

REV NO. 1

TITLE

P3K-AL-0344-A01

TEST INSTRUCTIONS FOR SPEED MATCHER TRANSFORMER

CONT ON SHEET 2 SH NO. 1

FIRST MADE FOR EHC MARK II (SPEED CONTROL UNIT)

REVISIONS

I. SCOPE

This instruction outlines the specifications for testing the Speed Matcher transformer board ~~1S1-D002~~

CIRCUIT BOARD 155C3005.

II. CIRCUIT DESCRIPTION

The purpose of the Speed Matcher transformer is to sample the 115 VAC line frequency either 50 or 60 HZ and supply this input signal to the Speed Matcher board. In addition, this step down transformer reduces the voltage to 6.3 V RMS and also provides isolation between the line and the EHC system.

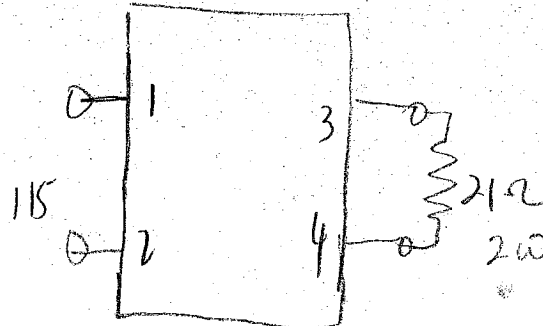
III. CIRCUIT SPECIFICATIONS

TRANSFORMER INPUT @ TB1-1 & TB1-2 550-11

115  $\pm$  5% VAC, 50/60 HZ

TRANSFORMER OUTPUT @ TB1-3 & TB1-4 550-11

6.3  $\pm$  5% Vrms @ .3 amp, 50/60 HZ



7.76 NL AC.

ET-273

273-2

273-12

273-13

273-71

PRINTS TO

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D. Mone Jan. 24, 1975

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P3K-AL-0344-A01

Schenectady, N.Y.

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CONT ON SHEET

2

SH NO.

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REV NO.

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P3K-AL-0344-A01

TEST INSTRUCTIONS FOR  
SPEED MATCHER TRANSFORMER

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3

SH NO.

2

FIRST MADE FOR EHC MKII (Speed Control Unit)

REVISIONS

TEST INSTRUCTIONS

1S1-DOO2

Assembly 155C3005

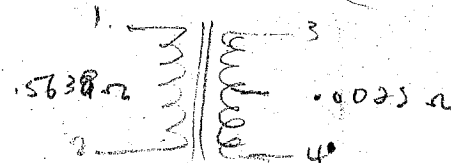
Schematic 243A8456

PROCEDURE:

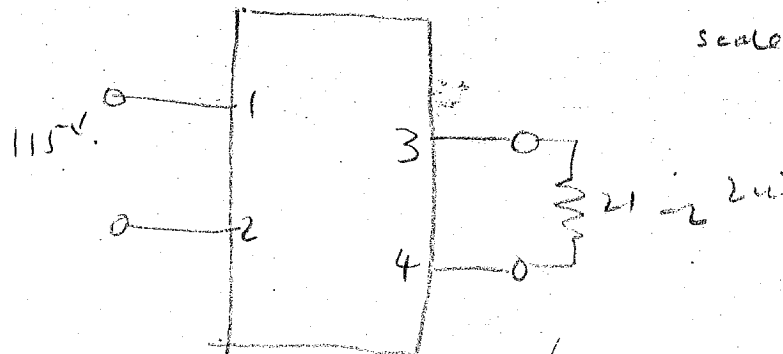
1. Refer to Fig. A for test circuit.
2. Refer to Fig. B. for equipment list and setup instructions.

NOTE: All settings and specifications are + 10MV unless otherwise specified.

3. Apply 115.0 VRMS to the circuit input TBI-1 and TBI-2.
4. Measure 5.98 to 6.62 VRMS at the circuit output TBI-3 and TBI-4.
5. End of Test.



Scale 10x



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3

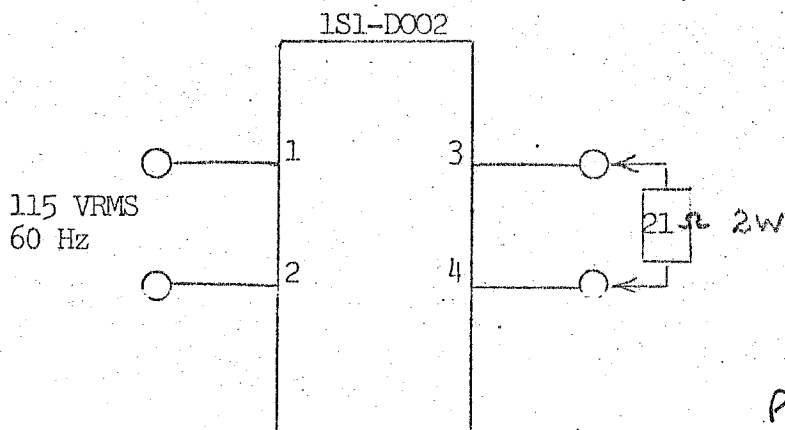
SH NO.

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REV NO.   
 P3K-AL-0344-A01   
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TITLE   
 TEST INSTRUCTIONS FOR   
 SPEED MATCHER TRANSFORMER   
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FIGURE A



Part 11

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TEST INSTRUCTIONS FOR  
SPEED MATCHER TRANSFORMER

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SH NO. 4

FIRST MADE FOR EHC MK II (Speed Control Unit)

REVISIONS

FIGURE BEQUIPMENT NEEDED

- A. DVM AC/DC SD7205A
- B. Variac

SETUP INSTRUCTIONS

1. The load to be applied to the circuit under test is  $\pm 1\%$  tolerance.
2. Use the variac to adjust the AC input voltage.

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TEST INSTRUCTIONS FOR SPEED MATCHER TRANSFORMER  
FIRST MADE FOR EHC MARK II (SPEED CONTROL UNIT)

REVISIONS

PREPARED BY

*E.S. Andrejko*

DATE

*March 12, 73*

E.S. Andrejko  
EHC DESIGN ENGINEERING

APPROVED BY

*P.C. Callan*

DATE

*1-21-75*

P.C. Callan - MANAGER  
EHC DESIGN ENGINEERING

TEST PROCEDURE

PREPARED BY

*C. Bugg*

DATE

*10/29/74*

C. Bugg  
EHC TEST ENGINEER

TEST PROCEDURE APPROVED BY

*E.S. Andrejko*

DATE

*Jan. 14, 74*

E. Andrejko  
EHC DESIGN ENGINEERING

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