



DCA16MR011
NJT
Collision of Train 1614
Hoboken Station
Hoboken, NJ
September 29, 2016

Attachment 11

**EPIC II WI1050-WGS Rev B – System test
results**

WABTEC GLOBAL SERVICES Q.A. Test Procedure Data Sheet
EPIC® II System/Comet V Brake Equipment Single End Cab Car Alstom/NJT

19722 SN 0350053 WI1050-WGS
PO# of POU: _____ S# of BCU: 19724 Date: 1/17/17 Tested By: [Redacted]
SN. 0371784

WHEN APPLICABLE, CIRCLE "A" (ACCEPT) OR CIRCLE "R" (REJECT) TO INDICATE TEST RESULTS; ALL OTHERS, WRITE IN TEST VALUES.

NOTE: Each Test section has a Page # referencing the relevant TP Page #.

BRAKE CYLINDER REGULATING VALVE TEST: Page 6

Step #8 BC = 84 (± 2) psi 82
All remaining steps (A) R

AUTOMATIC APPLICATION AND RELEASE TEST: Pages 7-8

Step# 1 handle to service and then back to lap position:
EQR = 104 (- 1) psi. 104
BP = 104 (- 1) psi. 104
BC = 10 (+5 -0)psi. 12

Step# 2 movement of handle through application zone.
Incremental reduction of EQR and BP
and incremental increase in BC:
(A) R

Step# 3 handle in service and back to lap position:
EQR = 76 (± 2) psi 76
BP = 76 (± 2) psi 76
BC = 62 (± 2) psi 60

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AUTOMATIC APPLICATION AND RELEASE TEST (continued): Pages 7-8

Step #4 handle to handle off position:

EQR = 0 (+ 2) psi 0

BP = 0 (+ 2) psi 0

BC = 62 (± 2) psi 60

Step #5 handle to emergency position:

EQR = 0 (+ 2) psi 0

BP = 0 (+ 2) psi 0

BC = 72 (+1 -2) psi 72

Step #6 make a 34 psi reduction until EQR = 76 psi

BC = 62 (± 2) psi 60

CUT-OUT TEST: Page 9

Step #3 system to Lead cut-out mode:

EQR = NO CHANGE (A) 110 R

BP = NO CHANGE (A) _____ R

BC = NO CHANGE (A) _____ R

Step #5 handle to HO and back to RELEASE:

EQR = 110 (± 2) psi. (A) 110 R

BP = NO CHANGE (A) _____ R

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BC = NO CHANGE

A _____ R

TLAR APPLICATION TRAINLINE INPUT: RLY2 Page10

All steps accepted

A _____ R

TLHR HOLDING TRAINLINE INPUT: RLY3 Page10

Step #1 BC increases to some value:

A 31 _____ R

Step #3 handle to RELEASE position:

BC holds the same as in Step 1

A _____ R

Step #4 Switch RLY3 to INACTIVE:

BC = 0 (+ 2) psi.

0 _____

TLER EMERGENCY TRAINLINE INPUT: RLY4 Page11

All steps accepted

A _____ R

CAR - CAB ACTIVATION INPUT: RLY5 Page11

All steps accepted

A _____ R

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SBR - SNOW BRAKE INPUT: RLY8 Page12

Step #1 Switch RLY8 to ACTIVE:
BC = 10 (\pm 2) psi. 10

Step #2 34 psi. reduction in EQR:
BC = 62 (\pm 2) psi. 60

Step #3 handle to RELEASE position:
BC = 0 (+ 2) psi. 0

and after 15 seconds:
BC = 10 (\pm 2) psi. 10

Step #4 RLY8 to INACTIVE:
BC = 0 (+ 2) psi. 0

DIAG A - CLASS A FAULT: RLY9 Page12

Step #2 34 psi reduction in EQR:
RLY9 light extinguishes A R

Step #4 magnet valve wires re-attached to BC
portion:
RLY9 light illuminates A R

OTR - ON BOARD TEST: RLY 10 Page12

Step #1 handle to service position:
RLY10 light illuminates when
BC > 25 psi. A R

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Step #2 handle to release position:

RLY10 light extinguishes when:

BC < 19 psi.

A _____ R

DUAL - OPTO ISOLATOR FAULT DIAG B: RLY11 Page13

All steps accepted

A _____ R

PSR - PERMANENT SUPPRESSION TEST: RLY12 Page14

Step #1 handle to service position:

RLY12 illuminates when:

BC > 46 psi.

A _____ R

Step #2 handle to release position:

RLY12 light extinguishes when:

BC < 42 psi.

A _____ R

ABCR - ALERTER BRAKE CYLINDER CHECK: RLY13 Page14

Step #1 handle to service position:

RLY13 illuminates when:

BC > 25 psi.

A _____ R

Step #2 handle to release position:

RLY13 light extinguishes when:

BC < 24 psi.

A _____ R

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PSIR - PERMANENT SUPPRESSION INITIALIZATION: RLY13 Page14

Step #1 handle to service position:

RLY14 illuminates A _____ R

2 handle to LAP position after
an 8-10 psi reduction.

RLY14 extinguishes A _____ R

PSIR - PERMANENT SUPPRESSION INITIALIZATION (continued): RLY14 Page14

3
Step #2 handle to release position:

RLY14 light remains off when
BP < 6 psi below release pressure
A _____ R

4
Step #3 handle to HO position:
RLY14 illuminates

A _____ R

5
Step #4 handle to release position:

RLY14 light extinguishes when
BP < 6 psi below release pressure
A _____ R

9/35 Pipe - PORT 35 REPRESENTATION TEST: RLY15 Page15

Step #1 trainline emergency is initiated
and 9/35 light is illuminated

A _____ R

HOR - HANDLE OFF INDICATION: RLY16 Page15

Step #1 handle to hold position:

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RLY16 (HOR light) is extinguished

A _____ R

Step #2 handle to lap position:

RLY16 (HOR light) is extinguished

A _____ R

Step #3 handle to service position:

RLY16 (HOR light) is extinguished

A _____ R

Step #4 handle to handle off position:

RLY16 (HOR light) is illuminated

A _____ R

Page 7

ESXR - EMERGENCY SANDING RELAY SWITCH: RLY17

PKOR - POWER KNOCKOUT RELAY TESTS: RLY18 Page16

Step #2 handle to emergency position:

RLY17 illuminates for 5 sec.

A _____ R

RLY18 (PKOR light) extinguishes

A _____ R

Step #3 RLY17 (ESXR LIGHT) illuminates

A _____ R

Step #4 RLY17 (ESXR LIGHT) extinguishes

A _____ R

Step #6 handle to release position:

RLY18 illuminates

A _____ R

TLEC - EMERGENCY TRAINLINE: RLY19

TLAC - E-P HANDLE APPLY COMMAND: RLY20

TLHC - E-P AUTO HANDLE HOLDING COMMAND: RLY21 Page17

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Step #1 Auto handle in the release position:
RLY19, RLY20, AND RLY21 lights are OFF

A _____ R

Step #2 Auto handle to hold position:
RLY21 illuminates

A _____ R

Step #3 Auto handle to lap position:
RLY21 remains illuminated

A _____ R

Step #4 Auto handle to service position:
RLY21 remains illuminated and
RLY20 illuminates

A _____ R

Page 8

RLY19, RLY20, AND RLY21 SWITCH TESTS (continued):

Step #5 Auto handle to handle OFF position:
RLY20 and RLY21 remain illuminated

A _____ R

Step #7 Auto handle to EMERGENCY position:
RLY19 and RLY20 are illuminated
while RLY21 is extinguished

A _____ R

Step #8 Auto handle to release:

RLY19, RLY20 and RLY21 are extinguished

A _____ R

CCS1 and CCS1 Enable CAB CODED SIGNAL SYSTEM TEST
(on test box): Page18

Step #2 Switch CCS1 enable to ACTIVE
EQR = 0 (+ 2) psi.

0

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BP = 0 (+ 2) psi. 9

BC = 62 (± 2) psi. 60

Step #5 Auto handle to lap position for 8 Sec:
penalty message on display screen
no longer present. A R

CS2 and CCS2 Enable CAB CODED SIGNAL SYSTEM TEST
(on test box): Page18

Step #2 Switch CCS2 enable ACTIVE
EQR = 0 (+ 2) psi. 0

BP = 0 (+ 2) psi. 10

BC = 62 (± 2) psi. 60

Step #5 Auto handle to lap position for 8 sec:
penalty message on display screen
no longer present. A R

END