

126/14 ENU WE87

Service

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#### WE87 - Checking Relays And Replacing Them If Necessary (Workshop Campaign)

Revision:	<b>April 10, 2015</b> This revision amends WE87 as follows: Under "Parts Info" the parts availability note was revised.							
Model Year:	2015							
Model Line:	Macan							
Concerns:	Power supply relays							
Information:	possibility that relay	a voluntary Workshop Campaign on the above s from a batch whose switching contact w re installed on the affected vehicles.						
	As a result, the switching contact in the relay can stick in normal position and the relevant electron equipment will not therefore be supplied with current. Depending on where the relay is used in the vehicle, this can cause various systems, e.g. reacheating or the levelling system, to stop working.							
Action Required:	Check the batch numb	er of the relays and replace relays if necessary	ý.					
Affected Vehicles:	The VIN(s) can be checked by using PIWIS Vehicle Information link to verify if the campaign affects the vehicle. This campaign is scope specific to the VIN! Failure to verify in PIWIS may result in an improper repair. This campaign affects 847 vehicles in North America.							
Parts Info:	THE VEHICLES THAT	HIS CAMPAIGN WILL BE AUTOMATICALLY ARE SERVICED AT YOUR DEALERSHIP. O UIRES ADDITIONAL PARTS, YOU SHOULD	NCE YOUR DEALERSHIP IS OUT					
	Part No.	Designation	Qty.					
	000.043.989.87 $\Rightarrow$ Relay, type number 645 up to 7 ea. *							
	* The number of relays required per vehicle depends on the result of the relay check carried out as part of this campaign and on the number of relays to be checked in the vehicle. This depends on the respective vehicle equipment.							
Tools:	<ul> <li>Torque wrench, 2 – 10 Nm (1.5 – 7.5 ftlb.), e.g. V.A.G 1783 - Torque wrench, 2-10 Nm (1.5-7 ftlb.)</li> <li>3438 - Hook</li> </ul>							

Assembly wedge

Work See Attachment "A". Procedure:

Claim See Attachment "B". Submission:

#### Attachment "A": Work Procedure

#### Checking batch number and installation position of the affected relays

Information: The relays with the **type number 645** from the batch number range specified below can be faulty and must be **replaced**:

From batch number:	To batch <b>number:</b>		
142361F	143061F		

The type number and batch number can be read on the relay as follows:  $\Rightarrow$  *Identification on relays* 

- 1 Relay type number 645
- **2 Batch number** of the relay
- **3** Batch number: **Year** of production
- 4 Batch number: Week of production
- 5 Batch number: **Weekday** of production
- 6 Batch number: Work shift of production
- 7 Batch number: Production line during manufacture



Identification on relays

# Technical InformationService126/14E

#### Installation

Position:



Overview of installation positions

The number of relays to be checked will vary depending on the various equipment variants of the affected vehicles and are installed at the following positions in the respective vehicle:

- Fuse box on cowl panel ⇒ Overview of installation positions -1-
- Fuse box on left of dashboard ⇒ Overview of installation positions -2-
- Fuse box in luggage compartment at the right  $\Rightarrow$  Overview of installation positions -3-

#### i Information

The installation positions of the affected relays are known for each individual vehicle. Given the various steps required for checking the relays, the respective vehicle is assigned to one fixed scope, which determines the exact checks to be carried out on the relevant vehicle.

 $\Rightarrow$  To find out which scope is assigned to the vehicle for checking the relays, see PIWIS Vehicle Information.

The table below shows the relays to be checked based on the assigned scope and their installation positions:

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Scope:	Installation positions and number of relays to be checked:
Scope 1	Fuse box on cowl panel (1 ea.)
	$\Rightarrow$ Technical Information 'WE8700 Checking batch number of relay in fuse box on the cowl panel'
• Scope 2	<ul> <li>Fuse box on cowl panel (1 ea.)</li> <li>Fuse box in luggage compartment at the right (max. 4 ea.)</li> </ul>
	<ul> <li>⇒ Technical Information 'WE8700 Checking batch number of relay in fuse box on the cowl panel'</li> <li>⇒ Technical Information 'WE8700 Checking batch number of relays in fuse box in the luggage compartment'</li> </ul>
• Scope 3	<ul> <li>Fuse box on cowl panel (1 ea.)</li> <li>Fuse box on left of dashboard (max. 2 ea.)</li> <li>Fuse box in luggage compartment at the right (max. 4 ea.)</li> </ul>
	<ul> <li>⇒ Technical Information 'WE8700 Checking batch number of relay in fuse box on the cowl panel'</li> <li>⇒ Technical Information 'WE8700 Checking batch number of relays in fuse box on the dashboard'</li> <li>⇒ Technical Information 'WE8700 Checking batch number of relays in fuse box in the luggage compartment'</li> </ul>
Scope 4	<ul> <li>Fuse box on left of dashboard (max. 2 ea.)</li> <li>Fuse box in luggage compartment at the right (max. 4 ea.)</li> </ul>
	<ul> <li>⇒ Technical Information 'WE8700 Checking batch number of relays in fuse box on the dashboard'</li> <li>⇒ Technical Information 'WE8700 Checking batch number of relays in fuse box in the luggage compartment'</li> </ul>
• Scope 5	<ul> <li>Fuse box in luggage compartment at the right (max. 4 ea.)</li> <li>⇒ Technical Information 'WE8700 Checking batch number of relays in fuse box in the luggage compartment'</li> </ul>
Scope 6	<ul> <li>Fuse box on cowl panel (1 ea.)</li> <li>Fuse box on left of dashboard (max. 2 ea.)</li> </ul>
	<ul> <li>⇒ Technical Information 'WE8700 Checking batch number of relay in fuse box on the cowl panel'</li> <li>⇒ Technical Information 'WE8700 Checking batch number of relays in fuse box on the dashboard'</li> </ul>

#### Checking batch number of relay in fuse box on the cowl panel

Procedure: 1 Disconnect ground line to the battery  $\Rightarrow$  Workshop Manual '2X00IN Work instructions after disconnecting the battery'.

- 2 Use **9873** hood stay to move front lid into service position  $\Rightarrow$  Workshop Manual '552213 Securing lid (service position)'.
- 3 Remove plenum panel cover. For instructions, see *⇒ Workshop Manual '508719 Removing and installing cowl panel cover'*.
- 4 Remove DME control unit ⇒ Workshop Manual '247019 Removing and installing DME control unit'.
- 5 Check the batch number of the **relay** with **type number 645** ⇒ Checking relays in fuse box on the cowl panel-2- in the fuse box in the engine compartment ⇒ Checking relays in fuse box on the cowl panel-1-.
  - 5.1 Check production line of the relay as indicated by the letter in the batch number  $\Rightarrow$  Checking relays in fuse box on the cowl panel-3-.
    - The letter in the batch number is not "F": The relay is not affected ⇒ Continue with Step 7.
    - The letter in the batch number is "F": The relay was manufactured on the affected production line ⇒ Continue checking the batch number. Continue with Step 5.2.



Checking relays in fuse box on the cowl panel

- 5.2 Check the production period of the relay as On the cowl panelindicated by the digits in the batch number  $\Rightarrow$  Checking relays in fuse box on the cowl panel -4-.
  - The string of digits in the batch number is less than 142361: The relay is not affected ⇒ Continue with Step 7.
  - The string of digits in the batch number is greater than 143061: The relay is not affected ⇒ Continue with Step 7.
  - The string of digits in the batch number is within the range from 142361 to 143061: The relay may be faulty and must therefore be replaced. ⇒ Continue with Step 6.

For further information on the batch number and the meaning of the digits/letters, see "Information" section under  $\Rightarrow$  *Technical Information 'WE8700 Checking batch number and installation position of the affected relays* 'in this document.

- 6 Replace the relay you determined to be faulty during the previous check.
  - 6.1 Carefully pull the relay out of the plug-in socket and remove it.

- 6.2 Press new relay as far as it will go into the plug-in socket according to the installation position of the relay you just removed.
- 7 Install DME control unit  $\Rightarrow$  Workshop Manual '247019 Removing and installing DME control unit'.
- 8 Install plenum panel cover. For instructions, see *⇒ Workshop Manual '508719 Removing and installing cowl panel cover'*.
- 9 Remove hood stay and close the front lid  $\Rightarrow$  *Workshop Manual '552213 Securing lid (service position)'*.
- 10 Connect ground line to the battery  $\Rightarrow$  Workshop Manual '2X00IN Work instructions after disconnecting the battery'.
- 11 If there are other affected relays in the fuse box on the dashboard and/or in the fuse box in the luggage compartment of the respective vehicle based on the assigned campaign scope, continue checking these relays.
   For further information, see "Installation Position" under ⇒ *Technical Information 'WE8700 Checking batch number and installation position of the affected relays* 'in this document.
- 12 If no other relays in the vehicle are affected, enter the campaign in the Warranty and Maintenance booklet. For invoicing, see section on ⇒ *Technical Information 'WE8700 Invoicing'*.

#### Checking batch number of relays in fuse box on the dashboard

- Procedure: 1 Remove dashboard trim panel at the left  $\Rightarrow$  Workshop Manual '701619 Removing and installing dashboard trim panel'.
  - 2 Remove dashboard moulding on driver's side at the right together with the air vent  $\Rightarrow$  *Workshop Manual '70581902 Removing and installing dashboard moulding on driver's side at the right'.*
  - 3 Remove trim panel under dashboard at the left  $\Rightarrow$  *Workshop Manual '70191901 Removing and installing trim panel under dashboard at the left'.*

- 4 Check the batch number of the **relays** with **type number 645** ⇒ Checking relays in fuse box on the dashboard-3- in the **front** relay carrier ⇒ Checking relays in fuse box on the dashboard-1- and in the **rear** relay carrier ⇒ Checking relays in fuse box on the dashboard-2- of the fuse box on the dashboard.
  - 4.1 Check production line of the relay as indicated by the letter in the batch number  $\Rightarrow$  Checking relays in fuse box on the dashboard -4-.
    - The letter in the batch number is **not** "F": The relay is **not affected** ⇒ Continue with Step 6.
    - The letter in the batch number is "F": The relay was manufactured on the affected production line ⇒ Continue checking the batch number. Continue with Step 4.2.



Checking relays in fuse box on the dashboard

- 4.2 Check the production period of the relay as indicated by the digits in the batch number  $\Rightarrow$  *Checking relays in fuse box on the dashboard*-5-.
  - The string of digits in the batch number is less than 142361: The relay is not affected ⇒ Continue with Step 6.
  - The string of digits in the batch number is greater than 143061: The relay is not affected ⇒ Continue with Step 6.
  - The string of digits in the batch number is within the range from 142361 to 143061: The relay may be faulty and must therefore be replaced. ⇒ Continue with Step 5.

For further information on the batch number and the meaning of the digits/letters, see "Information" section under  $\Rightarrow$  Technical Information 'WE8700 Checking batch number and installation position of the affected relays' in this document.

- 5 Replace the relay you determined to be faulty during the previous check.
  - 5.1 Carefully pull the relay out of the plug-in socket and remove it.
  - 5.2 Press new relay as far as it will go into the plug-in socket according to the installation position of the relay you just removed.
- 6 Check any **other relays with type number 645** in the fuse box on the dashboard. To do this, **repeat Steps 4.1 to 4.2** on the **other relays**.
- 7 Install trim panel under dashboard at the left  $\Rightarrow$  Workshop Manual '70191901 Removing and installing trim panel under dashboard at the left'.

- 8 Install dashboard moulding on driver's side at the right together with the air vent  $\Rightarrow$  *Workshop Manual '70581902 Removing and installing dashboard moulding on driver's side at the right'.*
- 9 Install dashboard trim panel at the left  $\Rightarrow$  Workshop Manual '701619 Removing and installing dashboard trim panel'.
- 10 If there are other affected relays in the fuse box in the luggage compartment of the respective vehicle based on the assigned campaign scope, continue checking these relays.
   For further information, see "Installation Position" under ⇒ *Technical Information 'WE8700 Checking batch number and installation position of the affected relays'* in this document.
- 11 If no other relays in the vehicle are affected, enter the campaign in the Warranty and Maintenance booklet. For invoicing, see section on ⇒ *Technical Information 'WE8700 Invoicing'*.

#### Checking batch number of relays in fuse box in the luggage compartment

- Procedure: 1 Open the rear lid.
  - 2 Open and remove maintenance flap in the luggage compartment side trim panel at the right.
  - 3 Check the batch number of the **relays** with **type number 645** ⇒ *Checking relays in fuse box in the luggage compartment* -**2**- in the fuse box in the luggage compartment ⇒ *Checking relays in fuse box in the luggage compartment* -**1**-.
    - 3.1 Check production line of the relay as indicated by the letter in the batch number ⇒ Checking relays in fuse box in the luggage compartment-3-.
      - The letter in the batch number is not
         "F": The relay is not affected ⇒
         Continue with Step 5.
      - The letter in the batch number is "F": The relay was manufactured on the affected production line ⇒ Continue checking the batch number. Continue with Step 3.2.



Checking relays in fuse box in the luggage compartment

- 3.2 Check the production period of the relay as indicated by the digits in the batch number  $\Rightarrow$  *Checking relays in fuse box in the luggage compartment*-4-.
  - The string of digits in the batch number is less than 142361: The relay is not affected ⇒ Continue with Step 5.

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- The string of digits in the batch number is greater than 143061: The relay is not affected ⇒ Continue with Step 5.
- The string of digits in the batch number is within the range from 142361 to 143061: The relay may be faulty and must therefore be replaced. ⇒ Continue with Step 4.

For further information on the batch number and the meaning of the digits/letters, see "Information" section under  $\Rightarrow$  *Technical Information 'WE8700 Checking batch number and installation position of the affected relays* 'in this document.

- 4 Replace the relay you determined to be faulty during the previous check.
  - 4.1 Carefully pull the relay out of the plug-in socket and remove it.
  - 4.2 Press new relay as far as it will go into the plug-in socket according to the installation position of the relay you just removed.
- 5 Check any **other relays with type number 645** in the fuse box in the luggage compartment. To do this, **repeat Steps 3.1 to 3.2** on the **other relays**.
- 6 Position and close the maintenance flap in the luggage compartment side trim panel at the right.
- 7 Close the rear lid.
- 8 Enter the workshop campaign in the Warranty and Maintenance booklet.

#### Attachment "B": Claim Submission - Workshop Campaign WE87

Warranty claims should be submitted via WWS/PQIS.

Open campaigns may be checked by using either the PIWIS Vehicle Information system or through PQIS Job Creation.

Labor, parts, and sublet will be automatically inserted when Technician is selected in WWS/PQIS. If necessary, the required part numbers will need to be manually entered into warranty system by the dealer administrator.

#### Scope: Scope 1 – Checking batch number of relay and replacing relay if necessary.

Relays in fuse box on the cowl panel

# Working time: Checking batch number of the relays and replacing relays if necessary Labor time: 54 TU Includes: Disconnecting and connecting battery Moving front lid into service position Removing and installing plenum panel cover Removing and installing DME control unit Parts required:

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<u> </u>	WE87	ENU	14		
		000.043.	989.87	Relay, type number 645	max. 1 ea. (depending on actual number required *)
				ays required depends on the result of the re number of relays to be replaced as determi	5
		⇒ Dama	ge code V	VE87 066 000 2	
Scope:		Scope 2 -	Checking	y batch number of relays and replacing	relays if necessary
ocope.		Relays	s in fuse bo	ix on the cowl panel ix in luggage compartment at the right	relays in neocosci y.
		Working	time:		
		Checking Includes:	Discor Moving Remov Remov Openir	ber of the relays and replacing relays if nec necting and connecting battery g front lid into service position ving and installing plenum panel cover ving and installing DME control unit ng and closing maintenance flap in luggage artment side trim panel at the right	
		Parts req	uired:		
		000.043.	989.87	Relay, type number 645	max. 5 ea. (depending on actual number required *)
				ays required depends on the result of the re number of relays to be replaced as determi	
		⇒ Dama	ge code V	VE87 066 000 2	
Scope:		Scope 3 –	Checking	y batch number of relays and replacing	relays if necessary.
-		Relays	s in fuse bo	x on the cowl panel x on left of dashboard	

• Relays in fuse box in luggage compartment at the right

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Checking ba	atch numb	per of the relays and replacing relays if r	lecessaly	Labor time: 139 T				
Includes:	Disconnecting and connecting battery Moving front lid into service position Removing and installing plenum panel cover Removing and installing DME control unit Removing and installing dashboard trim panel at the left Removing and installing dashboard moulding on driver's side at the right Removing and installing trim panel under dashboard at the left							
		g and closing maintenance flap in lugga	ige					
	-	rtment side trim panel at the right						
Parts requ	ired <sup>.</sup>							
000.043.98		Relay, type number 645	max. 7 ea					
			(donondin	a on actual number				
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	5	ys required depends on the result of the number of relays to be replaced as dete	required *	) d out as part of this				
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campaign. ( invoiced. ⇒ Damage Scope 4 – C Relays ir Relays ir Working tir	Only the n e code W hecking h fuse box n fuse box me: atch numk Removi	E87 066 000 2 batch number of relays and replaced on left of dashboard in luggage compartment at the right ber of the relays and replacing relays if r	required *	) d out as part of this elay check must be ssary.				
campaign. ( invoiced. ⇒ Damage Scope 4 – C Relays ir Relays ir Working tir Checking ba	Conly the n	E87 066 000 2 batch number of relays and replaced on left of dashboard in luggage compartment at the right ber of the relays and replacing relays if r ing and installing dashboard trim panel ing and installing dashboard moulding of	required *	) d out as part of this elay check must be ssary.				
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Scope:

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9	WE87	ENU	14						
		000.043	3.989.87	Relay, type number 645	max. 6 ea. (depending on actual number required *)				
			n. Only the r	ys required depends on the result of the relation of the relation of relays to be replaced as determined as determin	-				
		⇒Dama	age code W	/E87 066 000 2					
Scope:		<ul> <li>Scope 5 – Checking batch number of relays and replacing relays if necessary.</li> <li>Relays in fuse box in luggage compartment at the right</li> </ul>							
		Working	g time:						
		Checking Includes	: Openir	ber of the relays and replacing relays if nece ng and closing maintenance flap in luggage artment side trim panel at the right	ssary Labor time: <b>20 TU</b>				
		Parts re	equired:						
		000.043	3.989.87	Relay, type number 645	max. 4 ea. (depending on actual number required *)				
			n. Only the r	ys required depends on the result of the relation of the relation of relays to be replaced as determined as determin					
		⇒Dama	age code W	/E87 066 000 2					
Scope:		Scope 6	– Checking	batch number of relays and replacing r	elays if necessary.				

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- Relays in fuse box on the cowl panel Relays in fuse box on left of dashboard •

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Checking b	atch numb	per of the relays and replacing relays i	if necessary Labor time: <b>125</b>						
Includes:	Disconnecting and connecting battery								
	Moving front lid into service position								
	Removing and installing plenum panel cover								
		Removing and installing DME control unit							
		Removing and installing dashboard trim panel at the left							
		Removing and installing dashboard moulding on driver's side at the right							
		side at the right Removing and installing trim panel under dashboard at the							
	left								
Parts requ	ired:								
000.043.9	89.87	Relay, type number 645	max. 3 ea.						
			(depending on actual number						
	required *)								
* The numb	er of relay	required depends on the result of the	he relay check carried out as part of this						
campaign. invoiced.	Only the n	umber of relays to be replaced as de	termined during the relay check must be						
	o codo W	E87 066 000 2							
$\rightarrow$ Damay		L07 000 000 Z							

- $\Rightarrow$  Workshop Manual '247019 Removing and installing DME control unit'
- $\Rightarrow$  Workshop Manual '508719 Removing and installing cowl panel cover'
- $\Rightarrow$  Workshop Manual '552213 Securing lid (service position)'
- $\Rightarrow$  Workshop Manual '701619 Removing and installing dashboard trim panel'
- ⇒ Workshop Manual '70191901 Removing and installing trim panel under dashboard at the left'

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References:

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 $\Rightarrow$  Workshop Manual '70581902 Removing and installing dashboard moulding on driver's side at the right'

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Dealership	Service Manager	 Shop Foreman	 Service Technician	 	 
Distribution Routing	Asst. Manager	 Warranty Admin.	 Service Technician	 	 

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