

REV
NO.

P3K-AL-0314-A01

TITLE

TEST INSTRUCTIONS FOR THE REHEAT PRESSURE SENSOR

CONT ON SHEET

6

SH NO.

5

FIRST MADE FOR EHC MARK II

BOARD ASSEMBLY 115D2230

Sch. 115D2201

Patchboard No. M1

PCR

REVISION

V. TEST PROCEDUREMethod 1

A. Equipment needed:

- a. DVM SD7005A
- b. Clip-on milliammeter HP 428B
- c. Current Source 4-20 MA
- d. Scope TEK R5103N
- e. Oscillator HP 3300A
- f. Power amp Harr. 6823A

NOTE: All settings and measurements are ± 1 MVDC unless specified otherwise.

B. Patched program is as shown in Fig. A.

C. GENERAL PROCEDURE

Before plugging board in:

1. Adj. VR1 CCW.
2. ALL SWITCHES DOWN.

Plug in Board:

3. Check test supply voltages.
4. Check Crt. Bd. supply voltages at TP1 and TP2 for ± 15.7 and -15.7 VDC (Tol. ± 1.0 VDC).
5. SW 11 up - Grd. TP5.
6. Adj. offset (VR 50) of IC 1 for 0 VDC at TP4.
7. SW 11 down.
8. Adj. offset (VR 51) of IC 2 for 0 VDC at TP3.
9. S10 up - S11 up - Adj. current source for -5.00 MA.

PRINTS

MADE BY

R.S. Gordon Mar. 20, 1973

APPROVALS

Steam Turbine

DIV OR
DEPT.

P3K-AL-0314-A01

ISSUED

MAR 20 1973

Schenectady, N.Y.

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10. Check TP6 volts for -1.505 to 1.535 VDC.
11. Adj. current source for -1.500 VDC at TP6.
12. Check range of VR2 at TP4. (Also at BP3, BP5 and BP6).

CW

CCW

+3.830/4.262

+2.490/2.592

13. Adj. current source for -5.00 MA.
14. Adj. VR2 at TP4 for ~~-3.125~~ VDC. (FINAL SETTING)
15. Adj. current source for -4.00 MA
16. Unground TP5.
17. Check range of VR3 at TP5.

CW

CCW

0/+4 MVDC

+2.360/+2.720

18. Adj. VR3 for 0 VDC at TP4.
19. Check linearity of pressure amp.

Current Source

TP4 Volts

- 4.00 MA	0
- 8.00	+ 2.500 VDC ± 2 MV
- 12.00	+ 5.000 5
- 16.00	+ 7.500 7
- 20.00	+ 10.000 10

20. With -20.00 MA applied, adj. VR1 for 1.0 MA deflection of MA meter.
21. Check saturation levels (> +12.5 VDC) of IC 1 (TP4) and IC 2 (TP3) by applying +25.00 MA and then -25.00 MA.

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EHC MARK II

REVISION:

D. NOISE SUPPRESSION LAG TEST

22. Verify the noise suppression lag in the pressure amplifier by connecting the scope, signal generator and amplifiers as shown in Fig. A.

SET: CH1 to 1.0 volt/div.
CH2 to 0.5 volt/div.

Signal Frequency to 1.0 HZ
Signal Amplitude to 4 volts p-p

S-10 down
S-9 up

Measure output at junction of R5 and R6 with CH2. CH2 deflection should equal that of CH1 (4 DIV).

Increase frequency while holding CH1 deflection to 4 DIV. Observe frequency at which CH2 deflection drops to 2.8 DIV. (1.40 volts). Frequency must be between 86 and 97 Hertz.

PRINTS TO

MADE BY

R. Gordon Mar. 20, 1973

APPROVALS

Steam Turbine

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Schenectady, N.Y.

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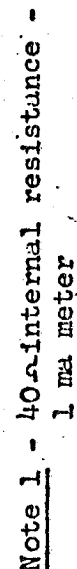
8

SH NO.

7

REV NO. 

FIRST MADE FOR EHC MARK II



PRINTS TO

SH NO. 8

REV.
NO. 0

TITLE

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SH NO. 9

P3K-AL-0314-A01

TEST INSTRUCTIONS FOR THE REHEAT PRESSURE SENSOR

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SH NO. 9

FIRST MADE FOR EHC MARK II (PLU AND EVA)

REVISIONS

SPECIFICATION PREPARED BY

R.S. GordonDATE JAN 25, 1973

R.S. Gordon

EHC DESIGN ENGINEERING

APPROVED BY

P.C. CallanDATE 3-8-73

P.C. Callan - MANAGER

EHC DESIGN ENGINEERING

TEST PROCEDURE
PREPARED BYC. BuggDATE FEB 16, 1973

C. Bugg

EHC TEST ENGINEER

REVIEWED BY

R.S. GordonDATE FEB 27, 1973

R.S. Gordon

EHC DESIGN ENGINEER

PRINTS TO

MADE BY

R.S. Gordon Mar. 20, 1973

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