

Howell, Rosa (NHTSA)

From: tiesend@volvocars.com
Sent: Monday, September 06, 2010 7:35 AM
Subject: TJ EN-GB 8529
Attachments: Instruction to TJ8529.doc

Title	Electrical function and communication symptom in M/Y 2005	Status	Released
Ref No	SE8529.2.0 en-GB	Status Date	2004-12-15
Issuer	PAHLBERG - Peter Ahlberg	Issue Date	2004-12-15
Partner	4 SE PVT PVT	Reference	Q2-060322

Func Group 3729

Func Desc miscellaneous

Attachment

File Name	File Size
Instruction to TJ8529.doc	2.3666 MB

Vehicle Type

Type	Eng	Eng Desc	Sales	Body	Gear	Steer	Model Year	Plant	Chassis Range	Struc Week Range
184							2005-9999	21	0390000-9999999	200425-999999
275							2005-9999	21	0134000-9999999	200425-999999
285							2005-9999		0459000-9999999	200425-999999
295							2005-9999	21	0173000-9999999	200425-999999
384							2005-9999	22	0425000-9999999	200425-999999

CSC

DTC

Text

DESCRIPTION: Various electrical function and communication symptoms may occur in M/Y

2005 vehicles caused by wet corrosion in the CEM connector, if water has penetrated through the plenum box by the sealing grommet.

The grommet that seals the cables to the CEM may not seal good enough, if it has been incorrectly assembled .

This may cause a number of different functionality symptoms and DTC's to be set.

Examples: - Headlight on, even if ignition key is taken out of ignition lock.

- Warning messages in DIM display.

- Warning lamps lit up.

PRODUCT MODIFICATION: An improved grommet is under development.

Introduction time scheduled to end of 2004/ beginning of 2005.

A temporary production solution has been introduced using butyl tape at the grommets slide

* in plenum box and cable tie for the wire harness. Unfortunately in some cases water may still penetrate into the plenum box due to improper installation of butyl tape and/or grommet.

MATERIAL RETURN: -

TECHNICAL REPORT: Yes, please submit a TR of the root cause of the corroded CEM connector.

SERVICE: If there are signs of water penetration in plenum box and/ or wet corrosion at CEM connectors, then it is necessary to:

- locate and correct the water leakage.
- dry plenum box, rubber grommet from water .
- read out / erase DTC's.
- if missing or damaged butyl tape is found, remove old butyl tape and install new butyl tape according to instruction.
- replace CEM according to Vadis.
- replace engine bay harness to CEM, if the terminals are damaged/ corroded.
- test and verify all functions, read out DTC's.

PARTS:

Required butyl tape must be 100 mm in length and 5 mm in diameter.

Incorrect butyl tape (too thick or too long) will cause water leakage due to plenum box lid can not close correctly.

* One cable tie P/N 983750, for fixation of wire harness.

The butyl tape is not yet available from Volvo Cars Parts, but can be ordered from PVT office if sending a SR request in TIE system.

VSTG OPERATION NUMBER:

36001-2 - Read out / erase DTC's (first time)

36002-3 - Read out / erase DTC's (second time)

37958-2 - Sealing plenum chamber, install

37206-2 - CEM, replace

General Operation - Engine harness, replace

Howell, Rosa (NHTSA)

From: tiesend@volvocars.com
Sent: Monday, September 06, 2010 7:56 AM
Subject: TJ EN-GB 8529
Attachments: location of Grommet partnumber.doc; Instruction to TJ8529 ver 3.doc; plenum lid date code location.jpg

Title	Electrical function and communication symptom in M/Y 2005	Status	Released
Ref No	SE8529.11.0 en-GB	Status Date	2005-09-16
Issuer	TINGMAN1 - Thomas Ingman	Issue Date	2005-09-16
Partner	4 SE PVT PVT	Reference	Q2-060322

Func Group 3729

Func Desc miscellaneous

Attachment

File Name	File Size
location of Grommet partnumber.doc	0.1435 MB
Instruction to TJ8529 ver 3.doc	2.6357 MB
plenum lid date code location.jpg	0.0543 MB

Vehicle Type

Type	Eng	Eng Desc	Sales	Body	Gear	Steer	Model Year	Plant	Chassis Range	Struc Week Range
184							2005-2006	21	0390000-9999999	200425-200540
275							2005-2006	21	0134000-9999999	200425-200540
285							2005-2006		0459000-9999999	200425-200540
295							2005-2006	21	0173000-9999999	200425-200540
384							2005-2006	22	0425000-9999999	200425-200540

CSC

DTC

Text

DESCRIPTION: Various electrical function and communication symptoms may occur in M/Y

2005 vehicles caused by wet corrosion in the CEM connector, if water has penetrated

through the plenum box by the sealing grommet.

The grommet that seals the cables to the CEM may not seal good enough, if it has been incorrectly assembled.

This may cause a number of different functionality symptoms and DTC's to be set.

Examples: - Headlight on, even if ignition key is taken out of ignition lock.

- Warning messages in DIM display.
- Warning lamps lit up.
- brake lights always on.

- no start condition.

PRODUCT MODIFICATION: An improved rubber grommet was introduced in production as a running change from approx. production week 2005 week 01.

Chassis number for Gothenburg produced cars: 184 (FC1) 407065, 285 (FC1) 499870, 295 (FC1) 192783, 275 (FC1) 189110

Chassis number for Gent produced cars: 285 (FC 2) 499176, 384 (FC 2) 465194

New Grommet Part number (see attachment): P/N 30739162

An improved plenum box lid with a thicker foam gasket was introduced in VCC production from 2005 w 18-19. All M/Y 2006 from week 20 should have the new lid.

The improved lid is marked with date code 2005 05 or newer, see picture for location.

A new plenum box with integrated rubber grommet will be introduced 2005 Q3.

MATERIAL RETURN: If requested in TR.

TECHNICAL REPORT: Yes, please submit a TR for the root cause of the water penetration.

Please include the following analysis in the TR:

1. Check that the plenum box lid is correctly closed before removing, Car OK? (Y/N)
2. All 5 clips locked position, Car OK? (Y/N)
3. Guide pin in the plenum box lid on the inside of the plenum box, Car OK? (Y/N)
4. No wires caught in between, Car OK? (Y/N)
5. Plenum lid sealing undamaged, Car OK? (Y/N)
6. Plenum box housing sealing undamaged at the bottom, Car OK? (Y/N)
7. Check that the water drainage channel is open in both ends, Car OK? (Y/N)
8. Presence of condensed water inside the windshield, Car OK? (Y/N)

SERVICE: If there are signs of water penetration in plenum box and/ or wet corrosion at CEM connectors, then it is necessary to:

- locate and correct the water leakage.
- dry plenum box, rubber grommet from water.
- read out / erase DTC's.
- replace engine bay harness if the terminals are corroded (green/white color).

*- replace CEM (according to VIDA).

- replace the plenum lid.

*- remove one-back valve for the draining pipe plenum seal drivers side. Only markets with heavy-rain and/or risk for freezing.

Only if the engine bay harness has the old type of rubber grommet, P/N 9441111:

- Install sealant according to instruction.

- test and verify all functions, read out DTC's.

Only if the engine bay harness has the new type of rubber grommet, P/N 30739162:

- check that there is no butyl tape or sealant in the plenum box slot.

- verify that the rubber grommet has been installed correctly, fully depressed in the slot.

Note: If an old engine bay harness with grommet P/N 9441111 is replaced with a new engine bay harness including the new grommet P/N 30739162, remember to clean plenum box slot from butyl tape or sealant.

*Attachment: Instruction to TJ8529 ver 2.doc has been updated ->ver 3 with instruction how to remove one-back valve for the draining pipe plenum seal drivers side.

*Service-fix is dedicated for markets with heavy-rain and / or risk for freezing. The purpose of removing one-back valve is to get a better draining.

*Instruction pos.13-17 shall be used for concerned markets but only when perform a repair according to instruction pos. 1-12 to avoid a repeat-repair.

PARTS:

Sealant (310 ml), P/N 1161235 (required amount).

One cable tie P/N 983750, for fixation of wire harness.

Engine bay cable harness, check Vadis parts catalogue.

Plenum lid, P/N 9168973 LHD

Plenum lid, P/N 9168974 RHD

VSTG OPERATION NUMBER:

36001-2 - Read out / erase DTC's (first time)

36002-3 - Read out / erase DTC's (second time)

37958-2 - Sealing plenum chamber, install

37206-2 - CEM, replace

General Operation - Engine harness, replace

*ATTACHMENT TEXT BLOCKS:

*Below you will find the 17 text blocks that belong to the method given in the attachment.

*You can "copy and paste" the translated TJ text between the dotted lines into the matching *blocks in the attachment.

*Title: Seal with sealing compound

*Text block 1.

*-----

*Remove clips

*-----

*Remove the clips, one on each side

*-----

*Text block 2.

*-----

*Remove clips, continued

*-----

*Remove the clips, 4 pcs., that hold the plenum seal.

*-----

*Text block 3.

*-----

*Remove windshield wiper arms

*-----

*Remove the windshield wiper arms.

*Tip! If the wiper arm is stuck, loosen the nut slightly.

*Then squeeze the wiper arm loose with pliers (see illustration).

*As an alternative, use a puller.

*-----

*Text block 4.

*-----

*Remove plenum seal

*-----

*Remove the plenum seal by carefully pulling it forward.

*-----

*Text block 5.

*-----

*Checking clips only XC90

*-----

*Check that the clips are intact, 5 pcs. p/n: 8648206

*-----

*Text block 6.

*-----

*Remove wiper mechanism

*-----

*Remove wiper mechanism, see:

*Removing, replacing and installing

*Electrical system

*Other electrical equipment

*Cleaners

*Wiper mechanism windshield, replacing.

*-----

*Text block 7.

*-----

*Wipe off possible water around and on plenum box .

*-----

*Text block 8.

*-----

*Remove cover for plenum box

*-----

*Remove the cover on the plenum box and pull up the cable harness from the box. Place as *shown in the illustration.

*Check that there is no water on the CEM or on the inside of the plenum box.

*If there is water, it has to be wiped up.

*-----

*Text block 9.

*-----

*Checking groove for rubber lead-through

*-----

*Make sure that the groove where the rubber lead-through is to be installed is clean and dry.

*-----

*Text block 10.

*-----

*Install spout

*-----

*Cut off the spout, so that the hole becomes approx. 5 mm.

*Install the spout on the sealant tube, 1161235.

*-----

*Text block 11.

*-----

*Applying sealant

*-----

*Fill the groove with sealant using a suitable glue gun.

*-----

*Text block 12.

*-----

*Install rubber lead-through

*-----

*Make sure that the rubber lead-through is dry.

*Press down the rubber lead-through in the groove.

*Make sure that it goes all the way down and that it does not protrude above the groove.

*Fixate the cable harness with a cable tie, p/n: 983750 see illustration.

*Make sure that nothing can block the drain hole in the bottom of the plenum ditch.

*-----

*Text block 13.

*-----

*Remove the splash guard

*-----

*Remove the splash guard under the engine.

*-----

*Text block 14.

*-----

*Locate the one-way valve

*-----

*Localize the one-way valve on the drainig pipe

*(Picture shows a XC90 LHD)

*-----

*Text block 15.

*-----

*Locate the drainage tube

*-----

*Locate the drainage tube on the drivers side.

*1 = LHD

*2 = RHD

*-----

*Text block 16.

*-----

*Remove the one-way valve

*-----

*Remove the one-way valve with suitable piler.

*Attention! Remove only the one-way valve on the drivers side

*-----

*Text block 17.

*-----

*Installation

*-----

*Install:

* - Splashguard under the engine

* - Plenum box cover, make sure that the cover (clips) will lock properly all around

* - Wiper mechanism, see:

* Removing, replacing and installing

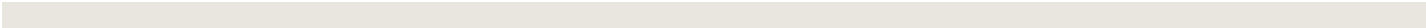
* Electrical system

* Other electrical equipment

* Cleaners

* Wiper mechanism windshield, replacing

*-----



Howell, Rosa (NHTSA)

From: tiesend@volvocars.com
Sent: Monday, September 06, 2010 7:56 AM
Subject: TJ EN-GB 8529
Attachments: New plenum box 2005w40-.JPG; plenum lid date code location.jpg; Instruction to TJ8529 ver 3.doc; location of Grommet partnumber.doc

Title Electrical function and communication symptom in M/Y 2005-2006, water in CEM
Ref No SE8529.12.0 en-GB
Issuer TINGMAN1 - Thomas Ingman
Partner 4 SE PVT PVT
Status Released
Status Date 2005-10-17
Issue Date 2005-10-04
Reference Q2-060322

Func Group 3729
Func Desc miscellaneous

Attachment

File Name	File Size
New plenum box 2005w40-.JPG	0.0568 MB
plenum lid date code location.jpg	0.0543 MB
Instruction to TJ8529 ver 3.doc	2.6357 MB
location of Grommet partnumber.doc	0.1435 MB

Vehicle Type

Type	Eng	Eng Desc	Sales	Body	Gear	Steer	Model Year	Plant	Chassis Range	Struc Week Range
184							2005-2006	21	0390000-0435423	200425-200540
275							2005-2006	21	0134000-0256551	200425-200540
285							2005-2006	21	0459000-0555060	200425-200540
285							2005-2006	22	0459000-0554206	200425-200540
295							2005-2006	21	0173000-0220845	200425-200540
384							2005-2006	22	0425000-0522407	200425-200540

CSC

DTC

Text

DESCRIPTION: Various electrical function and communication symptoms may occur in M/Y

2005-2006 vehicles caused by wet corrosion in the CEM connector, if water has penetrated through the plenum box by the sealing grommet.

The grommet that seals the cables to the CEM may not seal good enough, if it has been incorrectly assembled.

This may cause a number of different functionality symptoms and DTC's to be set.

Examples:

- Headlight on, even if ignition key is taken out of ignition lock.
- Warning messages in DIM display.

- Warning lamps lit up.
- brake lights always on.
- no start condition.

PRODUCT MODIFICATION: An improved rubber grommet was introduced in production as a running change from approx. production week 2005 week 01.

Chassis number for Gothenburg produced cars:

184 (FC1) 407065

285 (FC1) 499870

295 (FC1) 192783

275 (FC1) 189110

Chassis number for Gent produced cars:

285 (FC 2) 499176

384 (FC 2) 465194

New Grommet Part number (see attachment): P/N 30739162

An improved plenum box lid with a thicker foam gasket was introduced in VCC production from 2005 w 18-19. All M/Y 2006 from week 20 should have the new lid.

The improved lid is marked with date code 2005 05 or newer, see picture for location.

*A new plenum box (refer to picture "new plenum box 2005w40-") with integrated rubber grommet was introduced in VCC production from 2005 week 40.

*Chassis number 2005w40:

*184 21 435423-

*285 21 555060-

*295 21 220845-

*275 21 256551-

*285 22 554206-

*384 22 522407-

* The cable harness with the new plenum box can be used backwards on all model year 2006 except XC90 Diesel with Automatic gearbox.

*Chassis number 2005w20- (MY 2006).

*184 21 426000-

*285 21 530000-

*295 21 208000-

*275 21 224000- Note! Except Diesel with automatic gearbox

*285 22 530000-

*384 22 500000-

* Investigation ongoing to have the new plenum box as a service solution for cars between W0425 - W0520.

MATERIAL RETURN: If requested in TR.

* TECHNICAL REPORT: Yes, please submit a TR if you found water ingress after chassis range in TJ header.

SERVICE: If there are signs of water penetration in plenum box and/ or wet corrosion at CEM

connectors, then it is necessary to:

- locate and correct the water leakage.
- dry plenum box, rubber grommet from water.
- read out / erase DTC's.
- replace engine bay harness if the terminals are corroded (green/white color).
- replace CEM (according to VIDA).
- replace the plenum lid.
- remove one-back valve for the draining pipe plenum seal drivers side. Only markets with heavy-rain and/or risk for freezing.

Only if the engine bay harness has the old type of rubber grommet, P/N 9441111:

- Install sealant according to instruction.
- test and verify all functions, read out DTC's.

Only if the engine bay harness has the new type of rubber grommet, P/N 30739162:

- check that there is no butyl tape or sealant in the plenum box slot.
- verify that the rubber grommet has been installed correctly, fully depressed in the slot.

Note: If an old engine bay harness with grommet P/N 9441111 is replaced with a new engine bay harness including the new grommet P/N 30739162, remember to clean plenum box slot from butyl tape or sealant.

Attachment: Instruction to TJ8529 ver 2.doc has been updated ->ver 3 with instruction how to remove one-back valve for

the draining pipe plenum seal drivers side.

Service-fix is dedicated for markets with heavy-rain and / or risk for freezing. The purpose of removing one-back valve is to get a better draining.

Instruction pos.13-17 shall be used for concerned markets but only when perform a repair according to instruction pos. 1-12 to avoid a repeat-repair.

PARTS:

Sealant (310 ml), P/N 1161235 (required amount).

One cable tie P/N 983750, for fixation of wire harness.

*Engine bay cable harness, check VIDA parts catalogue. (The new plenum box)

Plenum lid, P/N 9168973 LHD

Plenum lid, P/N 9168974 RHD

VSTG OPERATION NUMBER:

36001-2 - Read out / erase DTC's (first time)

36002-3 - Read out / erase DTC's (second time)

37958-2 - Sealing plenum chamber, install

37206-2 - CEM, replace

General Operation - Engine harness, replace

*Translated attachment text block have been erased from this version. You will still be able to find them in the TJ version 11. Please make sure that you have copy and paste the text into the attachment before you release this version to your local side.

Howell, Rosa (NHTSA)

From: tiesend@volvocars.com
Sent: Monday, September 06, 2010 7:56 AM
Subject: TJ EN-GB 8529
Attachments: New plenum box 2005w40-.JPG; CEM service overview.ppt; T9075EN01.doc

Title Electrical function and communication symptom in M/Y 2005-2006, water in CEM
Ref No SE8529.13.0 en-GB
Issuer TINGMAN1 - Thomas Ingman
Partner 4 SE PVT PVT
Status Released
Status Date 2006-03-24
Issue Date 2006-03-17
Reference Q2-060322

Func Group 3729
Func Desc miscellaneous

Attachment

File Name	File Size
New plenum box 2005w40-.JPG	0.0568 MB
CEM service overview.ppt	0.1533 MB
T9075EN01.doc	0.1503 MB

Vehicle Type

Type	Eng	Eng Desc	Sales	Body	Gear	Steer	Model Year	Plant	Chassis Range	Struc Week Range
184							2005-2006	21	0390000-0435423	200425-200540
275							2005-2006	21	0134000-0256551	200425-200540
285							2005-2006	21	0459000-0555060	200425-200540
285							2005-2006	22	0459000-0554206	200425-200540
295							2005-2006	21	0173000-0220845	200425-200540
384							2005-2006	22	0425000-0522407	200425-200540

CSC

DTC

Text

DESCRIPTION: Various electrical function and communication symptoms may occur in M/Y

2005-2006 vehicles caused by wet corrosion in the CEM connector, if water has penetrated through the plenum box by the sealing grommet.

The grommet that seals the cables to the CEM may not seal good enough, if it has been incorrectly assembled.

This may cause a number of different functionality symptoms and DTC's to be set.

Examples:

- Headlight on, even if ignition key is taken out of ignition lock.
- Warning messages in DIM display.
- Warning lamps lit up.

- brake lights always on.

- no start condition.

PRODUCT MODIFICATION: A new plenum box (refer to picture "new plenum box 2005w40-")with integrated rubber grommet was introduced in VCC production from 2005 week 40.

Chassis number 2005w40:

184 21 435423-

285 21 555060-

295 21 220845-

275 21 256551-

285 22 554206-

384 22 522407-

MATERIAL RETURN: If requested in TR.

TECHNICAL REPORT: Yes, please submit a TR if you found water ingress after chassis range in TJ header.

*SERVICE: If there are signs of water penetration in plenum box and/ or wet corrosion at CEM

connectors, then it is necessary to:

*- read out / erase DTC's.

*- replace engine bay harness.

*- Update the new engine bay harness S60/V70/XC70/S80, cars between 2004w25 - 2005w20 see instruction T9075.doc

*-Update the new engine bay harness XC90, cars between 2004w25 - 2004w45 see instruction T9075.doc

*-replace CEM (according to VIDA).

PARTS:

* Engine bay cable harness, check VIDA parts catalogue.

* Plenum lid, P/N 30728860 LHD

* Plenum lid, P/N 30728861 RHD

* Service grommet, P/N 30775689

* Cable tie, P/N 2x 983750

VSTG OPERATION NUMBER:

36001-2 - Read out / erase DTC's (first time)

36002-3 - Read out / erase DTC's (second time)

*99376-2 - Rubber seal cable harness engine replace

37206-2 - CEM, replace

General Operation - Engine harness, replace

*The text below is for the attachment CEM service overview. Please copy and paste before *release it to you local side, and remove then this text.

*The header text:

*Overview service solution TJ 8529

*This text is for the arrow A

*S60/V70/XC70/S80 Replace engine bay harness(original type) and

*Update*** with plenum lid* & service grommet**

*This Text is for the arrow B

*XC90 Replace engine bay harness (original type)

and update*** with plenum lid* & service grommet**

*This text is for the arrow C

*S60/V70/XC70/S80 Replace engine bay harness

w/ superceeded part (integrated lid)

*This text is for the arrow D

*XC90 Replace engine bay harness

w/ superceeded part (integrated lid)

*This text is for A1

*Chassis number

2004w25- (MY 2005).

184-FC1-390000->

285-FC1-459000->

295-FC1-173000->

275-FC1-134000->

285-FC2-459000->

384-FC2-425000->

*This text is for A2

*Chassis number

2004w46-

275-FC1-131042

*This text is for A3

*Chassis number

2005w20- (MY 2006).

184-FC1-426000

285-FC1-530000

295-FC1-208000

275-FC1-224000

285-FC2-530000

384-FC2-500000

*This text is for A4

*New plenum lid in

production:

184-FC1-435423->

285-FC1-555060->

295-FC1-220845->

275-FC1-256551->

285-FC2-554206->

384-FC2-522407->

Howell, Rosa (NHTSA)

From: tiesend@volvocars.com
Sent: Monday, September 06, 2010 7:56 AM
Subject: TJ EN-GB 8529
Attachments: T9075EN01.doc; New plenum box 2005w40-.JPG; CEM service overview.ppt

Title Electrical function and communication symptom in M/Y 2005-2006, water in CEM
Status Released
Ref No SE8529.14.0 en-GB
Status Date 2006-04-10
Issuer TINGMAN1 - Thomas Ingman
Issue Date 2006-04-10
Partner 4 SE PVT PVT
Reference Q2-060322
Func Group 3729
Func Desc miscellaneous

Attachment

File Name	File Size
T9075EN01.doc	0.1503 MB
New plenum box 2005w40-.JPG	0.0568 MB
CEM service overview.ppt	0.2290 MB

Vehicle Type

Type	Eng	Eng Desc	Sales	Body	Gear	Steer	Model Year	Plant	Chassis Range	Struc Week Range
184							2005-2006	21	0390000-0435423	200425-200540
275							2005-2006	21	0134000-0256551	200425-200540
285							2005-2006	21	0459000-0555060	200425-200540
285							2005-2006	22	0459000-0554206	200425-200540
295							2005-2006	21	0173000-0220845	200425-200540
384							2005-2006	22	0425000-0522407	200425-200540

CSC

Code	Description
BJ	Starting/Engine does not start/Unsure when/at all times
EY	Headlights/Does not work
CI	Tail light/Brake light does not work
IV	Text window and warning symbol/Text message

DTC

Text

* Update in attachment CEM service overview box A2

DESCRIPTION: Various electrical function and communication symptoms may occur in M/Y

2005-2006 vehicles caused by wet corrosion in the CEM connector, if water has penetrated through the plenum box by the sealing grommet.

The grommet that seals the cables to the CEM may not seal good enough, if it has been incorrectly assembled.

This may cause a number of different functionality symptoms and DTC's to be set.

Examples:

- Headlight on, even if ignition key is taken out of ignition lock.
- Warning messages in DIM display.
- Warning lamps lit up.
- brake lights always on.
- no start condition.

PRODUCT MODIFICATION: A new plenum box (refer to picture "new plenum box 2005w40-")with integrated rubber grommet was introduced in VCC production from 2005 week 40.

Chassis number 2005w40:

184 21 435423-

285 21 555060-

295 21 220845-

275 21 256551-

285 22 554206-

384 22 522407-

MATERIAL RETURN: If requested in TR.

TECHNICAL REPORT: Yes, please submit a TR if you found water ingress after chassis range in TJ header.

SERVICE: If there are signs of water penetration in plenum box and/ or wet corrosion at CEM

connectors, then it is necessary to:

- read out / erase DTC's.
- replace engine bay harness.
- Update the new engine bay harness S60/V70/XC70/S80, cars between 2004w25 - 2005w20 see instruction T9075.doc
- Update the new engine bay harness XC90, cars between 2004w25 - 2004w45 see instruction T9075.doc
- replace CEM (according to VIDA).

PARTS:

Engine bay cable harness, check VIDA parts catalogue.

Plenum lid, P/N 30728860 LHD

Plenum lid, P/N 30728861 RHD

Service grommet, P/N 30775689

Cable tie, P/N 2x 983750

VSTG OPERATION NUMBER:

36001-2 - Read out / erase DTC's (first time)

36002-3 - Read out / erase DTC's (second time)

99376-2 - Rubber seal cable harness engine replace

37206-2 - CEM, replace

General Operation - Engine harness, replace

The text below is for the attachment CEM service overview. Please copy and paste before release it to you local side, and remove then this text.

The header text:

Overview service solution TJ 8529

This text is for the arrow A

S60/V70/XC70/S80 Replace engine bay harness(original type) and

Update*** with plenum lid* & service grommet**

This Text is for the arrow B

XC90 Replace engine bay harness (original type)

and update*** with plenum lid* & service grommet**

This text is for the arrow C

S60/V70/XC70/S80 Replace engine bay harness

w/ superceded part (integrated lid)

This text is for the arrow D

XC90 Replace engine bay harness

w/ superceded part (integrated lid)

This text is for A1

Chassis number

2004w25- (MY 2005).

184-FC1-390000->

285-FC1-459000->

295-FC1-173000->

275-FC1-134000->

285-FC2-459000->

384-FC2-425000->

This text is for A2

Chassis number

2004w46-

*275-FC1-167357

This text is for A3

Chassis number

2005w20- (MY 2006).

184-FC1-426000

285-FC1-530000

295-FC1-208000

275-FC1-224000

285-FC2-530000

384-FC2-500000

This text is for A4

New plenum lid in

production:

184-FC1-435423->

285-FC1-555060->

295-FC1-220845->

275-FC1-256551->

285-FC2-554206->

384-FC2-522407->

Howell, Rosa (NHTSA)

From: tiesend@volvocars.com
Sent: Monday, September 06, 2010 7:56 AM
Subject: TJ EN-GB 8529
Attachments: T9075EN01.doc; New plenum box 2005w40-.JPG; CEM service overview.ppt

Title Electrical function and communication symptom in M/Y 2005-2006, water in CEM
Ref No SE8529.15.0 en-GB
Issuer TINGMAN1 - Thomas Ingman
Partner 4 SE PVT PVT
Status Released
Status Date 2007-04-25
Issue Date 2007-04-18
Reference Q2-060322

Func Group 3729
Func Desc miscellaneous

Attachment

File Name	File Size
T9075EN01.doc	0.1503 MB
New plenum box 2005w40-.JPG	0.0568 MB
CEM service overview.ppt	0.2290 MB

Vehicle Type

Type	Eng	Eng Desc	Sales	Body	Gear	Steer	Model Year	Plant	Chassis Range	Struc Week Range
184							2005-2006	21	0390000-0435423	200425-200540
275							2005-2006	21	0134000-0256551	200425-200540
285							2005-2006	21	0459000-0555060	200425-200540
285							2005-2006	22	0459000-0554206	200425-200540
295							2005-2006	21	0173000-0220845	200425-200540
384							2005-2006	22	0425000-0522407	200425-200540

CSC

Code	Description
BJ	Starting/Engine does not start/Unsure when/at all times
EY	Headlights/Does not work
CI	Tail light/Brake light does not work
IV	Text window and warning symbol/Text message

DTC

Text

*It has come to our understanding that on P2 MY2005 and early 2006 cars have had the old plenum lid replaced. In some cases with corrosion the CEM has been replaced but not the harness. We strongly urge you to always install the service grommet and the new service lid as described below, even if the engine bay harness is not replaced.

DESCRIPTION: Various electrical function and communication symptoms may occur in M/Y

2005-2006 vehicles caused by wet corrosion in the CEM connector, if water has penetrated through the plenum box by the sealing grommet.

The grommet that seals the cables to the CEM may not seal good enough, if it has been incorrectly assembled.

This may cause a number of different functionality symptoms and DTC's to be set.

Examples:

- Headlight on, even if ignition key is taken out of ignition lock.
- Warning messages in DIM display.
- Warning lamps lit up.
- brake lights always on.
- no start condition.

PRODUCT MODIFICATION: A new plenum box (refer to picture "new plenum box 2005w40-")with integrated rubber grommet was introduced in VCC production from 2005 week 40.

Chassis number 2005w40:

184 21 435423-

285 21 555060-

295 21 220845-

275 21 256551-

285 22 554206-

384 22 522407-

MATERIAL RETURN: If requested in TR.

TECHNICAL REPORT: Yes, please submit a TR if you found water ingress after chassis range in TJ header.

SERVICE: If there are signs of water penetration in plenum box and/ or wet corrosion at CEM

connectors, then it is necessary to:

- read out / erase DTC's.
- replace engine bay harness.
- Update the new engine bay harness S60/V70/XC70/S80, cars between 2004w25 - 2005w20 see instruction T9075.doc
- Update the new engine bay harness XC90, cars between 2004w25 - 2004w45 see instruction T9075.doc
- replace CEM (according to VIDA).

PARTS:

Engine bay cable harness, check VIDA parts catalogue.

Plenum lid, P/N 30728860 LHD

Plenum lid, P/N 30728861 RHD

Service grommet, P/N 30775689

Cable tie, P/N 2x 983750

VSTG OPERATION NUMBER:

36001-2 - Read out / erase DTC's (first time)

36002-3 - Read out / erase DTC's (second time)

99376-2 - Rubber seal cable harness engine replace

37206-2 - CEM, replace

General Operation - Engine harness, replace

The text below is for the attachment CEM service overview. Please copy and paste before release it to you local side, and remove then this text.

The header text:

Overview service solution TJ 8529

This text is for the arrow A

S60/V70/XC70/S80 Replace engine bay harness(original type) and

Update*** with plenum lid* & service grommet**

This Text is for the arrow B

XC90 Replace engine bay harness (original type)

and update*** with plenum lid* & service grommet**

This text is for the arrow C

S60/V70/XC70/S80 Replace engine bay harness

w/ superceded part (integrated lid)

This text is for the arrow D

XC90 Replace engine bay harness

w/ superceded part (integrated lid)

This text is for A1

Chassis number

2004w25- (MY 2005).

184-FC1-390000->

285-FC1-459000->

295-FC1-173000->

275-FC1-134000->

285-FC2-459000->

384-FC2-425000->

This text is for A2

Chassis number

2004w46-

275-FC1-167357

This text is for A3

Chassis number

2005w20- (MY 2006).

184-FC1-426000

285-FC1-530000

295-FC1-208000

275-FC1-224000

285-FC2-530000

384-FC2-500000

This text is for A4

New plenum lid in

production:

184-FC1-435423->


285-FC1-555060->

295-FC1-220845->

275-FC1-256551->

285-FC2-554206->

384-FC2-522407->



Howell, Rosa (NHTSA)

From: tiesend@volvocars.com
Sent: Monday, September 06, 2010 7:56 AM
Subject: TJ EN-GB 8529
Attachments: T9159EN01.doc; New plenum box 2005w40-.JPG; Rubber gasket.JPG; T9158EN01.doc

Title Electrical function and communication symptom in M/Y 2005-2006, water in CEM
Status Released
Ref No SE8529.16.0 en-GB
Status Date 2008-05-30
Issuer AMART111 - Åke Martinsson
Issue Date 2007-10-25
Partner 4 SE PVT PVT
Reference Q2-060322

Func Group 3729
Func Desc miscellaneous

Attachment

File Name	File Size
T9159EN01.doc	0.4628 MB
New plenum box 2005w40-.JPG	0.0254 MB
Rubber gasket.JPG	0.0210 MB
T9158EN01.doc	0.4624 MB

Vehicle Type

Type	Eng	Eng Desc	Sales	Body	Gear	Steer	Model Year	Plant	Chassis Range	Struc Week Range
184							2005-2006	21	0390000-0435423	200425-200540
275							2005-2006	21	0134000-0256551	200425-200540
285							2005-2006	21	0459000-0555060	200425-200540
285							2005-2006	22	0459000-0554206	200425-200540
295							2005-2006	21	0173000-0220845	200425-200540
384							2005-2006	22	0425000-0522407	200425-200540

CSC

Code	Description
BJ	Starting/Engine does not start/Unsure when/at all times
EY	Headlights/Does not work
CI	Tail light/Brake light does not work
IV	Text window and warning symbol/Text message

DTC

Text

- * New TJ instruction attachments added
- * DESCRIPTION: Electrical function and communication symptoms may occur in M/Y 2005-2006
- * vehicles caused by wet corrosion in the CEM connector, if water has penetrated through the
- * plenum box via the sealing grommet.
- * The grommet that seals the cables to the CEM may not seal good enough, if it has been
- * incorrectly assembled.

- * This may cause different functionality symptoms and DTC's to be set.
- * Examples:
 - * - Headlight on, even if ignition key is taken out of ignition lock.
 - * - Warning messages in DIM display.
 - * - Brake lights always on while parked.
 - * - No start condition.
- * PRODUCT MODIFICATION: A new plenum box (see picture, New plenum box 2005w40-)
- * with integrated rubber grommet was introduced in VCC production from 2005 week 40.
- * See end chassis break points in TJ header.
- * MATERIAL RETURN: If requested in vehicle report.
- * TECHNICAL REPORT: Yes, please submit a report if there are signs of water ingress after the
- * chassis break points in TJ header.
- * SERVICE: If there are signs of water penetration in plenum box and / or wet corrosion at CEM
- * connectors, it is necessary to:
 - * - Replace the plenum cover in S60/V70/XC70/S80, cars between 2004w25-2005w20,
 - * See instruction T9158.
 - * - Replace the plenum cover in XC90, cars between 2004w25-2004w45,
 - * See instruction T9158.
 - * - Replace engine bay connectors and terminals with extension cables. See instruction T9159.
 - * - replace CEM (according to VIDA).
- * NOTE! See instruction T9158, operation 15 and caution text. Both steel washer and rubber
- * gasket must be moved over to the new cover. See attached picture, Rubber gasket.JPG
- * PARTS: See attached instructions T9158 and T9159.
- * VSTG OPERATION NUMBER:
 - * 99376-2 Rubber seal cable harness engine, replace
 - * 37206-2 CEM, replace
 - * 36004-2 Software control module downloading

Howell, Rosa (NHTSA)

From: tiesend@volvocars.com
Sent: Monday, September 06, 2010 7:57 AM
Subject: TJ EN-GB 8529
Attachments: T9159EN01.doc; Rubber gasket.JPG; New plenum box 2005w40-.JPG; T9158EN01.doc

Title	Electrical function and communication symptom in M/Y 2005-2006, water in CEM	Status	Released
Ref No	SE8529.17.0 en-GB	Status Date	2008-06-05
Issuer	AMART111 - Åke Martinsson	Issue Date	2008-06-05
Partner	4 SE PVT PVT	Reference	Q2-060322

Func Group 3729

Func Desc miscellaneous

Attachment

File Name	File Size
T9159EN01.doc	0.5078 MB
Rubber gasket.JPG	0.0210 MB
New plenum box 2005w40-.JPG	0.0254 MB
T9158EN01.doc	0.4628 MB

Vehicle Type

Type	Eng	Eng Desc	Sales	Body	Gear	Steer	Model Year	Plant	Chassis Range	Struc Week Range
184							2005-2006	21	0390000-0435423	200425-200540
275							2005-2006	21	0134000-0256551	200425-200540
285							2005-2006	21	0459000-0555060	200425-200540
285							2005-2006	22	0459000-0554206	200425-200540
295							2005-2006	21	0173000-0220845	200425-200540
384							2005-2006	22	0425000-0522407	200425-200540

CSC

Code	Description
BJ	Starting/Engine does not start/Unsure when/at all times
EY	Headlights/Does not work
CI	Tail light/Brake light does not work
IV	Text window and warning symbol/Text message

DTC

Text

* TJ instruction attachments "T9158EN01.doc" and "T9159EN01.doc" changed in headers.

DESCRIPTION: Electrical function and communication symptoms may occur in M/Y 2005-2006

vehicles caused by wet corrosion in the CEM connector, if water has penetrated through the plenum box via the sealing grommet.

The grommet that seals the cables to the CEM may not seal good enough, if it has been incorrectly assembled.

This may cause different functionality symptoms and DTC's to be set.

Examples:

- Headlight on, even if ignition key is taken out of ignition lock.
- Warning messages in DIM display.
- Brake lights always on while parked.
- No start condition.

PRODUCT MODIFICATION: A new plenum box (see picture, New plenum box 2005w40-)

with integrated rubber grommet was introduced in VCC production from 2005 week 40.

See end chassis break points in TJ header.

MATERIAL RETURN: If requested in vehicle report.

TECHNICAL REPORT: Yes, please submit a report if there are signs of water ingress after the chassis break points in TJ header.

SERVICE: If there are signs of water penetration in plenum box and / or wet corrosion at CEM connectors, it is necessary to:

- Replace the plenum cover in S60/V70/XC70/S80, cars between 2004w25-2005w20,

See instruction T9158.

- Replace the plenum cover in XC90, cars between 2004w25-2004w45,

See instruction T9158.

- Replace engine bay connectors and terminals with extension cables. See instruction T9159.

- replace CEM (according to VIDA).

NOTE! See instruction T9158, operation 15 and caution text. Both steel washer and rubber gasket must be moved over to the new cover. See attached picture, Rubber gasket.JPG

PARTS: See attached instructions T9158 and T9159.

VSTG OPERATION NUMBER:

99376-2 Rubber seal cable harness engine, replace

37206-2 CEM, replace

36004-2 Software control module downloading

Howell, Rosa (NHTSA)

From: tiesend@volvocars.com
Sent: Monday, September 06, 2010 7:57 AM
Subject: TJ EN-GB 8529
Attachments: Rubber gasket.JPG; New plenum box 2005w40-.JPG; T9159EN02.doc; T9158EN01.doc

Title	Electrical function and communication symptom in M/Y 2005-2006, water in CEM	Status	Released
Ref No	SE8529.18.0 en-GB	Status Date	2008-08-14
Issuer	AMART111 - Åke Martinsson	Issue Date	2008-08-13
Partner	4 SE PVT PVT	Reference	Q2-060322

Func Group 3729

Func Desc miscellaneous

Attachment

File Name	File Size
Rubber gasket.JPG	0.0210 MB
New plenum box 2005w40-.JPG	0.0254 MB
T9159EN02.doc	0.5043 MB
T9158EN01.doc	0.4628 MB

Vehicle Type

Type	Eng	Eng Desc	Sales	Body	Gear	Steer	Model Year	Plant	Chassis Range	Struc Week Range
184							2005-2006	21	0390000-0435423	200425-200540
275							2005-2006	21	0134000-0256551	200425-200540
285							2005-2006	21	0459000-0555060	200425-200540
285							2005-2006	22	0459000-0554206	200425-200540
295							2005-2006	21	0173000-0220845	200425-200540
384							2005-2006	22	0425000-0522407	200425-200540

CSC

Code	Description
BJ	Starting/Engine does not start/Unsure when/at all times
EY	Headlights/Does not work
CI	Tail light/Brake light does not work
IV	Text window and warning symbol/Text message

DTC

Text

* TJ instruction attachment "T9159EN01.doc" changed to "T9159EN02.doc" concerning material

* and the number of pins in the extension cable connectors.

DESCRIPTION: Electrical function and communication symptoms may occur in M/Y 2005-2006

vehicles caused by wet corrosion in the CEM connector, if water has penetrated through the

plenum box via the sealing grommet.

The grommet that seals the cables to the CEM may not seal good enough, if it has been

incorrectly assembled.

This may cause different functionality symptoms and DTC's to be set.

Examples:

- Headlight on, even if ignition key is taken out of ignition lock.
- Warning messages in DIM display.
- Brake lights always on while parked.
- No start condition.

PRODUCT MODIFICATION: A new plenum box (see picture, New plenum box 2005w40-) with integrated rubber grommet was introduced in VCC production from 2005 week 40.

See end chassis break points in TJ header.

MATERIAL RETURN: If requested in vehicle report.

TECHNICAL REPORT: Yes, please submit a report if there are signs of water ingress after the chassis break points in TJ header.

SERVICE: If there are signs of water penetration in plenum box and / or wet corrosion at CEM connectors, it is necessary to:

- Replace the plenum cover in S60/V70/XC70/S80, cars between 2004w25-2005w20,

See instruction T9158.

- Replace the plenum cover in XC90, cars between 2004w25-2004w45,

See instruction T9158.

- Replace engine bay connectors and terminals with extension cables. See instruction T9159.

- replace CEM (according to VIDA).

NOTE! See instruction T9158, operation 15 and caution text. Both steel washer and rubber gasket must be moved over to the new cover. See attached picture, Rubber gasket.JPG

PARTS: See attached instructions T9158 and T9159.

VSTG OPERATION NUMBER:

99376-2 Rubber seal cable harness engine, replace

37206-2 CEM, replace

36004-2 Software control module downloading

Howell, Rosa (NHTSA)

From: tiesend@volvocars.com
Sent: Monday, September 06, 2010 7:44 AM
Subject: TJ EN-GB 8529
Attachments: Instruction to TJ8529.doc

Title	Electrical function and communication symptom in M/Y 2005	Status	Released
Ref No	SE8529.3.0 en-GB	Status Date	2005-01-19
Issuer	PAHLBERG - Peter Ahlberg	Issue Date	2005-01-19
Partner	4 SE PVT PVT	Reference	Q2-060322

Func Group 3729

Func Desc miscellaneous

Attachment

File Name	File Size
Instruction to TJ8529.doc	2.3666 MB

Vehicle Type

Type	Eng	Eng Desc	Sales	Body	Gear	Steer	Model Year	Plant	Chassis Range	Struc Week Range
184							2005-9999	21	0390000-9999999	200425-999999
275							2005-9999	21	0134000-9999999	200425-999999
285							2005-9999		0459000-9999999	200425-999999
295							2005-9999	21	0173000-9999999	200425-999999
384							2005-9999	22	0425000-9999999	200425-999999

CSC

DTC

Text

DESCRIPTION: Various electrical function and communication symptoms may occur in M/Y

2005 vehicles caused by wet corrosion in the CEM connector, if water has penetrated through the plenum box by the sealing grommet.

The grommet that seals the cables to the CEM may not seal good enough, if it has been incorrectly assembled .

This may cause a number of different functionality symptoms and DTC's to be set.

Examples: - Headlight on, even if ignition key is taken out of ignition lock.

- Warning messages in DIM display.

- Warning lamps lit up.

PRODUCT MODIFICATION: An improved grommet is under development.

Introduction time scheduled to end of 2004/ beginning of 2005.

A temporary production solution has been introduced using butyl tape at the grommets slide

in plenum box and cable tie for the wire harness. Unfortunately in some cases water may still penetrate into the plenum box due to improper installation of butyl tape and/or grommet.

MATERIAL RETURN: -

TECHNICAL REPORT: Yes, please submit a TR for the root cause of the water penetration.

* Please include the following analysis in the TR:

* 1. Check that the plenum box lid is correctly closed before removing. Y/N?

* 2. All 5 clips locked position Y/N?

* 3. Guide pin in the plenum box lid on the inside of the plenum box Y/N?

* 4. No wires caught in between Y/N?

* 5. Plenum sealing undamaged both at the lid and at the housing Y/N?

* 6. Check that the drainage channel is open in both ends.

SERVICE: If there are signs of water penetration in plenum box and/ or wet corrosion at CEM connectors, then it is necessary to:

- locate and correct the water leakage.

- dry plenum box, rubber grommet from water .

- read out / erase DTC's.

- if missing or damaged butyl tape is found, remove old butyl tape and install new butyl tape according to instruction.

- replace CEM according to Vadis.

- replace engine bay harness to CEM, if the terminals are damaged/ corroded.

- test and verify all functions, read out DTC's.

PARTS:

Required butyl tape must be 100 mm in length and 5 mm in diameter.

Incorrect butyl tape (too thick or too long) will cause water leakage due to plenum box lid can not close correctly.

One cable tie P/N 983750, for fixation of wire harness.

The butyl tape is not yet available from Volvo Cars Parts, but can be ordered from PVT office if sending a SR request in TIE system.

VSTG OPERATION NUMBER:

36001-2 - Read out / erase DTC's (first time)

36002-3 - Read out / erase DTC's (second time)

37958-2 - Sealing plenum chamber, install

37206-2 - CEM, replace

General Operation - Engine harness, replace

Howell, Rosa (NHTSA)

From: tiesend@volvocars.com
Sent: Monday, September 06, 2010 7:38 AM
Subject: TJ EN-GB 8529
Attachments: location of Grommet partnumber.doc; Instruction to TJ8529 ver 2.doc

Title	Electrical function and communication symptom in M/Y 2005	Status	Released
Ref No	SE8529.4.0 en-GB	Status Date	2005-02-17
Issuer	MSANDBER - Mikael Sandberg	Issue Date	2005-02-08
Partner	4 SE PVT PVT	Reference	Q2-060322

Func Group 3729

Func Desc miscellaneous

Attachment

File Name	File Size
location of Grommet partnumber.doc	0.1435 MB
Instruction to TJ8529 ver 2.doc	1.0996 MB

Vehicle Type

Type	Eng	Eng Desc	Sales	Body	Gear	Steer	Model Year	Plant	Chassis Range	Struc Week Range
184							2005-9999	21	0390000-9999999	200425-999999
275							2005-9999	21	0134000-9999999	200425-999999
285							2005-9999		0459000-9999999	200425-999999
295							2005-9999	21	0173000-9999999	200425-999999
384							2005-9999	22	0425000-9999999	200425-999999

CSC

DTC

Text

DESCRIPTION: Various electrical function and communication symptoms may occur in M/Y

2005 vehicles caused by wet corrosion in the CEM connector, if water has penetrated

through the plenum box by the sealing grommet.

The grommet that seals the cables to the CEM may not seal good enough, if it has been

incorrectly assembled.

This may cause a number of different functionality symptoms and DTC's to be set.

Examples: - Headlight on, even if ignition key is taken out of ignition lock.

- Warning messages in DIM display.

- Warning lamps lit up.

* PRODUCT MODIFICATION: An improved rubber grommet was introduced in production as

* a running change from approx. production week 2005 week 01.

- * Chassis number for Gothenburg produced cars: 184 (FC1) 407065, 285 (FC1) 499870,
- * 295 (FC1) 192783, 275 (FC1) 189110
- * Chassis number for Gent produced cars: 285 (FC 2) 499176, 384 (FC 2) 465194
- * New Grommet Part number (see attachment): P/N 30739162
- * MATERIAL RETURN: If requested in TR.

TECHNICAL REPORT: Yes, please submit a TR for the root cause of the water penetration.

Please include the following analysis in the TR:

- * 1. Check that the plenum box lid is correctly closed before removing, Car OK? (Y/N)
- * 2. All 5 clips locked position, Car OK? (Y/N)
- * 3. Guide pin in the plenum box lid on the inside of the plenum box, Car OK? (Y/N)
- * 4. No wires caught in between, Car OK? (Y/N)
- * 5. Plenum lid sealing undamaged, Car OK? (Y/N)
- * 6. Plenum box housing sealing undamaged at the bottom, Car OK? (Y/N)
- * 7. Check that the water drainage channel is open in both ends, Car OK? (Y/N)
- * 8. Presence of condensed water inside the windshield, Car OK? (Y/N)

SERVICE: If there are signs of water penetration in plenum box and/ or wet corrosion at CEM connectors, then it is necessary to:

- locate and correct the water leakage.
- dry plenum box, rubber grommet from water.
- read out / erase DTC's.
- * - replace engine bay harness if the terminals are corroded (green/white colour).
- replace CEM (according to Vadis).
- * If engine bay harness has the old type of rubber grommet, P/N 9441111:
- * - Install sealant according to instruction.
- test and verify all functions, read out DTC's.

PARTS:

- * Sealant (310 ml), P/N 1161235 (required amount).

One cable tie P/N 983750, for fixation of wire harness.

* Engine bay cable harness, check Vadis parts catalogue.

VSTG OPERATION NUMBER:

36001-2 - Read out / erase DTC's (first time)

36002-3 - Read out / erase DTC's (second time)

37958-2 - Sealing plenum chamber, install

37206-2 - CEM, replace

General Operation - Engine harness, replace

Howell, Rosa (NHTSA)

From: tiesend@volvocars.com
Sent: Monday, September 06, 2010 7:40 AM
Subject: TJ EN-GB 8529
Attachments: location of Grommet partnumber.doc; Instruction to TJ8529 ver 2.doc; Plenum lid sealant.jpg

Title	Electrical function and communication symptom in M/Y 2005	Status	Released
Ref No	SE8529.5.0 en-GB	Status Date	2005-03-18
Issuer	PAHLBERG - Peter Ahlberg	Issue Date	2005-03-18
Partner	4 SE PVT PVT	Reference	Q2-060322

Func Group 3729

Func Desc miscellaneous

Attachment

File Name	File Size
location of Grommet partnumber.doc	0.1435 MB
Instruction to TJ8529 ver 2.doc	1.0996 MB
Plenum lid sealant.jpg	0.0784 MB

Vehicle Type

Type	Eng	Eng Desc	Sales	Body	Gear	Steer	Model Year	Plant	Chassis Range	Struc Week Range
184							2005-9999	21	0390000-9999999	200425-999999
275							2005-9999	21	0134000-9999999	200425-999999
285							2005-9999		0459000-9999999	200425-999999
295							2005-9999	21	0173000-9999999	200425-999999
384							2005-9999	22	0425000-9999999	200425-999999

CSC

DTC

Text

DESCRIPTION: Various electrical function and communication symptoms may occur in M/Y

2005 vehicles caused by wet corrosion in the CEM connector, if water has penetrated

through the plenum box by the sealing grommet.

The grommet that seals the cables to the CEM may not seal good enough, if it has been incorrectly assembled.

This may cause a number of different functionality symptoms and DTC's to be set.

Examples: - Headlight on, even if ignition key is taken out of ignition lock.

- Warning messages in DIM display.

- Warning lamps lit up.

PRODUCT MODIFICATION: An improved rubber grommet was introduced in production as

a running change from approx. production week 2005 week 01.

Chassis number for Gothenburg produced cars: 184 (FC1) 407065, 285 (FC1) 499870,
295 (FC1) 192783, 275 (FC1) 189110

Chassis number for Gent produced cars: 285 (FC 2) 499176, 384 (FC 2) 465194

New Grommet Part number (see attachment): P/N 30739162

MATERIAL RETURN: If requested in TR.

TECHNICAL REPORT: Yes, please submit a TR for the root cause of the water penetration.

Please include the following analysis in the TR:

1. Check that the plenum box lid is correctly closed before removing, Car OK? (Y/N)
2. All 5 clips locked position, Car OK? (Y/N)
3. Guide pin in the plenum box lid on the inside of the plenum box, Car OK? (Y/N)
4. No wires caught in between, Car OK? (Y/N)
5. Plenum lid sealing undamaged, Car OK? (Y/N)
6. Plenum box housing sealing undamaged at the bottom, Car OK? (Y/N)
7. Check that the water drainage channel is open in both ends, Car OK? (Y/N)
8. Presence of condensed water inside the windshield, Car OK? (Y/N)

SERVICE: If there are signs of water penetration in plenum box and/ or wet corrosion at CEM
connectors, then it is necessary to:

- locate and correct the water leakage.
- dry plenum box, rubber grommet from water.
- read out / erase DTC's.
- replace engine bay harness if the terminals are corroded (green/white colour).
- replace CEM (according to Vadis).
- * If location of water leakage not is found, apply sealant(P/N 1161235) in the plenum lid
- * according to attachment "Plenum lid sealant".

If engine bay harness has the old type of rubber grommet, P/N 9441111:

- Install sealant according to instruction.
- test and verify all functions, read out DTC's.

PARTS:

Sealant (310 ml), P/N 1161235 (required amount).

One cable tie P/N 983750, for fixation of wire harness.

Engine bay cable harness, check Vadis parts catalogue.

VSTG OPERATION NUMBER:

36001-2 - Read out / erase DTC's (first time)

36002-3 - Read out / erase DTC's (second time)

37958-2 - Sealing plenum chamber, install

37206-2 - CEM, replace

General Operation - Engine harness, replace

Howell, Rosa (NHTSA)

From: tiesend@volvocars.com
Sent: Monday, September 06, 2010 7:43 AM
Subject: TJ EN-GB 8529
Attachments: Plenum lid sealant.jpg; Instruction to TJ8529 ver 2.doc; location of Grommet partnumber.doc

Title	Electrical function and communication symptom in M/Y 2005	Status	Released
Ref No	SE8529.6.0 en-GB	Status Date	2005-04-15
Issuer	PAHLBERG - Peter Ahlberg	Issue Date	2005-04-15
Partner	4 SE PVT PVT	Reference	Q2-060322

Func Group 3729

Func Desc miscellaneous

Attachment

File Name	File Size
Plenum lid sealant.jpg	0.0784 MB
Instruction to TJ8529 ver 2.doc	1.0996 MB
location of Grommet partnumber.doc	0.1435 MB

Vehicle Type

Type	Eng	Eng Desc	Sales	Body	Gear	Steer	Model Year	Plant	Chassis Range	Struc Week Range
184							2005-9999	21	0390000-9999999	200425-999999
275							2005-9999	21	0134000-9999999	200425-999999
285							2005-9999		0459000-9999999	200425-999999
295							2005-9999	21	0173000-9999999	200425-999999
384							2005-9999	22	0425000-9999999	200425-999999

CSC

DTC

Text

DESCRIPTION: Various electrical function and communication symptoms may occur in M/Y

2005 vehicles caused by wet corrosion in the CEM connector, if water has penetrated

through the plenum box by the sealing grommet.

The grommet that seals the cables to the CEM may not seal good enough, if it has been incorrectly assembled.

This may cause a number of different functionality symptoms and DTC's to be set.

Examples: - Headlight on, even if ignition key is taken out of ignition lock.

- Warning messages in DIM display.

- Warning lamps lit up.

PRODUCT MODIFICATION: An improved rubber grommet was introduced in production as

a running change from approx. production week 2005 week 01.

Chassis number for Gothenburg produced cars: 184 (FC1) 407065, 285 (FC1) 499870,
295 (FC1) 192783, 275 (FC1) 189110

Chassis number for Gent produced cars: 285 (FC 2) 499176, 384 (FC 2) 465194

New Grommet Part number (see attachment): P/N 30739162

MATERIAL RETURN: If requested in TR.

TECHNICAL REPORT: Yes, please submit a TR for the root cause of the water penetration.

Please include the following analysis in the TR:

1. Check that the plenum box lid is correctly closed before removing, Car OK? (Y/N)
2. All 5 clips locked position, Car OK? (Y/N)
3. Guide pin in the plenum box lid on the inside of the plenum box, Car OK? (Y/N)
4. No wires caught in between, Car OK? (Y/N)
5. Plenum lid sealing undamaged, Car OK? (Y/N)
6. Plenum box housing sealing undamaged at the bottom, Car OK? (Y/N)
7. Check that the water drainage channel is open in both ends, Car OK? (Y/N)
8. Presence of condensed water inside the windshield, Car OK? (Y/N)

SERVICE: If there are signs of water penetration in plenum box and/ or wet corrosion at CEM connectors, then it is necessary to:

- locate and correct the water leakage.
- dry plenum box, rubber grommet from water.
- read out / erase DTC's.
- replace engine bay harness if the terminals are corroded (green/white color).
- replace CEM (according to Vadis).

If location of water leakage not is found, apply sealant(P/N 1161235) in the plenum lid according to attachment "Plenum lid sealant".

If engine bay harness has the old type of rubber grommet, P/N 9441111:

- Install sealant according to instruction.
- test and verify all functions, read out DTC's.

* If engine bay harness has the new type of rubber grommet in the plenum box P/N 30739162:

* -No sealant is necessary since the new grommet has thicker walls inside the slot and water

* proof by itself.

PARTS:

Sealant (310 ml), P/N 1161235 (required amount).

One cable tie P/N 983750, for fixation of wire harness.

Engine bay cable harness, check Vadis parts catalogue.

VSTG OPERATION NUMBER:

36001-2 - Read out / erase DTC's (first time)

36002-3 - Read out / erase DTC's (second time)

37958-2 - Sealing plenum chamber, install

37206-2 - CEM, replace

General Operation - Engine harness, replace

Howell, Rosa (NHTSA)

From: tiesend@volvocars.com
Sent: Monday, September 06, 2010 7:46 AM
Subject: TJ EN-GB 8529
Attachments: Instruction to TJ8529 ver 2.doc; location of Grommet partnumber.doc; plenum lid date code location.jpg

Title	Electrical function and communication symptom in M/Y 2005	Status	Released
Ref No	SE8529.7.0 en-GB	Status Date	2005-05-13
Issuer	MSANDBER - Mikael Sandberg	Issue Date	2005-05-11
Partner	4 SE PVT PVT	Reference	Q2-060322

Func Group 3729

Func Desc miscellaneous

Attachment

File Name	File Size
Instruction to TJ8529 ver 2.doc	1.0996 MB
location of Grommet partnumber.doc	0.1435 MB
plenum lid date code location.jpg	0.0543 MB

Vehicle Type

Type	Eng	Eng Desc	Sales	Body	Gear	Steer	Model Year	Plant	Chassis Range	Struc Week Range
184							2005-2006	21	0390000-9999999	200425-200540
275							2005-2006	21	0134000-9999999	200425-200540
285							2005-2006		0459000-9999999	200425-200540
295							2005-2006	21	0173000-9999999	200425-200540
384							2005-2006	22	0425000-9999999	200425-200540

CSC

DTC

Text

DESCRIPTION: Various electrical function and communication symptoms may occur in M/Y

2005 vehicles caused by wet corrosion in the CEM connector, if water has penetrated

through the plenum box by the sealing grommet.

The grommet that seals the cables to the CEM may not seal good enough, if it has been incorrectly assembled.

This may cause a number of different functionality symptoms and DTC's to be set.

Examples: - Headlight on, even if ignition key is taken out of ignition lock.

- Warning messages in DIM display.

- Warning lamps lit up.

* - brake lights always on.

* - no start condition.

PRODUCT MODIFICATION: An improved rubber grommet was introduced in production as a running change from approx. production week 2005 week 01.

Chassis number for Gothenburg produced cars: 184 (FC1) 407065, 285 (FC1) 499870, 295 (FC1) 192783, 275 (FC1) 189110

Chassis number for Gent produced cars: 285 (FC 2) 499176, 384 (FC 2) 465194

New Grommet Part number (see attachment): P/N 30739162

* An improved plenum box lid with a thicker foam gasket was introduced in VCC production

* from 2005 w 18-29 (depending on variant and factory). All M/Y 2006 should have the new lid.

* The improved lid is marked with date code 2005 05 or newer, see picture for location.

MATERIAL RETURN: If requested in TR.

TECHNICAL REPORT: Yes, please submit a TR for the root cause of the water penetration.

Please include the following analysis in the TR:

1. Check that the plenum box lid is correctly closed before removing, Car OK? (Y/N)
2. All 5 clips locked position, Car OK? (Y/N)
3. Guide pin in the plenum box lid on the inside of the plenum box, Car OK? (Y/N)
4. No wires caught in between, Car OK? (Y/N)
5. Plenum lid sealing undamaged, Car OK? (Y/N)
6. Plenum box housing sealing undamaged at the bottom, Car OK? (Y/N)
7. Check that the water drainage channel is open in both ends, Car OK? (Y/N)
8. Presence of condensed water inside the windshield, Car OK? (Y/N)

SERVICE: If there are signs of water penetration in plenum box and/ or wet corrosion at CEM connectors, then it is necessary to:

- locate and correct the water leakage.
- dry plenum box, rubber grommet from water.
- read out / erase DTC's.
- replace engine bay harness if the terminals are corroded (green/white color).
- replace CEM (according to Vadis).

* - replace the plenum lid

* Only if the engine bay harness has the old type of rubber grommet, P/N 9441111:

- Install sealant according to instruction.

- test and verify all functions, read out DTC's.

* Only if the engine bay harness has the new type of rubber grommet, P/N 30739162:

* - check that there is no butyl tape or sealant in the plenum box slot.

* - verify that the rubber grommet has been installed correctly, fully depressed in the slot.

* Note: If an old engine bay harness with grommet P/N 9441111 is replaced with a new engine bay harness including the new grommet P/N 30739162, remember to clean plenum box slot from butyl tape or sealant.

PARTS:

Sealant (310 ml), P/N 1161235 (required amount).

One cable tie P/N 983750, for fixation of wire harness.

Engine bay cable harness, check Vadis parts catalogue.

* Plenum lid, P/N 9168973

VSTG OPERATION NUMBER:

36001-2 - Read out / erase DTC's (first time)

36002-3 - Read out / erase DTC's (second time)

37958-2 - Sealing plenum chamber, install

37206-2 - CEM, replace

General Operation - Engine harness, replace

Howell, Rosa (NHTSA)

From: tiesend@volvocars.com
Sent: Monday, September 06, 2010 7:46 AM
Subject: TJ EN-GB 8529
Attachments: location of Grommet partnumber.doc; plenum lid date code location.jpg; Instruction to TJ8529 ver 2.doc

Title	Electrical function and communication symptom in M/Y 2005	Status	Released
Ref No	SE8529.8.0 en-GB	Status Date	2005-05-16
Issuer	MSANDBER - Mikael Sandberg	Issue Date	2005-05-16
Partner	4 SE PVT PVT	Reference	Q2-060322

Func Group 3729

Func Desc miscellaneous

Attachment

File Name	File Size
location of Grommet partnumber.doc	0.1435 MB
plenum lid date code location.jpg	0.0543 MB
Instruction to TJ8529 ver 2.doc	1.0996 MB

Vehicle Type

Type	Eng	Eng Desc	Sales	Body	Gear	Steer	Model Year	Plant	Chassis Range	Struc Week Range
184							2005-2006	21	0390000-9999999	200425-200540
275							2005-2006	21	0134000-9999999	200425-200540
285							2005-2006		0459000-9999999	200425-200540
295							2005-2006	21	0173000-9999999	200425-200540
384							2005-2006	22	0425000-9999999	200425-200540

CSC

DTC

Text

DESCRIPTION: Various electrical function and communication symptoms may occur in M/Y

2005 vehicles caused by wet corrosion in the CEM connector, if water has penetrated

through the plenum box by the sealing grommet.

The grommet that seals the cables to the CEM may not seal good enough, if it has been incorrectly assembled.

This may cause a number of different functionality symptoms and DTC's to be set.

Examples: - Headlight on, even if ignition key is taken out of ignition lock.

- Warning messages in DIM display.
- Warning lamps lit up.
- brake lights always on.

- no start condition.

PRODUCT MODIFICATION: An improved rubber grommet was introduced in production as a running change from approx. production week 2005 week 01.

Chassis number for Gothenburg produced cars: 184 (FC1) 407065, 285 (FC1) 499870, 295 (FC1) 192783, 275 (FC1) 189110

Chassis number for Gent produced cars: 285 (FC 2) 499176, 384 (FC 2) 465194

New Grommet Part number (see attachment): P/N 30739162

An improved plenum box lid with a thicker foam gasket was introduced in VCC production from 2005 w 18-29 (depending on variant and factory). All M/Y 2006 should have the new lid.

The improved lid is marked with date code 2005 05 or newer, see picture for location.

MATERIAL RETURN: If requested in TR.

TECHNICAL REPORT: Yes, please submit a TR for the root cause of the water penetration.

Please include the following analysis in the TR:

1. Check that the plenum box lid is correctly closed before removing, Car OK? (Y/N)
2. All 5 clips locked position, Car OK? (Y/N)
3. Guide pin in the plenum box lid on the inside of the plenum box, Car OK? (Y/N)
4. No wires caught in between, Car OK? (Y/N)
5. Plenum lid sealing undamaged, Car OK? (Y/N)
6. Plenum box housing sealing undamaged at the bottom, Car OK? (Y/N)
7. Check that the water drainage channel is open in both ends, Car OK? (Y/N)
8. Presence of condensed water inside the windshield, Car OK? (Y/N)

SERVICE: If there are signs of water penetration in plenum box and/ or wet corrosion at CEM connectors, then it is necessary to:

- locate and correct the water leakage.
- dry plenum box, rubber grommet from water.
- read out / erase DTC's.
- replace engine bay harness if the terminals are corroded (green/white color).
- replace CEM (according to Vadis).

- replace the plenum lid

Only if the engine bay harness has the old type of rubber grommet, P/N 9441111:

- Install sealant according to instruction.

- test and verify all functions, read out DTC's.

Only if the engine bay harness has the new type of rubber grommet, P/N 30739162:

- check that there is no butyl tape or sealant in the plenum box slot.

- verify that the rubber grommet has been installed correctly, fully depressed in the slot.

Note: If an old engine bay harness with grommet P/N 9441111 is replaced with a new engine bay harness including the new grommet P/N 30739162, remember to clean plenum box slot from butyl tape or sealant.

PARTS:

Sealant (310 ml), P/N 1161235 (required amount).

One cable tie P/N 983750, for fixation of wire harness.

Engine bay cable harness, check Vadis parts catalogue.

* Plenum lid, P/N 9168973 LHD

* Plenum lid, P/N 9168974 RHD

VSTG OPERATION NUMBER:

36001-2 - Read out / erase DTC's (first time)

36002-3 - Read out / erase DTC's (second time)

37958-2 - Sealing plenum chamber, install

37206-2 - CEM, replace

General Operation - Engine harness, replace

Howell, Rosa (NHTSA)

From: tiesend@volvocars.com
Sent: Monday, September 06, 2010 7:46 AM
Subject: TJ EN-GB 8529
Attachments: location of Grommet partnumber.doc; Instruction to TJ8529 ver 2.doc; plenum lid date code location.jpg

Title	Electrical function and communication symptom in M/Y 2005	Status	Released
Ref No	SE8529.9.0 en-GB	Status Date	2005-05-18
Issuer	MSANDBER - Mikael Sandberg	Issue Date	2005-05-18
Partner	4 SE PVT PVT	Reference	Q2-060322

Func Group 3729

Func Desc miscellaneous

Attachment

File Name	File Size
location of Grommet partnumber.doc	0.1435 MB
Instruction to TJ8529 ver 2.doc	1.0996 MB
plenum lid date code location.jpg	0.0543 MB

Vehicle Type

Type	Eng	Eng Desc	Sales	Body	Gear	Steer	Model Year	Plant	Chassis Range	Struc Week Range
184							2005-2006	21	0390000-9999999	200425-200540
275							2005-2006	21	0134000-9999999	200425-200540
285							2005-2006		0459000-9999999	200425-200540
295							2005-2006	21	0173000-9999999	200425-200540
384							2005-2006	22	0425000-9999999	200425-200540

CSC

DTC

Text

DESCRIPTION: Various electrical function and communication symptoms may occur in M/Y

2005 vehicles caused by wet corrosion in the CEM connector, if water has penetrated

through the plenum box by the sealing grommet.

The grommet that seals the cables to the CEM may not seal good enough, if it has been incorrectly assembled.

This may cause a number of different functionality symptoms and DTC's to be set.

Examples: - Headlight on, even if ignition key is taken out of ignition lock.

- Warning messages in DIM display.
- Warning lamps lit up.
- brake lights always on.

- no start condition.

PRODUCT MODIFICATION: An improved rubber grommet was introduced in production as a running change from approx. production week 2005 week 01.

Chassis number for Gothenburg produced cars: 184 (FC1) 407065, 285 (FC1) 499870, 295 (FC1) 192783, 275 (FC1) 189110

Chassis number for Gent produced cars: 285 (FC 2) 499176, 384 (FC 2) 465194

New Grommet Part number (see attachment): P/N 30739162

An improved plenum box lid with a thicker foam gasket was introduced in VCC production

* from 2005 w 18-19. All M/Y 2006 from week 20 should have the new lid.

The improved lid is marked with date code 2005 05 or newer, see picture for location.

* A new plenum box with integrated rubber grommet will be introduced 2005 Q3.

MATERIAL RETURN: If requested in TR.

TECHNICAL REPORT: Yes, please submit a TR for the root cause of the water penetration.

Please include the following analysis in the TR:

1. Check that the plenum box lid is correctly closed before removing, Car OK? (Y/N)
2. All 5 clips locked position, Car OK? (Y/N)
3. Guide pin in the plenum box lid on the inside of the plenum box, Car OK? (Y/N)
4. No wires caught in between, Car OK? (Y/N)
5. Plenum lid sealing undamaged, Car OK? (Y/N)
6. Plenum box housing sealing undamaged at the bottom, Car OK? (Y/N)
7. Check that the water drainage channel is open in both ends, Car OK? (Y/N)
8. Presence of condensed water inside the windshield, Car OK? (Y/N)

SERVICE: If there are signs of water penetration in plenum box and/ or wet corrosion at CEM connectors, then it is necessary to:

- locate and correct the water leakage.
- dry plenum box, rubber grommet from water.
- read out / erase DTC's.
- replace engine bay harness if the terminals are corroded (green/white color).

- replace CEM (according to Vadis).

- replace the plenum lid.

Only if the engine bay harness has the old type of rubber grommet, P/N 9441111:

- Install sealant according to instruction.

- test and verify all functions, read out DTC's.

Only if the engine bay harness has the new type of rubber grommet, P/N 30739162:

- check that there is no butyl tape or sealant in the plenum box slot.

- verify that the rubber grommet has been installed correctly, fully depressed in the slot.

Note: If an old engine bay harness with grommet P/N 9441111 is replaced with a new engine bay harness including the new grommet P/N 30739162, remember to clean plenum box slot from butyl tape or sealant.

PARTS:

Sealant (310 ml), P/N 1161235 (required amount).

One cable tie P/N 983750, for fixation of wire harness.

Engine bay cable harness, check Vadis parts catalogue.

Plenum lid, P/N 9168973 LHD

Plenum lid, P/N 9168974 RHD

VSTG OPERATION NUMBER:

36001-2 - Read out / erase DTC's (first time)

36002-3 - Read out / erase DTC's (second time)

37958-2 - Sealing plenum chamber, install

37206-2 - CEM, replace

General Operation - Engine harness, replace

Howell, Rosa (NHTSA)

From: tiesend@volvocars.com
Sent: Monday, September 06, 2010 7:47 AM
Subject: TJ EN-GB 8529
Attachments: location of Grommet partnumber.doc; Instruction to TJ8529 ver 3.doc; plenum lid date code location.jpg

Title	Electrical function and communication symptom in M/Y 2005	Status	Released
Ref No	SE8529.10.0 en-GB	Status Date	2005-09-16
Issuer	TINGMAN1 - Thomas Ingman	Issue Date	2005-09-16
Partner	4 SE PVT PVT	Reference	Q2-060322

Func Group 3729

Func Desc miscellaneous

Attachment

File Name	File Size
location of Grommet partnumber.doc	0.1435 MB
Instruction to TJ8529 ver 3.doc	2.6357 MB
plenum lid date code location.jpg	0.0543 MB

Vehicle Type

Type	Eng	Eng Desc	Sales	Body	Gear	Steer	Model Year	Plant	Chassis Range	Struc Week Range
184							2005-2006	21	0390000-9999999	200425-200540
275							2005-2006	21	0134000-9999999	200425-200540
285							2005-2006		0459000-9999999	200425-200540
295							2005-2006	21	0173000-9999999	200425-200540
384							2005-2006	22	0425000-9999999	200425-200540

CSC

DTC

Text

DESCRIPTION: Various electrical function and communication symptoms may occur in M/Y

2005 vehicles caused by wet corrosion in the CEM connector, if water has penetrated

through the plenum box by the sealing grommet.

The grommet that seals the cables to the CEM may not seal good enough, if it has been incorrectly assembled.

This may cause a number of different functionality symptoms and DTC's to be set.

Examples: - Headlight on, even if ignition key is taken out of ignition lock.

- Warning messages in DIM display.
- Warning lamps lit up.
- brake lights always on.

- no start condition.

PRODUCT MODIFICATION: An improved rubber grommet was introduced in production as a running change from approx. production week 2005 week 01.

Chassis number for Gothenburg produced cars: 184 (FC1) 407065, 285 (FC1) 499870, 295 (FC1) 192783, 275 (FC1) 189110

Chassis number for Gent produced cars: 285 (FC 2) 499176, 384 (FC 2) 465194

New Grommet Part number (see attachment): P/N 30739162

An improved plenum box lid with a thicker foam gasket was introduced in VCC production from 2005 w 18-19. All M/Y 2006 from week 20 should have the new lid.

The improved lid is marked with date code 2005 05 or newer, see picture for location.

A new plenum box with integrated rubber grommet will be introduced 2005 Q3.

MATERIAL RETURN: If requested in TR.

TECHNICAL REPORT: Yes, please submit a TR for the root cause of the water penetration.

Please include the following analysis in the TR:

1. Check that the plenum box lid is correctly closed before removing, Car OK? (Y/N)
2. All 5 clips locked position, Car OK? (Y/N)
3. Guide pin in the plenum box lid on the inside of the plenum box, Car OK? (Y/N)
4. No wires caught in between, Car OK? (Y/N)
5. Plenum lid sealing undamaged, Car OK? (Y/N)
6. Plenum box housing sealing undamaged at the bottom, Car OK? (Y/N)
7. Check that the water drainage channel is open in both ends, Car OK? (Y/N)
8. Presence of condensed water inside the windshield, Car OK? (Y/N)

SERVICE: If there are signs of water penetration in plenum box and/ or wet corrosion at CEM connectors, then it is necessary to:

- locate and correct the water leakage.
- dry plenum box, rubber grommet from water.
- read out / erase DTC's.
- replace engine bay harness if the terminals are corroded (green/white color).

*- replace CEM (according to VIDA).

- replace the plenum lid.

*- remove one-back valve for the draining pipe plenum seal drivers side. Only markets with *heavy-rain and/or risk for freezing.

Only if the engine bay harness has the old type of rubber grommet, P/N 9441111:

- Install sealant according to instruction.

- test and verify all functions, read out DTC's.

Only if the engine bay harness has the new type of rubber grommet, P/N 30739162:

- check that there is no butyl tape or sealant in the plenum box slot.

- verify that the rubber grommet has been installed correctly, fully depressed in the slot.

Note: If an old engine bay harness with grommet P/N 9441111 is replaced with a new engine bay harness including the new grommet P/N 30739162, remember to clean plenum box slot from butyl tape or sealant.

*Attachment: Instruction to TJ8529 ver 2.doc has been updated ->ver 3 with instruction how *to remove one-back valve for the draining pipe plenum seal drivers side.

*Service-fix is dedicated for markets with heavy-rain and / or risk for freezing. The purpose of *removing one-back valve is to get a better draining.

*Instruction pos.13-17 shall be used for concerned markets but only when perform a repair *according to instruction pos. 1-12 to avoid a repeat-repair.

PARTS:

Sealant (310 ml), P/N 1161235 (required amount).

One cable tie P/N 983750, for fixation of wire harness.

Engine bay cable harness, check Vadis parts catalogue.

Plenum lid, P/N 9168973 LHD

Plenum lid, P/N 9168974 RHD

VSTG OPERATION NUMBER:

36001-2 - Read out / erase DTC's (first time)

36002-3 - Read out / erase DTC's (second time)

37958-2 - Sealing plenum chamber, install

37206-2 - CEM, replace

General Operation - Engine harness, replace

*ATTACHMENT TEXT BLOCKS:

*Below you will find the 17 text blocks that belong to the method given in the attachment.

*You can "copy and paste" the translated TJ text between the dotted lines into the matching *blocks in the attachment.

*Title: Seal with sealing compound

*Text block 1.

*-----

*Remove clips

*-----

*Remove the clips, one on each side

*-----

*Text block 2.

*-----

*Remove clips, continued

*-----

*Remove the clips, 4 pcs., that hold the plenum seal.

*-----

*Text block 3.

*-----

*Remove windshield wiper arms

*-----

*Remove the windshield wiper arms.

*Tip! If the wiper arm is stuck, loosen the nut slightly.

*Then squeeze the wiper arm loose with pliers (see illustration).

*As an alternative, use a puller.

*-----

*Text block 4.

*-----

*Remove plenum seal

*-----

*Remove the plenum seal by carefully pulling it forward.

*-----

*Text block 5.

*-----

*Checking clips only XC90

*-----

*Check that the clips are intact, 5 pcs. p/n: 8648206

*-----

*Text block 6.

*-----

*Remove wiper mechanism

*-----

*Remove wiper mechanism, see:

*Removing, replacing and installing

*Electrical system

*Other electrical equipment

*Cleaners

*Wiper mechanism windshield, replacing.

*-----

*Text block 7.

*-----

*Wipe off possible water around and on plenum box .

*-----

*Text block 8.

*-----

*Remove cover for plenum box

*-----

*Remove the cover on the plenum box and pull up the cable harness from the box. Place as *shown in the illustration.

*Check that there is no water on the CEM or on the inside of the plenum box.

*If there is water, it has to be wiped up.

*-----

*Text block 9.

*-----

*Checking groove for rubber lead-through

*-----

*Make sure that the groove where the rubber lead-through is to be installed is clean and dry.

*-----

*Text block 10.

*-----

*Install spout

*-----

*Cut off the spout, so that the hole becomes approx. 5 mm.

*Install the spout on the sealant tube, 1161235.

*-----

*Text block 11.

*-----

*Applying sealant

*-----

*Fill the groove with sealant using a suitable glue gun.

*-----

*Text block 12.

*-----

*Install rubber lead-through

*-----

*Make sure that the rubber lead-through is dry.

*Press down the rubber lead-through in the groove.

*Make sure that it goes all the way down and that it does not protrude above the groove.

*Fixate the cable harness with a cable tie, p/n: 983750 see illustration.

*Make sure that nothing can block the drain hole in the bottom of the plenum ditch.

*-----

*Text block 13.

*-----

*Remove the splash guard

*-----

*Remove the splash guard under the engine.

*-----

*Text block 14.

*-----

*Locate the one-way valve

*-----

*Localize the one-way valve on the drainig pipe

*(Picture shows a XC90 LHD)

*-----

*Text block 15.

*-----

*Locate the drainage tube

*-----

*Locate the drainage tube on the drivers side.

*1 = LHD

*2 = RHD

*-----

*Text block 16.

*-----

*Remove the one-way valve

*-----

*Remove the one-way valve with suitable piler.

*Attention! Remove only the one-way valve on the drivers side

*-----

*Text block 17.

*-----

*Installation

*-----

*Install:

* - Splashguard under the engine

* - Plenum box cover, make sure that the cover (clips) will lock properly all around

* - Wiper mechanism, see:

* Removing, replacing and installing

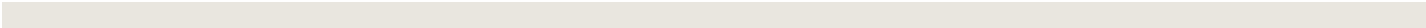
* Electrical system

* Other electrical equipment

* Cleaners

* Wiper mechanism windshield, replacing

*-----



Howell, Rosa (NHTSA)

From: tiesend@volvocars.com
Sent: Monday, September 06, 2010 7:34 AM
Subject: TJ EN-GB 8529
Attachments: Instruction to TJ 8529.doc

Title	Electrical function and communication symptom in M/Y 2005	Status	Released
Ref No	SE8529.1.0 en-GB	Status Date	2004-11-12
Issuer	AMART111 - Åke Martinsson	Issue Date	2004-10-01
Partner	4 SE PVT PVT	Reference	Q2-060322

Func Group 3729

Func Desc miscellaneous

Attachment

File Name	File Size
Instruction to TJ 8529.doc	2.1440 MB

Vehicle Type

Type	Eng	Eng Desc	Sales	Body	Gear	Steer	Model Year	Plant	Chassis Range	Struc Week Range
184							2005-9999	21	0390000-9999999	200425-999999
275							2005-9999	21	0134000-9999999	200425-999999
285							2005-9999		0459000-9999999	200425-999999
295							2005-9999	21	0173000-9999999	200425-999999
384							2005-9999	22	0425000-9999999	200425-999999

CSC

DTC

Text

DESCRIPTION: Various electrical function and communication symptoms may occur in M/Y 2005 vehicles caused by wet corrosion in the CEM connector, if water has penetrated through the plenum box by the sealing grommet.

The grommet that seals the cables to the CEM may not seal good enough, if it has been incorrectly assembled .

This may cause a number of different functionality symptoms and DTC's to be set.

Examples: - Headlight on, even if ignition key is taken out of ignition lock.

- Warning messages in DIM display.

- Warning lamps lit up.

PRODUCT MODIFICATION: An improved grommet is under development.

Introduction time scheduled to end of 2004/ beginning of 2005.

A temporary production solution has been introduced using butyl tape at the grommets slide in plenum box. Unfortunately in some cases water may still penetrate into the plenum box due to improper installation of butyl tape and/or grommet.

MATERIAL RETURN: -

TECHNICAL REPORT: Yes, please submit a TR of the root cause of the corroded CEM connector.

SERVICE: If there are signs of water penetration in plenum box and/ or wet corrosion at CEM connectors, then it is necessary to:

- locate and correct the water leakage.
- dry plenum box, rubber grommet from water .
- read out / erase DTC's.
- if missing or damaged butyl tape is found, remove old butyl tape and install new butyl tape according to instruction.
- replace CEM according to Vadis.
- replace engine bay harness to CEM, if the terminals are damaged/ corroded.
- test and verify all functions, read out DTC's.

PARTS:

Required butyl tape must be 100 mm in length and 5 mm in diameter.

Incorrect butyl tape (too thick or too long) will cause water leakage due to plenum box lid can not close correctly.

The butyl tape is not yet available from Volvo Cars Parts, but can be ordered from PVT office if sending a SR request in TIE system.

VSTG OPERATION NUMBER:

36001-2 - Read out / erase DTC's (first time)

36002-3 - Read out / erase DTC's (second time)

37958-2 - Sealing plenum chamber, install

37206-2 - CEM, replace

General Operation - Engine harness, replace