

Instructions for Converting the Transfer Case to the New Style Before Installation (96/16)

Revisions: This bulletin replaces bulletin Group 3, #96/16, dated October 20, 2016.
This revision includes additional information under "Invoicing".

Model Year: **As of 2011 up to 2017**

Vehicle Type: **Cayenne (92A)**
Cayenne S/GTS (92A)
Cayenne Turbo/Turbo S (92A)
Cayenne S Diesel (92A)

Subject: **Transfer case**

Information: **Converting transfer cases that are still in stock to the new type before installing them in customer vehicles.**

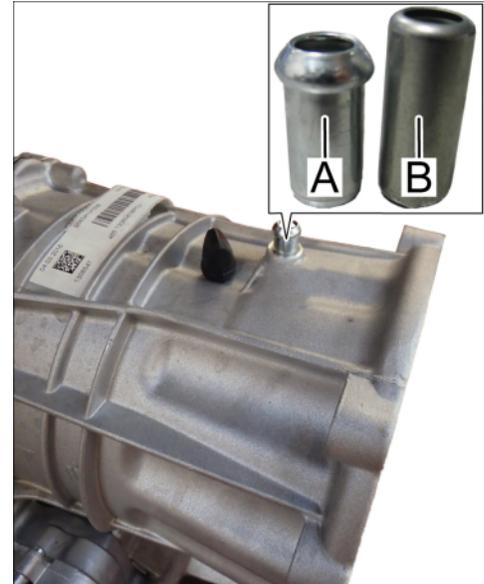
Date of Introduction: The optimized transfer case is used during production from week 31/2016.

Remedial Action: If the transfer case needs to be replaced, check the part number of the **new** transfer case.
If the transfer case is the old type, it must be converted to the new type before doing any other work.
Conversion to the new type involves:

- Fitting a new protective ring on the front output drive (sometimes also referred to as "dust boot"),
- Fitting a new vent connection (breather adapter)
- Retrofitting a vent line in the vehicle.

The type of transfer case can be identified by the part number or by the type of vent connection.

- A** – Vent connection - old type
- B** – Vent connection - new type



Vent connection

Affected	958.341.010.08	⇒ Transfer case
Transfer Case:	958.341.010.18	⇒ Transfer case
	958.341.010.27	⇒ Transfer case
	958.341.010.33	⇒ Transfer case
	958.341.012.02	⇒ Transfer case
	958.341.012.12	⇒ Transfer case
	958.341.013.01	⇒ Transfer case
	958.341.013.06	⇒ Transfer case
	958.341.010.HX	⇒ Transfer case
	958.341.011.BX	⇒ Transfer case
	958.341.011.CX	⇒ Transfer case
	958.341.011.DX	⇒ Transfer case
	958.341.012.BX	⇒ Transfer case
	958.341.012.MX	⇒ Transfer case
	958.341.013.FX	⇒ Transfer case
	958.341.013.AX	⇒ Transfer case

Parts Info: **Cayenne S Tiptronic V6 (92A) MY 2015–17**
Cayenne GTS Tiptronic V6 (92A) MY 2015–17

Part No.	Designation	Qty.
N 104.312.02	⇒ Clip	1 ea.

958.301.047.00	⇒ Vent line	1 ea.
N 107.873.01	⇒ Spacer ring	2 ea.
02H.409.275.A NEW	⇒ Vent connection	1 ea.
958.341.375.01 NEW	⇒ Protective ring	1 ea.
WHT.005.158	⇒ O-ring	1 ea.
958.349.491.10	⇒ Circlip	1 ea.

Parts Info: **Cayenne Turbo V8 (92A) MY 2015–17**
Cayenne Turbo S V8 (92A) MY 2015–17

Part No.	Designation	Qty.
N 103.284.01	⇒ Clip	1 ea.
958.301.047.10	⇒ Vent line	1 ea.
N 107.873.01	⇒ Spacer ring	1 ea.
02H.409.275.A NEW	⇒ Vent connection	1 ea.
958.341.375.01 NEW	⇒ Protective ring	1 ea.
WHT.005.158	⇒ O-ring	1 ea.
958.349.491.10	⇒ Circlip	1 ea.

Parts Info: **Cayenne Tiptronic VR6 (92A) MY 2016–17**
Cayenne Platimun Edition Tiptronic VR6 (92A) MY 2016–17

Part No.	Designation	Qty.
958.301.047.20	⇒ Vent line	1 ea.
N 107.873.01	⇒ Spacer ring	1 ea.
02H.409.275.A NEW	⇒ Vent connection	1 ea.
958.341.375.01 NEW	⇒ Protective ring	1 ea.
WHT.005.158	⇒ O-ring	1 ea.
958.349.491.10	⇒ Circlip	1 ea.

Parts Info: **Cayenne S Diesel V8 (92A) MY 2015–17**

Part No.	Designation	Qty.
N 108.377.01	⇒ Clip	1 ea.
958.301.047.30	⇒ Vent line	1 ea.
N 107.873.01	⇒ Spacer ring	1 ea.

02H.409.275.A NEW	⇒ Vent connection	1 ea.
958.341.375.01 NEW	⇒ Protective ring	1 ea.
WHT.005.158	⇒ O-ring	1 ea.
958.349.491.10	⇒ Circlip	1 ea.

Parts Info: **Cayenne S Tiptronic V8 (92A) MY 2011–14**
Cayenne GTS Tiptronic V8 (92A) MY 2011–14
Cayenne Turbo V8 (92A) MY 2011–14
Cayenne Turbo S V8 (92A) MY 2011–14

Part No.	Designation	Qty.
N 103.284.01	⇒ Clip	1 ea.
958.301.047.10	⇒ Vent line	1 ea.
N 107.873.01	⇒ Spacer ring	1 ea.
02H.409.275.A NEW	⇒ Vent connection	1 ea.
958.341.375.01 NEW	⇒ Protective ring	1 ea.
WHT.005.158	⇒ O-ring	1 ea.
958.349.491.10	⇒ Circlip	1 ea.

Parts Info: **Cayenne Tiptronic VR6 (92A) MY 2011–14**
Cayenne Platimun Edition Tiptronic VR6 (92A) MY 2011–14
Cayenne Manual Transmission VR6 (92A) MY 2011–14

Part No.	Designation	Qty.
958.301.047.20	⇒ Vent line	1 ea.
N 107.873.01	⇒ Spacer ring	1 ea.
02H.409.275.A NEW	⇒ Vent connection	1 ea.
958.341.375.01 NEW	⇒ Protective ring	1 ea.
WHT.005.158	⇒ O-ring	1 ea.
958.349.491.10	⇒ Circlip	1 ea.

Parts Info: **Cayenne S Diesel V8 (92A) MY 2015–17**

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WHT.005.158	⇒ O-ring	1 ea.
958.349.491.10	⇒ Circlip	1 ea.

Tools: **Internal puller 7–10 (commercially available, e.g. Hazet 1788T/5 internal puller set)**
Assembly tool T10399

Work Procedure: 1 **Replace vent connection on the transfer case.**

- 1.1 Pull cap off the vent connection.
- 1.2 Remove old vent connection ⇒ *Removing old vent connection -1-* using a suitable tool.

Tool recommendation: Internal puller 7–10 (commercially available)



Information

The vent connection must project 16 mm +/- 0.5 mm out of the transfer gear.

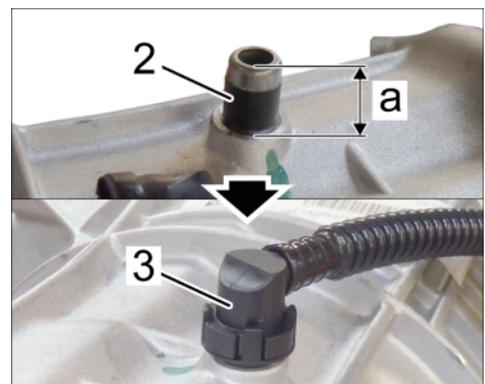
- 1.3 Carefully tap in the new vent connection ⇒ *Installing new vent connection -2-* using a rubber hammer.

Dimension ⇒ *Installing new vent connection -a-* must be 16 mm +/- 0.5 mm so that the vent line ⇒ *Installing new vent connection -3-* can be fitted correctly on the connection piece later.

- 2 **Replace protective ring on the front output shaft.**

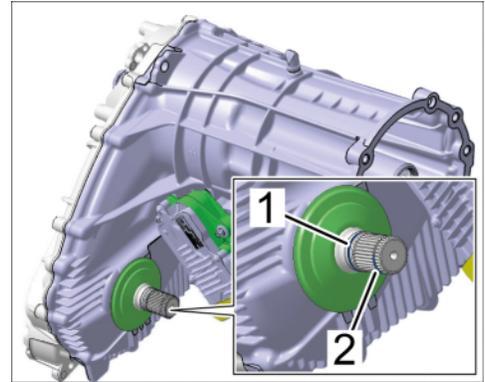


Removing old vent connection



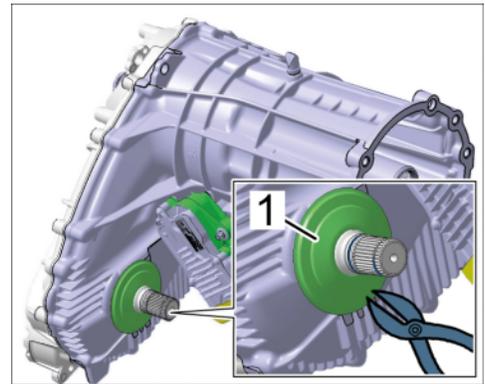
Installing new vent connection

- 2.1 Remove O-ring ⇒ *Removing O-ring and circlip -1-* and circlip ⇒ *Removing O-ring and circlip -2-*.



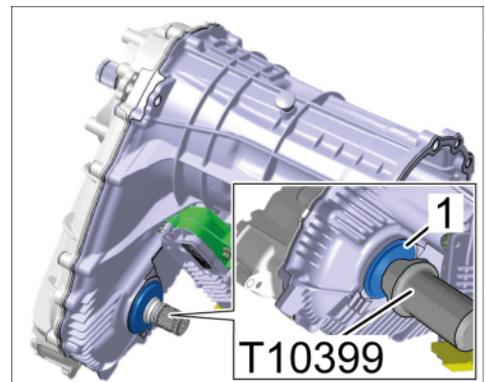
Removing O-ring and circlip

- 2.2 Carefully cut protective ring ⇒ *Cutting protective ring -1-* using panel shears and pull it off the shaft journal.



Cutting protective ring

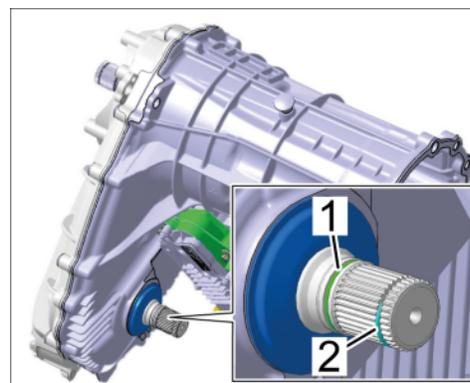
- 2.3 **Tap new** protective ring ⇒ *Installing protective ring -1-* in until it locks onto the shaft using **assembly tool T10399**.



Installing protective ring

2.4 **Install new O-ring** ⇒ *Installing O-ring and circlip -1-* and **new circlip** ⇒ *Installing O-ring and circlip -2-*.

3 **Retrofit vent line when installing the transfer case in the vehicle.** ⇒ *Workshop Manual '397019 Removing and installing transfer gear vent line'*



Installing O-ring and circlip

Invoicing

Invoicing: **Cayenne Tiptronic VR6 (92A) MY 2011–14**
Cayenne Platimun Edition Tiptronic VR6 (92A) MY 2011–14
Cayenne Manual Transmission VR6 (92A) MY 2011–14

The work involved is invoiced under the labor operation:

APOS	Labor operation	I No.
39702360	Installing vent lines	

For invoicing and documentation using PQIS, enter the following coding:

Location (FES5)	39650	Transfer case
Damage type (SA4)	6018	Technical conversion

Invoicing

Invoicing: **Cayenne S Tiptronic V8 (92A) MY 2011–14**
Cayenne GTS Tiptronic V8 (92A) MY 2011–14
Cayenne Turbo V8 (92A) MY 2011–14
Cayenne Turbo S V8 (92A) MY 2011–14

The work involved is invoiced under the labor operation:

APOS	Labor operation	I No.
39702380	Installing vent lines	

For invoicing and documentation using PQIS, enter the following coding:

Location (FES5)	39650	Transfer case
Damage type (SA4)	6018	Technical conversion

Invoicing

Invoicing: **Cayenne S Diesel V8 (92A) MY 2015–17**

The work involved is invoiced under the labor operation:

APOS		I No.
39702395	Installing vent lines	

For invoicing and documentation using PQIS, enter the following coding:

Location (FES5)	39650	Transfer case
Damage type (SA4)	6018	Technical conversion

Invoicing

Invoicing: **Cayenne Tiptronic VR6 (92A) MY 2016–17**
Cayenne Platimun Edition Tiptronic VR6 (92A) MY 2016–17

The work involved is invoiced under the labor operation:

APOS	Labor operation	I No.
39702360	Installing vent lines	

For invoicing and documentation using PQIS, enter the following coding:

Location (FES5)	39650	Transfer case
Damage type (SA4)	6018	Technical conversion

Invoicing

Invoicing: **Cayenne Turbo V8 (92A) MY 2015–17**
Cayenne Turbo S V8 (92A) MY 2015–17

The work involved is invoiced under the labor operation:

APOS	Labor operation	I No.
39702380	Installing vent lines	

For invoicing and documentation using PQIS, enter the following coding:

Location (FES5)	39650	Transfer case
Damage type (SA4)	6018	Technical conversion

Invoicing

Invoicing: **Cayenne S Tiptronic V6 (92A) MY 2015–17**
Cayenne GTS Tiptronic V6 (92A) MY 2015–17

The work involved is invoiced under the labor operation:

APOS	Labor operation	I No.
39702390	Installing vent lines	

For invoicing and documentation using PQIS, enter the following coding:

Location (FES5)	39650	Transfer case
Damage type (SA4)	6018	Technical conversion

Invoicing

Invoicing: **Cayenne S Diesel V8 (92A) MY 2015–17**

The work involved is invoiced under the labor operation:

APOS	Labor operation	I No.
39702395	Installing vent lines	

For invoicing and documentation using PQIS, enter the following coding:

Location (FES5)	39650	Transfer case
Damage type (SA4)	6018	Technical conversion

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