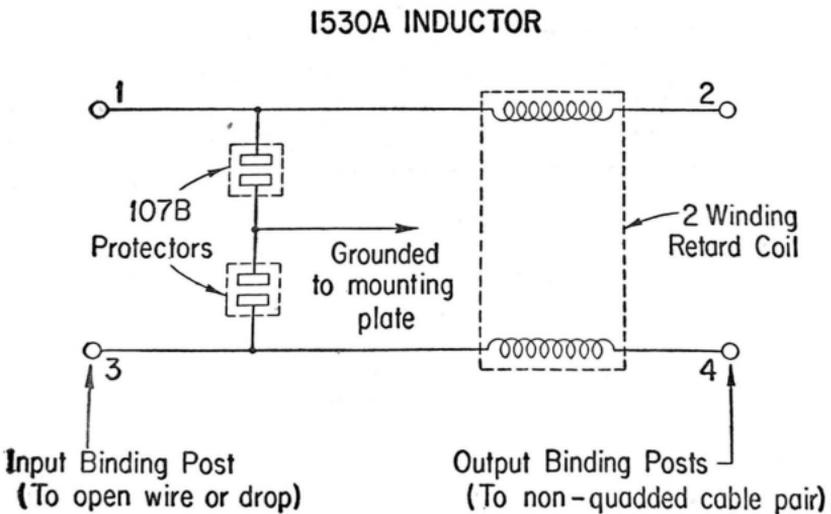
2. DESCRIPTION OF 1530A INDUCTOR

2.01 This inductor is a single pair type consisting of a two-winding retardation coil, two 107B Protectors, with input and output binding posts all assembled in a cast resin block. The 1530A Inductor is designed primarily for use on a non-quadded cable pair. The base of the block is equipped with a mounting plate which is used for mounting the inductor in a 110 Type Apparatus Box.

2.02 The following drawing illustrates the 1530A Inductor.



2.03 The following diagram shows the circuit arrangement of the 1530A Inductor.

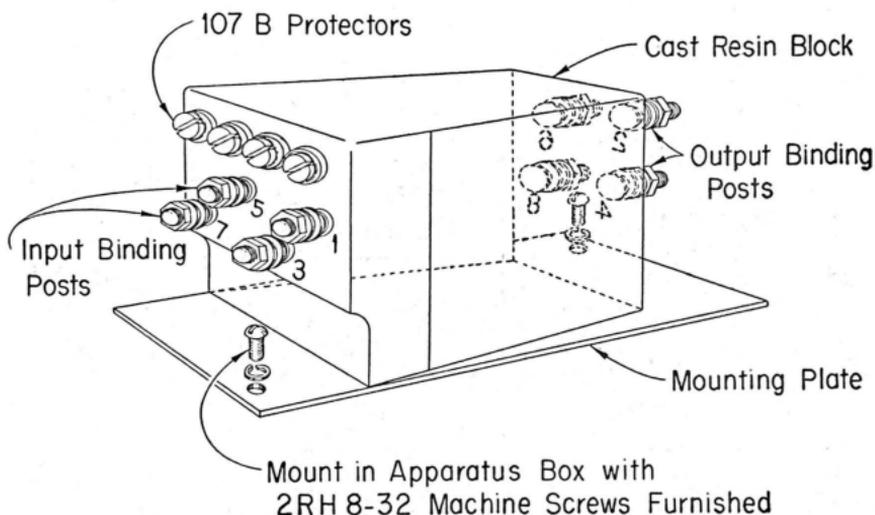


3. DESCRIPTION OF 1530B INDUCTOR

3.01 This inductor is a quadded type consisting of a four-winding retardation coil, four 107B Protectors with input and output binding posts all assembled in a cast resin block. It is also provided with a mounting plate designed to fit in the 110 Type Apparatus Box. It is designed primarily for use on quadded cable conductors.

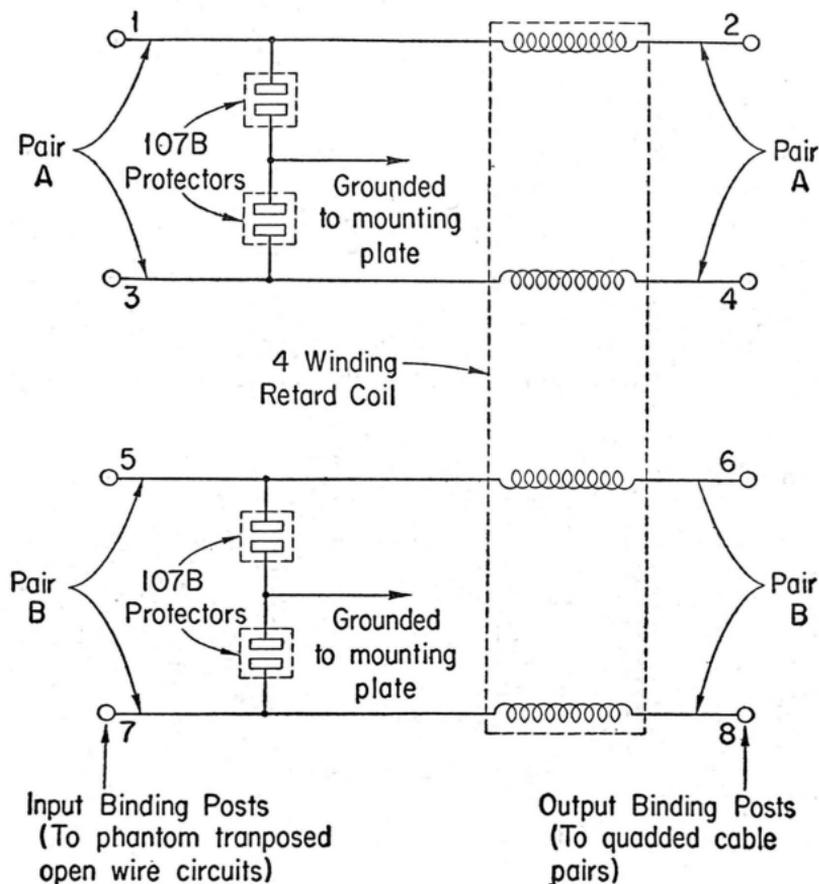
3.02 The following drawing illustrates the 1530B Inductor.

1530B INDUCTOR
(Quadded Pair Type)



- 3.03 The following diagram shows the circuit arrangement of the 1530B Inductor.

1530B INDUCTOR



4. DESCRIPTION OF 110A APPARATUS BOX

4.01 This housing consists of a sheet metal box with a drop type cover. It is equipped with two internal brackets for mounting from one to six 1530A Inductors or from one to three 1530B Inductors. The external bracket, designed for pole mounting only, is equipped with a lug for terminating the No. 6 Ground Wire required for grounding the 107B Protectors in the inductors.

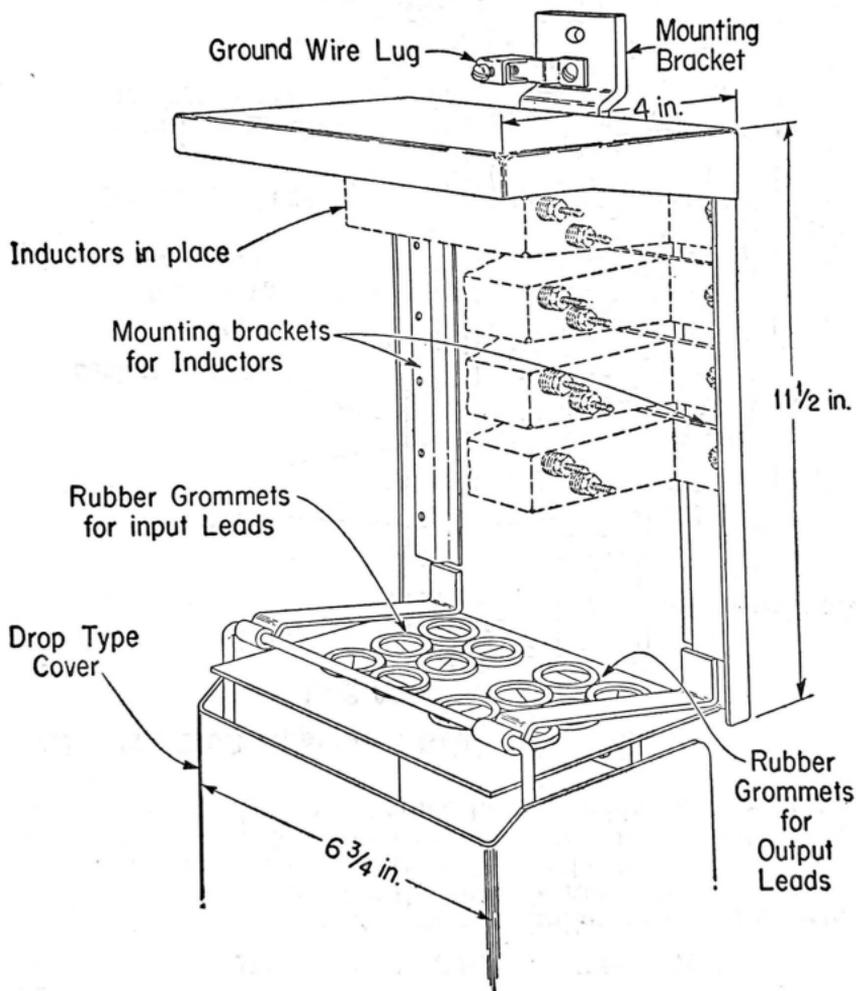
4.02 The housing cover is opened by grasping the sides near the bottom and pulling the cover out. This releases the cover and permits it to be swung down thereby exposing the in-

terior of the housing. To close the housing, swing the cover up, insert the top edge under the top hood of the housing and then force the lower end toward the back of the housing until it snaps in place.

4.03 Two sets of six grommeted entrance holes are provided on the bottom of the box for admitting the drop or twisted paired wire to be terminated. Place only one pair in each entrance hole.

4.04 The 110A Apparatus Box is shown below.

110A APPARATUS BOX



5. DESCRIPTION OF 110B APPARATUS BOX

5.01 The 110B Apparatus Box is similar to the 110A Apparatus Box except for the outside mounting bracket which is L shaped and therefore suitable for both pole and crossarm mounting. In addition the grounding lug is located inside the box and a ground wire entrance hole provided at the bottom of the box.

5.02 The 110B Apparatus Box is shown below.

110B APPARATUS BOX

