

REV. NO.

TITLE

P3K-AL-0347-A01

CIRCUIT BOARD TEST SPECIFICATION  
REMOTE OPERATION AUXILIARY RELAY 24V - 118D1571  
FIRST MADE FOR

CONT ON SHEET 2 SH NO. 1

REVISIONS

Refer to the drawing to see that:

1. All of the relay coils use 24 VDC.
2. The common of all relays is connected to one input terminal.
3. The case ground of all relays is connected to one input terminal.
4. The high side of each relay coil goes to a separate input terminal.
5. Each relay has one form C set of output contacts "wired out" -- all are independently connected to output terminals.
6. There are no interconnections on the card except the coil commons and case grounds of the relays.

The relay specifications are in the "U" sheets.

With the minus side of the appropriate power source connected to the  $\nabla$  24 terminal and the appropriate plus applied (app) and removed (rem) alternately to coil terminals, the relays pick up and drop out as shown in the chart. A one (1) indicates an energized relay. A zero (0) indicates a de-energized relay and is usually omitted from the chart - for clarity.

	K1	K2	K3	K4	K5	K6	K7	K8
1. TB3-25 App	1							
Rem								
2. TB3-26 App		1						
Rem								
3. TB3-27 App			1					
Rem								
4. TB3-28 App				1				
Rem								
5. TB3-29 App					1			
Rem								
6. TB3-30 App						1		
Rem								
7. TB3-31 App							1	
Rem								
8. TB3-32 App								1
Rem								

ACTIVE

FOR

H/

BY

HC

DATE

7/11/77

273-221

273-227

273-2

273-12

273-138

273-71

PRINTS TO

MADE BY

D.Mone Jan. 15, 1975

APPROVALS

Steam Turbine

DIV OR  
DEPT.

P3K-AL-0347-A01

ISSUED

JAN 15 1975

Schenectady, N.Y.

LOCATION

CONT ON SHEET 2

SH NO. 1

REV NO. / <div style="border: 1px solid black; padding: 5px; margin: 5px 0;">P3K-AL-0347-A01</div> CONT ON SHEET 3 SH NO. 2	<div style="border: 1px solid black; padding: 5px; margin: 5px 0;">           TITLE            TEST INSTRUCTION FOR REMOTE OPERATION            AUX. RELAY            FIRST MADE FOR MK II         </div>					
<div style="margin-bottom: 20px;"><u>TEST INSTRUCTIONS</u></div> <div style="margin-bottom: 20px;">           Assembly                      118D1571            Schematic                    117D9997         </div> <div> <u>PROCEDURE:</u>             A. Refer to P3K-AL-0494-A02 for test circuits, equipment list, and set up instructions.             B. Table A provides the step by step procedure to follow in testing this circuit.             C. Table B provides a step by step description of input voltages (to use as a troubleshooting aid).         </div>						
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 30%;">MADE BY D.Mone Jan. 15, 1975</td> <td style="width: 20%;">APPROVALS</td> <td style="width: 20%;">           Steam Turbine            Schenectady         </td> <td style="width: 10%;">           DIV OR DEPT.            LOCATION         </td> <td style="width: 20%;">           P3K-AL-0347-A01            CONT ON SHEET 3 SH NO. 2         </td> </tr> </table>		MADE BY D.Mone Jan. 15, 1975	APPROVALS	Steam Turbine Schenectady	DIV OR DEPT. LOCATION	P3K-AL-0347-A01 CONT ON SHEET 3 SH NO. 2
MADE BY D.Mone Jan. 15, 1975	APPROVALS	Steam Turbine Schenectady	DIV OR DEPT. LOCATION	P3K-AL-0347-A01 CONT ON SHEET 3 SH NO. 2		

REVISIONS

1 D.Mone JUN 2 1975

Rep'd &amp; Replaced

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TEST INSTRUCTION FOR REMOTE OPERATION AUXILIARY RELAY

CONT ON SHEET 4

SH NO. 3

FIRST MADE FOR

MK II

ACTION	VOLTAGE AT PINS										REVISIONS
	1	3	4	6	7	9	10	12	13	15	
STEP 1 INIT COND											<div style="writing-mode: vertical-rl; transform: rotate(180deg);"> 1 0.0000 JUN 2 1975  <i>R. J. G. Johnson</i> </div>
STEP 2 APP P2	A	Ø									
STEP 3 APP P5			A	Ø							
STEP 4 APP P8					A	Ø					
STEP 5 APP P11							A	Ø			
STEP 6 APP P14									A	Ø	
STEP 7 APP P17											
STEP 8 APP P20											
STEP 9 APP P23											
STEP 10 APP P25	Ø	A									
STEP 11 REM P25	A	Ø									
STEP 12 APP P26			Ø	A							
STEP 13 REM P26			A	Ø							
STEP 14 APP P27					Ø	A					
STEP 15 REM P27					A	Ø					
STEP 16 APP P28							Ø	A			
STEP 17 REM P28							A	Ø			
STEP 18 APP P29									Ø	A	
STEP 19 REM P29									A	Ø	
STEP 20 APP P30											
STEP 21 REM P30											
STEP 22 APP P31											
STEP 23 REM P31											
STEP 24 APP P32											
STEP 25 REM P32											

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SH NO. 3

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TEST INSTRUCTION FOR REMOTE OPERATION AUXILIARY RELAY

CONT ON SHEET 6

SH NO. 5

FIRST MADE FOR

MK II

ACTION

VOLTAGE AT PINS

REVISION:

16

18

19

21

22

24

JUN 2 1976

110.7 mpa  
Lan a. Retired

STEP 1 INIT COND

STEP 2 APP P2

STEP 3 APP P5

STEP 4 APP P8

STEP 5 APP P11

STEP 6 APP P14

STEP 7 APP P17

A

Ø

STEP 8 APP P2Ø

A

Ø

STEP 9 APP P23

A

Ø

STEP 1Ø APP P25

STEP 11 REM P25

STEP 12 APP P26

STEP 13 REM P26

STEP 14 APP P27

STEP 15 REM P27

STEP 16 APP P28

STEP 17 REM P28

STEP 18 APP P29

STEP 19 REM P29

STEP 2Ø APP P3Ø

Ø

A

STEP 21 REM P3Ø

A

Ø

STEP 22 APP P31

Ø

A

STEP 23 REM P31

A

Ø

STEP 24 APP P32

Ø

A

STEP 25 REM P32

A

Ø

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5

REV NO.

TITLE

CONT ON SHEET

7

SH NO.

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TEST INSTRUCTION FOR REMOTE OPERATION AUXILIARY RELAY

CONT ON SHEET

7

SH NO.

6

FIRST MADE FOR

MK II

ACTION

VOLTAGE AT PINS

REVISION

16

18

19

21

22

24

STEP 26 REM P23

STEP 27 REM P20

STEP 28 REM P17

STEP 29 REM P14

STEP 30 REM P11

STEP 31 REM P8

STEP 32 REM P5

STEP 33 REM P2

1 D.MONE JUN 2 1976

R. J. a. [Signature]

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SH NO. 6

REV NO. /  
P3K-AL-0347-A01  
CONT ON SHEET 8 SH NO. 7

TITLE  
TEST INSTRUCTION FOR REMOTE OPERATION AUXILIARY RELAY  
FIRST MADE FOR MK II

ACTION	INPUT AT PINS										REVISED
	2	5	8	11	14	17	20	23	25	26	
STEP 1											10.9.76 JUN 2 1976 K. J. & R. J. & R. J.
STEP 2 APP P2	X										
STEP 3 APP P5	X	X									
STEP 4 APP P8	X	X	X								
STEP 5 APP P11	X	X	X	X							
STEP 6 APP P14	X	X	X	X	X						
STEP 7 APP P17	X	X	X	X	X	X					
STEP 8 APP P20	X	X	X	X	X	X	X				
STEP 9 APP P23	X	X	X	X	X	X	X	X			
STEP 10 APP P25	X	X	X	X	X	X	X	X	X		
STEP 11 REM P25	X	X	X	X	X	X	X	X			
STEP 12 APP P26	X	X	X	X	X	X	X	X		X	
STEP 13 REM P26	X	X	X	X	X	X	X	X			
STEP 14 APP P27	X	X	X	X	X	X	X	X			
STEP 15 REM P27	X	X	X	X	X	X	X	X			
STEP 16 APP P28	X	X	X	X	X	X	X	X			
STEP 17 REM P28	X	X	X	X	X	X	X	X			
STEP 18 APP P29	X	X	X	X	X	X	X	X			
STEP 19 REM P29	X	X	X	X	X	X	X	X			
STEP 20 APP P30	X	X	X	X	X	X	X	X			
STEP 21 REM P30	X	X	X	X	X	X	X	X			
STEP 22 APP P31	X	X	X	X	X	X	X	X			
STEP 23 REM P31	X	X	X	X	X	X	X	X			
STEP 24 APP P32	X	X	X	X	X	X	X	X			
STEP 25 REM P32	X	X	X	X	X	X	X	X			
											PRINTS TO
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P3K-AL-0347-A01

CONT ON SHEET 9 SH NO. 8

TITLE

TEST INSTRUCTION FOR REMOTE OPERATION AUXILIARY RELAY

FIRST MADE FOR MK II

ACTION	INPUT AT PINS										REVISION:
	2	5	8	11	14	17	20	23	25	26	
STEP 26 REM P23	X	X	X	X	X	X	X				1 0.47002 JUN 2 1976 R. A. Howard
STEP 27 REM P20	X	X	X	X	X	X					
STEP 28 REM P17	X	X	X	X	X						
STEP 29 REM P14	X	X	X	X							
STEP 30 REM P11	X	X	X								
STEP 31 REM P8	X	X									
STEP 32 REM P5	X										
STEP 33 REM P2											

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NO.

TITLE

P3K-AL-0347-A01

TEST INSTRUCTION FOR REMOTE OPERATION AUXILIARY RELAY

CONT ON SHEET 10 SH NO. 9

FIRST MADE FOR MK II

ACTION

INPUT AT PINS

REVISIONS

STEP 1

STEP 2 APP P2

STEP 3 APP P5

STEP 4 APP P8

STEP 5 APP P11

STEP 6 APP P14

STEP 7 APP P17

STEP 8 APP P20

STEP 9 APP P23

STEP 10 APP P25

STEP 11 REM P25

STEP 12 APP P26

STEP 13 REM P26

STEP 14 APP P27

X

STEP 15 REM P27

STEP 16 APP P28

X

STEP 17 REM P28

STEP 18 APP P29

X

STEP 19 REM P29

STEP 20 APP P30

X

STEP 21 REM P30

STEP 22 APP P31

X

STEP 23 REM P31

STEP 24 APP P32

X

STEP 25 REM P32

1 0.49996 JUN 2 1976  
R. J. G. Schenectady

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D. Mone Jan. 15, 1975

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LOCATION

CONT ON SHEET 10 SH NO. 9

REV  
NO.

P3K-AL-0347-A01

TITLE

TEST INSTRUCTION FOR REMOTE OPERATION AUXILIARY RELAY

CONT ON SHEET 11 SH NO. 10

FIRST MADE FOR MK II

ACTION

INPUT AT PINS

REVISIONS

27

28

29

30

31

32

STEP 26 REM P23

STEP 27 REM P20

STEP 28 REM P17

STEP 29 REM P14

STEP 30 REM P11

STEP 31 REM P8

STEP 32 REM P5

STEP 33 REM P2

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P. H. Howard

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D. Mone Jan. 15, 1975

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LOCATION

CONT ON SHEET 11

SH NO.

REV  
NO.

TITLE

CONT ON SHEET

SH NO. 11

P3K-AL-0347-A01

CIRCUIT BOARD TEST SPECIFICATION

CONT ON SHEET

SH NO.

11

REMOTE OPERATION AUXILIARY RELAY 24V - 118D1571  
FIRST MADE FOR

REVISIONS

1 07 MAR JUN 2 1976

Added Eng

PREPARED BY

*George W. Kessler*

DATE

4/2/73

G.W. Kessler  
EHC DESIGN ENGINEERING

APPROVED BY

*P.C. Callan*

DATE

1-13-75

P.C. Callan - MANAGER  
EHC DESIGN ENGINEERING

TEST PROCEDURE

PREPARED BY

*Carl R. Bugg*

DATE

12/5/74

C. Bugg  
EHC TEST ENGINEER

TEST PROCEDURE APPROVED BY

*George W. Kessler*

DATE

1/6/75

G.W. Kessler  
EHC DESIGN ENGINEERING

PRINTS TO

MADE BY

D.Mone June 2, 1976

APPROVALS

Steam Turbine

DIV OR  
DEPT.

ISSUED

Schenectady, New York

LOCATION

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SH NO. 10