

CONDENSERS DESCRIPTION AND USE

1. GENERAL

1.01 This section gives general information pertaining to the principal condensers used in connection with station apparatus. It is reissued to include condensers used in station equipment of recent design.

2. DESCRIPTION

2.01. Table 1 lists the principal condensers used in connection with station apparatus, shows their rated capacity in microfarads and indicates the code numbers of condensers that are equivalent and can generally be used interchangeably in station apparatus. Where it is necessary to show between which condenser terminals the capacities of multiple condensers are measured, reference is made to the figures that follow Table 1.

TABLE 1

Condenser Code No.	Capacity in M. F.	Equivalent* Condensers	Refer To
21A	2.00	147A	—
21B	2.00	147A	—
21C	2.00	147A	—
21D	2.00	21E, L and 147A	—
21E	2.00	See 21D	—
21F	1.00	149A	—
21K	1.00	149A	—
21L	2.00	See 21D	—
21M	1.00	149A	—
21N	{ .50 1.00	147D	Fig. 1 (A) (B)
21R	.10	149C	—
21W	1.00	149E	—
21AC	.50	149B	—
21AD	{ 1.00 1.00	147C	Fig. 2 (A) (B)
21AM	1.06	—	—
21AN	1.00	149A	—

TABLE 1—Cont.

Condenser Code No.	Capacity in M. F.	Equivalent* Condensers	Refer To
21AP	1.00	149A	—
21AS	.50	149B	—
21BF	.644	149D	—
21BG	{1.00	147B	Fig. 3 (A)
	{1.00		(B)
21BW	1.00	149A	—
129F	.006	—	—
137A	4.00	—	—
139A	2.00	—	—
139C	{1.00	—	Fig. 4 (A)
	{1.00		(B)
141A	1.00	—	—
141B	.50	—	—
141P	.005	—	—
147A	2.00	—	—
147B	{1.00	1147B	Fig. 5 (A)
	{1.00		(B)
147C	{1.00	—	Fig. 6 (A)
	{1.00		(B)
147D	{1.00	1147D	Fig. 6 (A)
	{.50		(B)
149A	1.00	1149A and 149E	—
149B	.50	1149B	—
149C	.10	—	—
149D	.65	149F	—
149E	1.00	—	—
149F	.65	—	—
152A	.085	61A Filter	Fig. 7
194A	{1.00	194C	Fig. 8 (A)
	{2.00		(B)
194B	{.50	—	Fig. 8 (A)
	{2.00		(B)
194C	{1.00	—	Fig. 9 (A)
	{2.00		(B)
195A	{2.00	—	Fig. 10 (A)
	{.50		(B)
195B	{2.00	—	Fig. 10 (A)
	{.50		(B)
195C	2.00	—	Fig 14
199A or B	{.65	—	Fig. 11 (A)
	{2.00		(B)
1021BW	1.00	1149A	—

↑
↑
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1147B	{ 1.00	—	Fig. 12 (A)
	{ 1.00		(B)
1147D	{ 1.00	—	Fig. 13 (A)
	{ .50		(B)
1149A	1.00	—	—
1149B	.50	—	—

*If a 147 or 1147 type condenser must fill the same space as a 21 type condenser an adapter P-409555 may be required. If a 149 or 1149 type condenser must fill the same space as a 21 type condenser an adapter P-409556 may be required.

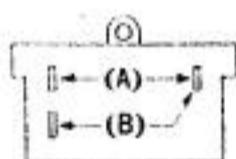


Fig. 1

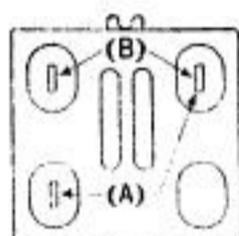


Fig. 2

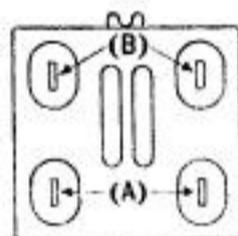


Fig. 3

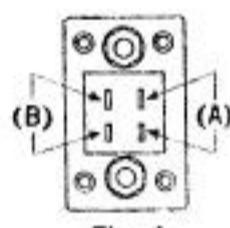


Fig. 4

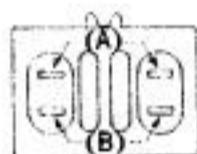


Fig. 5

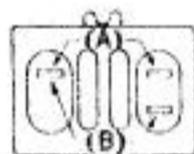


Fig. 6

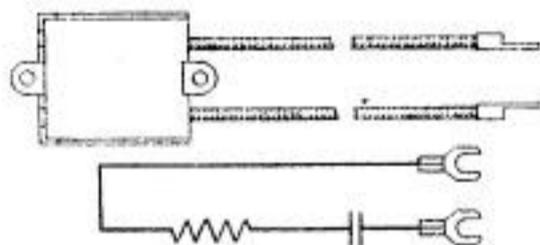


Fig. 7

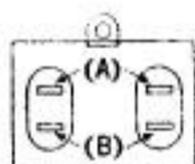


Fig. 8

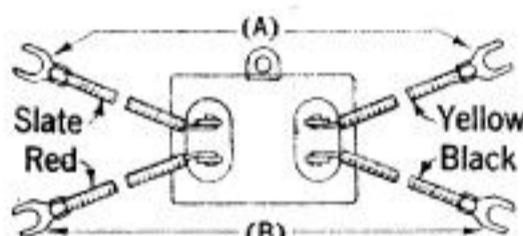


Fig. 9

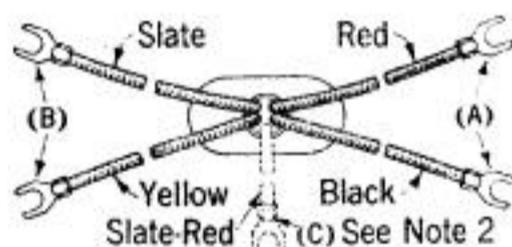


Fig. 10

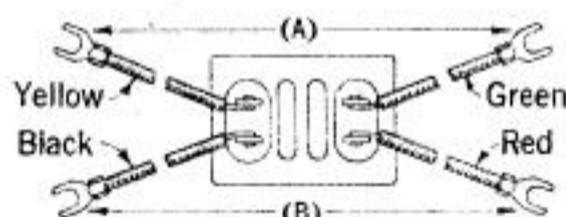


Fig. 11

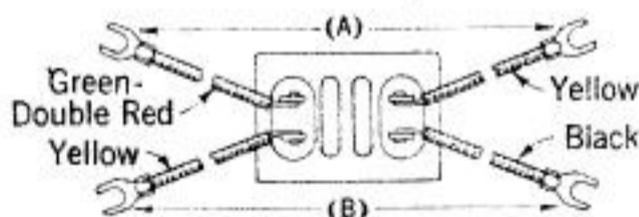


Fig. 12

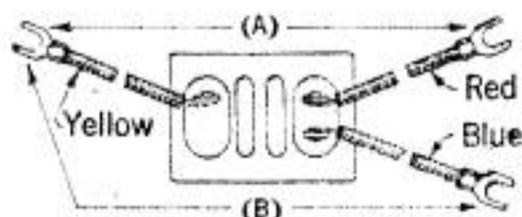


Fig. 13

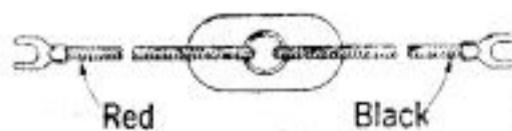


Fig. 14

Note 1: In the above figures some of the condenser mounting tabs are shown bent at an angle of 90 degree so as to definitely identify the position of the condensers illustrated in the figures.

Note 2: In Fig. 10, lead (C) is only on 195B Condenser and is connected to the can. The can has an insulating finish coating.

3. USE

3.01 The various sections in the C series that describe station apparatus mention the code numbers of the condensers used in new station apparatus. Reference should be made to these sections for information covering the use of new condensers.

3.02 Repaired condensers will be found in certain station apparatus. These condensers may not meet the requirements for new condensers but are satisfactory for use in certain station apparatus. In order that ringer connection limitations will not be exceeded, sets with repaired condensers shall be installed on the basis that the repaired condenser capacity is the same as the original capacity shown in Table 1, regardless of the stamping on the condenser or the cover of the set. In this connection single condensers in large cans shall be installed as 2 mf. condensers with the exception of 21AP and 21AN condensers which are 1 mf. condensers.