Начало формы

Конец формы

|  |  |
| --- | --- |
| C:\POSES\data\css\achtung.gif | WARNUNG |
| **Gefahr des Verlusts der Text-Bild-Zuordnung beim Ausdruck.**   * **Aus technischen Gründen kann derzeit nicht ausgeschlossen werden, dass trotz einwandfreier Darstellung auf dem Bildschirm beim Ausdruck der Zusammenhang von Text und zugehörigem Bild verloren geht.** * **Wird der Fehler nicht bemerkt, besteht die Gefahr, daß Arbeiten nicht korrekt durchgeführt werden und es dadurch zu Personen- und Sachschäden kommt.**   → Vergleichen Sie deshalb nach dem Druckvorgang unbedingt die Ausdrucke mit der Bildschirmdarstellung. Korrigieren Sie die Ausdrucke im Fehlerfall so, daß der Inhalt der Bildschirmdarstellung zutreffend wiedergegeben wird. | |
| C:\POSES\data\css\achtung.gif | WARNING |
| **Danger of losing text-figure correspondence when printing out.**   * **For technical reasons, it can currently not be ruled out that the correspondence between text and associated figure can be lost when it is printed out, even though the display on the screen is correct.** * **If the fault is not noticed, there is the danger that work will not be performed correctly which can cause injury and damage.**   → Therefore, always compare printouts with the screen display after printing them out. Correct the printouts if they are faulty so that the content of the screen display matches that on the printouts. | |
| C:\POSES\data\css\achtung.gif | AVERTISSEMENT |
| **Risque de perte de la correspondance texte-illustration lors de l'impression papier.**   * **Pour des raisons techniques, il ne peut pas être exclu à l'heure actuelle que, même en cas d'affichage correct à l'écran, la correspondance entre le texte et l'illustration puisse être erronée sur l'impression papier.** * **Si l'erreur passe inaperçue, on court le risque d'exécuter certaines opérations de manière incorrecte pouvant conduire à des dommages corporels et matériels.**   → Comparez impérativement pour cette raison les impressions papier avec l'affichage à l'écran. Corrigez-les en cas d'erreur de manière à reproduire correctement l'affichage à l'écran. | |
| C:\POSES\data\css\achtung.gif | ATTENZIONE |
| **Pericolo di perdita dell'abbinamento testo-immagine nella stampa.**   * **Per motivi tecnici non è escluso che, nonostante la rappresentazione sullo schermo risulti perfetta, durante la stampa venga persa la corrispondenza fra testo e relativa immagine.** * **Se tale difetto non viene rilevato vi è il pericolo che i lavori non siano eseguiti correttamente; ciò può avere come conseguenza lesioni e danneggiamenti.**   → Per questo motivo, dopo la stampa è assolutamente necessario confrontare le stampe con la rappresentazione sullo schermo. In caso di errore si prega di correggere le stampe, così da garantire la riproduzione esatta della rappresentazione sullo schermo. | |
| C:\POSES\data\css\achtung.gif | ADVERTENCIA |
| **Al imprimir se corre el riesgo de perder la correcta asignación de las figuras al texto.**   * **Por motivos técnicos, por el momento no se puede descartar que, aun siendo correcta la imagen que aparezca en la pantalla, al imprimir se pierda la correlación entre el texto y la figura correspondiente.** * **Si este error pasara desapercibido, existe el riesgo de que los trabajos no se ejecuten de forma correcta y, por tanto, se produzcan daños personales y materiales.**   → Por ello le rogamos que tras el proceso de impresión compare siempre las copias impresas con la imagen de la pantalla. En caso de error, corrija las copias impresas de forma que se correspondan con el contenido de la imagen de la pantalla. | |

**87 20 19 Removing and installing servo motor - as of MY 2003**

- [Preliminary work](file:///C:\POSES\data\rl\2\9PA\872019_0.htm#PIWIS380d68203b111004880da313292e4c67)

- [Removing servo motor](file:///C:\POSES\data\rl\2\9PA\872019_0.htm#g8720191_1)

- [Installing servo motor](file:///C:\POSES\data\rl\2\9PA\872019_0.htm#g8720191_2)

- [Subsequent work](file:///C:\POSES\data\rl\2\9PA\872019_0.htm#PIWIS5f1350f03b121004881ca313292e4c67)

[top of page](file:///C:\POSES\data\rl\2\9PA\872019_0.htm#DMS1226227)

**Preliminary work**

**Preliminary work**

|  |  |
| --- | --- |
| 1. | Remove trim under dashboard on left. [→ 701919 Removing and installing trim under dashboard - "Removing" section](file:///C:\POSES\data\rl\2\9PA\701919_0.htm) |

|  |  |
| --- | --- |
| 2. | Remove KESSY/immobiliser control unit. [→ 966619 Removing and installing KESSY/immobiliser control unit - "Removing" section](file:///C:\POSES\data\rl\2\9PA\966619_0.htm) |

|  |  |
| --- | --- |
| 3. | Remove vehicle electrical system control unit. [→ 971019 Removing and installing vehicle electrical system control unit - chapter on "Removing"  [9PAAD1 9PAAD7 9PAAE1 9PAAE7 9PAAF1]](file:///C:\POSES\data\rl\2\9PA\971019_0.htm)*→ 971019 21 Removing and installing vehicle electrical system control unit - chapter on "Removing"  [9PAAJ1]* |

|  |  |
| --- | --- |
| 4. | Remove relay carrier. Remove relay carrier holder. *→ 9790  Relay carrier* |

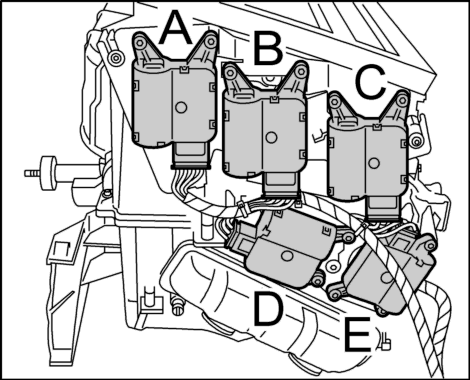
[top of page](file:///C:\POSES\data\rl\2\9PA\872019_0.htm#DMS1226227)

**Removing servo motor**

**Removing servomotor**

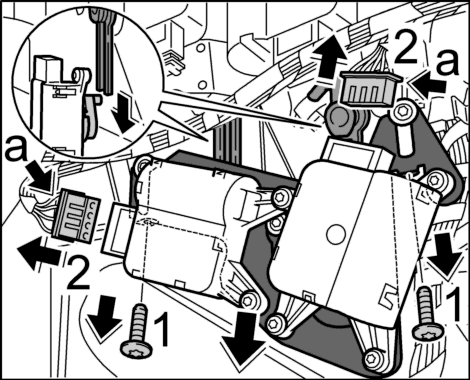
|  |  |
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| C:\POSES\data\css\hinweis.gif | **Note** |

* *The air conditioner servo motor* [***-B-***](file:///C:\POSES\data\rl\2\9PA\872019_0.htm#PIWIS84c6d3403b1110048817a313292e4c67) *- outer unit aimed at persons on left - is located on the left air conditioning unit.*
* *The air conditioner servo motor* [***-C-***](file:///C:\POSES\data\rl\2\9PA\872019_0.htm#PIWIS84c6d3403b1110048817a313292e4c67) *- centre unit aimed at persons on left - is located on the left air conditioning unit.*
* *The individual servo motors* [***-B und C-***](file:///C:\POSES\data\rl\2\9PA\872019_0.htm#PIWIS84c6d3403b1110048817a313292e4c67) *are not installed on both sides of the air conditioning unit in vehicles with a manual air conditioner. These are replaced by just one air conditioner servo motor, which is installed on the left side of the air conditioning unit at the servo motor position* [***-B-***](file:///C:\POSES\data\rl\2\9PA\872019_0.htm#PIWIS84c6d3403b1110048817a313292e4c67) *.*



*Servo motors*

* *Switch ignition off and remove ignition key before starting work.*

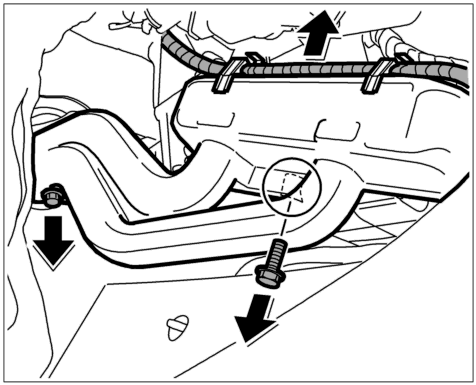


*Loosening retainer plate, unplugging connector and removing retainer plate*

|  |  |
| --- | --- |
| 1. | Unscrew the fastening screws [**-arrows 1-**](file:///C:\POSES\data\rl\2\9PA\872019_0.htm#PIWISd15d03803ad710048b69a7b5b105c9673) of the retainer plate with motors [**-D and E-**](file:///C:\POSES\data\rl\2\9PA\872019_0.htm#PIWIS84c6d3403b1110048817a313292e4c67) . |

|  |  |
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| 2. | Press electrical connectors [**-Arrows 2-**](file:///C:\POSES\data\rl\2\9PA\872019_0.htm#PIWISd15d03803ad710048b69a7b5b105c9673) [**-Arrows a-**](file:///C:\POSES\data\rl\2\9PA\872019_0.htm#PIWISd15d03803ad710048b69a7b5b105c9673) and unplug the connectors. |

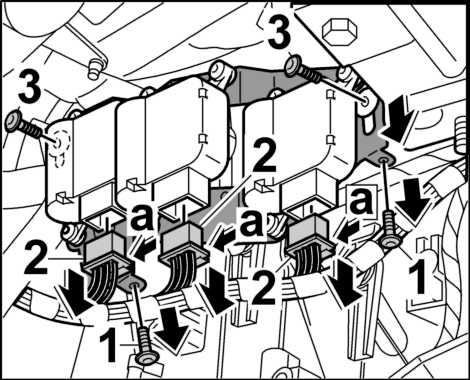
|  |  |
| --- | --- |
| 3. | Pull out the retainer plate with the motors [**-D and E-**](file:///C:\POSES\data\rl\2\9PA\872019_0.htm#PIWIS84c6d3403b1110048817a313292e4c67) downwards from the guide. |



*Unclipping wire harness and removing cover*

|  |  |
| --- | --- |
| 4. | Unclip wiring harness on the left heat exchanger cover. |

|  |  |
| --- | --- |
| 5. | Unscrew both fastening screws on the left heat exchanger cover and unclip the cover. |

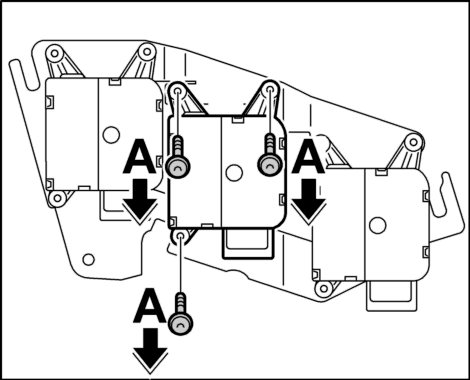


*Loosening top retainer plate and unplugging connectors*

|  |  |
| --- | --- |
| 6. | Unscrew both fastening screws [**-Arrows 1-**](file:///C:\POSES\data\rl\2\9PA\872019_0.htm#PIWISd15d03803ad710048b69a7b5b105c9675) of the top retainer plate with the servo motors [**-A, B and C-**](file:///C:\POSES\data\rl\2\9PA\872019_0.htm#PIWIS84c6d3403b1110048817a313292e4c67) . |

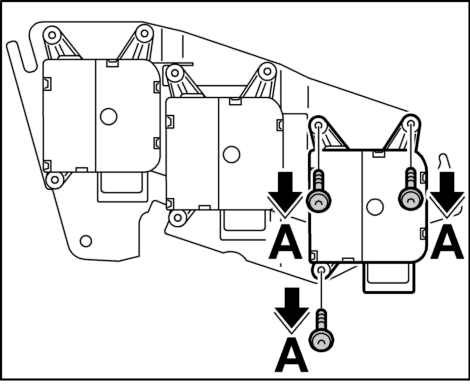
|  |  |
| --- | --- |
| 7. | Press in plug [**-2-**](file:///C:\POSES\data\rl\2\9PA\872019_0.htm#PIWISd15d03803ad710048b69a7b5b105c9675) [**-a-**](file:///C:\POSES\data\rl\2\9PA\872019_0.htm#PIWISd15d03803ad710048b69a7b5b105c9675) and pull apart plug connection. |

|  |  |
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| 8. | Pull out retainer plate downwards. If necessary, loosen the guide screws [**-3-**](file:///C:\POSES\data\rl\2\9PA\872019_0.htm#PIWISd15d03803ad710048b69a7b5b105c9675) of the retainer plate. |



*Air conditioning servo motor - outer unit aimed at persons on left*

|  |  |
| --- | --- |
| 9. | Unscrew fastening screws [**-Arrows A-**](file:///C:\POSES\data\rl\2\9PA\872019_0.htm#PIWISfab5c6103b1110048819a313292e4c67) and remove servo motor. |



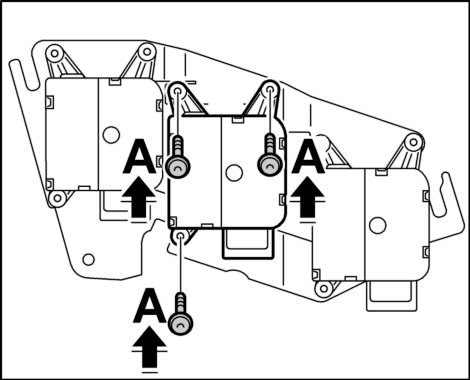
*Air conditioning servo motor - centre unit aimed at persons on left*

|  |  |
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| 10. | Unscrew fastening screws [**-Arrows A-**](file:///C:\POSES\data\rl\2\9PA\872019_0.htm#PIWISfa3ddad83b1110048818a313292e4c67) and remove servo motor. |

[top of page](file:///C:\\POSES\\data\\rl\\2\\9PA\\872019_0.htm" \l "DMS1226227)

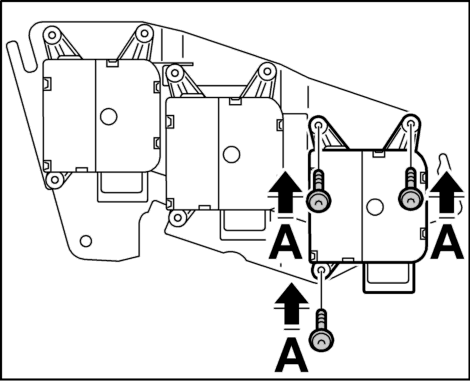
**Installing servo motor**

**Installing servomotor**



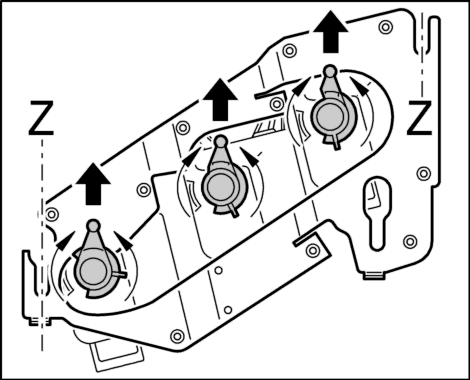
*Air conditioning servo motor - outer unit aimed at persons on left*

|  |  |
| --- | --- |
| 1. | Place the servo motor on the retainer plate and screw down using the fastening screws [**-Arrows A-**](file:///C:\POSES\data\rl\2\9PA\872019_0.htm#PIWIS0a6736e83b121004881ba313292e4c67) . **→ Tightening torque: 1.0 ftlb.** |



*Air conditioning servo motor - centre unit aimed at persons on left*

|  |  |
| --- | --- |
| 2. | Place the servo motor on the retainer plate and screw down using the fastening screws [**-Arrows A-**](file:///C:\POSES\data\rl\2\9PA\872019_0.htm#PIWIS09d2edf83b121004881aa313292e4c67) . **→ Tightening torque: 1.0 ftlb.** |



*Servo motors in service position*

|  |  |
| --- | --- |
| 3. | Move the servo motors with the Porsche System Tester to the service position. The drives must be parallel to the guides [**-Z-**](file:///C:\POSES\data\rl\2\9PA\872019_0.htm#PIWIS278153483ad710048c06ed8561b5c66710) . |

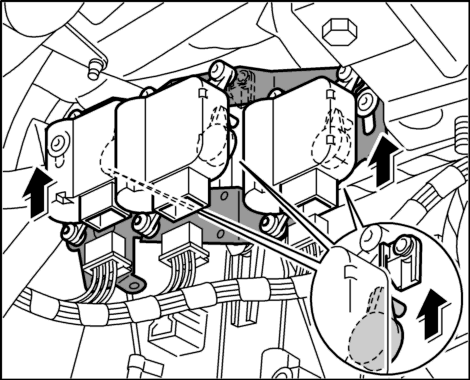
|  |  |
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| C:\POSES\data\css\hinweis.gif | **Note** |

* *Switch on ignition and carry out the service position menu, Drive links menu with the Porsche System Tester in the Climatronic.*
* *As an alternative, the servo motors can also be powered with 12 volts until they have reached the correct position. Always use the circuit diagram for this.*

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| --- | --- |
| 4. | Connect the electrical plug connections to the servo motors. |

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| 5. | Switch off ignition and remove ignition key. |

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| 6. | Press in plug again and pull apart plug connection. |

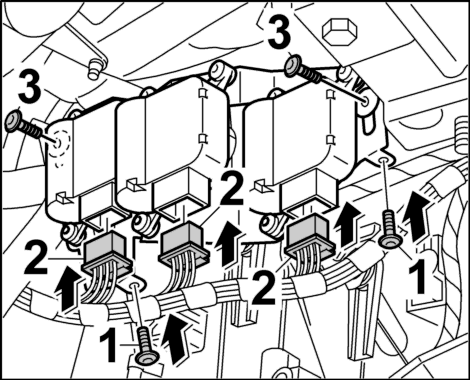


*Pushing in retainer plate*

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| C:\POSES\data\css\hinweis.gif | **Note** |

* *Make sure that the drivers of the servo motors are pushed into the mountings.*

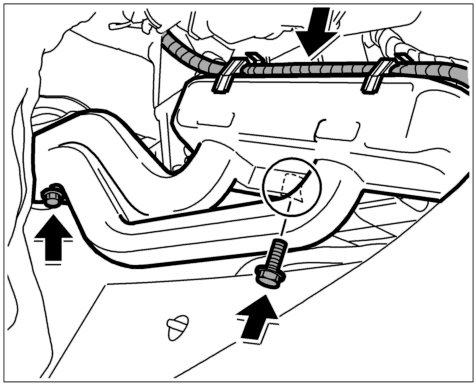
|  |  |
| --- | --- |
| 7. | Insert retainer plate with the three servo motors from below into the guides on the air conditioning unit as far as it will go. |



*Push on the electric plug connection and screw down the retainer plate*

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| --- | --- |
| 8. | Push on electric plug connection [**-Arrows 2-**](file:///C:\POSES\data\rl\2\9PA\872019_0.htm#PIWIS278153483ad710048c06ed8561b5c66712) until connectors are felt to engage. |

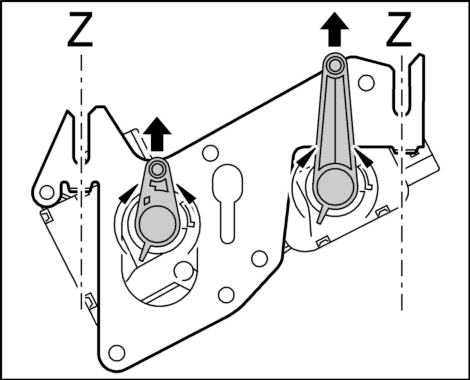
|  |  |
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| 9. | Screw in both fastening screws [**-1-**](file:///C:\POSES\data\rl\2\9PA\872019_0.htm#PIWIS278153483ad710048c06ed8561b5c66712) . **→ Tightening torque: 1.0 ftlb.** If necessary, screw down the guide screws [**-3-**](file:///C:\POSES\data\rl\2\9PA\872019_0.htm#PIWIS278153483ad710048c06ed8561b5c66712) of the retainer plate. **→ Tightening torque: 1.0 ftlb.** |



*Installing the cover and clipping in the wire harness*

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| 10. | Clip left cover into place and secure with the fastening screws. **→ Tightening torque: 1.0 ftlb.** |

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| 11. | Clip in wiring harness on the left heat exchanger cover. |



*Servo motors in service position (2)*

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| 12. | Move the servo motors with the Porsche System Tester to the service position. The drives must be parallel to the guides [**-Z-**](file:///C:\POSES\data\rl\2\9PA\872019_0.htm#PIWIS278153483ad710048c06ed8561b5c66714) . |

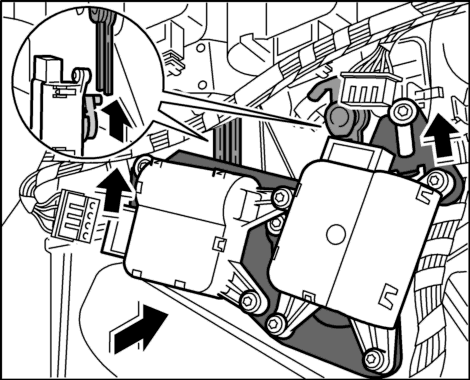
|  |  |
| --- | --- |
| 13. | Push the electric plug connections onto the servo motors. |

|  |  |
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| C:\POSES\data\css\hinweis.gif | **Note** |

* *Switch on ignition and carry out the service position menu, Drive links menu with the Porsche System Tester in the Climatronic.*
* *As an alternative, the servo motors can also be powered with 12 volts until they have reached the correct position. Always use the circuit diagram for this.*

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| 14. | Switch off ignition and remove ignition key. |

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| 15. | Press in plug again and pull apart plug connection. |

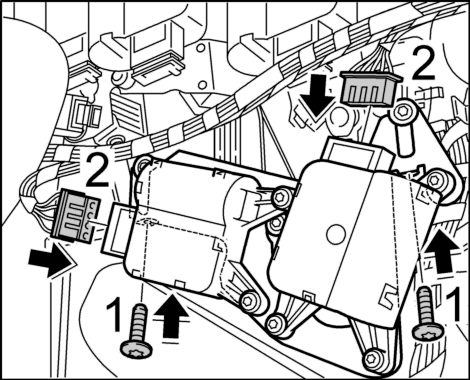


*Pushing in the retainer plate with two servo motors*

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| C:\POSES\data\css\hinweis.gif | **Note** |

* *Make sure that the drivers of the servo motors are pushed into the mountings.*

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| 16. | Insert retainer plate with the two servo motors from below into the guides on the air conditioning unit as far as it will go. |



*Pushing on plug connection and screwing in fastening screws*

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| 17. | Connect the electrical plug, pressing on until it audibly clicks into place [**-Arrows 2-**](file:///C:\POSES\data\rl\2\9PA\872019_0.htm#PIWIS278153483ad710048c06ed8561b5c66716) . |

|  |  |
| --- | --- |
| 18. | Screw in both fastening screws [**-Arrows 1-**](file:///C:\POSES\data\rl\2\9PA\872019_0.htm#PIWIS278153483ad710048c06ed8561b5c66716) . **→ Tightening torque: 1.0 ftlb.** |

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**Subsequent work**

**Subsequent work**

|  |  |
| --- | --- |
| 1. | Install relay carrier. Install relay carrier holder. *→ 9790  Relay carrier* |

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| 2. | Install vehicle electrical system control unit. [→ 971019 Removing and installing vehicle electrical system control unit - "Installing" section  [9PAAD1 9PAAD7 9PAAE1 9PAAE7 9PAAF1]](file:///C:\\POSES\\data\\rl\\2\\9PA\\971019_0.htm" \o "971019 23)*→ 971019 23 Removing and installing vehicle electrical system control unit - "Installing" section  [9PAAJ1]* |

|  |  |
| --- | --- |
| 3. | Install KESSY/immobiliser control unit. [→ 966619 Removing and installing KESSY/immobiliser control unit - "Installing" section](file:///C:\\POSES\\data\\rl\\2\\9PA\\966619_0.htm" \o "966619 23). |

|  |  |
| --- | --- |
| 4. | Install trim under left dashboard. [→ 701919 Removing and installing trim under dashboard - "Installing" section](file:///C:\\POSES\\data\\rl\\2\\9PA\\701919_0.htm" \o "701919 23) |

9PAAD1, 9PAAD7, 9PAAE1, 9PAAE7, 9PAAF1, 9PAAJ1

as of MY 2003  
Country C00, C02, C05, C07, C08, C09, C10, C11, C12, C13, C14, C15, C16, C18, C19, C20, C21, C22, C23, C24, C25, C26, C27, C28, C32, C33, C34, C35, C36, C37, C38, C39, C45, C46, C98, C99