

Technical Information

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

Vehicle Type:	Cayenne (92A)					
	Cayenne S/GTS (92A)					
	Cayenne Turbo/Turbo S (92A)					
	Cayenne S Diesel (92A)					
Model Year:	As of 2011 up to 2017					
Subject:	Transfer case					
Concern:	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	If the transfer case needs to be replaced, check the part number of the new transfer case.					
Action:	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	\Rightarrow Transfer case
Transfer Case:	958.341.010.18	\Rightarrow Transfer case
	958.341.010.27	\Rightarrow Transfer case
	958.341.010.33	\Rightarrow Transfer case
	958.341.012.02	\Rightarrow Transfer case
	958.341.012.12	\Rightarrow Transfer case
	958.341.013.01	\Rightarrow Transfer case
	958.341.013.06	\Rightarrow Transfer case
	958.341.010.HX	\Rightarrow Transfer case
	958.341.011.BX	\Rightarrow Transfer case
	958.341.011.CX	\Rightarrow Transfer case
	958.341.011.DX	\Rightarrow Transfer case
	958.341.012.BX	\Rightarrow Transfer case
	958.341.012.MX	\Rightarrow Transfer case
	958.341.013.FX	\Rightarrow Transfer case
	958.341.013.AX	\Rightarrow Transfer case
Parts Info:	Cayenne S Tiptronic V6 Cayenne GTS Tiptronic	
	Part No.	Designation

N 104.312.02

Qty.

1 ea.

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 \Rightarrow Clip

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Technic	Cayenne (9	2			
			96/16 ENU	3965	<u> </u>
	958.301.047.00	\Rightarrow Vent line		1 ea.	
	N 107.873.01	\Rightarrow Spacer ring		2 ea.	
	02H.409.275.A NEW	\Rightarrow Vent connection		1 ea.	
	958.341.375.01 NEW	\Rightarrow Protective ring		1 ea.	
	WHT.005.158	\Rightarrow O-ring		1 ea.	
	958.349.491.10	\Rightarrow Circlip		1 ea.	
Parts Info:	Cayenne Turbo V8 (92 Cayenne Turbo S V8 (9	-			
	Part No.	Designation		Qty.	
	N 103.284.01	\Rightarrow Clip		1 ea.	
	958.301.047.10	\Rightarrow Vent line		1 ea.	
	N 107.873.01	\Rightarrow Spacer ring		1 ea.	
	02H.409.275.A NEW	\Rightarrow Vent connection		1 ea.	
	958.341.375.01 NEW	\Rightarrow Protective ring		1 ea.	
	WHT.005.158	\Rightarrow 0-ring		1 ea.	
	958.349.491.10	\Rightarrow Circlip		1 ea.	
Parts Info:	Cayenne Tiptronic VR Cayenne Platimun Edi	6 (92A) MY 2016–17 tion Tiptronic VR6 (92A) MY 2016–17			
	Part No.	Designation	C	2ty.	
	958.301.047.20	\Rightarrow Vent line	1	ea.	
	N 107.873.01	\Rightarrow Spacer ring	1	ea.	
	02H.409.275.A NEW	\Rightarrow Vent connection	1	ea.	
	958.341.375.01 NEW	\Rightarrow Protective ring	1	ea.	
	WHT.005.158	\Rightarrow O-ring	1	ea.	
	958.349.491.10	\Rightarrow Circlip	1	ea.	
Parts Info:	Cayenne S Diesel V8 (92A) MY 2015–17			
	Part No.	Designation	(Qty.	
	N 108.377.01	\Rightarrow Clip		l ea.	
	958.301.047.30	\Rightarrow Vent line	-	l ea.	
	N 107.873.01	\Rightarrow Spacer ring	-	ea.	

Cayenne (92A) 3

3965 ENU 96/16

	Part No.	Designation	Qty.		
Parts Info:	Cayenne S Diesel V8 (92A) MY 2011–14				
	958.349.491.10	\Rightarrow Circlip	1 ea.		
	WHT.005.158	\Rightarrow 0-ring	1 ea.		
	958.341.375.01 NEW	\Rightarrow Protective ring	1 ea.		
	02H.409.275.A NEW	\Rightarrow Vent connection	1 ea.		
	N 107.873.01	\Rightarrow Spacer ring	1 ea.		
	958.301.047.20	\Rightarrow Vent line	1 ea.		
	Part No.	Designation	Qty.		
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				
	958.349.491.10	\Rightarrow Circlip	1 ea.		
	WHT.005.158	\Rightarrow O-ring	1 ea.		
	958.341.375.01 NEW	\Rightarrow Protective ring	1 ea.		
	02H.409.275.A NEW	\Rightarrow Vent connection	1 ea.		
	N 107.873.01	\Rightarrow Spacer ring	1 ea.		
	958.301.047.10	\Rightarrow Vent line	1 ea.		
	N 103.284.01	\Rightarrow Clip	1 ea.		
	Part No.	Designation	Qty.		
Parts Info:	Cayenne S Tiptonic 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				
	958.349.491.10	\Rightarrow Circlip	1 ea.		
	WHT.005.158	\Rightarrow 0-ring	1 ea.		
	958.341.375.01 NEW	\Rightarrow Protective ring	1 ea.		
	02H.409.275.A NEW	\Rightarrow Vent connection	1 ea.		

	200.9.1.1.0.1	_
N 108.377.01	\Rightarrow Clip	1 ea.

Technical Information	Cayenne (9	\mathbf{c}		
		96/16 ENU	3965	3
958.301.047.30	\Rightarrow Vent line		1 ea.	
N 107.873.01	\Rightarrow Spacer ring		1 ea.	
02H.409.275.A NEW	\Rightarrow Vent connection		1 ea.	
958.341.375.01 NEW	\Rightarrow Protective ring		1 ea.	

Tools: Internal puller 7–10 (commercially available, e.g. Hazet 1788T/5 internal puller set) Assembly tool T10399 (available for purchase from Porsche Special Tools & Equipment Website. porsche.snapon.com)

 \Rightarrow 0-ring

 \Rightarrow Circlip

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

WHT.005.158

958.349.491.10

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

Tool recommendation: Internal puller 7–10 (e.g. Hazet 1788T/5 internal puller set or equivalent. Hole size for original vent is 8.2mm. Examples of locally available tools you can use would be a Kukko Puller Tool #22-0 and 6mm-10mm inside puller aka. blind hole puller Tool #21-00)



Information

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



1 ea.

1 ea.

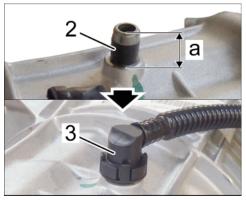
Removing old vent connection

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

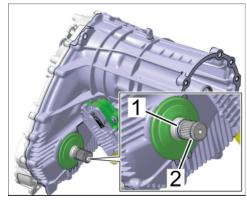
Technical Information

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

2 Replace protective ring on the front output shaft.



Installing new vent connection



Removing O-ring and circlip

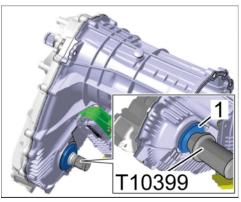
Cutting protective ring

2.1 Remove O-ring \Rightarrow Removing O-ring and circlip -1- and circlip \Rightarrow Removing O-ring and circlip -2-.

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

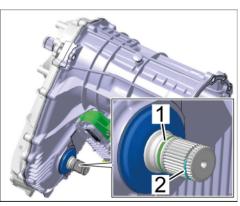
Technical Information

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



Installing protective ring

- 2.4 Install new O-ring \Rightarrow Installing O-ring and circlip -1 - and new circlip \Rightarrow 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: For invoicing and documentation using PQIS, enter the following coding:

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

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