

## **2013 PACCAR MX-13**

# Diagnostic Service Manual EPA2013

#### (U0101 to U1574)



#### **Index**

```
        U0101
        U0103
        U0104
        U0105
        U0106
        U0120
        U0129
        U0133
        U0141
        U0143
        U0155
        U0156
        U0157
        U0404

        U1011
        U1014
        U1015
        U1016
        U1040
        U1069
        U1071
        U1073
        U1074
        U1104
        U1105
        U1110
        U1112
        U1114

        U1118
        U1118
        U1110
        U1110
        U1120
        U1122
        U1124
        U1126
        U112A
        P112C
        P112D
        U112F
        U1130

        U1132
        U1134
        U1136
        U1138
        U1130
        U1144
        U1145
        U1147
        U1149
        U114A
        U114D
        U1150
        U1154

        U1159
        U1160
        U1161
        U1163
        U1164
        U1165
        U1167
        U1168
        U1179
        U117A
        U117C
        U1184
        U1188
        U1190

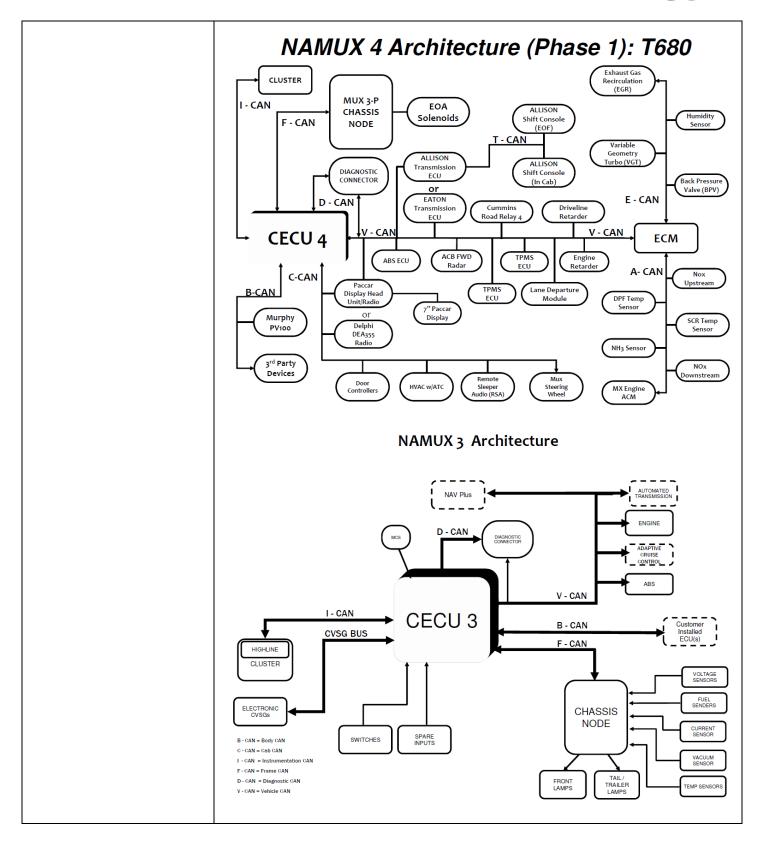
        U1194
        U1198
        U1208
        U1404
        U1405
        U1408
        U1409
        U140A
        U142F
        U1501
        U1502
        U1538
        U1564

        U1566
        U1571
```

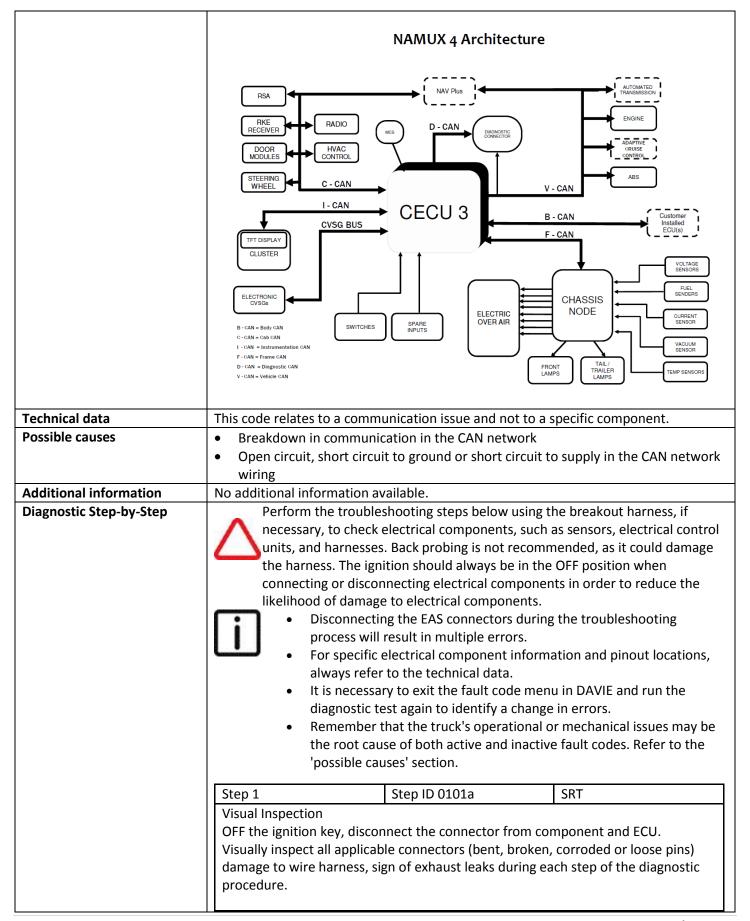


Code number	U0101	
Fault code description	CAN communication - Message (ETC7) rate too low from transmission system	
Fault code information	3 drive cycle recovery	
	Readiness group – None	
	Freeze frame type – Generic	
Description of component(s)	This code relates to a communication issue and not to a specific component.	
Location of component(s)	This code relates to a communication issue and not to a specific component.	
Diagnostic condition	This diagnostic runs continuously when the ignition is on.	
Set condition of fault code		
Reset condition of fault code	This DTC changes to inactive as soon as the error is no longer detected.	
Electrical diagram(s)		
	NAMUX 3 Architecture: 2010 B-Cab    STEERING   WHEEL   Aftertreatment CAN   ENGINE   CONNECTOR   CONNE	











	Was there evidence of	any of the above?	
	No: Proceed to	step 2.	
	Yes: Make the a	appropriate repairs or cor	mponent replacements.
	Use DAVIE to re-check t	or the presence of active	faults.
	If this related fa	ult is no longer active, th	en this issue has been resolved.
	<ul> <li>If this related fa</li> </ul>	ult is still active, Proceed	to step 2
	Step 2	Step ID 0101b	SRT
	Data check		
	·	nnical data of the specific	•
	Perform the ch	ecking data test of the sp	ecific component
	Is test pass?		
	No: Proceed to	step 3	
	Yes : Proceed to	•	
		·	
	Step 3	Step ID 0101c	SRT
	Repair or replace comp	onent	
		-	neck for electrical connection and
	wiring harness		
	Reconnect the		
	ON the ignition	•	
		or the presence of active	faults:
		ve: Proceed to step 4	
	Is DTC fault inaction	ctive: Issue resolved. Clea	ar inactive fault.
	Step 4	Step ID 0101d	SRT
	· ·		for confirmation prior to the
			Engine Support Call Center at
	1-800-477-0251	,,	3
Verification Drive Cycle	To validate the repair, w	th the brakes set, turn th	e key to the ON position with the
	· ·	-	initialize and run diagnostics.
	With the brakes set, star	t the engine and allow it t	to run at idle for 2 minutes.
			Back to Index
			<u>Dack to muex</u>

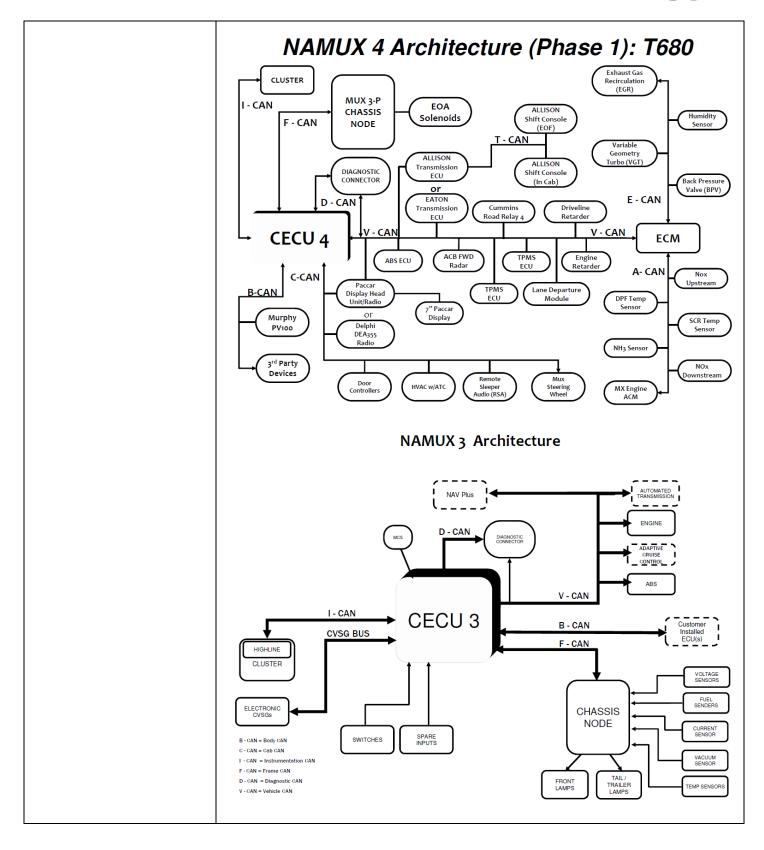


Code number	U0103
Fault code description	CAN communication - Message (ETC2) rate too low from transmission system
	Diagnostic and supporting information for this DTC is available in Engine Rapido.
	Back to Index

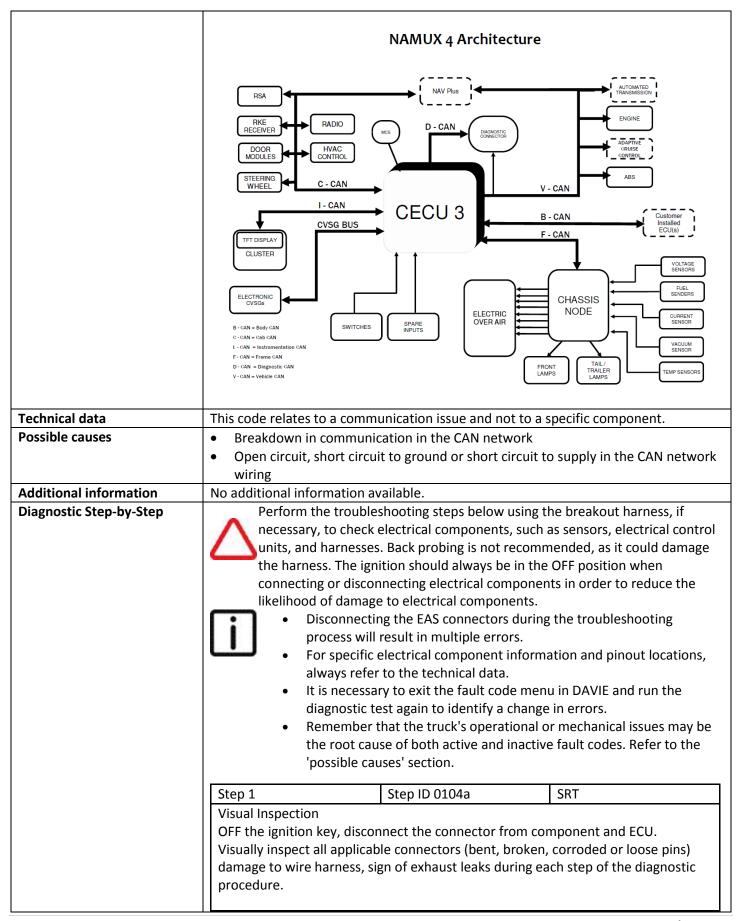


Code number	U0104	
Fault code description	CAN communication - Message (CCVS) rate too low from vehicle controller	
Fault code information	3 drive cycle recovery	
	Readiness group – None	
	Freeze frame type – Generic	
Description of component(s)	This code relates to a communication issue and not to a specific component.	
Location of component(s)	This code relates to a communication issue and not to a specific component.	
Diagnostic condition	This diagnostic runs continuously when the ignition is on.	
Set condition of fault code		
Reset condition of fault code	This DTC changes to inactive as soon as the error is no longer detected.	
Electrical diagram(s)		
	NAMUX 3 Architecture: 2010 B-Cab  FIREWALL Aftertreatment CAN  FIREWALL AFTERING WHEEL  DIAGNOSTIC CONNECTOR  PACCAR DISPIBY  Vehicle CAN  Vehicle CAN  Vehicle CAN  FIREWALL  Aftertreatment CAN  Vott Actuator  Actuator  FUEL SENSORS  FUEL SENSORS  SWITCHES  SPARE INPUTS  FRAME INPUTS  FRAME INPUTS  FRAME INPUTS  FIREWALL  FI	











	Was there evidence of any of the above?
	No: Proceed to step 2.
	Yes: Make the appropriate repairs or component replacements.
	Use DAVIE to re-check for the presence of active faults.
	If this related fault is no longer active, then this issue has been resolved.
	<ul> <li>If this related fault is still active, Proceed to step 2</li> </ul>
	if this related fault is still active, i roceed to step 2
	Step 2 Step ID 0104b SRT
	Data check
	Lookup the technical data of the specific system
	Perform the checking data test of the specific component
	Is test pass?
	Is test pass?  No: Proceed to step 3
	Yes : Proceed to step4
	restricted to step i
	Step 3 Step ID 0104c SRT
	Repair or replace component
	Repair or replace the component, also check for electrical connection and wiring harness .
	Reconnect the connector
	ON the ignition key
	Use DAVIE to re-check for the presence of active faults:
	Is DTC fault active: Proceed to step 4  Is DTC fault inactive y leave received. Clean inactive fault.
	Is DTC fault inactive : Issue resolved. Clear inactive fault.
	Step 4 Step ID 0104d SRT
	For further assistance in diagnosing this issue or for confirmation prior to the
	replacement of suspect components, contact the Engine Support Call Center at
	1-800-477-0251.
Verification Drive Cycle	To validate the repair, with the brakes set, turn the key to the ON position with the
	engine off, and allow 10 seconds for the system to initialize and run diagnostics.
	With the brakes set, start the engine and allow it to run at idle for 2 minutes.
	Back to Inc
	DdCK to IIIC

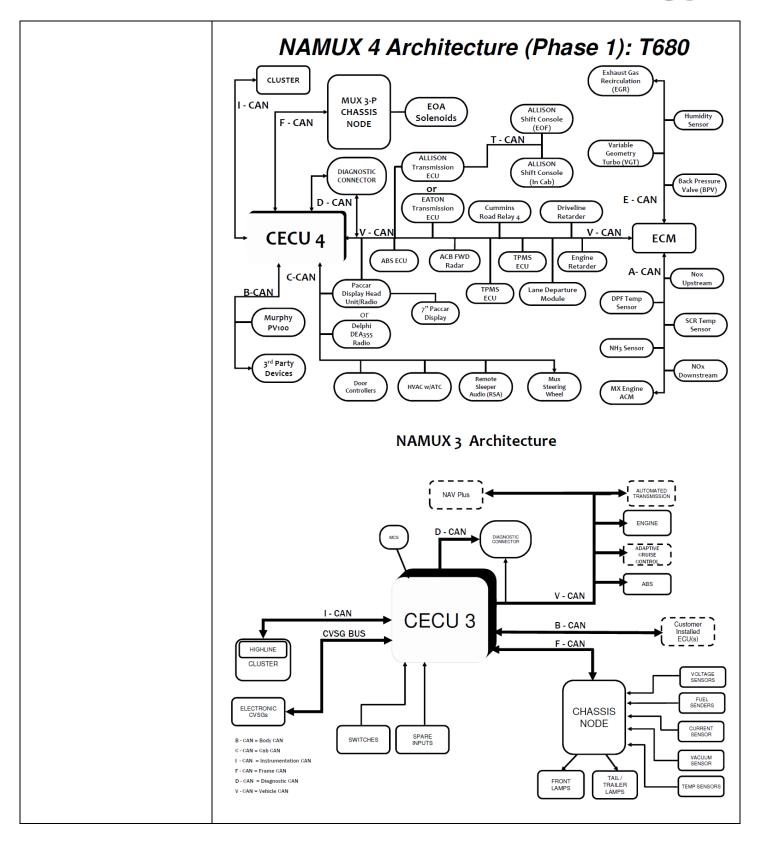


Code number	U0105
Fault code description	CAN communication - Message (TESTRUN_INFO) rate too low from emission system
	Diagnostic and supporting information for this DTC is available in Engine Rapido.
	Back to Index

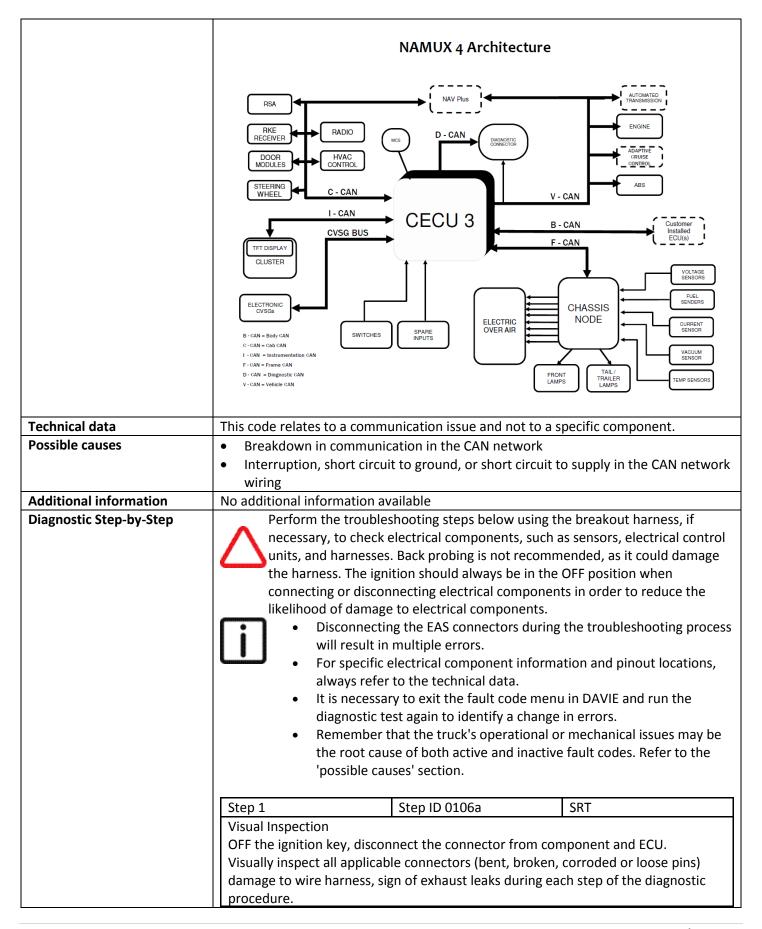


Code number	U0106	
Fault code description	CAN communication - Message (CCVS_EBS) rate too low from brake system	
Fault code information	3 drive cycle recovery	
	Readiness group – None	
	Freeze frame type – Generic	
Description of component(s)	This code relates to a communication issue and not to a specific component.	
Location of component(s)	This code relates to a communication issue and not to a specific component.	
Diagnostic condition	This diagnostic runs continuously when the ignition is on.	
Set condition of fault code		
Reset condition of fault code	This DTC changes to inactive as soon as the error is no longer detected.	
Electrical diagram(s)		
	Diagnostic CAN  STEERING WHEEL  MCS  DIAGNOSTIC CONNECTOR  PACCAR DISPIAY  Vehicle CAN  Vehicle CAN  Vehicle CAN  CVSG BUS  CVSG BUS  Frame CAN  FIREWALL  Aftertreatment CAN  ENGINE CORRESC CONNECTOR  PACCAR Display  Voltage SENSORS  FUEL SENDERS  CURRENT SENSOR  FIREWALL  FRONT TAIL TEMP SENSOR  TAIL TEMP SENSOR  TEMP SENSORS	











	<ul> <li>Was there evidence of any of the above?</li> <li>No: Proceed to step 2.</li> <li>Yes: Make the appropriate repairs or component replacements.</li> <li>Use DAVIE to re-check for the presence of active faults.</li> <li>If this related fault is no longer active, then this issue has been resolved.</li> </ul>
	f this related fault is still active, Proceed to step 2
	Step 2 Step ID 0106b SRT
	Data check
	Lookup the technical data of the specific system
	Perform the checking data test of the specific component
	Is test pass?
	No: Proceed to step 3
	Yes : Proceed to step4
	Step 3 Step ID 0106c SRT
	Repair or replace component
	<ul> <li>Repair or replace the component, also check for electrical connection and wiring harness .</li> <li>Reconnect the connector</li> </ul>
	ON the ignition key
	Use DAVIE to re-check for the presence of active faults:
	Is DTC fault active: Proceed to step 4
	Is DTC fault inactive : Issue resolved. Clear inactive fault
	Step 4 Step ID 0106d SRT
	For further assistance in diagnosing this issue or for confirmation prior to the
	replacement of suspect components, contact the Engine Support Call Center at 1-800-477-0251.
Verification Drive Cycle	To validate the repair, with the brakes set, turn the key to the ON position with the engine off, and allow 10 seconds for the system to initialize and run diagnostics.  With the brakes set, start the engine and allow it to run at idle for 2 minutes.
	Back to Index

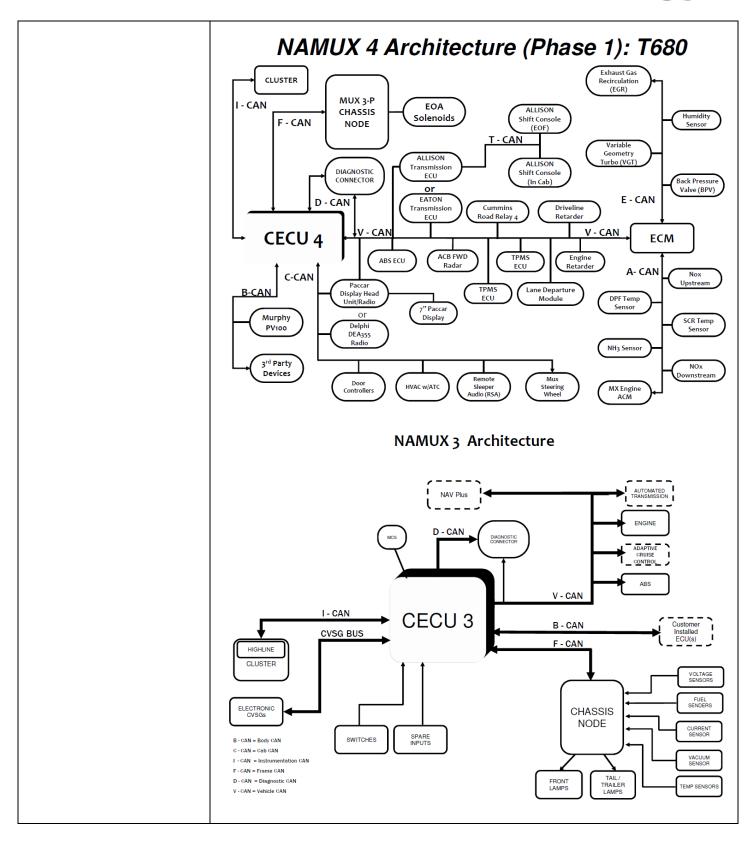


Code number	U0120
Fault code description	CAN communication - Message (ETC7) rate too low from transmission system
	Diagnostic and supporting information for this DTC is available in Engine Rapido.
	Back to Index

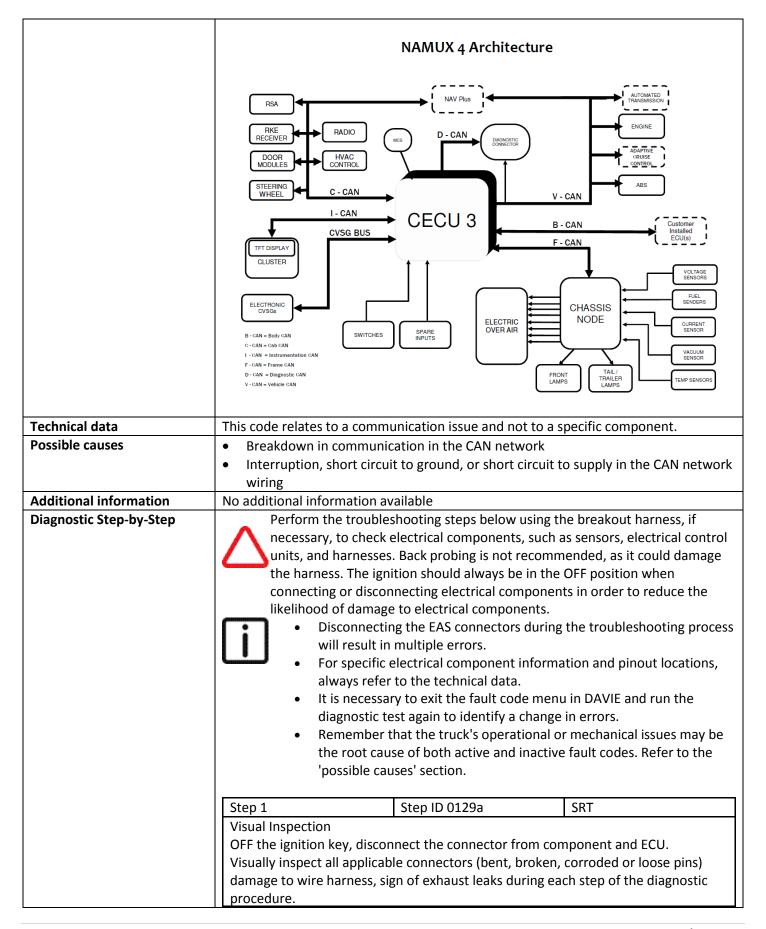


Code number	U0129	
Fault code description	CAN communication - Message (EBC1) rate too low from brake system	
Fault code information	3 drive cycle recovery	
	Readiness group – None	
	Freeze frame type – Generic	
Description of component(s)	This code relates to a communication issue and not to a specific component.	
Location of component(s)	This code relates to a communication issue and not to a specific component.	
Diagnostic condition	This diagnostic runs continuously when the ignition is on.	
Set condition of fault code		
Reset condition of fault code	This DTC changes to inactive as soon as the error is no longer detected.	
Electrical diagram(s)		
	Diagnostic CAN  STEERING WHEEL  MCS  DIAGNOSTIC CONNECTOR  PACCAR DISPlay  Vehicle CAN  Vehicle CAN  Vehicle CAN  CVSG BUS  CVSG BUS  Frame CAN  FRESURE SENSORS  SWITCHES  SPARE INPUTS  FIREWALL  Aftertreatment CAN  ENGINE  LAMPS  LAMPS  FIREWALL  Aftertreatment CAN  ENGINE  LAMPS  LAMPS  ENGINE  VOIT ACTUATION  VOIT AGE SENSORS  VOLTAGE SENSORS  VOLTAGE SENSORS  VACUUM SENSORS  TAIL TRAILER LAMPS  TAIL TEMP SENSORS	









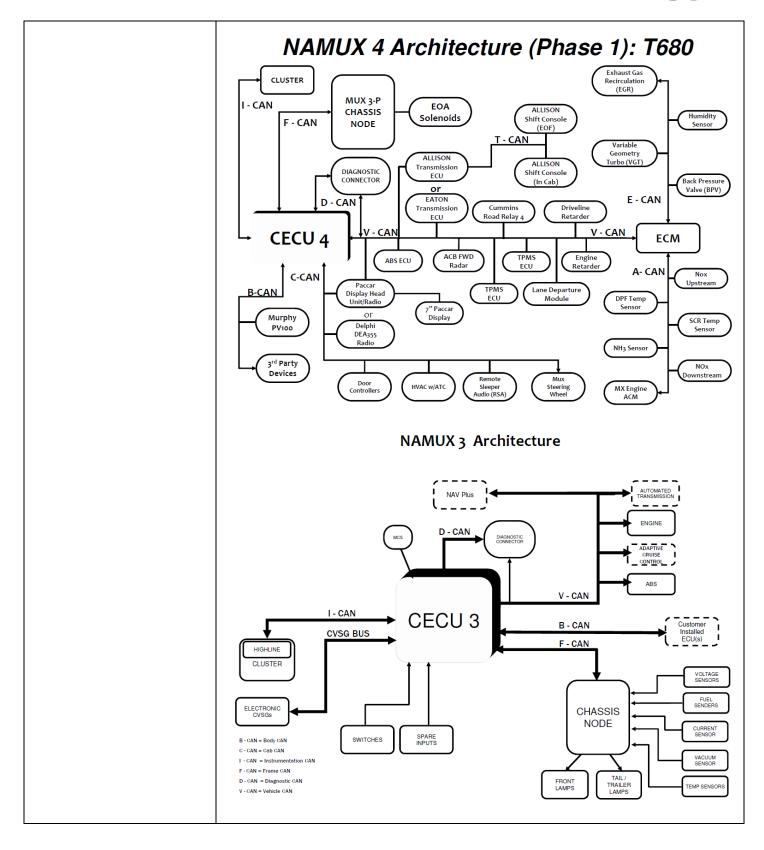


	Was there evidenc	e of any of the above?	
	No: Procee	d to step 2.	
	Yes: Make t	he appropriate repairs or com	ponent replacements.
	If this relate	eck for the presence of active t ed fault is no longer active, the d fault is still active, Proceed t	en this issue has been resolved.
	Step 2	Step ID 0129b	SRT
		•	-
	Step 3	Step ID 0129c	SRT
	wiring harn  Reconnect  ON the igni  Use DAVIE to re-che Is DTC fault	eplace the component, also chooses . the connector	
		Step ID 0129d ce in diagnosing this issue or for pect components, contact the	SRT or confirmation prior to the Engine Support Call Center at
Verification Drive Cycle	To validate the repair, with the brakes set, turn the key to the ON position with the engine off, and allow 10 seconds for the system to initialize and run diagnostics.  With the brakes set, start the engine and allow it to run at idle for 2 minutes.		
			Back to Index

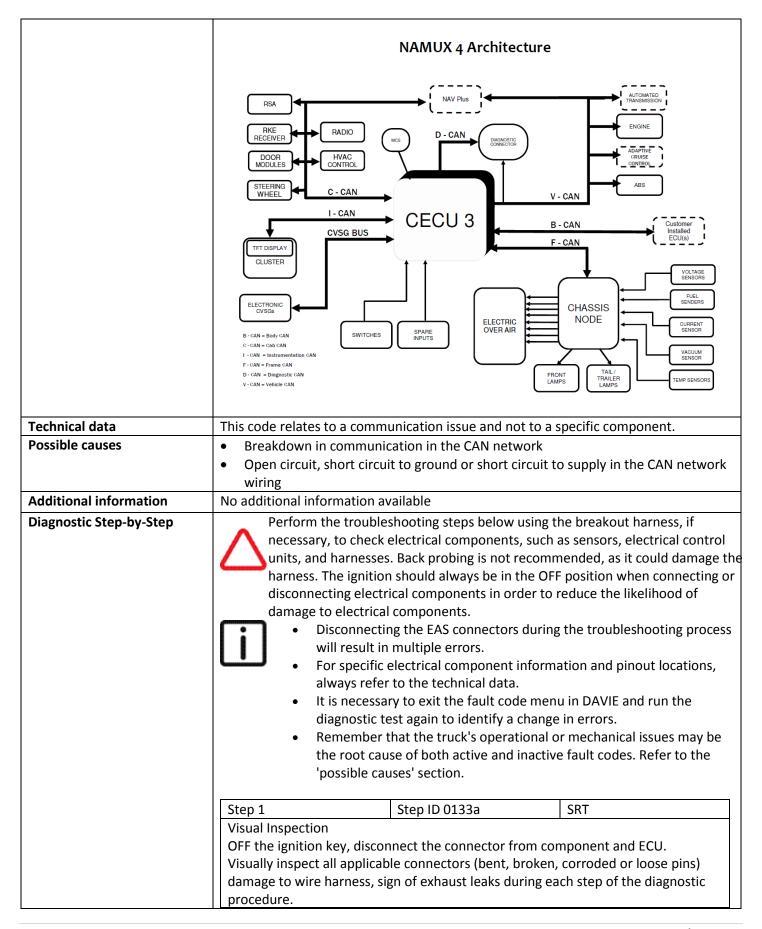


	U0133	
Fault code description	CAN communication - Message (VDC1) rate too low from brake system	
Fault code information	3 drive cycle recovery	
	Readiness group – None	
	Freeze frame type - Generic	
Description of component(s)	This code relates to a communication issue and not to a specific component.	
Location of component(s)	This code relates to a communication issue and not to a specific component.	
Diagnostic condition	This diagnostic runs continuously when the ignition is on.	
Set condition of fault code		
Reset condition of fault code	This DTC changes to inactive as soon as the error is no longer detected.	
Electrical diagram(s)	NAMUX 3 Architecture: 2010 B-Cab  FIREWALL Aftertreatment CAN  STEERING WHEEL  Diagnostic CAN  ITANISSION  PACCAR Display  Vehicle CAN  Vehicle CAN  CVSG BUS  SMITCHES  Frame CAN  FIREWALL  FIREWALL  After-treatment CAN  LABS  CVSG BUS  CVSG BUS  CVSG BUS  Frame CAN  FIREWALL  FIREWALL	











	Mac thor	e evidence of any	of the above?	
	<ul><li>Was there evidence of any of the above?</li><li>No: Proceed to step 2.</li></ul>			
		Yes: Make the appropriate repairs or component replacements.		
		res. Make the appropriate repairs of component replacements.		
	Use DAV	Use DAVIE to re-check for the presence of active faults.		
	If this related fault is no longer active, then this issue has been resolved.			
	•			
	Step 2		Step ID 0133b	SRT
	Data che	ck		
	Lookup the technical data of the specific system			system
	Perform the checking data test of the specific component			
	Is test pass?			
	No: Proceed to step 3			
	Yes : Proceed to step4			
	Step 3		Step ID 0133c	SRT
	Repair or replace component			
	Repair or replace the component, also check for electrical connection and			
	wiring harness.			
	Reconnect the connector			
	ON the ignition key			
	Use DAVIE to re-check for the presence of active faults:			
	Is DTC fault active: Proceed to step 4			
	Is DTC fault inactive: Issue resolved. Clear inactive fault			
			T	
	Step 4		Step ID 0133d	SRT
			-	r confirmation prior to the
	1 1 '	•	mponents, contact the E	Engine Support Call Center at
	1-800-47			
Verification Drive Cycle		•		key to the ON position with the
	_	engine off, and allow 10 seconds for the system to initialize and run diagnostics.		
	With the k	rakes set, start th	ie engine and allow it to	run at idle for 2 minutes.
				Dool, to Justice
				Back to Index



Code number	U0141
Fault code description	CAN communication - Message (TCO1) rate too low from tachograph
	Diagnostic and supporting information for this DTC is available in Engine Rapido.
	Back to Index



Code number	U0143
Fault code description	CAN communication - Message (EEC2) rate too low
	Diagnostic and supporting information for this DTC is available in Engine Rapido.
	Back to Index



Code number	U0155
Fault code description	CAN communication - Message (PROBA_BBM_to_Eng) rate too low from Body Builder Module
	Diagnostic and supporting information for this DTC is available in Engine Rapido.
	Back to Index



Code number	U0156
Fault code description	CAN communication - Message (PROPB VIC) rate too low from vehicle controller
	Diagnostic and supporting information for this DTC is available in Engine Rapido.
	Back to Index



Code number	U0157
Fault code description	CAN communication - Message (AMB) rate too low from vehicle controller
	Diagnostic and supporting information for this DTC is available in Engine Rapido.
	Back to Index



Code number	U0404
Fault code description	CAN communication - Message (ETC2) out of range - selected gear from transmission system
	Diagnostic and supporting information for this DTC is available in Engine Rapido.
	Back to Index

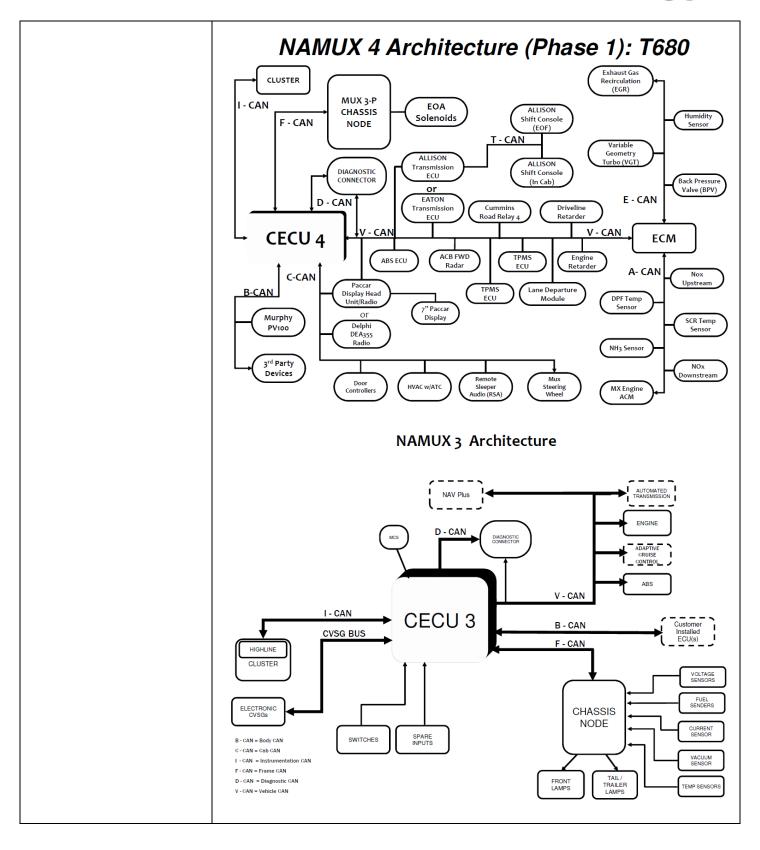


Code number	U1011
Fault code description	CAN communication - Hardware or software malfunction on E-CAN
	Diagnostic and supporting information for this DTC is available in Engine Rapido.
	Back to Index

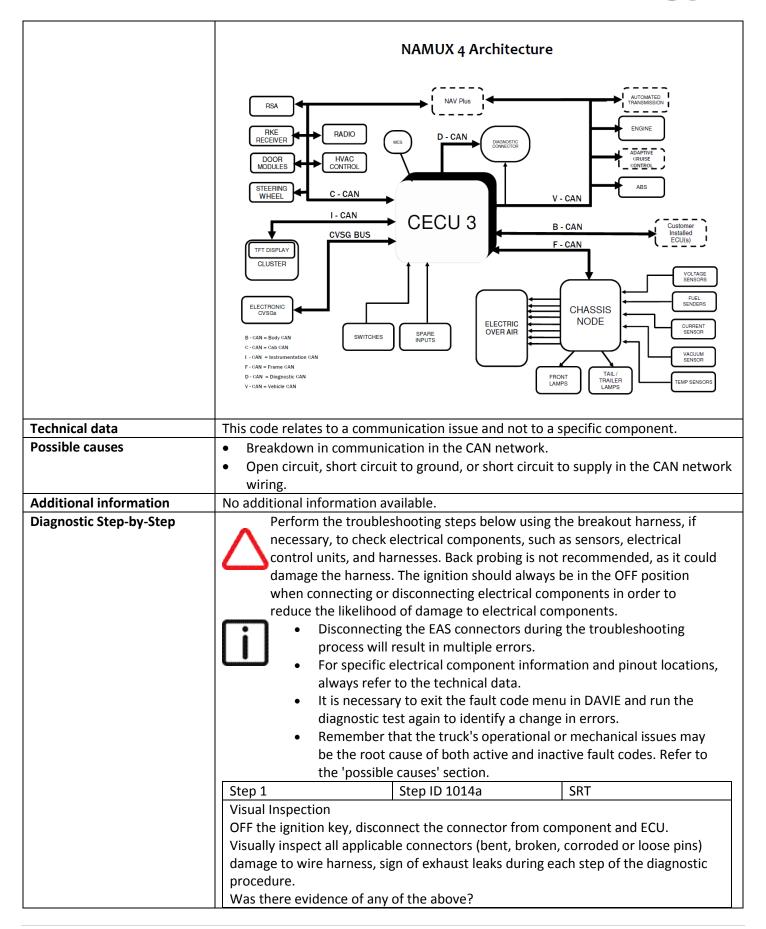


Code number	U1014		
Fault code description	CAN communication - Hardware or software fault on V-CAN1.		
Fault code information	1 trip MIL		
	3 drive cycle recovery		
	Readiness group – None		
	Freeze frame type – Comprehensive		
Description of component(s)	This code relates to a communication issue and not to a specific component.		
Location of component(s)	This code relates to a communication issue and not to a specific component.		
Diagnostic condition	This diagnostic runs continuously when the ignition is on.		
Set condition of fault code	Positive acknowledgement after a CAN message is FALSE.		
Reset condition of fault code	This DTC changes to inactive as soon as the error is no longer detected.		
Electrical diagram(s)			
	NAMUX 3 Architecture: 2010 B-Cab  FIREWALL Aftertreatment CAN  Diagnostic CAN  TRANSMISSION  ABS  DIAGNOSTIC  CONNECTOR  PACCAR DISPIBL  LONGING  CONNECTOR  PACCAR DISPIBL  CVSG BUS  CVSG BUS  SPARE INPUTS  FIREWALL  FIREWALL  FIREWALL  FIREWALL  FIREWALL  FIREWALL  FIREWALL  FIREWALL  FIREWALL  Aftertreatment CAN  CONNECTOR  FIREWALL  Aftertreatment CAN  CONNECTOR  FIREWALL  Aftertreatment CAN  CONNECTOR  FIREWALL  Aftertreatment CAN  CONNECTOR  FIREWALL  FIREW		









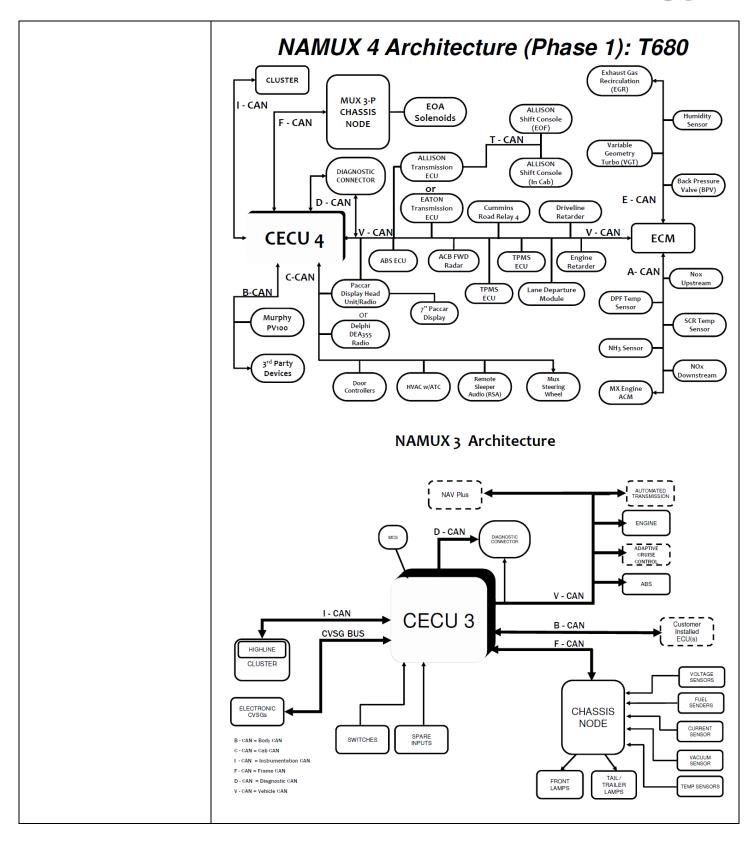


	<ul> <li>No: Proceed to step 2.</li> <li>Yes: Make the appropriate repairs or component replacements.</li> <li>Use DAVIE to re-check for the presence of active faults.</li> <li>If this related fault is no longer active, then this issue has been resolved.</li> <li>If this related fault is still active, Proceed to step 2.</li> </ul>		
		•	
	wiring harne  Reconnect t  ON the ignit Use DAVIE to re-che  Is DTC fault	place the component, also cless. he connector.	
Verification Drive Cycle	Step 4 Step ID 1014d SRT  For further assistance in diagnosing this issue or for confirmation prior to the replacement of suspect components, contact the Engine Support Call Center at 1-800-477-0251.  To validate the repair, with the brakes set, turn the key to the ON position with the engine off, and allow 10 seconds for the system to initialize and run diagnostics.		
		tart the engine and allow it	_

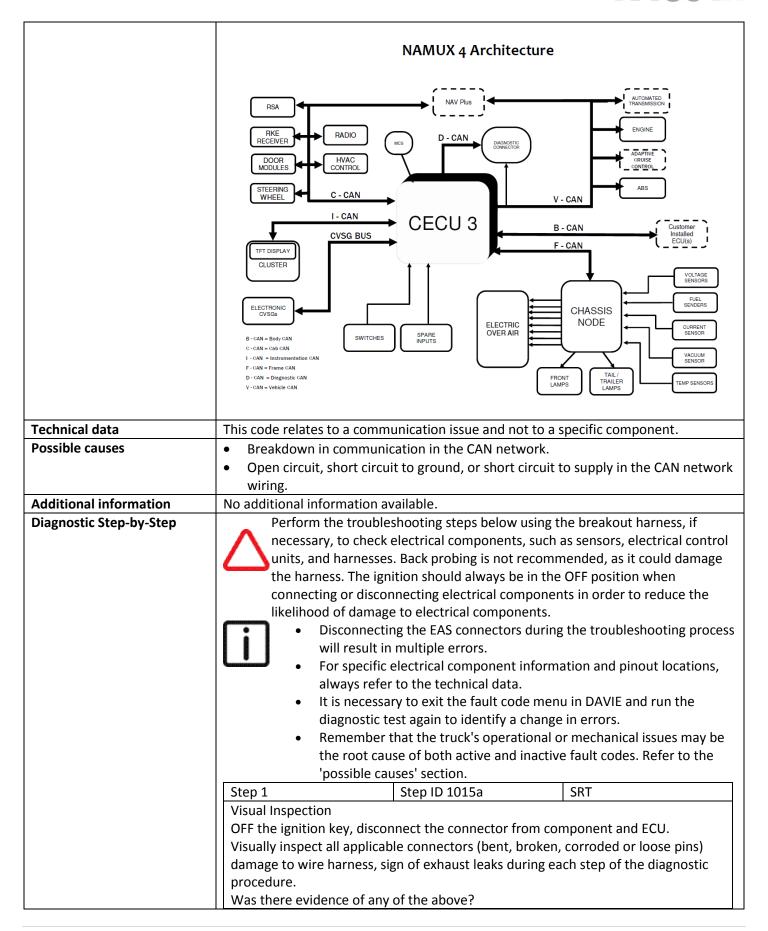


Code number	U1015		
Fault code description	CAN communication – Hardware or software fault on A-CAN		
Fault code information	1 trip MIL		
	3 drive cycle recovery		
	Readiness group – None		
	Freeze frame type – Comprehensive		
Description of component(s)	This code relates to a communication issue and not to a specific component.		
Location of component(s)	This code relates to a communication issue and not to a specific component.		
Diagnostic condition	This diagnostic runs continuously when the ignition is on.		
Set condition of fault code	Positive acknowledgement after a CAN message is false.		
Reset condition of fault code	This DTC changes to inactive as soon as the error is no longer detected.		
Electrical diagram(s)			
	NAMUX 3 Architecture: 2010 B-Cab  FIREWALL  STEERING WHEEL  MCS  DIAGNOSTIC CONNECTOR  PACCAR DISplay  Vehicle CAN  Vehicle CAN  CVSG BUS  SPARE INPUTS  FIREWALL  FIREWALL  Aftertreatment CAN  LAUTO LITRANSMISSION  PACCAR DISplay  Voltage SENSORS  FUEL SENSORS  CVSG BUS  CHASSIS NODE  FRONT TAIL/ TRAILER LAMPS  FRONT TRAILER LAMPS  TAIL/ TRAILER LAMPS  TEMP SENSORS		











Step 2 Step ID 1015b SRT  Data check  Lookup the technical data of the specific system. Perform the checking data test of the specific component.  Is test pass? No: Proceed to step 3. Yes: Proceed to step 4.  Step 3 Step ID 1015c SRT  Repair or replace component Repair or replace the component, also check for electrical connection an wiring harness. Reconnect the connector. ON the ignition key Use DAVIE to re-check for the presence of active faults: Is DTC fault active: Proceed to step 4. Is DTC fault inactive: Issue resolved. Clear inactive fault.  Step 4 Step ID 1015d SRT  For further assistance in diagnosing this issue or for confirmation prior to the replacement of suspect components, contact the Engine Support Call Center at		A Nov Dracood to stop 2		
Use DAVIE to re-check for the presence of active faults.  If this related fault is no longer active, then this issue has been resolved.  If this related fault is still active, Proceed to step 2.  Step 2				
If this related fault is no longer active, then this issue has been resolved.  If this related fault is still active, Proceed to step 2.  Step 2  Step ID 1015b  SRT  Data check  Lookup the technical data of the specific system.  Perform the checking data test of the specific component.  Is test pass?  No: Proceed to step 3.  Yes: Proceed to step 4.  Step 3  Step ID 1015c  SRT  Repair or replace component  Repair or replace the component, also check for electrical connection an wiring harness.  Reconnect the connector.  ON the ignition key  Use DAVIE to re-check for the presence of active faults:  Is DTC fault active: Proceed to step 4.  Is DTC fault inactive: Issue resolved. Clear inactive fault.  Step 4  Step ID 1015d  SRT  For further assistance in diagnosing this issue or for confirmation prior to the replacement of suspect components, contact the Engine Support Call Center at		<ul> <li>Use DAVIE to re-check for the presence of active faults.</li> <li>If this related fault is no longer active, then this issue has been resolved.</li> </ul>		
Step 2 Step ID 1015b SRT  Data check  Lookup the technical data of the specific system. Perform the checking data test of the specific component.  Is test pass? No: Proceed to step 3. Yes: Proceed to step 4.  Step 3 Step ID 1015c SRT  Repair or replace component Repair or replace the component, also check for electrical connection an wiring harness. Reconnect the connector. ON the ignition key Use DAVIE to re-check for the presence of active faults: Is DTC fault active: Proceed to step 4. Step 4 Step ID 1015d SRT  For further assistance in diagnosing this issue or for confirmation prior to the replacement of suspect components, contact the Engine Support Call Center at				
Step 2				
Data check  Lookup the technical data of the specific system.  Perform the checking data test of the specific component.  Is test pass?  No: Proceed to step 3.  Yes: Proceed to step 4.  Step 3 Step ID 1015c SRT  Repair or replace component  Repair or replace the component, also check for electrical connection an wiring harness.  Reconnect the connector.  ON the ignition key  Use DAVIE to re-check for the presence of active faults:  Is DTC fault active: Proceed to step 4.  Is DTC fault inactive: Issue resolved. Clear inactive fault.  Step 4 Step ID 1015d SRT  For further assistance in diagnosing this issue or for confirmation prior to the replacement of suspect components, contact the Engine Support Call Center at		If this related fault is still active, Proceed to step 2.		
Data check  Lookup the technical data of the specific system.  Perform the checking data test of the specific component.  Is test pass?  No: Proceed to step 3.  Yes: Proceed to step 4.  Step 3 Step ID 1015c SRT  Repair or replace component  Repair or replace the component, also check for electrical connection an wiring harness.  Reconnect the connector.  ON the ignition key  Use DAVIE to re-check for the presence of active faults:  Is DTC fault active: Proceed to step 4.  Is DTC fault inactive: Issue resolved. Clear inactive fault.  Step 4 Step ID 1015d SRT  For further assistance in diagnosing this issue or for confirmation prior to the replacement of suspect components, contact the Engine Support Call Center at				
Lookup the technical data of the specific system.     Perform the checking data test of the specific component.  Is test pass?     No: Proceed to step 3.     Yes: Proceed to step 4.  Step 3  Step ID 1015c  SRT  Repair or replace component     Repair or replace the component, also check for electrical connection an wiring harness.     Reconnect the connector.     ON the ignition key  Use DAVIE to re-check for the presence of active faults:     Is DTC fault active: Proceed to step 4.     Is DTC fault inactive: Issue resolved. Clear inactive fault.  Step 4  Step ID 1015d  SRT  For further assistance in diagnosing this issue or for confirmation prior to the replacement of suspect components, contact the Engine Support Call Center at				
<ul> <li>Perform the checking data test of the specific component.  Is test pass?         <ul> <li>No: Proceed to step 3.</li> <li>Yes: Proceed to step 4.</li> </ul> </li> <li>Step 3</li></ul>		Data check		
Is test pass?  No: Proceed to step 3. Yes: Proceed to step 4.  Step 3 Step ID 1015c SRT  Repair or replace component Repair or replace the component, also check for electrical connection an wiring harness. Reconnect the connector. ON the ignition key Use DAVIE to re-check for the presence of active faults: Is DTC fault active: Proceed to step 4. Is DTC fault inactive: Issue resolved. Clear inactive fault.  Step 4 Step ID 1015d SRT  For further assistance in diagnosing this issue or for confirmation prior to the replacement of suspect components, contact the Engine Support Call Center at		<ul> <li>Lookup the technical data of the specific system.</li> </ul>		
<ul> <li>No: Proceed to step 3.</li> <li>Yes: Proceed to step 4.</li> </ul> Step 3 <ul> <li>Step ID 1015c</li> <li>SRT</li> </ul> Repair or replace component <ul> <li>Repair or replace the component, also check for electrical connection an wiring harness.</li> <li>Reconnect the connector.</li> <li>ON the ignition key</li> <li>Use DAVIE to re-check for the presence of active faults:</li> <ul> <li>Is DTC fault active: Proceed to step 4.</li> <li>Is DTC fault inactive: Issue resolved. Clear inactive fault.</li> </ul> Step 4 <ul> <li>Step ID 1015d</li> <li>SRT</li> <li>For further assistance in diagnosing this issue or for confirmation prior to the replacement of suspect components, contact the Engine Support Call Center at</li> </ul></ul>		<ul> <li>Perform the checking data test of the specific component.</li> </ul>		
Step 3 Step ID 1015c SRT  Repair or replace component  Repair or replace the component, also check for electrical connection an wiring harness.  Reconnect the connector.  ON the ignition key  Use DAVIE to re-check for the presence of active faults:  Is DTC fault active: Proceed to step 4.  Is DTC fault inactive: Issue resolved. Clear inactive fault.  Step 4 Step ID 1015d SRT  For further assistance in diagnosing this issue or for confirmation prior to the replacement of suspect components, contact the Engine Support Call Center at		Is test pass?		
Step 3 Step ID 1015c SRT  Repair or replace component  Repair or replace the component, also check for electrical connection an wiring harness.  Reconnect the connector.  ON the ignition key  Use DAVIE to re-check for the presence of active faults:  Is DTC fault active: Proceed to step 4.  Is DTC fault inactive: Issue resolved. Clear inactive fault.  Step 4 Step ID 1015d SRT  For further assistance in diagnosing this issue or for confirmation prior to the replacement of suspect components, contact the Engine Support Call Center at		No: Proceed to step 3.		
Repair or replace component  Repair or replace the component, also check for electrical connection an wiring harness.  Reconnect the connector.  ON the ignition key Use DAVIE to re-check for the presence of active faults:  Is DTC fault active: Proceed to step 4.  Is DTC fault inactive: Issue resolved. Clear inactive fault.  Step 4  Step ID 1015d  SRT  For further assistance in diagnosing this issue or for confirmation prior to the replacement of suspect components, contact the Engine Support Call Center at		Yes : Proceed to step 4.		
Repair or replace component  Repair or replace the component, also check for electrical connection an wiring harness.  Reconnect the connector.  ON the ignition key Use DAVIE to re-check for the presence of active faults:  Is DTC fault active: Proceed to step 4.  Is DTC fault inactive: Issue resolved. Clear inactive fault.  Step 4  Step ID 1015d  SRT  For further assistance in diagnosing this issue or for confirmation prior to the replacement of suspect components, contact the Engine Support Call Center at				
<ul> <li>Repair or replace the component, also check for electrical connection an wiring harness.</li> <li>Reconnect the connector.</li> <li>ON the ignition key</li> <li>Use DAVIE to re-check for the presence of active faults:         <ul> <li>Is DTC fault active: Proceed to step 4.</li> <li>Is DTC fault inactive: Issue resolved. Clear inactive fault.</li> </ul> </li> <li>Step 4 Step ID 1015d SRT         <ul> <li>For further assistance in diagnosing this issue or for confirmation prior to the replacement of suspect components, contact the Engine Support Call Center at</li> </ul> </li> </ul>				
wiring harness.  Reconnect the connector.  ON the ignition key Use DAVIE to re-check for the presence of active faults:  Is DTC fault active: Proceed to step 4.  Is DTC fault inactive: Issue resolved. Clear inactive fault.  Step 4 Step ID 1015d SRT  For further assistance in diagnosing this issue or for confirmation prior to the replacement of suspect components, contact the Engine Support Call Center at				
<ul> <li>Reconnect the connector.</li> <li>ON the ignition key</li> <li>Use DAVIE to re-check for the presence of active faults:         <ul> <li>Is DTC fault active: Proceed to step 4.</li> <li>Is DTC fault inactive: Issue resolved. Clear inactive fault.</li> </ul> </li> <li>Step 4 Step ID 1015d SRT         <ul> <li>For further assistance in diagnosing this issue or for confirmation prior to the replacement of suspect components, contact the Engine Support Call Center at</li> </ul> </li> </ul>				
ON the ignition key Use DAVIE to re-check for the presence of active faults:     Is DTC fault active: Proceed to step 4.     Is DTC fault inactive: Issue resolved. Clear inactive fault.    Step 4				
Use DAVIE to re-check for the presence of active faults:  • Is DTC fault active: Proceed to step 4.  • Is DTC fault inactive: Issue resolved. Clear inactive fault.  Step 4 Step ID 1015d SRT  For further assistance in diagnosing this issue or for confirmation prior to the replacement of suspect components, contact the Engine Support Call Center at				
Is DTC fault active: Proceed to step 4.     Is DTC fault inactive: Issue resolved. Clear inactive fault.    Step 4		ON the ignition key		
Is DTC fault inactive: Issue resolved. Clear inactive fault.    Step 4				
Step 4 Step ID 1015d SRT  For further assistance in diagnosing this issue or for confirmation prior to the replacement of suspect components, contact the Engine Support Call Center at		Is DTC fault active: Proceed to step 4.		
For further assistance in diagnosing this issue or for confirmation prior to the replacement of suspect components, contact the Engine Support Call Center at				
For further assistance in diagnosing this issue or for confirmation prior to the replacement of suspect components, contact the Engine Support Call Center at				
replacement of suspect components, contact the Engine Support Call Center at	Step 4 Step ID 1015d SRT			
replacement of suspect components, contact the Engine Support Call Center at		For further assistance in diagnosing this issue or for confirmation prior to the		
Verification Drive Cycle  To validate the repair, with the brakes set, turn the key to the ON position with the	Verification Drive Cycle	To validate the repair, with the brakes set, turn the key to the ON position with the		
engine off, and allow 10 seconds for the system to initialize and run diagnostics.	-			
		·		
Back to I		Back to Ind		



Code number	U1016
Fault code description	CAN communication - Message (A1DOC) rate too low from aftertreatment system
	Diagnostic and supporting information for this DTC is available in Engine Rapido.
	Back to Index



# **U104C**

U1U4C		
Code number	U104C	
Fault code description	VTG turbo charger actuator - CAN communication error	
Fault code information	1 trip MIL	
	3 drive cycle recovery	
	Readiness group – None	
	Freeze frame type – Boost	
Description of component(s)	The main task of the VTG turbo charger actuator is to control the turbo charger nozzle ring position.	
	The gas flow guidance into the turbine rotor is controlled by the position of the turbo	
	charger nozzle ring.	
	A D T D T D T D T D T D T D T D T D T D	
	100% 0%	
	<ul> <li>1 Nozzle ring</li> <li>2 VTG actuator</li> <li>3 Turbine rotor</li> <li>A Exhaust gas flow to turbine rotor</li> <li>B Inlet air</li> <li>C Boost air outlet</li> <li>D Exhaust gas outlet</li> </ul>	
	The main components of the VTG turbo charger actuator are:	



- ECU
- Electromotor

The electromotor rotates the output shaft via internal gears.

output shaft

The nozzle ring mechanism is moved via a sector gear by rotating the output shaft

output shaft position sensor

The position of the actuator output shaft is monitored with an internal sensor and a reference magnet (reference point).

temperature sensor

The temperature of the printed circuit board of the ECU is monitored.

#### Control

The VTG turbo charger actuator is a smart actuator that communicates with the PCI ECU via E-CAN. The actuator ECU is controlled by the PCI ECU but has its own diagnostics on the following actuator inputs and outputs:

- power supply voltage
- electromotor current

The effort to move the nozzle ring is monitored.

output shaft position

The mechanical end positions of the nozzle ring mechanism are monitored.

- ECU printed circuit board temperature
- ECU hardware and software

#### Learn sweep

After the ignition is keyed on, a learn sweep is performed by the actuator. During this sweep the VTG turbo charger nozzle ring is fully opened and fully closed to check the mechanical end positions of the nozzle ring mechanism.

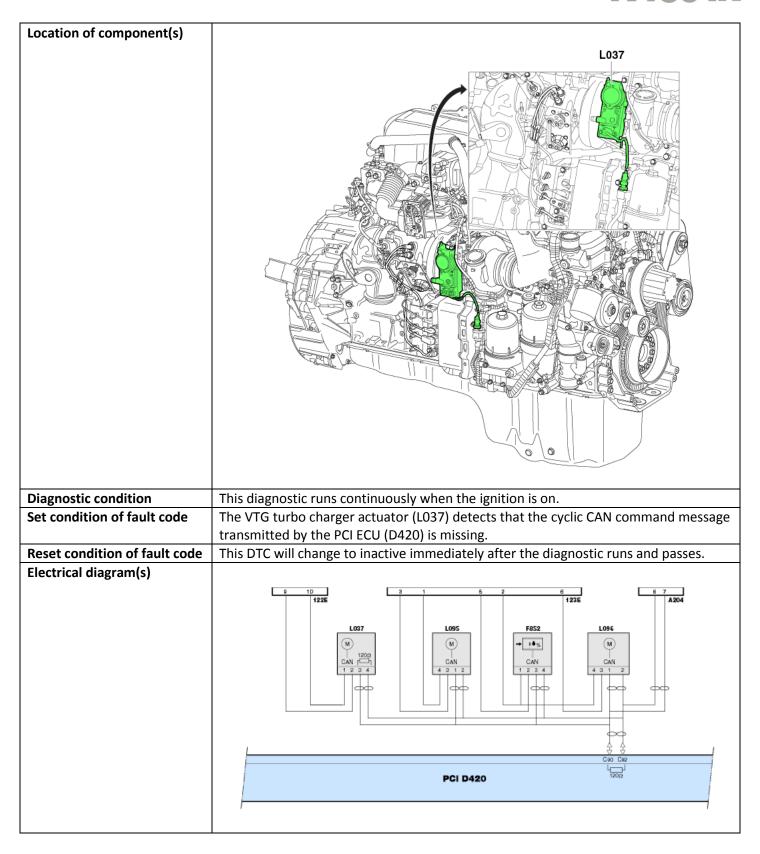
Unpowered and fail-safe position

The unpowered and fail-safe position of the actuator is 80%. If a failure is detected the VTG actuator moves to the fail-safe position, if possible

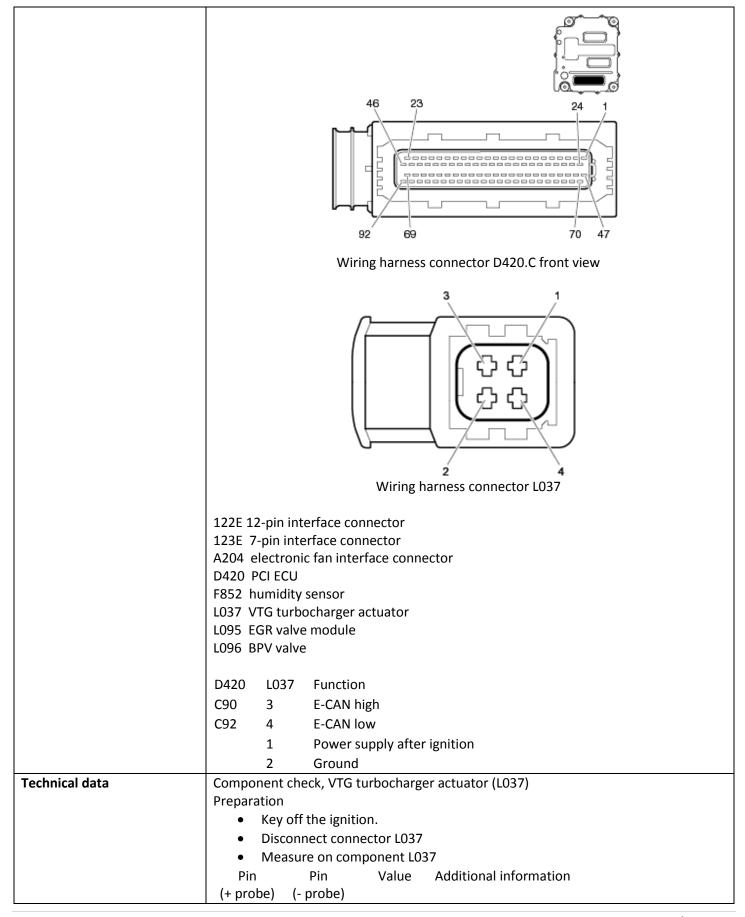
Effect of actuator on the system:

- controlling the VTG turbo charger
- In general, a lower opening percentage results in a higher turbo speed and therefore in a higher boost pressure. The controlled opening percentage also depends on other conditions, such as the required EGR flow (pressure before turbine).
- Controlling the pressure before turbine to generate EGR flow and back pressure during engine braking.











	3 4 ± 120 Ω		
	Wiring check, VTG turbocharger actuator (L037)		
	Preparation		
	Key off the ignition.		
	Disconnect connector L037		
	Measure on component connector L037		
	Pin Pin Value Additional information		
	(+ probe) (- probe)		
	1 2 Ubat Ignition keyed on		
	3 4 $\pm$ 120 $\Omega$ Ignition keyed off		
	Ground cable from the battery		
	disconnected		
	Vehicle Communication Interface (VCI) of		
	DAVIE disconnected		
Possible causes	Bad CAN communication		
Additional information	The VTG turbo charger actuator (L037) is controlled by a cyclic CAN command     The VTG turbo charger actuator (L037) is controlled by a cyclic CAN command     The VTG turbo charger actuator (L037) is controlled by a cyclic CAN command     The VTG turbo charger actuator (L037) is controlled by a cyclic CAN command     The VTG turbo charger actuator (L037) is controlled by a cyclic CAN command     The VTG turbo charger actuator (L037) is controlled by a cyclic CAN command     The VTG turbo charger actuator (L037) is controlled by a cyclic CAN command     The VTG turbo charger actuator (L037) is controlled by a cyclic CAN command     The VTG turbo charger actuator (L037) is controlled by a cyclic CAN command     The VTG turbo charger actuator (L037) is controlled by a cyclic CAN command     The VTG turbo charger actuator (L037) is controlled by a cyclic CAN command     The VTG turbo charger actuator (L037) is controlled by a cyclic CAN command     The VTG turbo charger actuator (L037) is controlled by a cyclic CAN command     The VTG turbo charger actuator (L037) is controlled by a cyclic CAN command     The VTG turbo charger actuator (L037) is controlled by a cyclic CAN command     The VTG turbo charger actuator (L037) is controlled by a cyclic CAN command     The VTG turbo charger actuator (L037) is controlled by a cyclic CAN command     The VTG turbo charger actuator (L037) is controlled by a cyclic CAN command     The VTG turbo charger actuator (L037) is controlled by a cyclic CAN command     The VTG turbo charger actuator (L037) is controlled by a cyclic CAN command     The VTG turbo charger actuator (L037) is controlled by a cyclic CAN command     The VTG turbo charger actuator (L037) is controlled by a cyclic CAN command     The VTG turbo charger actuator (L037) is controlled by a cyclic CAN command     The VTG turbo charger actuator (L037) is controlled by a cyclic CAN command     The VTG turbo charger actuator (L037) is controlled by a cyclic CAN command     The VTG turbo charger actuator (L037) is		
	message transmitted by the PCI ECU (D420) in which the operating mode and the target position are demanded.		
	<ul> <li>The actuator motor moves to a position of 80% and is switched off with this fault</li> </ul>		
	active.		
Diagnostic Step-by-Step	Perform the troubleshooting steps below using the breakout harness, if		
<b>3</b>	necessary, to check electrical components, such as sensors, electrical control		
	units, and harnesses. Back probing is not recommended, as it could damage		
	the harness. The ignition should always be in the OFF position when		
	connecting or disconnecting electrical components in order to reduce the		
	likelihood of damage to electrical components.		
	Disconnecting the EAS connectors during the troubleshooting process		
	will result in multiple errors.		
	For specific electrical component information and pinout locations,      The specific electrical data.		
	always refer to the technical data.		
	<ul> <li>It is necessary to exit the fault code menu in DAVIE and run the diagnostic test again to identify a change in errors.</li> </ul>		
	Remember that the truck's operational or mechanical issues may be		
	the root cause of both active and inactive fault codes. Refer to the		
	'possible causes' section.		
	Step 1 Step ID 104C-a SRT		
	Visual Inspection		
	OFF the ignition key, disconnect the connector from component and ECU. Visually inspect all applicable connectors (bent, broken, corroded or loose pins) damage to wire harness, sign of exhaust leaks during each step of the diagnostic procedure.		
	Was there evidence of any of the above?		
	No: Proceed to step 2.      Very Make the appropriate repairs or component replacements.		
	<ul> <li>Yes: Make the appropriate repairs or component replacements.</li> <li>Use DAVIE to re-check for the presence of active faults.</li> </ul>		
	If this related fault is no longer active, then this issue has been resolved.		
	<ul> <li>If this related fault is still active, Proceed to step 2</li> </ul>		
	in this related radic is still delive; i rocced to step 2		
	Step 2 Step ID 104C-b SRT		



	Data check		
	Lookup the	okup the technical data of the specific system.	
		Perform the checking data test of the specific component.	
	Is test pass?  • No: Proceed to step 3		
		eed to step 4	
	• 165. 2100	eed to step 4	
	Step 3	Step ID 104C-c	SRT
	Repair or replace of		
		•	ack for alastrical connection and
			eck for electrical connection and
	<ul> <li>wiring harness.</li> <li>Reconnect the connector.</li> <li>ON the ignition key</li> <li>Use DAVIE to re-check for the presence of active faults:</li> <li>Is DTC fault active: Proceed to step 4</li> <li>Is DTC fault inactive: Issue resolved. Clear inactive fault</li> </ul>		
			aults:
			inactive fault
	Step 4	Step ID 104C-d	SRT
	For further assistance in diagnosing this issue or for confirmation prior to the		
	replacement of suspect components, contact the Engine Support Call Center at		Engine Support Call Center at
	1-800-477-0251.		
Verification Drive Cycle	To validate the repair, with the brakes set, turn the key to the ON position with the		
•	engine off, and allow 10 seconds for the system to initialize and run diagnostics.		
	With the brakes set, start the engine and allow it to run at idle for 2 minutes.		
		,	
			Back to Inde
			<u> </u>



Code number	U1069	
Fault code description	Inlet air pressure before compressor - Data erratic, intermittent or incorrect	
Fault code information	1 trip MIL 3 drive cycle recovery Readiness group – None Freeze frame type – Crankcase	
Description of component(s)	Humidity sensor (F852)	
	The humidity sensor is a smart sensor that communicates with the PCI ECU via E-CAN. The sensor is positioned in the air inlet pipe before the turbo compressor and measures the following parameters:	
	<ul> <li>Relative humidity</li> <li>Temperature</li> <li>Pressure</li> <li>Inlet air humidity – before the turbo compressor</li> </ul>	
	The relative humidity refers to the moisture percentage of the air.	
	Effect on the system	
	<ul> <li>Determines NOx emissions         Higher measured relative humidity results in a lower calculated NOx emission.     </li> <li>Inlet air temperature – before the turbo compressor</li> </ul>	
	<ul> <li>Determines soot emissions         Higher measured precompressor temperature results in lower calculated soot formation in the engine.     </li> </ul>	
	<ul> <li>Calculates exhaust gas pressure before the turbine;</li> <li>Higher measured precompressor temperature results in lower calculated exhaust gas pressure before the turbine.</li> </ul>	
	<ul> <li>Limits the maximum engine torque; for example, to limit the cylinder pressures during cold ambient conditions or driving at high altitudes.</li> <li>to determine turbo charger compressor flow and thus the detection of VTG surge;</li> <li>Surge can typically occur at high compressor pressure ratios and low compressor mass flows.</li> </ul>	
	<ul> <li>calculation of the temperature after the turbo charger compressor;</li> <li>A higher measured pre-compressor temperature results in a higher calculation for the temperature after the turbocharger compressor.</li> </ul>	
	Inlet air pressure - before the turbo compressor	
	Corrects pressure before turbine     Higher measured precompressor pressure results in higher calculated exhaust	



gas pressure before the turbine. **Determines soot emissions** Higher measured precompressor pressure results in lower calculated soot formation in the engine. Calculates the temperature after the turbocharger compressor A lower measured pre-compressor pressure results in a higher calculated temperature after the turbo charger compressor. Limits the maximum engine torque when driving at high altitudes (low air density) Lower measured precompressor pressure results in higher engine torque reduction. Detects VTG surge, the sensor is used to determine the compressor pressure ratio; surge can typically occur at high compressor pressure ratios and low compressor mass flows. Location of component(s) **Humidity sensor (F852)** F852 1402277 **Diagnostic condition** This diagnostic runs continuously when the ignition is on. Set condition of fault code The PCI ECU (D420) receives a CAN message from the humidity sensor (F852) that



	contains an out-of-range value for the pressure.		
Reset condition of fault code	This DTC changes to inactive after the ignition is keyed off for at least 15 seconds and keyed on again, and the fault is no longer detected		
Electrical diagram(s)	Humidity Sensor (F852)		
	(M) (200 CAN (200 CAN)(200 CAN (200 CA	123E 6 7 123E A204    10	
	PCI D420		
	122E 12-pin interface connector		
	123E 7-pin interface connector		
	A204 Electronic fan interface connector		
	0420 PCI ECU		
	F852 humidity sensor		
	L037 VTG turbocharger actuator		
	L095 EGR valve module		
	L096 BPV valve		
	D420 F852 Function		
	C90 3 E-CAN high C92 4 E-CAN low		
	1 Power supply after ignition		
	2 Ground		
	46 23 24 1		

E504127



	Wiring harness connector D420.C front view Wiring harness connector F852 front view		
	Handle connectors and pins with care and use matching measuring probes.		
Technical data	Component check, humidity sensor (F852)		
	This type of component cannot be checked with a multimeter or oscilloscope. Perform the following to assess the component:		
	Monitor/test the component with DAVIE      Derform the univirum place!		
	<ul> <li>Perform the wiring check</li> <li>Wiring check, humidity sensor (F852)</li> </ul>		
	Preparation		
	<ul><li>Switch off the ignition.</li><li>Disconnect connector F852.</li></ul>		
	<ul> <li>Measure on the front side of wiring harness connector F852.</li> <li>Pin Pin Value Additional information</li> </ul>		
	(+ (- probe) probe)		
	1 2 Ubat Switch on ignition		
	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$		
Possible causes	E-CAN communication     Foulty hymidity consor		
Additional information	<ul> <li>Faulty humidity sensor</li> <li>The humidity sensor is a smart sensor that communicates with the PCI ECU via E-CAN.</li> <li>The sensor measures the following three properties of the drawn in precompressor (VTG turbo charger) air in the inlet air pipe:</li> </ul>		
	<ul><li>Relative humidity</li><li>Pressure</li></ul>		
Diagnostic Step-by-Step	• Temperature		
3	The ignition should always be in the OFF position when connecting or disconnecting electrical components to reduce the likelihood of damage to the components.		





- This troubleshooting procedure is based on the assumption that supply power and ground to the PCI are functioning properly.
- Disconnecting the PCI connectors during the troubleshooting process will result in multiple errors.
- Specific electrical component information and pin out locations are provided in this procedure as a reference only. Always refer to the technical data sections in Rapido for the most up-to-date changes.
- It is necessary to use DAVIE to clear all current DTCs from the PCI and EAS-3 ECUs, and then run the Quick Check to identify a change in fault status.
- This DTC can be set as a result of multiple failure modes. For proper fault isolation, complete all troubleshooting steps in the sequence provided.

#### **Step 1 Investigate Related DTCs**

Before troubleshooting this DTC, take notice of any other active or inactive DTCs. One or multiple other DTCs could have been the cause for this DTC.

Step 1A Investigate related DTCs		
Action		
1. Use DAVIE Diagnostics to perform a	Quick Check for current DTCs.	
Are these or any other related DTCs active?		
P1872	P1872	
Yes	No	
Possible problem with humidity sensor (F852). Refer to the troubleshooting information for these DTCs before continuing with this procedure.		
	Go to step 2A	

#### Step 2 Humidity Sensor (F852) Checks

#### Step 2A Visual inspection, connections and wiring, humidity sensor (F852)

#### **Action**

- 1. Visually inspect the associated component connections and wiring for any of the following:
  - Damaged or loose connectors
  - Bent, broken, corroded or loose connector pins
  - Moisture or dirt in the connections
  - Damage to the wire harness or insulation
  - The correct parts are not installed



<ul> <li>ECU connections are damaged or disconnected</li> <li>Batteries not fully charged or contacts are not tight</li> </ul>		
Was there evidence of any of the above?		
Yes	No	
Correct any issues found. If the humidity sensor (F852) is found to be damaged or broken, replace it. Refer to step 3A to perform the corresponding repair verification cycles and rechecks.		
If this DTC is still present, go to step 2B	Go to step 2B	

# Step 2B Electrical checks, supply voltage, humidity sensor (F852)



Refer to the corresponding checking data for associated supply and signal voltages, resistance values, and related connector pin test points.

#### **Action**

1. Confirm the supply voltage level as outlined in the corresponding checking data, "component check, humidity sensor (F852).

Are measured values within expected range?

Yes	No
	Correct any issues found. Refer to step 3A to perform the corresponding repair verification cycles and rechecks.
Go to step 2C	If this DTC is still present, go to step 2C

# Step 2B Electrical checks, resistance, humidity sensor (F852) to E-CAN



Refer to the corresponding checking data for associated supply and signal voltages, resistance values, and related connector pin test points.

#### Action

1. Confirm the resistance value as outlined in the corresponding checking data,



"component check, humidity sensor (F852).		
Is the measured value within expected range?		
Yes No		
	Correct any issues found. Refer to step 3A to perform the corresponding repair verification cycles and rechecks.	
If all steps have been completed and this DTC is still present, contact the PACCAR Engine Support Center for further assistance.		

# **Step 3 Repair Verification**

# **Step 3A Repair verification cycles**

Perform these repair verification cycles following any corrective actions taken, to enable related OBD monitors to reach a readiness state associated with the DTC or system being investigated.



Before beginning these repair verification cycles, use the DAVIE Diagnostics, Quick Check function to "Clear all" current DTCs from the PCI and EAS-3 ECUs.

# **Action**

1. Start-up

With the brakes set, start the engine and allow it to run at idle for 2 minutes.

Were the identified repair verification cycles able to be completed?

Yes	No
	Investigate and correct any issues preventing these repair verification cycles from being completed, then rerun. For additional assistance, contact the PACCAR Engine Support Center.
Go to step 3B	Go to step 3B



ck Check for current DTCs to determine this DTC.  OBD Monitor Readiness Status value is
OBD Monitor Readiness Status value is
the corresponding OBD monitor has run s been resolved—no further action.  ady," continue to action step 2.  and confirm that U1069 has been cleared.
atus set to "Ready." Or, has U1069 been
No
Continue with the next step in this troubleshooting procedure.  If all steps have been completed and this DTC is still present:  • continue to operate the truck to extend the run time, allowing the corresponding OBD monitor sufficient time to complete  • or, return to step 3A and perform this repair verification again.  If this issue is still present after extending or re-running the repair verification, contact the PACCAR Engine Support Center for further assistance.
e Support Center nosing this issue or for confirmation prior to omponents, contact the PACCAR Engine



Code number	U1071
Fault code description	Inlet air humidity before compressor - Data erratic, intermittent or incorrect
Fault code information	1 trip MIL 3 drive cycle recovery Readiness group – None Freeze frame type – Crankcase
Description of component(s)	Humidity sensor (F852)
	The humidity sensor is a smart sensor that communicates with the PCI ECU via E-CAN. The sensor is positioned in the air inlet pipe before the turbo compressor and measures the following parameters:
	<ul><li>Relative humidity</li><li>Temperature</li><li>Pressure</li></ul>
	Inlet air humidity – before the turbo compressor
	The relative humidity refers to the moisture percentage of the air.
	Effect on the system
	<ul> <li>Determines NOx emissions         Higher measured relative humidity results in a lower calculated NOx emission.     </li> <li>Inlet air temperature – before the turbo compressor</li> </ul>
	<ul> <li>Determines soot emissions         Higher measured precompressor temperature results in lower calculated soot formation in the engine.     </li> </ul>
	<ul> <li>Calculates exhaust gas pressure before the turbine;</li> <li>Higher measured precompressor temperature results in lower calculated exhaust gas pressure before the turbine.</li> </ul>
	<ul> <li>Limits the maximum engine torque; for example, to limit the cylinder pressures during cold ambient conditions or driving at high altitudes.</li> <li>to determine turbo charger compressor flow and thus the detection of VTG surge;</li> <li>Surge can typically occur at high compressor pressure ratios and low compressor mass flows.</li> </ul>
	<ul> <li>calculation of the temperature after the turbo charger compressor;</li> <li>A higher measured pre-compressor temperature results in a higher calculation for the temperature after the turbocharger compressor.</li> </ul>
	Inlet air pressure - before the turbo compressor
	<ul> <li>Corrects pressure before turbine</li> <li>Higher measured precompressor pressure results in higher calculated exhaust</li> </ul>



gas pressure before the turbine. **Determines soot emissions** Higher measured precompressor pressure results in lower calculated soot formation in the engine. Calculates the temperature after the turbocharger compressor A lower measured pre-compressor pressure results in a higher calculated temperature after the turbo charger compressor. Limits the maximum engine torque when driving at high altitudes (low air density) Lower measured precompressor pressure results in higher engine torque reduction. Detects VTG surge, the sensor is used to determine the compressor pressure ratio; surge can typically occur at high compressor pressure ratios and low compressor mass flows. Location of component(s) **Humidity sensor (F852)** F852 1402277 **Diagnostic condition** This diagnostic runs continuously when the ignition is on. Set condition of fault code The PCI ECU (D420) receives a CAN message from the humidity sensor (F852) that



	contains a	n out-of-rang	ge value for the relative humidity.
	contains an out of range value for the relative naminary.		
Reset condition of fault code			active after the ignition is keyed off for at least 15 seconds and e fault is no longer detected.
Electrical diagram(s)	Humidity	Sensor (F852	)
		M GAN	N 1200 CAN CAN CAN 4 3 1 2 1 2 3 4 4 3 1 2 1 2 3 4 4 3 1 2 1 2 3 4 4 3 1 2 1 2 3 4 4 3 1 2 1 2 3 4 4 3 1 2 1 2 3 4 1
			PCI D420
	-	oin interface o	
	123E 7-pin interface connector		
	A204 Electronic fan interface connector		
	D420 PCI ECU		
	F852 humidity sensor		
	L037 VTG turbocharger actuator		
		valve modul	e
	L096 BPV	r	<u>,                                      </u>
	D420	F852	Function
	C90	3	E-CAN high
	C92	4	E-CAN low
		1	Power supply after ignition
		2	Ground
	46	200000000	24 1

70 47 E504139

E504127



	Wiring harness connector D420.C front view Wiring harness connector F852 front view		
	Handle connectors and pins with care and use matching measuring probes.		
Technical data	Component check, humidity sensor (F852)  This type of component cannot be checked with a multimeter or oscilloscope. Perform the following to assess the component:		
	<ul> <li>Monitor/test the component with DAVIE</li> <li>Perform the wiring check</li> <li>Wiring check, humidity sensor (F852)</li> </ul>		
	<ul><li>Preparation</li><li>Switch off the ignition.</li><li>Disconnect connector F852.</li></ul>		
	<ul> <li>Measure on the front side of wiring harness connector F852.</li> <li>Pin Pin Value Additional information         <ul> <li>(+ probe)</li> <li>probe)</li> </ul> </li> </ul>		
	1 2 Ubat Switch on ignition		
	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$		
Possible causes			
Possible causes	<ul><li>E-CAN communication</li><li>Faulty humidity sensor</li></ul>		
Additional information	The humidity sensor is a smart sensor that communicates with the PCI ECU via E-CAN. The sensor measures the following three properties of the drawn in precompressor (VTG turbo charger) air in the inlet air pipe:  Relative humidity Pressure Temperature		



#### **Diagnostic Step-by-Step**



The ignition should always be in the OFF position when connecting or disconnecting electrical components to reduce the likelihood of damage to the components.



- This troubleshooting procedure is based on the assumption that supply power and ground to the PCI are functioning properly.
- Disconnecting the PCI connectors during the troubleshooting process will result in multiple errors.
- Specific electrical component information and pin out locations are provided in this procedure as a reference only. Always refer to the technical data sections in Rapido for the most up-to-date changes.
- It is necessary to use DAVIE to clear all current DTCs from the PCI and EAS-3 ECUs, and then run the Quick Check to identify a change in fault status.
- This DTC can be set as a result of multiple failure modes. For proper fault isolation, complete all troubleshooting steps in the sequence provided.

# Step 1 Humidity Sensor (F852) Checks

#### Step 1A Visual inspection, connections and wiring, humidity sensor (F852)

#### **Action**

- 1. Visually inspect the associated component connections and wiring for any of the following:
  - Damaged or loose connectors
  - Bent, broken, corroded or loose connector pins
  - Moisture or dirt in the connections
  - Damage to the wire harness or insulation
  - The correct parts are not installed
  - ECU connections are damaged or disconnected
  - Batteries not fully charged or contacts are not tight

Was there evidence of any of the above?

Yes	No
Correct any issues found. If the humidity sensor (F852) is found to be damaged or broken, replace it. Refer to step 2A to perform the corresponding repair verification cycles and rechecks.	
If this DTC is still present, go to step 1B	Go to step 1B



#### Step 1B Electrical checks, supply voltage, humidity sensor (F852)



Refer to the corresponding checking data for associated supply and signal voltages, resistance values, and related connector pin test points.

#### **Action**

1. Confirm the supply voltage level as outlined in the corresponding checking data, "component check, humidity sensor (F852).

Are measured values within expected range?

Yes	No
	Correct any issues found. Refer to step 2A to perform the corresponding repair verification cycles and rechecks.
Go to step 1C	If this DTC is still present, go to step 1C

#### Step 1C Electrical checks, resistance, humidity sensor (F852) to E-CAN



Refer to the corresponding checking data for associated supply and signal voltages, resistance values, and related connector pin test points.

#### **Action**

1. Confirm the resistance value as outlined in the corresponding checking data, "component check, humidity sensor (F852).

Is the measured value within expected range?

Yes	No
	Correct any issues found. Refer to step 2A to perform the corresponding repair verification cycles and rechecks.
If all steps have been completed and this DTC is still present, contact the PACCAR Engine Support Center for further assistance.	



# **Step 2 Repair Verification**

# **Step 2A Repair verification cycles**

Perform these repair verification cycles following any corrective actions taken, to enable related OBD monitors to reach a readiness state associated with the DTC or system being investigated.



Before beginning these repair verification cycles, use the DAVIE Diagnostics, Quick Check function to "Clear all" current DTCs from the PCI and EAS-3 ECUs.

#### **Action**

1. Start-up

With the brakes set, start the engine and allow it to run at idle for 2 minutes.

Were the identified repair verification cycles able to be completed?

Yes	No
	Investigate and correct any issues preventing these repair verification cycles from being completed, then rerun. For additional assistance, contact the PACCAR Engine Support Center.
Go to step 2B	

#### Step 2B DAVIE Diagnostics, Quick Check, OBD Readiness Monitors

#### **Action**

Use DAVIE Diagnostics to perform a Quick Check for current DTCs to determine whether the actions taken have cleared this DTC.

- 1. Confirm that the corresponding OBD Monitor Readiness Status value is displayed as "Ready."
  - A status of Ready indicates that the corresponding OBD monitor has run successfully and the problem has been resolved—no further action.
  - If the displayed status is "Not ready," continue to action step 2.
- 2. View the DTC overview display, and confirm that U1071 has been cleared.

Is the related OBD Monitor Readiness Status set to "Ready." Or, has U1071 been cleared?



Yes	No
Problem resolved. No further actions.	Continue with the next step in this troubleshooting procedure.  If all steps have been completed and this DTC is still present:  • continue to operate the truck to extend the run time, allowing the corresponding OBD monitor sufficient time to complete  • or, return to step 3A and perform this repair verification again.  If this issue is still present after extending or re-running the repair verification, contact the PACCAR Engine Support Center for further assistance.
_	ne Support Center mosing this issue or for confirmation prior to components, contact the PACCAR Engine
	Back to Index

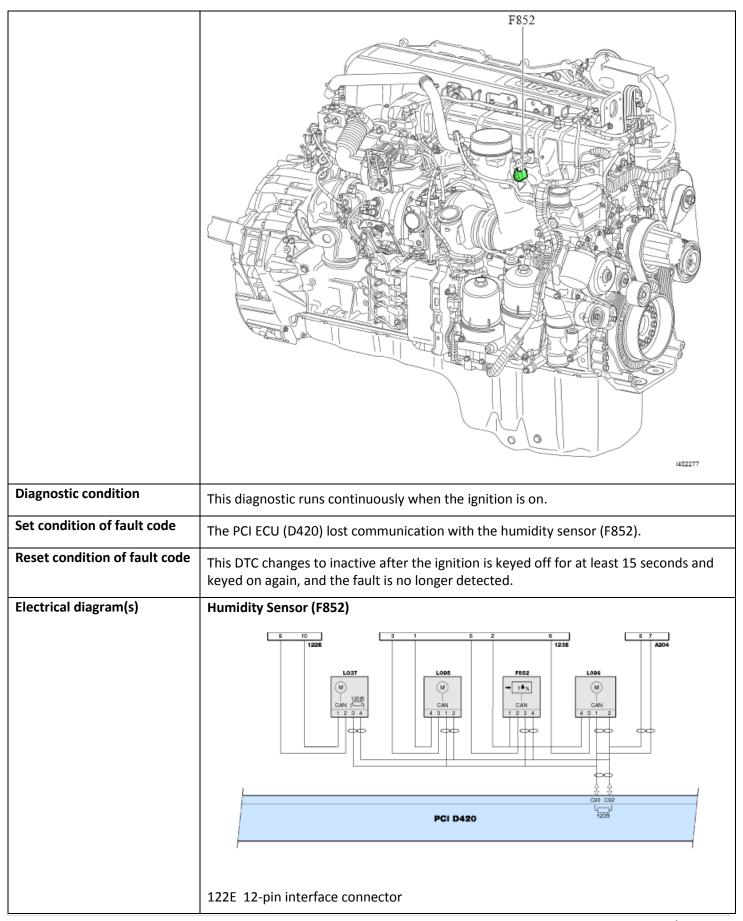


Code number	U1073	
Fault code description	Humidity sensor - CAN communication error, message rate too low	
Fault code information	1 trip MIL 3 drive cycle recovery Readiness group – None Freeze frame type – Crankcase	
Description of component(s)	Humidity sensor (F852)	
	The humidity sensor is a smart sensor that communicates with the PCI ECU via E-CAN.  The sensor is positioned in the air inlet pipe before the turbo compressor and measures the following parameters:	
	<ul><li>Relative humidity</li><li>Temperature</li><li>Pressure</li></ul>	
	Inlet air humidity – before the turbo compressor	
	The relative humidity refers to the moisture percentage of the air.	
	Effect on the system	
	Determines NOx emissions     Higher measured relative humidity results in a lower calculated NOx emission.	
	Inlet air temperature – before the turbo compressor	
	Determines soot emissions	
	Higher measured precompressor temperature results in lower calculated soot formation in the engine.	
	Calculates exhaust gas pressure before the turbine;	
	Higher measured precompressor temperature results in lower calculated exhaust gas pressure before the turbine.	
	<ul> <li>Limits the maximum engine torque; for example, to limit the cylinder pressures during cold ambient conditions or driving at high altitudes.</li> <li>to determine turbo charger compressor flow and thus the detection of VTG surge;</li> </ul>	
	Surge can typically occur at high compressor pressure ratios and low compressor mass flows.	
	calculation of the temperature after the turbo charger compressor;	



Location of component(s)	Humidity sensor (F852)
	<ul> <li>Lower measured precompressor pressure results in higher engine torque reduction.</li> <li>Detects VTG surge, the sensor is used to determine the compressor pressure ratio; surge can typically occur at high compressor pressure ratios and low compressor mass flows.</li> </ul>
	<ul> <li>Limits the maximum engine torque when driving at high altitudes (low air density)</li> </ul>
	A lower measured pre-compressor pressure results in a higher calculated temperature after the turbo charger compressor.
	Calculates the temperature after the turbocharger compressor
	Higher measured precompressor pressure results in lower calculated soot formation in the engine.
	Determines soot emissions
	Higher measured precompressor pressure results in higher calculated exhaust gas pressure before the turbine.
	Corrects pressure before turbine
	Inlet air pressure - before the turbo compressor
	for the temperature after the turbocharger compressor.
	A higher measured pre-compressor temperature results in a higher calculation







123E 7-pin interface connector

A204 Electronic fan interface connector

D420 PCI ECU

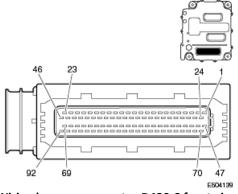
F852 humidity sensor

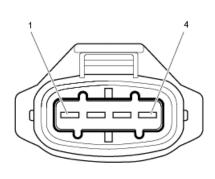
L037 VTG turbocharger actuator

L095 EGR valve module

L096 BPV valve

D420	F852	Function
C90	3	E-CAN high
C92	4	E-CAN low
	1	Power supply after ignition
	2	Ground





Wiring harness connector D420.C front view

Wiring harness connector F852 front view



Handle connectors and pins with care and use matching measuring probes.

# **Technical data**

# Component check, humidity sensor (F852)

This type of component cannot be checked with a multimeter or oscilloscope. Perform the following to assess the component:

- Monitor/test the component with DAVIE
- Perform the wiring check

Wiring check, humidity sensor (F852)

Preparation



	<ul> <li>Switch off the ignition.</li> <li>Disconnect connector F852.</li> <li>Measure on the front side of wiring harness connector F852.</li> </ul>			
	Pin (+ probe)	Pin (- probe)	Value	Additional information
	1	2	Ubat	Switch on ignition
	3	4	± 60 Ω	Switch off ignition
				Ground cable from the battery disconnected
				DAVIE Vehicle Communication Interface     (VCI) disconnected
Possible causes	E-CAN communication			
	Faulty hu	umidity sens	sor	
Additional information	The humidity sensor is a smart sensor that communicates with the PCI ECU via E-CAN.  The sensor measures the following three properties of the drawn in precompressor  (VTG turbo charger) air in the inlet air pipe:  Relative humidity Pressure Temperature			
Diagnostic Step-by-Step	The ignition should always be in the OFF position when connecting or disconnecting electrical components to reduce the likelihood of damage to the components.  This troubleshooting procedure is based on the assumption that supply power and ground to the PCI are functioning properly.			
			ecting the I	PCI connectors during the troubleshooting process ple errors.
	•	provided	d in this pro	omponent information and pin out locations are ocedure as a reference only. Always refer to the ions in Rapido for the most up-to-date changes.
	•			se DAVIE to clear all current DTCs from the PCI and en run the Quick Check to identify a change in fault
	•			as a result of multiple failure modes. For proper plete all troubleshooting steps in the sequence



provided.

# Step 1 Humidity Sensor (F852) Checks

#### Step 1A Visual inspection, connections and wiring, humidity sensor (F852)

#### Action

- 1. Visually inspect the associated component connections and wiring for any of the following:
  - Damaged or loose connectors
  - Bent, broken, corroded or loose connector pins
  - Moisture or dirt in the connections
  - Damage to the wire harness or insulation
  - The correct parts are not installed
  - ECU connections are damaged or disconnected
  - Batteries not fully charged or contacts are not tight

Was there evidence of any of the above?

Yes	No
Correct any issues found. If the humidity sensor (F852) is found to be damaged or broken, replace it. Refer to step 2A to perform the corresponding repair verification cycles and rechecks.	
If this DTC is still present, go to step 1B	Go to step 1B

#### Step 1B Electrical checks, supply voltage, humidity sensor (F852)



Refer to the corresponding checking data for associated supply and signal voltages, resistance values, and related connector pin test points.

#### Action

1. Confirm the supply voltage level as outlined in the corresponding checking data, "component check, humidity sensor (F852).

Are measured values within expected range?



Yes	No
	Correct any issues found. Refer to step 2A to perform the corresponding repair verification cycles and rechecks.
Go to step 1C	If this DTC is still present, go to step 1C

# Step 1C Electrical checks, resistance, humidity sensor (F852) to E-CAN



Refer to the corresponding checking data for associated supply and signal voltages, resistance values, and related connector pin test points.

#### **Action**

1. Confirm the resistance value as outlined in the corresponding checking data, "component check, humidity sensor (F852).

Is the measured value within expected range?

Yes	No
	Correct any issues found. Refer to step 2A to perform the corresponding repair verification cycles and rechecks.
If all steps have been completed and this DTC is still present, contact the PACCAR Engine Support Center for further assistance.	

#### **Step 2 Repair Verification**

# **Step 2A Repair verification cycles**

Perform these repair verification cycles following any corrective actions taken, to enable related OBD monitors to reach a readiness state associated with the DTC or system being investigated.



Before beginning these repair verification cycles, use the DAVIE Diagnostics, Quick Check function to "Clear all" current DTCs from the PCI and EAS-3 ECUs.



# Action 1. Start-up With the brakes set, start the engine and allow it to run at idle for 2 minutes. Were the identified repair verification cycles able to be completed? Yes No Investigate and correct any issues preventing these repair verification cycles from being completed, then re-run. For additional assistance, contact the PACCAR Engine Support Center. Go to step 2B

#### Step 2B DAVIE Diagnostics, Quick Check, OBD Readiness Monitors

#### **Action**

Use DAVIE Diagnostics to perform a Quick Check for current DTCs to determine whether the actions taken have cleared this DTC.

1. Confirm that the corresponding OBD Monitor Readiness Status value is displayed as "Ready."

A status of Ready indicates that the corresponding OBD monitor has run successfully and the problem has been resolved—no further action. If the displayed status is "Not ready," continue to action step 2.

2. View the DTC overview display, and confirm that U1073 has been cleared.

Is the related OBD Monitor Readiness Status set to "Ready." Or, has U1073 been cleared?

Yes	No
Problem resolved. No further actions.	Continue with the next step in this troubleshooting procedure.  If all steps have been completed and this DTC is still present:  • continue to operate the truck to extend the run time, allowing the corresponding OBD monitor sufficient time to complete  • or, return to step 2A and perform this repair verification again.
	If this issue is still present after extending



	or re-running the repair verification, contact the PACCAR Engine Support Center for further assistance.
i	Contacting the PACCAR Engine Support Center  For further assistance in diagnosing this issue or for confirmation prior to the replacement of suspect components, contact the PACCAR Engine Support Call Center.
	Back to Index

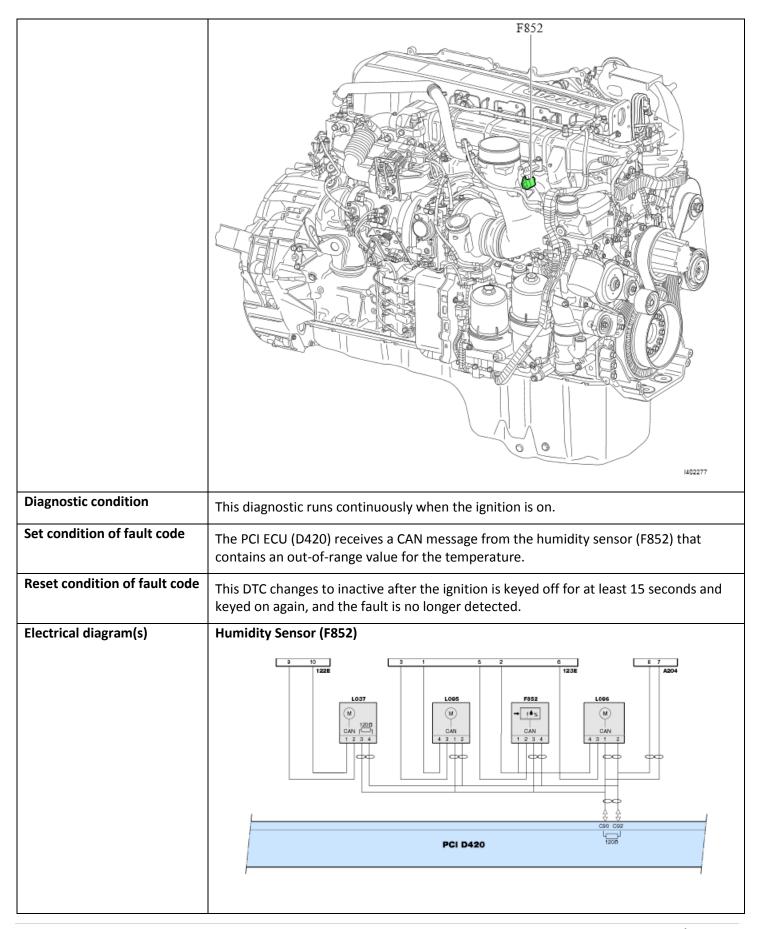


Code number	U1074	
Fault code description	Inlet air temperature before compressor - Data erratic, intermittent or incorrect	
Fault code information	1 trip MIL 3 drive cycle recovery Readiness group – None Freeze frame type – Crankcase	
Description of component(s)	Humidity sensor (F852)	
	The humidity sensor is a smart sensor that communicates with the PCI ECU via E-CAN.  The sensor is positioned in the air inlet pipe before the turbo compressor and measures the following parameters:	
	<ul> <li>Relative humidity</li> <li>Temperature</li> <li>Pressure</li> </ul>	
	Inlet air humidity – before the turbo compressor	
	The relative humidity refers to the moisture percentage of the air.	
	Effect on the system	
	Determines NOx emissions     Higher measured relative humidity results in a lower calculated NOx emission.	
	Inlet air temperature – before the turbo compressor	
	Determines soot emissions	
	Higher measured precompressor temperature results in lower calculated soot formation in the engine.	
	Calculates exhaust gas pressure before the turbine;	
	Higher measured precompressor temperature results in lower calculated exhaust gas pressure before the turbine.	
	<ul> <li>Limits the maximum engine torque; for example, to limit the cylinder pressures during cold ambient conditions or driving at high altitudes.</li> <li>to determine turbo charger compressor flow and thus the detection of VTG surge;</li> </ul>	
	Surge can typically occur at high compressor pressure ratios and low compressor mass flows.	
	calculation of the temperature after the turbo charger compressor;	



Location of component(s)	Humidity sensor (F852)
	<ul> <li>Detects VTG surge, the sensor is used to determine the compressor pressure ratio; surge can typically occur at high compressor pressure ratios and low compressor mass flows.</li> </ul>
	Limits the maximum engine torque when driving at high altitudes (low air density)  Lower measured precompressor pressure results in higher engine torque
	A lower measured pre-compressor pressure results in a higher calculated temperature after the turbo charger compressor.
	Higher measured precompressor pressure results in lower calculated soot formation in the engine.  • Calculates the temperature after the turbocharger compressor
	Determines soot emissions
	<ul> <li>Corrects pressure before turbine</li> <li>Higher measured precompressor pressure results in higher calculated exhaust gas pressure before the turbine.</li> </ul>
	Inlet air pressure - before the turbo compressor
	for the temperature after the turbocharger compressor.
	A higher measured pre-compressor temperature results in a higher calculation







122E 12-pin interface connector

123E 7-pin interface connector

A204 Electronic fan interface connector

D420 PCI ECU

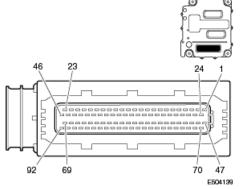
F852 humidity sensor

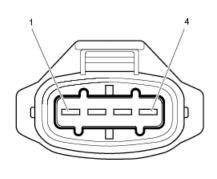
L037 VTG turbocharger actuator

L095 EGR valve module

L096 BPV valve

D420	F852	Function
C90	3	E-CAN high
C92	4	E-CAN low
	1	Power supply after ignition
	2	Ground





Wiring harness connector D420.C front view

Wiring harness connector F852 front view



Handle connectors and pins with care and use matching measuring probes.

#### **Technical data**

#### Component check, humidity sensor (F852)

This type of component cannot be checked with a multimeter or oscilloscope. Perform the following to assess the component:

- Monitor/test the component with DAVIE
- Perform the wiring check

Wiring check, humidity sensor (F852)



#### **Preparation** Switch off the ignition. Disconnect connector F852. Measure on the front side of wiring harness connector F852. Pin Pin Value **Additional information** (+ probe) (- probe) Ubat 2 Switch on ignition 4 ± 60 Ω Switch off ignition Ground cable from the battery disconnected **DAVIE Vehicle Communication Interface** (VCI) disconnected **Possible causes E-CAN** communication Faulty humidity sensor **Additional information** The humidity sensor is a smart sensor that communicates with the PCI ECU via E-CAN. The sensor measures the following three properties of the drawn in precompressor (VTG turbo charger) air in the inlet air pipe: Relative humidity Pressure Temperature **Diagnostic Step-by-Step** The ignition should always be in the OFF position when connecting or disconnecting electrical components to reduce the likelihood of damage to the components. This troubleshooting procedure is based on the assumption that supply power and ground to the PCI are functioning properly. Disconnecting the PCI connectors during the troubleshooting process will result in multiple errors. Specific electrical component information and pin out locations are provided in this procedure as a reference only. Always refer to the technical data sections in Rapido for the most up-to-date changes. It is necessary to use DAVIE to clear all current DTCs from the PCI and EAS-3 ECUs, and then run the Quick Check to identify a change in fault status. This DTC can be set as a result of multiple failure modes. For proper fault isolation, complete all troubleshooting steps in the sequence provided.



#### Step 1 Humidity Sensor (F852) Checks

#### Step 1A Visual inspection, connections and wiring, humidity sensor (F852)

#### **Action**

- 1. Visually inspect the associated component connections and wiring for any of the following:
  - Damaged or loose connectors
  - Bent, broken, corroded or loose connector pins
  - Moisture or dirt in the connections
  - Damage to the wire harness or insulation
  - The correct parts are not installed
  - ECU connections are damaged or disconnected
  - Batteries not fully charged or contacts are not tight

Was there evidence of any of the above?

Yes	No
Correct any issues found. If the humidity sensor (F852) is found to be damaged or broken, replace it. Refer to step 2A to perform the corresponding repair verification cycles and rechecks.	
If this DTC is still present, go to step 1B	Go to step 1B

#### Step 1B Electrical checks, supply voltage, humidity sensor (F852)



Refer to the corresponding checking data for associated supply and signal voltages, resistance values, and related connector pin test points.

#### **Action**

1. Confirm the supply voltage level as outlined in the corresponding checking data, "component check, humidity sensor (F852).

Are measured values within expected range?

Yes	No
	Correct any issues found. Refer to step 2A to perform the



	corresponding repair verification cycles and rechecks.
Go to step 1C	If this DTC is still present, go to step 1C

#### Step 1C Electrical checks, resistance, humidity sensor (F852) to E-CAN



Refer to the corresponding checking data for associated supply and signal voltages, resistance values, and related connector pin test points.

#### **Action**

1. Confirm the resistance value as outlined in the corresponding checking data, "component check, humidity sensor (F852).

Is the measured value within expected range?

Yes	No
	Correct any issues found. Refer to step 2A to perform the corresponding repair verification cycles and rechecks.
If all steps have been completed and this DTC is still present, contact the PACCAR Engine Support Center for further assistance.	

#### **Step 2 Repair Verification**

#### **Step 2A Repair verification cycles**

Perform these repair verification cycles following any corrective actions taken, to enable related OBD monitors to reach a readiness state associated with the DTC or system being investigated.



Before beginning these repair verification cycles, use the DAVIE Diagnostics, Quick Check function to "Clear all" current DTCs from the PCI and EAS-3 ECUs.

#### **Action**

1. Start-up

With the brakes set, start the engine and allow it to run at idle for 2 minutes.



Were the identified repair verification cycles able to be completed?	
Yes	No
	Investigate and correct any issues preventing these repair verification cycles from being completed, then re-run. For additional assistance, contact the PACCAR Engine Support Center.
Go to step 2B	

#### Step 2B DAVIE Diagnostics, Quick Check, OBD Readiness Monitors

#### **Action**

Use DAVIE Diagnostics to perform a Quick Check for current DTCs to determine whether the actions taken have cleared this DTC.

1. Confirm that the corresponding OBD Monitor Readiness Status value is displayed as "Ready."

A status of Ready indicates that the corresponding OBD monitor has run successfully and the problem has been resolved—no further action. If the displayed status is "Not ready," continue to action step 2.

2. View the DTC overview display, and confirm that U1074 has been cleared.

Is the related OBD Monitor Readiness Status set to "Ready." Or, has U1074 been cleared?

Yes	No
Problem resolved. No further actions.	Continue with the next step in this troubleshooting procedure.  If all steps have been completed and this DTC is still present:  • continue to operate the truck to extend the run time, allowing the corresponding OBD monitor sufficient time to complete  • or, return to step 2A and perform this repair verification again.  If this issue is still present after extending or re-running the repair verification, contact the PACCAR Engine Support Center for further assistance.



i	Contacting the PACCAR Engine Support Center  For further assistance in diagnosing this issue or for confirmation prior to the replacement of suspect components, contact the PACCAR Engine Support Call Center.
	Back to Index



Code number	U1104
Fault code description	CAN communication - Message (ACC1) rate too low from Advanced Emergency Braking System
Diagnostic Step-by-Step	Diagnostic and supporting information for this DTC is available in Engine Rapido.
	Back to Index

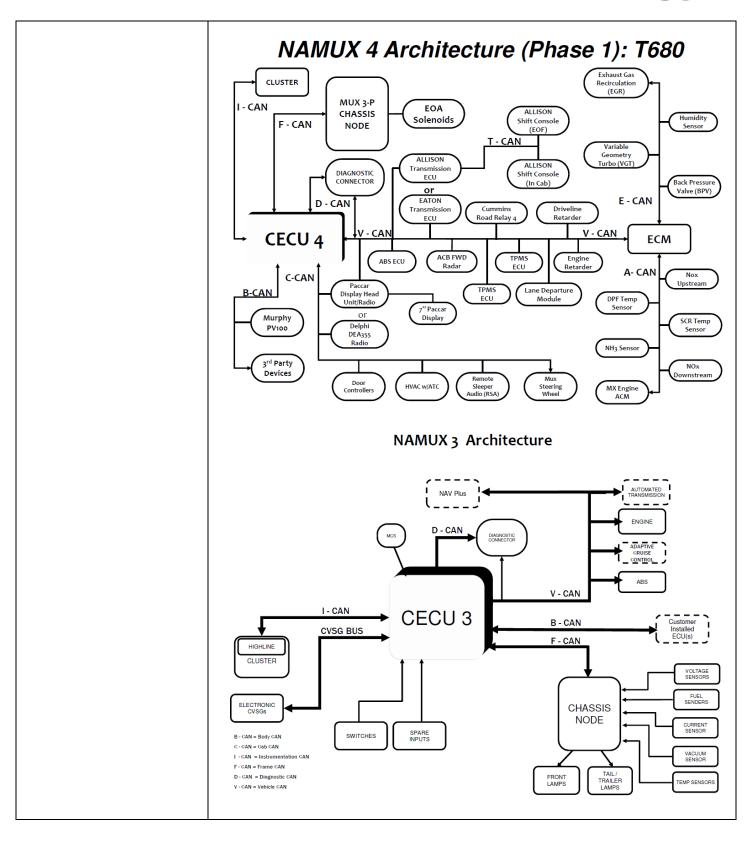


Code number	U1105
Fault code description	CAN communication - Message (PROBA_BBM_to_Eng) out of range, engine stop from Body Builder Module
	Diagnostic and supporting information for this DTC is available in Engine Rapido.
	Back to Index

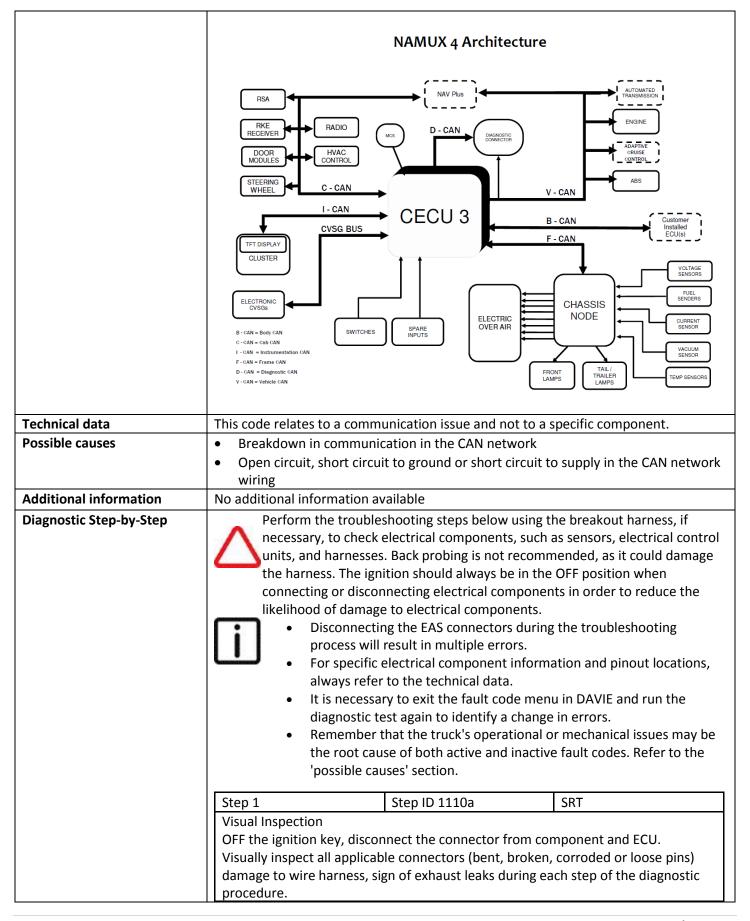


Code number	U1110
Fault code description	CAN Communication – Message (RC_DR) rate too low from retarder
Fault code information	3 drive cycle recovery
	Readiness group – None
	Freeze frame type – Generic
Description of component(s)	This code relates to a communication issue and not to a specific component.
Location of component(s)	This code relates to a communication issue and not to a specific component.
Diagnostic condition	This diagnostic runs continuously when the ignition is on.
Set condition of fault code	
Reset condition of fault code	This DTC changes to inactive as soon as the error is no longer detected.
Electrical diagram(s)	
	Diagnostic CAN  STEERING WHEEL  MCS  DIAGNOSTIC CONNECTOR  DIAGNOSTIC CONNECTOR  PACCAR DISplay  Vehicle CAN  Vehicle CAN  Vehicle CAN  CUSG BUS  ELECTRONIC CVSG BUS  SWITCHES  Frame CAN  FRONT FRAIL FRONT FRAIL FRONT FRAIL FRONT TAIL TEMP SENSORS  FRONT TRAIL TEMP SENSORS  FRONT TRAIL TEMP SENSORS









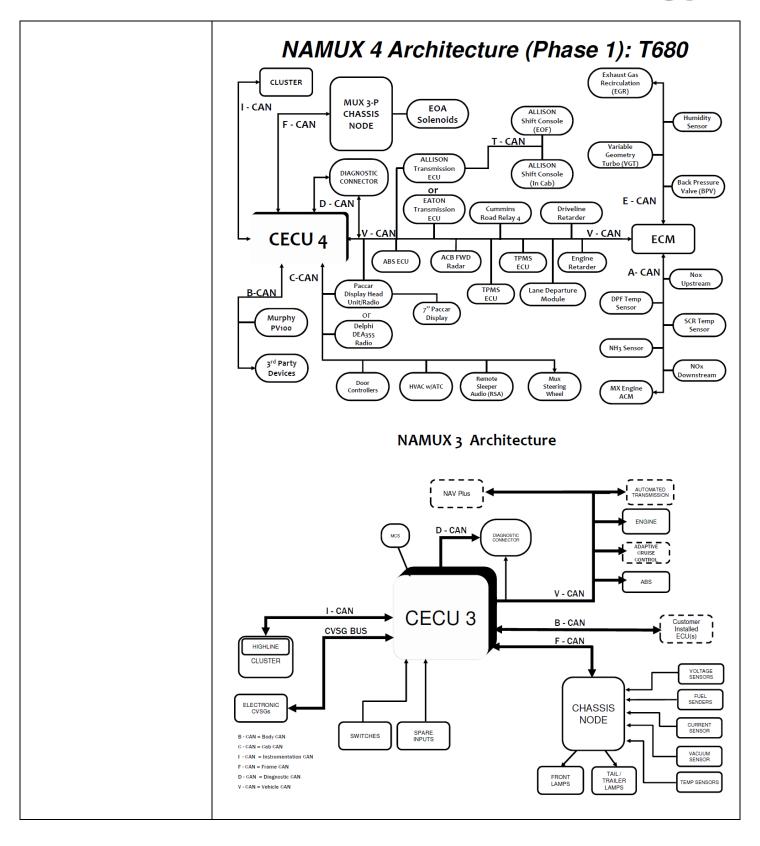


	Was there evidence	Was there evidence of any of the above?		
	No: Procee	110.1.00000.00000.000		
	Yes: Make	rest trake the appropriate repairs of component replacements.		
	Use DAVIE to re-check for the presence of active faults.			
	If this related fault is no longer active, then this issue has been resolved.			
	If this relat	ed fault is still active, Proceed	to step 2	
	Step 2	Step ID 1110b	SRT	
	Data check			
	Lookup the	technical data of the specific	system	
	Perform th	e checking data test of the spe	ecific component	
	Is test pass?			
	No: Procee	d to step 3		
	Yes : Proce	ed to step4		
	Step 3	Step ID 1110c	SRT	
	Repair or replace c	omponent		
	Repair or replace the component, also check for electrical connection and			
	wiring harness.			
	Reconnect the connector			
		ON the ignition key		
	Use DAVIE to re-check for the presence of active faults:			
	Is DTC fault active: Proceed to step 4			
	Is DTC fault inactive: Issue resolved. Clear inactive fault.			
	Step 4	Step ID 1110d	SRT	
		For further assistance in diagnosing this issue or for confirmation prior to the		
	replacement of suspect components, contact the Engine Support Call Center at			
	1-800-477-0251.			
Verification Drive Cycle			e key to the ON position with the	
	_	-	initialize and run diagnostics.	
	vvitn the brakes set,	start the engine and allow it t	o run at idle for 2 minutes.	
			Back to Index	
			Dack to illuex	

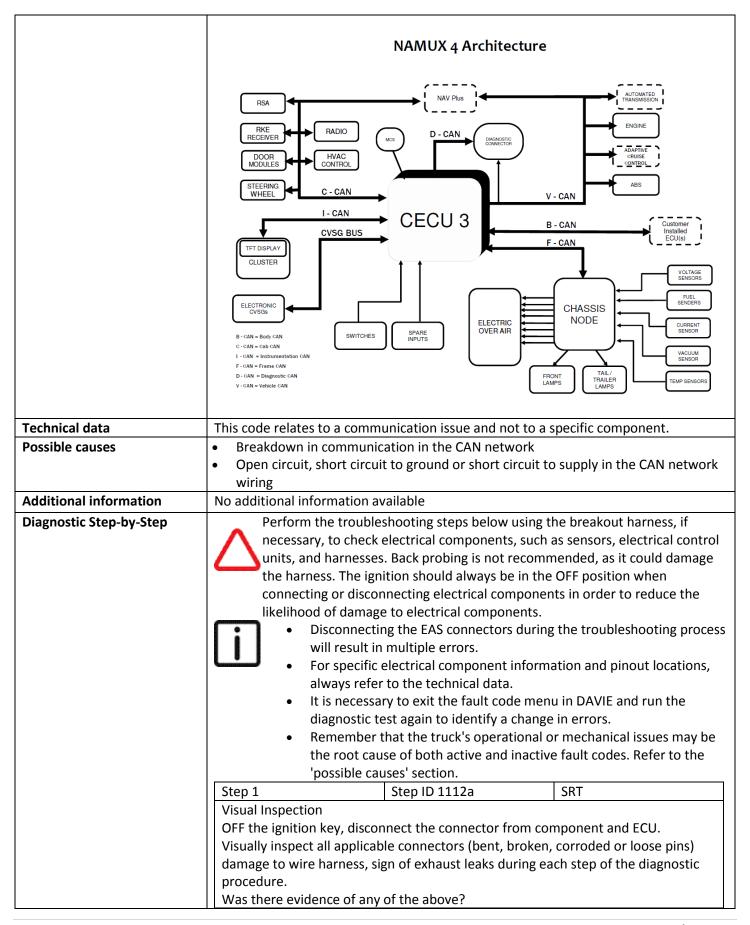


Code number	U1112		
Fault code description	CAN communication - Message (SCR1) rate too low from emission system		
Fault code information	1 trip MIL		
	3 drive cycle recovery		
	Readiness group – None		
	Freeze frame type – Generic		
Description of component(s)	This code relates to a communication issue and not to a specific component.		
Location of component(s)	This code relates to a communication issue and not to a specific component.		
Diagnostic condition	This diagnostic runs continuously when the ignition is on.		
Set condition of fault code	This condition will set when Time since last reception is greater than 0.6 sec		
Reset condition of fault code	This DTC changes to inactive as soon as the error is no longer detected.		
Electrical diagram(s)			
	NAMUX 3 Architecture: 2010 B-Cab  FIREWALL  Aftertreatment CAN  PACCAR Display  Vehicle CAN  Vehicle CAN  Vehicle CAN  Vehicle CAN  Vehicle CAN  STEERING WHEEL  Cab CAN  Vehicle CAN  Vehicle CAN  Vehicle CAN  Vehicle CAN  SPARE INPUTS  Frame CAN  FRESSURE SENSORS  SPARE INPUTS  FREWALL  FRONT  TAIL  TEMP SENSORS  FRESSURE SENSORS  FRESSURE SENSORS  FRESSURE SENSORS  FREWALL  FRONT  TAIL  TEMP SENSORS		











	No: Proce	eed to step 2.		
	Yes: Make the appropriate repairs or component replacements.			
	<ul> <li>Use DAVIE to re-check for the presence of active faults.</li> <li>If this related fault is no longer active, then this issue has been resolved.</li> </ul>			
				resolved.
	If this rel	ated fault is still active, Proceed	to step 2	
	Step 2	Step ID 1112b	SRT	
	Data check			
		up the technical data of the spe	•	
	Perfo	orm the checking data test of the	e specific component	
	Is test pass?			
		Proceed to step 3		
	• Yes:	Proceed to step 4		
			1	
	Step 3	Step ID 1112c	SRT	
	Repair or replace	•		
	Repair or replace the component, also check for electrical connection and			ection and
	wiring harness.			
		ct the connector		
	ON the ignition key			
	Use DAVIE to re-check for the presence of active faults:			
	Is DTC fault active: Proceed to step 4			
	Is DTC fac	ult inactive: Issue resolved. Clea	r inactive fault	
		10. 10.110.1		
	Step 4 Step ID 1112d SRT			
	For further assistance in diagnosing this issue or for confirmation prior to the			
	replacement of suspect components, contact the Engine Support Call Center at			
Vanification Drive Code	1-800-477-0251.			
Verification Drive Cycle	To verify the repai		عد معند معند معند معند	and allow 10
	With the brakes set, turn the key to the ON position with the engine off, and allow seconds for the system to initialize and run diagnostics.  With the brakes set, start the engine and allow it to run at idle for 2 minutes.			and allow 10
				ıtos
	with the places se	ct, start the engine and anow it t	o ruii at iule iui z iiiiiil	ates.
				Back to Index
				Back to Index



Code number	U1114
Fault code description	CAN communication - Message (AT1T1I) rate too low, DEF tank information from aftertreatment system
	Diagnostic and supporting information for this DTC is available in Engine Rapido.
	Back to Index



Code number	U1118
Fault code description	CAN communication - Message (EXH_GAS_CORR) out of range - Post SCR NOx reading stable from emission system
	Diagnostic and supporting information for this DTC is available in Engine Rapido.
	Back to Index



# **U111A**

Code number	U111A
Fault code description	CAN communication - Message (EXH_GAS_CORR) out of range, engine out NOx reading stable from aftertreatment system
	Diagnostic and supporting information for this DTC is available in Engine Rapido.
	Back to Index



# U111B

Code number	U111B
Fault code description	CAN communication - Message (EXH_GAS_CORR) out of range, engine out O2 percentage corrected from aftertreatment system
	Diagnostic and supporting information for this DTC is available in Engine Rapido.
	Back to Index



# **U111C**

Code number	U111C
Fault code description	CAN communication - Message (EXH_GAS_CORR) out of range, engine out NOx corrected from aftertreatment system
	Diagnostic and supporting information for this DTC is available in Engine Rapido.
	Back to Index



# U111D

Code number	U111D
Fault code description	CAN communication - Message (EXH_GAS_CORR) rate too low from aftertreatment system
	Diagnostic and supporting information for this DTC is available in Engine Rapido.
	Back to Index



Code number	U1120
Fault code description	CAN communication - Message (TSC1_BE) rate too low from brake system
	Diagnostic and supporting information for this DTC is available in Engine Rapido.
	Back to Index



Code number	U1122
Fault code description	CAN communication - Message (TSC1_TE) rate too low from transmission system
	Diagnostic and supporting information for this DTC is available in Engine Rapido.
	Back to Index



Code number	U1124
Fault code description	CAN communication - Message (TSC1_VE) rate too low from vehicle controller
	Diagnostic and supporting information for this DTC is available in Engine Rapido.
	Back to Index



Code number	U1126
Fault code description	CAN communication - Message (TSC1_SE) rate too low from Body Builder Module
	Diagnostic and supporting information for this DTC is available in Engine Rapido.
	Back to Index



# **U112A**

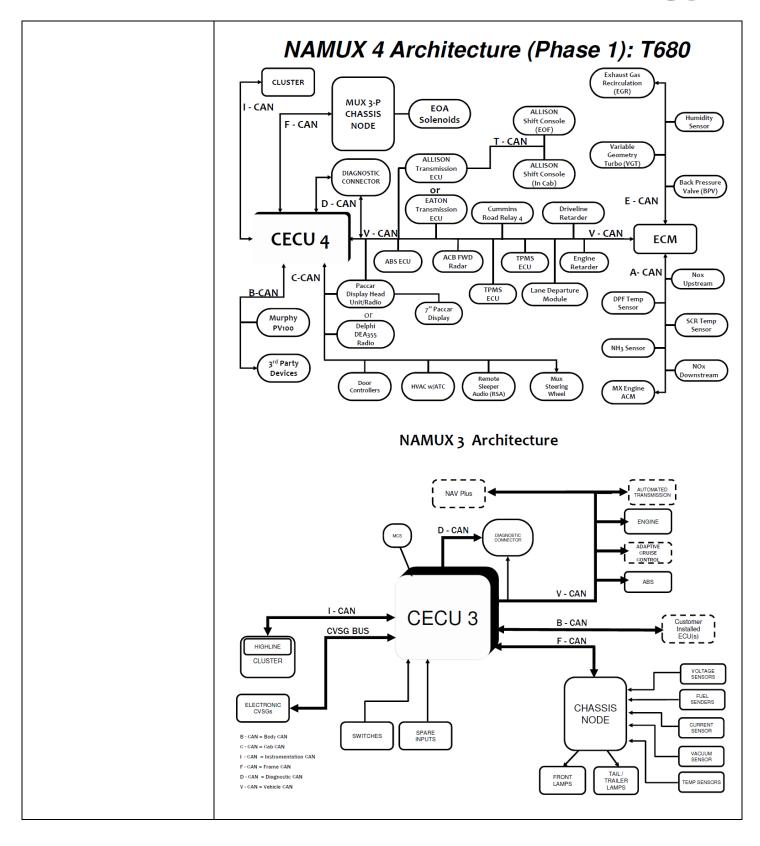
Code number	U112A		
Fault code description	CAN communication - Message (ACM) rate too low from aftertreatment system		
	Diagnostic and supporting information for this DTC is available in Engine Rapido.		
	Back to Index		



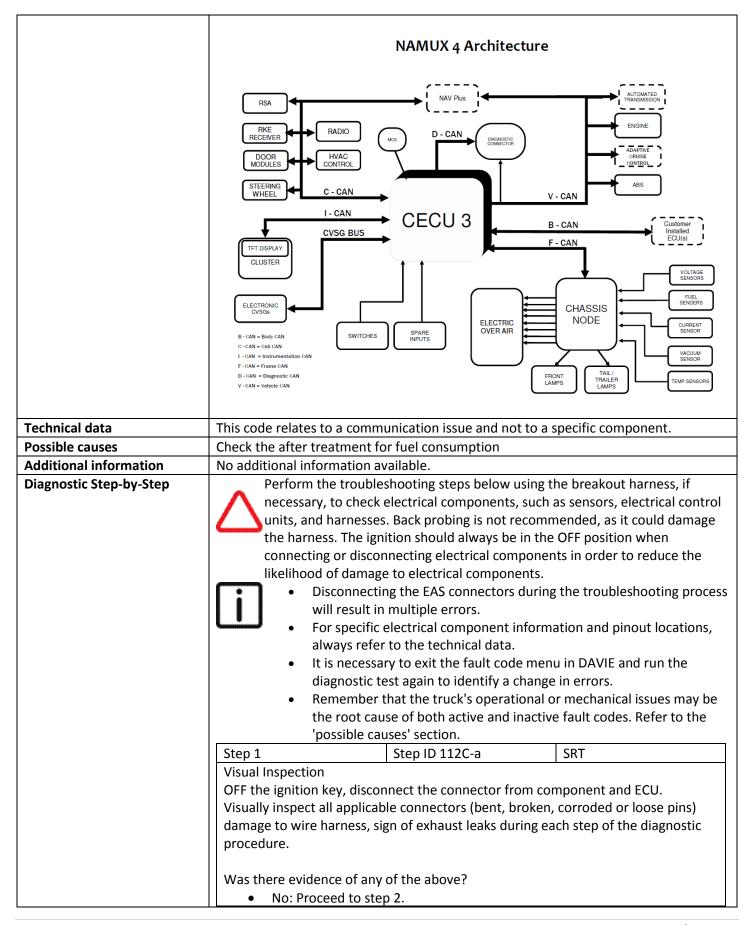
### **P112C**

Code number	U112C				
Fault code description	CAN communication - Message (AT1FC1) out of range - Fuel rate from emission				
	system				
Fault code information	1 trip MIL				
	3 drive cycle recovery				
	Readiness group – None				
	Freeze frame type – Generic				
Description of component(s)	This code relates to a communication issue and not to a specific component.				
Location of component(s)	This code relates to a communication issue and not to a specific component.				
Diagnostic condition	This diagnostic runs continuously when the ignition is on.				
Set condition of fault code	Received value of fuel rate in message (AT1FC1) is more than 3213 L/h.				
Reset condition of fault code	This DTC changes to inactive as soon as the error is no longer detected.				
Electrical diagram(s)					
	NAMUX 3 Architecture: 2010 B-Cab				
	FIREWALL Aftertreatment CAN				
	Diagnostic CAN I I				
	STEERING WHEEL				
	(NOS)				
	DIAGNOSTIC CONNECTOR CONTROL				
	PACCAR PACCAR Engine CAN ₩				
	Cluster				
	Cluster Cab CAN Actuator				
	Instrumentation CAN Vehicle CAN After-treatment DCU				
	CECU 3 Vehicle CAN Vehicle CAN Vehicle CAN VOLTAGE				
	CVSG BUS SENSORS				
	† † † FUEL SENDERS				
	ELECTRONIC CVSG's CURRENT				
	SWITCHES FRAME CAN CHASSIS SENSOR				
	SWITCHES Frame CAN NODE PRESSURE SENSORS				
	SPARE				
	SENSOR SENSOR				
	FRONT TAIL / TEMP SENSORS				
	FIREWALL LAMPS LAMPS				











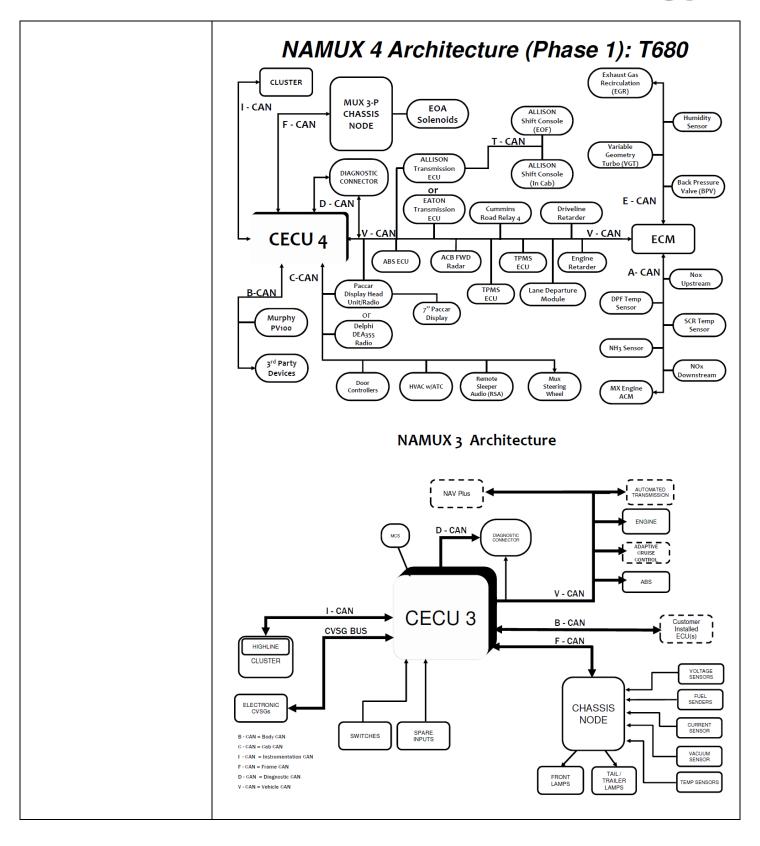
	Yes: Make t	Yes: Make the appropriate repairs or component replacements.		
	Use DAVIE to re-check for the presence of active faults.  • If this related fault is no longer active, then this issue has been resolved.  • If this related fault is still active, Proceed to step 2			
	Step 2	Step ID 112C-b	SRT	
	Data check  • Lookup the technical data of the specific system			
	<ul> <li>Perform the checking data test of the specific component</li> <li>Is test pass?</li> <li>No: Proceed to step 3</li> <li>Yes: Proceed to step 4</li> </ul>			
	Step 3	Step ID 112C-c	SRT	
	<ul> <li>Repair or replace component</li> <li>Repair or replace the component, also check for electrical connection a wiring harness.</li> </ul>			
	<ul> <li>Reconnect the connector</li> <li>ON the ignition key</li> <li>Use DAVIE to re-check for the presence of active faults:</li> <li>Is DTC fault active: Proceed to step 4</li> <li>Is DTC fault inactive: Issue resolved. Clear inactive fault</li> </ul>			
	Step 4	Step ID 112C-d	SRT	
	For further assistance in diagnosing this issue or for confirmation prior to the replacement of suspect components, contact the Engine Support Call Center at 1-800-477-0251.			
Verification Drive Cycle	To validate the repair, with the brakes set, turn the key to the ON position with the engine off, and allow 10 seconds for the system to initialize and run diagnostics.  With the brakes set, start the engine and allow it to run at idle for 2 minutes.			
			Back to Index	



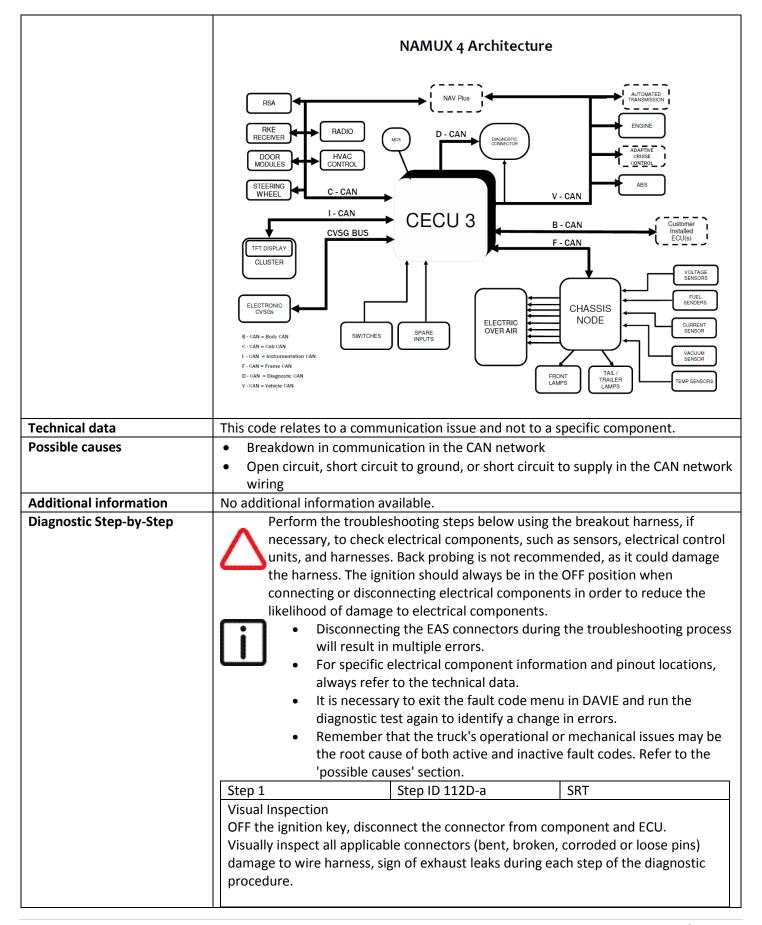
### P112D

Code number	U112D			
Fault code description	CAN communication - Message (AT1FC1) rate too low from emission system			
Fault code information	1 trip MIL			
Taut code information	3 drive cycle recovery			
	Readiness group – None			
	Freeze frame type – Generic			
Description of component(s)	This code relates to a communication issue and not to a specific component.			
Location of component(s)	This code relates to a communication issue and not to a specific component.  This code relates to a communication issue and not to a specific component.			
Diagnostic condition	This diagnostic runs continuously when the ignition is on.			
Set condition of fault code	CAN command message AT1FC1 is missing for more than 1.5 sec.			
Reset condition of fault code	This DTC changes to inactive as soon as the error is no longer detected.			
Electrical diagram(s)	This DTC changes to inactive as soon as the error is no longer detected.			
	NAMUX 3 Architecture: 2010 B-Cab			
	FIREWALL Aftertreatment CAN			
	Diagnostic CAN AUTO TRANSMISSION ENGINE			
	WHEEL I TOWNE )			
	MICS DIAGNOSTIC ABS CRUISE CONTROL CONTROL			
	CONNECTOR			
	PACCAR Display VGT FINE CAN ▼			
	Cluster Cab CAN Actuator			
	After-treatment			
	CECU 3  Vehicle CAN  CVSG BUS  Vehicle CAN  Voltage SENSORS			
	THE CONTROL OF THE CO			
	ELECTRONIC SENDERS SENDERS			
	CVSG'S CURRENT SENSOR			
	SWITCHES Frame CAN CHASSIS PRESSURE SENSORS			
	SPARE INPUTS VACUUM SENSOR			
	FRONT TAIL TEMP SENSORS			
	FIREWALL LAMPS TRAILER LAMPS			
	l l			











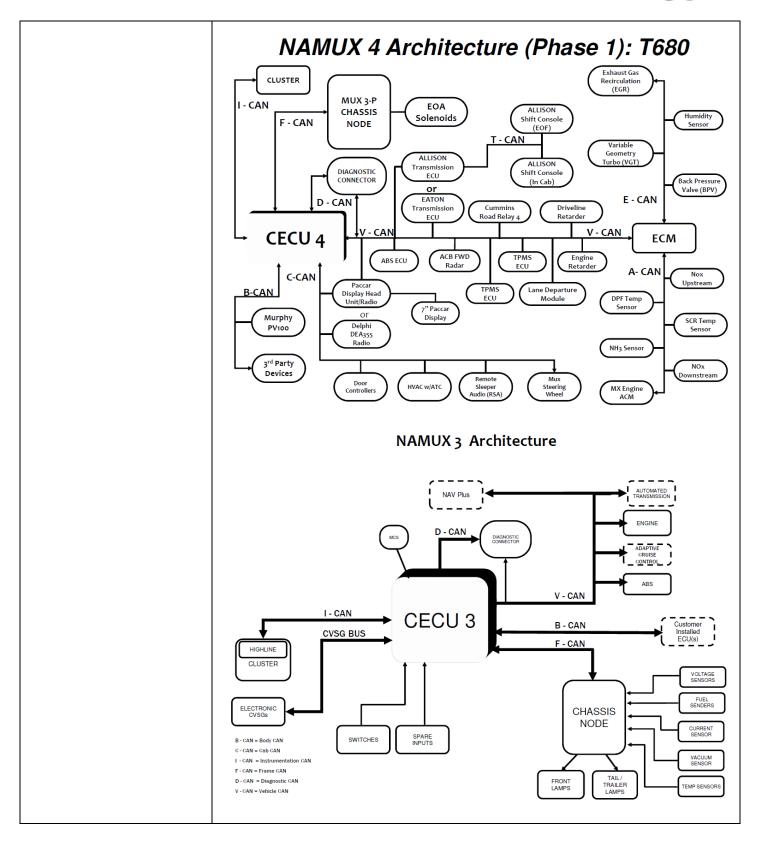
	Was there evidence of a	ny of the above?	
	No: Proceed to:	step 2.	
	Yes: Make the a	ppropriate repairs or com	ponent replacements.
	Use DAVIE to re-check f	or the presence of active f	aults
		•	n this issue has been resolved.
		ult is still active, Proceed t	
	- II this related to	are is semi-decive, i rocced t	0 3tcp 2
	Step 2	Step ID 112D-b	SRT
	Data check		
	Lookup the tech	nical data of the specific s	ystem
	Perform the che	ecking data test of the spec	cific component
	Is test pass?		
	No: Proceed to:	sten 3	
	Yes : Proceed to	•	
	Step 3	Step ID 112D-c	SRT
	Repair or replace compo	onent	
	· ·	e the component, also che	eck for electrical connection and
	wiring harness.		
	Reconnect the connect the		
	ON the ignition	•	
		or the presence of active f	aults:
		ve: Proceed to step 4	
	Is DTC fault inaction	tive: Issue resolved. Clear	inactive fault
	Step 4	Step ID 112D-d	SRT
			or confirmation prior to the
			Engine Support Call Center at
	1-800-477-0251.		
Verification Drive Cycle			key to the ON position with the
			initialize and run diagnostics.
	With the brakes set, start	the engine and allow it to	run at idle for 2 minutes.
			Back to Index
			<u> </u>



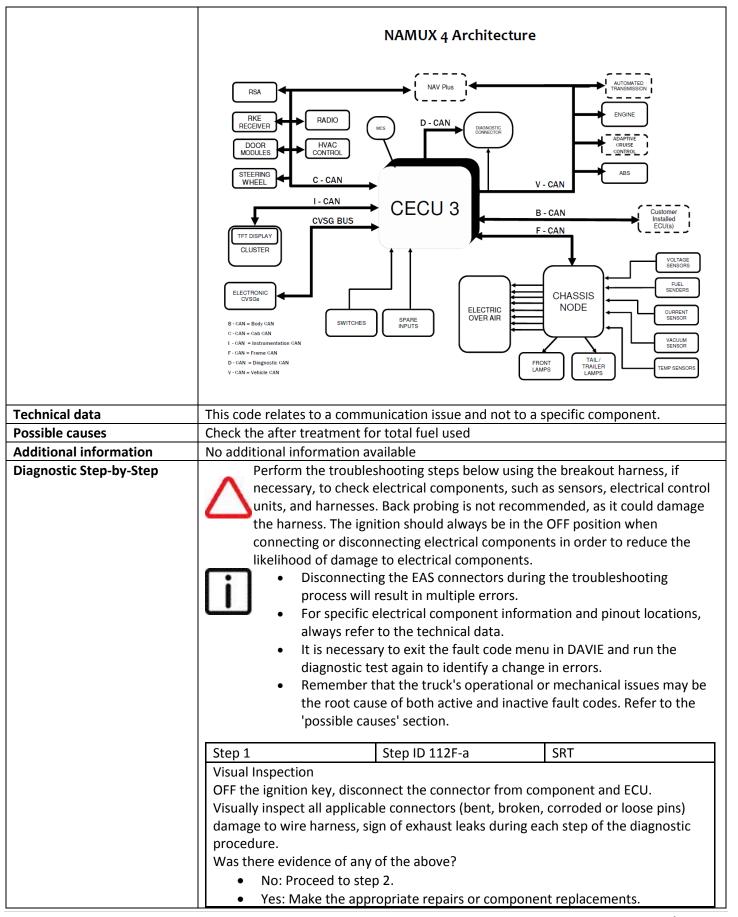
# U112F

Code number	U112F	
Fault code description	CAN communication - Message (AT1HI) out of range - total fuel used from emission	
	system	
Fault code information	3 drive cycle recovery	
	Readiness group – None	
	Freeze frame type – Generic	
Description of component(s)	This code relates to a communication issue and not to a specific component.	
Location of component(s)	This code relates to a communication issue and not to a specific component.	
Diagnostic condition	This diagnostic runs continuously when the ignition is on.	
Set condition of fault code		
Reset condition of fault code	This DTC changes to inactive as soon as the error is no longer detected.	
Electrical diagram(s)		
	NAMUX 3 Architecture: 2010 B-Cab  FIREWALL Aftertreatment CAN  STEERING WHEEL  MCS  Diagnostic CAN  UTRANSMISSION  ABS  PACCAR Display  PACCAR Display  Vehicle CAN  Vehicle CAN  Vehicle CAN  CVSG BUS  SPARE INPUTS  FRONT  TAIL  TEMP SENSOR  FIREWALL  FRONT  TAIL  TEMP SENSORS  FIREWALL  FRONT  TAIL  TEMP SENSORS	









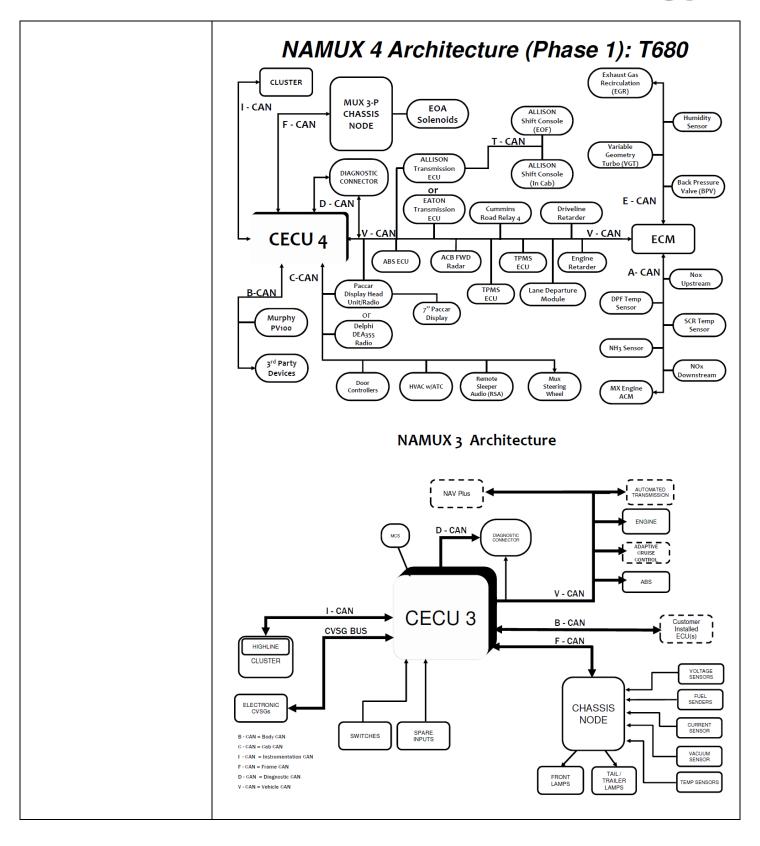


	<ul> <li>Use DAVIE to re-check for the presence of active faults.</li> <li>If this related fault is no longer active, then this issue has been resolved.</li> <li>If this related fault is still active, Proceed to step 2</li> </ul>
	Step 2 Step ID 112F-b SRT
	Data check  Lookup the technical data of the specific system  Perform the checking data test of the specific component
	Is test pass?  No: Proceed to step 3  Yes: Proceed to step4
	Step 3 Step ID 112F-c SRT
	Repair or replace component
	<ul> <li>Repair or replace the component, also check for electrical connection and wiring harness .</li> <li>Reconnect the connector</li> <li>ON the ignition key</li> </ul>
	Use DAVIE to re-check for the presence of active faults:  • Is DTC fault active: Proceed to step 4
	Is DTC fault inactive : Issue resolved. Clear inactive fault.
	Step 4 Step ID 112F-d SRT
	For further assistance in diagnosing this issue or for confirmation prior to the replacement of suspect components, contact the Engine Support Call Center at 1-800-477-0251.
Verification Drive Cycle	To validate the repair, with the brakes set, turn the key to the ON position with the engine off, and allow 10 seconds for the system to initialize and run diagnostics. With the brakes set, start the engine and allow it to run at idle for 2 minutes.
	Back to Index

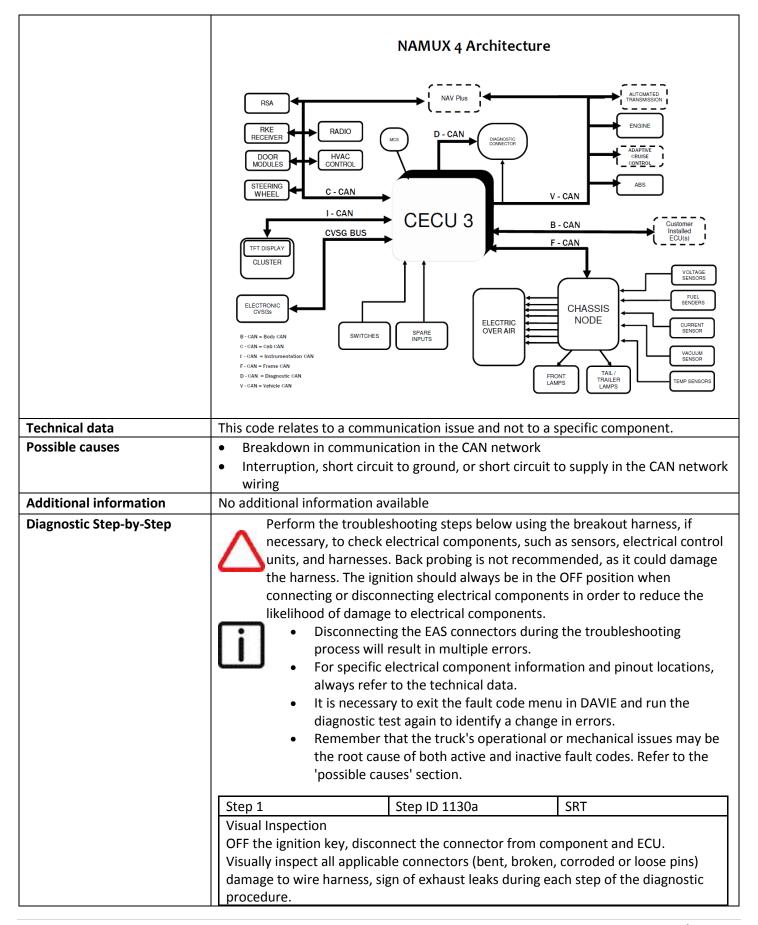


Code number	U1130	
Fault code description	CAN communication - Message (AT1HI) out of range - Distance between active DPF	
	regenerations from emission system	
Fault code information	3 drive cycle recovery	
	Readiness group – None	
	Freeze frame type – Generic	
Description of component(s)	This code relates to a communication issue and not to a specific component.	
Location of component(s)	This code relates to a communication issue and not to a specific component.	
Diagnostic condition	This diagnostic runs continuously when the ignition is on.	
Set condition of fault code		
Reset condition of fault code	This DTC changes to inactive as soon as the error is no longer detected.	
Electrical diagram(s)		
	NAMUX 3 Architecture: 2010 B-Cab  FIREWALL  STEERING WHEEL  MCS  DIAGNOSTIC CONNECTOR  PACCAR DISPLAY  Vehicle CAN  Vehicle CAN  Vehicle CAN  CVSG BUS  SPARE INPUTS  FIREWALL  FRONT  TAIL/ TEMP SENSORS  FIREWALL  Aftertreatment CAN  Aftertreatment CAN  Aftertreatment CAN  Aftertreatment CAN  CURRENT SENSOR  FUEL CURRENT SENSOR  FIREWALL  FRONT  TAIL/ TEMP SENSORS  FIREWALL  FRONT  TAIL/ TEMP SENSORS	









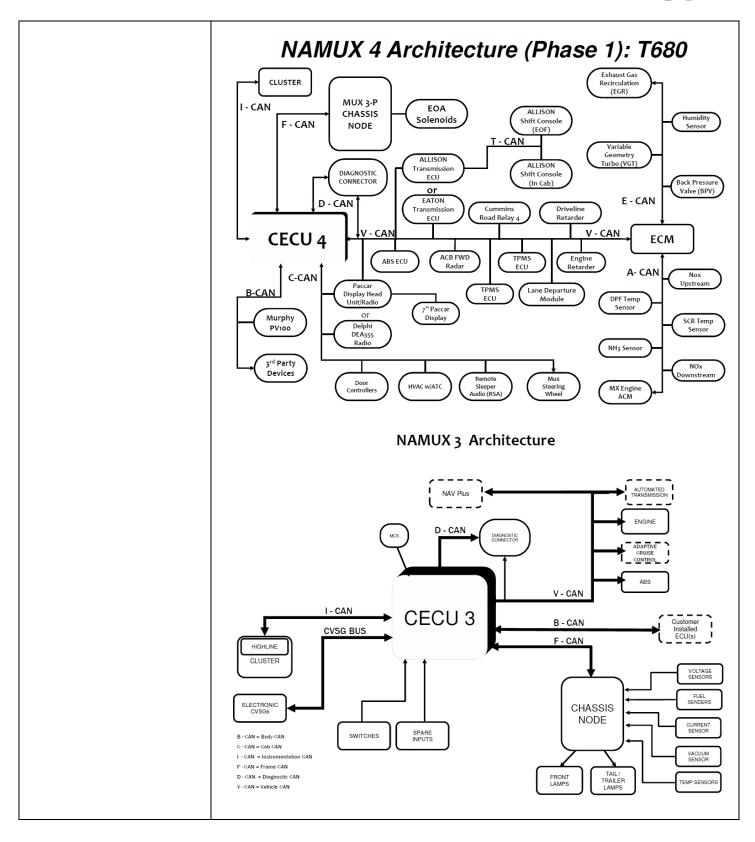


		of any of the above?	
	No: Proceed	d to step 2.	
		he appropriate repairs or cor	•
	Use DAVIE to re-che	eck for the presence of active	faults.
	If this relate	ed fault is no longer active, th	en this issue has been resolved.
	If this relate	ed fault is still active, Proceed	to step 2
	Step 2	Step ID 1130b	SRT
	Data check		
	<ul> <li>Lookup the</li> </ul>	technical data of the specific	system
	Perform the	checking data test of the spe	ecific component
	Is test pass?		
	No: Proceed	d to step 3	
	Yes : Procee	ed to step4	
	Step 3	Step ID 1130c	SRT
	Repair or replace co	omponent	
	Repair or re	place the component, also ch	neck for electrical connection and
	wiring harn	ess.	
	Reconnect	the connector	
	ON the igni	tion key	
	Use DAVIE to re-che	eck for the presence of active	faults:
	Is DTC fault	active: Proceed to step 4	
	Is DTC fault	inactive : Issue resolved. Clea	ar inactive fault.
	Step 4	Step ID 1130d	SRT
	For further assistan	ce in diagnosing this issue or	for confirmation prior to the
			Engine Support Call Center at
	1-800-477-0251.		_
Verification Drive Cycle	To validate the repai	r, with the brakes set, turn th	e key to the ON position with the
	engine off, and allow	10 seconds for the system to	initialize and run diagnostics.
	With the brakes set,	start the engine and allow it t	to run at idle for 2 minutes.
			Back to Index

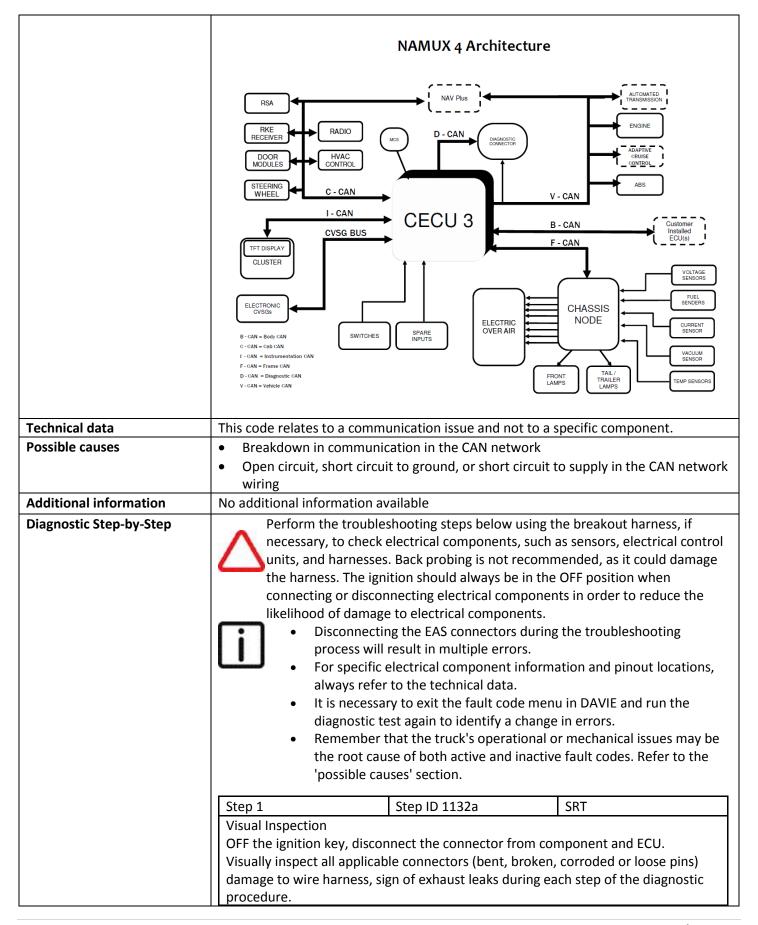


Code number	U1132
Fault code description	CAN communication - Message (CM1) rate too low from vehicle controller
Fault code information	3 drive cycle recovery
	Readiness group – None
	Freeze frame type – Generic
Description of component(s)	This code relates to a communication issue and not to a specific component.
Location of component(s)	This code relates to a communication issue and not to a specific component.
Diagnostic condition	This diagnostic runs continuously when the ignition is on.
Set condition of fault code	
Reset condition of fault code	This DTC changes to inactive as soon as the error is no longer detected.
	NAMUX 3 Architecture: 2010 B-Cab  FIREWALL  STEERING WHEEL  Diagnostic CAN  STEERING WHEEL  DIAGNOSTIC CONNECTOR  PACCAR DISPLAY  Vehicle CAN  Vehicle CAN  Vehicle CAN  Vehicle CAN  Vehicle CAN  STEERING  VOLTAGE SENSORS  SENSORS  SENSORS  SENSORS  SENSORS  FRAME INPUTS  FIREWALL  FIRE









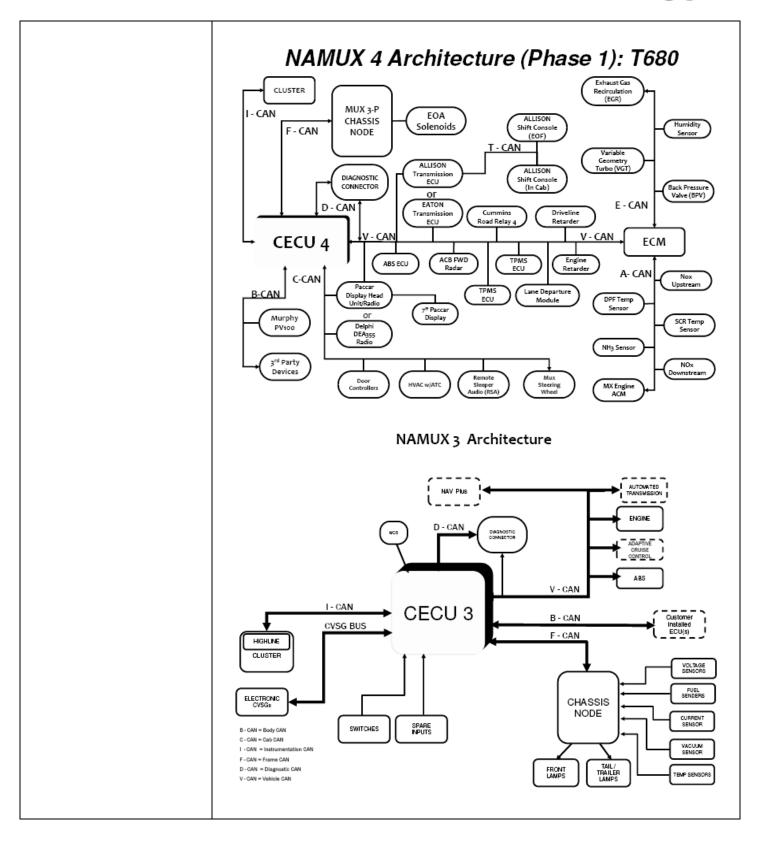


	Was there evidence of	any of the above?	
	No: Proceed to	-	
	Yes: Make the	appropriate repairs or com	ponent replacements.
	Use DAVIE to re-check	for the presence of active f	aults.
	If this related	fault is no longer active, the	n this issue has been resolved.
	If this related	fault is still active, Proceed t	to step 2
	Step 2	Step ID 1132b	SRT
	Data check	· ·	<u> </u>
	Lookup the te	chnical data of the specific s	system
	-	hecking data test of the spe	
	Is test pass?		·
	No: Proceed to	o step 3	
	Yes : Proceed	to step4	
		·	
	Step 3	Step ID 1132c	SRT
	Repair or replace com	ponent	
	Repair or repla	ace the component, also cho	eck for electrical connection and
	wiring harness	5.	
	Reconnect the	connector	
	ON the ignitio	n key	
	Use DAVIE to re-check	for the presence of active f	aults:
	Is DTC fault ac	tive: Proceed to step 4	
	Is DTC fault inc	active: Issue resolved. Clear	inactive fault.
	Step 4	Step ID 1132d	SRT
			or confirmation prior to the
	1 1	ct components, contact the	Engine Support Call Center at
	1-800-477-0251.		
Verification Drive Cycle	To validate the repair, v	vith the brakes set, turn the	key to the ON position with the
	engine off, and allow 10	seconds for the system to	initialize and run diagnostics.
	With the brakes set, sta	rt the engine and allow it to	run at idle for 2 minutes.
			Building 1
			Back to Index

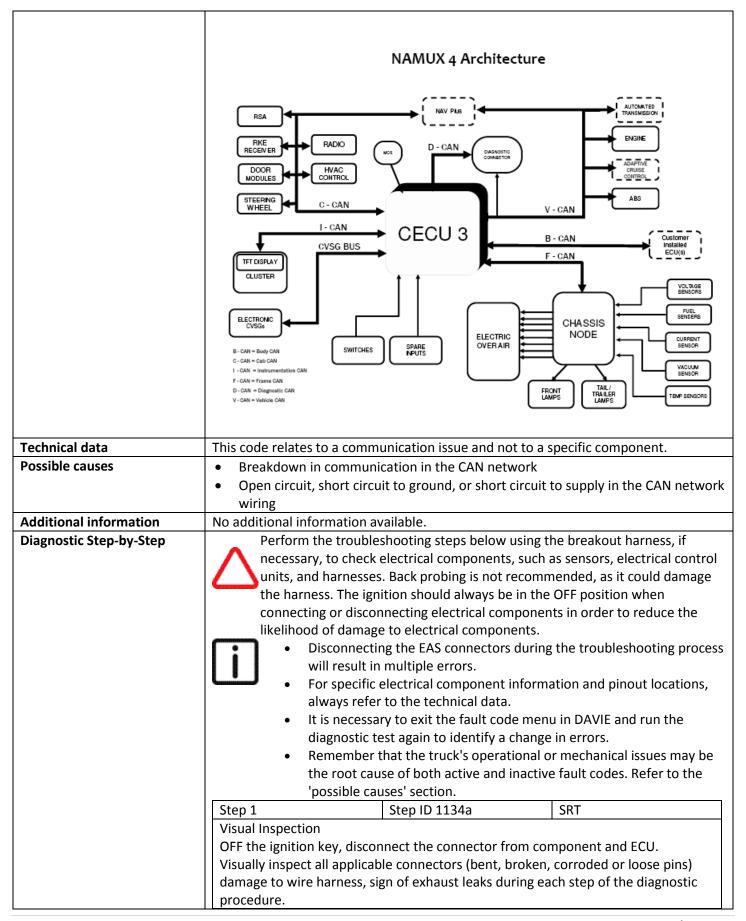


Code number	U1134
Fault code description	CAN communication - Message (A1SCRDSR2) rate too low from emission system
Fault code information	1 trip MIL
	3 drive cycle recovery
	Readiness group – None
	Freeze frame type – Generic
Description of component(s)	This code relates to a communication issue and not to a specific component.
Location of component(s)	This code relates to a communication issue and not to a specific component.
Diagnostic condition	This diagnostic runs continuously when the ignition is on.
Set condition of fault code	CAN command message A1SCRDSR2 is missing for more than 1.5 sec.
Reset condition of fault code	This DTC changes to inactive as soon as the error is no longer detected.
Electrical diagram(s)	
	NAMUX 3 Architecture: 2010 B-Cab  FIREWALL Aftertreatment CAN  STEERING WHEEL  MCS  DIAGNOSTIC CONNECTOR  DIAGNOSTIC CONNECTOR  PACCAR DISplay  Vehicle CAN  Vehicle CAN  FUEL SENDORS SENSORS  SPARE INPUTS  SPARE INPUTS  FIREWALL  FRONT TRAIL/ TRAI











	Was there evidence	e of any of the above?	
	No: Procee	ed to step 2.	
	Yes: Make	the appropriate repairs or com	ponent replacements.
	Lies DAV/IE to us sh	and for the process of active	Falka
		neck for the presence of active the	
		<u> </u>	en this issue has been resolved.
	If this relations	ted fault is still active, Proceed	to step 2
	Step 2	Step ID 1134b	SRT
	Data check		
	Lookup the	e technical data of the specific s	system
	Perform th	ne checking data test of the spe	cific component
	Is test pass?		·
	· · · · · · · · · · · · · · · · · · ·	ed to step 3	
		eed to step4	
		·	
	Step 3	Step ID 1134c	SRT
	Repair or replace of	component	
	Repair or r	eplace the component, also ch	eck for electrical connection and
	wiring har		
	Reconnect	the connector	
	ON the ign	ition key	
	Use DAVIE to re-ch	neck for the presence of active t	faults:
	Is DTC faul	t active: Proceed to step 4	
	Is DTC faul	t inactive: Issue resolved. Clear	inactive fault
		St ID 44244	CDT
	Step 4	Step ID 1134d	SRT
		nce in diagnosing this issue or f	•
		spect components, contact the	Engine Support Call Center at
	1-800-477-0251.		
Verification Drive Cycle	-		key to the ON position with the
		w 10 seconds for the system to	<u> </u>
	With the brakes set	, start the engine and allow it to	o run at idle for 2 minutes.
			Post of the
			Back to Index



01130		
Code number	U1136	
Fault code	CAN communication - Message (HRW) rate too low from brake system	
description		
Fault code	3 drive cycle recovery	
information	Readiness group – None	
	Freeze frame type – Generic	
Description of	This and relates to a communication issue and not to a consider communication	
Description of	This code relates to a communication issue and not to a specific component.	
component(s)	This and relation to a communication is an and rette a consider communication.	
Location of	This code relates to a communication issue and not to a specific component.	
component(s)		
Diagnostic	This diagnostic runs continuously when the ignition is on.	
condition		
Set condition of	CAN command message HRW is missing for more than 0.06 seconds.	
fault code		
Reset condition of	This DTC changes to inactive as soon as the error is no longer detected.	
fault code		
Electrical		
diagram(s)		
Technical data	This code relates to a communication issue and not to a specific component.	
Possible causes	Breakdown in communication in the CAN network	
	Open circuit, short circuit to ground, or short circuit to supply in the CAN network wiring	
	Incorrect male terminal in J1939 network that can cause intermittent communication	
Additional	No additional information available.	
information		
Diagnostic Step-	The ignition should always be in the OFF position when connecting an	
by-Step	The ignition should always be in the OFF position when connecting or disconnecting electrical components to reduce the likelihood of damage to the components.	
	<ul> <li>This troubleshooting procedure is based on the assumption that supply power and ground to the PMCI are functioning properly.</li> </ul>	
	<ul> <li>Disconnecting the PMCI connectors during the troubleshooting process will result in multiple errors.</li> </ul>	
	<ul> <li>Specific electrical component information and pin out locations are provided in this procedure as a reference only. Always refer to the technical data sections in Rapido for the most up-to-date changes.</li> </ul>	
	It is necessary to use DAVIE to clear all current trouble codes from the PCI and EAS-3 ECUs, and then run the Quick Check to identify a change in fault status.	



 This DTC can be set as a result of multiple failure modes. For proper fault isolation, complete all troubleshooting steps in the sequence provided.

### **Step 1. Data Bus Connection Checks**

#### Step 1.A Visual inspection, J1939 connectors

#### **Action**

- 2. Set the ignition switch to OFF.
- 3. Locate the J1939 connectors on the OEM engine harness, near the firewall on the driver's side of the engine.
- 4. Visually inspect all J1939 connectors for bent, broken, corroded, or loose pins.
- 5. Inspect the wires for signs of damage (strain) where they leave the connectors.
- 6. Inspect male connector pins to ensure that the correct terminal pin type has been installed.





#### Correct terminal pins:

- Thicker material
- Terminal pin ends are almost flush with the top of the plastic terminal separator

#### Incorrect terminal pins:

- Thinner material
- Terminal pins are recessed in the connector socket

Were there any signs of damage to the connectors or connector pins, connector wires, or were any of the terminal connector pins found to be incorrect?

Yes	No
Correct any issues found. Refer to step 4.A to perform the corresponding repair verification cycles and rechecks.	



	code is still present, go to step 2.A	Go to step 2.A
Step 2.	ABS Connection Checks	
Step 2	. A Visual inspection, ABS connector	
Action		
2.	Set the ignition switch to OFF.	
3.	Locate the ABS connector on the inside service information for the particular ve	of the dashboard (refer to the related OEM ehicle make and model).
4.	Visually inspect the ABS connector for s connector pins.	igns of bent, broken, corroded, or loose
5.	Inspect the J1939 wires (green/yellow they leave the connectors.	wisted pair) for signs of damage (strain) whe
Was th	nere evidence of any of the above?	
Yes		No
perfor	t any issues found. Refer to Step 4.A to m the corresponding repair verification and rechecks.	
	code is still present, go to Step 3.A	Go to step 3.A
If this		GO to step s.r.
Step 3.	Data Bus Harness Checks  . A Visual inspection, J1939 harness wir	·
Step 3. Step 3	. A Visual inspection, J1939 harness wir	·
Step 3. Step 3 Action 1.	. A Visual inspection, J1939 harness wir  Set the ignition switch to OFF.	ring
Step 3. Step 3	Set the ignition switch to OFF.  Visually inspect the J1939 wires (green/harness for any signs of damage to the ignition).	

No

Yes



Correct any issues found. Refer to Step 4.A to perform the corresponding repair verification cycles and rechecks.	
If this code is still present, contact the PACCAR	Contact the PACCAR Engine Support Center
Engine Support Center for further assistance.	for further assistance.

#### Step 4. Repair Verification

### **Step 4.A Repair verification cycles**

Perform these repair verification cycles following any corrective actions taken, to enable related OBD monitors to reach a readiness state associated with the trouble code or system being investigated.



Before beginning these repair verification cycles, use the DAVIE Diagnostics, Quick Check function to clear all current DTCs from the PCI and EAS-3 ECUs.

#### **Action**

2. Power-up/Electrical

With the brakes set, turn the key to the ON position with the engine off, and allow 10 seconds for the system to initialize and run diagnostics.

seconds for the system to middle and fair diagnostics.		
Were the identified repair verification cycles able to be completed?		
Yes	No	
	Investigate and correct any issues preventing these repair verification cycles from being completed, then re-run.  For additional assistance, contact the PACCAR Engine Support Center.	
Go to step 4.B		

Step 4.B DAVIE Diagnostics, Quick Check		
Action		
<ol> <li>Use DAVIE Diagnostics to perform a Quick Check for current trouble codes to determine whether the actions taken have cleared this code.</li> </ol>		
Has U1136 been cleared?		
Yes	No	
Problem resolved. No further actions.	Continue with the next step in this troubleshooting procedure. If all steps have been completed and this trouble code is still present, contact the PACCAR Engine Support Center for further assistance.	

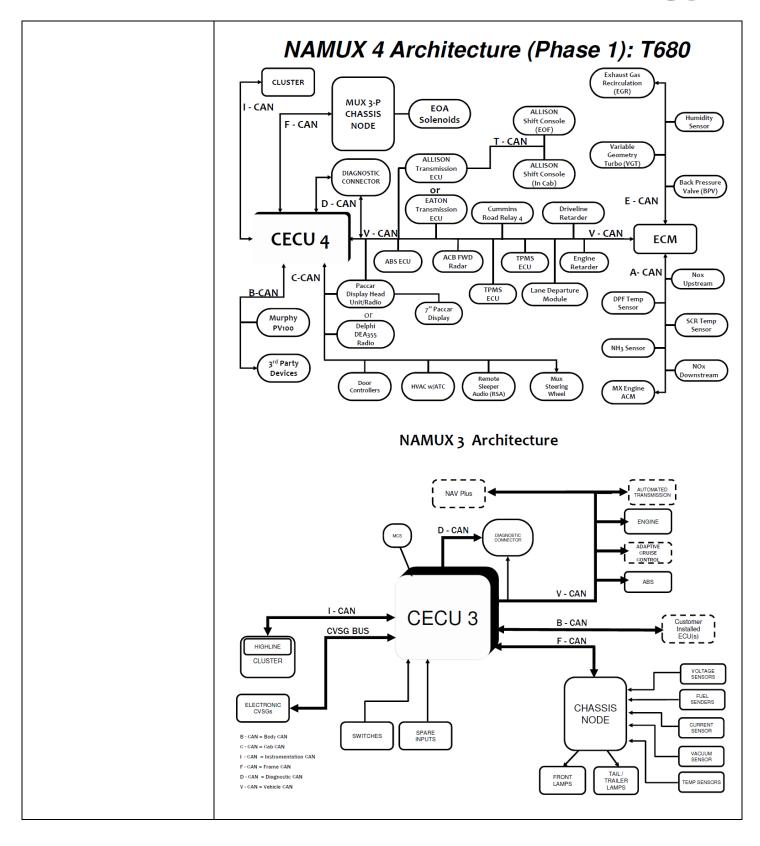


· <b>-</b>	For further assistance in diagnosing this issue or for confirmation prior to the replacement of suspect components, contact the PACCAR Engine Support Call Center.
	Back to Inde

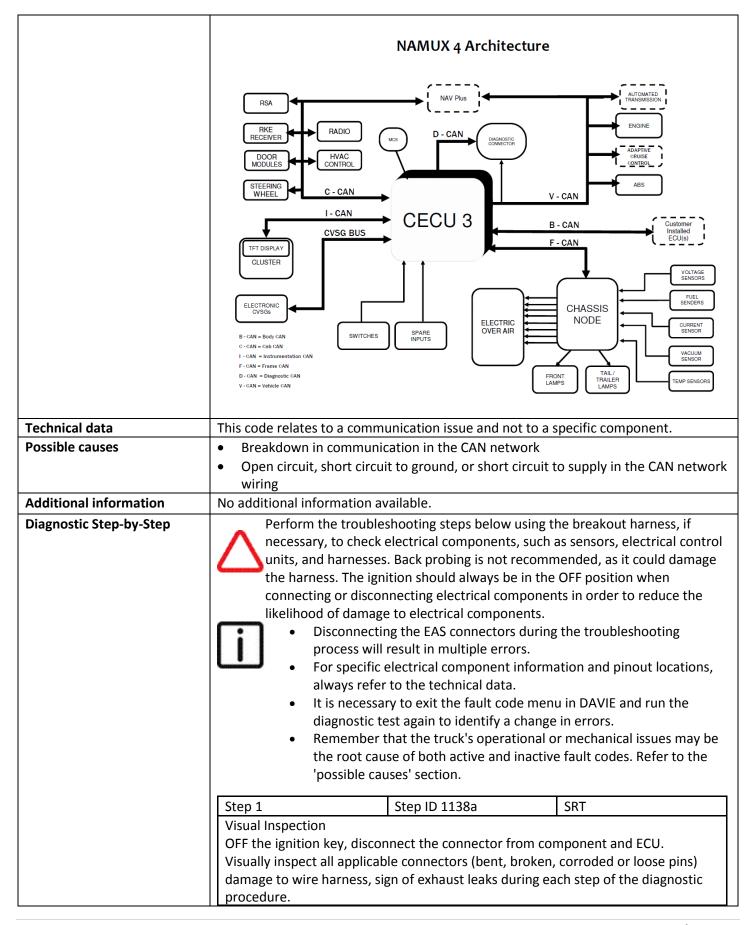


Code number	U1138		
Fault code description	CAN communication - Message (TSC_AE) rate too low from brake system		
Fault code information	3 drive cycle recovery		
	Readiness group – None		
	Freeze frame type – Generic		
Description of component(s)	This code relates to a communication issue and not to a specific component.		
Location of component(s)	This code relates to a communication issue and not to a specific component.		
Diagnostic condition	This diagnostic runs continuously when the ignition is on.		
Set condition of fault code			
Reset condition of fault code	This DTC changes to inactive as soon as the error is no longer detected.		
Electrical diagram(s)			
	NAMUX 3 Architecture: 2010 B-Cab  FIREWALL  STEERING WHEEL  DIAGNOSTIC CONNECTOR PACCAR DISplay  Vehicle CAN  CVSG BUS  SPARE INPUTS  FIREWALL  FRONT TAIL TAIL TAIL TAIL TEMP SENSORS  FRONT TRAILER LAMPS  FRONT TRAILER LAMPS  FRONT TRAILER LAMPS  FRONT TRAILER LAMPS  FREWALL  Aftertreatment CAN  Aftertreatment CAN  LENGINE ENGINE  PACCAR DISPLAY  VOITAGE SENSORS  FREWALL  FRONT TAIL TEMP SENSORS		











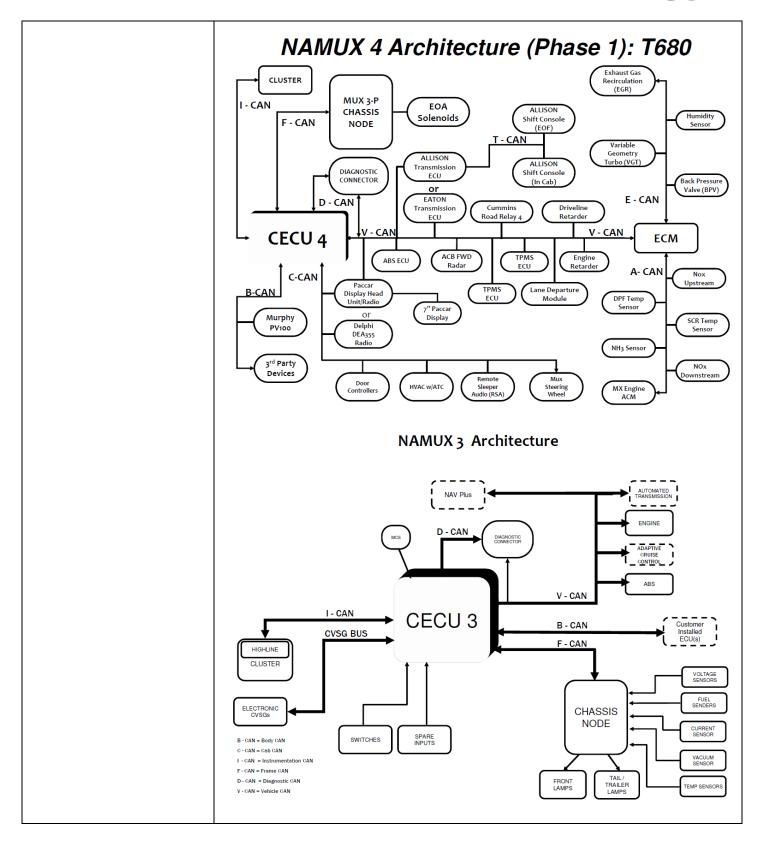
	Was there evidence of any of the above?			
	No: Proceed	to step 2.		
	Yes: Make th	ne appropriate repairs or co	mponent replacements.	
		ck for the presence of active		
	If this relate	d fault is no longer active, th	nen this issue has been resolved.	
		d fault is still active, Proceed		
	Step 2 Step ID 1138b SRT			
	Data check			
	Lookup the t	echnical data of the specific	system	
	Perform the	checking data test of the sp	ecific component	
	Is test pass?			
	No: Proceed	to step 3		
	Yes : Procee	d to step4		
	Step 3	Step ID 1138c	SRT	
	Repair or replace co	·	T G	
	<ul> <li>Repair or replace tomponent, also check for electrical connection and wiring harness .</li> <li>Reconnect the connector</li> </ul>			
	ON the ignit			
	Use DAVIE to re-check for the presence of active faults:			
	Is DTC fault active: Proceed to step 4			
		nactive : Issue resolved. Cle	ar inactive fault.	
	Step 4	Step ID 1138d	SRT	
	For further assistance in diagnosing this issue or for confirmation prior to the			
	replacement of suspect components, contact the Engine Support Call Center at			
	1-800-477-0251.	•		
Verification Drive Cycle	To validate the repair	with the brakes set, turn th	ne key to the ON position with the	
	engine off, and allow 10 seconds for the system to initialize and run diagnostics.			
	With the brakes set, start the engine and allow it to run at idle for 2 minutes.			
			Back to Index	



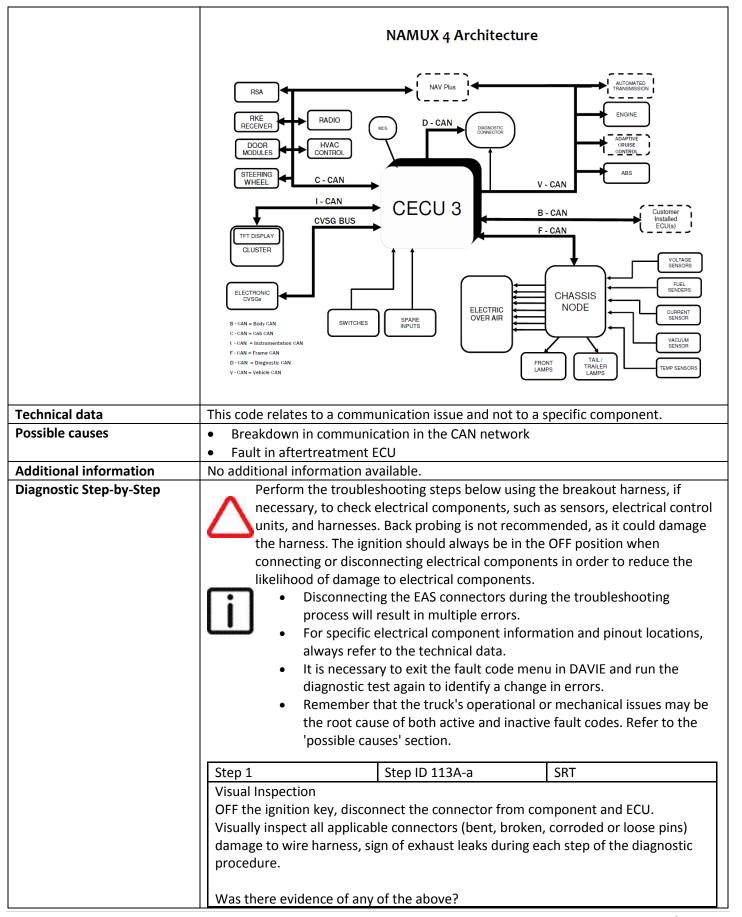
# **U113A**

Code number	U113A		
Fault code description	CAN communication - Message (AT1HI) rate too high from emission system		
Fault code information	1 trip MIL		
	3 drive cycle recovery		
	Readiness group – None		
	Freeze frame type – Generic		
Description of component(s)	This code relates to a communication issue and not to a specific component.		
Location of component(s)	This code relates to a communication issue and not to a specific component.		
Diagnostic condition	This diagnostic runs continuously when the ignition is on.		
Set condition of fault code			
Reset condition of fault code	This DTC changes to inactive as soon as the error is no longer detected.		
Electrical diagram(s)			
	NAMUX 3 Architecture: 2010 B-Cab  FIREWALL Aftertreatment CAN  FIREWALL AFTERING WHEEL  DIAGNOSTIC CONNECTOR  PACCAR DISPISY  Vehicle CAN  Vehicle CAN  Vehicle CAN  FIREWALL  Aftertreatment CAN  Vott Actuator  Actuator  Vott Actuator  Vott Actuator  Vott Actuator  SENSORS  FUEL SENSORS  FUEL SENSORS  VACIUM SENSORS  VACIUM SENSORS  FRESSURE SENSORS  SPARE INPUTS  FRONT TAILL  TEMP SENSORS  TEMP TEMP SENSORS		











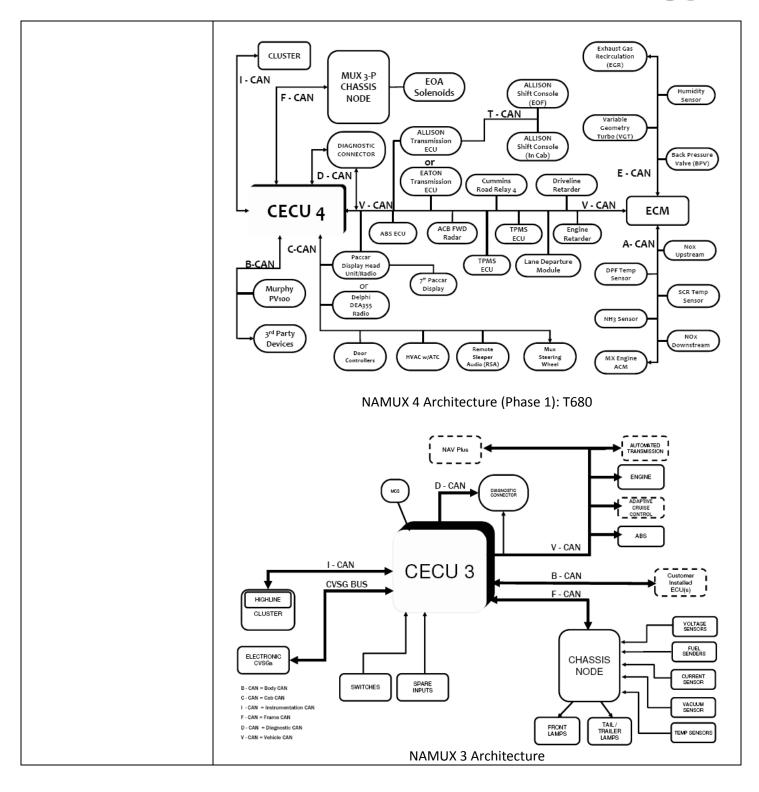
	<ul><li>Yes: Make</li><li>Use DAVIE to re-ch</li><li>If this relat</li></ul>	ed to step 2. the appropriate repairs or com neck for the presence of active f ted fault is no longer active, the ted fault is still active, Proceed t	aults. n this issue has been resolved.
	Step 2 Data check	Step ID 113A-b	SRT
	<ul><li>Perform the ls test pass?</li><li>No: Proceed</li></ul>	e technical data of the specific some checking data test of the special to step 3 seed to step4	•
	Step 3	Step ID 113A-c	SRT
	wiring hari Reconnect ON the ign	replace the component, also che ness . the connector lition key	eck for electrical connection and
	Is DTC faul	neck for the presence of active f t active: Proceed to step 4 t inactive : Issue resolved. Clear	
		Step ID 113A-d nce in diagnosing this issue or for spect components, contact the	5
Verification Drive Cycle	To validate the repair, with the brakes set, turn the key to the ON position with the engine off, and allow 10 seconds for the system to initialize and run diagnostics.  With the brakes set, start the engine and allow it to run at idle for 2 minutes.		
			Back to Index



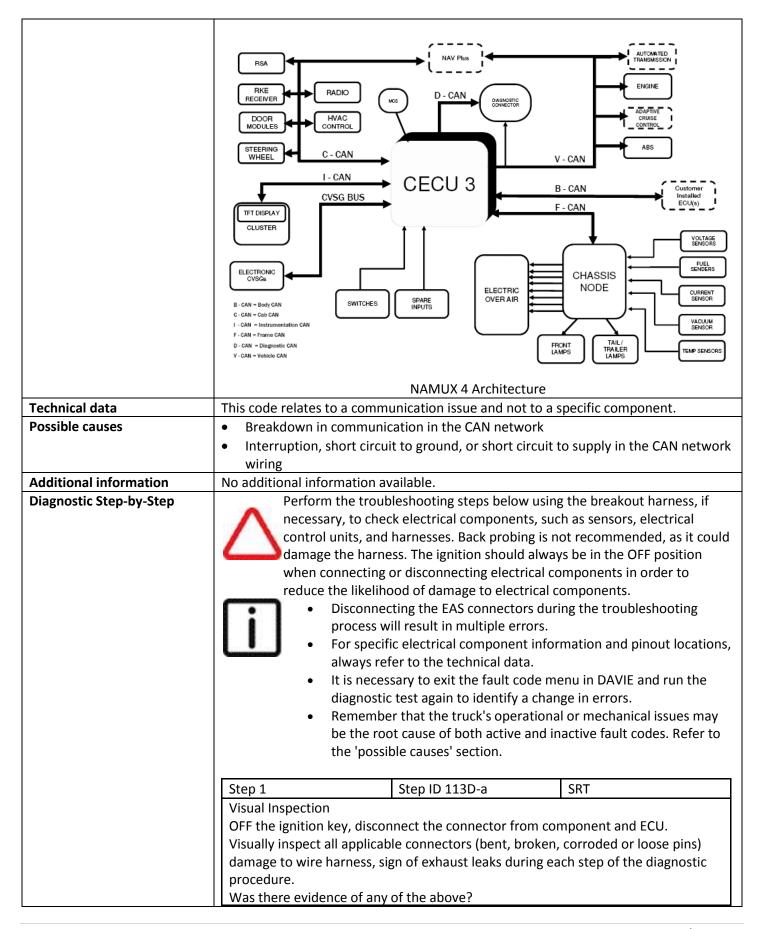
## U113D

Code number	U113D
Fault code description	CAN communication - Message (A1SCRDSI2) rate too low
Fault code information	1 trip MIL
	3 drive cycle recovery
	Readiness group – None
	Freeze frame type – Generic
Description of component(s)	This code relates to a communication issue and not to a specific component.
Location of component(s)	This code relates to a communication issue and not to a specific component.
Diagnostic condition	This diagnostic runs continuously when the ignition is on.
Set condition of fault code	CAN command message A1SCRDSI2 is missing for more than 1.5 seconds.
Reset condition of fault code	This DTC changes to inactive as soon as the error is no longer detected.
Electrical diagram(s)	
	Diagnostic CAN TO AUTO TO THE PROPERTY OF T
	Cluster  Cab CAN  CECU 3  Connector  Connect









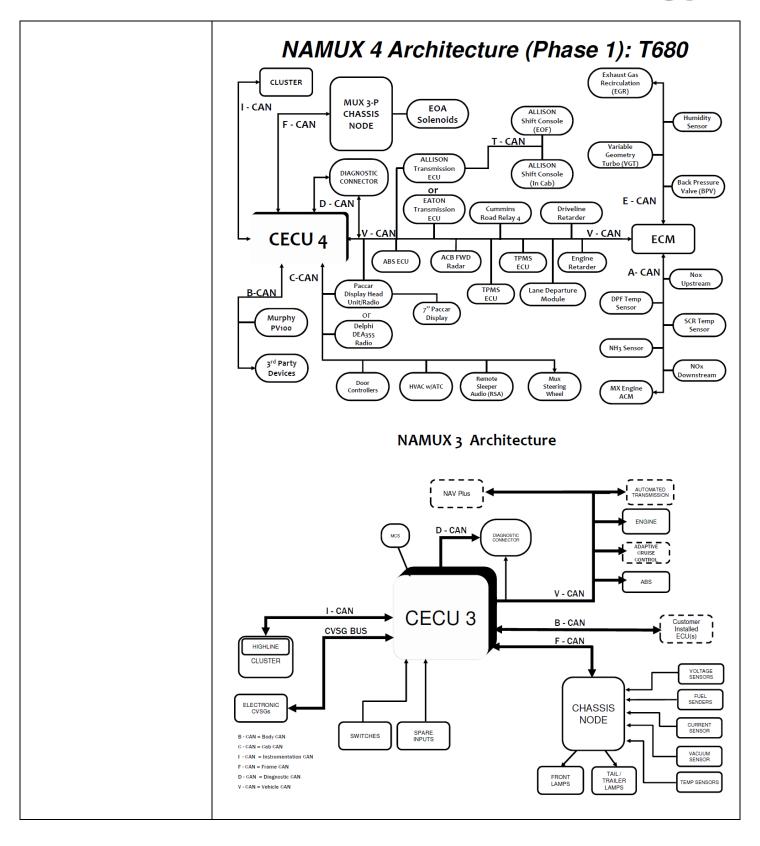


	No: Proceed to	stan 2	
	<ul> <li>No: Proceed to step 2.</li> <li>Yes: Make the appropriate repairs or component replacements.</li> </ul>		
			•
		for the presence of active f	
			n this issue has been resolved.
	If this related fa	ault is still active, Proceed t	to step 2
	Step 2	Step ID 113D-b	SRT
	Data check	· ·	
		hnical data of the specific s	system
		ecking data test of the spe	•
	Is test pass?	centing data test of the spe	eme component
	No: Proceed to	ctan 3	
		•	
	Yes : Proceed to	o step4	
	Cton 2	Chan ID 112D a	CDT
	Step 3	Step ID 113D-c	SRT
	Repair or replace comp		
	Repair or replace the component, also check for electrical connection and		
	wiring harness.		
	Reconnect the connector		
	ON the ignition key		
		for the presence of active f	aults:
	Is DTC fault active: Proceed to step 4		
	Is DTC fault inactive: Issue resolved. Clear inactive fault		
	Step 4	Step ID 113D-d	SRT
	For further assistance in diagnosing this issue or for confirmation prior to the		
			Engine Support Call Center at
	1-800-477-0251.	,,	
Verification Drive Cycle	To validate the repair, wi	ith the brakes set. turn the	key to the ON position with the
			initialize and run diagnostics.
		t the engine and allow it to	_
	Transitio States set, stat	t and engine and anow it to	
			Back to Index
			Duck to muck

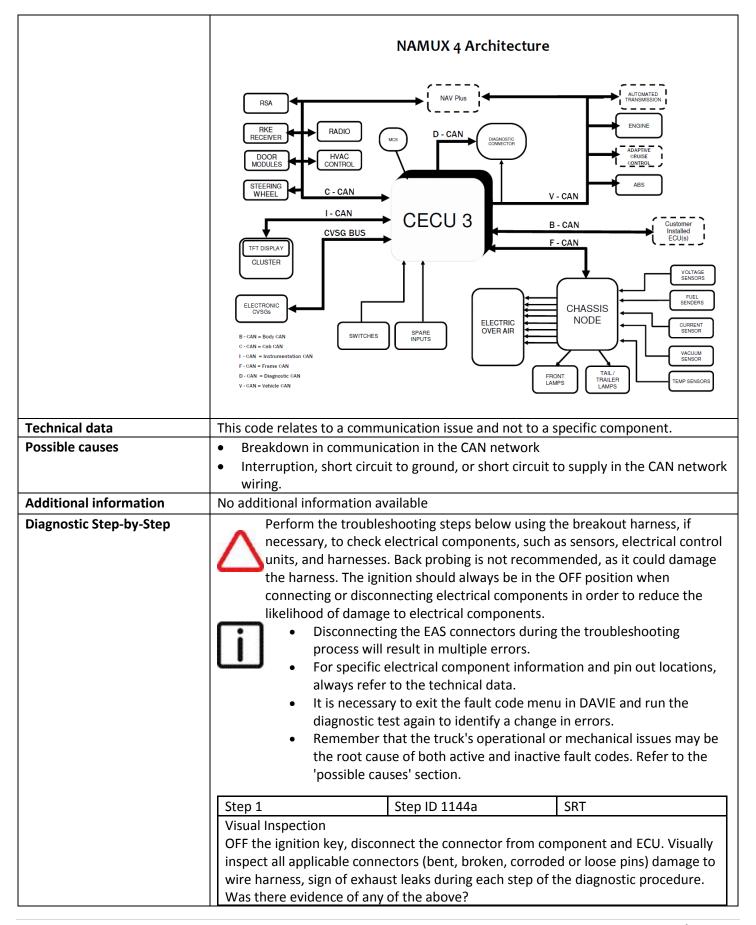


Code number	U1144		
Fault code description	CAN communication - Message (TD) rate too low from tachograph		
Fault code information	1 trip MIL		
	3 drive cycle recovery		
	Readiness group – None		
	Freeze frame type – Generic		
Description of component(s)	This code relates to a communication issue and not to a specific component.		
Location of component(s)	This code relates to a communication issue and not to a specific component.		
Diagnostic condition	This diagnostic runs continuously when the ignition is on.		
Set condition of fault code			
Reset condition of fault code	This DTC changes to inactive as soon as the error is no longer detected.		
Electrical diagram(s)			
	NAMUX 3 Architecture: 2010 B-Cab  FIREWALL  STEERING WHEEL  MCS  Diagnostic CAN  INSTRUMENT  COUNTED  DIAGNOSTIC  CONNECTOR  PACCAR Display  Vehicle CAN  Vehicle CAN  CVSG BUS  Frame CAN  FRONT  TAIL  TAIL  TAIL  TRAILER  LAMPS  LAMPS  LAMPS  RESURCES  SENSORS  TEMP  SENSORS  TEMP  SENSORS		









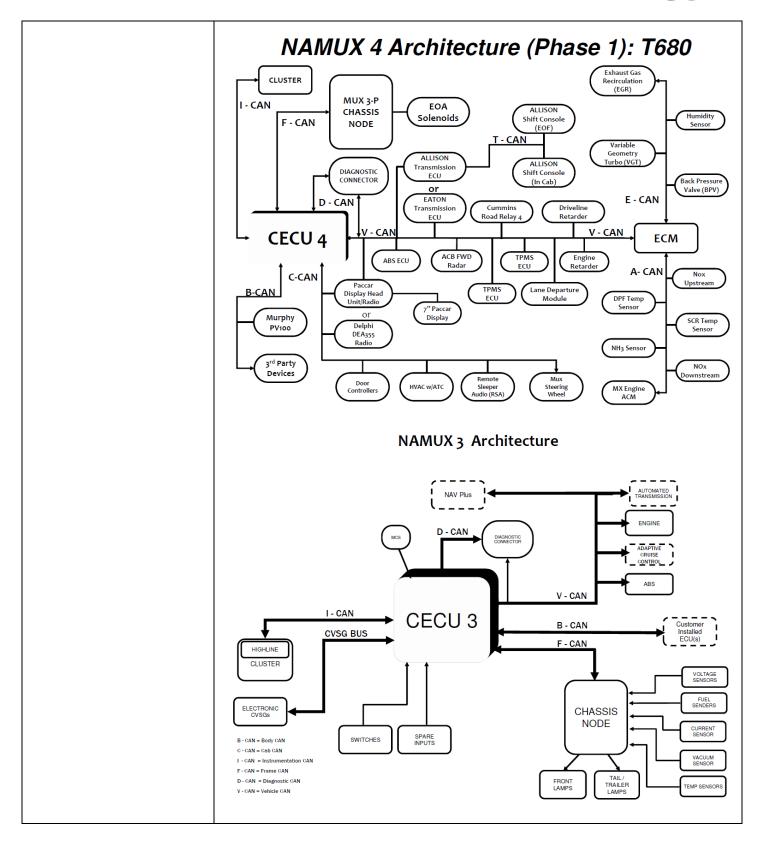


	<ul> <li>No: Proceed to step 2.</li> <li>Yes: Make the appropriate repairs or component replacements.</li> <li>Use DAVIE to re-check for the presence of active faults.</li> <li>If this related fault is no longer active, then this issue has been resolved.</li> </ul>			
	If this related fault is still active, Proceed to step 2			
	Step 2	Step ID 1144b	SRT	
	Data check			
		<ul> <li>Lookup the technical data of the specific system</li> <li>Perform the checking data test of the specific component</li> </ul>		
	Is test pass?  No: Proceed to step 3  Yes: Proceed to step4			
	Step 3 Step ID 1144c SRT			
	Repair or replace component  Repair or replace the component, also check for electrical connection and wiring harness.  Reconnect the connector			
	<ul> <li>ON the ignition key</li> <li>Use DAVIE to re-check for the presence of active faults:</li> <li>Is DTC fault active: Proceed to step 4</li> </ul>			
	Is DTC fault inactive: Issue resolved. Clear inactive fault.			
	Step 4 For further assistar	Step ID 1144d ice in diagnosing this issue or f	SRT or confirmation prior to the	
	replacement of sus 800-477-0251.	pect components, contact the	Engine Support Call Center at 1-	
Verification Drive Cycle	To verify the repair:  With the brakes set, turn the key to the ON position with the engine off, and allow 10 seconds for the system to initialize and run diagnostics  With the brakes set, start the engine and allow it to run at idle for 2 minutes			
			Back to Index	

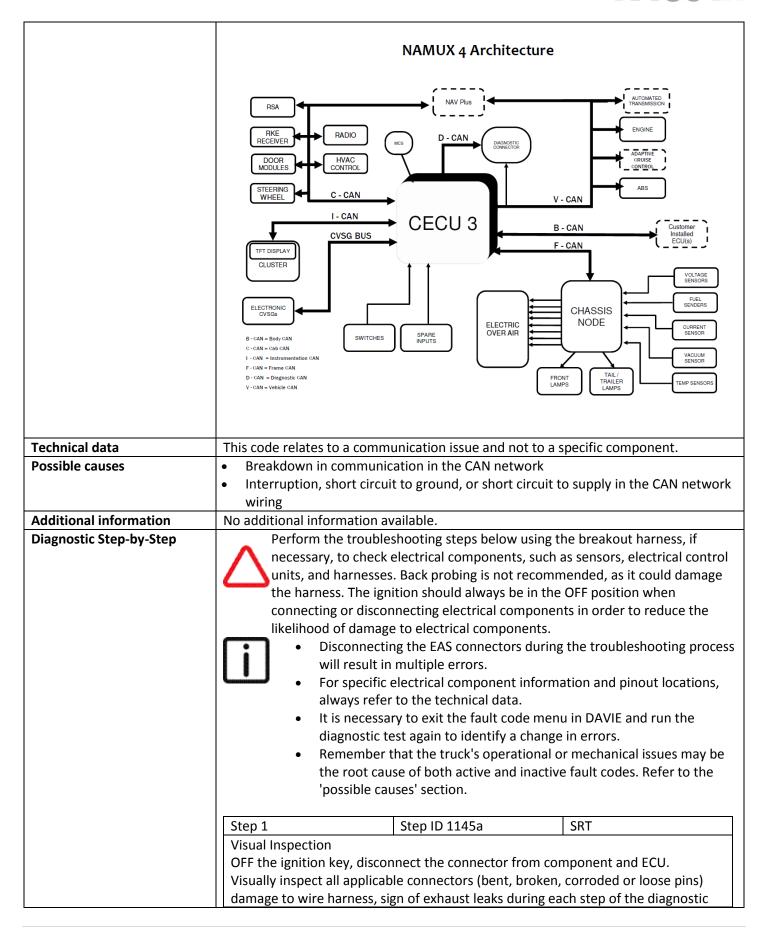


Code number	U1145		
Fault code description	CAN communication - Message (A1SCRRSI) rate too low		
Fault code information	1 trip MIL		
	3 drive cycle recovery		
	Readiness group – None		
	Freeze frame type – Generic		
Description of component(s)	This code relates to a communication issue and not to a specific component.		
Location of component(s)	This code relates to a communication issue and not to a specific component.		
Diagnostic condition	This diagnostic runs continuously when the ignition is on.		
Set condition of fault code	CAN command message A1SCRRSI is missing for more than 3 seconds.		
Reset condition of fault code	This DTC changes to inactive as soon as the error is no longer detected.		
Electrical diagram(s)			
	NAMUX 3 Architecture: 2010 B-Cab  FIREWALL Aftertreatment CAN  ABS  DIAGNOSTIC CONNECTOR PACCAR DISPISY  Vehicle CAN  Vehicle CAN  Vehicle CAN  FIREWALL  Aftertreatment CAN  LONG CONNECTOR  Vehicle CAN  Vehicle CAN  FIREWALL  Aftertreatment CAN  Vehicle CAN  Vehicle CAN  FIREWALL  CLUSTER  VOLTAGE SENSORS  FUEL SENSORS  FUEL SENSORS  VACUUM SENSOR  FORT TAILL TEMP SENSORS  FIREWALL  FRONT TAILL TEMP SENSORS  TEMP SENSO		









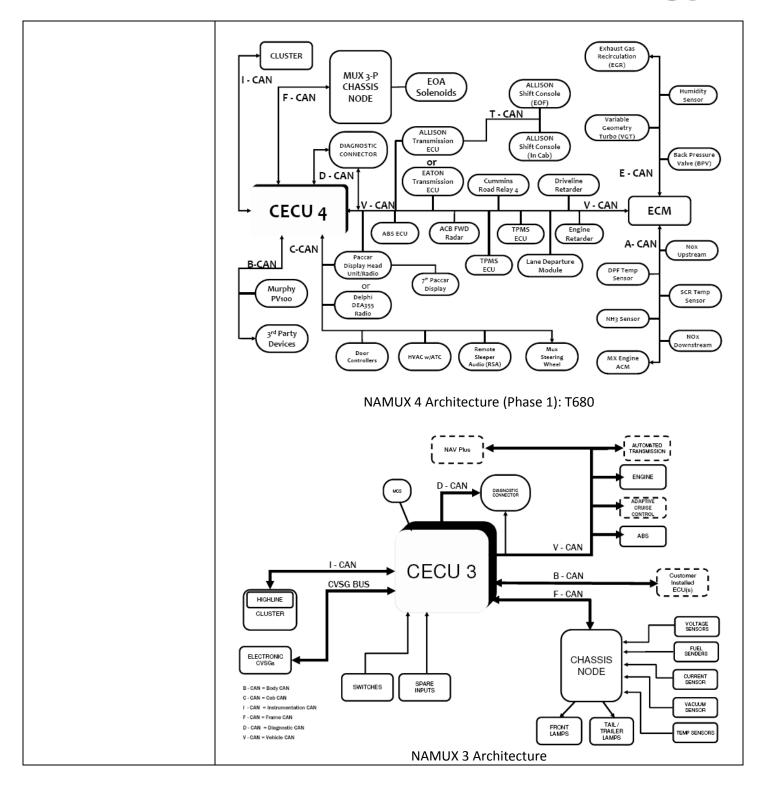


	procedure.  Was there evidence of any of the above?  No: Proceed to step 2.  Yes: Make the appropriate repairs or component replacements.  Use DAVIE to re-check for the presence of active faults.  If this related fault is no longer active, then this issue has been resolved.  If this related fault is still active, Proceed to step 2	
	Step 2 Step ID 1145b SRT  Data check  • Lookup the technical data of the specific system  • Perform the checking data test of the specific component  Is test pass?  • No: Proceed to step 3  • Yes: Proceed to step 4	
	Step 3 Step ID 1145c SRT  Repair or replace component	
	<ul> <li>Repair or replace the component, also check for electrical connection and wiring harness.</li> <li>Reconnect the connector</li> <li>ON the ignition key</li> <li>Use DAVIE to re-check for the presence of active faults:</li> <li>Is DTC fault active: Proceed to step 4</li> <li>Is DTC fault inactive: Issue resolved. Clear inactive fault</li> </ul>	t
	Step 4 Step ID 1145d SRT  For further assistance in diagnosing this issue or for confirmation prior to the replacement of suspect components, contact the Engine Support Call Center at 1-800-477-0251.	
Verification Drive Cycle	To validate the repair, with the brakes set, turn the key to the ON position with the engine off, and allow 10 seconds for the system to initialize and run diagnostics.  With the brakes set, start the engine and allow it to run at idle for 2 minutes.	
	Back to In	<u>ıdex</u>

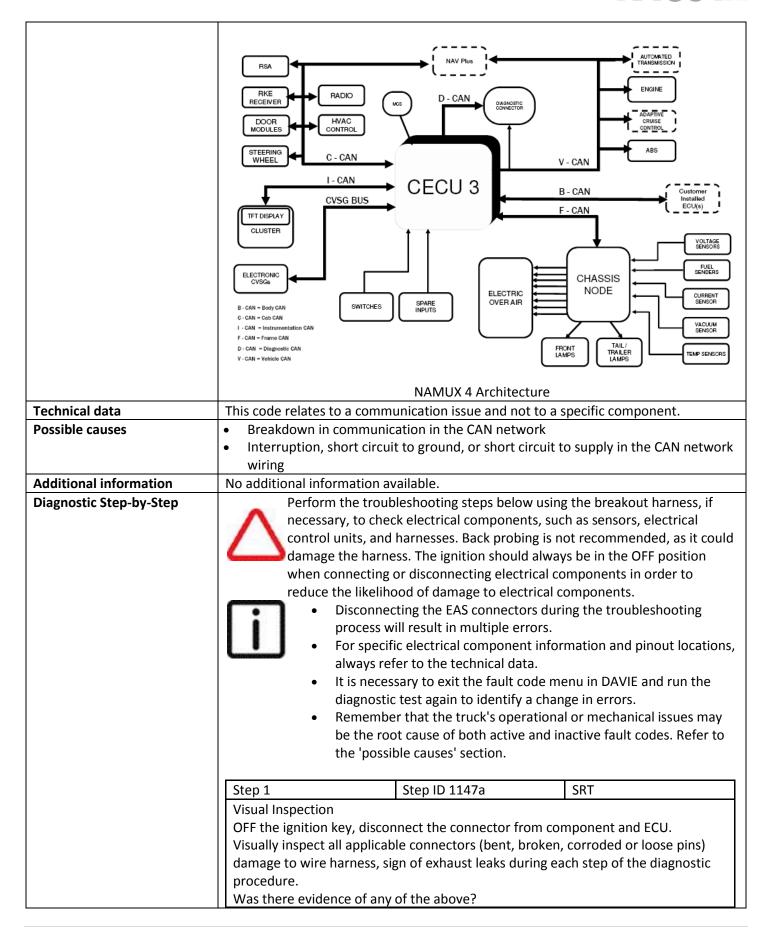


Code number	U1147		
Fault code description	CAN communication - Message (A1SCRRSI) rate too low from emission system		
Fault code information	1 trip MIL		
	3 drive cycle recovery		
	Readiness group – None		
	Freeze frame type – Generic		
Description of component(s)	This code relates to a communication issue and not to a specific component.		
Location of component(s)	This code relates to a communication issue and not to a specific component.		
Diagnostic condition	This diagnostic runs continuously when the ignition is on.		
Set condition of fault code	CAN command message A1SCRRSI is missing for more than 1.5 seconds.		
Reset condition of fault code	This DTC changes to inactive as soon as the error is no longer detected.		
Electrical diagram(s)			
	Cluster  Cab CAN  Diagnostic CAN  ABS  Conuse  Conuse		









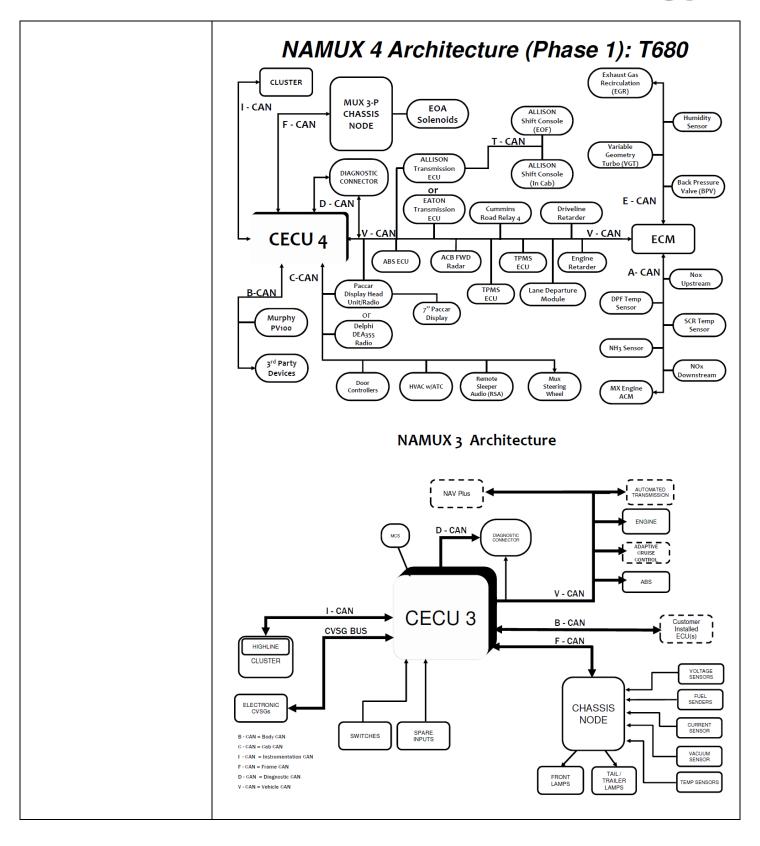


	No: Proceed to step 2.			
	Yes: Make the appropriate repairs or component replacements.			
	Use DAVIE to re-check for the presence of active faults.			
	<ul> <li>If this relate</li> </ul>	d fault is no longer active, the	en this issue has been resolved.	
	If this related fault is still active, Proceed to step 2		to step 2	
	Step 2	Step ID 1147b	SRT	
	Data check			
	Lookup the technical data of the specific system			
	Perform the	checking data test of the spe	ecific component	
	Is test pass?	Is test pass?		
	No: Proceed	to step 3		
	Yes : Procee	d to step4		
	Step 3	Step ID 1147c	SRT	
	Repair or replace component			
	Repair or replace the component, also check for electrical connection and			
	wiring harness.			
	Reconnect the connector			
	ON the ignition key			
		ck for the presence of active	faults:	
		active: Proceed to step 4		
	Is DTC fault inactive: Issue resolved. Clear inactive fault		inactive fault	
		1		
	Step 4	Step ID 1147d	SRT	
	For further assistance in diagnosing this issue or for confirmation prior to the			
	replacement of suspect components, contact the Engine Support Call Center at			
	1-800-477-0251.			
Verification Drive Cycle	-		e key to the ON position with the	
	_		initialize and run diagnostics.	
	With the brakes set, s	tart the engine and allow it t	o run at idle for 2 minutes.	
			Dealtha Indon	
			Back to Index	

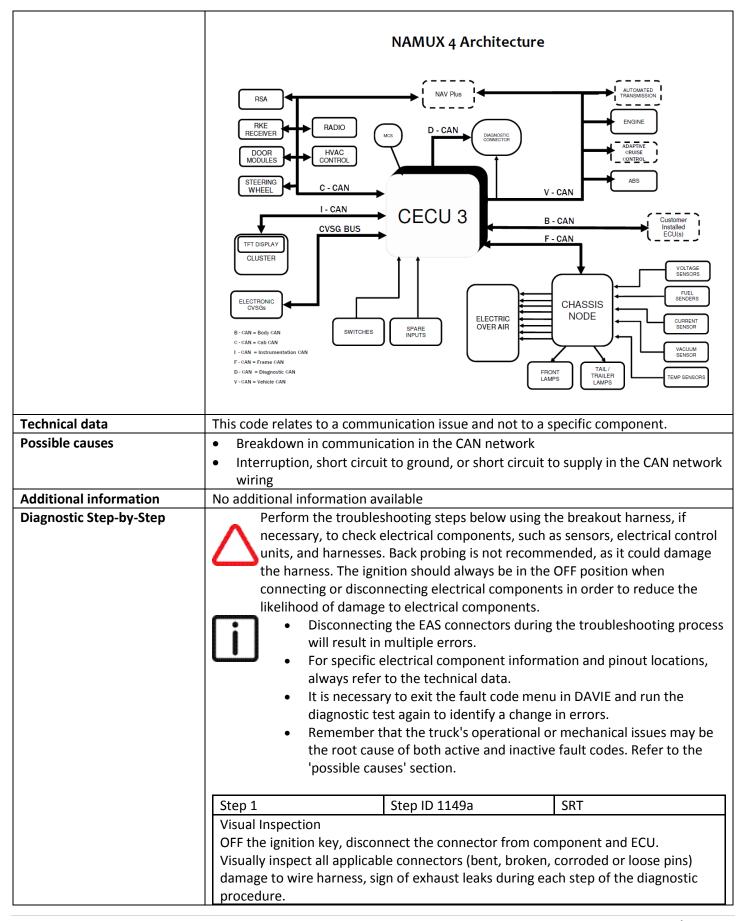


	14440	
Code number	U1149	
Fault code description	CAN communication - Message (DCUST1) rate too low from emission system	
Fault code information	3 drive cycle recovery	
	Readiness group – None	
	Freeze frame type – Generic	
Description of component(s)	This code relates to a communication issue and not to a specific component.	
Location of component(s)	This code relates to a communication issue and not to a specific component.	
Diagnostic condition	This diagnostic runs continuously when the ignition is on.	
Set condition of fault code		
Reset condition of fault code	This DTC changes to inactive as soon as the error is no longer detected.	
Electrical diagram(s)		
	Diagnostic CAN  STEERING WHEEL  MCS  DIAGNOSTIC CONNECTOR  PACCAR DISPLAY  Frame CAN  Vehicle CAN  CURRENT SENSORS  SPARE INPUTS  FIREWALL  Aftertreatment CAN  ENGINE  ENGINE  ABS  VGT Actuator  After-treatment DCU  VOLTAGE SENSORS  FUEL SENSORS  VACUUM SENSORS  FRONT TAIL TEMP SENSORS  FRONT TAIL TEMP SENSORS	











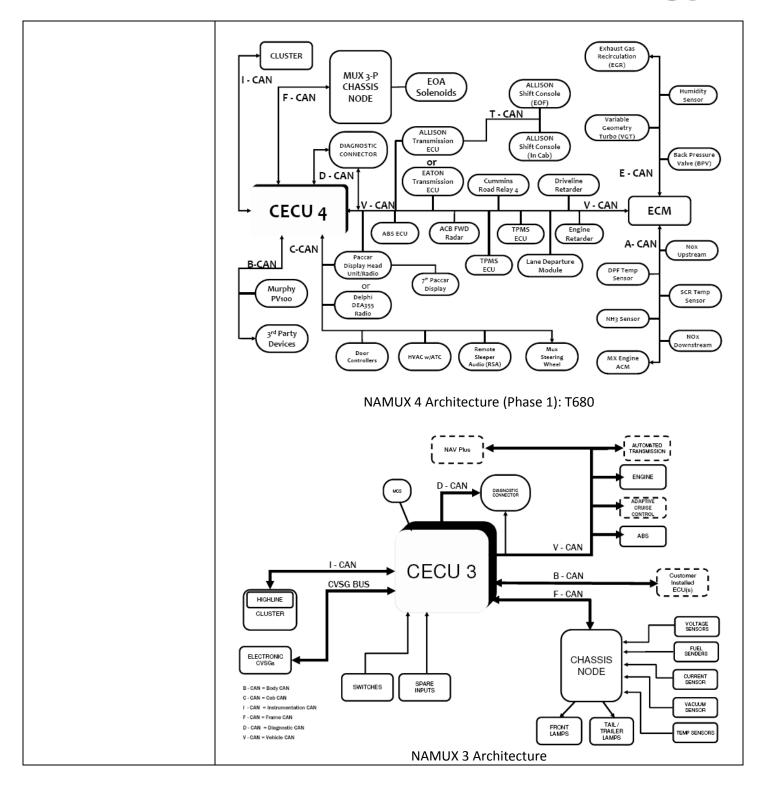
	18/		Т	
	Was there evidence of any of the above?			
		eed to step 2.		
		real mane and appropriate repairs at a simple representation		
		theck for the presence of active		
	If this relationships	ated fault is no longer active, th	en this issue has been resolved.	
	<ul> <li>f this rela</li> </ul>	ted fault is still active, Proceed	to step 2	
	Step 2	Step ID 1149b	SRT	
	Data check			
	<ul> <li>Lookup th</li> </ul>	ne technical data of the specific	system	
	Perform t	the checking data test of the sp	ecific component	
	Is test pass?			
	No: Proce	eed to step 3		
	Yes : Proc	Yes : Proceed to step4		
	Step 3	Step ID 1149c	SRT	
	Repair or replace	component		
	Repair or replace the component, also check for electrical connection and			
	wiring harness .  • Reconnect the connector			
	ON the ig	nition key		
	Use DAVIE to re-c	check for the presence of active	faults:	
	Is DTC fault active: Proceed to step 4			
	Is DTC fac	Is DTC fault inactive : Issue resolved. Clear inactive fault		
	Step 4	Step ID 1149d	SRT	
	For further assistance in diagnosing this issue or for confirmation prior to the			
		uspect components, contact the	•	
	1-800-477-0251.			
Varification Drive Cycle		air with the brakes set turn th	a kay to the ON position with the	
Verification Drive Cycle	·	ow 10 seconds for the system to	e key to the ON position with the	
	with the brakes se	t, start the engine and allow it t	to run at luie for 2 minutes.	
			Back to Index	



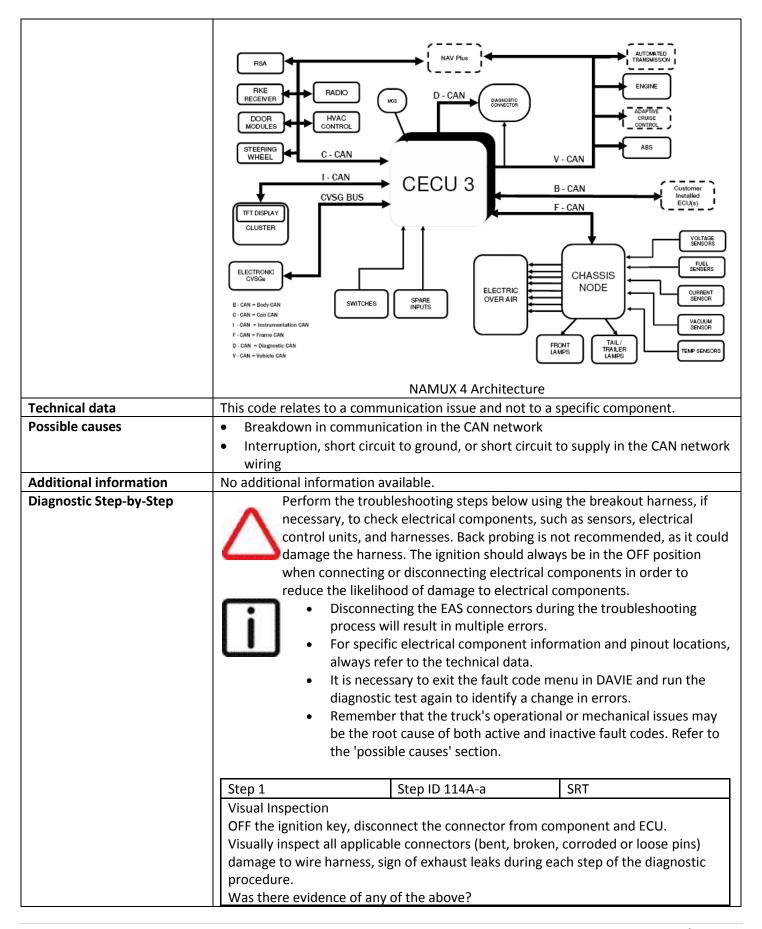
# **U114A**

Code number	U114A		
Fault code description	CAN communication - Message (A1SCREGT) rate too low from emission system		
Fault code information	1 trip MIL		
	3 drive cycle recovery		
	Readiness group – None		
	Freeze frame type – Generic		
Description of component(s)	This code relates to a communication issue and not to a specific component.		
Location of component(s)	This code relates to a communication issue and not to a specific component.		
Diagnostic condition	This diagnostic runs continuously when the ignition is on.		
Set condition of fault code	CAN command message A1SCREGT is missing for more than 1.5 seconds.		
Reset condition of fault code	This DTC changes to inactive as soon as the error is no longer detected.		
Electrical diagram(s)			
	Cluster  Cab CAN  Diagnostic CAN  ABS  Diagnostic CAN  Diagnostic CAN  Diagnostic CAN  Diagnostic CAN  Diagnostic CAN  ABS  Counse  Co		











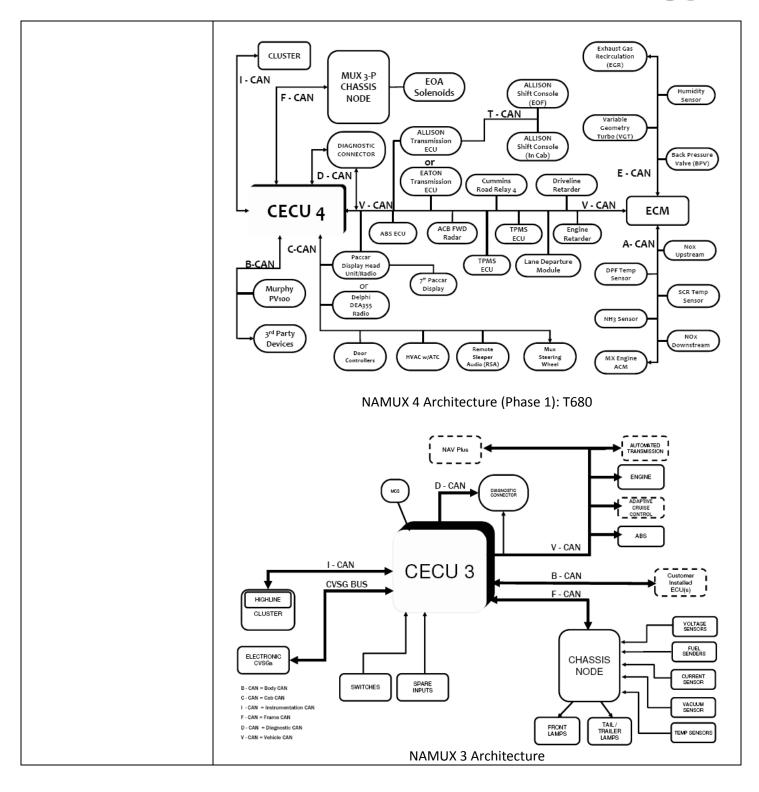
	Use DAVIE to re-ch	d to step 2.  the appropriate repairs or compect for the presence of active for the presence of active, the ed fault is still active, Proceed to	aults. n this issue has been resolved.	
	Step 2	Step ID 114A-b	SRT	
	Data check	•	•	
	Lookup the	technical data of the specific s	ystem	
	Perform th	e checking data test of the spec	cific component	
	Is test pass?			
	No: Procee	•		
	Yes : Proce	Yes : Proceed to step4		
		1		
	Step 3	Step ID 114A-c	SRT	
	Repair or replace component  Repair or replace the component, also check for electrical connection and wiring harness.  Reconnect the connector  ON the ignition key			
		eck for the presence of active f	aults:	
		active: Proceed to step 4	in a said on family	
	Is DTC fault	inactive: Issue resolved. Clear	inactive fault	
	Step 4	Step ID 114A-d	SRT	
	For further assistance in diagnosing this issue or for confirmation prior to the			
		pect components, contact the	·	
Varification Drive Cycle		r with the brakes set turn the	kov to the ON position with the	
Verification Drive Cycle	engine off, and allow	r, with the brakes set, turn the r 10 seconds for the system to i start the engine and allow it to	_	
			Back to Index	



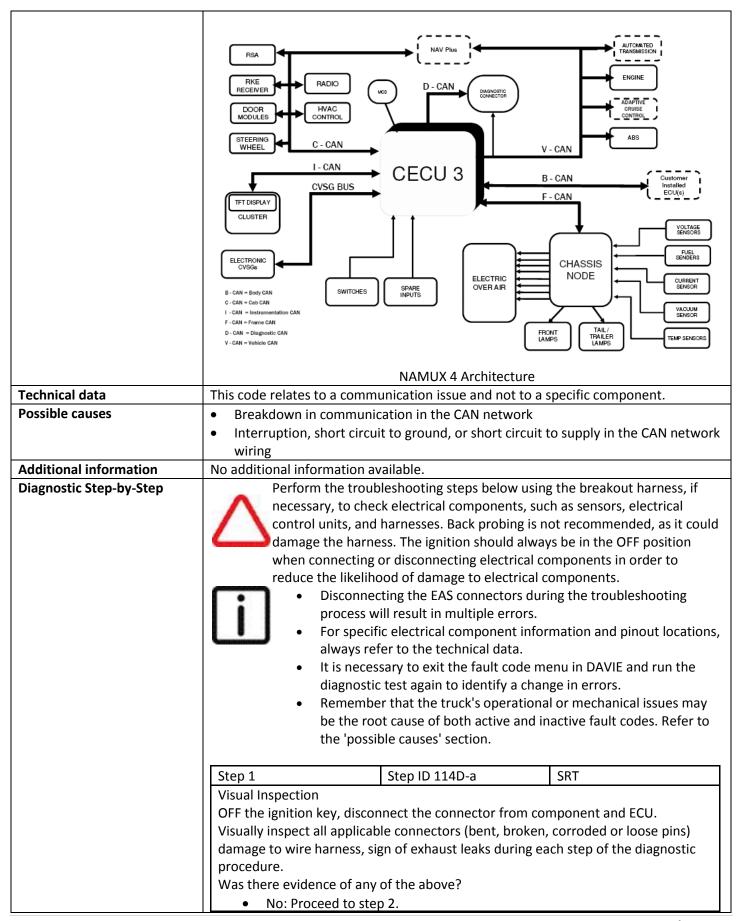
# U114D

Code number	U114D		
Fault code description	CAN communication - Message (A1SCRDSI1) rate too low from emission system		
Fault code information	1 trip MIL		
	3 drive cycle recovery		
	Readiness group – None		
	Freeze frame type – Generic		
Description of component(s)	This code relates to a communication issue and not to a specific component.		
Location of component(s)	This code relates to a communication issue and not to a specific component.		
Diagnostic condition	This diagnostic runs continuously when the ignition is on.		
Set condition of fault code	CAN command message A1SCRDSI1 is missing for more than 1.5 seconds.		
Reset condition of fault code	This DTC changes to inactive as soon as the error is no longer detected.		
Electrical diagram(s)			
	Cluster  Cab CAN  CECU 3  CVSG BUS  Frame CAN  FRONT  LAMTO  INAMUS A Architecture: 2010 B-Cab  NAMUX 3 Architecture: 2010 B-Cab		









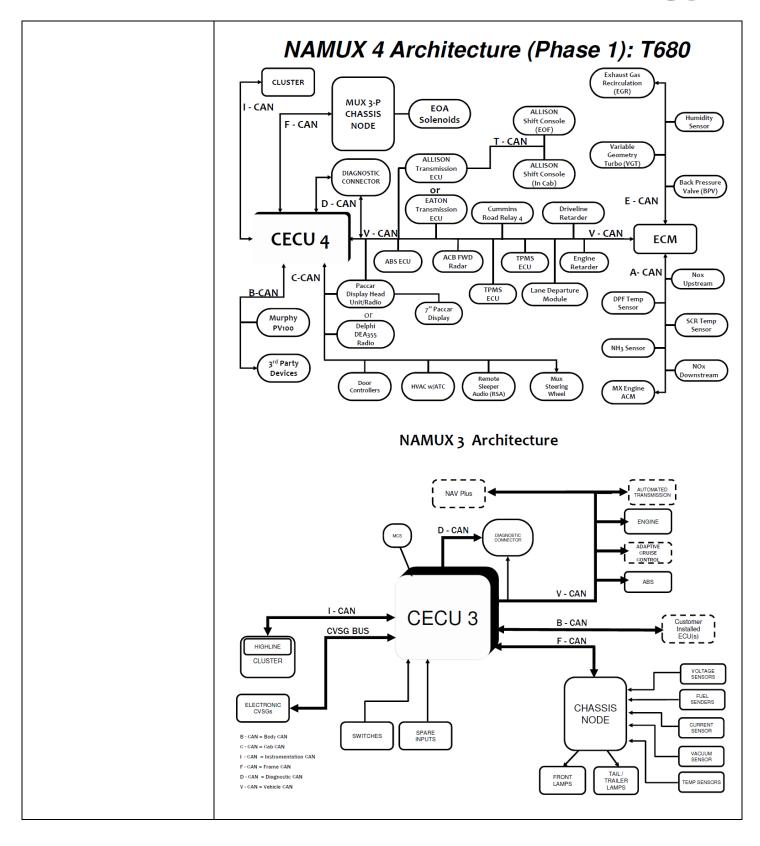


	Use DAVIE to re-cl	the appropriate repairs or complete the appropriate repairs or complete for the presence of active factive, the ted fault is still active, Proceed to	aults. n this issue has been resolved.	
	Step 2	Step ID 114D-b	SRT	
	Data check			
	Lookup the technical data of the specific system			
		he checking data test of the spec	cific component	
		Is test pass?		
		ed to step 3		
	• Yes : Proc	eed to step4		
	Step 3	Step ID 114D-c	SRT	
	<ul> <li>Repair or replace component</li> <li>Repair or replace the component, also check for electrical connection and wiring harness.</li> </ul>			
	Reconnect the connector			
	ON the ignition key  Use DAVIE to re-check for the presence of active faults:			
		lt active: Proceed to step 4	auits:	
		It inactive: Issue resolved. Clear	inactive fault	
	3 13 27 6 144	it mactive. 133de resolved. Cicar	macrive radic	
	Step 4	Step ID 114D-d	SRT	
	For further assistance in diagnosing this issue or for confirmation prior to the		or confirmation prior to the	
	replacement of suspect components, contact the Engine Support Call Center at			
	1-800-477-0251.			
Verification Drive Cycle	To validate the repair, with the brakes set, turn the key to the ON position with the engine off, and allow 10 seconds for the system to initialize and run diagnostics.  With the brakes set, start the engine and allow it to run at idle for 2 minutes.		nitialize and run diagnostics.	
			Back to Index	

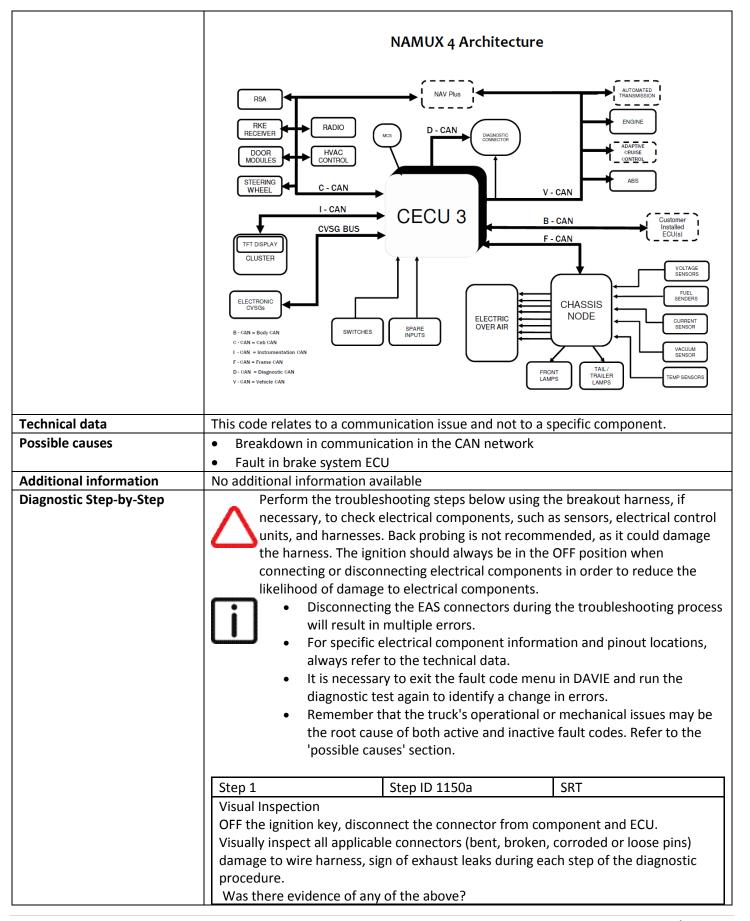


Code number	U1150		
Fault code description	CAN communication - Message (EBC1) rate too high from brake system		
Fault code information	3 drive cycle recovery		
	Readiness group – None		
	Freeze frame type – Generic		
Description of component(s)	This code relates to a communication issue and not to a specific component.		
Location of component(s)	This code relates to a communication issue and not to a specific component.		
Diagnostic condition	This diagnostic runs continuously when the ignition is on.		
Set condition of fault code			
Reset condition of fault code	This DTC changes to inactive as soon as the error is no longer detected.		
Electrical diagram(s)			
	NAMUX 3 Architecture: 2010 B-Cab  FIREWALL  STEERING WHEEL  DIAGNOSTIC CONNECTOR PACCAR DISPIBLY  CONNECTOR PACCAR DISPIBLY  VOLTAGE SENSORS FRAME INPUTS  FRONT TAIL TAIL TAIL TEMP SENSORS  FRONT TAIL TAIL TEMP SENSORS  TERM TAIL TEMP SENSORS  TERM TAIL TEMP SENSORS  TERM TAIL TEMP SENSORS TERM TAIL TEMP SENSORS TERM TAIL TEMP SENSORS TERM TAIL TEMP SENSORS TERM TAIL TEMP SENSORS TERM TAIL TEMP SENSORS TERM TAIL TEMP SENSORS TERM TAIL TEMP SENSORS TERM TAIL TEMP SENSORS TERM TAIL TEMP SENSORS TERM TAIL TEMP SENSORS TERM TAIL TEMP SENSORS TERM TAIL TEMP SENSORS TEMP TEMP TAIL TEMP SENSORS TEMP TAIL TEMP SENSORS TEMP TEMP TAIL TEMP SENSORS TEMP TEMP TAIL TEMP SENSORS TEMP TEMP TEMP TAIL TEMP SENSORS TEMP TEMP TAIL TEMP TEMP TEMP TEMP TEMP TEMP TEMP TEMP		









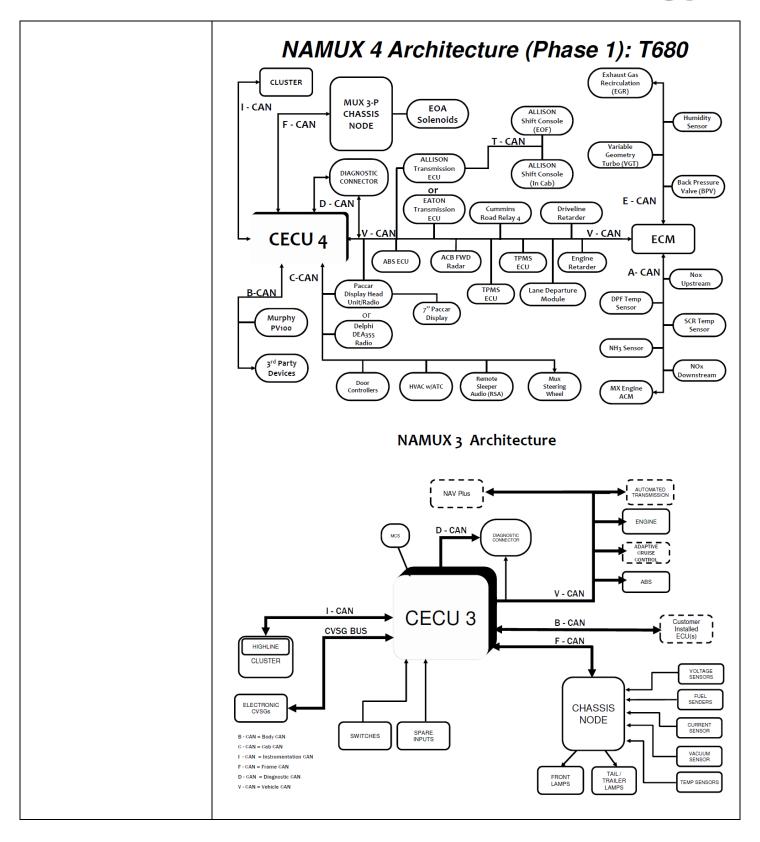


	<ul><li>Yes: Make</li><li>Use DAVIE to re-c</li><li>If this rela</li></ul>	ted to step 2.  The the appropriate repairs or concept the appropriate repairs or concept the presence of active ated fault is no longer active, the ted fault is still active, Proceed to	faults. en this issue has been resolved.	
	Step 2	Step ID 1150b	SRT	
	Data check  Lookup th Perform t Is test pass? No: Proce	ne technical data of the specific the checking data test of the specied to step 3 need to step4	•	
	Step 3 Step ID 1150c SRT			
	<ul> <li>Repair or replace component</li> <li>Repair or replace the component, also check for electrical connection and wiring harness.</li> <li>Reconnect the connector</li> <li>ON the ignition key</li> <li>Use DAVIE to re-check for the presence of active faults:</li> <li>Is DTC fault active: Proceed to step 4</li> <li>Is DTC fault inactive: Issue resolved. Clear inactive fault</li> </ul>			
		Step ID 1150d ance in diagnosing this issue or fuspect components, contact the	•	
Verification Drive Cycle	engine off, and allo	air, with the brakes set, turn the bw 10 seconds for the system to t, start the engine and allow it t	_	
			Back to Index	

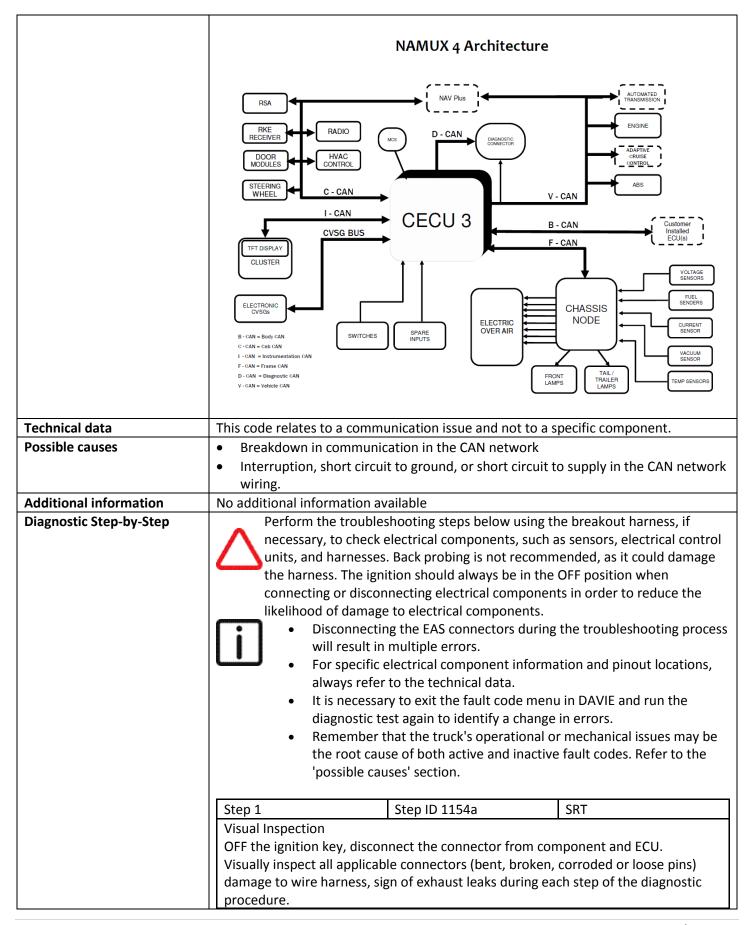


Code number	U1154	
Fault code description	CAN communication - Message (B) rate too low from brake system	
Fault code information	3 drive cycle recovery	
	Readiness group – None	
	Freeze frame type – Generic	
Description of component(s)	This code relates to a communication issue and not to a specific component.	
Location of component(s)	This code relates to a communication issue and not to a specific component.	
Diagnostic condition	This diagnostic runs continuously when the ignition is on.	
Set condition of fault code		
Reset condition of fault code	This DTC changes to inactive as soon as the error is no longer detected.	
Electrical diagram(s)		
	NAMUX 3 Architecture: 2010 B-Cab  FIREWALL  ATTO  TRANSMISSION  FIREWALL  AUTO  TRANSMISSION  TOUTAGE  SENSORS  FIREWALL  FRONT  TAIL  TEMP  SENSORS  TEMP  TAIL  TEMP  SENSORS  TEMP  TAIL  TEMP  TEMP	











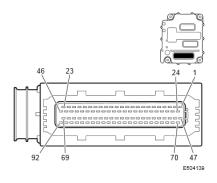
		of any of the above?				
	No: Proceed	•				
		Yes: Make the appropriate repairs or component replacements.				
	Use DAVIE to re-check for the presence of active faults.					
	If this relate	<ul> <li>If this related fault is no longer active, then this issue has been resolved.</li> </ul>				
	<ul> <li>f this related</li> </ul>	I fault is still active, Proceed	to step 2			
	Step 2	Step ID 1154b	SRT			
	Data check					
	Lookup the	echnical data of the specific	system			
	Perform the	checking data test of the spe	ecific component			
	Is test pass?					
	No: Proceed	to step 3				
	Yes : Procee	d to step4				
		<u> </u>				
	Step 3	Step ID 1154c	SRT			
	Repair or replace component					
	Repair or replace the component, also check for electrical connect					
	wiring harness .  • Reconnect the connector					
	ON the ignit	ion key				
		ck for the presence of active	faults:			
		active: Proceed to step 4				
		nactive: Issue resolved. Clea	ar inactive fault			
	Step 4	Step ID 1154d	SRT			
			for confirmation prior to the			
		0	Engine Support Call Center at			
	1-800-477-0251.	cer components, contact the	i Engine Support can center at			
Vanification Duite Cools			- lt- th- ONitiith th-			
Verification Drive Cycle			e key to the ON position with the			
			o initialize and run diagnostics.			
	vvitii tile brakes set, s	tart the engine and allow it t	o run at lule for 2 minutes.			
			Back to Inde			
			<u> </u>			

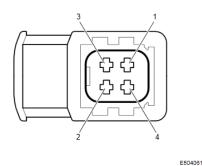


01159			
Code number	U1159		
Fault code description	VTG turbo charger actuator - CAN communication error, message rate too low		
Fault code information	1 trip MIL 3 drive cycle recovery Readiness group – None Freeze frame type – Generic		
Description of	This code relate	s to a communio	cation issue and not to a specific component.
component(s)			
Location of component(s)	This code relate	s to a communio	cation issue and not to a specific component.
Diagnostic condition	This diagnostic r	uns continuous	ly when the ignition is on.
Set condition of fault code	The PCI ECU (D4	20) lost commu	nication with the VTG turbocharger actuator (L037).
Reset condition of fault code	This DTC changes to inactive after the ignition is keyed off for at least 15 seconds, keyed on again, and the trouble code is no longer detected.		
	9 10 3 1 5 2 6 123E 6 7 A204  L037		
	D420 PCI ECU		
	L037 VTG turbo	charger actuato	or
	D420	L037	Function
	C90	3	E-CAN high
	C92	4	E-CAN low
		1	Power supply after ignition
		2	Ground



### E-CAN terminating resistance 108-132 $\Omega$





Wiring harness connector D420.C front view

Wiring harness connector L037



Handle connectors and pins with care and use matching measuring probes.

#### **Technical data**

Component and wiring checks, VTG turbocharger actuator (L037)

### Component check, VTG turbocharger actuator (L037)

### **Preparation**

- Switch off the ignition.
- Disconnect connector L037.
- Measure on component L037.

Pin (+ probe)	Pin (- probe)	Value	Additional information
3	4	± 120 Ω	

Besides the termination resistor check, this type of component cannot be checked with a multimeter/oscilloscope. Perform the following to assess the component:

- Monitor/test the component with DAVIE.
- Perform the wiring check (see below).

# Wiring check, VTG turbocharger actuator (L037)

## **Preparation**

- Switch off the ignition.
- Disconnect connector L037.
- Measure on component connector L037.

Pin	Pin	Value	Additional information



	(+ probe)	(- probe)		
	1	2	Ubat	Switch on the ignition
	3	4	± 120 Ω	Switch off the ignition
				Disconnect the ground cable from the battery
				Disconnect the vehicle communication
				interface (VCI) of DAVIE
Possible causes	• Communio	cation error be	etween actuat	or and PCI ECU.
	• No or inco	rrect VTG turk	oo charger act	uator power supply.
	Faulty VTC	G turbocharge	r actuator.	
Additional information	The VTG turbo	-	•	VTG turbocharger actuator, a smart actuator -CAN.
Diagnostic Step-by-Step	<b>∠</b> di	_	lectrical comp	e in the OFF position when connecting or connents to reduce the likelihood of damage to
	j ·			edure is based on the assumption that supply PCI are functioning properly.
	•		ng the PCI con Itiple errors.	nectors during the troubleshooting process will
	•	provided in	this procedure	nent information and pin out locations are e as a reference only. Always refer to the Rapido for the most up-to-date changes.
	•		•	IE to clear all current DTCs from the PCI and the Quick Check to identify a change in fault
	•			esult of multiple failure modes. For proper fault ubleshooting steps in the sequence provided.
	Step 1 VTG To	urbo Charger <i>I</i>	Actuator (L037	7) Checks
	Step 1A Visu	ual inspection,	, VTG turbo ch	narger actuator (L037)
	Action			
		ally inspect the ollowing:	e associated co	omponent connections and wiring for any of
	• [	Damaged or lo	ose connecto	rs
	• [	Bent, broken, d	corroded or lo	ose connector pins



•	Moistiire	or c	tri	ın	the	connections

- Damage to the wire harness or insulation
- The correct parts are not installed
- ECU connections are damaged or disconnected
- Batteries are not okay, contacts are not tight
- VTG turbo charger actuator broken or not installed correctly

Was there evidence of any of the above?

	T
Yes	No
Correct any issues found.  If the VTG turbo charger actuator is found to be damaged or broken, the actuator may need to be replaced. Contact the PACCAR Engine Support Center for further assistance.  Refer to step 2A to perform the corresponding repair verification cycles and rechecks.	
If this DTC is still present, go to step 1B	Go to step 1B

## Step 1B Electrical checks, supply voltage, VTG turbo charger actuator (L037)



Refer to the corresponding checking data for associated supply and signal voltages, resistance values, and related connector pin test points.

#### **Action**

1. Confirm the supply voltage level as outlined in the corresponding checking data, "wiring check, VTG turbocharger actuator (L037)."

Is the measured value within expected range?

Yes	No
	Inspect the 12 V battery voltage and power and ground wiring. Correct the battery or wiring, as needed. Refer to step 2A to perform the corresponding repair verification cycles and rechecks.
Go to step 1C	If this DTC is still present, go to step 1C



### Step 1C Electrical checks, termination resistance, VTG turbo charger actuator (L037)



Refer to the corresponding checking data for associated supply and signal voltages, resistance values, and related connector pin test points.

#### **Action**

1. With the VTG turbo charger unplugged, check the termination resistance as outlined in, "component check, VTG Turbocharger Actuator (L037)."

Are measured values within expected range?

, ,	
Yes	No
	Correct any issues found, or contact the PACCAR Engine Support Call Center for further assistance in diagnosing and correcting this issue.  Refer to step 2A to perform the corresponding repair verification cycles and rechecks.
Go to step 1D	If this DTC is still present, go to step 1D

### Step 1D Electrical checks, component isolation

#### **Action**

Perform the following steps for each of the components listed below, one at a time, to isolate the possible cause of this DTC.

- Turbocharger actuator (L037)
- EGR valve module (L095)
- BPV actuator (L096)
- Humidity sensor (F852)
- 1. Switch off the ignition.
- 2. Disconnect the suspected component's connector.
- 3. Switch on the ignition.
- 4. Use DAVIE Diagnostics to view all current DTCs, to determine if disconnecting the suspected component has changed the status for U1159.



Repeat these steps for each of the suspected components until a change in U1159 status can be observed.		
Did the status for U1159 change when a component was disconnected?		
Yes	No	
Investigate the suspected component, checking related wiring and connections, or component operation. Correct any issues found or replace the component if it is found to be damaged or broken.  Refer to step 2A to perform the corresponding repair verification cycles and rechecks.		
If this DTC is still present, go to step 1E	Go to step 1E	

### Action

1. Check the resistance between CAN-H and CAN-L at the as outlined in the corresponding checking data, "E-CAN PCI ECU (D420), circuit check, E-CAN and wiring."

Are measured values within expected range?

Yes	No
	Contact the PACCAR Engine Support Call Center for further assistance in diagnosing and correcting this issue. Refer to step 2A to perform the corresponding repair verification cycles and rechecks.
Go to step 1F	If this DTC is still present, go to step 1F

### Step 1F Visual inspection, turbo charger actuator (L037)

### Action

1. Visually inspect the turbocharger fuse to see if it is blown.

Is the turbocharger fuse blown?



Yes	No
Replace the turbocharger fuse. Visually inspect the turbocharger actuator (L037) for evidence of coolant or moisture. In addition to a blown fuse, if the turbocharger actuator (L037) shows evidence of coolant or moisture, the entire turbocharger (not just the turbocharger actuator) may need to be replaced. Contact the PACCAR Engine Support Call Center for confirmation before replacing the turbocharger.	
If all steps have been completed and this DTC is still present, contact the PACCAR Engine Support Center for further assistance.	If all steps have been completed and this DTC is still present, contact the PACCAR Engine Support Center for further assistance.

### **Step 2 Repair Verification**

### Step 2A Repair verification cycles

Perform these repair verification cycles following any corrective actions taken, to enable related OBD monitors to reach a readiness state associated with the DTC or system being investigated.



Before beginning these repair verification cycles, use the DAVIE Diagnostics, Quick Check function to clear all current DTCs from the PCI and EAS-3 ECUs.

#### Action

#### Steady State

This cycle is best performed on a level grade road (least amount of incline possible) and under load using a trailer. If a loaded trailer is unavailable, produce engine load by turning the A/C and fan to ON.

With the System Initiation cycle complete, proceed to a road with a minimum speed limit of 50 mph, then get to the highest gear possible with the engine speed between 1100-1500 rpm, and set the cruise control. Run this cycle for roughly 3 to 5 miles or in three separate 1-mile increments if a steady 3 to 5 miles is unachievable.

Were the identified repair verification cycles able to be completed?

Yes



Go to step 2B	Go to step 2B
	Investigate and correct any issues preventing these repair verification cycles from being completed, then re-run. For additional assistance, contact the PACCAR Engine Support Center.

### Step 2B DAVIE Diagnostics, Quick Check, OBD Readiness Monitors

#### Action

Use DAVIE Diagnostics to perform a Quick Check for current DTCs to determine whether the actions taken have cleared this DTC.

- 1. Confirm that the corresponding OBD Monitor Readiness Status value is displayed as "Ready."
  - A status of Ready indicates that the corresponding OBD monitor has run successfully and the problem has been resolved—no further action.
  - If the displayed status is "Not ready," continue to action step 2.
- 2. View the DTC overview display, and confirm that U1159 has been cleared.

Is the related OBD Monitor Readiness Status set to "Ready." Or, has U1159 been cleared?

Yes	No
Problem resolved. No further actions.	Continue with the next step in this troubleshooting procedure.  If all steps have been completed and this DTC is still present:  • continue to operate the truck to extend the run time, allowing the corresponding OBD monitor sufficient time to complete  • or, return to step 2A and perform this repair verification again.  If this issue is still present after extending or re-running the repair verification, contact the PACCAR Engine Support Center for further assistance.

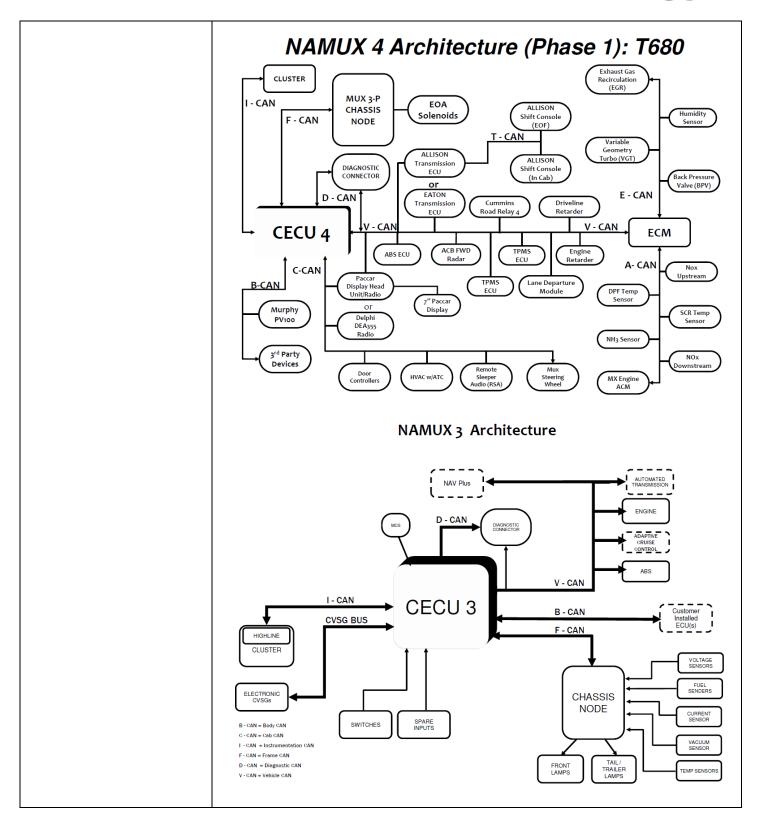


i	Contacting the PACCAR Engine Support Center  For further assistance in diagnosing this issue or for confirmation prior to the replacement of suspect components, contact the PACCAR Engine Support Call Center.
	Back to Index

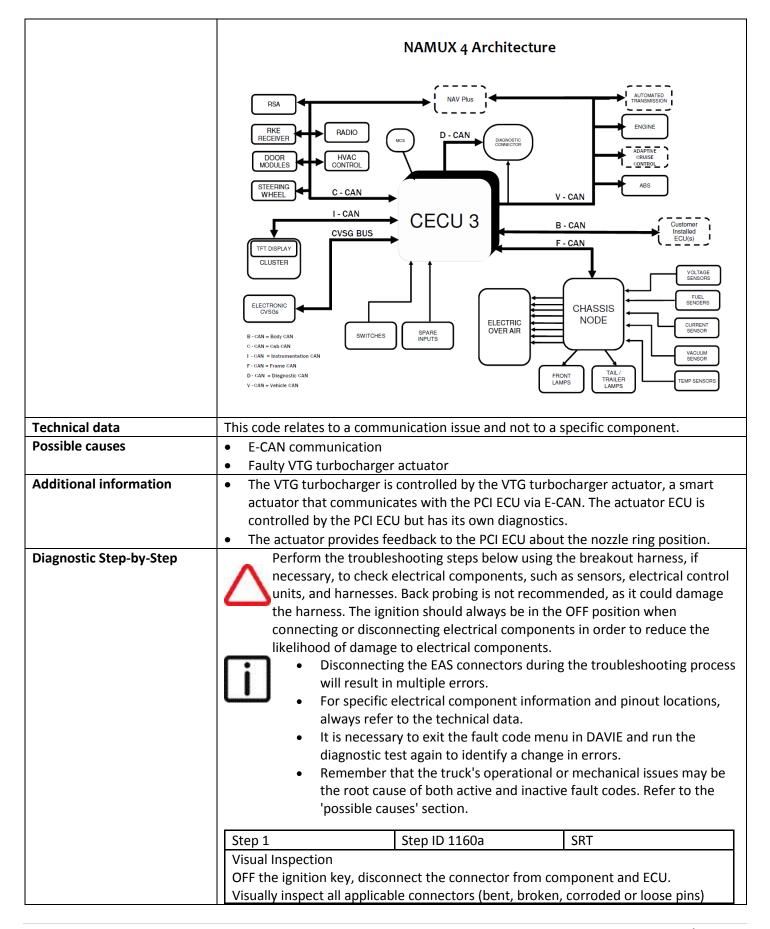


Code number	U1160
Fault code description	VTG turbo charger actuator position - Data erratic, intermittent or incorrect
Fault code information	1 trip MIL
	3 drive cycle recovery
	Readiness group – None
	Freeze frame type – Generic
Description of component(s)	This code relates to a communication issue and not to a specific component.
Location of component(s)	This code relates to a communication issue and not to a specific component.
Diagnostic condition	This diagnostic runs continuously when the ignition is on.
Set condition of fault code	The PCI ECU (D420) receives a CAN message from the VTG turbo charger actuator
	(L037) that contains an out of range value for the actuator position.
Reset condition of fault code	This DTC changes to inactive after the ignition is keyed off for at least 15 seconds,
	keyed on again, and the fault is no longer detected.
Electrical diagram(s)	
	NAME
	NAMUX 3 Architecture: 2010 B-Cab
	FIREWALL Aftertreatment CAN
	Cluster  Cab CAN  Cluster  Cab CAN  Cab CAN  Comed Can
	FRONT TAIL / TRAILER LAMPS  TEMP SENSORS  TAIL / TRAILER LAMPS









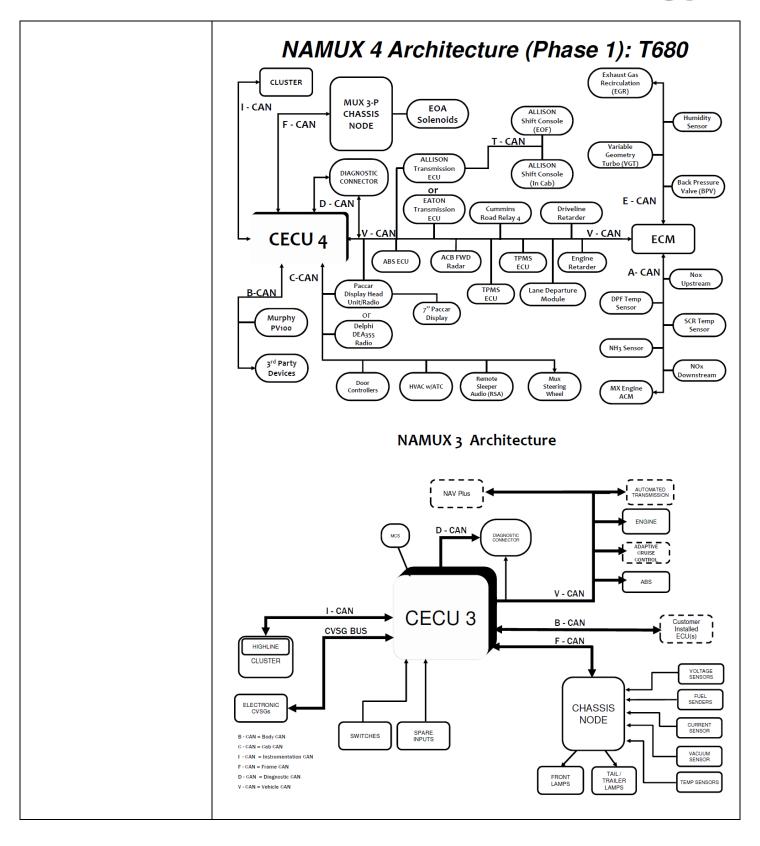


	11	harness, sign of exhaust leaks dur	ing each step of the diagnostic
	procedure.		
		nce of any of the above?	
		eed to step 2.	
		ke the appropriate repairs or com	
		check for the presence of active f	
		lated fault is no longer active, the	
	If this re	lated fault is still active, Proceed t	o step 2
		T =	
	Step 2	Step ID 1160b	SRT
	Data check		
		the technical data of the specific s	•
	Perform	the checking data test of the spec	cific component
	Is test pass?		
	No: Proc	eed to step 3	
	Yes : Pro	ceed to step4	
	Step 3	Step ID 1160c	SRT
	Repair or replace	component	
	Repair o	r replace the component, also che	eck for electrical connection and
	wiring harness.		
	Reconne	ect the connector	
	ON the i	gnition key	
	Use DAVIE to re-	check for the presence of active f	aults:
	Is DTC fault active: Proceed to step 4		
	Is DTC fault inactive: Issue resolved. Clear inactive fault.		
	Step 4	Step ID 1160d	SRT
	_ · _ ·	tance in diagnosing this issue or fo	or confirmation prior to the
		suspect components, contact the	
	at 1-800-477-0		9
Verification Drive Cycle	To validate the re	pair, with the brakes set, turn the	key to the ON position with the
,	· ·	ow 10 seconds for the system to	·
		et, start the engine and allow it to	<del>-</del>
			Back to Index

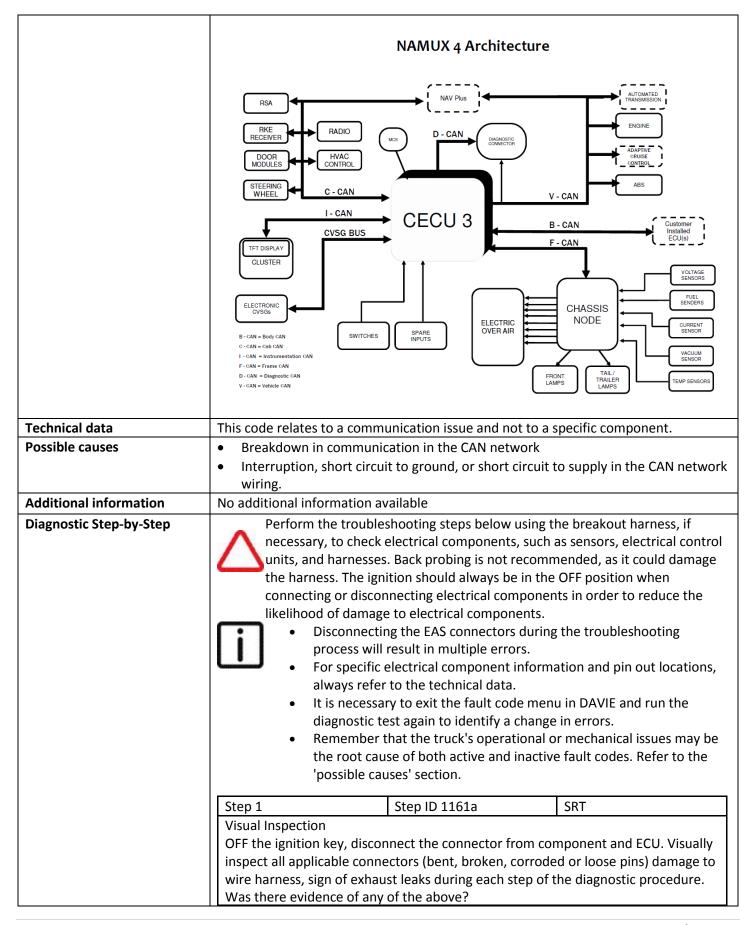


Code number	U1161	
Fault code description	CAN communication - Message (A1SCRAI2) rate too low from emission system	
Fault code information	1 trip MIL	
	3 drive cycle recovery	
	Readiness group – None	
	Freeze frame type – Generic	
Description of component(s)	This code relates to a communication issue and not to a specific component.	
Location of component(s)	This code relates to a communication issue and not to a specific component.	
Diagnostic condition	This diagnostic runs continuously when the ignition is on.	
Set condition of fault code		
Reset condition of fault code	This DTC changes to inactive as soon as the error is no longer detected.	
Electrical diagram(s)		
	NAMUX 3 Architecture: 2010 B-Cab  FIREWALL  Aftertreatment CAN  Diagnostic CAN  AUTO  (TRANSMISSION)  ENGINE  ABS  PACCAR Display  PACCAR Display  Vehicle CAN  Vehicle CAN  CUSG BUS  SPARE INPUTS  SPARE INPUTS  FIREWALL  FIREWALL  FIREWALL  FIREWALL  FIREWALL  FIREWALL  Aftertreatment CAN  PACCAR DISPLAY  CUSTAGE SENSORS  FUEL SENSORS  SENSORS  FIREWALL  FIREWALL	











	No: Proceed	to step 2.		
	Yes: Make the appropriate repairs or component replacements.			
	Use DAVIE to re-check for the presence of active faults.			
		•	en this issue has been resolved.	
		d fault is still active, Proceed		
	- II this relates	a radic is still active, i roccea	10 Step 2	
	Step 2	Step ID 1161b	SRT	
	Data check	•	•	
	<ul> <li>Lookup the t</li> </ul>	echnical data of the specific s	system	
		checking data test of the spe		
	Is test pass?		·	
	No: Proceed	to step 3		
	Yes : Proceed	•		
	Step 3	Step ID 1161c	SRT	
	Repair or replace cor	nponent		
	Repair or rep	place the component, also ch	eck for electrical connection and	
	wiring harne	SS.		
	Reconnect the second control of the sec	ne connector		
	ON the igniti	ion key		
	Use DAVIE to re-ched	ck for the presence of active t	faults:	
	Is DTC fault a	active: Proceed to step 4		
	Is DTC fault inactive: Issue resolved. Clear inactive fault.			
	Step 4	Step ID 1161d	SRT	
	For further assistance in diagnosing this issue or for confirmation prior to the			
	replacement of suspect components, contact the Engine Support Call Center at 1-			
	800-477-0251.			
Verification Drive Cycle	To verify the repair:			
,	•	urn the key to the ON positio	n with the engine off, and allow 10	
		n to initialize and run diagnos	_	
	With the brakes set, s	tart the engine and allow it to	o run at idle for 2 minutes	
			Back to Index	

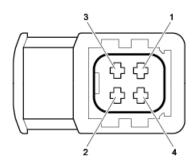




01103			
Code number	U1163		
Fault code description	CAN communication - Message (A1SCRAI2) out of range - SCR intermediate NH3 from		
	emission system		
Fault code information	1 trip MIL		
	3 drive cycle recovery		
	Freeze frame type – Crankcase		
Description of component(s)	This code relates to a communication issue dealing with the signal for the NH3 sensor		
	to the ACM to the engine PCI.		
Location of common antich	This and relates to a communication issue and not a modific communication		
Location of component(s)	This code relates to a communication issue and not a specific component.		
Diagnostic condition	This diagnostic consists of two parts:		
3			
	This diagnostic runs continuously when the ignition is initially keyed on		
	This diagnostic runs when the engine is running.		
Set condition of fault code	The aftertreatment 1 SCR ammonia information 2 reception message is received		
	every 50 ms. If more than 50 messages are received with an NH3 value above		
	6225.5 ppm, the fault sets.		
Reset condition of fault code	THE DTC changes to inactive as soon as the error is no longer detected.		
Electrical diagram(s)			
Electrical diagram(s)			
	F838 F830 F840 F841 F842		
	OEM   R   R   R   R   T   T   T   T   T   T		
	F844 F843		
	0 -  □		
	1 3 2 4 4 3 2 1 1 3 2 4 D419		
	1 8 1 8 8 1 8		
	→ A-CAN		
	B48 B56 A15 A16		
	1200		
	D420 D374		
	   4\c2361-3		
	D420 PCI ECU		
	D374 EAS-3 ECU		
	F869 NH3 sensor		



D420	F823	Function
B14	3	A-CAN High
B15	2	A-CAN Low
	1	Power supply
	4	Ground



Wiring harness connector F869

i

Handle connectors and pins with care and use matching measuring probes.

### **Technical data**

Component and circuit checks, NH3 sensor (F869)

Circuit check, ECU & wiring

### **Conditions**

- Connector removed from NH3 sensor (F869)
- Ignition switch to ON
- Measurements must be made on the wiring harness connector F869

Pin	Pin	Value	Additional information
(+ probe)	(- probe)		
1	4	Ubat	
4	Battery negative pole	>0.5V	Switch on all consumers



## Circuit check, A-CAN **Conditions** Ignition switch to OFF Connector removed from NH3 sensor (F869) Measurements must be made on the wiring harness connector F823 Pin Pin Value **Additional information** (+ probe) (- probe) 3 2 $\pm$ 60 $\Omega$ **Possible causes** Breakdown in communication of the CAN network An open circuit or a short circuit to ground for the NH3 sensor (F869) **Additional information** This is a low level CAN fault that is checking whether the message from the ACM is within a specified range. **Diagnostic Step-by-Step** The ignition should always be in the OFF position when connecting or disconnecting electrical components to reduce the likelihood of damage to the components. This troubleshooting procedure is based on the assumption that supply power and ground to the PMCI are functioning properly. Disconnecting the PMCI connectors during the troubleshooting process will result in multiple errors. For specific electrical component information and pin out locations, always refer to the technical data in Rapido. It is necessary to exit the 'Active errors' screen in DAVIE and run the diagnostic test again to identify a change in errors. This DTC can be set as a result of multiple failure modes. For proper fault isolation, complete all troubleshooting steps in the sequence provided. Step 1. Investigate Related Trouble Codes Before troubleshooting this code, take notice of any other current trouble codes. One or multiple other codes could have been the cause for this code. Step U1163\_1.A Investigate related trouble codes SRT: Are these or any other related trouble codes present?



P3950; P3951; P3952; P3953; P3954; P3955; P3956; P3961; P3962; P3963; P3964; P3965; P3966; P3966; P3969; P3969: P3970

**Yes** Refer to the troubleshooting information for these codes before continuing with this procedure.

No Step 2.A

#### Step 2. NH3 Sensor Checks

### Step U1163 2.A Visual Inspection: NH3 Sensor (F869) SRT:

Visually inspect the associated component connections and wiring for any of the following:

- Damaged or loose connectors
- Bent, broken, corroded or loose connector pins
- Moisture or dirt in the connections
- Missing or damaged connector seals
- Damage to the wire harness or insulation
- Connector locking tabs damaged or not functioning
- ECU connections are damaged or disconnected
- Battery voltage low, loose contacts
- NH3 sensor is broken or not installed correctly
- The correct parts are not installed

Was there evidence of any of the above?

**Yes** Clean or and repair any issues found.

If the NH3 sensor (F869) is found to be damaged or broken, replace it. Refer to Step 3.A to perform the corresponding repair verification cycles. Use DAVIE Diagnostics to perform a Quick Check for current trouble codes. If this code is still active, proceed to Step 2.B

No Step 2.B

#### Step U1163 2.B Electrical Checks: NH3 sensor (F869)

SRT:



Refer to the corresponding Checking Data in Engine Service – Rapido for associated supply and signal voltages, resistance values, and related connector pin test points.

#### 2.B.1 Supply and signal voltage

Perform circuit check, ECU & wiring measurements across the corresponding pins of the NH3 sensor (F869) wiring harness connector.

Are measured values within expected range?

Yes Step 2.B.2

No Correct any issues found, or replace the sensor if measured values indicate a



sensor error.

Refer to Step 3.A to perform the corresponding repair verification cycles. Use DAVIE Diagnostics to perform a Quick Check for current trouble codes. If this code is still active, proceed to Step 2.B.2

#### 2.B.2 Resistance checks

Perform circuit check, ECU & wiring measurements across the corresponding pins of the NH3 sensor (F869) wiring harness connector.

Are measured values within expected range?

Yes Step 4.A

**No** Correct any issues found, or replace the sensor if measured values indicate a sensor error.

Refer to Step 3.A to perform the corresponding repair verification cycles. Use DAVIE Diagnostics to perform a Quick Check for current trouble codes. If this code is still active, proceed to Step 4.A

#### **Step 3. Repair Verification Cycles**



Perform these repair verification cycles following any corrective actions taken, to confirm that this trouble code is no longer active.

#### Step U1163 3.A Repair Verification Cycle: Steady State

SRT:

This cycle is best performed on a level grade road (least amount of incline possible) and under load using a trailer. If a loaded trailer is unavailable, produce engine load by turning the A/C and fan to ON.

With the System Initiation cycle complete, proceed to a road with a minimum speed limit of 50 mph, then get to the highest gear possible with the engine speed between 1100-1500 rpm, and set the cruise control. Run this cycle for roughly 3 to 5 miles or in three separate 1-mile increments if a steady 3 to 5 miles is unachievable.

#### Step U1163\_3.B Repair Verification Cycle: DEF Doser & SCR

SRT:

Perform the same driving requirements as described for the Steady State cycle. Using DAVIE, select the following Monitor values to record:

- Exhaust Temperature Before SCR
- Exhaust Temperature After SCR
- Pump Module

Once the SCR temperatures have reached a minimum of 536°F (280°C), continue the remainder of this cycle with the high idle. The monitored Pump Module value will indicate when dosing starts. Allow dosing to occur for a minimum of 15 minutes. Check the recorded values after the driving has been completed to verify

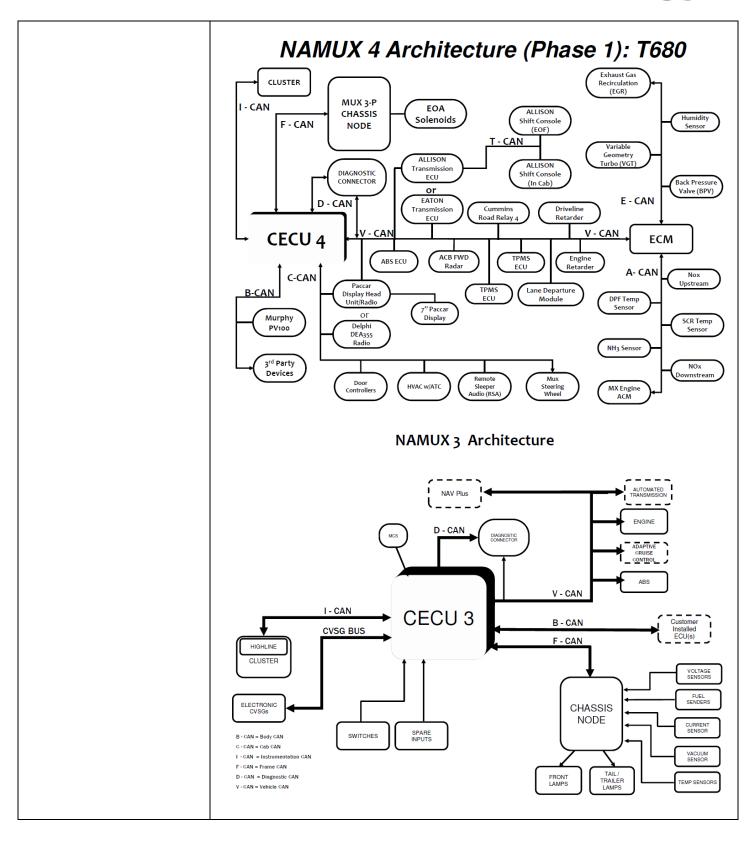


temperatures and dosing.
Step 3. Contact PACCAR Engine Support Center  Step U1163_4.A
For further assistance in diagnosing this issue or for confirmation prior to the replacement of suspect components, contact the PACCAR Engine Support Call Center at 1-800-477-0251.
Back to Index

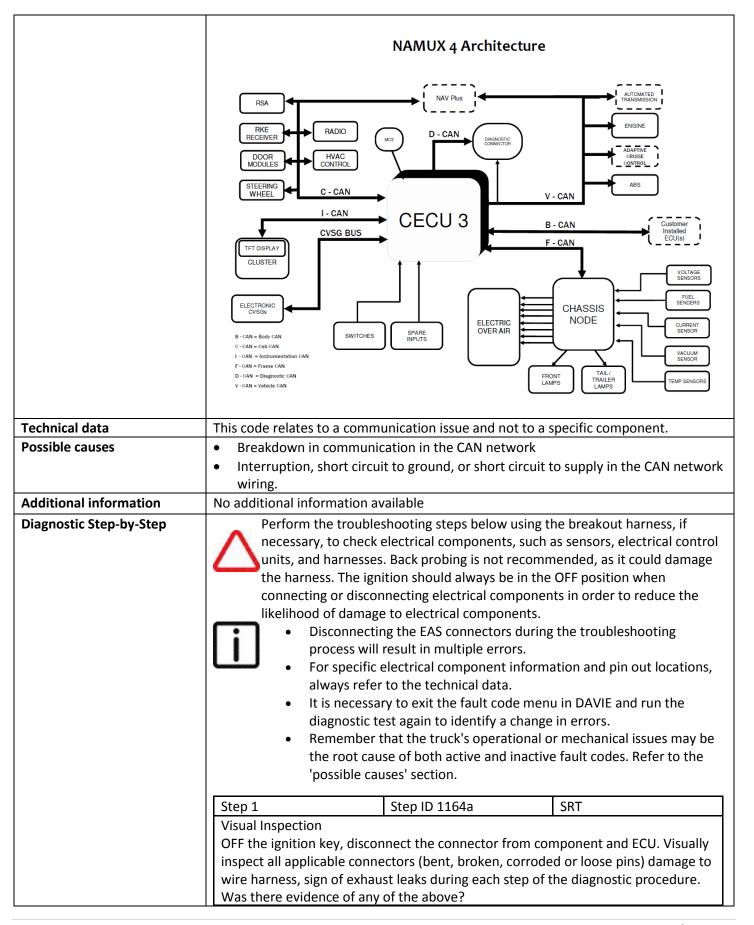


Code number	U1164		
Fault code description	CAN communication - Message (A1SCRAI2) out of range - SCR intermediate NH3		
	reading stable from emission system		
Fault code information	1 trip MIL		
	3 drive cycle recovery		
	Readiness group – None		
	Freeze frame type – Generic		
Description of component(s)	This code relates to a communication issue and not to a specific component.		
Location of component(s)	This code relates to a communication issue and not to a specific component.		
Diagnostic condition	This diagnostic runs continuously when the ignition is on.		
Set condition of fault code			
Reset condition of fault code	This DTC changes to inactive as soon as the error is no longer detected.		
Electrical diagram(s)			
	NAMUX 3 Architecture: 2010 B-Cab		
	FIREWALL Aftertreatment CAN		
	Biographic CAN The Table 1		
	STEERING WHEEL TRANSMISSION TRANSMISSION TRANSMISSION		
	MCS ABS ABS CRIISF		
	DIAGNOSTIC CONNECTOR		
	PACCAR Engine CAN		
	Cluster Cab CAN Display VGT Actuator		
	Instrumentation CAN Vehicle CAN After-treatment DCU		
	CVSG BUS VOLTAGE SENSORS		
	FUEL		
	ELECTRONIC SENDERS		
	CVSG's CURRENT SENSOR		
	SWITCHES Frame CAN CHASSIS PRESSURE SENSORS		
	SPARE INPUTS VACUUM SENSOR		
	EDONT TAIL TEMP STANGARD		
	FIREWALL LAMPS TRAILER LAMPS		
	1		









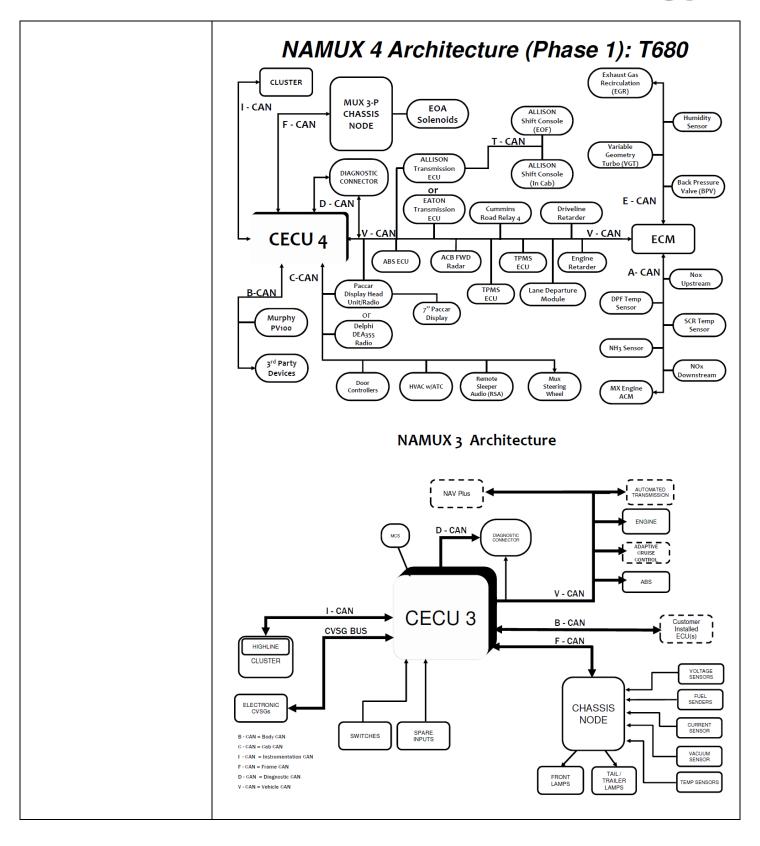


	<ul> <li>No: Proceed to step 2.</li> <li>Yes: Make the appropriate repairs or component replacements.</li> <li>Use DAVIE to re-check for the presence of active faults.</li> <li>If this related fault is no longer active, then this issue has been resolved.</li> <li>If this related fault is still active, Proceed to step 2</li> </ul>				
	Step 2	Step 2 Step ID 1164b SRT			
	Data check	·			
		echnical data of the specific	•		
		checking data test of the spe	ecific component		
	Is test pass?				
	No: Proceed to Van Branded	•			
	Yes : Proceed	to step4			
	Step 3 Step ID 1164c SRT				
	Repair or replace component				
	Repair or replace the component, also check for electrical connection and wiring harness.				
	Reconnect the connector				
	ON the ignition key				
	Use DAVIE to re-check for the presence of active faults:				
	Is DTC fault active: Proceed to step 4  Is DTC fault in active. Joseph and Clean in active fault.				
	Is DTC fault inactive: Issue resolved. Clear inactive fault.				
	Step 4	Step ID 1164d	SRT		
	For further assistance in diagnosing this issue or for confirmation prior to the replacement of suspect components, contact the Engine Support Call Center at 1-800-477-0251.				
Verification Drive Cycle	To verify the repair:				
	With the brakes set, turn the key to the ON position with the engine off, and allow 10				
	seconds for the system to initialize and run diagnostics With the brakes set, start the engine and allow it to run at idle for 2 minutes				
	vvitii tiie biakes set, ste	art the engine and anow it t	o run at luie for 2 millutes		
			Back to Index		

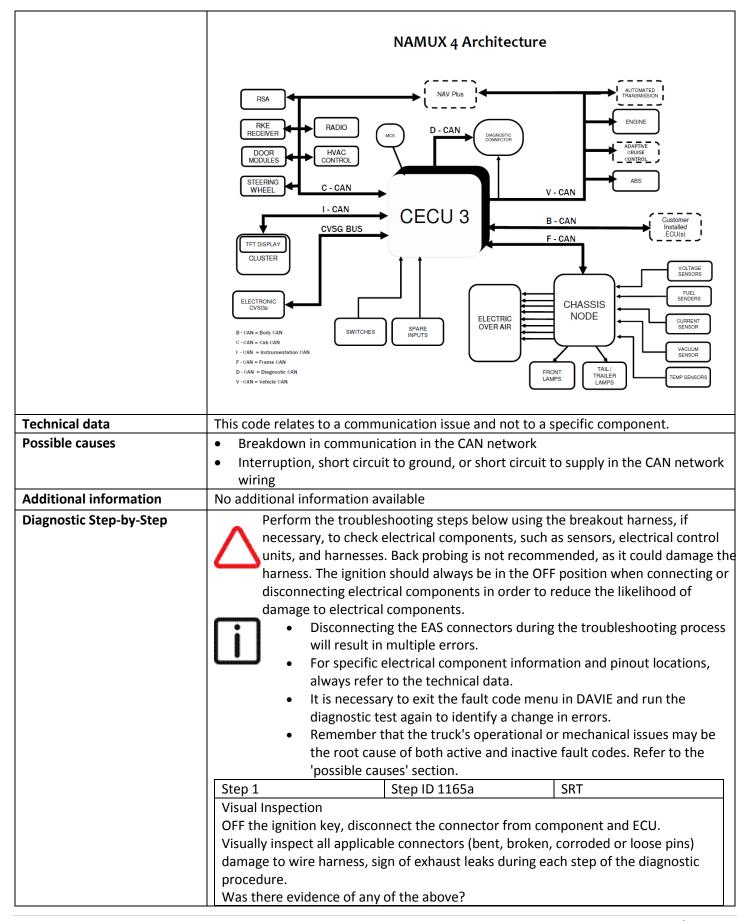


Code number	U1165		
Fault code description	CAN communication - Message (AT1S) rate too low from emission system		
Fault code information	3 drive cycle recovery		
	Readiness group – None		
	Freeze frame type - Generic		
Description of component(s)	This code relates to a communication issue and not to a specific component.		
Location of component(s)	This code relates to a communication issue and not to a specific component.		
Diagnostic condition	This code relates to a communication issue and not to a specific component.		
Set condition of fault code			
Reset condition of fault code	This DTC changes to inactive as soon as the error is no longer detected.		
Electrical diagram(s)			
	NAMUX 3 Architecture: 2010 B-Cab  FIREWALL Aftertreatment CAN  STEERING WHEEL  MCS  DIAGNOSTIC CONNECTOR  PACCAR DISplay  Vehicle CAN  Vehicle CAN  CVSG BUS  Frame CAN  FIREWALL  Aftertreatment CAN  LINGUISTA  CONTENT CONT		









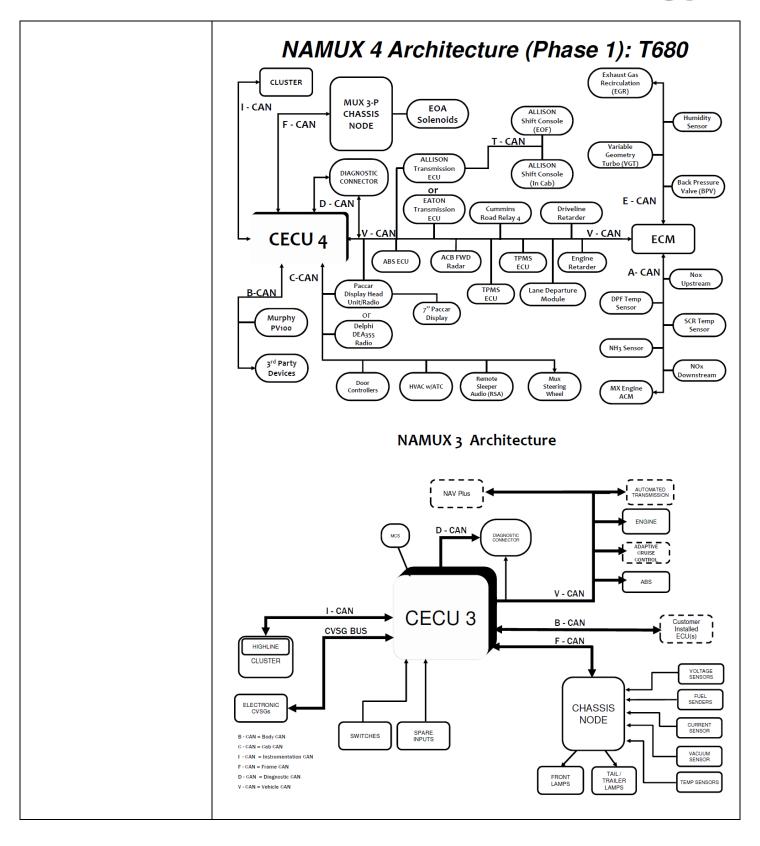


	• N	lo: Proceed to st	ep 2.		
	• Y	es: Make the ap	propriate repairs or co	mponent replacer	ments.
	Use DAVIE	<ul> <li>Use DAVIE to re-check for the presence of active faults.</li> <li>If this related fault is no longer active, then this issue has been resolved.</li> <li>If this related fault is still active, Proceed to step 2</li> </ul>			
	• If				been resolved.
	• If				
		<u>.                                      </u>			
	Step 2		Step ID 1165b	SRT	
	Data check	(		•	
	• L	ookup the techn	ical data of the specific	system	
		•	king data test of the sp	•	
	Is test pas	s?		•	
	1 1	lo: Proceed to st	ер 3		
	• Y	es : Proceed to s	tep4		
		133777333337			
	Step 3		Step ID 1165c	SRT	
	Repair or r	eplace compone	ent		
	• R	Repair or replace the component, also check for electrical connection and			connection and
	wiring harness.				
	<ul> <li>Reconnect the connector</li> <li>ON the ignition key</li> <li>Use DAVIE to re-check for the presence of active faults:</li> </ul>				
	Is DTC fault active: Proceed to step 4				
	Is DTC fault inactive: Issue resolved. Clear inactive fault				
					_
	Step 4		Step ID 1165d	SRT	
	For further assistance in diagnosing this issue or for confirmation prior to the				
	replacement of suspect components, contact the Engine Support Call Center at				
	1-800-477	-0251.	•		
Verification Drive Cycle	To validate the repair, with the brakes set, turn the key to the ON position with the engine off, and allow 10 seconds for the system to initialize and run diagnostics.			osition with the	
				diagnostics.	
	With the brakes set, start the engine and allow it to run at idle for 2 minutes.			minutes.	
					Back to Index

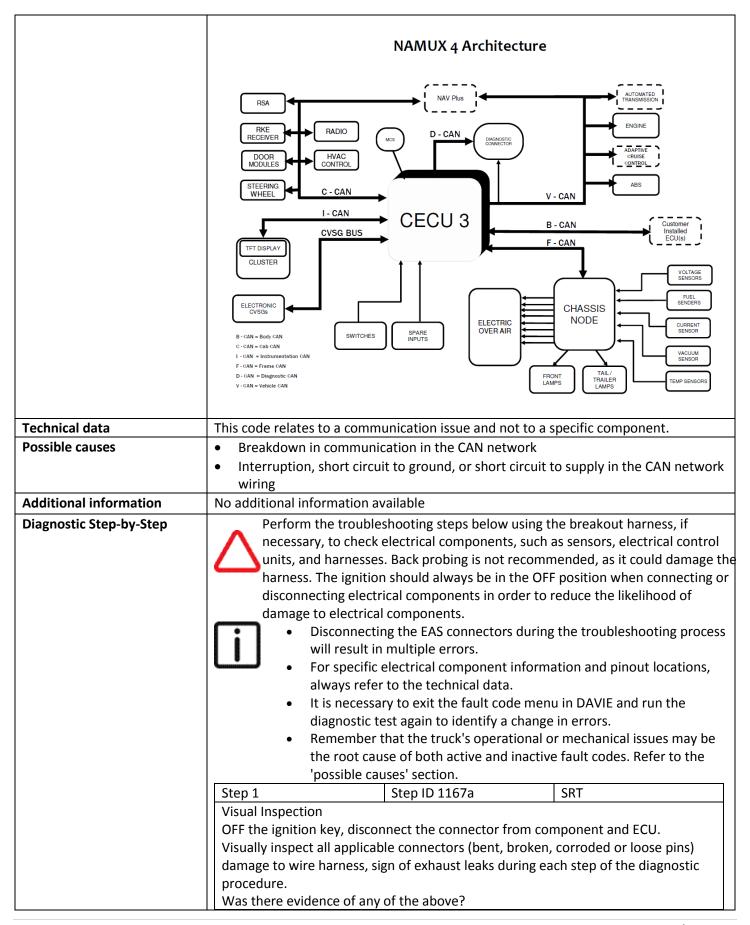


Code number	U1167		
Fault code description	CAN communication - Message (AT1S) out of range - Soot load percent from emission		
	system		
Fault code information	3 drive cycle recovery		
	Readiness group – None		
	Freeze frame type - Generic		
Description of component(s)	This code relates to a communication issue and not to a specific component.		
Location of component(s)	This code relates to a communication issue and not to a specific component.		
Diagnostic condition	This code relates to a communication issue and not to a specific component.		
Set condition of fault code			
Reset condition of fault code	This DTC changes to inactive as soon as the error is no longer detected.		
Electrical diagram(s)			
	NAMUX 3 Architecture: 2010 B-Cab		
	NAMOX SAICHRECTURE. 2010 D-Cab		
	FIREWALL Aftertreatment CAN		
	Diagnostic CAN AUTO TRANSMISSION ENGINE		
	WHEEL ()		
	MCS DIAGNOSTIC ABS CRUISE CRUISE CONTROL CONTROL		
	CONNECTOR PACCAR Engine CAN		
	Display		
	Cluster Cab CAN Actuator		
	Instrumentation CAN Vehicle CAN  Vehicle CAN  After-treatment DCU  After-treatment DCU		
	CVSG BUS VOLTAGE SENSORS		
	THE CONTROL		
	ELECTRONIC SENDERS SUPERIN		
	CVSG's CURRENT SENSOR		
	SWITCHES Frame CAN CHASSIS PRESSURE SENSORS		
	SPARE INPUTS VACUUM SENSOR		
	FRONT TAIL / TEMP SENSORS		
	FIREWALL LAMPS LAMPS		









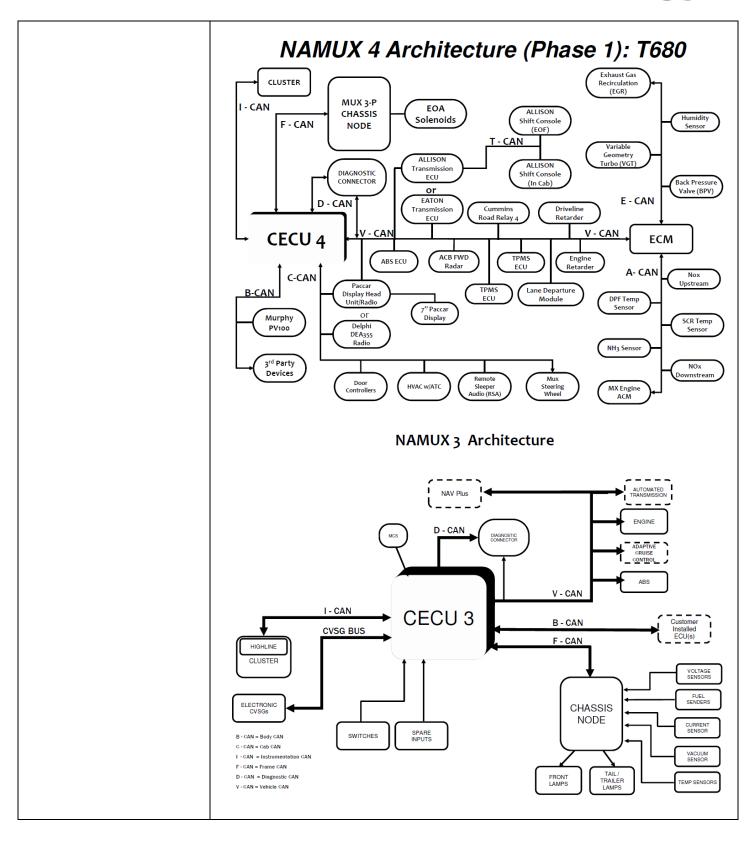


	• No	: Proceed to st	ep 2.		
	• Yes	Yes: Make the appropriate repairs or component replacements.			
	Use DAVIE to	Use DAVIE to re-check for the presence of active faults.			
	• If t	If this related fault is no longer active, then this issue has been resolved.			
	• If t	If this related fault is still active, Proceed to step 2			
		, ,			
	Step 2		Step ID 1167b	SRT	
	Data check				
	• Loc	kup the techn	ical data of the specif	ic system	
		•	king data test of the s	•	
	Is test pass?		-	•	
	• No	: Proceed to st	ep 3		
		s : Proceed to s	•		
			•		
	Step 3	Step 3 Step ID 1167c SRT			
	Repair or re	place compone	ent		
	• Re	Repair or replace the component, also check for electrical connection and			connection and
	wir	wiring harness.			
	Reconnect the connector				
	ON the ignition key				
	Use DAVIE to re-check for the presence of active faults:				
	Is DTC fault active: Proceed to step 4				
	Is DTC fault inactive: Issue resolved. Clear inactive fault				
	Step 4		Step ID 1167d	SRT	
	For further assistance in diagnosing this issue or for confirmation prior to the				
	replacement of suspect components, contact the Engine Support Call Center at				
	1-800-477-0251.				
Verification Drive Cycle	To validate th	To validate the repair, with the brakes set, turn the key to the ON position with the			
	engine off, an	engine off, and allow 10 seconds for the system to initialize and run diagnostics.			
	With the brakes set, start the engine and allow it to run at idle for 2 minutes.				
					Back to Index

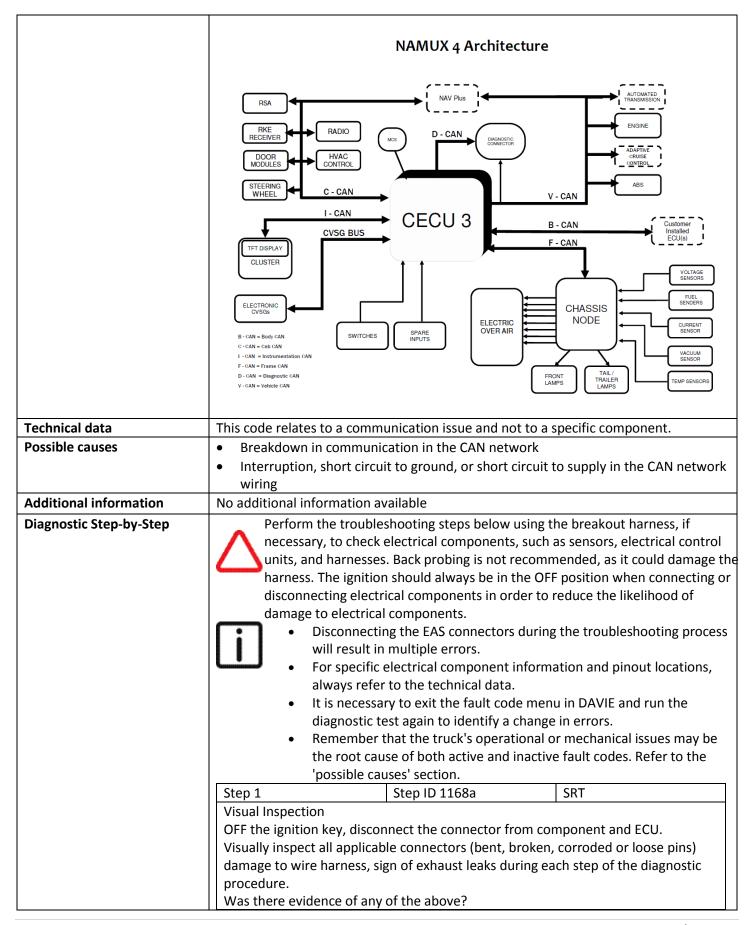


Code number	U1168		
Fault code description	CAN communication - Message (DPFC1) rate too low from emission system		
Fault code information	3 drive cycle recovery		
	Readiness group – None		
	Freeze frame type - Generic		
Description of component(s)	This code relates to a communication issue and not to a specific component.		
Location of component(s)	This code relates to a communication issue and not to a specific component.		
Diagnostic condition	This code relates to a communication issue and not to a specific component.		
Set condition of fault code			
Reset condition of fault code	This DTC changes to inactive as soon as the error is no longer detected.		
Electrical diagram(s)	NAMUX 3 Architecture: 2010 B-Cab  FIREWALL  Aftertreatment CAN  Diagnostic CAN  Diagnostic CAN  Diagnostic CAN  Diagnostic CAN  ABS  Cab CAN  Vehicle CAN  Vehicle CAN  Vehicle CAN  Vehicle CAN  Vehicle CAN  Vehicle CAN  STEERING  VOLTAGE SENSORS  SWITCHES  SWITCHES  Frame CAN  FIREWALL  FRONT  LAMPS  TAIL  TEMP SENSORS  SENSORS		









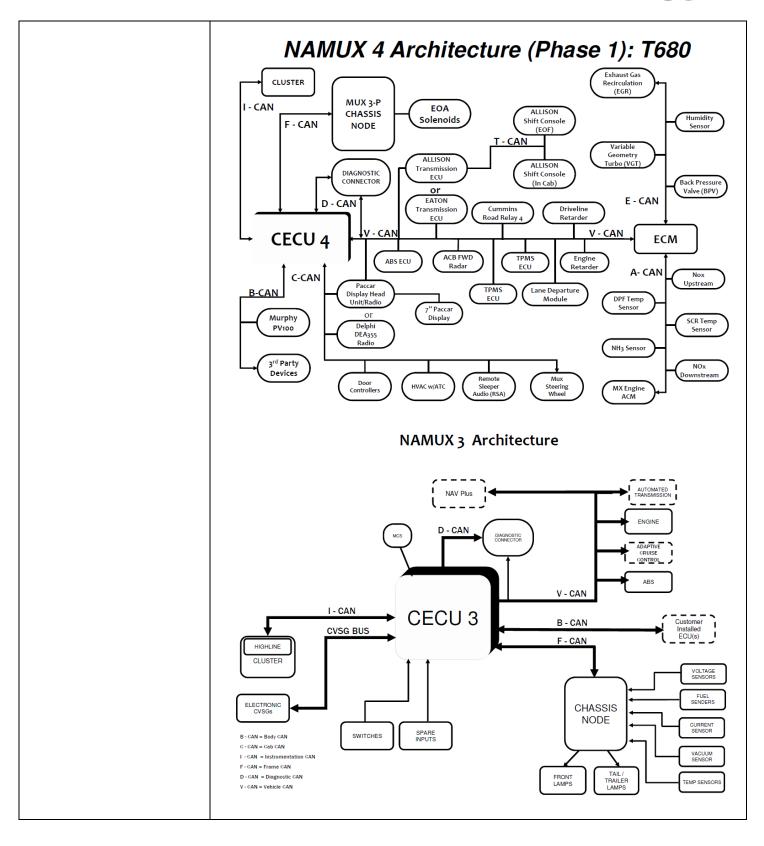


	• No: Pr	roceed to step 2.			
	Yes: N	Yes: Make the appropriate repairs or component replacements.			
	Use DAVIE to re	Use DAVIE to re-check for the presence of active faults.			
	• If this	If this related fault is no longer active, then this issue has been resolved.			
	• If this				
	Step 2	Step ID 1168b	SRT		
	Data check				
	• Looku	ip the technical data of the specif	ic system		
	Perfor	rm the checking data test of the s	specific component		
	Is test pass?				
		roceed to step 3			
	• Yes : F	Proceed to step4			
	<del>                                   </del>	Step 3 Step ID 1168c SRT			
		Repair or replace component			
	<u> </u>	· · · · · · · · · · · · · · · · · · ·	check for electrical connection and		
		wiring harness.			
	Reconnect the connector				
	ON the ignition key				
	Use DAVIE to re-check for the presence of active faults:				
	Is DTC fault active: Proceed to step 4				
	Is DTC fault inactive: Issue resolved. Clear inactive fault				
	Chan 4	C+0.0 ID 11C0.d	CDT		
	Step 4	Step ID 1168d	SRT		
	For further assistance in diagnosing this issue or for confirmation prior to the				
	replacement of suspect components, contact the Engine Support Call Center at 1-800-477-0251.				
Varification Drive Cycle					
Verification Drive Cycle	To validate the r	•	asition with the engine off and		
		With the brakes set, turn the key to the ON position with the engine off, and     When the system to initialize and my diagnostics.			
		<ul> <li>allow 10 seconds for the system to initialize and run diagnostics.</li> <li>With the brakes set, start the engine and allow it to run at idle for 2 minutes.</li> </ul>			
	• with the bra	anes set, start the elignie and allo	wit to full at fulle for 2 milliutes.		
			Back to Index		

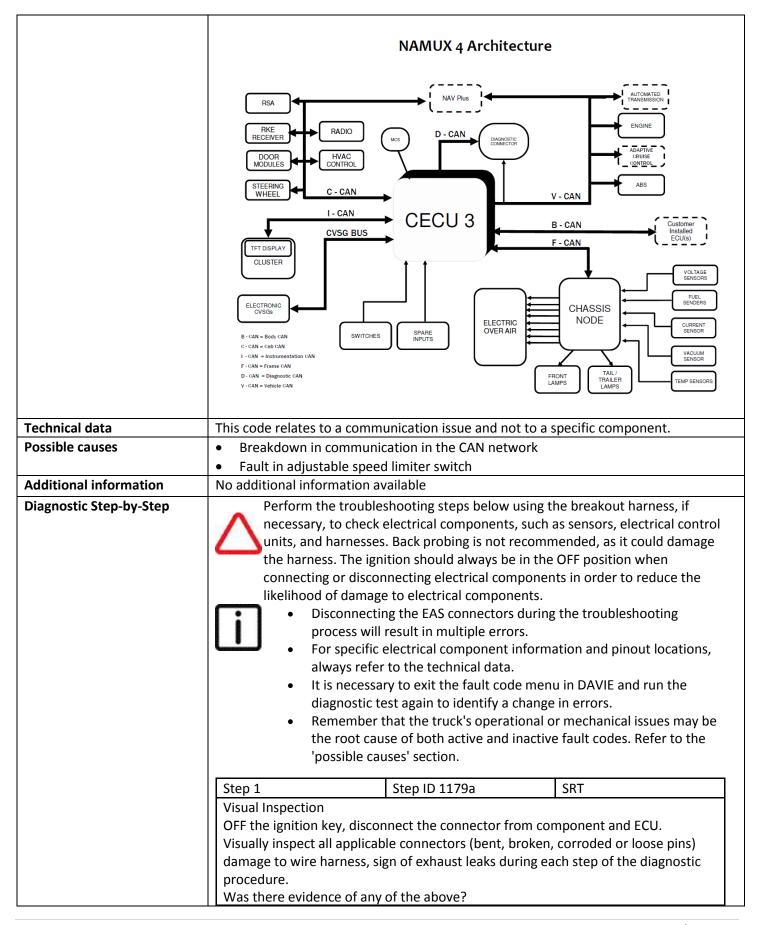


Diagnostic CAN  TRANSMISSION  ABS  ORIGINE  ORIGINA  ORIG	Code number	U1179		
Readiness group – None Freeze frame type – Generic  Description of component(s)  Location of component(s)  This code relates to a communication issue and not to a specific component.  Diagnostic condition  Set condition of fault code  Reset condition of fault code  Electrical diagram(s)  NAMUX 3 Architecture: 2010 B-Cab  FIREWALL  Aftertreatment CA  PACCAR  Diagnostic CAN  WHEEL  Diagnostic CAN  OCTUBER BUS  CUSSG BUS  FIREWALL  Aftertreatment CA  FIREWALL  Aftertreatment CA  FIREWALL  Aftertreatment CA  CUSCG BUS  FIREWALL  Aftertreatment CA  FIREWALL  ENGINE  CONNECTOR  FIREWALL  Aftertreatment CA  FIREWALL  FIREWALL  Aftertreatment CA  CUSCG BUS  FIREWALL  FIREWALL  CUSCG BUS  FIREWALL  FIREWALL  Aftertreatment CA  CUSCG BUS  FIREWALL  FIREWALL  Aftertreatment CA  CUSCG BUS  FIREWALL  FIREWALL  FIREWALL  Aftertreatment CA  CUSCG BUS  FIREWALL  FIREWALL  Aftertreatment CA  CUSCG BUS  FIREWALL  FIREWALL  FIREWALL  Aftertreatment CA  CUSCG BUS  FIREWALL  FIREWALL  FIREWALL  Aftertreatment CA  CUSCG BUS  FIREWALL  FIREWALL  FIREWALL  FIREWALL  Aftertreatment CA  CUSCG BUS  FIREWALL  FIREWALL  FIREWALL  FIREWALL  FIREWALL  FIREWALL  FIREWALL  FIREWALL  Aftertreatment CA  CUSCG BUS  CUSCG BUS  FIREWALL  FIREWA	Fault code description	CAN communication - Message (PROPB_VIC) out of range		
Freeze frame type – Generic  Description of component(s)  This code relates to a communication issue and not to a specific component.  Diagnostic condition  Set condition of fault code  Reset condition of fault code  Electrical diagram(s)  This DTC changes to inactive as soon as the error is no longer detected.  NAMUX 3 Architecture: 2010 B-Cab  FIREWALL Aftertreatment CA  WHEEL  ONNECTOR  PACCAR  DIAGNOSTIC  PACCAR  DIAGNOSTIC  CONNECTOR  ACUMENT  ACUMENT  ACUMENT  LINETTUMENTALING  CONNECTOR  PACCAR  DIAGNOSTIC  CHASSIS  FIREWALL  Aftertreatment CA  CUSTOR  CONNECTOR  CONNECTOR  CHASSIS  FIREWALL  Aftertreatment CA  CHASSIS  CUSTOR  CHASSIS  FIREWALL  ACUMENT  CHASSIS  FIREWALL  ACUMENT  CHASSIS  CUSTOR  CONNECTOR  CHASSIS  FIREWALL  ACUMENT  CHASSIS  CUSTOR  CONNECTOR  CHASSIS  FIREWALL  ACUMENT  CHASSIS  CUSTOR  CHASSIS  FIREWALL  ACUMENT  CHASSIS  CUSTOR  CHASSIS  FIREWALL  ACUMENT  CHASSIS  CUSTOR  CHASSIS  FIREWALL  ACUMENT  CHASSIS  CHASSIS  FIREWALL  ACUMENT  CHASSIS  CUSTOR  CHASSIS  FIREWALL  ACUMENT  CHASSIS  CUSTOR  CHASSIS  FIREWALL  ACUMENT  CHASSIS  CUSTOR  CHASSIS  FIREWALL  ACUMENT  CHASSIS  CHASSIS  FIREWALL  ACUMENT  CHASSIS  CHASSIS  FIREWALL  ACUMENT  CHASSIS	Fault code information	3 drive cycle recovery		
Description of component(s)  Location of component(s)  This code relates to a communication issue and not to a specific component.  Diagnostic condition  This diagnostic runs continuously when the ignition is on.  Set condition of fault code  Reset condition of fault code  Reset condition of fault code  Electrical diagram(s)  NAMUX 3 Architecture: 2010 B-Cab  FIREWALL  Aftertreatment CA  WHEEL  DIAGNOSTIC  CONNECTOR  WHEEL  CONNECTOR  PACCAR  DIAGNOSTIC  LECTRONIC  CVSG BUS  ELECTRONIC  CVSG BUS  FIREWALL  ACTUAL OF THE PACCAR  LECTRONIC  CVSG BUS  FIREWALL  ACTUAL OF THE PACCAR  CURRENT  CURRENT  ENERGINE  CURRENT  FIREWALL  ACTUAL OF THE PACCAR  CURRENT  CURRENT  CURRENT  CURRENT  CURRENT  FIREWALL  ACTUAL OF THE PACCAR  ACTUAL OF THE PACCAR  ACTUAL OF THE PACCAR  ACTUAL OF THE PACCAR  CURRENT  CURRENT  CURRENT  CURRENT  FIREWALL  ACTUAL OF THE PACCAR  CURRENT  CURRENT  CURRENT  CURRENT  FIREWALL  ACTUAL OF THE PACCAR  CURRENT  CURRENT  CURRENT  CURRENT  CURRENT  CURRENT  CONNECTOR  CURRENT  CURRENT  CURRENT  CONNECTOR  CURRENT  CURRENT  CONNECTOR  CURRENT		Readiness group – None		
Diagnostic condition  This code relates to a communication issue and not to a specific component.  This diagnostic runs continuously when the ignition is on.  Set condition of fault code  Reset condition of fault code  Electrical diagram(s)  This DTC changes to inactive as soon as the error is no longer detected.  Electrical diagram(s)  NAMUX 3 Architecture: 2010 B-Cab  Diagnostic CAN  TRANSMISSION  Aftertreatment CA  OUT ACT  ACTUATION  TRANSMISSION  TOTAL TOTAL TRANSMISSION  TOTAL TRANSMISTOR  TOTAL TRANSMISSION  TOTAL TRANSMISSION  TOTAL TRANSMISSION		* *		
Diagnostic condition  Set condition of fault code  Reset condition of fault code  Electrical diagram(s)  NAMUX 3 Architecture: 2010 B-Cab  FIREWALL Aftertreatment CA  STEERING DIAGNOSTIC CONNECTOR  DIAGNOSTIC CONNECTOR  DIAGNOSTIC CONNECTOR  PACCAR  DIAGNOSTIC CONNECTOR  PACCAR  DIAGNOSTIC CONNECTOR  PACCAR  DIAGNOSTIC CONNECTOR  Vehicle CAN  Vehicle CAN  Vehicle CAN  Vehicle CAN  CVSG BUS  FUEL ELECTRONIC  CVSG BUS  ELECTRONIC  CUSG BUS  FUEL ELECTRONIC  CUSG BUS	Description of component(s)	This code relates to a communication issue and not to a specific component.		
Set condition of fault code  Reset condition of fault code  Reset condition of fault code  Electrical diagram(s)  NAMUX 3 Architecture: 2010 B-Cab  FIREWALL Aftertreatment CA  FIREWALL AFTERING DIAGNOSTIC  FOR DIAGNOSTIC  CONNECTOR  PACCAR  PACCAR  PACCAR  PACCAR  PACCAR  CONNECTOR  PACCAR  CONNECTOR  CONNECTOR  PACCAR  CONNECTOR  PACCAR  CONNECTOR  PACCAR  CONNECTOR  PACCAR  CONNECTOR  CONNECTOR  PACCAR  CONNECTOR  PACCAR  CONNECTOR  CONNECTOR  CONNECTOR  CONNECTOR  PACCAR  CONNECTOR  CONNECTOR  CONNECTOR  CONNECTOR  CONNECTOR  CONNECTOR  PACCAR  CONNECTOR  CONNECT	Location of component(s)	This code relates to a communication issue and not to a specific component.		
Reset condition of fault code  Electrical diagram(s)  NAMUX 3 Architecture: 2010 B-Cab  FIREWALL Aftertreatment CA  STEERING WHEEL  MCS  Diagnostic CAN  FIREWALL AGRINE  CONNECTOR  PACCAR  DIAGNOSTIC  CONNECTOR  PACCAR  DIAGNOSTIC  CONNECTOR  PACCAR  DIAGNOSTIC  CONNECTOR  PACCAR  PACCAR  DIAGNOSTIC  CVSG BUS  CVSG BUS  FRame CAN  CHASSIS  PRESSURE  CHASSIS  PRESSURE  CHASSIS  PRESSURE  FRAME  CHASSIS  PRESSURE  CHASSIS  PRESSURE  PRESSURE  PRESSURE  PRESSURE  CHASSIS  PRESSURE  PR	Diagnostic condition	This diagnostic runs continuously when the ignition is on.		
Electrical diagram(s)  NAMUX 3 Architecture: 2010 B-Cab  FIREWALL Aftertreatment CA  STEERING WHEEL  MCS  Diagnostic CAN  TRANSMISSION,  DIAGNOSTIC CONNECTOR  PACCAR DISPISION  CVSG BUS  ELECTRONIC CVSG'S  SWITCHES  Frame CAN  CHASSIS  PRESSURE CHASSIS  PRESSURE CHASSIS  PRESSURE CHASSIS				
NAMUX 3 Architecture: 2010 B-Cab    STEERING   Head of the content	Reset condition of fault code	This DTC changes to inactive as soon as the error is no longer detected.		
SPARE INPUTS  SPARE INPUTS  FRONT TAIL TEMP SENSORS  TAIL TEMP SENSORS		STEERING WHEEL  MCS  Diagnostic CAN  TRANSMISSION  ABS  Cluster  Cab CAN  Instrumentation CAN  CVSG BUS  CVSG BUS  CVSG BUS  CVSG BUS  Frame CAN  TAIL/ TEMP SENSOR  SPARE INPUTS  FIREWALL  Aftertreatment CAN  ENGINE  ONTER  ONTER  TAIL/ TEMP SENSOR  TAIL/ TEMP SENSOR  TAIL/ TEMP SENSOR  TAIL/ TEMP SENSOR  TEMP SENSO		











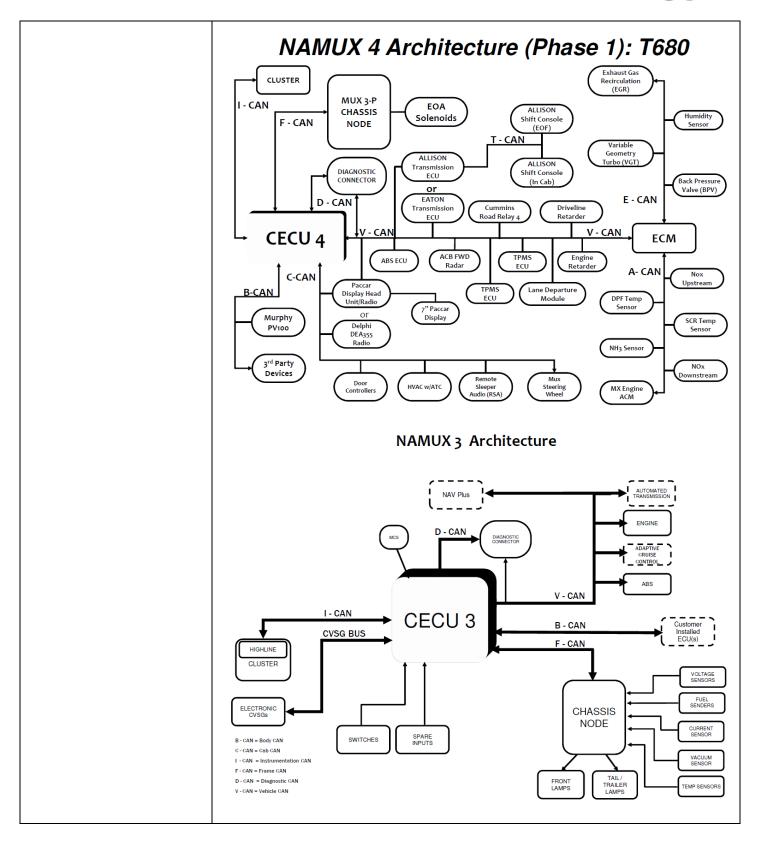
	Use DAVIE to re-che  • If this relate	ne appropriate repairs or com ck for the presence of active	faults. en this issue has been resolved.
	Step 2  Data check  Lookup the t	Step ID 1179b	system
	1 1	checking data test of the spe to step 3	•
	Step 3 Repair or replace co	Step ID 1179c	SRT
	Repair or r	olace the component, also ch	eck for electrical connection and
	Is DTC fault a	ck for the presence of active to active: Proceed to step 4	
	Step 4	nactive: Issue resolved. Clear Step ID 1179d	SRT
	For further assistance	e in diagnosing this issue or f	
Verification Drive Cycle	engine off, and allow		e key to the ON position with the initialize and run diagnostics. o run at idle for 2 minutes.
			Back to Index



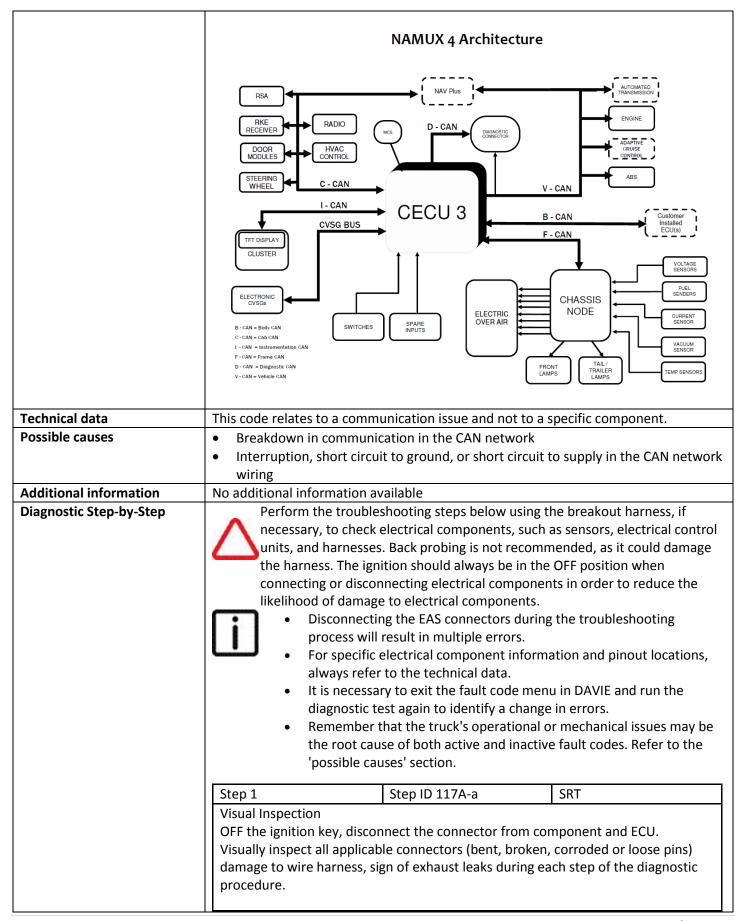
## **U117A**

Code number	U117A
Fault code description	CAN communication - Message (A1SCREGT2) rate too low from emission system
Fault code information	1 trip MIL
	3 drive cycle recovery
	Readiness group – None
	Freeze frame type – Generic
Description of component(s)	This code relates to a communication issue and not to a specific component.
Location of component(s)	This code relates to a communication issue and not to a specific component.
Diagnostic condition	This diagnostic runs continuously when the ignition is on.
Set condition of fault code	
Reset condition of fault code	This DTC changes to inactive as soon as the error is no longer detected.
Electrical diagram(s)	
	NAMUX 3 Architecture: 2010 B-Cab  FIREWALL  Aftertreatment CAN  Diagnostic CAN  TRANSMISSION  ABS  Connection  Connection  PACCAR Display  Vehicle CAN  Vehicle CAN  CVSG BUS  SPARE INPUTS  FIREWALL  FRONT  TAIL  TEMP SENSORS  FIREWALL  FRONT  TAIL  TEMP SENSORS  TEMP SENSORS  FIREWALL  FRONT  TAIL  TEMP SENSORS  TEMP SENSO











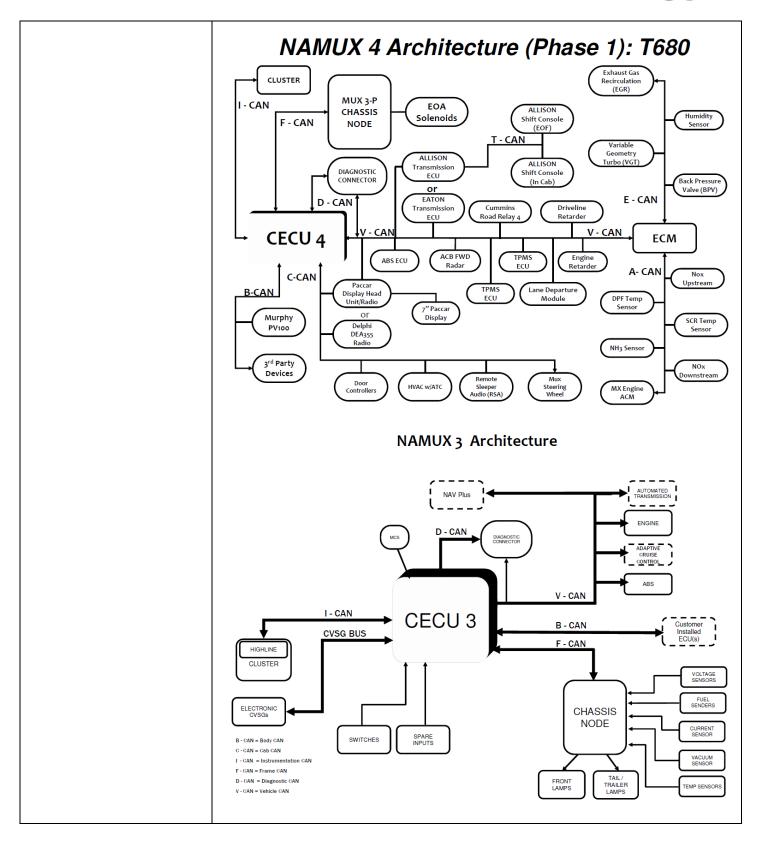
		of any of the above?	
	No: Proceed	•	
		he appropriate repairs or com	•
	Use DAVIE to re-che	eck for the presence of active f	aults.
	If this related fault is no longer active, then this issue has been res		
	If this relate	ed fault is still active, Proceed t	o step 2
	Step 2	Step ID 117A-b	SRT
	Data check		
	<ul> <li>Lookup the</li> </ul>	technical data of the specific s	ystem
	<ul> <li>Perform the checking data test of the specific component</li> <li>Is test pass?</li> </ul>		
	No: Proceed	d to step 3	
	Yes : Procee	ed to step4	
	Step 3	Step ID 117A-c	SRT
	Repair or replace co	mponent	
	Repair or re	place the component, also che	eck for electrical connection and
	wiring harn	ess.	
	Reconnect t	he connector	
	ON the ignit	tion key	
	Use DAVIE to re-che	eck for the presence of active fa	aults:
	Is DTC fault active: Proceed to step 4		
	Is DTC fault inactive: Issue resolved. Clear inactive fault.		
	Step 4	Step ID 117A-d	SRT
	For further assistan	ce in diagnosing this issue or fo	or confirmation prior to the
	replacement of suspect components, contact the Engine Support Call Center at		
	1-800-477-0251.		
Verification Drive Cycle	To verify the repair:		
			n with the engine off, and allow 10
	-	m to initialize and run diagnos	
	With the brakes set,	start the engine and allow it to	run at idle for 2 minutes
			Dealtha Index
			Back to Index



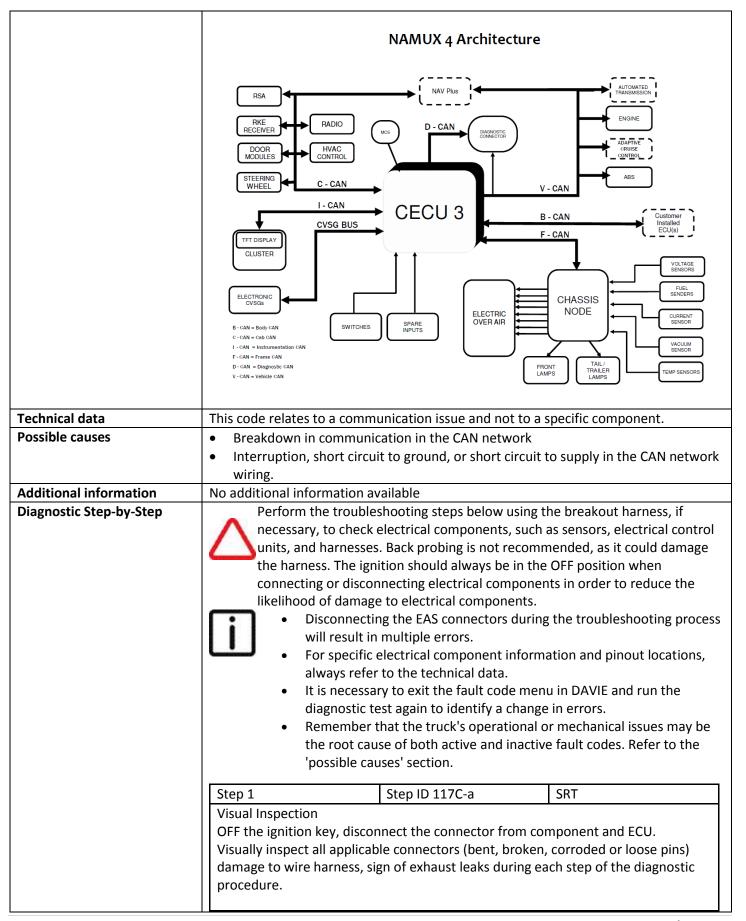
## **U117C**

Code number	U117C		
Fault code description	CAN communication - Message (A1SCREGT2) out of range - Intermediate gas		
	temperature from emission system		
Fault code information	1 trip MIL		
	3 drive cycle recovery		
	Readiness group – None		
	Freeze frame type – Generic		
Description of component(s)	This code relates to a communication issue and not to a specific component.		
Location of component(s)	This code relates to a communication issue and not to a specific component.		
Diagnostic condition	This diagnostic runs continuously when the ignition is on.		
Set condition of fault code	, ,		
Reset condition of fault code	This DTC changes to inactive as soon as the error is no longer detected.		
Electrical diagram(s)			
	NAMUX 3 Architecture: 2010 B-Cab		
	FIREWALL Aftertreatment CAN		
	Diagnostic CAN		
	STEERING WHEEL		
	MCS ABS ABS CRUSE CRUSE		
	DIAGNOSTIC CONNECTOR		
	PACCAR PACCAR Engine CAN   Engine CAN    Figure 1. The second of the se		
	Cluster Cab CAN Display VGT Actuator		
	Cluster		
	Instrumentation CAN Vehicle CAN Vehicle CAN		
	VOLTAGE		
	CVSG BUS SENSORS		
	FUEL SENDERS		
	ELECTRONIC CVSG's CURRENT SENSOR		
	SWITCHES Frame CAN CHASSIS PRESSURE		
	NODE SENSORS		
	SPARE VACUUM SENSOR		
	INPUTS		
	FRONT TAILER SENSORS		
	FIREWALL LAMPS LAMPS		









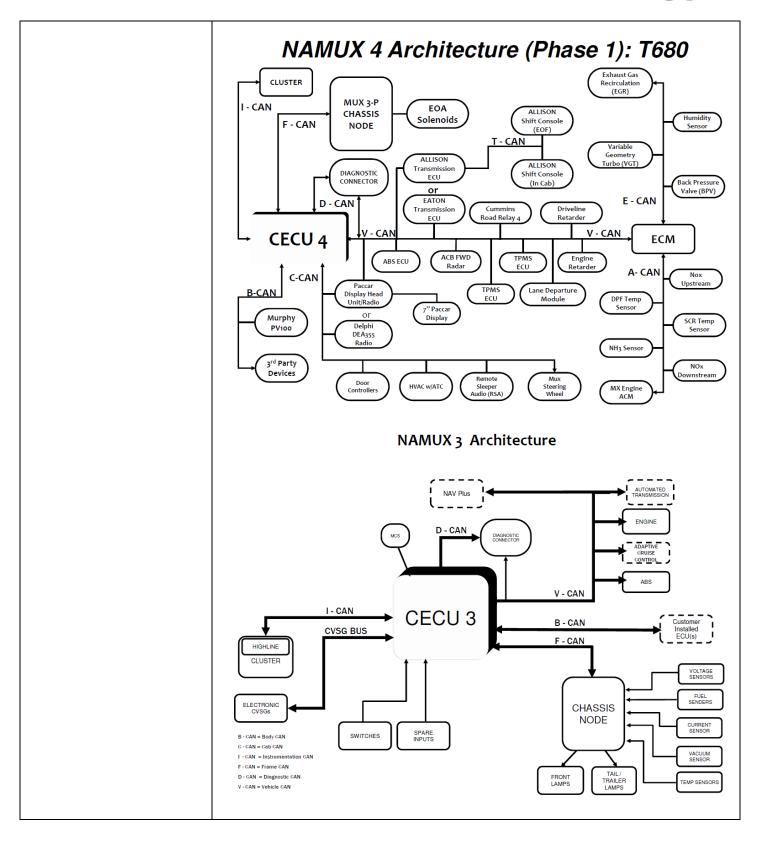


	TT		
		<ul><li>Was there evidence of any of the above?</li><li>No: Proceed to step 2.</li></ul>	
		·	
	Yes: Make the appropriate repairs or component replacements.		
	Use DAVIE to re-ch	neck for the presence of active	faults.
		•	en this issue has been resolved.
	1 1	ted fault is still active, Proceed	
		·	· .
	Step 2	Step ID 117C-b	SRT
	Data check		
	<ul> <li>Lookup the technical data of the specific system</li> <li>Perform the checking data test of the specific component</li> </ul>		system
			cific component
	Is test pass?		
	· · · · · · · · · · · · · · · · · · ·	ad to atom 2	
		ed to step 3	
	• Yes : Proce	eed to step4	
	Step 3	Step ID 117C-c	SRT
	Repair or replace of		3.1.
		•	eck for electrical connection and
	wiring har	•	
	Reconnect	the connector	
	ON the ign	ition key	
	1 1	neck for the presence of active	faults:
	Is DTC fault active: Proceed to step 4		
	Is DTC fault inactive: Issue resolved. Clear inactive fault.		
	Stop 4	Step ID 117C-d	SRT
	Step 4	· · · · · · · · · · · · · · · · · · ·	
		nce in diagnosing this issue or f spect components, contact the	•
	1-800-477-0251.	spect components, contact the	Engine Support can center at
Verification Drive Cycle	To verify the repair:		<u> </u>
•			n with the engine off, and allow 10
	seconds for the syst	em to initialize and run diagno	stics
	With the brakes set,	, start the engine and allow it to	o run at idle for 2 minutes
			5
			Back to Index

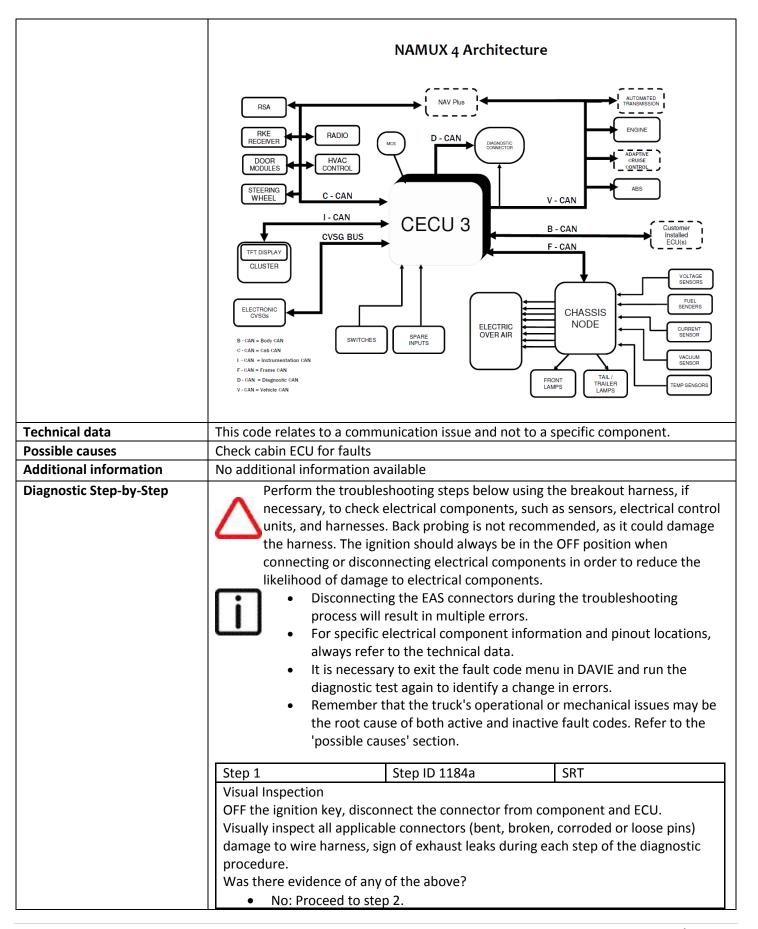


Code number	U1184		
Fault code description	CAN communication - Message (CCVS) out of range - Cruise Control enable switch		
	from vehicle controller		
Fault code information	1 trip MIL		
	3 drive cycle recovery		
	Readiness group – None		
	Freeze frame type – Generic		
Description of component(s)	This code relates to a communication issue and not to a specific component.		
Location of component(s)	This code relates to a communication issue and not to a specific component.		
Diagnostic condition	This diagnostic runs continuously when the ignition is on.		
Set condition of fault code			
Reset condition of fault code	This DTC changes to inactive as soon as the error is no longer detected.		
Electrical diagram(s)			
	NAMUX 3 Architecture: 2010 B-Cab		
	FIREWALL Aftertreatment CAN		
	Diagnostic CAN		
	STEERING WHEEL TRANSMISSION, ENGINE		
	MCS ABS ABS GRUISE I		
	DIAGNOSTIC CONNECTOR		
	PACCAR PACCAR Engine CAN ▼		
	Display		
	Cluster Cab CAN Actuator		
	Instrumentation CAN Vehicle CAN		
	CECU 3		
	CVSG BUS SENSORS		
	FUEL SENDERS		
	ELECTRONIC CVSG's CURRENT		
	SWITCHES Frame CAN CHASSIS CHASSIS CHASSIS		
	SWITCHES Frame CAN NODE PRESSURE SENSORS		
	SPARE VACUUM SPANOOD		
	SPARE INPUTS		
	FRONT TAIL TEMP SENSORS		
	FIREWALL LAMPS LAMPS		









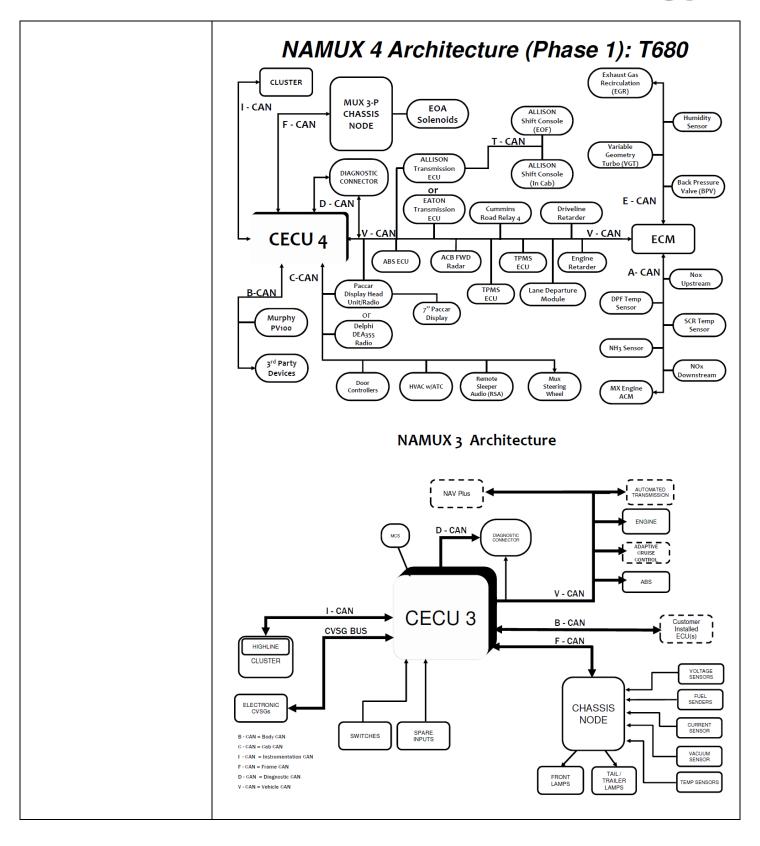


	Yes: Make	the appropriate repairs or cor	mponent replacements.		
	Use DAVIE to re-check for the presence of active faults.				
	If this rela	ted fault is no longer active, th	en this issue has been resolved.		
		ted fault is still active, Proceed			
	Step 2	Step ID 1184b	SRT		
	Data check				
	<ul> <li>Lookup th</li> </ul>	e technical data of the specific	system		
	<ul> <li>Perform the</li> </ul>	ne checking data test of the sp	ecific component		
	Is test pass?	Is test pass?			
	No: Proce	ed to step 3			
	Yes : Proce	eed to step4			
	Step 3	Step ID 1184c	SRT		
	Repair or replace component				
	<ul> <li>Repair or replace the component, also check for electrical connection wiring harness.</li> </ul>				
	Reconnect	t the connector			
	ON the ign	nition key			
	Use DAVIE to re-cl	neck for the presence of active	faults:		
	Is DTC fault active: Proceed to step 4				
	Is DTC fau	lt inactive: Issue resolved. Clea	r inactive fault.		
	<u> </u>				
	Step 4	Step ID 1184d	SRT		
	For further assistance in diagnosing this issue or for confirmation prior t				
	replacement of suspect components, contact the Engine Support Call Center at				
	1-800-477-0251.	, , , , , , , , , , , , , , , , , , , ,	3 ,,,		
Verification Drive Cycle	To validate the repa	air, with the brakes set, turn th	e key to the ON position with the		
-	engine off, and allo	w 10 seconds for the system to	o initialize and run diagnostics.		
	With the brakes set, start the engine and allow it to run at idle for 2 minutes.				
			Back to Index		

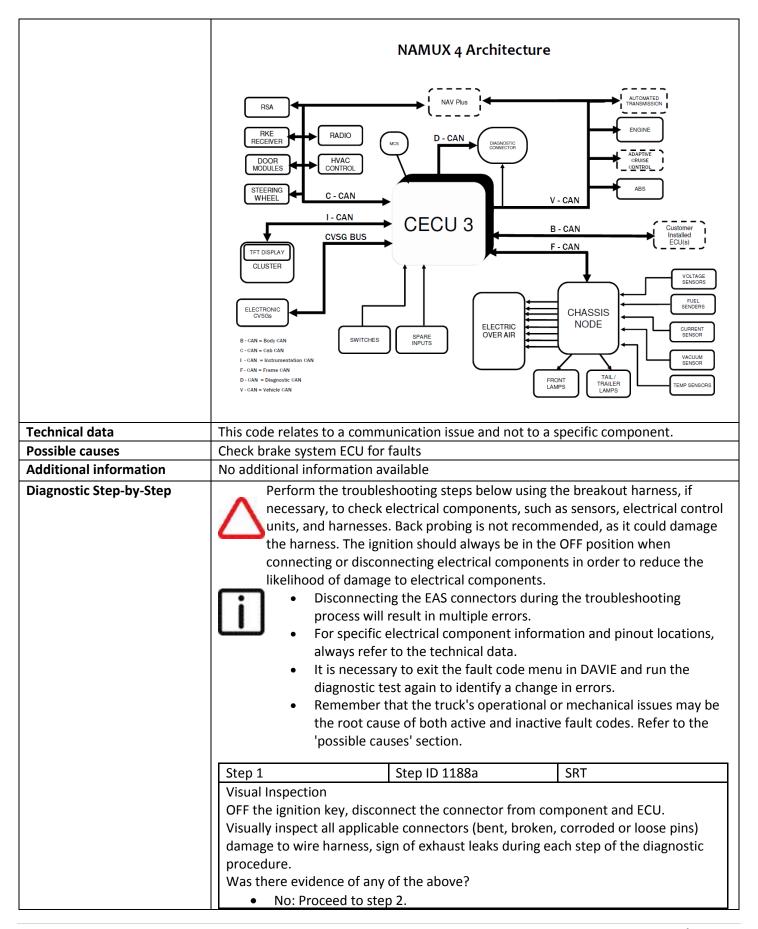


Code number	U1188
Fault code description	CAN communication - Message (EBC2) out of range - Front axle speed from brake
	system
Fault code information	3 drive cycle recovery
	Readiness group – None
	Freeze frame type – Generic
Description of component(s)	This code relates to a communication issue and not to a specific component.
Location of component(s)	This code relates to a communication issue and not to a specific component.
Diagnostic condition	This diagnostic runs continuously when the ignition is on.
Set condition of fault code	
Reset condition of fault code	This DTC changes to inactive as soon as the error is no longer detected.
Electrical diagram(s)	
	NAMUX 3 Architecture: 2010 B-Cab  FIREWALL  Aftertreatment CAN  ITAMISMISSION, ENGINE  OUNTECTOR  PACCAR  Instrumentation CAN  CVSG BUS  SPARE INPUTS  After-treatment DCU  Vehicle CAN  Vehicle CAN  Vehicle CAN  FIREWALL  After-treatment DCU  VGT Actuator  VGT Actuator









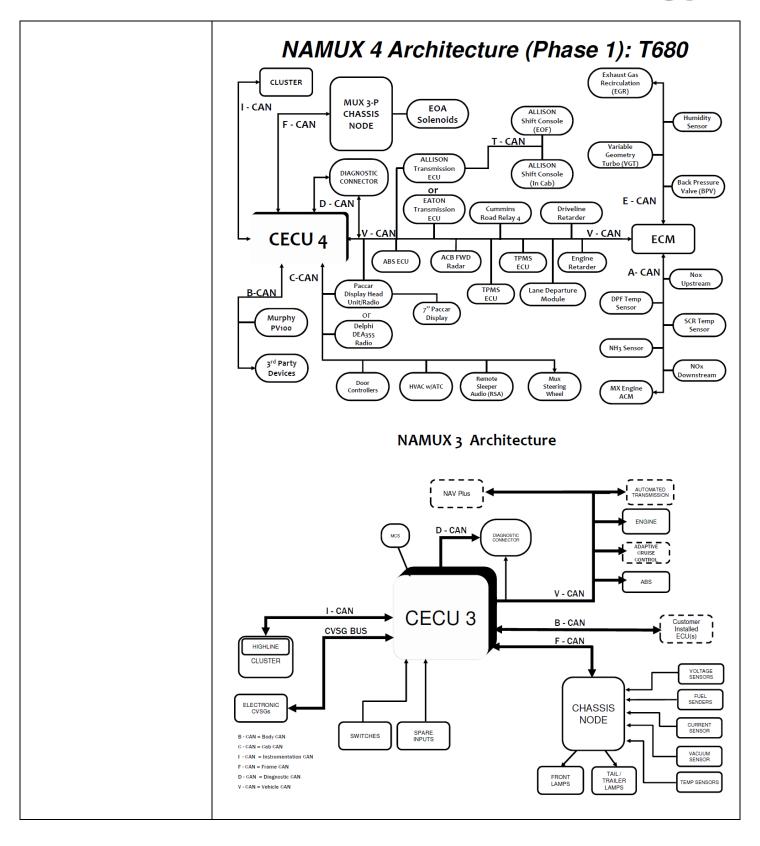


	<ul> <li>Use DAVIE to re-check for the presence of active faults.</li> <li>If this related fault is no longer active, then this issue has been resolved.</li> <li>If this related fault is still active, Proceed to step 2</li> </ul>			
			·	
	Step 2	Step ID 1188b	SRT	
	Data check			
	Lookup the technical data of the specific system			
	Perform	the checking data test of the spe	ecific component	
	Is test pass?			
		eed to step 3		
	Yes : Proc	ceed to step4		
	Step 3	Step ID 1188c	SRT	
	Repair or replace	<u> </u>	1 9444	
		replace the component, also ch	neck for electrical connection and	
	Reconnect the connector			
	<ul> <li>ON the ignition key</li> <li>Use DAVIE to re-check for the presence of active faults:</li> </ul>			
	Is DTC fault active: Proceed to step 4			
	Is DTC far	ult inactive: Issue resolved. Clear	r inactive fault.	
	Step 4	Step ID 1188d	SRT	
For further assistance in diagnosing this issue or for confirma				
	replacement of suspect components, contact the Engine Support Call Center at			
	1-800-477-0251.			
Verification Drive Cycle	· ·		e key to the ON position with the	
	engine off, and allow 10 seconds for the system to initialize and run diagnostics.  With the brakes set, start the engine and allow it to run at idle for 2 minutes.			
	vvitn the brakes se	t, start the engine and allow it t	o run at luie for 2 minutes.	
	Ba			

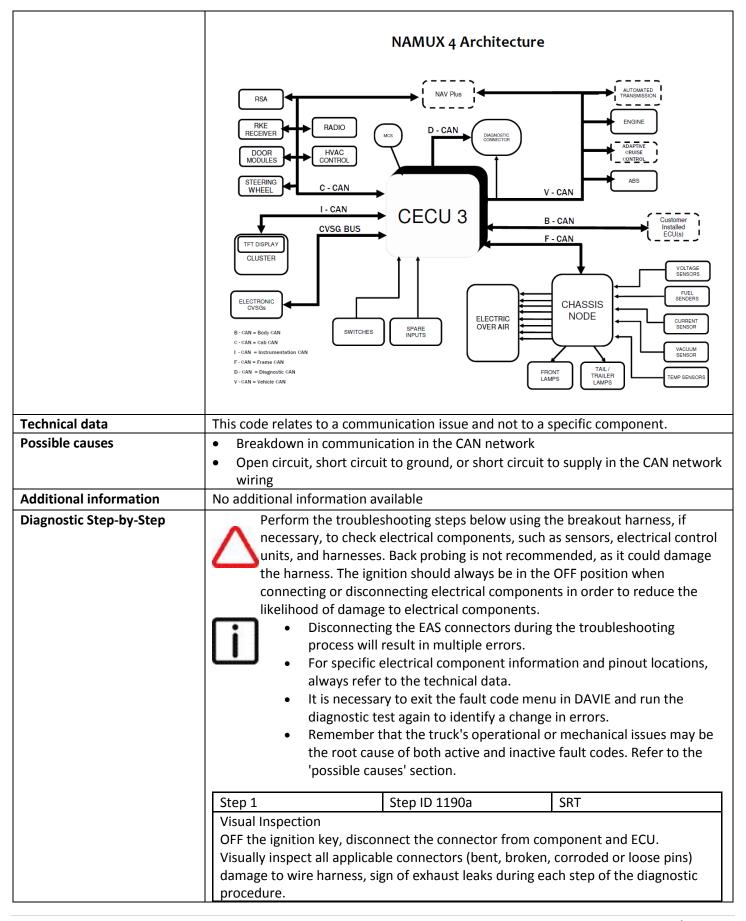


Fault code description  Fault code information  Gan communication - Message (ERC1_DR) rate too low from retarder  3 drive cycle recovery Readiness group - None Freeze frame type - Generic  Description of component(s)  Location of component(s)  This code relates to a communication issue and not to a specific component.  Diagnostic condition  Set condition of fault code  Reset condition of fault code  Reset condition of fault code  Electrical diagram(s)  NAMUX 3 Architecture: 2010 B-Cab  FIREWALL Aftertreatms  MCS  Diagnostic CAN  ABS  Diagnostic CAN  ABS  Diagnostic CAN  Diagnostic CA	
Readiness group – None Freeze frame type – Generic  Description of component(s)  Location of component(s)  Diagnostic condition  Set condition of fault code  Reset condition of fault code  Electrical diagram(s)  This DTC changes to inactive as soon as the error is no longer detected.  NAMUX 3 Architecture: 2010 B-Cab  FIREWALL Aftertreatments  Oliagnostic CAN  Diagnostic CAN  Dia	
Freeze frame type – Generic  Description of component(s)  Location of component(s)  This code relates to a communication issue and not to a specific component.  This code relates to a communication issue and not to a specific component.  This code relates to a communication issue and not to a specific component.  This diagnostic runs continuously when the ignition is on.  Set condition of fault code  Reset condition of fault code  This DTC changes to inactive as soon as the error is no longer detected.  Electrical diagram(s)  NAMUX 3 Architecture: 2010 B-Cab  FIREWALL Aftertreatments  Aftertreatments  Aftertreatments  Diagnostic CAN  Diagnostic CAN  Diagnostic CAN  Diagnostic CAN  AUTO  TRANSMISSION  Aftertreatments  Aftertreatments  Diagnostic CAN  Diagnostic CAN  Diagnostic CAN  Diagnostic CAN  Diagnostic CAN  Diagnostic CAN  Auto  TRANSMISSION  Aftertreatments  Diagnostic CAN  D	
Description of component(s)  Location of component(s)  This code relates to a communication issue and not to a specific component.  This code relates to a communication issue and not to a specific component.  This diagnostic runs continuously when the ignition is on.  Set condition of fault code  Reset condition of fault code  Electrical diagram(s)  This DTC changes to inactive as soon as the error is no longer detected.  STEERING Diagnostic CAN  Diagnostic	
Location of component(s)  Diagnostic condition  This diagnostic runs continuously when the ignition is on.  Set condition of fault code  Reset condition of fault code  This DTC changes to inactive as soon as the error is no longer detected.  Electrical diagram(s)  NAMUX 3 Architecture: 2010 B-Cab  STEERING WHEEL  Diagnostic CAN  Dia	
Diagnostic condition Set condition of fault code Reset condition of fault code Reset condition of fault code Electrical diagram(s)  NAMUX 3 Architecture: 2010 B-Cab  STEERING WHEEL  Diagnostic CAN  Diagnost	
Set condition of fault code  Reset condition of fault code  This DTC changes to inactive as soon as the error is no longer detected.  Electrical diagram(s)  NAMUX 3 Architecture: 2010 B-Cab  STEERING WHEEL  Diagnostic CAN	
Reset condition of fault code  This DTC changes to inactive as soon as the error is no longer detected.  Electrical diagram(s)  NAMUX 3 Architecture: 2010 B-Cab  FIREWALL Aftertreatment of the property of t	
Electrical diagram(s)  NAMUX 3 Architecture: 2010 B-Cab  FIREWALL Aftertreatment of the property of the proper	
NAMUX 3 Architecture: 2010 B-Cab  STEERING WHEEL  MCS  Diagnostic CAN  Diagnos	
CECU 3  Vehicle CAN  CVSG BUS  CVSG BUS  Frame CAN  CHASSIS  NODE	









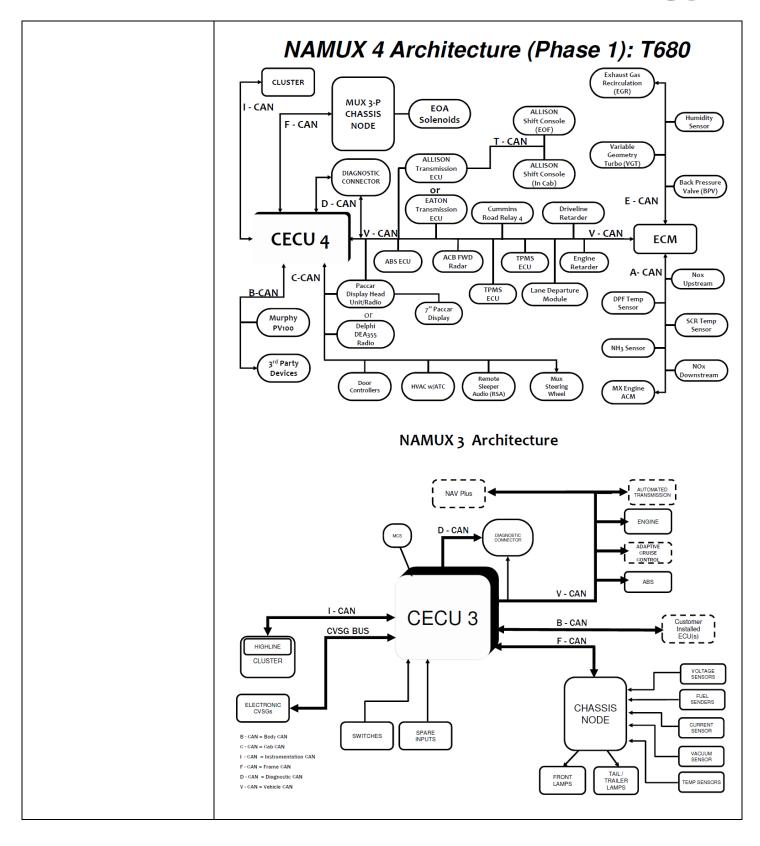


	<ul><li>No: Proceed</li><li>Yes: Make the</li></ul>	of any of the above? I to step 2. The appropriate repairs or comick for the presence of active for the presence of the presence of active for the presence of the pr	·
		d fault is no longer active, the d fault is still active, Proceed t	en this issue has been resolved. to step 2
	Step 2	Step ID 1190b	SRT
		technical data of the specific s checking data test of the spe	
	No: Proceed     Yes : Proceed	·	
	Step 3	Step ID 1190c	SRT
	wiring harne  Reconnect t  ON the ignit  Use DAVIE to re-che  Is DTC fault	place the component, also cho ess. he connector	
		Step ID 1190d ce in diagnosing this issue or forect components, contact the	SRT or confirmation prior to the Engine Support Call Center at
Verification Drive Cycle	To validate the repair engine off, and allow		e key to the ON position with the initialize and run diagnostics. o run at idle for 2 minutes.
			Back to Index

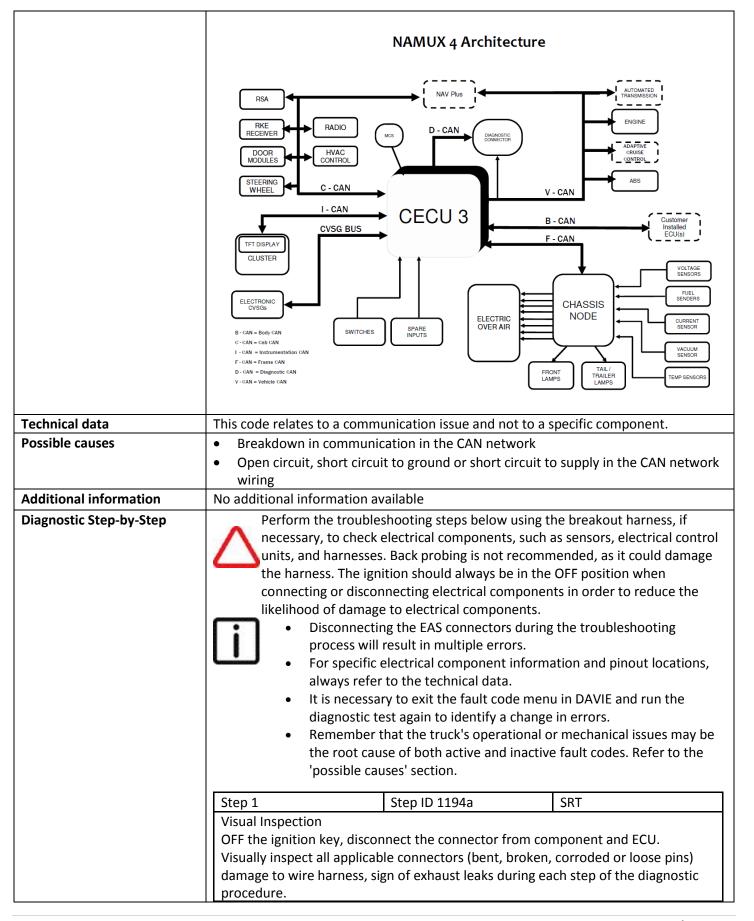


Code number	U1194
Fault code description	CAN Communication – Message (DD) rate too low from vehicle controller
Fault code information	3 drive cycle recovery
	Readiness group – None
	Freeze frame type – Generic
Description of component(s)	This code relates to a communication issue and not to a specific component.
Location of component(s)	This code relates to a communication issue and not to a specific component.
Diagnostic condition	This diagnostic runs continuously when the ignition is on.
Set condition of fault code	
Reset condition of fault code	This DTC changes to inactive as soon as the error is no longer detected.
Electrical diagram(s)	
	Cluster  Cluster  Cab CAN  Diagnostic CAN  Diagnostic CAN  Diagnostic CAN  TRANSMISSION  ABS  DIAGNOSTIC  CONNECTOR  PACCAR Display  Vehicle CAN  Vehicle CAN  CVSG BUS  CVSG BUS  Frame CAN  Frame CA









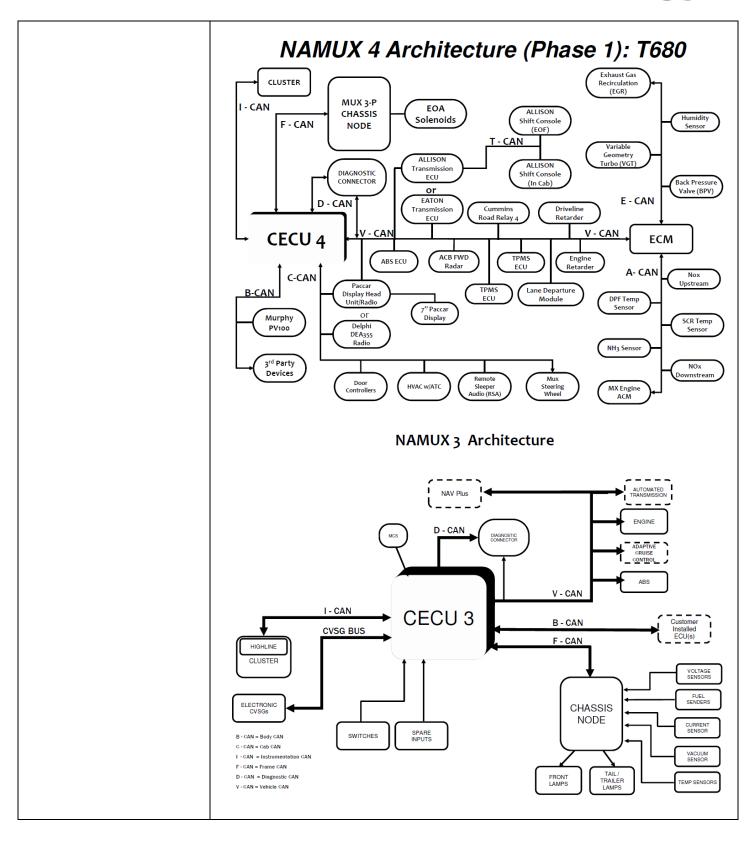


	Was there eviden	ce of any of the above?	
	No: Proceed to step 2.		
	Yes: Make	e the appropriate repairs or cor	mponent replacements.
	Use DAVIE to re-c	heck for the presence of active	faults.
	If this rela	ited fault is no longer active, th	en this issue has been resolved.
		ited fault is still active, Proceed	
	-		
	Step 2	Step ID 1194b	SRT
	Data check		
	<ul> <li>Lookup the technical data of the specific system</li> </ul>		
	Perform the checking data test of the specific component		
	Is test pass?		
	No: Proce	ed to step 3	
	Yes : Proc	eed to step4	
	Step 3	Step ID 1194c	SRT
	Repair or replace	component	
	<ul> <li>Repair or replace the component, also check for electrical connection and wiring harness.</li> </ul>		
	Reconnect the connector		
	ON the ignition key		
	<ul><li>Use DAVIE to re-check for the presence of active faults:</li><li>Is DTC fault active: Proceed to step 4</li></ul>		
	Is DTC fau	Ilt inactive: Issue resolved. Clea	r inactive fault.
	[ C: 4		COT
	Step 4	Step ID 1194d	SRT
	For further assistance in diagnosing this issue or for confirmation prior to the		•
	1-800-477-0251.	ispect components, contact the	e Engine Support Call Center at
Varification Daire Costs		ال المالية المساورة والمالية المالية المالية المالية المالية المالية	a kay ta tha ON na sitis a with the
Verification Drive Cycle	-	air, with the brakes set, turn th w 10 seconds for the system to	e key to the ON position with the
		t, start the engine and allow it	_
	vvitil tile blakes se	, start the engine and anow it	to run at fale for 2 fillilates.
			Back to Index

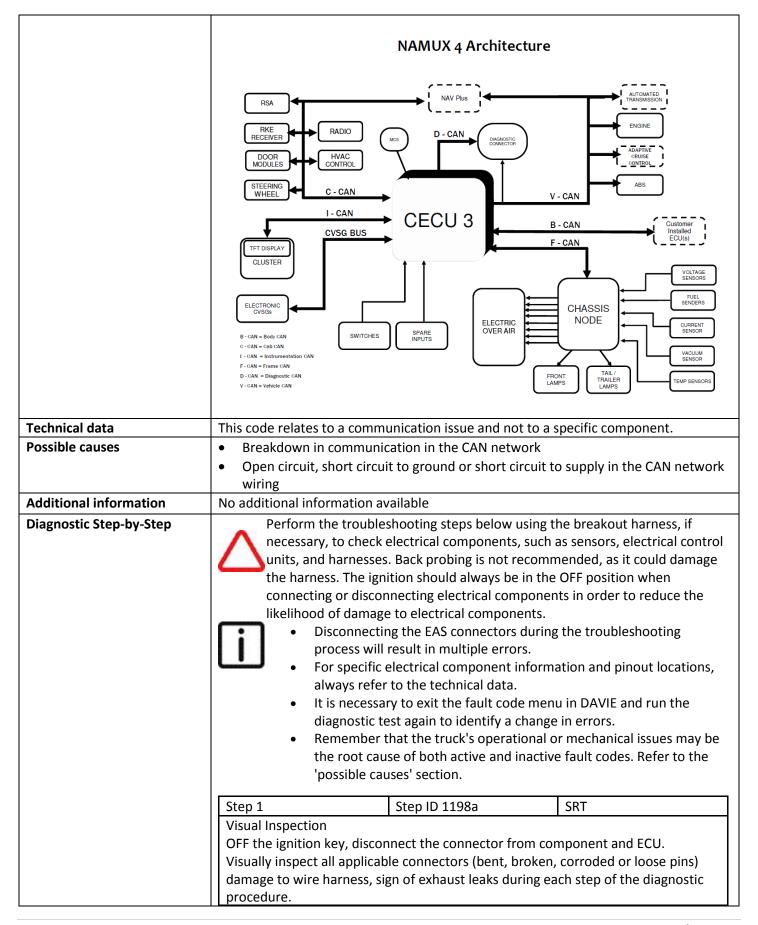


Code number	U1198		
Fault code description	CAN Communication – Message (EBC2) rate too low from brake system		
Fault code information	3 drive cycle recovery		
	Readiness group – None		
	Freeze frame type – Generic		
Description of component(s)	This code relates to a communication issue and not to a specific component.		
Location of component(s)	This code relates to a communication issue and not to a specific component.		
Diagnostic condition	This diagnostic runs continuously when the ignition is on.		
Set condition of fault code			
Reset condition of fault code	This DTC changes to inactive as soon as the error is no longer detected.		
Electrical diagram(s)			
	NAMUX 3 Architecture: 2010 B-Cab  FIREWALL  Aftertreatment CAN  INDIAMOSTIC CONNECTOR  PACCAR Display  Vehicle CAN  Vehicle CAN  Vehicle CAN  VolTage Sensons  Sensons  SPARE INPUTS  FIREWALL  FIREWALL  FRONT TAIL TAIL TEMP SENSORS  FIREWALL  FRONT TAIL TRAILER LAMPS  TAIL TAIL TEMP SENSORS		









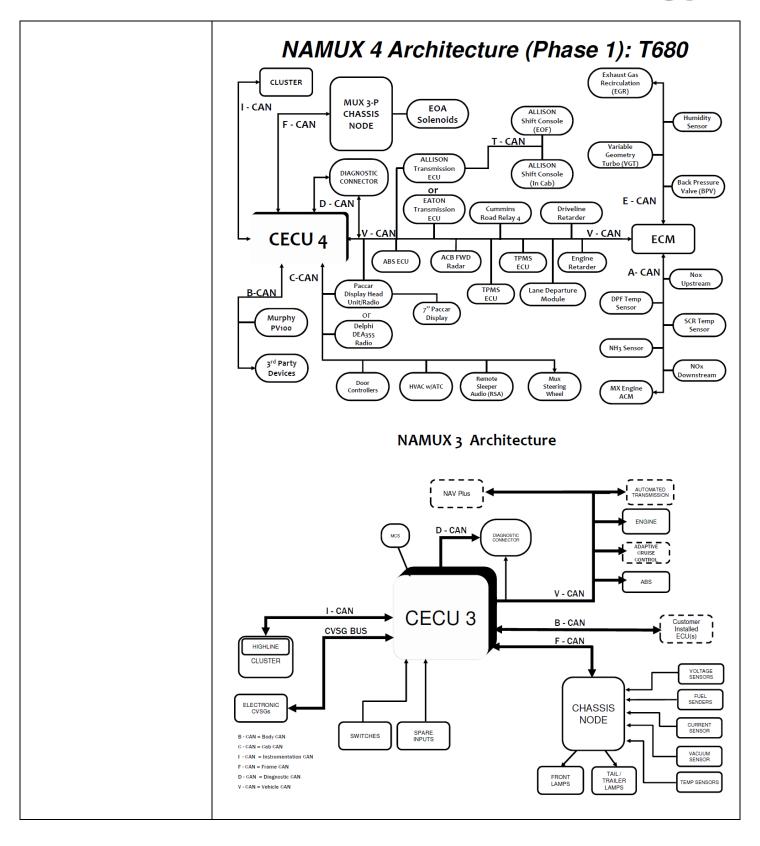


	11		
	Was there evidence of any of the above?		
	No: Proceed to step 2.		
		the appropriate repairs or com	· ·
	Use DAVIE to re-ch	eck for the presence of active t	faults.
	<ul> <li>If this relat</li> </ul>	ed fault is no longer active, the	en this issue has been resolved.
	<ul> <li>If this relat</li> </ul>	ed fault is still active, Proceed	to step 2
	Step 2	Step ID 1198b	SRT
	Data check		
	Lookup the technical data of the specific system		system
	Perform the checking data test of the specific component		
	Is test pass?		
	No: Proceed to step 3		
	Yes : Proceed to step4		
			•
	Step 3	Step ID 1198c	SRT
	Repair or replace of	omponent	
	Repair or replace the component, also check for electrical connection and		eck for electrical connection and
	wiring harness.		
	Reconnect the connector		
	ON the ignition key		
	Use DAVIE to re-check for the presence of active faults:		
	Is DTC fault active: Proceed to step 4		
	Is DTC fault inactive: Issue resolved. Clear inactive fault.		
	Step 4	Step ID 1198d	SRT
	For further assistar	nce in diagnosing this issue or f	or confirmation prior to the
	replacement of sus	pect components, contact the	Engine Support Call Center at
	1-800-477-0251.		
Verification Drive Cycle	To validate the repa	ir, with the brakes set, turn the	key to the ON position with the
	engine off, and allow	v 10 seconds for the system to	initialize and run diagnostics.
	With the brakes set,	start the engine and allow it to	o run at idle for 2 minutes.
			Back to Index

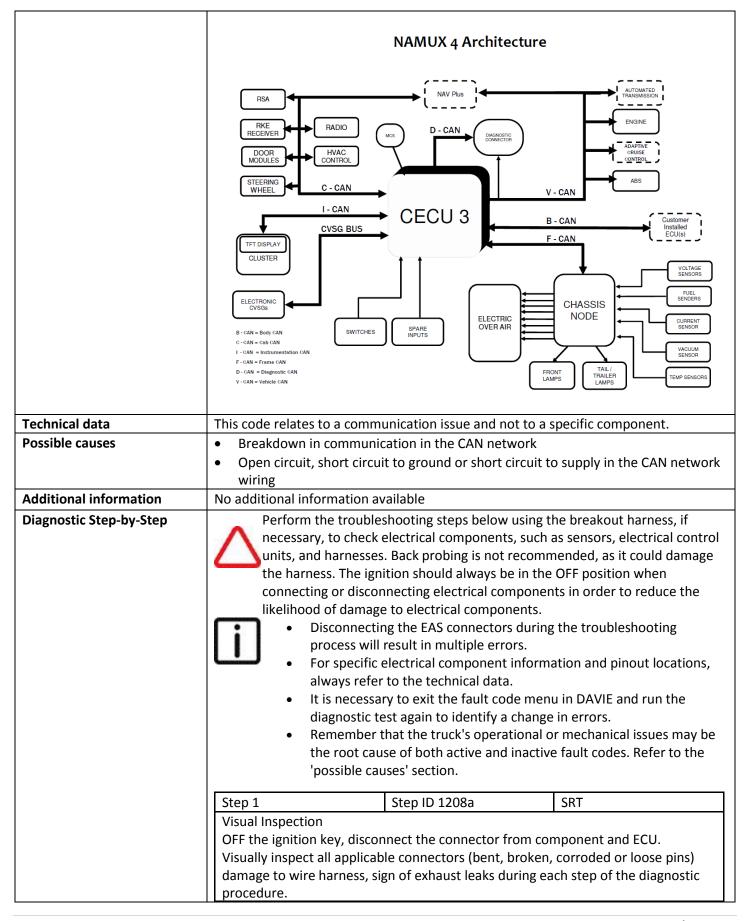


Code number	U1208		
Fault code description	CAN Communication – Message (PTO) rate too low from vehicle controller		
Fault code information	3 drive cycle recovery		
	Readiness group – None		
	Freeze frame type – Generic		
Description of component(s)	This code relates to a communication issue and not to a specific component.		
Location of component(s)	This code relates to a communication issue and not to a specific component.		
Diagnostic condition	This diagnostic runs continuously when the ignition is on.		
Set condition of fault code			
Reset condition of fault code	This DTC changes to inactive as soon as the error is no longer detected.		
Electrical diagram(s)			
	NAMUX 3 Architecture: 2010 B-Cab  FIREWALL  Aftertreatment CAN  I AUTO  ITRANSMISSION,  ITRANS		









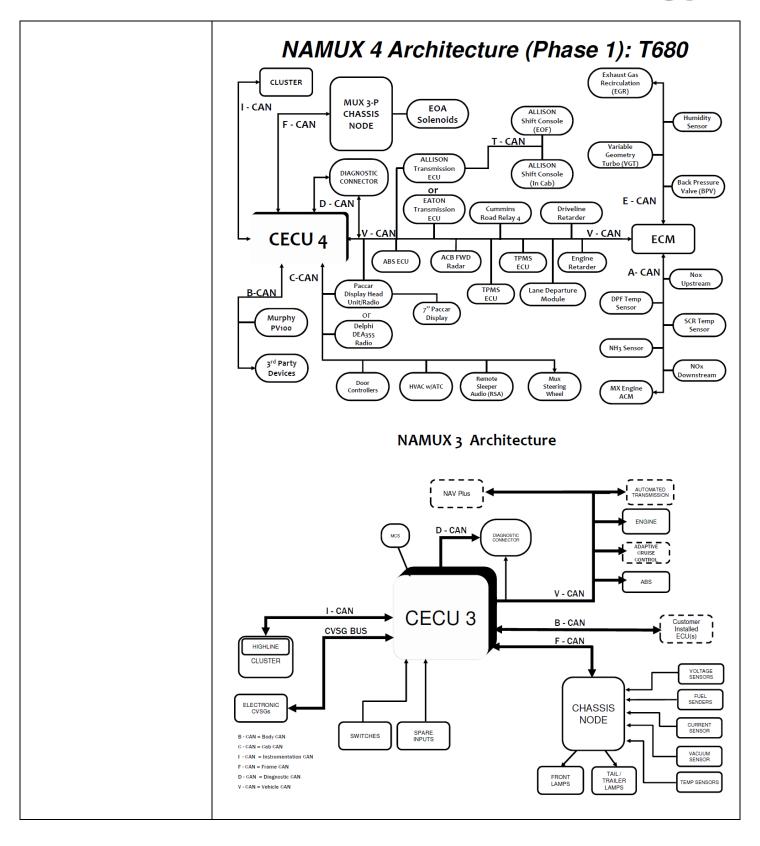


	Was there evidence	of any of the above?		
	No: Proceed to step 2.			
	Yes: Make t	he appropriate repairs or con	nponent replacements.	
	Use DAVIE to re-che	eck for the presence of active	faults.	
	If this relate	ed fault is no longer active, the	en this issue has been resolved.	
	If this relate	ed fault is still active, Proceed	to step 2	
	Step 2	Step ID 1208b	SRT	
	Data check			
	<ul> <li>Lookup the technical data of the specific system</li> </ul>		system	
	Perform the checking data test of the specific component			
	Is test pass?			
	No: Proceed to step 3			
	Yes : Proceed to step4			
	Step 3	Step ID 1208c	SRT	
	Repair or replace co	mponent		
	Repair or replace the component, also check for electrical connection and			
	wiring harness.			
	Reconnect the connector			
	_	ON the ignition key		
	Use DAVIE to re-check for the presence of active faults:			
	Is DTC fault active: Proceed to step 4			
	Is DTC fault inactive: Issue resolved. Clear inactive fault.			
	Step 4	Step ID 1208d	SRT	
		ce in diagnosing this issue or	•	
	11 .	replacement of suspect components, contact the Engine Support Call Center at		
	1-800-477-0251.			
Verification Drive Cycle	•		e key to the ON position with the	
	_		initialize and run diagnostics.	
	With the brakes set,	start the engine and allow it t	o run at idle for 2 minutes.	
			B 1 1 1 1	
			Back to Index	

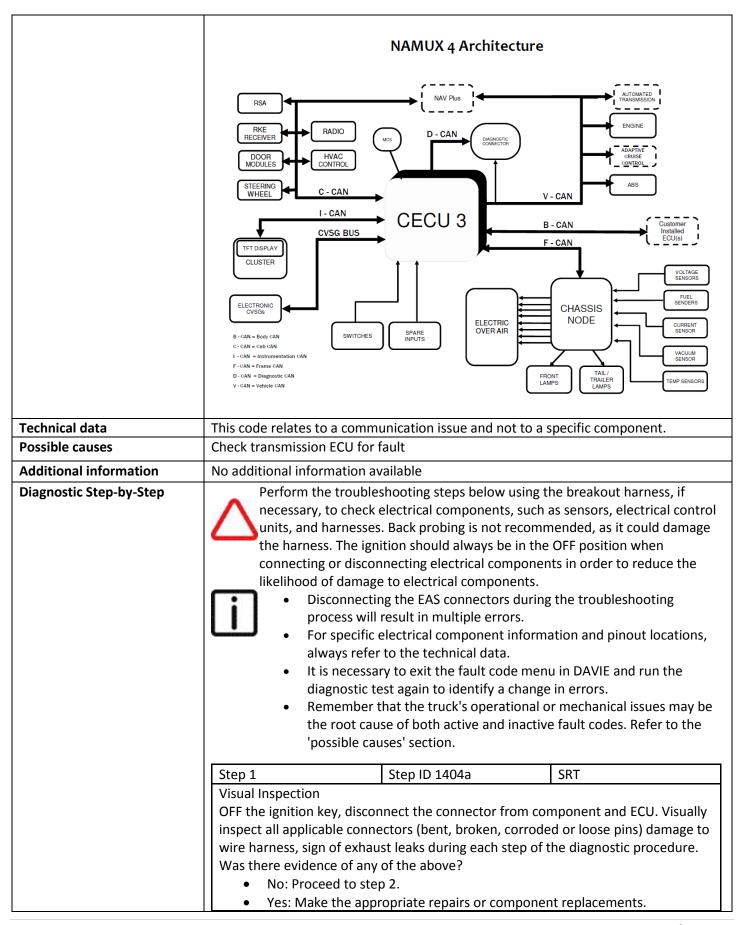


Code number	U1404		
Fault code description	CAN communication - Message (ETC2) out of range - current gear from transmission		
	system		
Fault code information	3 drive cycle recovery		
	Readiness group – None		
	Freeze frame type – Generic		
Description of component(s)	This code relates to a communication issue and not to a specific component.		
Location of component(s)	This code relates to a communication issue and not to a specific component.		
Diagnostic condition	This diagnostic runs continuously when the ignition is on.		
Set condition of fault code			
Reset condition of fault code	This DTC changes to inactive as soon as the error is no longer detected.		
Electrical diagram(s)			
	NAMUX 3 Architecture: 2010 B-Cab  FIREWALL  STEERING WHEEL  MCS  DIAGNOSTIC CONNECTOR  PACCAR DISPLAY  Vehicle CAN  Vehicle CAN  Vehicle CAN  CVSG BUS  SPARE INPUTS  FIREWALL  FRONT  TAIL/ TEMP SENSORS  FIREWALL  Aftertreatment CAN  Aftertreatment CAN  Aftertreatment CAN  Aftertreatment CAN  CURRENT SENSOR  FUEL CURRENT SENSOR  FIREWALL  FRONT  TAIL/ TEMP SENSORS  FIREWALL  FRONT  TAIL/ TEMP SENSORS		











	Use DAVIE to re-check for the presence of active faults.  • If this related fault is no longer active, then this issue has been resolved.  • If this related fault is still active, Proceed to step 2		
	Step 2	Step ID 1404b	SRT
	Data check	· ·	
	Lookup the	technical data of the specific	system
		e checking data test of the spe	cific component
	Is test pass?		
	No: Procee	•	
	Yes : Proce	ed to step4	
	Step 3 Step ID 1404c SRT		
	Repair or replace component  Repair or replace the component, also check for electrical connection and wiring harness.		
		the connector	
	ON the ignition key  Use DAVIS to re-check for the presence of active faults:		
	Use DAVIE to re-check for the presence of active faults:  • Is DTC fault active: Proceed to step 4		
	<ul> <li>Is DTC fault active: Proceed to step 4</li> <li>Is DTC fault inactive: Issue resolved. Clear inactive fault.</li> </ul>		
	13 27 6 1441	is DTC fault illactive. Issue resolved. Clear illactive fault.	
	Step 4	Step ID 1404d	SRT
	For further assistance in diagnosing this issue or for confirmation prior to the		
	replacement of suspect components, contact the Engine Support Call Center at		
	1-800-477-0251.		
Verification Drive Cycle			e key to the ON position with the
		10 seconds for the system to	_
	With the brakes set,	start the engine and allow it to	o run at idle for 2 minutes.
			Back to Index
			<u>Dack to muex</u>



	T	
Code number	U1406	
Fault code description	CAN communication - Message (ACC1) out of range, Adaptive Cruise Control mode	
·	from Advanced Emergency Braking System	
Fault code information	1-trip Check Engine lamp	
	3 drive cycle recovery	
	Readiness group – None	
	Freeze frame type – Crankcase	
Description of component(s)	This code relates to a communication issue and not to a specific component.	
Location of component(s)	This code relates to a communication issue and not to a specific component.	
Diagnostic condition	This diagnostic runs continuously when the ignition is on.	
Set condition of fault code		
Reset condition of fault code	This DTC changes to inactive as soon as the error is no longer detected.	
Electrical diagram(s)		
Technical data	This DTC relates to a communication issue and not to a specific component.	
Possible causes	ACC RADAR Misalignment	
	Faulty wiring or related connection	
Additional information		
Diagnostic Step-by-Step	The ignition should always be in the OFF position when connecting or disconnecting electrical components to reduce the likelihood of damage to the components.	
	<ul> <li>This troubleshooting procedure is based on the assumption that supply power and ground to the PMCI are functioning properly.</li> </ul>	
	<ul> <li>Disconnecting the PMCI connectors during the troubleshooting process will result in multiple errors.</li> </ul>	
	<ul> <li>For specific electrical component information and pin out locations, always refer to the technical data in Rapido.</li> </ul>	
	It is necessary to exit the 'Active errors' screen in DAVIE and run the diagnostic test again to identify a change in errors.	
	<ul> <li>This DTC can be set as a result of multiple failure modes. For proper fault isolation, complete all troubleshooting steps in the sequence provided.</li> </ul>	



# **Step 1. Investigate Related Trouble Codes**

Before troubleshooting this code, take notice of any other active or inactive trouble codes. One or multiple other codes could have been the cause for this code.

### Step 1.A Investigate related trouble codes

#### Action

1. Use DAVIE Diagnostics to perform a Quick Check for current trouble codes.

Are these or any other related codes active?

P0567; P0568; P1062; P1122; U1184; U180B; U181F; U1820

Yes	No
Refer to the troubleshooting information for these codes before continuing with this procedure.	
	Go to step 2.A

# Step 2. Radar Alignment Checks

# Step 2.A Special procedure, Wingman (Bendix) or OnGuard (Meritor-Wabco) RADAR alignment

#### **Action**

1. Check Wingman (Bendix) or OnGuard (Meritor-Wabco) RADAR alignment using the procedure provided by the RADAR system's manufacturer.

Was the RADAR found to be out of alignment?

Yes	No
Re-align the RADAR using the associated procedure and tools from the system manufacturer.	
Use the corresponding tool to verify alignment: A-COM tool (Bendix Wingman) or Toolbox (Meritor-Wabco OnGuard).	
Refer to Step 3.A to perform the corresponding repair verification cycles and rechecks.	



If this code is still present after completing RADAR alignment, contact the PACCAR Engine Support Center for additional assistance.

Contact the PACCAR Engine Support Center for additional assistance.

#### **Step 3. Repair Verification**

#### **Step 3.A Repair verification cycles**

Perform these repair verification cycles following any corrective actions taken, to enable related OBD monitors to reach a readiness state associated with the trouble code or system being investigated.



Before beginning these repair verification cycles, use the DAVIE Diagnostics, Quick Check function to clear all current DTCs from the PCI and EAS-3 ECUs.

#### **Action**

1. Test Drive – 25 miles

Drive the truck under normal conditions for distance of approximately 25 miles while running the autoadaptive cruise control.

Were the identified repair verification cycles able to be completed?

Yes	No
	Investigate and correct any issues preventing these repair verification cycles from being completed, then rerun. For additional assistance, contact the PACCAR Engine Support Center.
Go to step 3.B	Go to step 3.B

### Step 3.B DAVIE Diagnostics, Quick Check

# Action

1. Use DAVIE Diagnostics to perform a Quick Check for current trouble codes to determine whether the actions taken have cleared this trouble code.

Has U1406 been cleared?

Yes	No
Problem resolved. No further actions.	Continue with the next step in this
	troubleshooting procedure. If all steps



	have been completed and this trouble code is still present, contact the PACCAR Engine Support Center for further assistance.
For furthe	the PACCAR Engine Support Center assistance in diagnosing this issue or for confirmation prior acement of suspect components, contact the PACCAR Engine II Center.
	Back to Index



Code number	U1407	
Fault code description	CAN communication - Message (ACC1) out of range, Adaptive Cruise Control set	
	speed from Advanced Emergency Braking System	
Fault code information	1-trip Check Engine lamp	
	3 drive cycle recovery	
	Readiness group – None	
	Freeze frame type – Crankcase	
Description of component(s)	This code relates to a communication issue and not to a specific component.	
Location of component(s)	This code relates to a communication issue and not to a specific component.	
Diagnostic condition	This diagnostic runs continuously when the ignition is on.	
Set condition of fault code		
Reset condition of fault code	This DTC changes to inactive as soon as the error is no longer detected.	
Electrical diagram(s)		
Technical data	This DTC relates to a communication issue and not to a specific component.	
Possible causes	ACC RADAR Misalignment	
	Faulty wiring or related connection	
Additional information		
Diagnostic Step-by-Step	The ignition should always be in the OFF position when connecting or disconnecting electrical components to reduce the likelihood of damage to the components.	
	This troubleshooting procedure is based on the assumption that supply power and ground to the PMCI are functioning properly.	
	<ul> <li>Disconnecting the PMCI connectors during the troubleshooting process will result in multiple errors.</li> </ul>	
	<ul> <li>Specific electrical component information and pin out locations are provided in this procedure as a reference only. Always refer to the technical data sections in Rapido for the most up-to-date changes.</li> </ul>	
	<ul> <li>It is necessary to use DAVIE to clear all current trouble codes from the PCI and EAS-3 ECUs, and then run the Quick Check to identify a change in fault status.</li> </ul>	
	<ul> <li>This DTC can be set as a result of multiple failure modes. For proper fault isolation, complete all troubleshooting steps in the sequence</li> </ul>	



PACCAI

# **Step 1. Investigate Related Trouble Codes**

provided.

Before troubleshooting this code, take notice of any other active or inactive trouble codes. One or multiple other codes could have been the cause for this code.

Step 1.A Investigate related trouble codes		
Action		
1. Use DAVIE Diagnostics to perform a Quick Check for current trouble codes.		
Are these or any other related codes active?		
P0567; P0568; P1062; P1122; U1184; U180B; U181F; U1820		
Yes	No	
Refer to the troubleshooting information for these codes before continuing with this procedure.		
	Go to step 2.A	

# **Step 2. Radar Alignment Checks**

I	Step 2.A Special procedure, Wingman (Bendix) or OnGuard (Meritor-Wabco)
I	RADAR alignment

#### Action

1. Check Wingman (Bendix) or OnGuard (Meritor-Wabco) RADAR alignment using the procedure provided by the RADAR system's manufacturer.

Was the RADAR found to be out of alignment?

Yes	No
Re-align the RADAR using the associated procedure and tools from the system manufacturer.	
Use the corresponding tool to verify alignment: A-COM tool (Bendix Wingman) or Toolbox (Meritor-Wabco OnGuard).	
Refer to Step 3.A to perform the	



and rechecks.	
If this code is still present after completing RADAR alignment, contact the PACCAR Engine Support Center for additional assistance.	Contact the PACCAR Engine Support Center for additional assistance.

# Step 3. Repair Verification

# **Step 3.A Repair verification cycles**

Perform these repair verification cycles following any corrective actions taken, to enable related OBD monitors to reach a readiness state associated with the trouble code or system being investigated.



Before beginning these repair verification cycles, use the DAVIE Diagnostics, Quick Check function to clear all current DTCs from the PCI and EAS-3 ECUs.

#### **Action**

1. Test Drive – 25 miles

Drive the truck under normal conditions for distance of approximately 25 miles while running the autoadaptive cruise control.

Were the identified repair verification cycles able to be completed?

Yes	No
	Investigate and correct any issues preventing these repair verification cycles from being completed, then rerun. For additional assistance, contact the PACCAR Engine Support Center.
Go to step 3.B	Go to step 3.B

#### Step 3.B DAVIE Diagnostics, Quick Check

#### **Action**

1. Use DAVIE Diagnostics to perform a Quick Check for current trouble codes to determine whether the actions taken have cleared this trouble code.

Has U1407 been cleared?

Yes		NO.	)
-----	--	-----	---

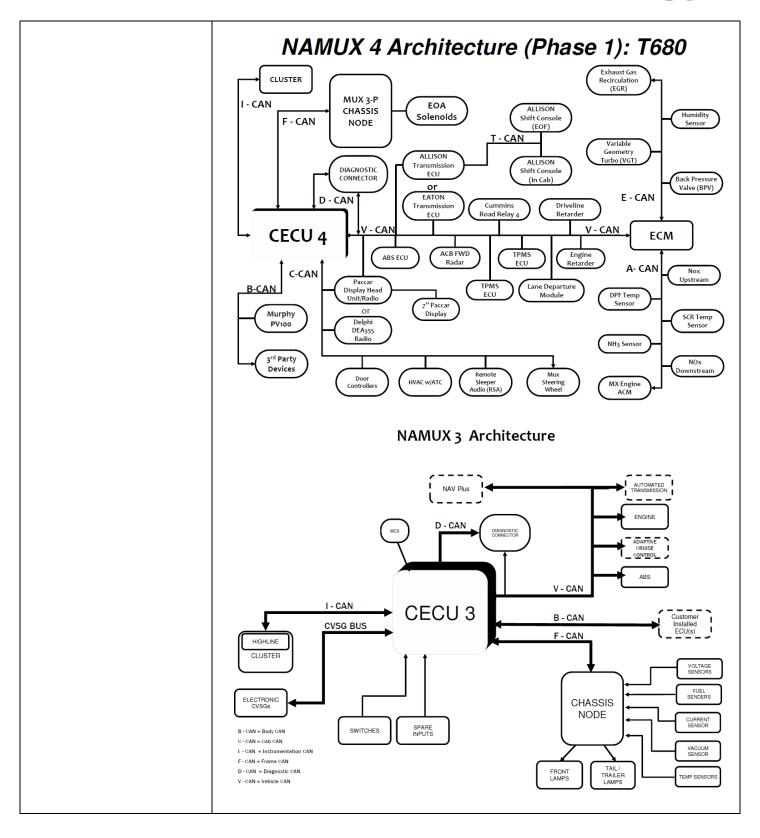


Problem resolved. No further actions.		Continue with the next step in this troubleshooting procedure. If all steps have been completed and this trouble code is still present, contact the PACCAR Engine Support Center for further assistance.
		e Support Center nosing this issue or for confirmation prior t components, contact the PACCAR Engine
		Back to Index

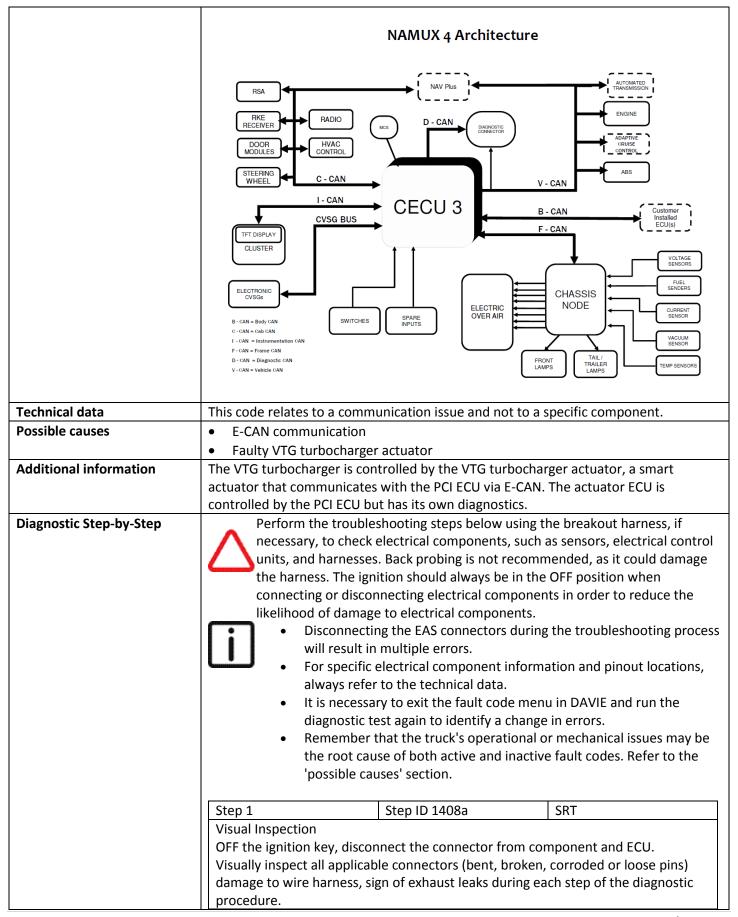


Code number	U1408	
Fault code description	VTG turbocharger actuator status - Data erratic, intermittent or incorrect	
Fault code information	1 trip MIL	
	3 drive cycle recovery	
	Readiness group – None	
	Freeze frame type – Generic	
Description of component(s)	This code relates to a communication issue and not to a specific component.	
Location of component(s)	This code relates to a communication issue and not to a specific component.	
Diagnostic condition	This diagnostic runs continuously when the ignition is on.	
Set condition of fault code	The PCI ECU (D420) receives a CAN message from the VTG turbocharger actuator	
	(LO37) that contains an out-of-range value for the actuator status.	
Reset condition of fault code	This DTC changes to inactive after the ignition is keyed off for at least 15 seconds,	
	keyed on again, and the fault is no longer detected.	
Electrical diagram(s)		
	NAMUX 3 Architecture: 2010 B-Cab	
	FIREWALL Aftertreatment CAN	
	Diagnostic CAN  TRAINSMISSION  TRAINSMISSION  ABS  DIAGNOSTIC  CONNECTOR  PACCAR  DISPIAY  Vehicle CAN  Vehicle CAN  Vehicle CAN  Voltage  SENSORS  SENSORS  SENSORS  SPARE INPUTS  TAIL  TEMP SENSORS  TEREWALL  TEMP SENSORS  TEMP SENSORS	









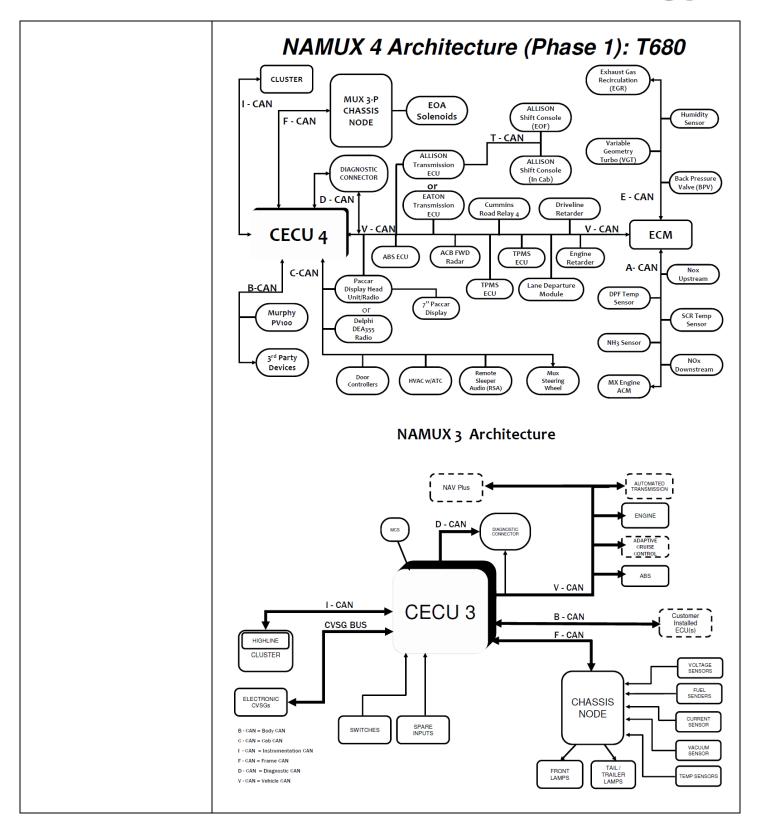


	Was there evidend	ce of any of the above?	
	No: Proceed to step 2.		
	Yes: Make the appropriate repairs or component replacements.		
	Use DAVIE to re-cl	neck for the presence of active	e faults.
	If this rela	ted fault is no longer active, th	nen this issue has been resolved.
	If this rela	ted fault is still active, Proceed	to step 2
	Step 2	Step ID 1408b	SRT
	Data check	·	·
	• Looku	p the technical data of the spe	ecific system
	Perfor	m the checking data test of th	e specific component
	Is test pass?		
	No: Pr	oceed to step 3	
	• Yes : F	roceed to step 4	
		·	
	Step 3	Step ID 1408c	SRT
	Repair or replace	component	·
	Repair or replace the component, also check for electrical connection and		
	wiring harness.		
	Reconnect the connector		
	ON the ignition key		
	Use DAVIE to re-cl	DAVIE to re-check for the presence of active faults:	
	Is DTC fau	It active: Proceed to step 4	
	Is DTC fau	lt inactive: Issue resolved. Clea	ar inactive fault
	Step 4	Step ID 1408d	SRT
	For further assistance in diagnosing this issue or for confirmation prior to the		
	replacement of suspect components, contact the Engine Support Call Center at		
	1-800-477-0251.		
<b>Verification Drive Cycle</b>		•	the key to the ON position with the $$
		•	o initialize and run diagnostics.
	With the brakes set	, start the engine and allow it	to run at idle for 2 minutes.
			Back to Index

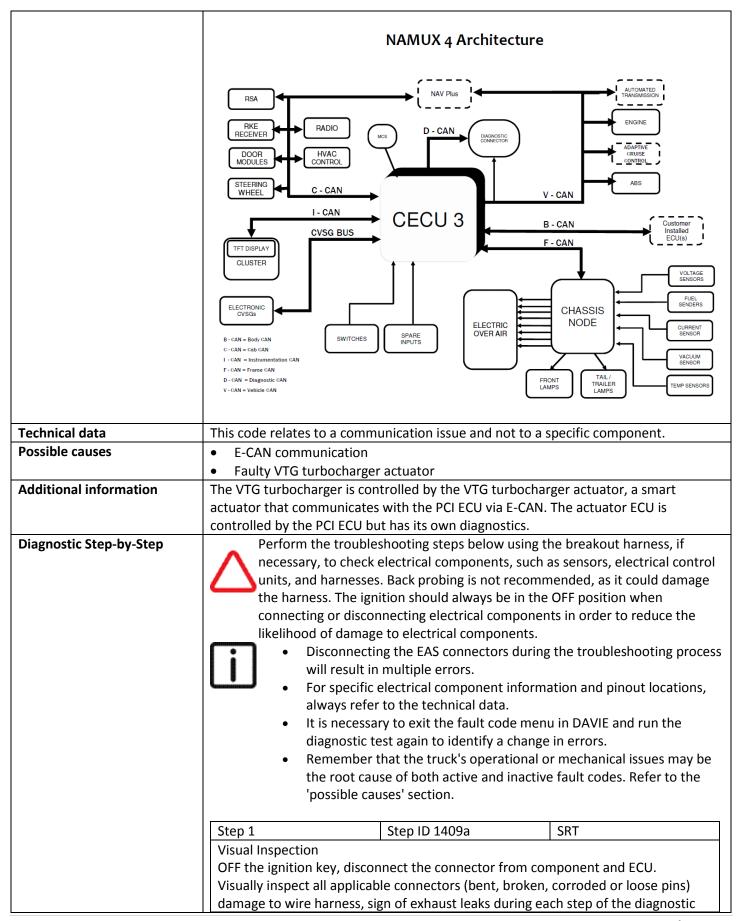


Code number	U1409	
Fault code description	VTG turbo charger actuator state - Data erratic intermittent or incorrect	
Fault code information	1 trip MIL	
	3 drive cycle recovery	
	Readiness group – None	
	Freeze frame type – Generic	
Description of component(s)	This code relates to a communication issue and not to a specific component.	
Location of component(s)	This code relates to a communication issue and not to a specific component.	
Diagnostic condition	This diagnostic runs continuously when the ignition is on.	
Set condition of fault code	The PCI ECU (D420) receives a CAN message from the VTG turbocharger actuator	
	(LO37) that contains an out-of-range value for the actuator operating state.	
Reset condition of fault code	This DTC changes to inactive after the ignition is keyed off for at least 15 seconds,	
	keyed on again, and the fault is no longer detected.	
Electrical diagram(s)		
	NAMUX 3 Architecture: 2010 B-Cab	
	FIREWALL Aftertreatment CAN	
	Diagnostic CAN	
	STEERING WHEEL	
	MCS J DIAGNOSTIC ABS CRUISE	
	CONNECTOR PACCAR Engine CAN	
	Display	
	Cluster Cab CAN Actuator	
	Instrumentation CAN  CECU 3  Vehicle CAN  After-treatment DCU	
	CVSG BUS VOLTAGE SENSORS	
	CV3d BU3	
	ELECTRONIC SENDERS	
	CVSG's	
	SWITCHES Frame CAN CHASSIS PRESSURE	
	NODE SENSORS	
	SPARE INPUTS VACUUM SENSOR	
	TEMP	
	FIREWALL FRONT LAMPS SENSORS SENSORS	











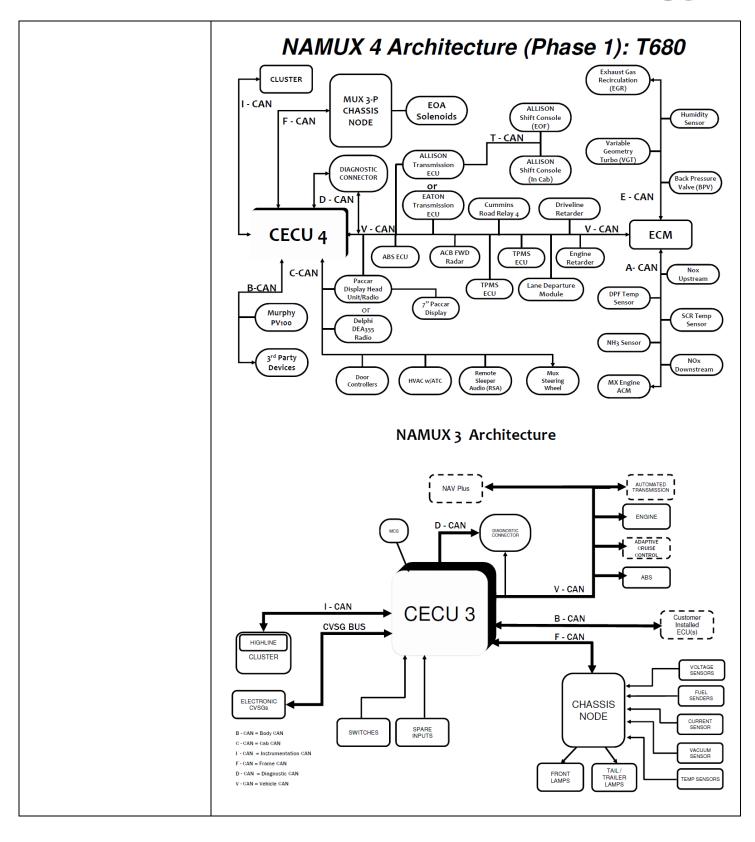
	<ul><li>No: Procee</li><li>Yes: Make</li><li>Use DAVIE to re-ch</li><li>If this relat</li></ul>	e of any of the above? ed to step 2. the appropriate repairs or conteck for the presence of active ted fault is no longer active, the fault is still active, Proceed	faults. en this issue has been resolved.
	Step 2	Step ID 1409b	SRT
	<ul><li>Perform</li><li>Is test pass?</li><li>No: Pro</li></ul>	o the technical data of the spec m the checking data test of the oceed to step 3 roceed to step 4	
	Step 3	Step ID 1409c	SRT
	wiring harm • Reconnect • ON the ign Use DAVIE to re-ch • Is DTC faul	eplace the component, also chness. the connector	
		Step ID 1409d nce in diagnosing this issue or spect components, contact the	SRT for confirmation prior to the e Engine Support Call Center at
Verification Drive Cycle	engine off, and allow	pair, with the brakes set, turn w 10 seconds for the system to start the engine and allow it t	_
			Back to Index



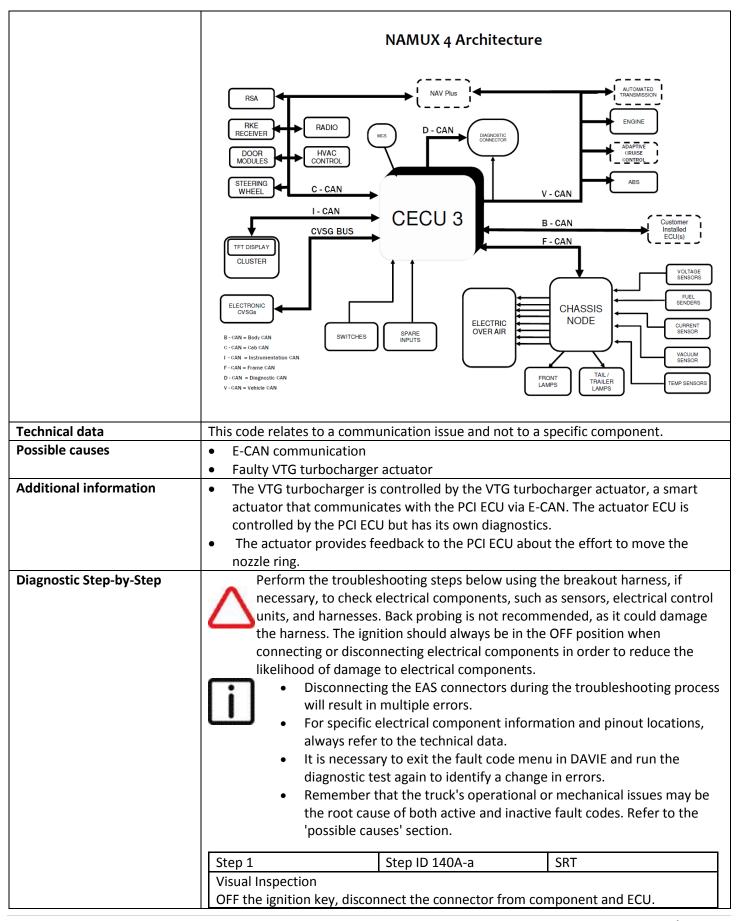
# **U140A**

Code number	U140A	
Fault code description	VTG turbocharger actuator effort - Data erratic intermittent or incorrect	
Fault code information	2 trip MIL	
	3 drive cycle recovery	
	Readiness group – None	
	Freeze frame type – Generic	
Description of component(s)	This code relates to a communication issue and not to a specific component.	
Location of component(s)	This code relates to a communication issue and not to a specific component.	
Diagnostic condition	This diagnostic runs continuously when the ignition is on.	
Set condition of fault code	The PCI ECU (D420) receives a CAN message from the VTG turbocharger actuator	
	(L037) that contains an out-of-range value for the actuator effort.	
Reset condition of fault code	This DTC changes to inactive after the ignition is keyed off for at least 15 seconds,	
	keyed on again, and the fault is no longer detected.	
Electrical diagram(s)		
	NAME OF THE PROPERTY OF THE PR	
	NAMUX 3 Architecture: 2010 B-Cab	
	FIREWALL Aftertreatment CAN	
	Diagnostic CAN	
	STEERING WHEEL TRANSMISSION, ENGINE ENGINE	
	MCS ABS ABS CRUSE I	
	DIAGNOSTIC CONNECTOR	
	PACCAR Display PACCAN ♥	
	Cluster Cab CAN VGT Actuator	
	After-treatment	
	Instrumentation CAN CECU 3	
	CVSG BUS VOLTAGE SENSORS	
	- FUEL	
	ELECTRONIC SENDERS	
	CVSG'S CURRENT SENSOR	
	SWITCHES Frame CAN CHASSIS PRESSURE	
	NODE SENSORS	
	SPARE INPUTS VACUUM SENSOR	
	FRONT TAIL TEMP STREET	
	FIREWALL LAMPS TRAILER LAMPS	











Visually inspect all applicable connectors (bent, broken, corroded or loose pins) damage to wire harness, sign of exhaust leaks during each step of the diagnostic procedure. Was there evidence of any of the above? No: Proceed to step 2. Yes: Make the appropriate repairs or component replacements. Use DAVIE to re-check for the presence of active faults. If this related fault is no longer active, then this issue has been resolved. If this related fault is still active, Proceed to step 2 Step 2 Step ID 140A-b SRT Data check Lookup the technical data of the specific system Perform the checking data test of the specific component Is test pass? No: Proceed to step 3 Yes: Proceed to step4 Step 3 Step ID 140A-c SRT Repair or replace component Repair or replace the component, also check for electrical connection and wiring harness. Reconnect the connector ON the ignition key Use DAVIE to re-check for the presence of active faults: Is DTC fault active: Proceed to step 4 Is DTC fault inactive: Issue resolved. Clear inactive fault. Step ID 140A-d For further assistance in diagnosing this issue or for confirmation prior to the replacement of suspect components, contact the Engine Support Call Center at 1-800-477-0251. **Verification Drive Cycle** To validate the repair, with the brakes set, turn the key to the ON position with the

engine off, and allow 10 seconds for the system to initialize and run diagnostics. With the brakes set, start the engine and allow it to run at idle for 2 minutes.

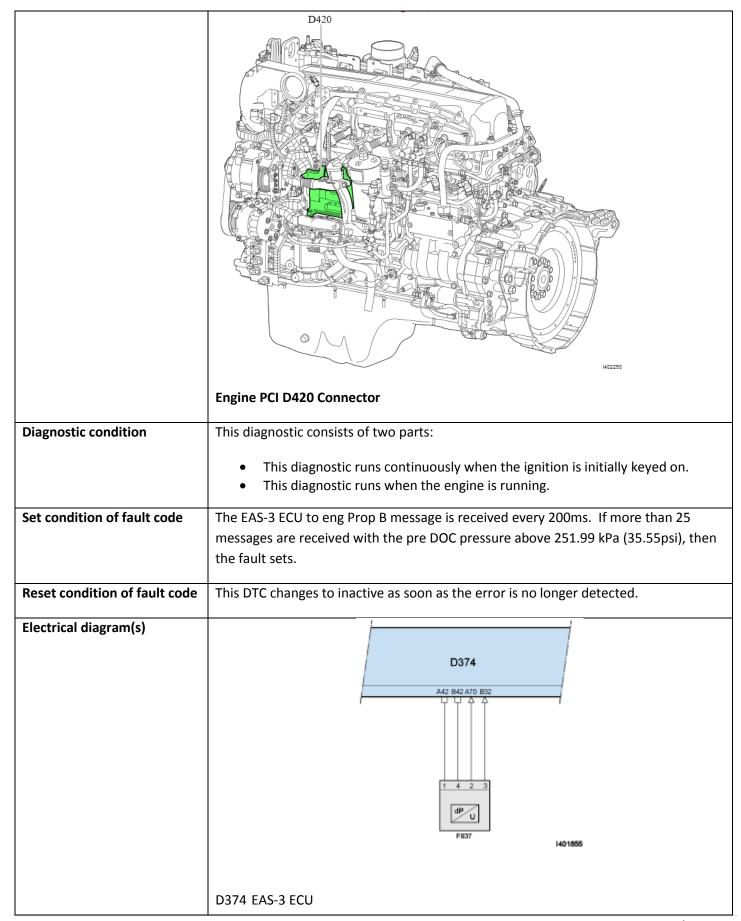
Back to Index



# U142F

Code number	U142F
Fault code description	CAN communication - Message (ACM_to_Eng) out of range - Estimated pre DOC
	pressure from emission system.
Fault code information	# trip MIL – N/A
	Freeze frame type – Crankcase
	3 drive cycle recovery
	Readiness group - None
Description of component(s)	This code relates to a communication issue dealing with the signal from the DPF
	pressure sensor (F837) to the EAS-3 ECU to the engine PCI (D420).
Location of component(s)	
	F837
	EAS-3 ECU

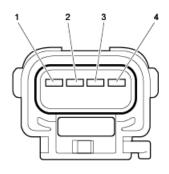






F837 DPF pressure sensor

D374	F837	Function
A42	1	Ground
A70	2	Signal, delta pressure over DPF
B32	3	Signal pressure after DPF
B42	4	Supply



Wiring harness connector F837 front view



Handle connectors and pins with care and use matching measuring probes.

# **Technical data**

# Component check, DPF pressure sensor (F837)

# **Preparation**

- Disconnect connector F837
- Set the ignition key to ON
- Measure on component connector F837

Pin	Pin	Value	Additional information
(+ probe)	(- probe)		
1	Battery negative pole	< 0.5V	Switch all consumers on
4	1	4.75 – 5.25V	

# **Possible causes**

• Breakdown in communication of the CAN network



	<ul> <li>Open circuit, short circuit to ground, or short circuit to supply in the CAN network wiring.</li> <li>Open circuit, short circuit to ground for the DPF pressure sensor (F837)</li> </ul>
Additional information	This is a low level CAN fault that is checking whether the message from the ACM is within a specified range.
Diagnostic Step-by-Step	The ignition should always be in the OFF position when connecting or disconnecting electrical components to reduce the likelihood of damage to the components.
	<ul> <li>This troubleshooting procedure is based on the assumption that supply power and ground to the PMCI are functioning properly.</li> </ul>
	<ul> <li>Disconnecting the PMCI connectors during the troubleshooting process will result in multiple errors.</li> </ul>
	<ul> <li>For specific electrical component information and pin out locations, always refer to the technical data in Rapido.</li> </ul>
	<ul> <li>It is necessary to exit the 'Active errors' screen in DAVIE and run the diagnostic test again to identify a change in errors.</li> </ul>
	<ul> <li>This DTC can be set as a result of multiple failure modes. For proper fault isolation, complete all troubleshooting steps in the sequence provided.</li> </ul>
	Step 1. Investigate Related Trouble Codes
	Before troubleshooting this code, take notice of any other current codes. One or
	multiple other codes could have been the cause for this code.
	Step U142F_1.A Investigate related trouble codes SRT:
	Are these or any other related trouble codes present?
	P3770, P3766, P3767, P3768, P3769
	Yes Refer to the troubleshooting information for these codes before continuing with this procedure.  No Step 2.A
	Step 2. Step 2. DOC Pressure Sensor (F837) Checks
	Step U142F_2.A Visual Inspection: DOC pressure sensor (F837) SRT:
	Visually inspect the associated component connections and wiring for any of the following:
	<ul> <li>Damaged or loose connectors</li> </ul>



- ECU connections are damaged or disconnected
- Bent, broken, corroded or loose connector pins
- Moisture or dirt in the connections
- Missing or damaged connector seals
- Damaged connector locking tabs
- Damage to the wire harness or insulation
- DOC pressure sensor damaged or not installed properly
- Low battery supply voltage or loose contacts

Was there evidence of any of the above?

**Yes** Correct any issues found. If the DOC pressure sensor (F837) is found to be damaged or broken, replace it.

Refer to Step 3.A to perform the corresponding repair verification cycles. Use DAVIE Diagnostics to perform a Quick Check for current trouble codes. If this code is still active, proceed to Step 2.B

No Step 2.B

# Step U142F\_2.B Electrical Checks: DOC pressure sensor (F837)

SRT



Refer to the corresponding Checking Data in Engine Service – Rapido for associated supply and signal voltages, resistance values, and related connector pin test points.

- 2.B.1 Supply and signal voltages
  - Set the ignition key to OFF.
  - Disconnect the harness connector from the DOC pressure sensor (F837).
  - Set the ignition key to ON.

Measure the DOC pressure sensor supply and signal voltages across the appropriate connector pins.

Are measured values within expected range?

Yes Step 4.A

**No** Correct any issues found, or replace the sensor if measured values indicate a sensor error.

Refer to Step 3.A to perform the corresponding repair verification cycles. Use DAVIE Diagnostics to perform a Quick Check for current trouble codes. If this code is still active, proceed to Step 4.A

### Step 3. Repair Verification Cycles



Perform these repair verification cycles following any corrective actions

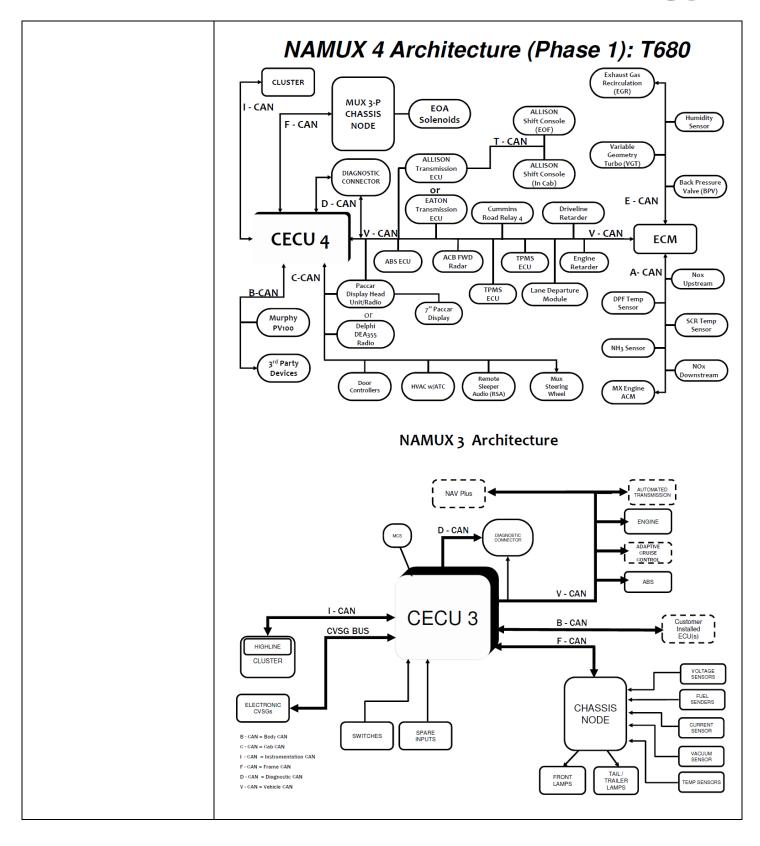


taken,	to confirm that this trouble code is no long	er present.
Step U142F_3.A	Repair Verification Cycle: Start-up	SRT:
with the brakes s	set, start the engine and allow it to run at id	lie for 2 minutes.
Step 4. Contact Pa	ACCAR Engine Support Center  Contact PACCAR Engine Support Center	SRT:
For further assist	ance in diagnosing this issue or for confirmate uspect components, contact the PACCAR Er	ation prior to the
		Back to Ir

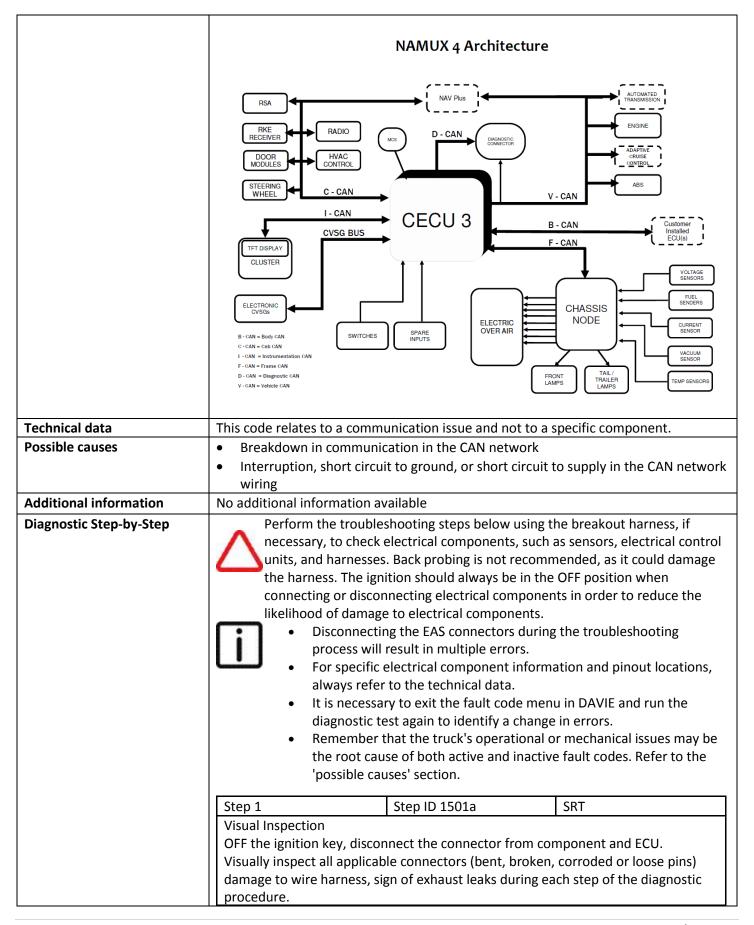


Code number	U1501
Fault code description	CAN communication - Message (TCO1) out of range - output shaft speed from
	tachograph
Fault code information	1 trip MIL
	3 drive cycle recovery
	Readiness group – None
	Freeze frame type – Empty
Description of component(s)	This code relates to a communication issue and not to a specific component.
Location of component(s)	This code relates to a communication issue and not to a specific component.
Diagnostic condition	This diagnostic runs continuously when the ignition is on.
Set condition of fault code	
Reset condition of fault code	This DTC changes to inactive as soon as the error is no longer detected.
Electrical diagram(s)	
	NAMUX 3 Architecture: 2010 B-Cab
	NAMOX 3 Architecture. 2010 B-Cab
	FIREWALL Aftertreatment CAN
	Diagnostic CAN AUTO TRANSMISSION ENGINE
	WHEEL
	MCS DIAGNOSTIC ABS ABS ADAPTIVE CRUISE CRUISE
	CONNECTOR
	PACCAR Display Figure CAN ♥
	Cluster Cab CAN Actuator
	Instrumentation CAN Vehicle CAN Vehicle CAN
	CECU 3
	CVSG BUS VOLTAGE SENSORS
	FUEL SENDERS
	ELECTRONIC CVSG's CURRENT
	SENSOR SENSOR
	SWITCHES Frame CAN CHASSIS PRESSURE SENSORS
	COARS VACUUM
	SENSOR
	FRONT TAIL / TEMP SENSORS
	FIREWALL LAMPS LAMPS









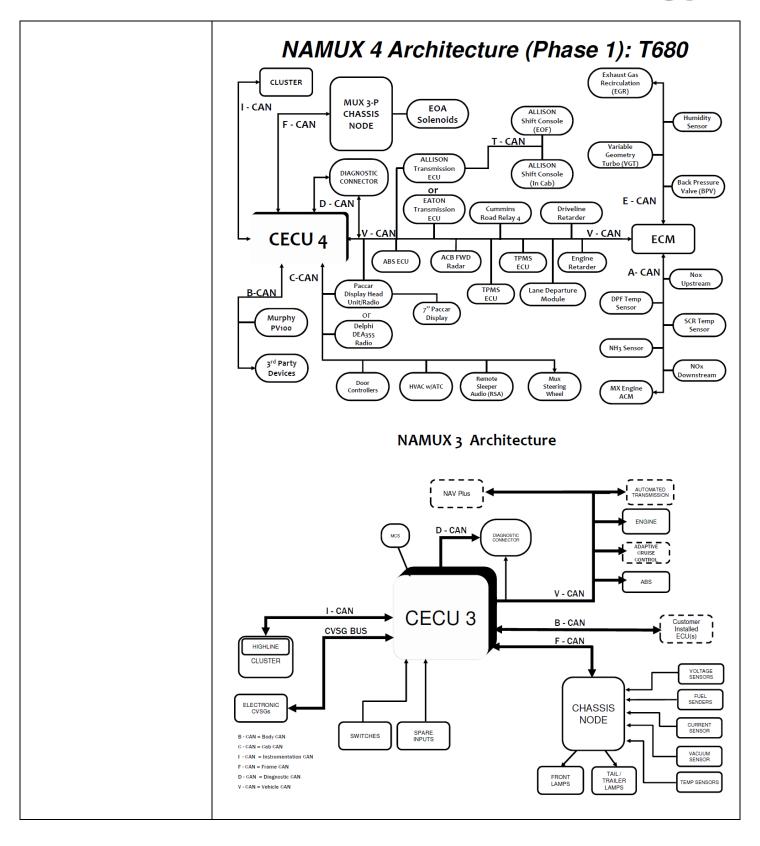


		ce of any of the above?	
		ed to step 2.	
		e the appropriate repairs or com	
		heck for the presence of active t	
		ited fault is no longer active, the	
	If this relationships	ited fault is still active, Proceed	to step 2
	Step 2	Step ID 1501b	SRT
	Data check	1000	
		e technical data of the specific	system
	·	he checking data test of the spe	•
	Is test pass?	oo	
	No: Proce	ed to step 3	
	Yes : Proc	eed to step4	
	Step 3	Step ID 1501c	SRT
	Repair or replace	component	
		•	eck for electrical connection and
	wiring hai		
		t the connector	
	ON the ig	•	C
		heck for the presence of active t	lauits:
		Ilt active: Proceed to step 4	inactive fault
	• IS DIC lau	Ilt inactive: Issue resolved. Clear	mactive fault.
	Step 4	Step ID 1501d	SRT
		nnce in diagnosing this issue or f	or confirmation prior to the
		ispect components, contact the	•
	1-800-477-0251.		
Verification Drive Cycle	To verify the repair		
			n with the engine off, and allow 10
	·	tem to initialize and run diagnos	
	With the brakes set	t, start the engine and allow it to	o run at idle for 2 minutes
			post of the
			Back to Index

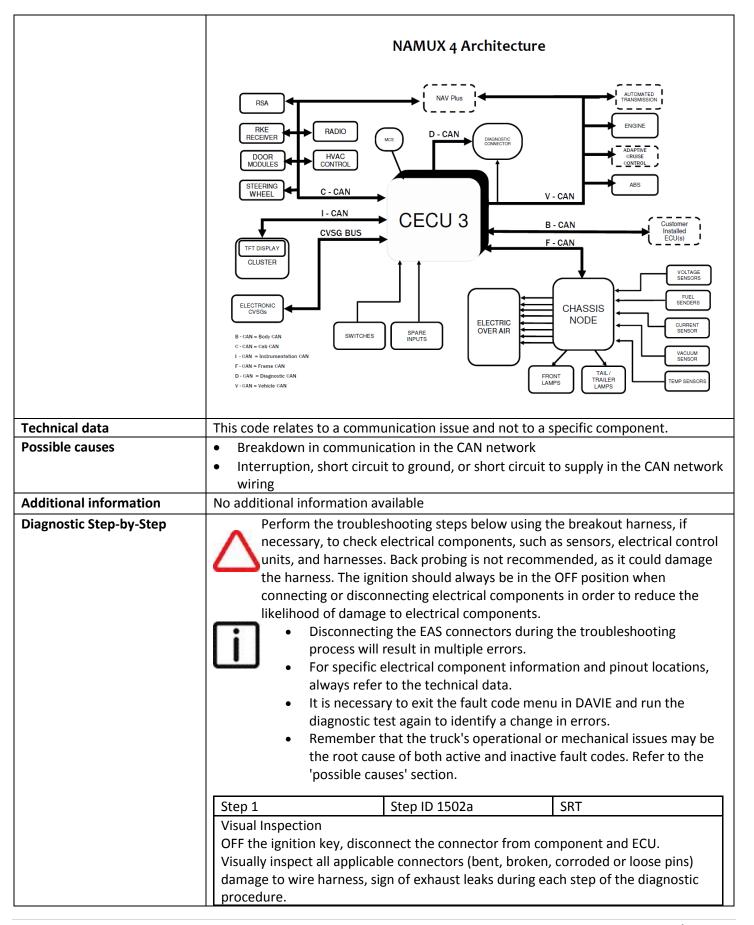


Code number	U1502
Fault code description	CAN communication - Message (TCO1) out of range - vehicle speed from tachograph
Fault code information	1 trip MIL
	3 drive cycle recovery
	Readiness group – None
	Freeze frame type – Empty
Description of component(s)	This code relates to a communication issue and not to a specific component.
Location of component(s)	This code relates to a communication issue and not to a specific component.
Diagnostic condition	This diagnostic runs continuously when the ignition is on.
Set condition of fault code	
Reset condition of fault code	This DTC changes to inactive as soon as the error is no longer detected.
Electrical diagram(s)	
	NAMUX 3 Architecture: 2010 B-Cab  FIREWALL  STEERING WHEEL  MCS  DIAGNOSTIC CONNECTOR PACCAR DISPIAY  Vehicle CAN  Vehicle CAN  CVSG BUS  Frame CAN  FIREWALL  Aftertreatment CAN  LAUTO LITRANSMISSION ENGINE CONNECTOR PACCAR DISPIAY  VOLTAGE SENSORS FUEL SENSORS  VOLTAGE SENSORS  FRONT SENSOR  VACUUUM SENSORS  FIREWALL  FRONT LAMPS  TAIL TAIL TRAIL TRAIL TRAIL TEMP SENSORS











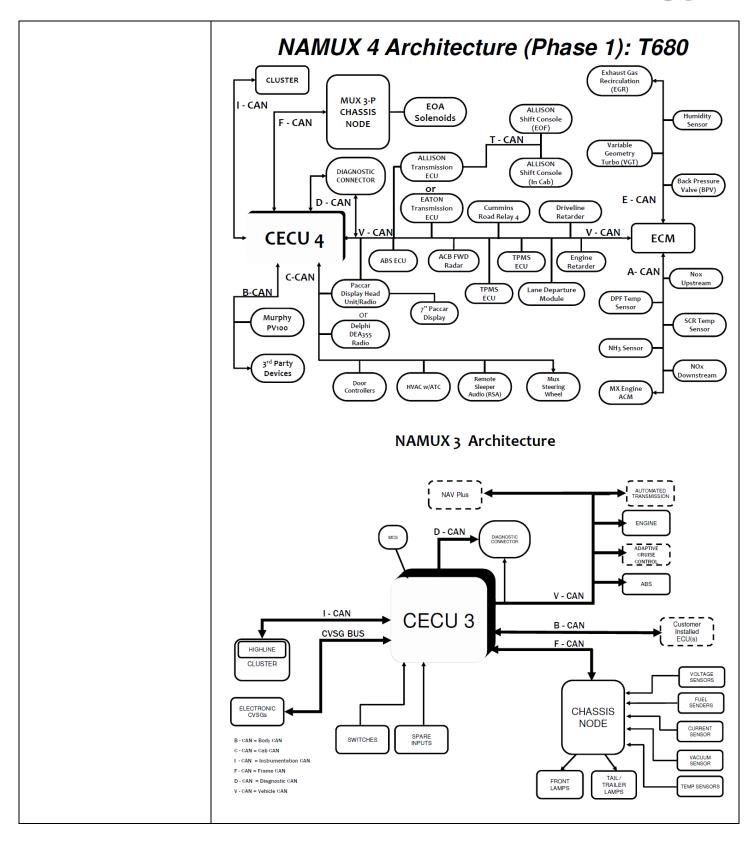
No: Proceed to step 2. Yes: Make the appropriate repairs or component replacements. Use DAVIE to re-check for the presence of active faults. If this related fault is no longer active, then this issue has been resolved. If this related fault is still active, Proceed to step 2    Step 2
Use DAVIE to re-check for the presence of active faults.  If this related fault is no longer active, then this issue has been resolved.  If this related fault is still active, Proceed to step 2  Step 2 Step ID 1502b SRT  Data check  Lookup the technical data of the specific system Perform the checking data test of the specific component Is test pass?  No: Proceed to step 3 Yes: Proceed to step4  Step 3 Step ID 1502c SRT  Repair or replace component Repair or replace the component, also check for electrical connection and wiring harness. Reconnect the connector ON the ignition key Use DAVIE to re-check for the presence of active faults:
If this related fault is no longer active, then this issue has been resolved.  If this related fault is still active, Proceed to step 2  Step 2
Step 2 Step ID 1502b SRT  Data check  Lookup the technical data of the specific system Perform the checking data test of the specific component Is test pass? No: Proceed to step 3 Yes: Proceed to step4  Step 3 Step ID 1502c SRT  Repair or replace component Repair or replace the component, also check for electrical connection and wiring harness. Reconnect the connector ON the ignition key Use DAVIE to re-check for the presence of active faults:
Step 2 Step ID 1502b SRT  Data check  Lookup the technical data of the specific system Perform the checking data test of the specific component Is test pass? No: Proceed to step 3 Yes: Proceed to step4  Step 3 Step ID 1502c SRT  Repair or replace component Repair or replace the component, also check for electrical connection and wiring harness. Reconnect the connector ON the ignition key Use DAVIE to re-check for the presence of active faults:
Data check  Lookup the technical data of the specific system Perform the checking data test of the specific component Is test pass? No: Proceed to step 3 Yes: Proceed to step4  Step 3 Step ID 1502c SRT Repair or replace component Repair or replace the component, also check for electrical connection and wiring harness. Reconnect the connector ON the ignition key Use DAVIE to re-check for the presence of active faults:
Data check  Lookup the technical data of the specific system Perform the checking data test of the specific component Is test pass? No: Proceed to step 3 Yes: Proceed to step4  Step 3 Step ID 1502c SRT Repair or replace component Repair or replace the component, also check for electrical connection and wiring harness. Reconnect the connector ON the ignition key Use DAVIE to re-check for the presence of active faults:
<ul> <li>Lookup the technical data of the specific system</li> <li>Perform the checking data test of the specific component Is test pass?</li> <li>No: Proceed to step 3</li> <li>Yes: Proceed to step4</li> </ul> Step 3 <ul> <li>Step ID 1502c</li> <li>SRT</li> <li>Repair or replace component</li> <li>Repair or replace the component, also check for electrical connection and wiring harness.</li> <li>Reconnect the connector</li> <li>ON the ignition key</li> <li>Use DAVIE to re-check for the presence of active faults:</li> </ul>
Perform the checking data test of the specific component Is test pass?  No: Proceed to step 3 Yes: Proceed to step4  Step 3 Step ID 1502c SRT  Repair or replace component Repair or replace the component, also check for electrical connection and wiring harness. Reconnect the connector ON the ignition key Use DAVIE to re-check for the presence of active faults:
Is test pass?  No: Proceed to step 3  Yes: Proceed to step4  Step 3  Step ID 1502c  Repair or replace component  Repair or replace the component, also check for electrical connection and wiring harness.  Reconnect the connector  ON the ignition key  Use DAVIE to re-check for the presence of active faults:
No: Proceed to step 3 Yes: Proceed to step4  Step 3 Step ID 1502c SRT  Repair or replace component Repair or replace the component, also check for electrical connection and wiring harness. Reconnect the connector ON the ignition key Use DAVIE to re-check for the presence of active faults:
Yes: Proceed to step4  Step 3
Step 3  Repair or replace component  Repair or replace the component, also check for electrical connection and wiring harness.  Reconnect the connector  ON the ignition key  Use DAVIE to re-check for the presence of active faults:
Repair or replace component  Repair or replace the component, also check for electrical connection and wiring harness.  Reconnect the connector  ON the ignition key Use DAVIE to re-check for the presence of active faults:
Repair or replace component  Repair or replace the component, also check for electrical connection and wiring harness.  Reconnect the connector  ON the ignition key Use DAVIE to re-check for the presence of active faults:
<ul> <li>Repair or replace the component, also check for electrical connection and wiring harness.</li> <li>Reconnect the connector</li> <li>ON the ignition key</li> <li>Use DAVIE to re-check for the presence of active faults:</li> </ul>
wiring harness.  Reconnect the connector  ON the ignition key Use DAVIE to re-check for the presence of active faults:
<ul> <li>Reconnect the connector</li> <li>ON the ignition key</li> <li>Use DAVIE to re-check for the presence of active faults:</li> </ul>
ON the ignition key Use DAVIE to re-check for the presence of active faults:
Use DAVIE to re-check for the presence of active faults:
Is DTC fault active: Proceed to step 4
Is DTC fault inactive: Issue resolved. Clear inactive fault.
Step 4 Step ID 1502d SRT
For further assistance in diagnosing this issue or for confirmation prior to the
replacement of suspect components, contact the Engine Support Call Center at
1-800-477-0251.
Verification Drive Cycle To verify the repair:
With the brakes set, turn the key to the ON position with the engine off, and allow 10
seconds for the system to initialize and run diagnostics
With the brakes set, start the engine and allow it to run at idle for 2 minutes
Back to Index



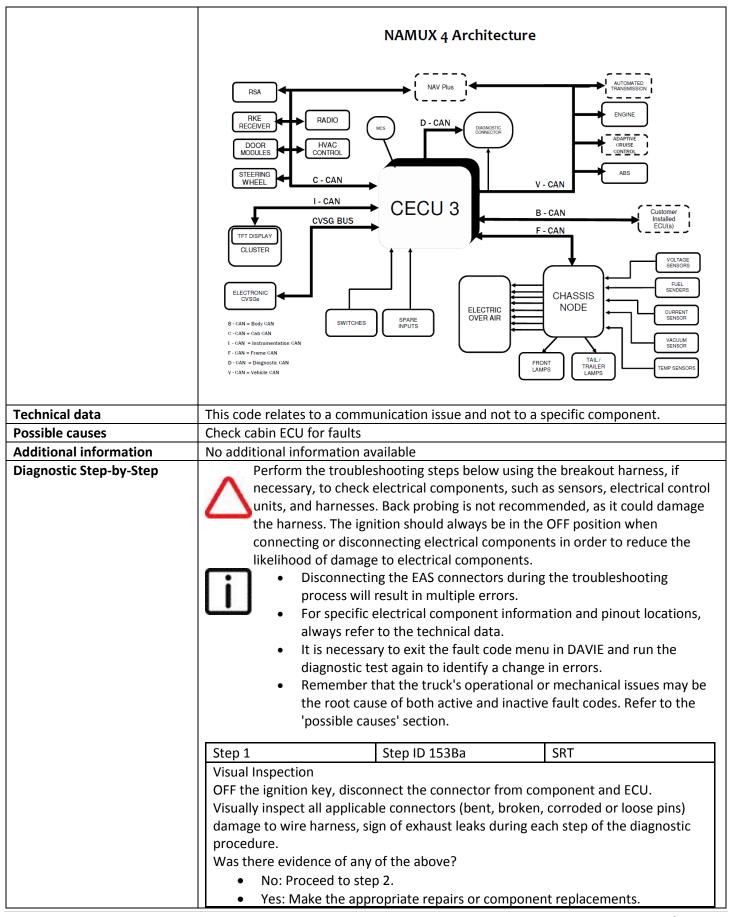
## U153B

Code number	U153B		
Fault code description	CAN communication - Message (PTO) out of range - Engine PTO resume switch		
Fault code information	3 drive cycle recovery		
	Readiness group – None		
	Freeze frame type – Generic		
Description of component(s)	This code relates to a communication issue and not to a specific component.		
Location of component(s)	This code relates to a communication issue and not to a specific component.		
Diagnostic condition	This diagnostic runs continuously when the ignition is on.		
Set condition of fault code			
Reset condition of fault code	This DTC changes to inactive as soon as the error is no longer detected.		
Electrical diagram(s)			
	NAMUX 3 Architecture: 2010 B-Cab    STEERING   WHEEL   Aftertreatment CAN   ENGINE   ENGINE   CONNECTOR   CONNECTO		









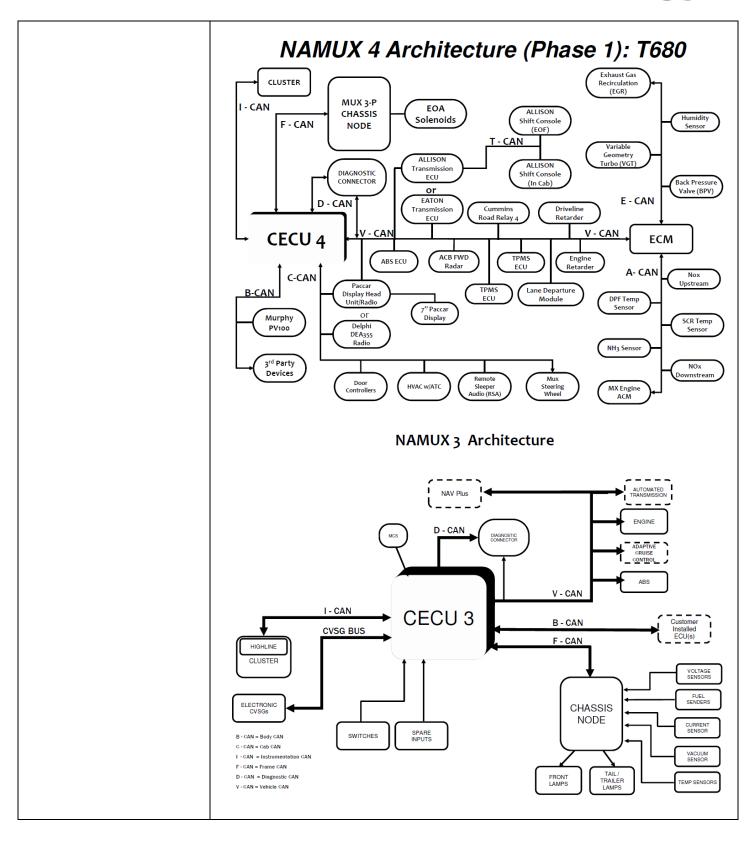


	Use DAVIE to re-check for the presence of active faults.  • If this related fault is no longer active, then this issue has been resolved.  • If this related fault is still active, Proceed to step 2		
	Step 2	Step ID 153Bb	SRT
	Data check	<u>.</u>	·
	<ul> <li>Lookup the technical data of the specific system</li> <li>Perform the checking data test of the specific component</li> </ul> Is test pass?		
	No: Procee	ed to step 3	
	Yes : Proce	ed to step4	
	Step 3	Step ID 153Bc	SRT
	Repair or replace c	· · · · · · · · · · · · · · · · · · ·	3.1.1
	<ul> <li>Repair or replace the component, also check for electrical connection and wiring harness .</li> <li>Reconnect the connector</li> <li>ON the ignition key</li> </ul> Use DAVIE to re-check for the presence of active faults:		
	Is DTC fault active: Proceed to step 4		
	Is DTC fault inactive : Issue resolved. Clear inactive fault.		
	Step 4 Step ID 153Bd SRT		
	For further assistance in diagnosing this issue or for confirmation prior to the		
	replacement of suspect components, contact the Engine Support Call Center at 1-800-477-0251.		
Verification Drive Cycle	To validate the repair:		
	With the brakes set, turn the key to the ON position with the engine off, and     With the brakes set, turn the key to the ON position with the engine off, and		
	<ul> <li>allow 10 seconds for the system to initialize and run diagnostics.</li> <li>With the brakes set, start the engine and allow it to run at idle for 2 minutes.</li> </ul>		
			Back to Index

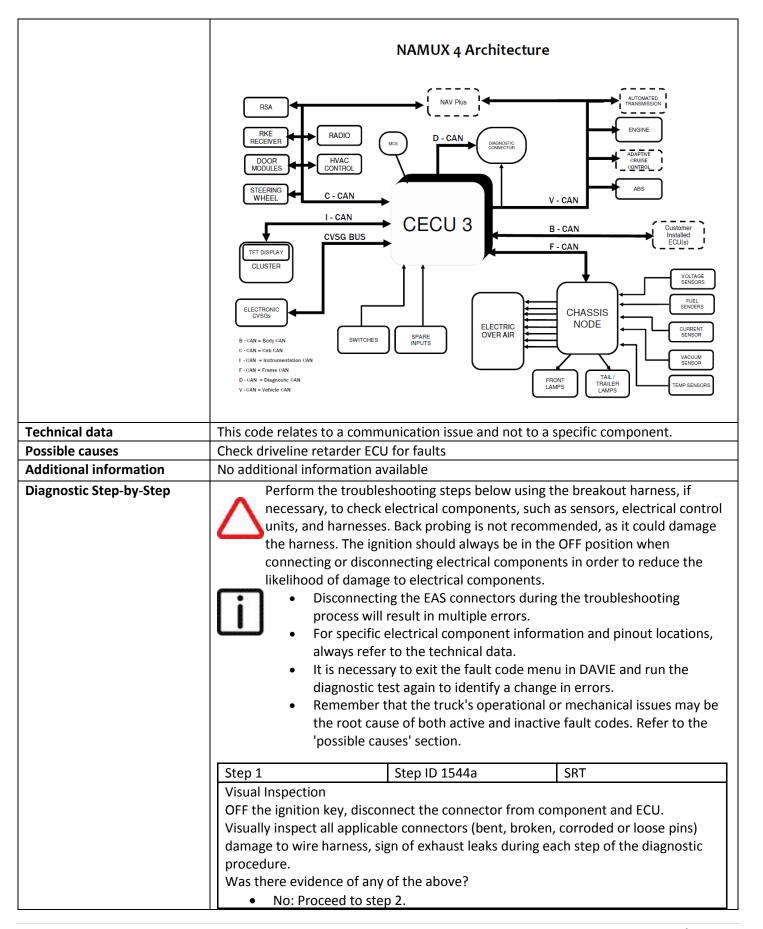


Code number	U1544		
Fault code description	CAN communication - Message (ERC1_DR) out of range - Retarder torque actual		
	percentage from transmission		
Fault code information	3 drive cycle recovery		
	Readiness group – None		
	Freeze frame type – Generic		
Description of component(s)	This code relates to a communication issue and not to a specific component.		
Location of component(s)	This code relates to a communication issue and not to a specific component.		
Diagnostic condition	This diagnostic runs continuously when the ignition is on.		
Set condition of fault code			
Reset condition of fault code	This DTC changes to inactive as soon as the error is no longer detected.		
Electrical diagram(s)			
	NAMIN 2 Architecture, 2010 B. Cab		
	NAMUX 3 Architecture: 2010 B-Cab		
	FIREWALL Aftertreatment CAN		
	Diagnostic CAN AUTO ENGINE		
	STEERING WHEEL TRANSMISSION, T		
	MCS ) ABS		
	CONNECTOR		
	PACCAR Display Engine CAN		
	Cluster Cab CAN VGT Actuator		
	After-treatment		
	Instrumentation CAN CECU 3 Vehicle CAN L		
	CVSG BUS VOLTAGE SENSORS		
	FUEL SENDERS		
	ELECTRONIC		
	CVSG's CURRENT SENSOR		
	SWITCHES Frame CAN CHASSIS PRESSURE SENSORS		
	SPARE INPUTS VACUUM SENSOR		
	FRONT TAIL TEMP SENSORS		
	FIREWALL LAMPS TRAILER LAMPS		









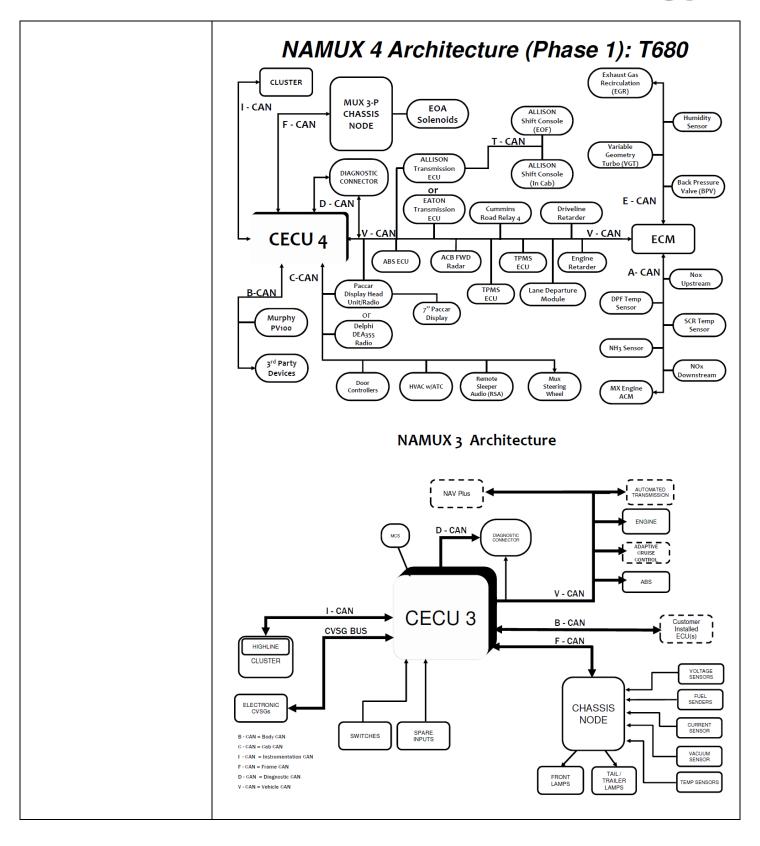


	Use DAVIE to re-ch  ■ If this rela	<ul> <li>Yes: Make the appropriate repairs or component replacements.</li> <li>Use DAVIE to re-check for the presence of active faults.</li> <li>If this related fault is no longer active, then this issue has been resolved.</li> <li>If this related fault is still active, Proceed to step 2</li> </ul>		
	If this rela			
	Step 2	Step ID 1544b	SRT	
	Data check			
	Lookup the technical data of the specific system			
		<ul> <li>Perform the checking data test of the specific component</li> <li>Is test pass?</li> <li>No: Proceed to step 3</li> </ul>		
		eed to step4		
	Tes. Proce	eed to step4		
	Step 3 Step ID 1544c SRT			
	Step 3	SRT		
	Repair or replace component  Repair or replace the component, also check for electrical connection and wiring harness.			
		Reconnect the connector		
	ON the igr	•	c 1.	
		neck for the presence of active	faults:	
		lt active: Proceed to step 4 It inactive : Issue resolved. Clea	r inactive fault	
	IS DICIAU	it illactive . Issue l'esolveu. Clea	i mactive radit.	
	Step 4	Step ID 1544d	SRT	
	For further assistance in diagnosing this issue or for confirmation prior to the replacement of suspect components, contact the Engine Support Call Center at 1-800-477-0251.			
Verification Drive Cycle	To validate the repair, with the brakes set, turn the key to the ON position with the engine off, and allow 10 seconds for the system to initialize and run diagnostics.  With the brakes set, start the engine and allow it to run at idle for 2 minutes.			
	Back to Index			

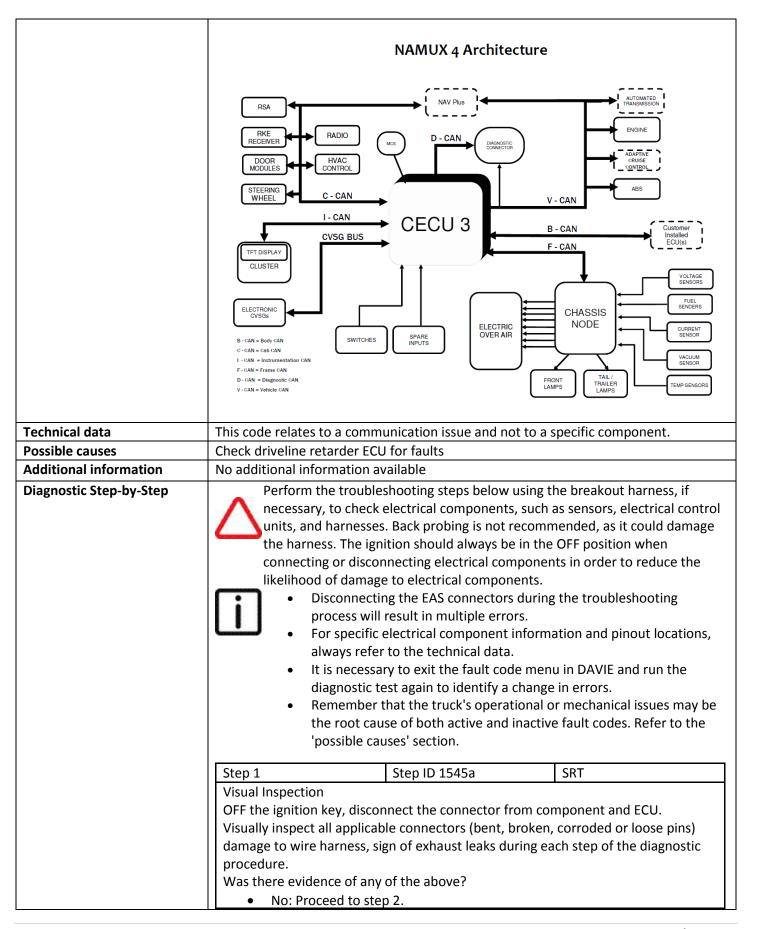


Code number	U1545		
Fault code description	CAN communication - Message (ERC1_DR) out of range - Driver's demand retarder		
	percentage torque from retarder		
Fault code information	3 drive cycle recovery		
	Readiness group – None		
	Freeze frame type – Generic		
Description of component(s)	This code relates to a communication issue and not to a specific component.		
Location of component(s)	This code relates to a communication issue and not to a specific component.		
Diagnostic condition	This diagnostic runs continuously when the ignition is on.		
Set condition of fault code			
Reset condition of fault code	This DTC changes to inactive as soon as the error is no longer detected.		
Electrical diagram(s)			
	NAMUX 3 Architecture: 2010 B-Cab		
	FIREWALL Aftertreatment CAN		
	Diagnostic CAN		
	STEERING WHEEL TRANSMISSION ENGINE		
	ABS ABAPTIVE CRUISE		
	DIAGNOSTIC CONNECTOR CONTROL		
	PACCAR LI Engine CAN		
	Cluster Cab CAN Display VGT Actuator		
	Instrumentation CAN Vehicle CAN After-treatment DCU		
	CECU 3 Vehicle CAN   DCU   VOLTAGE		
	CVSG BUS SENSORS		
	†† † FUEL SENDERS		
	ELECTRONIC CUSG's CURRENT		
	SWITCHES Frame CAN CHASSIS PRESSURE		
	SWITCHES Frame CAN NODE PRESSURE SENSORS		
	SPARE VACUUM SENSOR SENSOR		
	INPUTS		
	FRONT TAIL / TRALER SENSORS		
	FIREWALL LAMPS LAMPS		









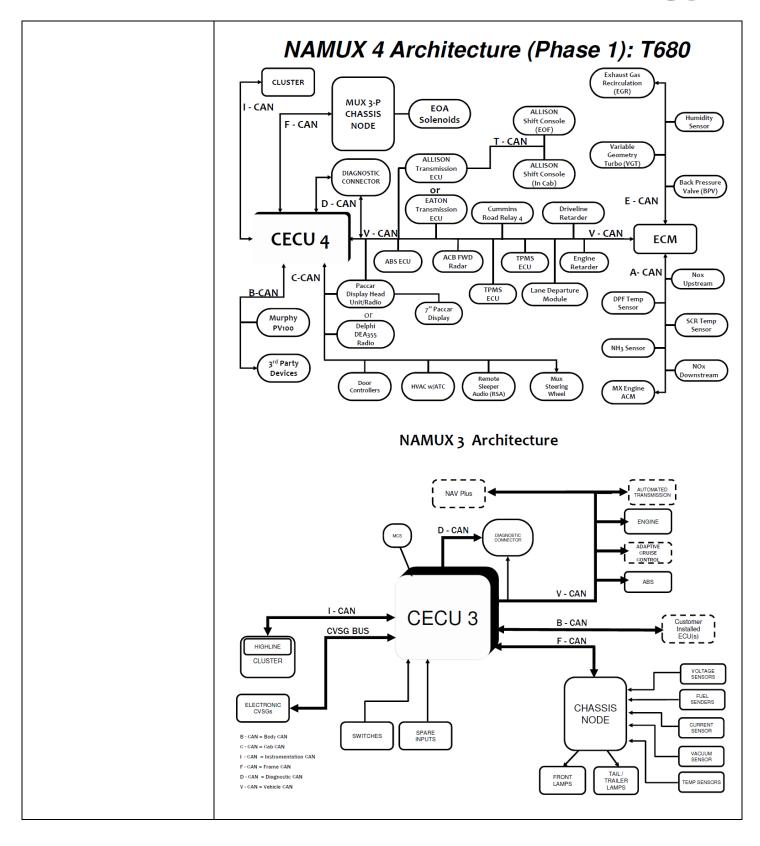


	Yes: Make the appropriate repairs or component replacements.			
	Use DAVIE to re-c	heck for the presence of active	faults.	
	<ul> <li>If this related fault is no longer active, then this issue has been resolved.</li> </ul>			
	<ul> <li>If this rela</li> </ul>	nted fault is still active, Proceed	to step 2	
	Step 2	Step ID 1545b	SRT	
	Data check			
	Lookup the technical data of the specific system			
	Perform t	he checking data test of the spe	cific component	
	Is test pass?			
	No: Proce	eed to step 3		
	Yes : Proc	eed to step4		
	Step 3	Step ID 1545c	SRT	
	Repair or replace component			
	Repair or	Repair or replace the component, also check for electrical connection and		
	wiring ha			
	Reconnect			
	ON the ig	nition key		
		heck for the presence of active	faults:	
		ılt active: Proceed to step 4		
	Is DTC fau	ılt inactive : Issue resolved. Clea	r inactive fault.	
	Ston 4	Step ID 1545d	SRT	
	Step 4 Step ID 1545d SRT  For further assistance in diagnosing this issue or for confirmation prior to t			
		0 0	•	
	replacement of suspect components, contact the Engine Support Call Center at 1-800-477-0251.			
Verification Drive Cycle	To validate the repair, with the brakes set, turn the key to the ON position with the brakes set.			
	engine off, and allow 10 seconds for the system to initialize and run diagnostics.			
	With the brakes set, start the engine and allow it to run at idle for 2 minutes.  Back to Inde			

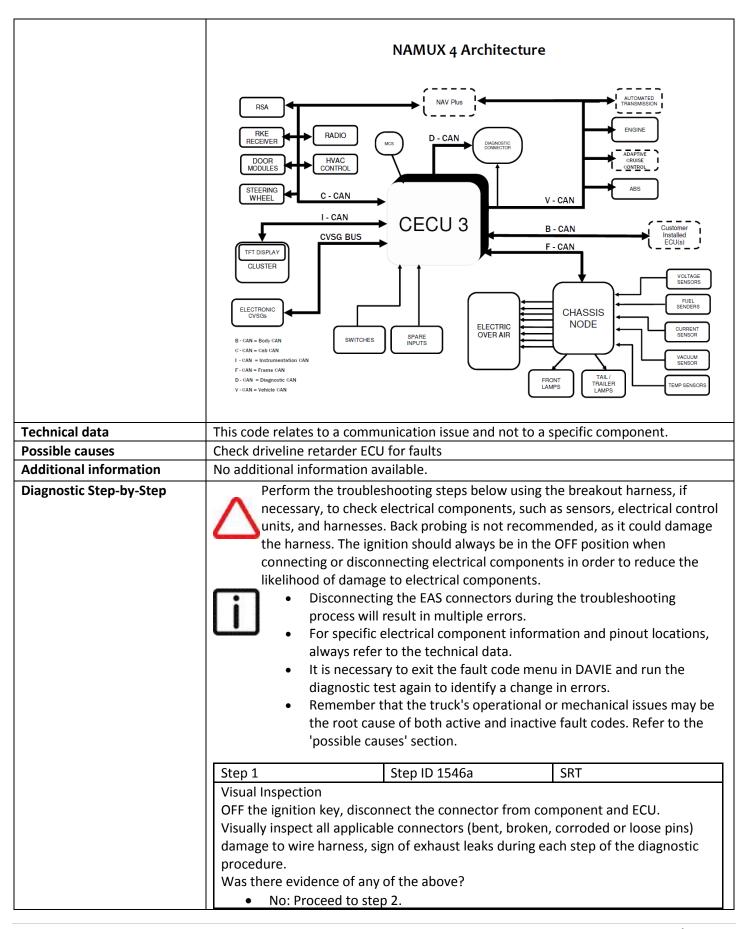


Code number	U1546		
Fault code description	CAN communication - Message (ERC1_DR) out of range - Intended retarder		
	percentage torque from retarder		
Fault code information	3 drive cycle recovery		
	Readiness group – None		
	Freeze frame type – Generic		
Description of component(s)	This code relates to a communication issue and not to a specific component.		
Location of component(s)	This code relates to a communication issue and not to a specific component.		
Diagnostic condition	This diagnostic runs continuously when the ignition is on.		
Set condition of fault code			
Reset condition of fault code	This DTC changes to inactive as soon as the error is no longer detected.		
Electrical diagram(s)			
	NAMUX 3 Architecture: 2010 B-Cab  FIREWALL  STEERING WHEEL  MCS  Diagnostic CAN  TRANSMISSION  PACCAR Display  Vehicle CAN  Vehicle CAN  Vehicle CAN  CVSG BUS  CVSG BUS  Frame CAN  FRESSURE SENSORS  FRESSURE SE		









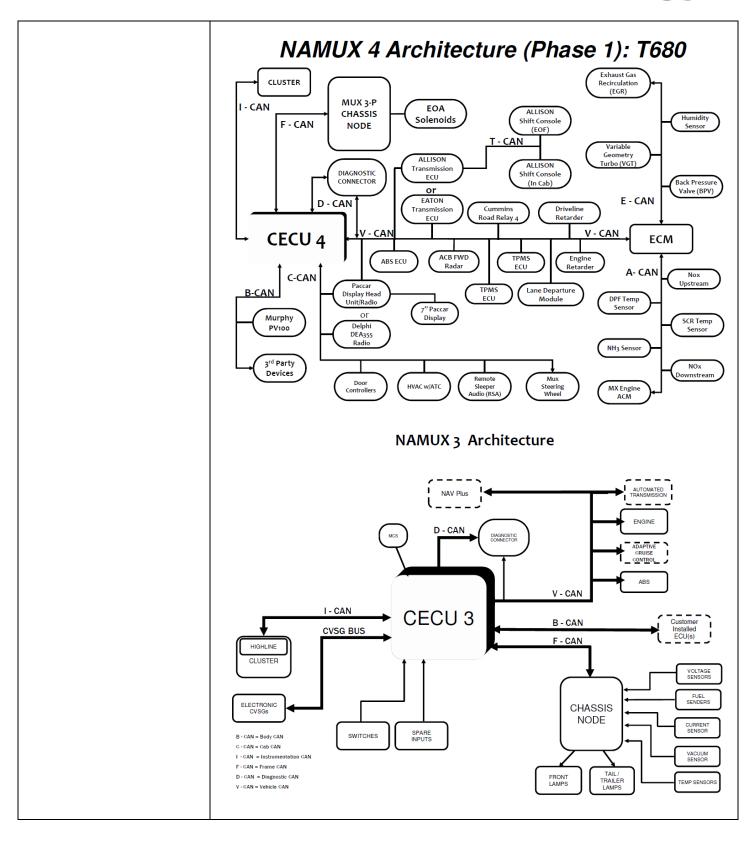


	Yes: Make the appropriate repairs or component replacements.  A NULL DAY To be a selected for the component for the component replacements.				
		heck for the presence of active			
		<del>-</del>	en this issue has been resolved.		
	If this related fault is still active, Proceed to step 2				
	Stop 2	Ston ID 1546h	SRT		
	Step 2 Data check	Step ID 1546b	SNI		
	Lookup the technical data of the specific system				
	· ·	Perform the checking data test of the specific component			
	Is test pass?				
		ed to step 3			
		eed to step4			
		·			
	Step 3	Step ID 1546c	SRT		
	Repair or replace component				
	Repair or replace the component, also check for electrical connection and				
	wiring ha	•			
	Reconnect the connector				
	ON the ignition key				
	Use DAVIE to re-c	heck for the presence of active	faults:		
	Is DTC fau	It active: Proceed to step 4			
	Is DTC fau	It inactive: Issue resolved. Clea	r inactive fault.		
	Step 4 Step ID 1546d SRT				
		ince in diagnosing this issue or f	· ·		
	replacement of suspect components, contact the Engine Support Call Center at				
	1-800-477-0251.				
Verification Drive Cycle	<b>To validate the repair, with the brakes set, turn the key to the ON process and the order of th</b>				
	engine off, and allow 10 seconds for the system to initialize and run diagnostics.				
	With the brakes set, start the engine and allow it to run at idle for 2 minutes.  Back to Indeed.				

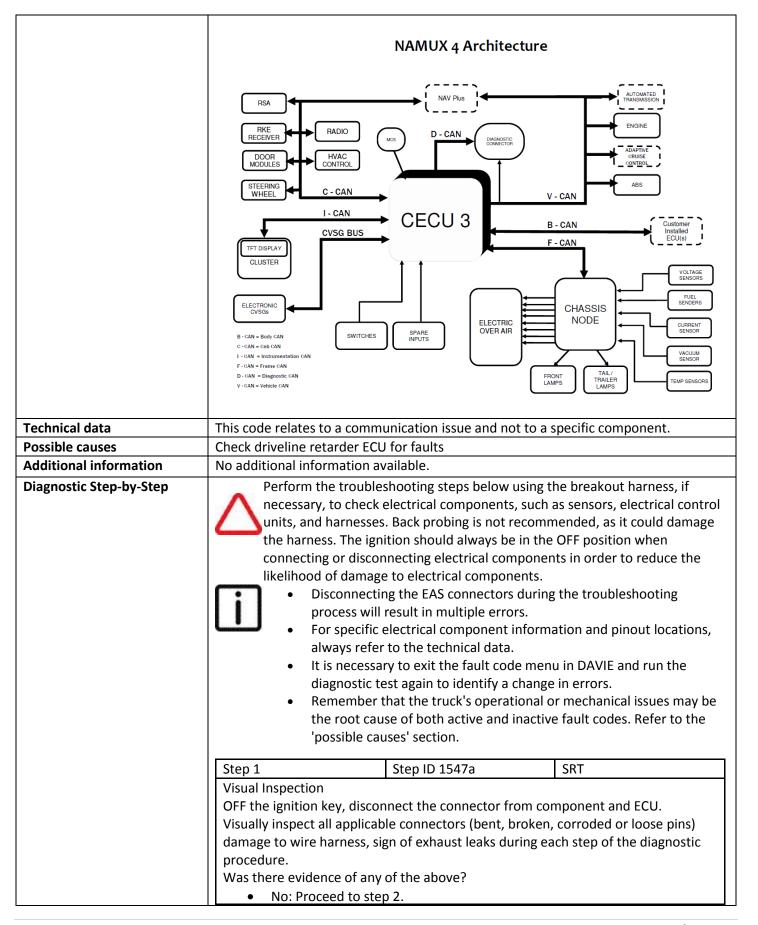


Code number	U1547		
Fault code description	CAN communication - Message (ERC1_DR) out of range - Retarder selection, non-		
	engine from retarder		
Fault code information	3 drive cycle recovery		
	Readiness group – None		
	Freeze frame type – Generic		
Description of component(s)	This code relates to a communication issue and not to a specific component.		
Location of component(s)	This code relates to a communication issue and not to a specific component.		
Diagnostic condition	This diagnostic runs continuously when the ignition is on.		
Set condition of fault code			
Reset condition of fault code	This DTC changes to inactive as soon as the error is no longer detected.		
Electrical diagram(s)			
	NAMUX 3 Architecture: 2010 B-Cab  FIREWALL  STEERING WHEEL  MCS  Diagnostic CAN  TRANSMISSION  PACCAR Display  Vehicle CAN  Vehicle CAN  Vehicle CAN  CVSG BUS  SPARE INPUTS  Frame CAN  FRESURE SENSORS  TELL SENSORS  FRESURE SENSORS  FRESURE SENSORS  TELL SENSORS  FRESURE SENSORS  FRESURE SENSORS  FRESURE SENSORS  FRESURE SENSORS  TELL SENSORS  FRESURE SENSORS  TELL SENSORS  FRONT TAIL TEMP SENSORS		









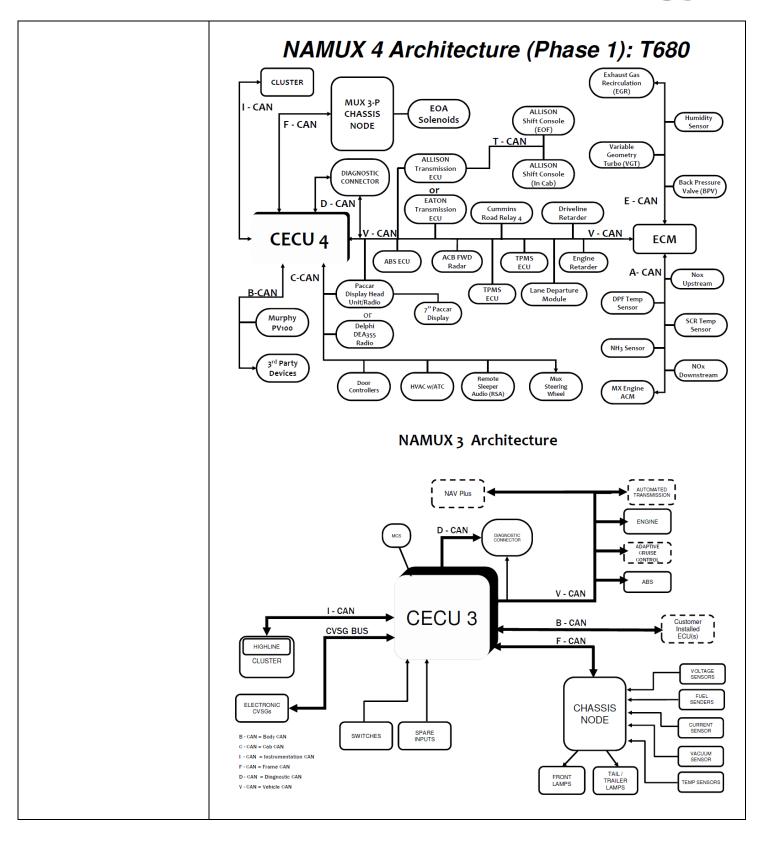


		<ul> <li>Yes: Make the appropriate repairs or component replacements.</li> <li>Use DAVIE to re-check for the presence of active faults.</li> <li>If this related fault is no longer active, then this issue has been resolved.</li> <li>If this related fault is still active, Proceed to step 2</li> </ul>			
	Step 2	Step ID 1547b	SRT		
	Data check				
	<ul> <li>Lookup the technical data of the specific system</li> </ul>				
		<ul> <li>Perform the checking data test of the specific component</li> <li>Is test pass?</li> <li>No: Proceed to step 3</li> </ul>			
	Yes : Proc	eed to step4			
	Step 3	Step 3 Step ID 1547c SRT			
	Repair or replace component				
	<ul> <li>Repair or replace the component, also check for electrical connection wiring harness.</li> </ul>				
		<ul> <li>Reconnect the connector</li> <li>ON the ignition key</li> </ul>			
	ON the ig				
	Use DAVIE to re-c	heck for the presence of active	faults:		
	Is DTC fau	Is DTC fault active: Proceed to step 4			
	Is DTC fau	Ilt inactive : Issue resolved. Clea	ar inactive fault.		
	Step 4	Step 4 Step ID 1547d SRT			
		For further assistance in diagnosing this issue or for confirmation prior to the replacement of suspect components, contact the Engine Support Call Center at 1-800-477-0251.			
Verification Drive Cycle	-	To validate the repair, with the brakes set, turn the key to the ON position with t			
	engine off, and allow 10 seconds for the system to initialize and run diag				
	With the brakes se	With the brakes set, start the engine and allow it to run at idle for 2 minutes.			
			Back to Inde		

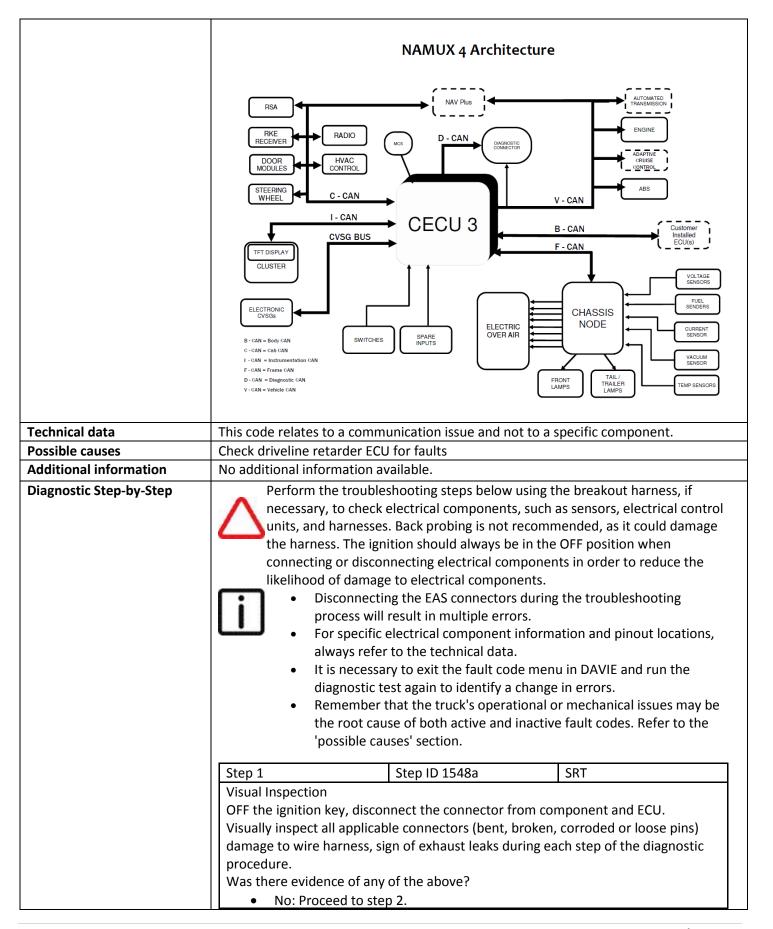


Code number	U1548		
Fault code description	CAN communication - Message (ETC1) out of range - Transmission output shaft speed		
	from transmission		
Fault code information	3 drive cycle recovery		
	Readiness group – None		
	Freeze frame type – Generic		
Description of component(s)	This code relates to a communication issue and not to a specific component.		
Location of component(s)	This code relates to a communication issue and not to a specific component.		
Diagnostic condition	This diagnostic runs continuously when the ignition is on.		
Set condition of fault code			
Reset condition of fault code	This DTC changes to inactive as soon as the error is no longer detected.		
Electrical diagram(s)			
	NAMUX 3 Architecture: 2010 B-Cab  FIREWALL  Aftertreatment CAN  Vehicle CAN  Instrumentation CAN  CVSG BUS  CVSG BUS  SPARE  SPARE  INPUTS  FIREWALL  FIREWALL  Aftertreatment CAN  LINE CONNECTOR  PACCAR  DIAGNOSTIC  CONNECTOR  PACCAR  DIAGNOSTIC  CONNECTOR  CONNECTOR  FIREWALL  Aftertreatment CAN  LINE CAN  Aftertreatment CAN  CONNECTOR  FIREWALL  Aftertreatment CAN  FIREWALL  Aftertreatment CAN  CUSTOR  CONNECTOR  FIREWALL  FIREWALL  FRANT  TAIL  TRAILER  SENSORS  SENSORS  FRESSURE  FRESSURE		









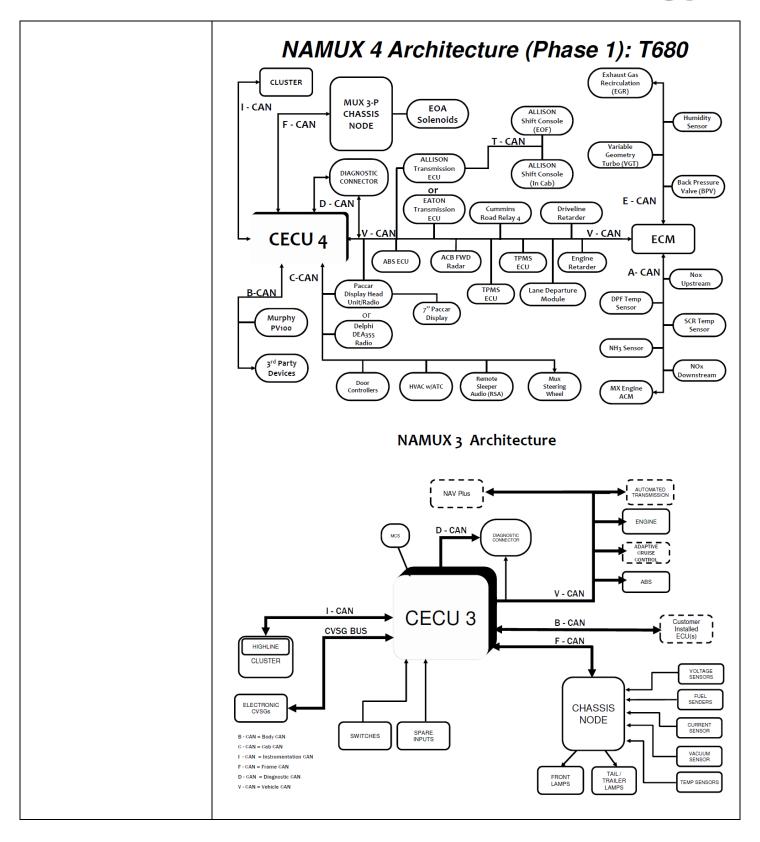


	Use DAVIE to re-  If this rel  If this rel  Step 2  Data check  Lookup t  Perform  Is test pass?  No: Proce	te the appropriate repairs or complete the appropriate repairs or complete the presence of active the ated fault is no longer active, the ated fault is still active, Proceed  Step ID 1548b  The technical data of the specific state the checking data test of the specific state of the spe	faults. en this issue has been resolved. to step 2  SRT  system
	Step 3  Repair or replace component  Repair or replace the component, also check for electrical connection and wiring harness.  Reconnect the connector  ON the ignition key  Use DAVIE to re-check for the presence of active faults:  Is DTC fault active: Proceed to step 4  Is DTC fault inactive: Issue resolved. Clear inactive fault.  Step 4  Step ID 1548d  SRT  For further assistance in diagnosing this issue or for confirmation prior to the replacement of suspect components, contact the Engine Support Call Center at 1-800-477-0251.		
Verification Drive Cycle	To validate the repair, with the brakes set, turn the key to the ON position with the engine off, and allow 10 seconds for the system to initialize and run diagnostics.  With the brakes set, start the engine and allow it to run at idle for 2 minutes.  Back to Index		

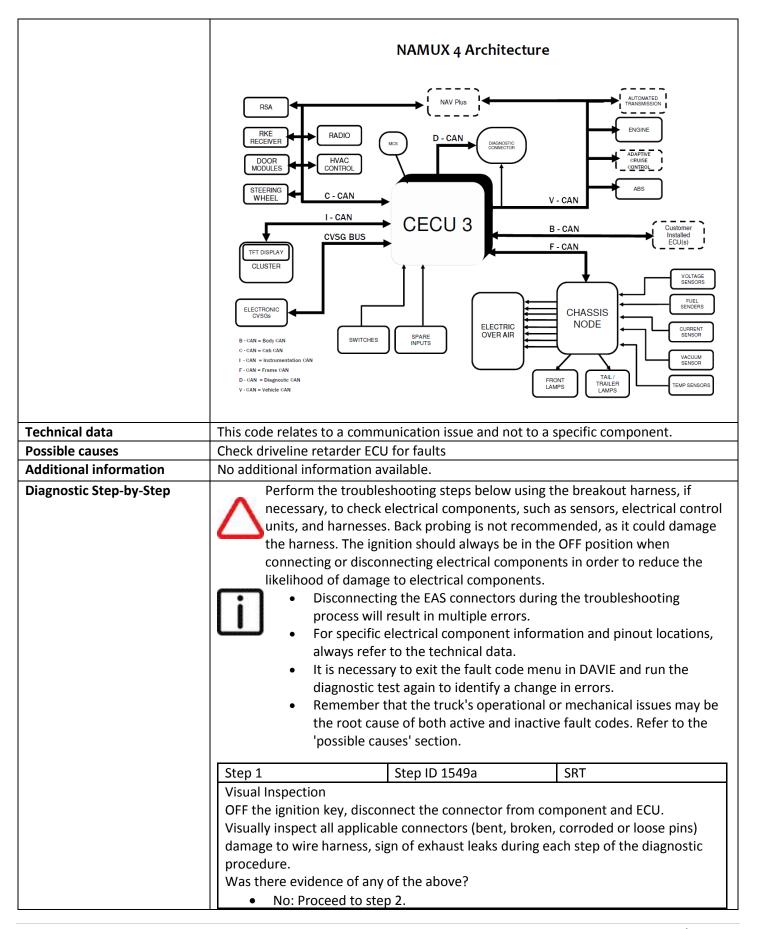


Code number	U1549		
Fault code description	CAN communication - Message (ETC1) out of range - Transmission torque converter		
	lock-up engaged from transmission		
Fault code information	3 drive cycle recovery		
	Readiness group – None		
	Freeze frame type – Generic		
Description of component(s)	This code relates to a communication issue and not to a specific component.		
Location of component(s)	This code relates to a communication issue and not to a specific component.		
Diagnostic condition	This diagnostic runs continuously when the ignition is on.		
Set condition of fault code			
Reset condition of fault code	This DTC changes to inactive as soon as the error is no longer detected.		
Electrical diagram(s)			
	NAMUX 3 Architecture: 2010 B-Cab		
	FIREWALL Aftertreatment CAN		
	Diegnostic CAN		
	STEERING TRANSMISSION ENGINE ENGINE		
	WHEEL  MCS  ABS  ABS  CRUSE  CRUSE		
	DIAGNOSTIC CONNECTOR CONTECT.		
	PACCAR LEngine CAN		
	Display		
	Cluster Cab CAN Actuator		
	Instrumentation CAN Vehicle CAN Vehicle CAN After-treatment DCU		
	CECU 3		
	CVSG BUS VOLTAGE SENSORS		
	TUEL SENDERS		
	ELECTRONIC CVSG's CURRENT		
	SENSOR SENSOR		
	SWITCHES Frame CAN CHASSIS PRESSURE SENSORS		
	SPARE INPUTS VACUUM SENSOR		
	FRONT TAIL TEMP SENSORS		
	FIREWALL LAMPS TRAILER LAMPS		
l			









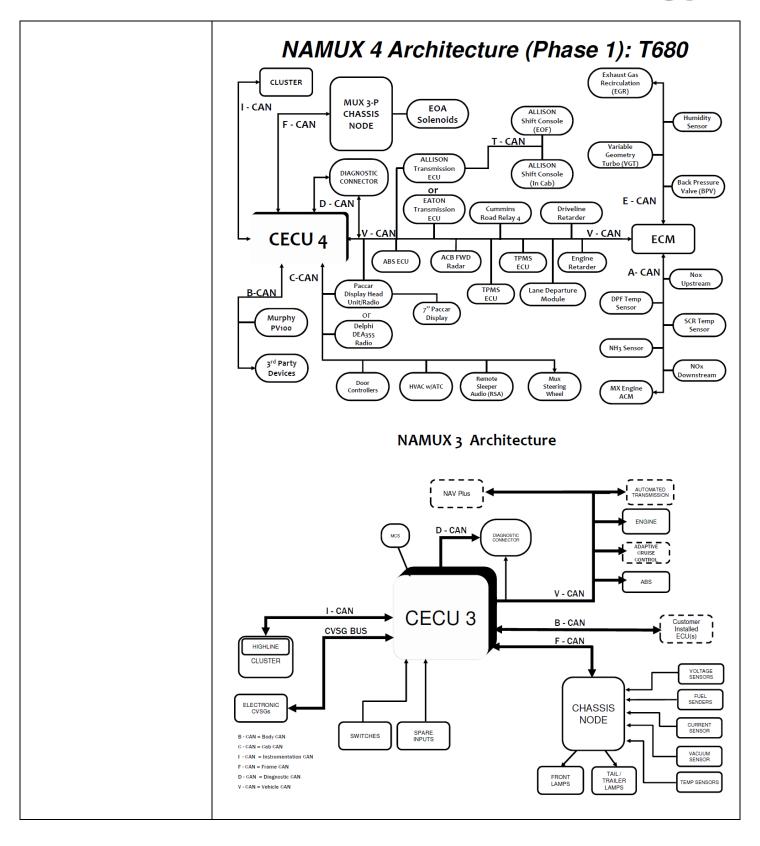


	Yes: Make the appropriate repairs or component replacements.				
		Use DAVIE to re-check for the presence of active faults.			
	If this related fault is no longer active, then this issue has been resolved.  If this related fault is at it as it is a Page and the stage?				
	If this related fault is still active, Proceed to step 2				
	Step 2	Step ID 1549b	SRT		
	Data check	1 2 2 2 2	1 -		
	Lookup th	Lookup the technical data of the specific system			
	Perform the checking data test of the specific component				
	Is test pass?	Is test pass?  • No: Proceed to step 3			
	No: Proce				
	• Yes : Prod				
	G: 0	Ls: 15.4540	COT		
	Step 3	Step ID 1549c	SRT		
	Repair or replace component				
	<ul> <li>Repair or replace the component, also check for electrical connection wiring harness .</li> <li>Reconnect the connector</li> </ul>				
	<ul> <li>ON the ignition key</li> <li>Use DAVIE to re-check for the presence of active faults:</li> <li>Is DTC fault active: Proceed to step 4</li> <li>Is DTC fault inactive: Issue resolved. Clear inactive fault.</li> </ul>				
	1.5 2 1.6 1.4				
	Step 4	Step ID 1549d	SRT		
	For further assistance in diagnosing this issue or for confirmation prior to the replacement of suspect components, contact the Engine Support Call Center at 1-800-477-0251.				
Verification Drive Cycle	-		e key to the ON position with the		
	engine off, and allow 10 seconds for the system to initialize and run diagnostics.  With the brakes set, start the engine and allow it to run at idle for 2 minutes.				
	With the brakes se	t, start the engine and allow it t	o run at idle for 2 minutes.		
	Back				

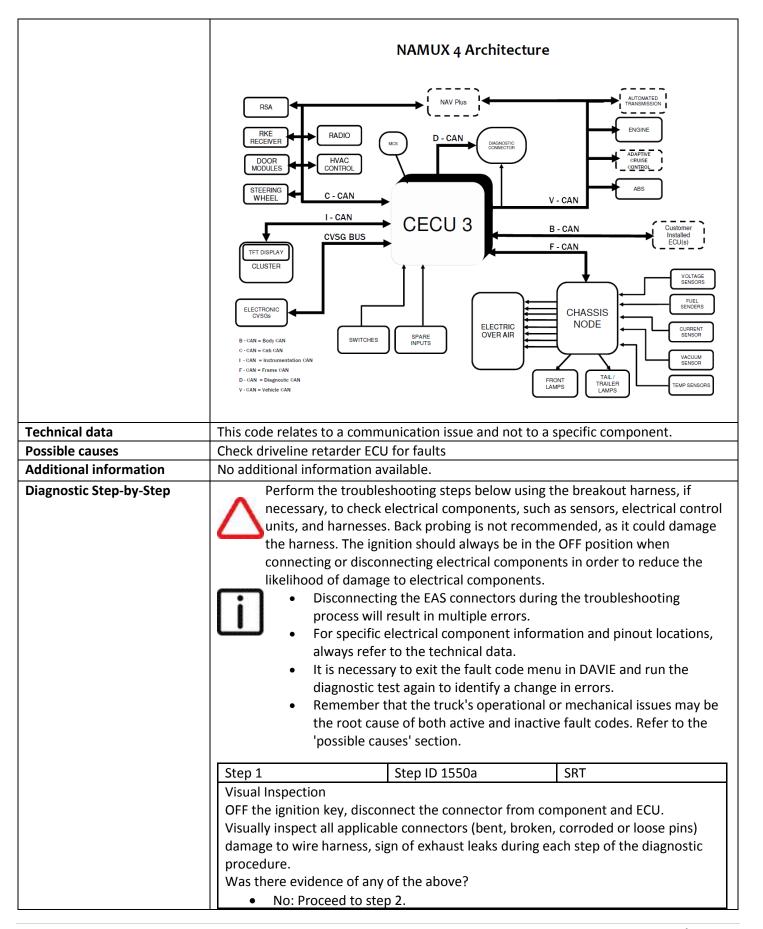


Code number	U1550		
Fault code description	CAN communication - Message (RC_DR) out of range - Reference retarder torque		
	from retarder		
Fault code information	3 drive cycle recovery		
	Readiness group – None		
	Freeze frame type – Generic		
Description of component(s)	This code relates to a communication issue and not to a specific component.		
Location of component(s)	This code relates to a communication issue and not to a specific component.		
Diagnostic condition	This diagnostic runs continuously when the ignition is on.		
Set condition of fault code			
Reset condition of fault code	This DTC changes to inactive as soon as the error is no longer detected.		
Electrical diagram(s)			
	NAMUX 3 Architecture: 2010 B-Cab		
	FIREWALL Aftertreatment CAN		
	Diagnostic CAN		
	STEERING WHEEL		
	MCS ABS ABS GRUSE CRUSE		
	DIAGNOSTIC CONNECTOR CONNECTOR		
	PACCAR PACCAR Engine CAN ▼		
	Cluster Cab CAN Display VGT Actuator		
	Instrumentation CAN Vehicle CAN After-treatment DCU		
	CECU 3 Vehicle CAN   DCU   VOLTAGE		
	CVSG BUS VOLTAGE SENSORS		
	†† † FUEL SENDERS		
	ELECTRONIC CVSG's CURRENT		
	SWITCHES Frame CAN CHASSIS PRESSURE		
	Frame CAN NODE PRESSURE SENSORS		
	SPARE VACUUM SENSOR		
	INPUTS		
	FRONT TAIL / TRALER SENSORS		
	FIREWALL LAMPS LAMPS		









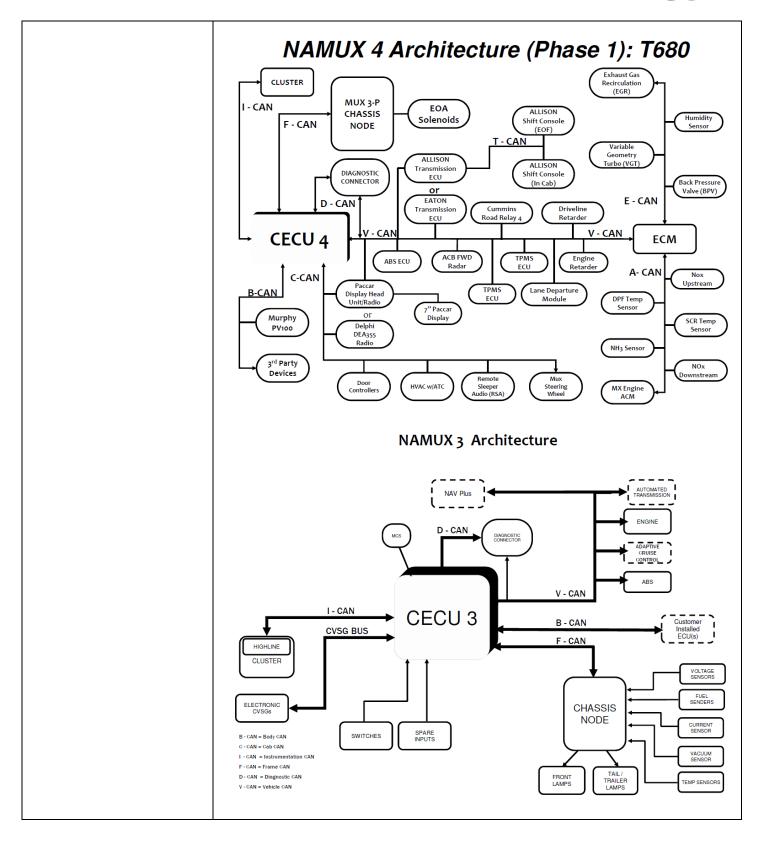


	<ul> <li>Yes: Make the appropriate repairs or component replacements.</li> <li>Use DAVIE to re-check for the presence of active faults.</li> <li>If this related fault is no longer active, then this issue has been resolved.</li> <li>If this related fault is still active, Proceed to step 2</li> </ul>			
	Step 2	Step ID 1550b	SRT	
		Data check		
	<ul> <li>Lookup the technical data of the specific system</li> <li>Perform the checking data test of the specific component</li> <li>Is test pass?</li> <li>No: Proceed to step 3</li> <li>Yes: Proceed to step4</li> </ul>			
	Step 3	Step ID 1550c	SRT	
	Repair or replace component  Repair or replace the component, also check for electrical connection and wiring harness.  Reconnect the connector  ON the ignition key Use DAVIE to re-check for the presence of active faults:  Is DTC fault active: Proceed to step 4			
		Is DTC fault active. Proceed to step 4      Is DTC fault inactive : Issue resolved. Clear inactive fault.		
	Step 4	Step ID 1550d	SRT	
	For further assistance in diagnosing this issue or for confirmation prior to the replacement of suspect components, contact the Engine Support Call Center at 1-800-477-0251.			
Verification Drive Cycle	To validate the repair, with the brakes set, turn the key to the ON position with the engine off, and allow 10 seconds for the system to initialize and run diagnostics. With the brakes set, start the engine and allow it to run at idle for 2 minutes.			
			Back to Index	

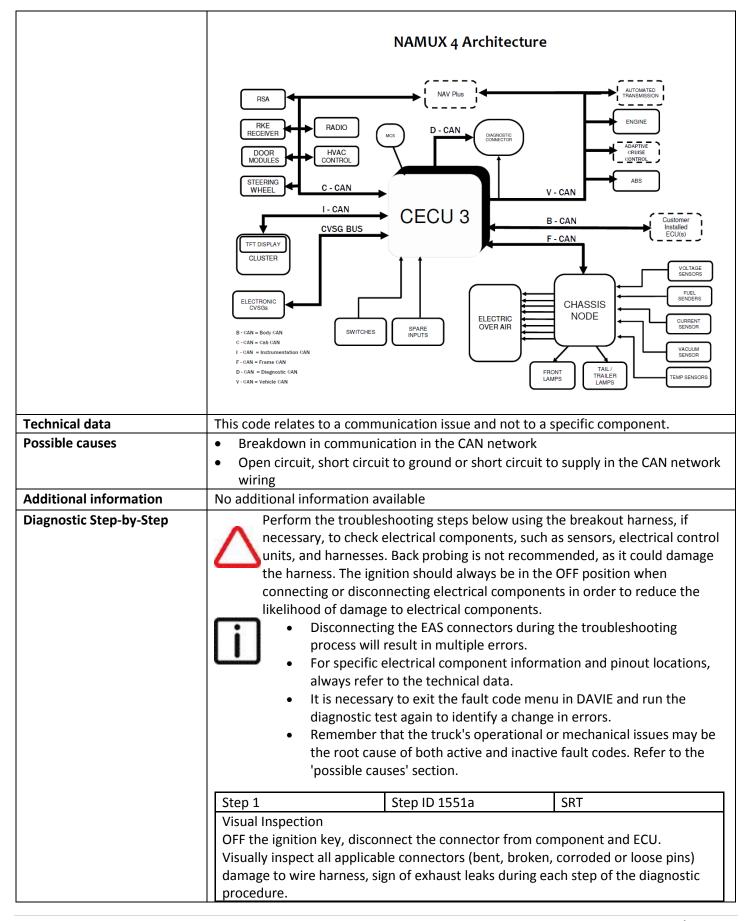


Code number	U1551		
Fault code description	CAN Communication – Message (VDC1) out of range – Roll-over-protection brake		
	control active from brake system		
Fault code information	3 drive cycle recovery		
	Readiness group – None		
	Freeze frame type – Generic		
Description of component(s)	This code relates to a communication issue and not to a specific component.		
Location of component(s)	This code relates to a communication issue and not to a specific component.		
Diagnostic condition	This diagnostic runs continuously when the ignition is on.		
Set condition of fault code			
Reset condition of fault code	This DTC changes to inactive as soon as the error is no longer detected.		
Electrical diagram(s)			
	NAMUX 3 Architecture: 2010 B-Cab  FIREWALL  Aftertreatment CAN  I AUTO  ITRANSMISSION, WHEEL  ABS  DIAGNOSTIC  CONNECTOR  PACCAR DISPLAY  Vehicle CAN  Vehicle CAN  Vehicle CAN  Vehicle CAN  Vehicle CAN  Vehicle CAN  CUSG BUS  SPARE INPUTS  Frame CAN  FIREWALL  FRONT  TABLE TRANSIS  FRONT  TEMP SENSORS  TEMP SENSORS		









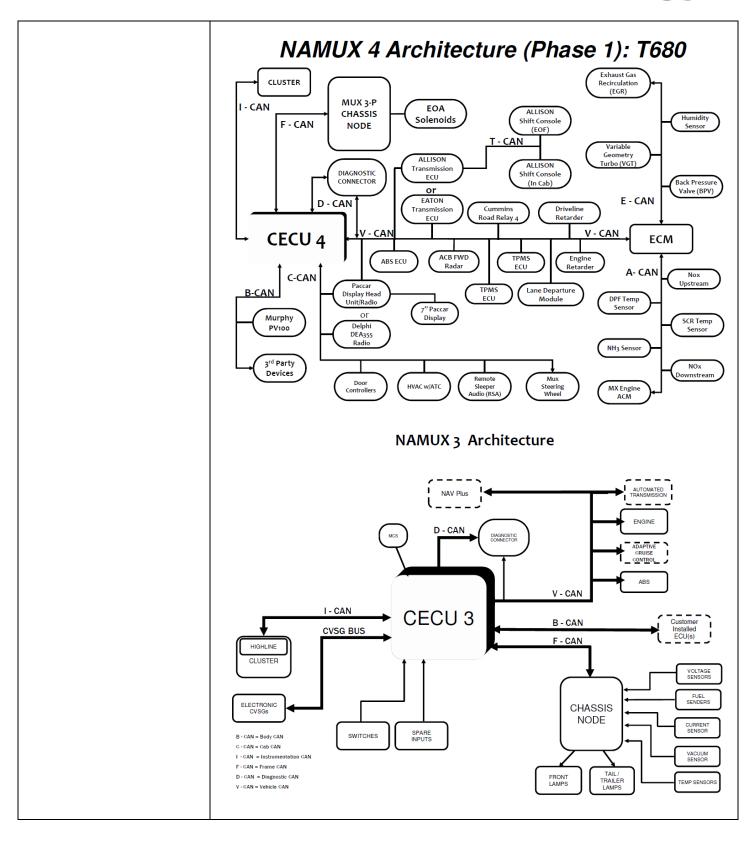


			•	
	Was there evidence of	Was there evidence of any of the above?		
	<ul> <li>No: Proceed to step 2.</li> <li>Yes: Make the appropriate repairs or component replacements.</li> <li>Use DAVIE to re-check for the presence of active faults.</li> <li>If this related fault is no longer active, then this issue has been resolved.</li> <li>If this related fault is still active, Proceed to step 2</li> </ul>			
	Step 2	Step ID 1551b	SRT	
	Data check			
	<ul> <li>Lookup the technical data of the specific system</li> <li>Perform the checking data test of the specific component</li> </ul>			
	Is test pass?			
	<ul><li>No: Proceed to step 3</li><li>Yes: Proceed to step4</li></ul>			
	Step 3	Step ID 1551c	SRT	
	Repair or replace comp	onent		
	Repair or replace the component, also check for electrical connection a			
	wiring harness.			
	<ul><li>Reconnect the connector</li><li>ON the ignition key</li></ul>			
	Use DAVIE to re-check	<ul> <li>Use DAVIE to re-check for the presence of active faults:</li> <li>Is DTC fault active: Proceed to step 4</li> <li>Is DTC fault inactive: Issue resolved. Clear inactive fault.</li> </ul>		
	Is DTC fault act			
	Is DTC fault ina			
	Step 4	Step ID 1551d	SRT	
			for confirmation prior to the	
	replacement of suspect components, contact the Engine Support Call Center at			
	1-800-477-0251.			
Verification Drive Cycle	-		e key to the ON position with the	
	engine off, and allow 10 seconds for the system to initialize and run diagnostics.			
	With the brakes set, start the engine and allow it to run at idle for 2 minutes.			
			Back to Index	

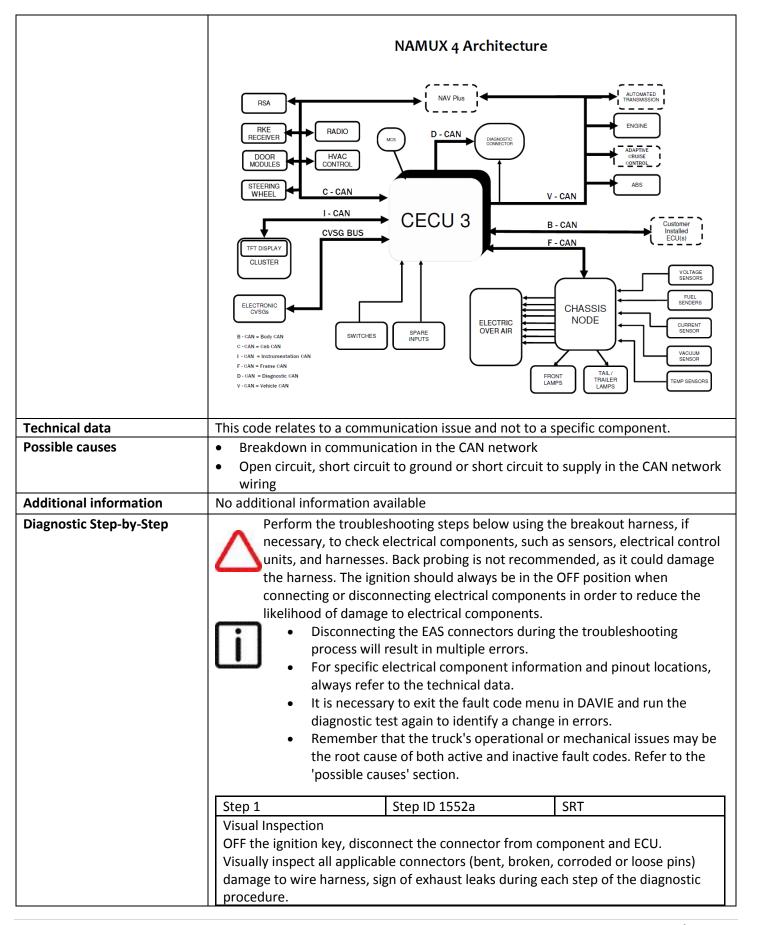


Code number	U1552		
Fault code description	CAN Communication – Message (VDC1) out of range – Roll-over-protection engine		
	control active from brake system		
Fault code information	3 drive cycle recovery		
	Readiness group – None		
	Freeze frame type – Generic		
Description of component(s)	This code relates to a communication issue and not to a specific component.		
Location of component(s)	This code relates to a communication issue and not to a specific component.		
Diagnostic condition	This diagnostic runs continuously when the ignition is on.		
Set condition of fault code			
Reset condition of fault code	This DTC changes to inactive as soon as the error is no longer detected.		
Electrical diagram(s)			
	NAMUX 3 Architecture: 2010 B-Cab  FIREWALL  STEERING WHEEL  MCS  Diagnostic CAN  ITRANSMISSION  PACCAR Display  Vehicle CAN  Vehicle CAN  CVSG BUS  CVSG BUS  Frame CAN  FRESSURE SENSORS  FRESU		









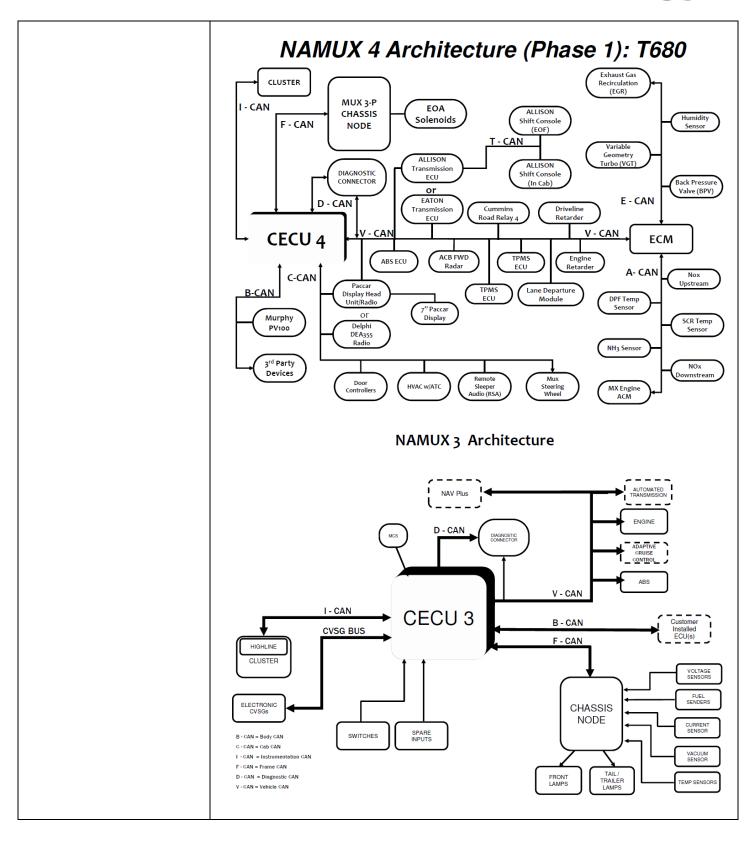


	11	f f:1 1 2		
		Was there evidence of any of the above?		
		110.1.100000 to 010p =		
	<ul> <li>Yes: Make the appropriate repairs or component replacements.</li> <li>Use DAVIE to re-check for the presence of active faults.</li> <li>If this related fault is no longer active, then this issue has been resolved.</li> </ul>			
	<ul> <li>If this relate</li> </ul>	d fault is still active, Proceed	to step 2	
	Step 2	Step ID 1552b	SRT	
	Data check			
	Lookup the technical data of the specific system			
	<ul> <li>Perform the</li> </ul>	Perform the checking data test of the specific component		
	Is test pass?			
	No: Proceed	11		
	Yes : Procee	ed to step4		
		·		
	Step 3 Step ID 1552c SRT			
	Repair or replace component  Repair or replace the component, also check for electrical connection and wiring harness.  Reconnect the connector  ON the ignition key Use DAVIE to re-check for the presence of active faults:			
	<ul> <li>Is DTC fault</li> </ul>			
	Is DTC fault	inactive: Issue resolved. Clear	rinactive fault.	
	Step 4 Step ID 1552d SRT  For further assistance in diagnosing this issue or for confirmation prior to the replacement of suspect components, contact the Engine Support Call Center at			
	1-800-477-0251.	, ,		
Verification Drive Cycle	To validate the repair	, with the brakes set, turn the	e key to the ON position with the	
-			initialize and run diagnostics.	
	_	start the engine and allow it to	_	
			Back to Index	

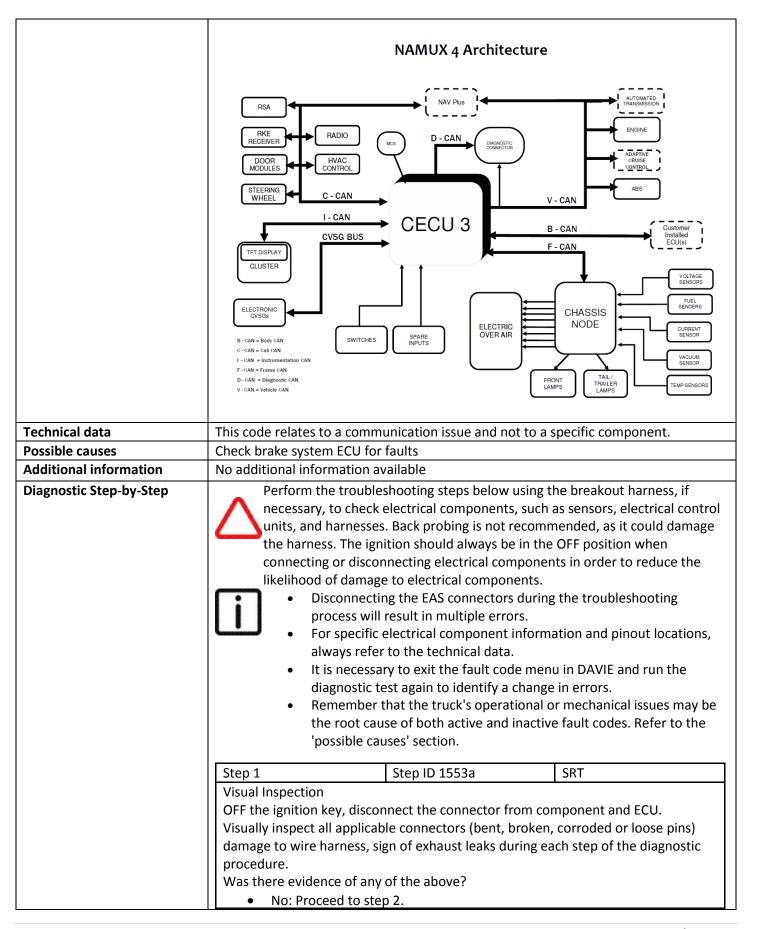


Code number	U1553		
Fault code description	CAN Communication – Message (VDC1) out of range – Yaw control brake control		
	active from brake system		
Fault code information	3 drive cycle recovery		
	Readiness group – None		
	Freeze frame type – Generic		
Description of component(s)	This code relates to a communication issue and not to a specific component.		
Location of component(s)	This code relates to a communication issue and not to a specific component.		
Diagnostic condition	This diagnostic runs continuously when the ignition is on.		
Set condition of fault code			
Reset condition of fault code	This DTC changes to inactive as soon as the error is no longer detected.		
Electrical diagram(s)			
	NAMUX 3 Architecture: 2010 B-Cab  FIREWALL  STEERING WHEEL  MCS  DIAGNOSTIC CONNECTOR  PACCAR DISPISE CONNECTOR  PACCAR DISPISE CHUSTON CONNECTOR  PACCAR DISPISE CHUSTON CONNECTOR  PACCAR DISPISE CHUSTON CONNECTOR  PACCAR DISPISE CHUSTON CONNECTOR  FUEL CURRENT SENSOR  SPARE INPUTS  FRANKER  SPARE INPUTS  FRANKER  TALL TRAILER  LAMPS  TEMP  SENSORS		









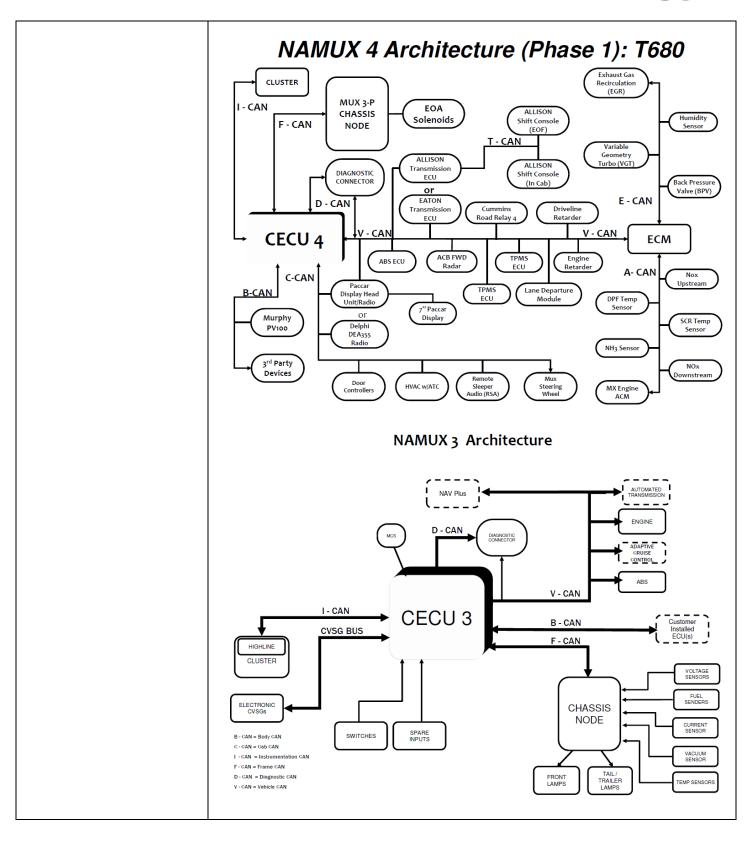


	Use DAVIE to re-	: Make the appropriate repairs or component replacements. to re-check for the presence of active faults. his related fault is no longer active, then this issue has been resolved. his related fault is still active, Proceed to step 2		
	• If this rel	ated fault is still active, Proceed	to step 2	
	Step 2	Step ID 1553b	SRT	
	Data check	· ·		
	Lookup the technical data of the specific system			
	Perform	the checking data test of the spe	cific component	
	Is test pass?			
	No: Proce	eed to step 3		
	Yes : Pro	ceed to step4		
	Step 3	Step ID 1553c	SRT	
	Repair or replace component			
	Repair or replace the component, also check for electrical connection and			
	wiring ha			
	Reconnect the connector  ON the ignition key.			
	<ul> <li>ON the ignition key</li> <li>Use DAVIE to re-check for the presence of active faults:</li> </ul>			
		•	raults:	
		ult active: Proceed to step 4	in a skin of family	
	• IS DIC ta	ult inactive: Issue resolved. Clear	inactive fault.	
	Step 4 Step ID 1553d SRT			
	For further assistance in diagnosing this issue or for confirmation prior to the replacement of suspect components, contact the Engine Support Call Center at			
	1-800-477-0251.			
Verification Drive Cycle	To validate the repair, with the brakes set, turn the key to the ON position with the engine off, and allow 10 seconds for the system to initialize and run diagnostics.  With the brakes set, start the engine and allow it to run at idle for 2 minutes.			
		-	Back to Ind	

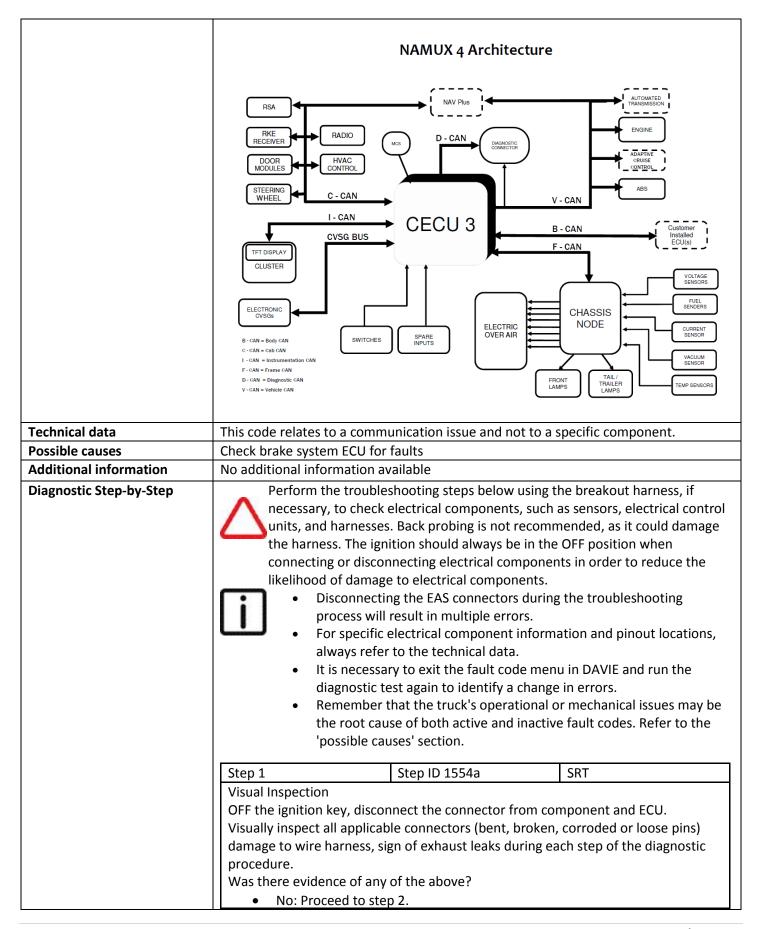


Code number	U1554		
Fault code description	CAN Communication – Message (VDC1) out of range – Yaw control engine control		
	active from brake system		
Fault code information	3 drive cycle recovery		
	Readiness group – None		
	Freeze frame type – Generic		
Description of component(s)	This code relates to a communication issue and not to a specific component.		
Location of component(s)	This code relates to a communication issue and not to a specific component.		
Diagnostic condition	This diagnostic runs continuously when the ignition is on.		
Set condition of fault code			
Reset condition of fault code	This DTC changes to inactive as soon as the error is no longer detected.		
Electrical diagram(s)			
	NAMUX 3 Architecture: 2010 B-Cab  FIREWALL  STEERING WHEEL  MCS  Diagnostic CAN  INSTRUMENTAL CONNECTOR  PACCAR Display  Vehicle CAN  Vehicle CAN  CVSG BUS  CVSG BUS  Frame CAN  FREWALL  FRONT  TAIL  TAIL  TAIL  TEMP SENSORS  FRESSURE SENSORS  FRESSURE SENSORS  FRESSURE SENSORS  FRESSURE SENSORS  FRESSURE SENSORS  FRESSURE SENSORS  TEMP TAIL TAIL TEMP SENSORS		









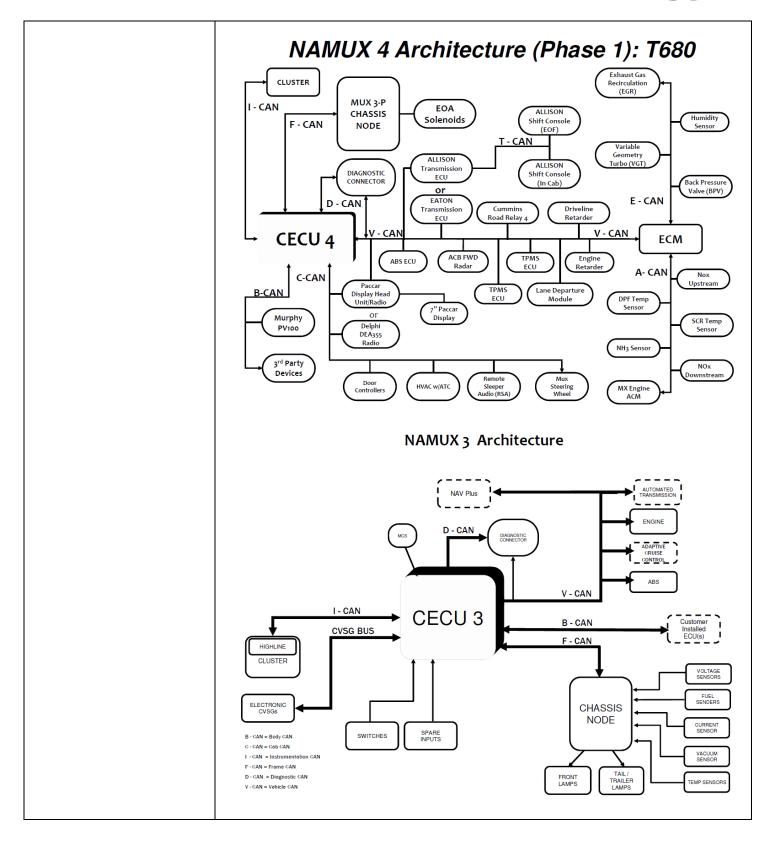


		te the appropriate repairs or com	· · · · · · · · · · · · · · · · · · ·	
	• If this rel	<ul> <li>Use DAVIE to re-check for the presence of active faults.</li> <li>If this related fault is no longer active, then this issue has been resolved.</li> <li>If this related fault is still active, Proceed to step 2</li> </ul>		
	Step 2	Step ID 1554b	SRT	
	Data check		•	
	Lookup the technical data of the specific system			
		the checking data test of the spe	cific component	
	Is test pass?			
		eed to step 3		
	• Yes : Pro	ceed to step4		
	Step 3	Step ID 1554c	SRT	
	Repair or replace component			
	Repair or replace the component, also check for electrical connection and wiring harness.			
	Reconne	ct the connector		
	ON the ignition key			
	Use DAVIE to re-check for the presence of active faults:			
	Is DTC fault active: Proceed to step 4			
	Is DTC fa	ult inactive: Issue resolved. Clear	inactive fault.	
	Step 4	Step ID 1554d	SRT	
	For further assistance in diagnosing this issue or for confirmation prior to the replacement of suspect components, contact the Engine Support Call Center at			
	1-800-477-0251.			
Verification Drive Cycle	To validate the repair, with the brakes set, turn the key to the ON position with engine off, and allow 10 seconds for the system to initialize and run diagnostics. With the brakes set, start the engine and allow it to run at idle for 2 minutes.		initialize and run diagnostics.	
	with the brakes set, start the engine and allow it to re			

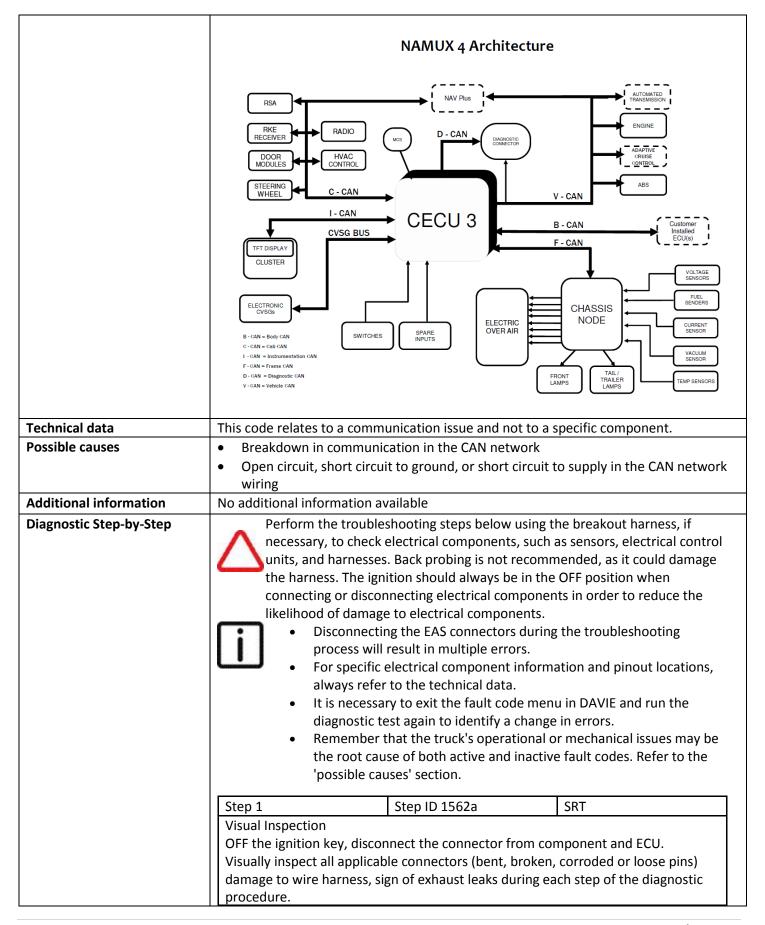


Code number	U1562		
Fault code description	CAN communication - Message (ACM_Limits) out of range - Turbine outlet flow low		
	target request from emission system		
Fault code information	1 trip MIL		
	3 drive cycle recovery		
	Readiness group – None		
	Freeze frame type – Generic		
Description of component(s)	This code relates to a communication issue and not to a specific component.		
Location of component(s)	This code relates to a communication issue and not to a specific component.		
Diagnostic condition	This diagnostic runs continuously when the ignition is on.		
Set condition of fault code			
Reset condition of fault code	This DTC changes to inactive as soon as the error is no longer detected.		
Electrical diagram(s)			
	NAMUX 3 Architecture: 2010 B-Cab		
	FIREWALL Aftertreatment CAN		
	Biodraphia CAN TOTAL		
	STEERING TRANSMISSION FINANCIAL ENGINE		
	WHEEL MCS ABS ABS CRUSE CRUSE		
	DIAGNOSTIC CONNECTOR CONTROL		
	PACCAR PACCAR Engine CAN		
	Display		
	Cluster Cab CAN Actuator		
	Instrumentation CAN Vehicle CAN Vehicle CAN		
	CECU 3		
	CVSG BUS VOLTAGE SENSORS		
	FUEL		
	ELECTRONIC CVSG's CURRENT		
	SENSOR SENSOR		
	SWITCHES Frame CAN CHASSIS PRESSURE SENSORS		
	SPARE INPUTS VACUUM SENSOR		
	FRONT TAIL / TEMP SENSORS		
	FIREWALL LAMPS TRAILER LAMPS		









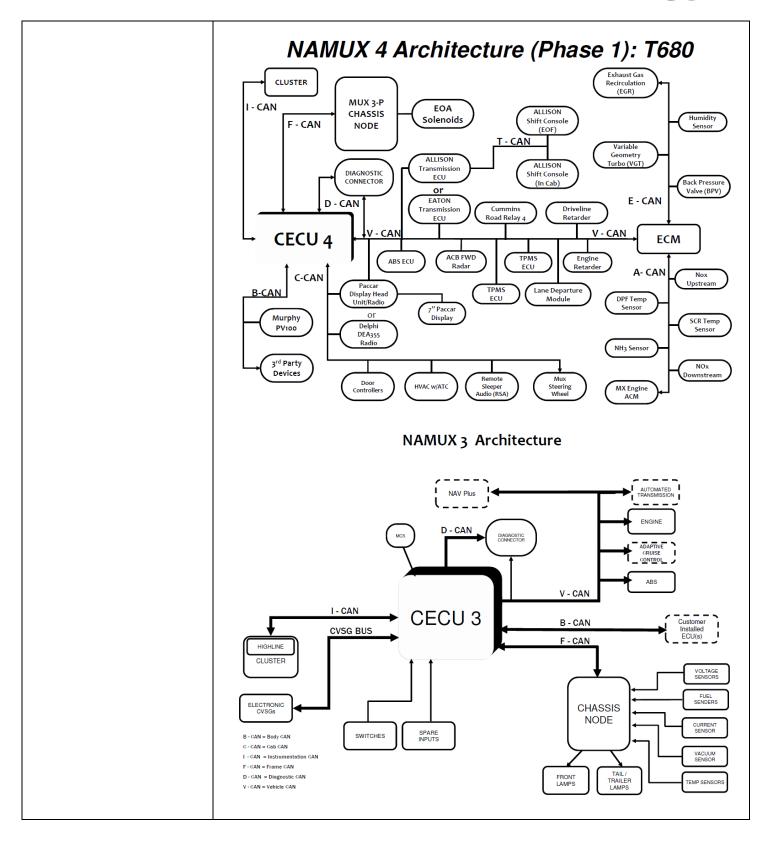


	Was there evidenc	Was there evidence of any of the above?		
	No: Procee	ed to step 2.		
	Yes: Make the appropriate repairs or component replacements.			
	Use DAVIE to re-ch	eck for the presence of active fa	ults.	
	<ul> <li>If this related fault is no longer active, then this issue has been resolved.</li> </ul>			
	<ul> <li>If this relat</li> </ul>	ed fault is still active, Proceed to	step 2	
	Step 2	Step ID 1562b	SRT	
	Data check			
	Lookup the technical data of the specific system			
	Perform th	e checking data test of the speci	fic component	
	Is test pass?			
	<ul><li>No: Proceed to step 3</li><li>Yes: Proceed to step4</li></ul>			
	Step 3	Step ID 1562c	SRT	
	Repair or replace of	•		
		eplace the component, also che	ck for electrical connection and	
	<ul><li>wiring harness.</li><li>Reconnect the connector</li><li>ON the ignition key</li></ul>			
		eck for the presence of active fa	ults:	
		t active: Proceed to step 4		
	Is DTC fault	t inactive: Issue resolved. Clear i	nactive fault.	
	Step 4	Step ID 1562d	SRT	
	For further assistar	nce in diagnosing this issue or fo	r confirmation prior to the	
	replacement of sus	spect components, contact the E	ngine Support Call Center at	
	1-800-477-0251.			
Verification Drive Cycle	To verify the repair: With the brakes set, turn the key to the ON position with the engine off, and allow 10 seconds for the system to initialize and run diagnostics			
	With the brakes set,	start the engine and allow it to	run at idle for 2 minutes	
			Desire to de	
			Back to Index	

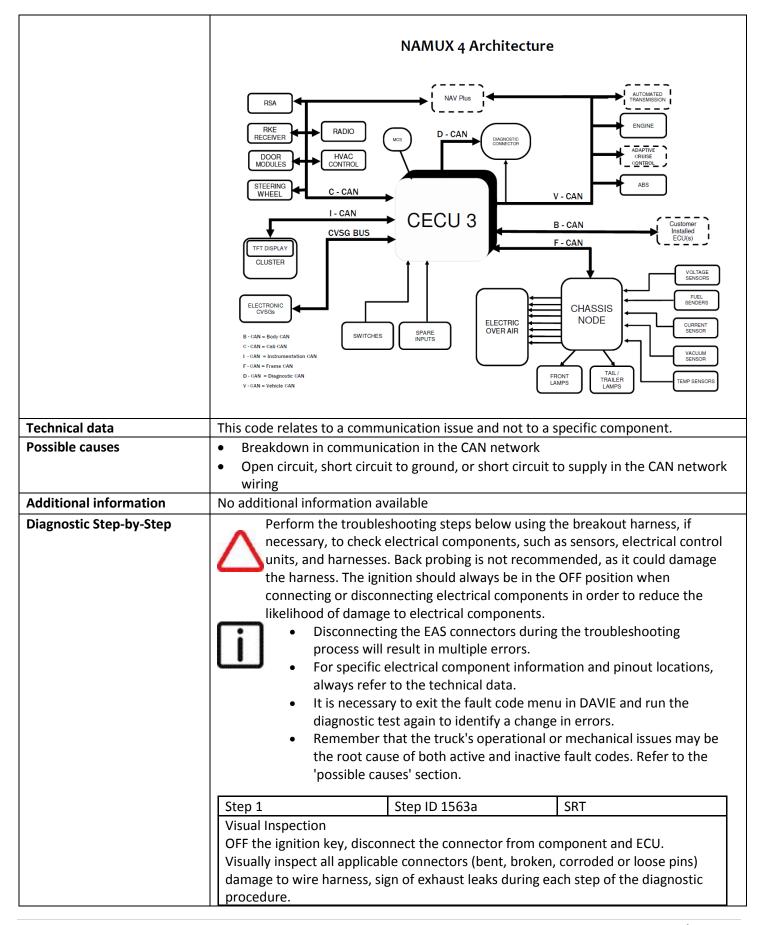


Code number	U1563		
Fault code description	CAN communication - Message (ACM_Limits) out of range - Turbine outlet flow low		
	limit request from emission system		
Fault code information	1 trip MIL		
	3 drive cycle recovery		
	Readiness group – None		
	Freeze frame type – Generic		
Description of component(s)	This code relates to a communication issue and not to a specific component.		
Location of component(s)	This code relates to a communication issue and not to a specific component.		
Diagnostic condition	This diagnostic runs continuously when the ignition is on.		
Set condition of fault code			
Reset condition of fault code	This DTC changes to inactive as soon as the error is no longer detected.		
Electrical diagram(s)			
	NAMUX 3 Architecture: 2010 B-Cab		
	FIREWALL Aftertreatment CAN		
	STEERING Diagnostic CAN TRANSMISSION ENGINE		
	STEERING WHEEL TRANSMISSION TRA		
	MCS ABS ABS CRUSE I		
	DIAGNOSTIC CONNECTOR CONNECTOR		
	PACCAR Display Co. To Co.		
	Cluster Cab CAN VGT Actuator		
	Instrumentation CAN Vehicle CAN I		
	CVSG BUS VOLTAGE SENSORS		
	. FUEL		
	SENDERS SENDERS		
	CVSG's CURRENT SENSOR		
	SWITCHES Frame CAN CHASSIS PRESSURE		
	NODE SENSORS		
	SPARE INPUTS VACUUM SENSOR		
	TEMP		
	FRONT LAMPS FALLER LAMPS		
	1		









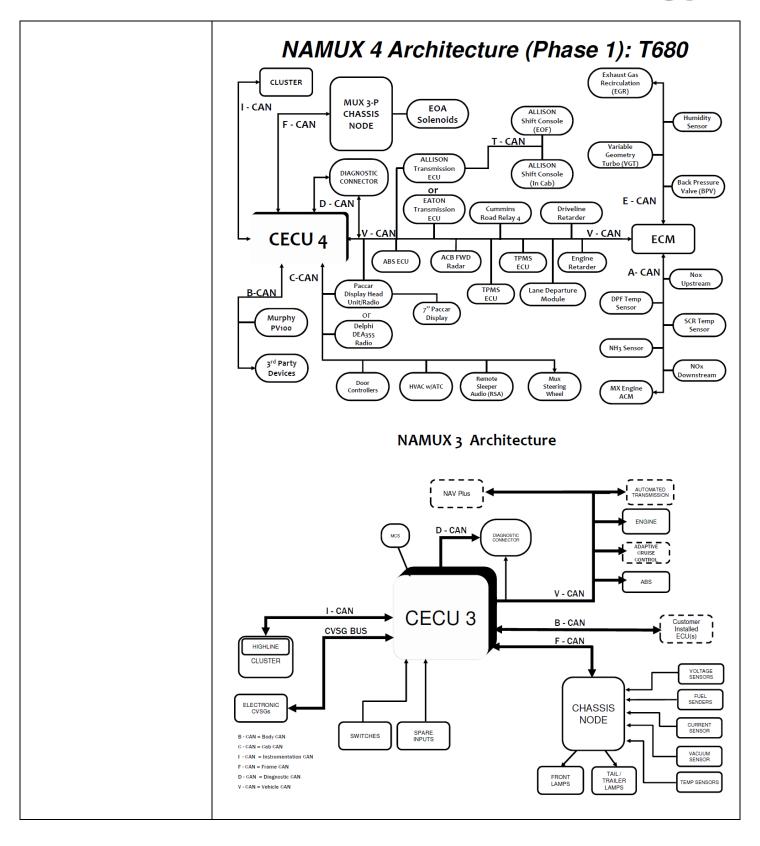


	Was there evidence	Was there evidence of any of the above?		
	No: Procee	ed to step 2.		
	Yes: Make the appropriate repairs or component replacements.			
	Use DAVIE to re-ch	eck for the presence of active fa	ctive faults.	
	<ul> <li>If this related fault is no longer active, then this issue has been resolved.</li> </ul>			
	<ul> <li>If this relat</li> </ul>	ed fault is still active, Proceed to	step 2	
	Step 2	Step ID 1563b	SRT	
	Data check			
	Lookup the	Lookup the technical data of the specific system		
	Perform th	e checking data test of the spec	ific component	
	Is test pass?			
	<ul><li>No: Proceed to step 3</li><li>Yes: Proceed to step4</li></ul>			
	Step 3	Step ID 1563c	SRT	
	Repair or replace of	•		
		eplace the component, also che	ck for electrical connection and	
	<ul><li>wiring harness.</li><li>Reconnect the connector</li></ul>			
	ON the ign	•		
		eck for the presence of active fa	ults:	
		t active: Proceed to step 4		
	Is DTC faul	t inactive: Issue resolved. Clear i	nactive fault.	
	Step 4	Step ID 1563d	SRT	
	For further assista	nce in diagnosing this issue or fo	r confirmation prior to the	
	replacement of suspect components, contact the Engine Support Call Center at			
	1-800-477-0251.			
Verification Drive Cycle	To verify the repair: With the brakes set, turn the key to the ON position with the engine off, and allow 10 seconds for the system to initialize and run diagnostics			
	With the brakes set	start the engine and allow it to	run at idle for 2 minutes	
			Dealtha Indon	
			Back to Index	

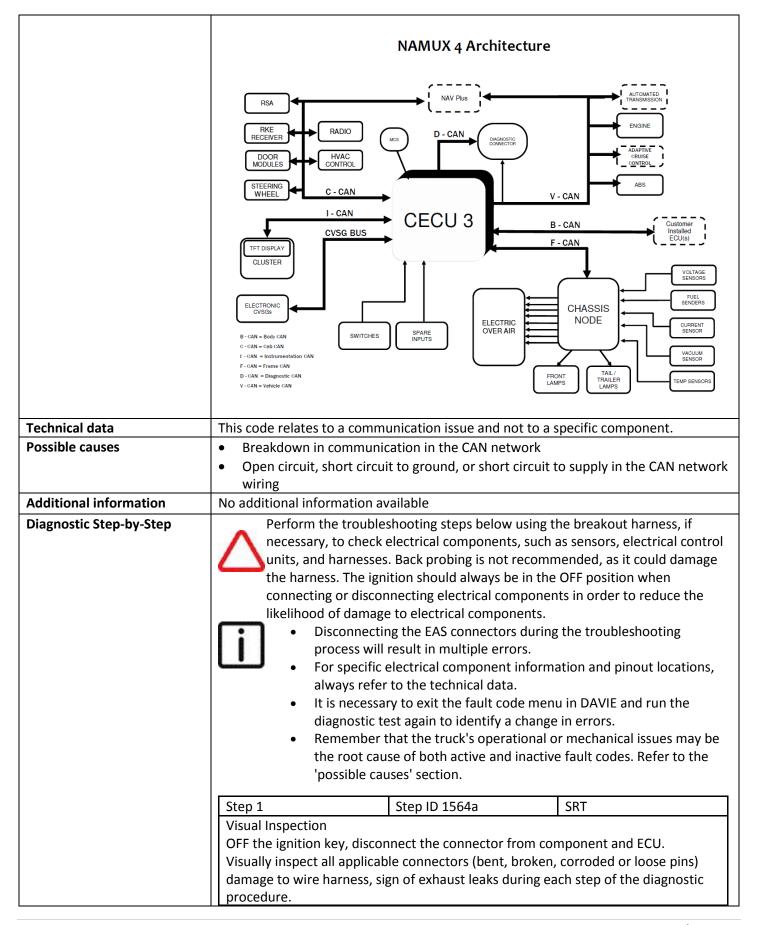


Cluster  Cab CAN  Cluster  Cab CAN  CVSG BUS  Diagnostic CAN  TRANSMISSION  PACCAR  Display  Vehicle CAN  Vehicle CAN  Transmission  After-trea  CRUSE  CONTECL  Vehicle CAN  Transmission  Vehicle CAN  Transmission  Transmissio	Code number	U1564		
Fault code information  1 trip MIL 3 drive cycle recovery Readiness group – None Freeze frame type – Generic  Description of component(s) This code relates to a communication issue and not to a specific component.  Diagnostic condition This diagnostic runs continuously when the ignition is on.  Set condition of fault code Reset condition of fault code Reset condition of fault code Electrical diagram(s)  NAMUX 3 Architecture: 2010 B-Cab  FIREWALL Aftertreatmen  Diagnostic CAN USA  FIREWALL Aftertreatmen  Diagnostic CAN USA  CECU 3  Vehicle CAN  Vehicle CAN  Vehicle CAN  ON  Aftertreatmen  Aftertreatmen  Aftertreatmen  Cab CAN  Vehicle CAN  ON  CECU 3  Vehicle CAN  ON  Aftertreatmen  Aftertreatmen  Aftertreatmen  Cab CAN  ON  CECU 3  Vehicle CAN  ON  CECU 3  Vehicle CAN  ON  Aftertreatmen  Aftertreatmen  Aftertreatmen  ON  Aftertreatmen  Aftertreatmen  ON  CECU 3  ON  ON  CECU 3  ON  ON  CECU 3  ON  ON  ON  Aftertreatmen  Aftertreatmen  ON  ON  ON  ON  ON  ON  ON  ON  ON  O	Fault code description	CAN communication - Message (ACM_Limits) out of range - Turbine outlet		
3 drive cycle recovery Readiness group – None Freeze frame type – Generic  Description of component(s)  This code relates to a communication issue and not to a specific component.  Diagnostic condition  Set condition of fault code  Reset condition of fault code  Reset condition of fault code  Electrical diagram(s)  NAMUX 3 Architecture: 2010 B-Cab  FIREWALL Aftertreatmen  Diagnostic CAN  STEERING  MCS  Diagnostic CAN  OCT  Actualor  LOCATION  LOCATION  LOCATION  This code relates to a communication issue and not to a specific component.  This code relates to a communication issue and not to a specific component.  This code relates to a communication issue and not to a specific component.  This code relates to a communication issue and not to a specific component.  This diagnostic runs continuously when the ignition is on.  Set condition of fault code  Reset condition of fault code  This DTC changes to inactive as soon as the error is no longer detected.  Cluster  Diagnostic CAN  OCT  Actualor  LOCATION  L		temperature low target torque from emission system		
Readiness group – None Freeze frame type – Generic  Description of component(s)  This code relates to a communication issue and not to a specific component.  Location of component(s)  This code relates to a communication issue and not to a specific component.  Diagnostic condition  Set condition of fault code  Reset condition of fault code  Electrical diagram(s)  This DTC changes to inactive as soon as the error is no longer detected.  NAMUX 3 Architecture: 2010 B-Cab  FIREWALL  Aftertreatment of the placing of the place of the plac	Fault code information	1 trip MIL		
Freeze frame type – Generic  Description of component(s)  This code relates to a communication issue and not to a specific component.  Location of component(s)  This code relates to a communication issue and not to a specific component.  Diagnostic condition  This diagnostic runs continuously when the ignition is on.  Set condition of fault code  Reset condition of fault code  Electrical diagram(s)  This DTC changes to inactive as soon as the error is no longer detected.  PACCAR  Diagnostic CAN  TRANSMISSION  Aftertreatment of the communication issue and not to a specific component.  Diagnostic component.  This code relates to a communication issue and not to a specific component.  This code relates to a communication issue and not to a specific component.  This code relates to a communication issue and not to a specific component.  This code relates to a communication issue and not to a specific component.  This code relates to a communication issue and not to a specific component.  This code relates to a communication issue and not to a specific component.  This code relates to a communication issue and not to a specific component.  This code relates to a communication issue and not to a specific component.  This code relates to a communication issue and not to a specific component.  This code relates to a communication issue and not to a specific component.  This code relates to a communication issue and not to a specific component.  This code relates to a communication issue and not to a specific component.  This code relates to a communication issue and not to a specific component.  This code relates to a communication issue and not to a specific component.  This code relates to a communication issue and not to a specific component.  This code relates to a communication issue and not to a specific component.  This code relates to a communication issue and not to a specific component.  This code relates to a communication issue and not to a specific component.  This code relates to a communication issue and		3 drive cycle recovery		
Description of component(s) Location of component(s) Diagnostic condition Set condition of fault code Reset condition of fault code Electrical diagram(s)  This code relates to a communication issue and not to a specific component. This diagnostic runs continuously when the ignition is on.  Set condition of fault code  Reset condition of fault code  This DTC changes to inactive as soon as the error is no longer detected.  NAMUX 3 Architecture: 2010 B-Cab  FIREWALL Aftertreatmen  Output  Diagnostic CAN  Componing  Aftertreatmen  Actualize  Diagnostic CAN  Diagnostic CAN		Readiness group – None		
Location of component(s)  Diagnostic condition  Set condition of fault code  Reset condition of fault code  Reset condition of fault code  Electrical diagram(s)  This DTC changes to inactive as soon as the error is no longer detected.  NAMUX 3 Architecture: 2010 B-Cab  FIREWALL Aftertreatment of the process of the proce		7		
Diagnostic condition  Set condition of fault code  Reset condition of fault code  Reset condition of fault code  Electrical diagram(s)  NAMUX 3 Architecture: 2010 B-Cab  FIREWALL Aftertreatment autonomic connection of the connec		· ' '		
Set condition of fault code  Reset condition of fault code  Electrical diagram(s)  NAMUX 3 Architecture: 2010 B-Cab  FIREWALL  Aftertreatment (TRANSMISSION)  Diagnostic CAN  Diagnostic CAN  Diagnostic CAN  Diagnostic CAN  Diagnostic CAN  Diagnostic CAN  Cluster  Cab CAN  Connection  Connection	, , ,			
Reset condition of fault code  Electrical diagram(s)  NAMUX 3 Architecture: 2010 B-Cab  NAMUX 3 Architecture: 2010 B-Cab  Order of the company of the compan	•	This diagnostic runs continuously when the ignition is on.		
RELECTRICAL DIAGNOSTIC CONNECTOR  Cluster  Cluster  Cluster  CVSQ BUS  NAMUX 3 Architecture: 2010 B-Cab  Aftertreatmen  Instrumentation CAN  Vehicle				
NAMUX 3 Architecture: 2010 B-Cab  FIREWALL Aftertreatmen  STEERING HAUTO  TRANSMISSION  HEGINE  CONNECTOR  PACCAR  Display  Vehicle CAN  CVSG BUS  CVSG BUS  CVSG BUS  CVSG BUS  Aftertreatmen  Lauto  TRANSMISSION		This DTC changes to inactive as soon as the error is no longer detected.		
Diagnostic CAN STEERING WHEEL  MCS  DIAGNOSTIC CONNECTOR  DIAGNOSTIC CONNECTOR  PACCAR Display  Vehicle CAN  CVSG BUS  After-trea  CVSG BUS  FIREWALL  Aftertreatmen  Auto TRANSMISSION  PACCAR Display  Vehicle CAN  Vehicle CAN  Vehicle CAN  Voi SEP  FIREWALL  Aftertreatmen  Auto TRANSMISSION  FIREWALL  Aftertreatmen  Auto TRANSMISSION  FIREWALL  Aftertreatmen  Auto TRANSMISSION  Vehicle CAN  Vehicle CAN  Vehicle CAN  FIREWALL  Aftertreatmen  Auto TRANSMISSION  Voi SEP  SEP  FIREWALL  Aftertreatmen  Auto TRANSMISSION  Vehicle CAN  Vehicle CAN  FIREWALL  Aftertreatmen  Auto TRANSMISSION  Voi SEP  SEP  FIREWALL  Aftertreatmen  Auto TRANSMISSION  Voi SEP  FIREWALL  Aftertreatmen  Auto TRANSMISSION  Vehicle CAN  Vehicle CAN  FIREWALL  Aftertreatmen  Auto TRANSMISSION  Vehicle CAN  FIREWALL  Aftertreatmen  Auto TRANSMISSION  Vehicle CAN  FIREWALL  Aftertreatmen  Auto TRANSMISSION  Vehicle CAN  Vehicle CAN  FIREWALL  Aftertreatmen  Auto TRANSMISSION  Vehicle CAN  FIREWALL  Aftertreatmen  Abs Transmission  Aftertreatmen  Actual or  Actual or  FIREWALL  Aftertreatmen  Auto Transmission  Auto Transmission  Aftertreatmen  Auto Transmission  Auto Transmission Transmis	Electrical diagram(s)			
SPARE INPUTS  SWITCHES  SWITCHES  Frame CAN  CHASSIS  NODE  VA  SE		Diagnostic CAN  STEERING WHEEL  MCS  DIAGNOSTIC CONNECTOR  PACCAR Display  Vehicle CAN  Vehicle CAN  Vehicle CAN  Voltage SENSORS  Frame CAN  SPARE  PRESSURE SENSORS  SPARE  Vacuator  Voltage SENSORS  CURRENT SENSOR  PRESSURE SENSORS  PRESSURE SENSORS  VACUATOR  AUTO TRANSMISSION  ENGINE  ADAPTIVE CRUSE CONNECTOR  AUTO TRANSMISSION  FOR CAN  ACTUATOR  AUTO TRANSMISSION  FOR CAN  FUEL SENSORS  CURRENT SENSOR  PRESSURE SENSORS  SENSO		









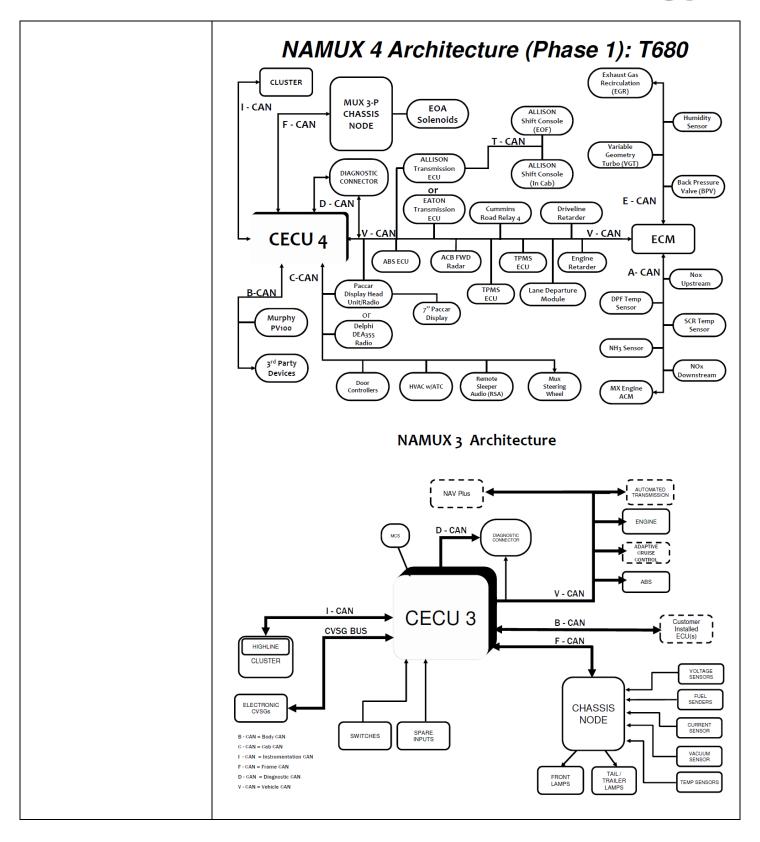


	Was there evidence	Was there evidence of any of the above?		
	No: Procee	d to step 2.		
	Yes: Make to	Yes: Make the appropriate repairs or component replacements.		
	<ul> <li>Use DAVIE to re-check for the presence of active faults.</li> <li>If this related fault is no longer active, then this issue has been resolved.</li> </ul>			
	If this relate	ed fault is still active, Proceed t	o step 2	
	Step 2	Step ID 1564b	SRT	
	Data check			
	Lookup the technical data of the specific system			
	Perform the	e checking data test of the spe	cific component	
	Is test pass?	-		
	No: Procee	d to step 3		
	Yes : Procee	ed to step4		
		'		
	Step 3 Step ID 1564c SRT			
	Repair or replace co	omponent		
	<ul> <li>Repair or replace the component, also check for electrical connection and wiring harness.</li> <li>Reconnect the connector</li> <li>ON the ignition key</li> </ul>			
		Use DAVIE to re-check for the presence of active faults:		
	Is DTC fault	active: Proceed to step 4		
	Is DTC fault	inactive: Issue resolved. Clear	inactive fault.	
	Step 4 Step ID 1564d SRT			
	For further assistance in diagnosing this issue or for confirmation prior to the replacement of suspect components, contact the Engine Support Call Center at			
	1-800-477-0251.			
Verification Drive Cycle	To verify the repair:			
	The state of the s	With the brakes set, turn the key to the ON position with the engine off, and allow 10 seconds for the system to initialize and run diagnostics		
	-			
	With the brakes set,	start the engine and allow it to	run at idle for 2 minutes	
			Back to Index	
			Dack to muck	

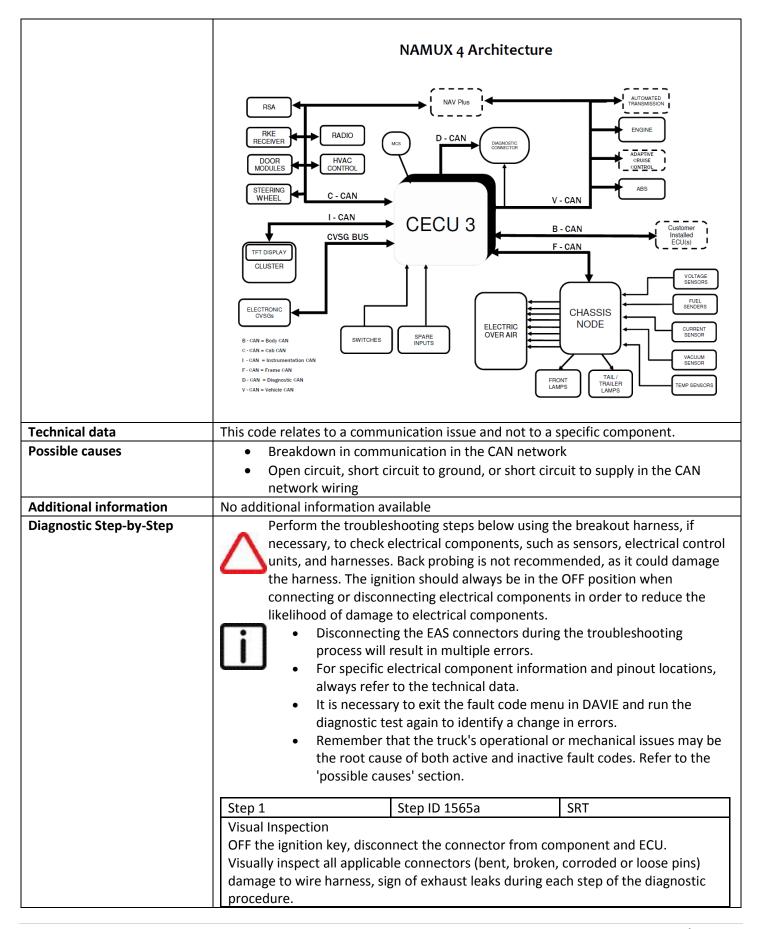


Code number	U1565				
Fault code description	CAN communication – Message (ACM_Limits) out of range – Turbine outlet				
	temperature upper limit torque from emission system				
Fault code information	1 trip MIL				
	3 drive cycle recovery				
	Readiness group – None				
	Freeze frame type – Generic				
Description of component(s)	This code relates to a communication issue and not to a specific component.				
Location of component(s)	This code relates to a communication issue and not to a specific component.				
Diagnostic condition	This diagnostic runs continuously when the ignition is on.				
Set condition of fault code					
Reset condition of fault code	This DTC changes to inactive as soon as the error is no longer detected.				
Electrical diagram(s)					
	NAMUX 3 Architecture: 2010 B-Cab				
	FIREWALL Aftertreatment CAN				
	Diagnostic CAN				
	STEERING TRANSMISSION FINANCIAL ENGINE ENGINE				
	WHEEL NCS I - ADAPTIVE .				
	MCS  DIAGNOSTIC CONNECTOR CONNECTOR				
	PACCAR PACCAR Engine CAN				
	Display				
	Cluster Cab CAN Actuator				
	Instrumentation CAN Vehicle CAN After-treatment DCU				
	CECU 3				
	CVSG BUS VOLTAGE SENSORS				
	THE SENDERS				
	ELECTRONIC CVSG's CURRENT				
	SENSOR				
	SWITCHES Frame CAN CHASSIS PRESSURE SENSORS				
	SPARE INPUTS VACUUM SENSOR				
	FRONT TAIL/ TEMP SENSORS				
	FIREWALL LAMPS TRAILER LAMPS				









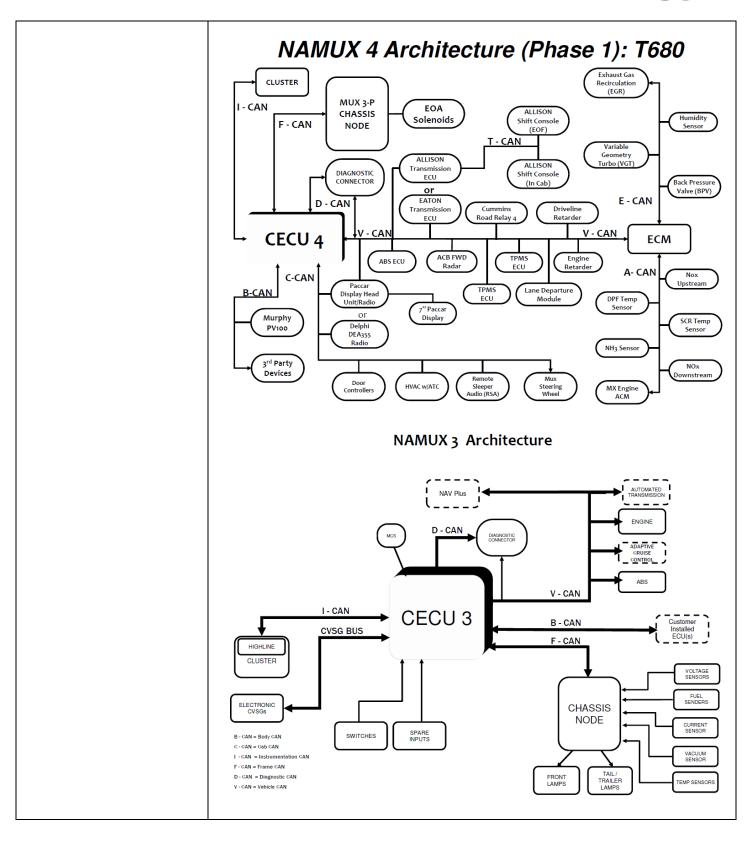


Was there evidence of any of the above? No: Proceed to step 2. Yes: Make the appropriate repairs or component replacements. Use DAVIE to re-check for the presence of active faults. If this related fault is no longer active, then this issue has been resolved. If this related fault is still active, Proceed to step 2 Step 2 Step ID 1565b SRT Data check Lookup the technical data of the specific system Perform the checking data test of the specific component Is test pass? No: Proceed to step 3 Yes: Proceed to step4 Step ID 1565c **SRT** Step 3 Repair or replace component Repair or replace the component, also check for electrical connection and wiring harness. Reconnect the connector ON the ignition key Use DAVIE to re-check for the presence of active faults: Is DTC fault active: Proceed to step 4 Is DTC fault inactive: Issue resolved. Clear inactive fault. Step 4 Step ID 1565d SRT For further assistance in diagnosing this issue or for confirmation prior to the replacement of suspect components, contact the Engine Support Call Center at 1-800-477-0251. **Verification Drive Cycle** To verify the repair: With the brakes set, turn the key to the ON position with the engine off, and allow 10 seconds for the system to initialize and run diagnostics. With the brakes set, start the engine and allow it to run at idle for 2 minutes. Back to Index

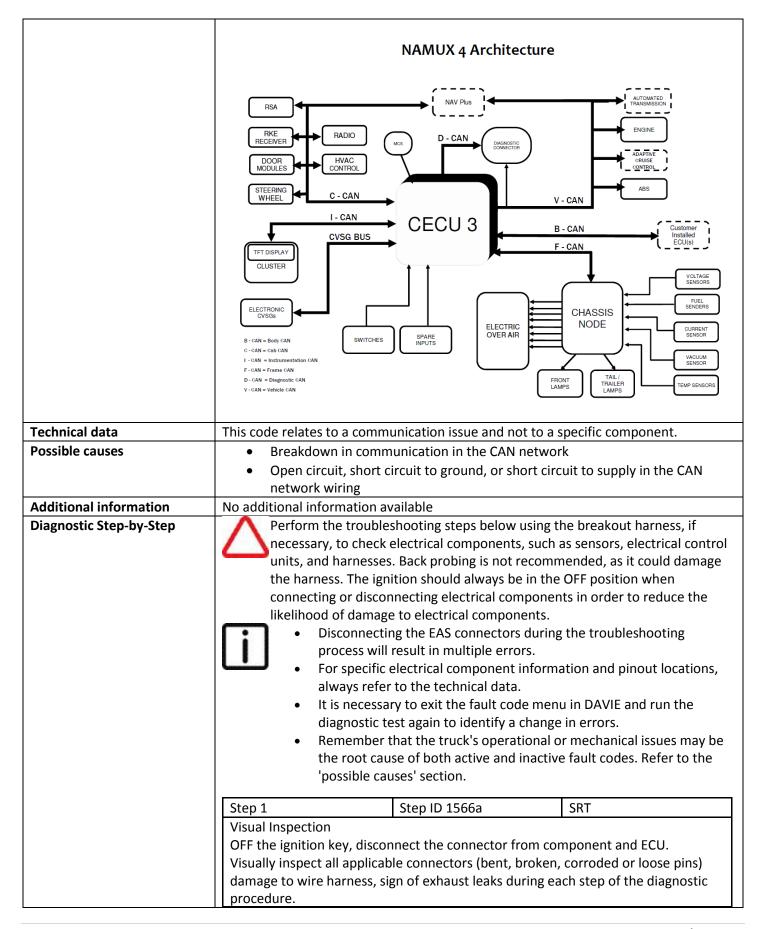


Code number	U1566					
Fault code description	CAN communication – Message (ACM_Limits) rate too low from emission system					
Fault code information	1 trip MIL					
	3 drive cycle recovery					
	Readiness group – None					
	Freeze frame type – Generic					
Description of component(s)	This code relates to a communication issue and not to a specific component.					
Location of component(s)	This code relates to a communication issue and not to a specific component.					
Diagnostic condition	This diagnostic runs continuously when the ignition is on.					
Set condition of fault code						
Reset condition of fault code	This DTC changes to inactive as soon as the error is no longer detected.					
Electrical diagram(s)						
	NAMUX 3 Architecture: 2010 B-Cab  FIREWALL  STEERING WHEEL  MCS  DIAGNOSTIC CONNECTOR  PACCAR DISPISE CONTROL  CONNECTOR  PACCAR DISPISE  Frame CAN  Vehicle CAN  CVSG BUS  Frame CAN  FIREWALL  FRONT  TAIL/ TRAILER  LAMPS  FRONT  TAIL/ TRAILER  LAMPS  TEMP  SENSORS					









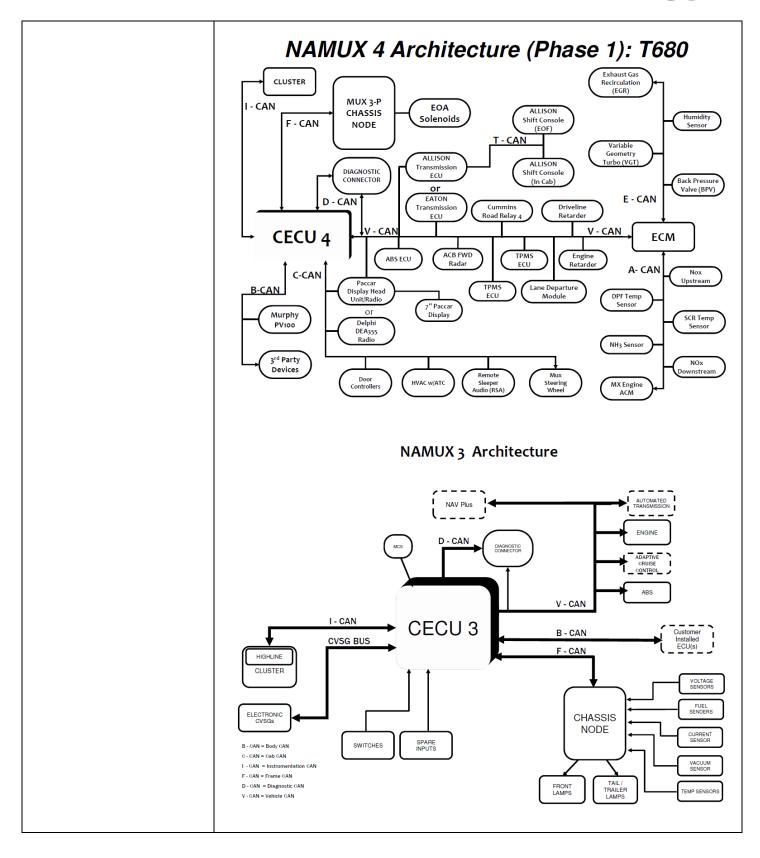


Was there evidence of any of the above? No: Proceed to step 2. Yes: Make the appropriate repairs or component replacements. Use DAVIE to re-check for the presence of active faults. If this related fault is no longer active, then this issue has been resolved. If this related fault is still active, Proceed to step 2 Step 2 Step ID 1566b SRT Data check Lookup the technical data of the specific system Perform the checking data test of the specific component Is test pass? No: Proceed to step 3 Yes: Proceed to step4 Step ID 1566c **SRT** Step 3 Repair or replace component Repair or replace the component, also check for electrical connection and wiring harness. Reconnect the connector ON the ignition key Use DAVIE to re-check for the presence of active faults: Is DTC fault active: Proceed to step 4 Is DTC fault inactive: Issue resolved. Clear inactive fault. Step 4 Step ID 1566d SRT For further assistance in diagnosing this issue or for confirmation prior to the replacement of suspect components, contact the Engine Support Call Center at 1-800-477-0251. **Verification Drive Cycle** To verify the repair: With the brakes set, turn the key to the ON position with the engine off, and allow 10 seconds for the system to initialize and run diagnostics. With the brakes set, start the engine and allow it to run at idle for 2 minutes. Back to Index

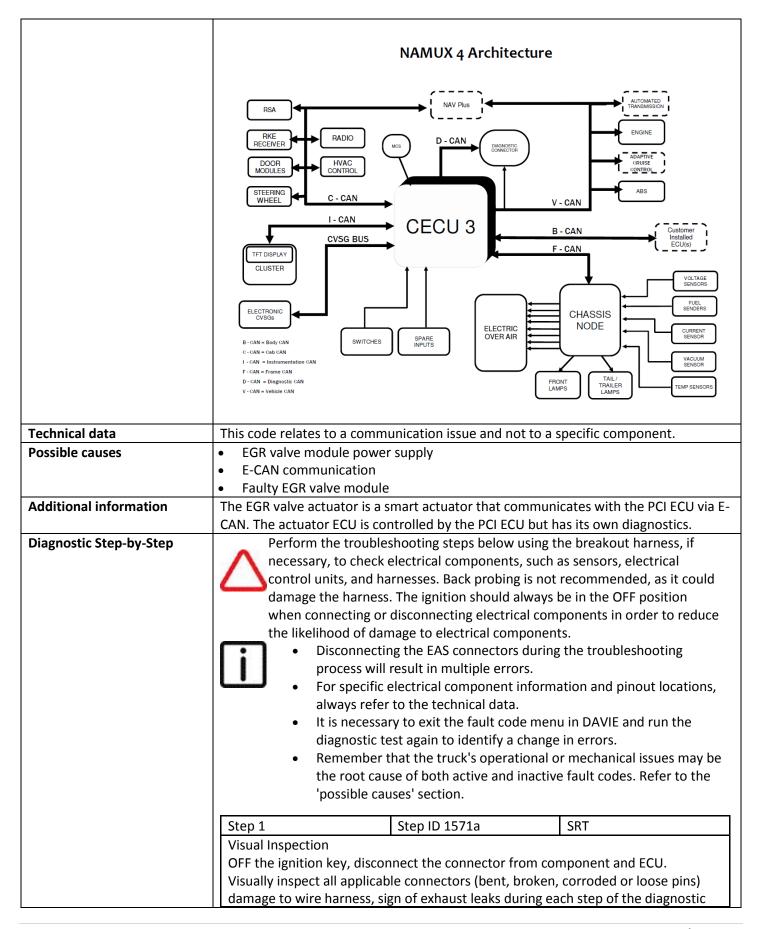


Code number	U1571				
Fault code description	EGR valve module - CAN communication error - Message rate too low				
Fault code information	1 trip MIL				
	3 drive cycle recovery				
	Readiness group – None				
	Freeze frame type – Generic				
Description of component(s)	This code relates to a communication issue and not to a specific component.				
Location of component(s)	This code relates to a communication issue and not to a specific component.				
Diagnostic condition	This diagnostic runs continuously when the ignition is on.				
Set condition of fault code	The PCI ECU (D420) lost communication with the EGR valve module (L095).				
Reset condition of fault code	This DTC changes to inactive after the ignition is keyed off for at least 15 seconds,				
	keyed on again, and the fault is no longer detected.				
Electrical diagram(s)					
	NAME :				
	NAMUX 3 Architecture: 2010 B-Cab				
	FIREWALL Aftertreatment CAN				
	Diagnostic CAN  STEERING WHEEL  MCS  DIAGNOSTIC CONNECTOR  PACCAR Display  Vehicle CAN  Vehicle CAN  Vehicle CAN  Voltage SENSORS  SENSORS  SPARE INPUTS  DIAGNOSTIC CONNECTOR  PACCAR Display  Voltage SENSORS  CURRENT SENSOR  TAIL TRALLER LAMPS  LAMPS  TEMP SENSORS				











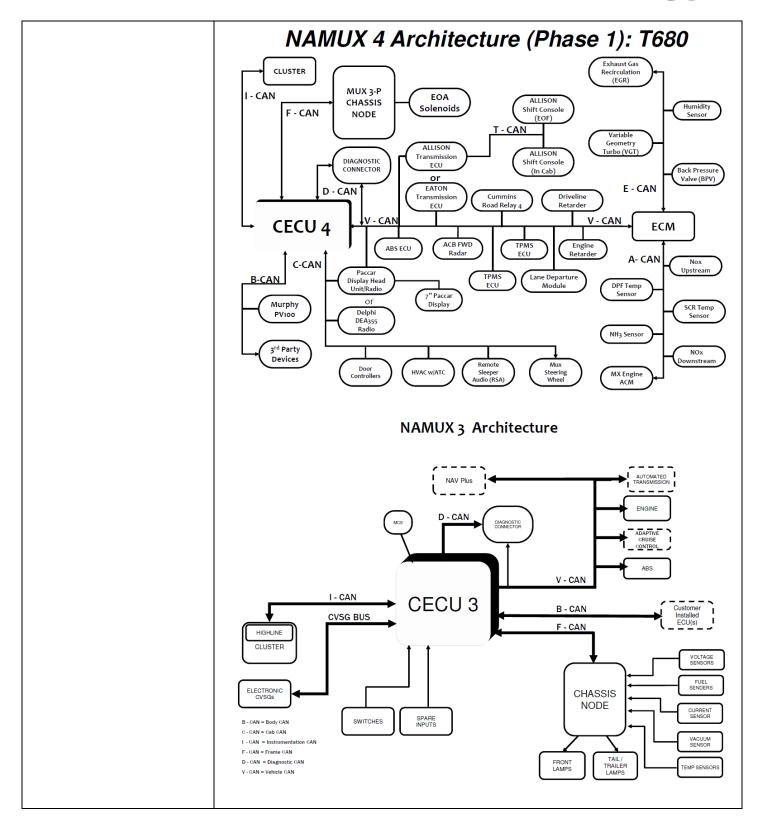
	procedure. Was there evidence of any of the above?  No: Proceed to step 2. Yes: Make the appropriate repairs or component replacements. Use DAVIE to re-check for the presence of active faults. If this related fault is no longer active, then this issue has been resolved. If this related fault is still active, Proceed to step 2					
	Step 2	Step ID 1571b	SRT			
	Data check					
	Lookup the technical data of the specific system					
		Perform the checking data test of the specific component				
	· ·	Is test pass?				
	No: Proceed to step 3					
	• Yes : Proc	Yes : Proceed to step4				
	Step 3	Step ID 1571c	SRT			
	Repair or replace component					
	<ul> <li>Repair or replace the component, also check for electrical connection and wiring harness.</li> <li>Reconnect the connector</li> <li>ON the ignition key</li> <li>Use DAVIE to re-check for the presence of active faults:</li> </ul>					
	<ul> <li>Is DTC fault active: Proceed to step 4</li> <li>Is DTC fault inactive: Issue resolved. Clear inactive fault.</li> </ul>					
	Step 4	Step ID 1571d	SRT			
	For further assistance in diagnosing this issue or for confirmation prior to the					
	replacement of suspect components, contact the Engine Support Call Center at 1-800-477-0251.					
Verification Drive Cycle	To verify the repair					
	With the brakes set, turn the key to the ON position with the engine off, and allo seconds for the system to initialize and run diagnostics.  With the brakes set, start the engine and allow it to run at idle for 2 minutes.					
			Back to Index			
<u> </u>	1		<u> </u>			



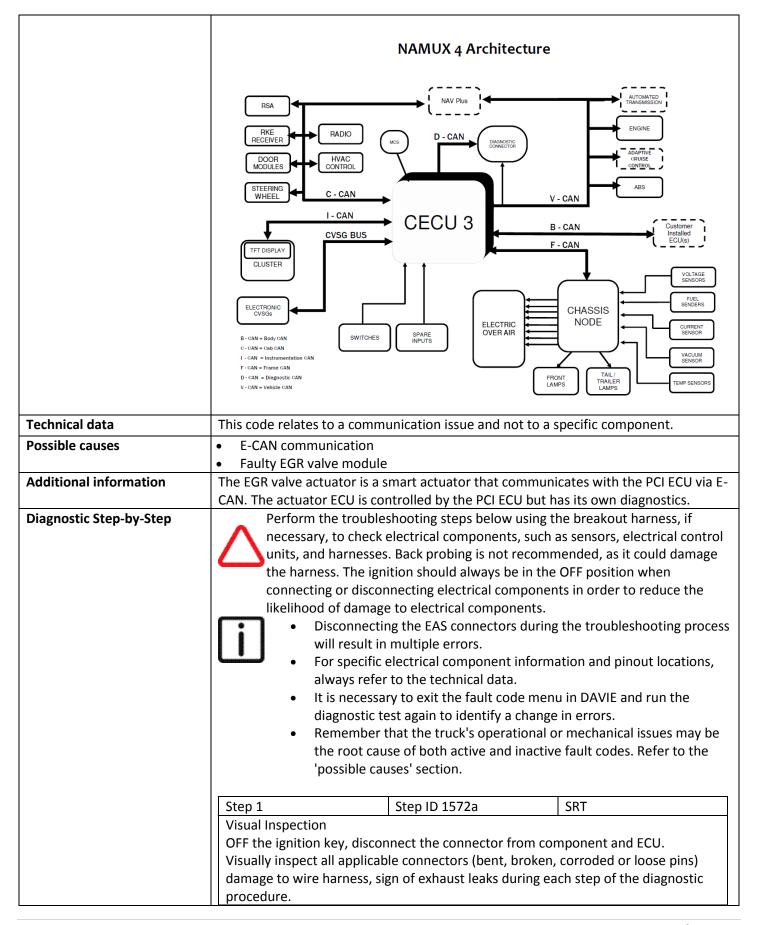
## U1572

Code number	U1572		
Fault code description	EGR valve module state – Data erratic, intermittent, or incorrect		
Fault code information	1 trip MIL		
	3 drive cycle recovery		
	Readiness group – None		
	Freeze frame type – Generic		
Description of component(s)	This code relates to a communication issue and not to a specific component.		
Location of component(s)	This code relates to a communication issue and not to a specific component.		
Diagnostic condition	This diagnostic runs continuously when the ignition is on.		
Set condition of fault code	The PCI ECU (D420) receives a CAN message from the EGR valve module (L095) that		
	contains an out-of-range value for the actuator operating state.		
Reset condition of fault code	This DTC changes to inactive after the ignition is keyed off for at least 15 seconds,		
	keyed on again, and the fault is no longer detected.		
Electrical diagram(s)			
	NAMUX 3 Architecture: 2010 B-Cab  FIREWALL  Aftertreatment CAN  AITO  (TRANSMISSION)  ENGINE  Consults  Co		











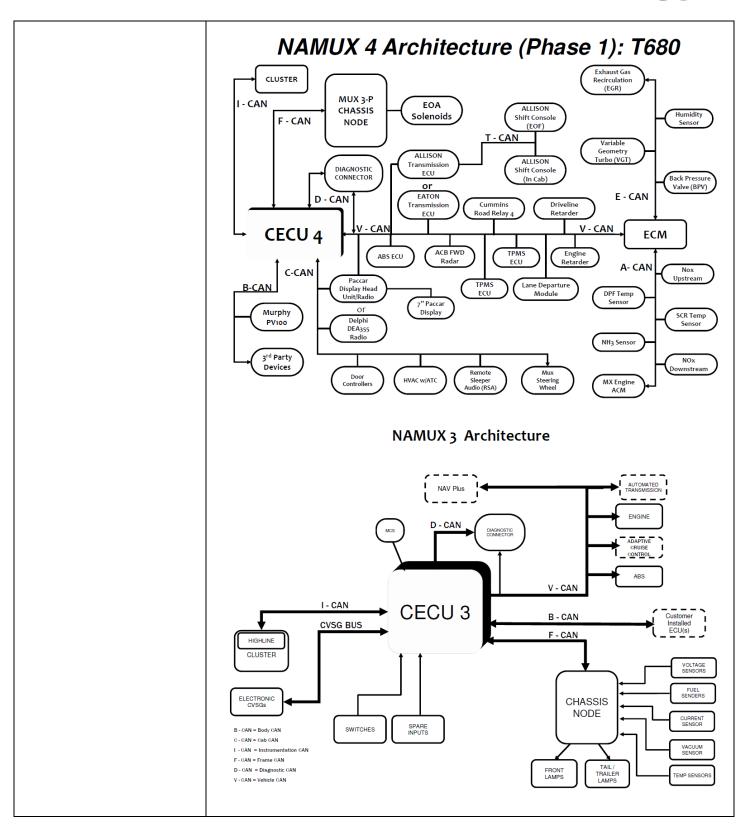
	Was there evidence	of any of the above?		
	No: Proceed to step 2.			
	Yes: Make t	he appropriate repairs or com	ponent replacements.	
	Use DAVIE to re-che	eck for the presence of active	faults.	
	If this relate	ed fault is no longer active, the	n this issue has been res	olved.
	If this related fault is still active, Proceed to step 2			
	Step 2	Step ID 1572b	SRT	
	Data check	·	·	
	• Lookup	the technical data of the spec	ific system	
	Perform	the checking data test of the	specific component	
	Is test pass?			
	No: Proceed to step 3			
	• Yes : Pro	oceed to step 4		
				_
	Step 3	Step ID 1572c	SRT	
	Repair or replace component			
	Repair or replace the component, also check for electrical connection and			
	wiring harness.			
	Reconnect the connector			
	ON the ignition key			
	Use DAVIE to re-check for the presence of active faults:			
	Is DTC fault active: Proceed to step 4			
	Is DTC fault inactive: Issue resolved. Clear inactive fault			
	Step 4	Step ID 1572d	SRT	
		ce in diagnosing this issue or f		
	replacement of suspect components, contact the Engine Support Call Center at			er at
	1-800-477-0251.			
Verification Drive Cycle	To verify the repair:			
	With the brakes set, turn the key to the ON position with the engine off, and allow 10			
	seconds for the system to initialize and run diagnostics.			
	With the brakes set, start the engine and allow it to run at idle for 2 minutes.			
			<u>Ba</u>	ck to Index
L	1			



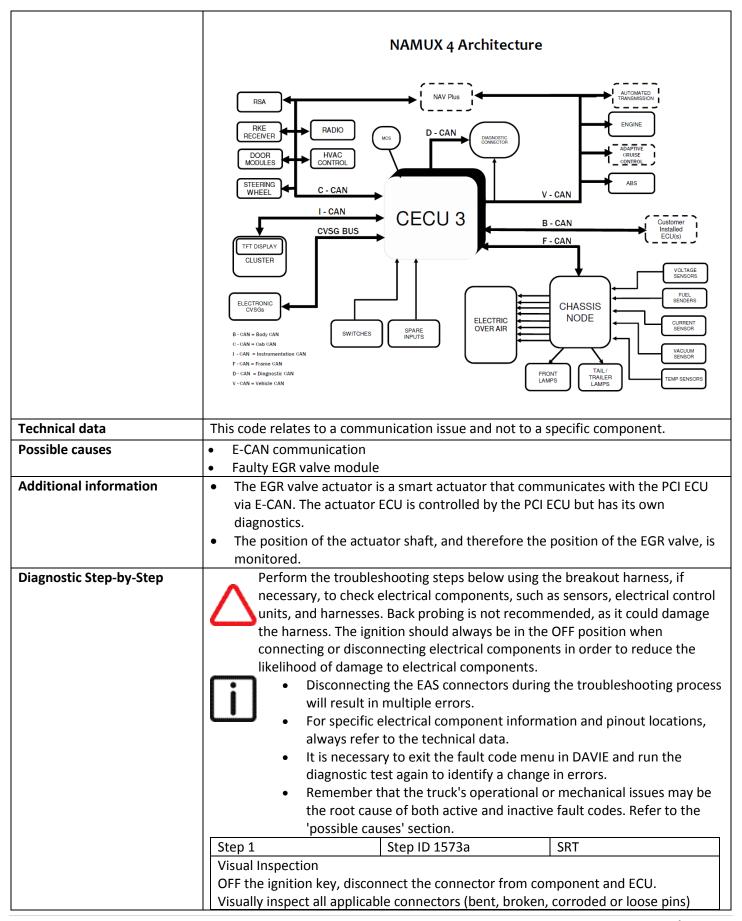
## **U1573**

Code number	U1573		
Fault code description	EGR valve module position – Data erratic, intermittent, or incorrect		
Fault code information	1 trip MIL		
	3 drive cycle recovery		
	Readiness group – None		
	Freeze frame type – Generic		
Description of component(s)	This code relates to a communication issue and not to a specific component.		
Location of component(s)	This code relates to a communication issue and not to a specific component.		
Diagnostic condition	This diagnostic runs continuously when the ignition is on.		
Set condition of fault code	The PCI ECU (D420) receives a CAN message from the EGR valve module (L095) that		
	contains an out-of-range value for the actuator shaft position.		
Reset condition of fault code	This DTC changes to inactive after the ignition is keyed off for at least 15 seconds,		
	keyed on again, and the fault is no longer detected.		
Electrical diagram(s)			
	NAMUX 3 Architecture: 2010 B-Cab		
	FIREWALL Aftertreatment CAN		
	Diagnostic CAN		
	STEERING WHEEL TRANSMISSION TRA		
	MCS ABS ABS ADAPTIVE CRUES CRU		
	CONNECTOR		
	PACCAR Display VGT		
	Cluster Cab CAN Actuator		
	After-treatment After-treatment		
	Tinstrumentation CAN CECU 3		
	CVSG BUS VOLTAGE SENSORS		
	. FUEL		
	ELECTRONIC SENDERS SENDERS		
	CVSG'S CURRENT SENSOR		
	SWITCHES Frame CAN CHASSIS PRESSURE SENSORS		
	SPARE INPUTS VACUUM SENSOR		
	FRONT TAIL TEMP SENSORS		
	FIREWALL LAMPS TRAILER LAMPS		











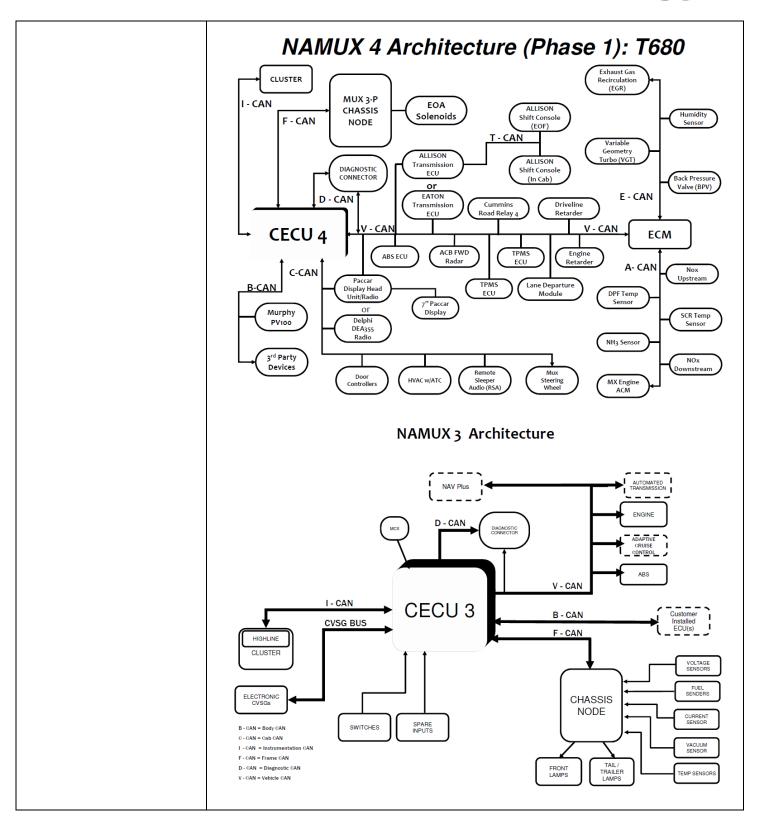
	damage to wire ha	arness sign of exhaust leaks dur	ing each step of the diagnostic	
	damage to wire harness, sign of exhaust leaks during each step of the diagnostic procedure.			
	Was there evidence of any of the above?			
		ed to step 2.		
			nonent neule comente	
		the appropriate repairs or com		
		heck for the presence of active f		
	If this related fault is no longer active, then this issue has been resolved.			
	If this rela	ted fault is still active, Proceed t	o step 2	
	Chan 2	Cton ID 1572h	CDT	
	Step 2	Step ID 1573b	SRT	
	Data check			
		p the technical data of the spec	•	
		rm the checking data test of the	specific component	
	Is test pass?			
	No: Proceed to step 3			
	• Yes : F	Proceed to step 4		
	Step 3	Step ID 1573c	SRT	
	Repair or replace component			
	Repair or replace the component, also check for electrical connection and			
	wiring harness.			
	Reconnect the connector			
	ON the ignition key			
	Use DAVIE to re-check for the presence of active faults:			
	Is DTC fault active: Proceed to step 4			
	Is DTC fault inactive: Issue resolved. Clear inactive fault			
	Step 4	Step ID 1573d	SRT	
	For further assistance in diagnosing this issue or for confirmation prior to the			
	replacement of suspect components, contact the Engine Support Call Center at			
	1-800-477-0251.			
Verification Drive Cycle	To verify the repair	:		
	With the brakes set, turn the key to the ON position with the engine off, and allow 10			
	seconds for the system to initialize and run diagnostics.			
	With the brakes set, start the engine and allow it to run at idle for 2 minutes.			
			Back to Index	



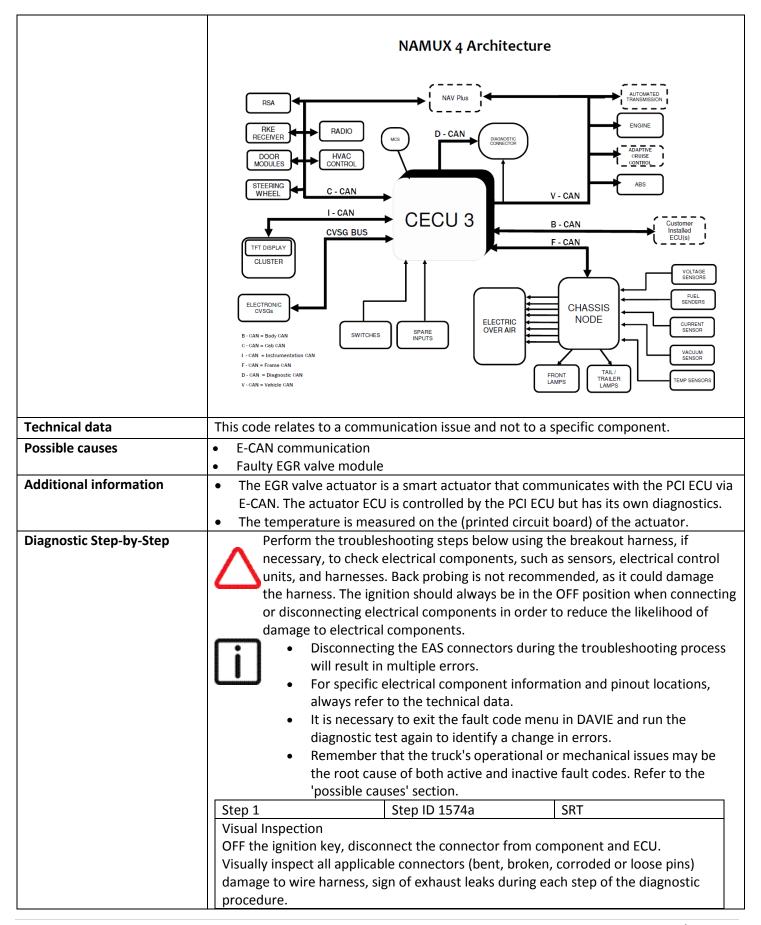
## U1574

Code number	U1574		
Fault code description	EGR valve module temperature – Data erratic, intermittent, or incorrect		
Fault code information	1 trip MIL		
	3 drive cycle recovery		
	Readiness group – None		
	Freeze frame type – Generic		
Description of component(s)	This code relates to a communication issue and not to a specific component.		
Location of component(s)	This code relates to a communication issue and not to a specific component.		
Diagnostic condition	This diagnostic runs continuously when the ignition is on.		
Set condition of fault code	The PCI ECU (D420) receives a CAN message from the EGR valve module (L095) that		
	contains an out-of-range value for the actuator temperature.		
Reset condition of fault code	This DTC changes to inactive after the ignition is keyed off for at least 15 seconds,		
	keyed on again, and the fault is no longer detected.		
Electrical diagram(s)			
	NAMUX 3 Architecture: 2010 B-Cab  FIREWALL  Aftertreatment CAN  ITRANSMISSION  IT		











		nce of any of the above?		
	No: Proceed to step 2.			
	Yes: Mak	ke the appropriate repairs or cor	nponent replacements.	
	Use DAVIE to re-	check for the presence of active	faults.	
	If this rel	ated fault is no longer active, th	en this issue has been reso	lved.
	If this rel	ated fault is still active, Proceed	to step 2	
	Step 2	Step ID 1574b	SRT	
	Data check			
	• Look	up the technical data of the spe	cific system	
	Perfo	orm the checking data test of th	e specific component	
	Is test pass?			
	• No: F	Proceed to step 3		
	• Yes :	Proceed to step 4		
		·		
	Step 3	Step ID 1574c	SRT	
	Repair or replace component			
	Repair or replace the component, also check for electrical connection and			
	wiring harness.			
	Reconnect the connector			
	ON the ignition key			
	Use DAVIE to re-check for the presence of active faults:			
	Is DTC fault active: Proceed to step 4			
	Is DTC fault inactive: Issue resolved. Clear inactive fault			
	Step 4	Step ID 1574d	SRT	
	For further assistance in diagnosing this issue or for confirmation prior to the			
	replacement of suspect components, contact the Engine Support Call Center at			
	1-800-477-0251.			
Verification Drive Cycle	To verify the repa	ir:		
•	With the brakes set, turn the key to the ON position with the engine off, and allow 10			
	seconds for the system to initialize and run diagnostics.			
	With the brakes set, start the engine and allow it to run at idle for 2 minutes.			
		-		