

Chapter 8

TRANSFORMER, PARTRIDGE, TYPE P 4061

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<i>Transformer, Type P 4061</i>	1

LEADING PARTICULARS

<i>Transformer, Type P 4061</i>	<i>Ref. No.</i>
<i>Ratio</i>	2:1
<i>Impedance</i>	
<i>Primary</i>	600 ohm
<i>Secondary</i>	15 ohm
<i>D.C. resistance</i>	
<i>Primary</i>	14 ohm
<i>Secondary</i>	7.1 ohm
<i>Inductance at 1V.50 c/s (primary)</i>	8.5 H
<i>Leakage inductance (primary)</i>	1.3 mH
<i>External connections</i>	solder tags
<i>Overall dimensions (in.)</i>	$2\frac{1}{16} \times 1\frac{7}{8} \times 1\frac{5}{8}$
<i>Weight (lb)...</i>	$\frac{1}{2}$ (approx.)

Introduction

1. The transformer, Type P 4061, is used in aircraft circuitry as a matching transformer.

DESCRIPTION

2. The transformer is illustrated in fig. 1. It consists of windings wound on mumetal "E"

type laminations, the wound core assembly is then wax dipped.

3. The laminations are clamped by two sets of clamping brackets; one set has the terminal board attached to it.

4. The leads from the coils are brought out to solder tags on the terminal board.

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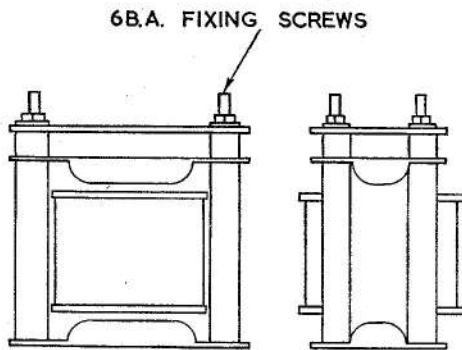


Fig. 1. Transformer, Type P 4061

INSTALLATION

5. The transformer may be mounted in any position using the four 6 B.A. fixing screws, each $\frac{3}{16}$ in. long, on centres $1\frac{9}{16}$ in. \times $\frac{11}{16}$ in. to locate in four holes on a mounting panel.

SERVICING

6. Very little servicing can be done except to ensure that the transformer is securely fixed and that the connections are sound.

TESTING

7. Ensure that the resistance of the windings are within ± 10 per cent of the values given in Leading Particulars.

8. The insulation resistance between the transformer windings and between each winding and earth, measured with a 500-volt insulation resistance tester, should not be less than 5 megohms.

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