

SPECIAL SERVICES

(APPLICATION OF LOADING COILS AND REPEATING COILS)

1. GENERAL

- 1.01 This section covers connecting and ordering information on locally manufactured equipment units.
- 1.02 These equipment units are similar to the 1A angle-bracket-mounted units and are suitable for mounting in 105-type apparatus boxes.

2. DESCRIPTION

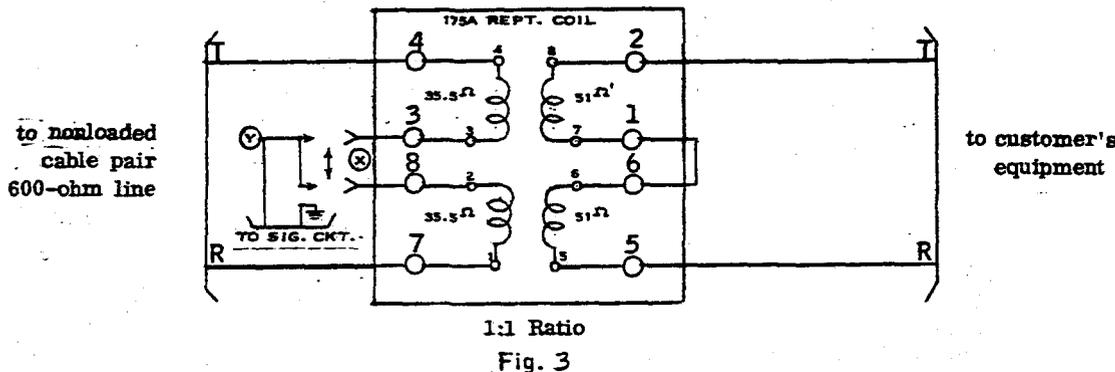
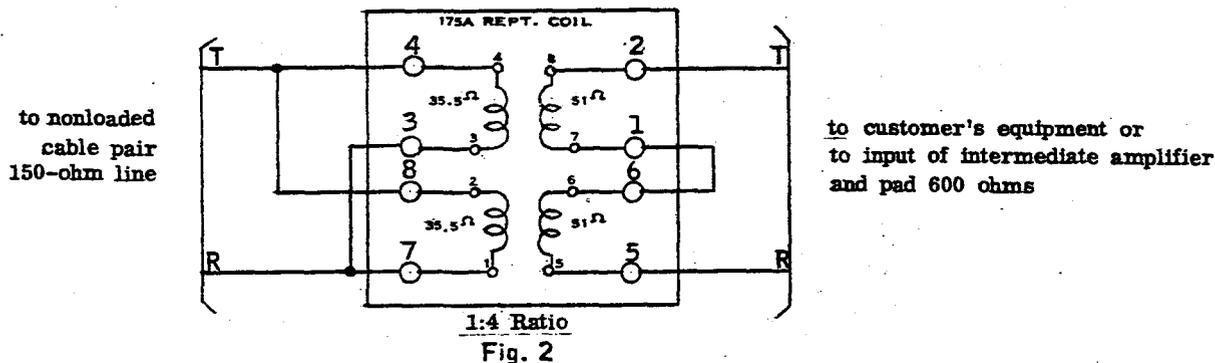
2.01 Loading-Coil Equipment Unit A-3822. This unit is arranged with four 632 (Group 1) or 638 (Group 2) loading coils. It is used at central offices and at PBX's to correct loading irregularities. This unit should only be provided when specified on the service order or in a transmission recommendation. Figure 1 shows the terminal arrangement in table form.

Coil	Terminal On No. 146A Coil Case		Terminals On Unit Assembly P-265798 Key Tel. Unit
	"A" To PBX	"B" To Line	
1	T 1		1
	R 2		2
		T 1	3
		R 2	4
2	T 1		5
	R 2		6
		T 1	7
		R 2	8
3	T 1		9
	R 2		10
		T 1	11
		R 2	12
4	T 1		13
	R 2		14
		T 1	15
		R 1	16

Fig. 1

2.02 Ring-Thru Repeating-Coil Equipment Unit L-4697 consists of a 175A repeating coil mounted on an angle-bracket unit. This unit is suitable for use on private lines or on leased cir-

cuits when it is necessary to isolate customer-owned and maintained equipment which responds to 20-cycle ringing power. Figures 2 and 3 show the schematic arrangements.



Provide Y option when simplex signalling is required, otherwise provide X option.

TABLE A

LINE	OPTION	CODE	STRAP	IMPEDANCE RATIO	DROP
150- Ω	Fig. 2	175A	3-7, 4-8, 1-6	1:4	600- Ω
600- Ω	Fig. 3	175A	3-8, 1-6	1:1	600- Ω

2.03 Ceramic-Type Resistors for use on circuits (mainly teletype) which require a heat-dissipating-type resistor, are provided on equipment units covered by Drawing L-4705. These resistors are mounted on angle-bracket units suitable for mounting in 105-type apparatus boxes. Figure 4 shows a typical arrangement, and Table B, the various combinations.

TABLE B

Value of Resistors

Group	Type	Res. A	Res. B	Res. C	Wattage
G 1	100A	1600	1600		10
G 2	100B	1075	220		10
G 3	100C	500	200		10
G 4	100D	10	20	40	8
G 5	100E	80	160	320	8
G 6	100F	100	800		10
G 7	100G	300			12
G 8	100H	60	60	60	8

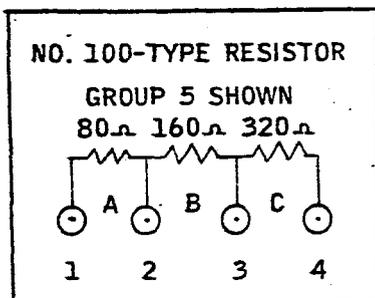


Fig. 4

3. SUPPLIES

Unit, Equipment, A-3822, G () Double
angle-bracket unit equipped as follows:

- Group 1, four 632 loading coils
- Group 2, four 638 loading coils

Unit, Equipment, L-4697 Double angle-
bracket unit equipped with a 175A 1:1 ratio
ring-thru repeating coil.

Unit, Equipment, L-4705, G () Single
angle-bracket unit equipped with a ceramic
resistor.