

Volkswagen Passat B6 2005 - > (B6)

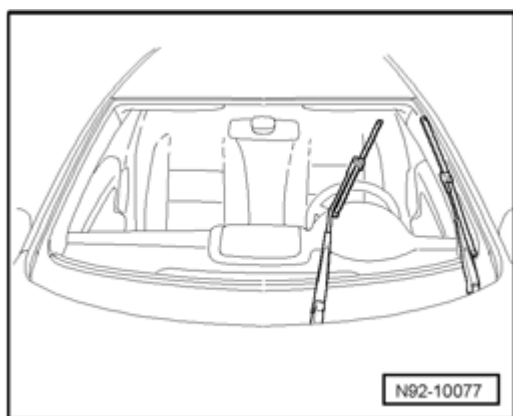
Windshield Wiper System

General information

Caution!

When disconnecting and reconnecting battery terminals, observe all applicable Notes and torque specifications, as well as instructions on performing OBD program and electrical system function checks as specified in this Repair Manual ⇒ [27-4, Battery, disconnecting and reconnecting](#) .

Wiper Motor Control Module J400 is integrated with Windshield Wiper Motor V .



To remove wiper blades, wiper arms must be driven into "service/winter position" . The "service/winter position" is activated by operating windshield wiper lever in "touch sweep" position within 10 seconds after switching off ignition ⇒ *Owners Manual* .

Note:

- *Additional information:*

⇒ *Owners Manual*

⇒ *Self Study Program - Course Number 891503 "The 2006 Passat Introduction"*

⇒ *Self Study Program - Course Number 871503 "The 2006 Passat Electrical Systems Design and Function"*

⇒ *Electrical Wiring Diagrams, Troubleshooting and Component Locations binder*

CAN-Bus wire repairs ⇒ [97-8, Repairing CAN-Bus wires](#)

On Board Diagnostic (OBD), function

The Wiper Motor Control Module J400 is equipped with On Board Diagnostic (OBD) capabilities to assist in troubleshooting.

For troubleshooting, use Vehicle Diagnostic, Testing and Information System VAS 5051/5052 in operating mode "Guided Fault Finding" .

Windshield Wiper - Alternating Park Position (APP) function, deactivating

Windshield wiper system is equipped with Alternating Park Position (APP) function).

Every other time the wipers are wipped off, the APP function causes the wiper arms to move upward slightly from the lowest position, causing the wiper blade rubbers to "flip" or tilt in a manner that "alternates" from the previous switch-off event.

APP function serves to increase wiper blade service life by alternating the wiper rubber contact angle at the windshield after use.

In order to install the crank on the wiper motor in the proper position, it is necessary to shut off the motor in the lowest park position. This is done by deactivating the APP function.

Note:

- *Activating APP function is not possible.*

- *APP function is automatically activated after 100 wiping cycles. This applies to wiper motors in which the APP function was deactivated as well as for new wiper motors.*

- Connect Vehicle Diagnosis, Testing and Information System VAS 5051/5052 ⇒ [97-1, VAS 5051 / 5052](#)

- Select operating mode "Guided Fault Finding"

- Enter information as prompted and press ">" to confirm.

After the DTC memory of all control modules has been checked:

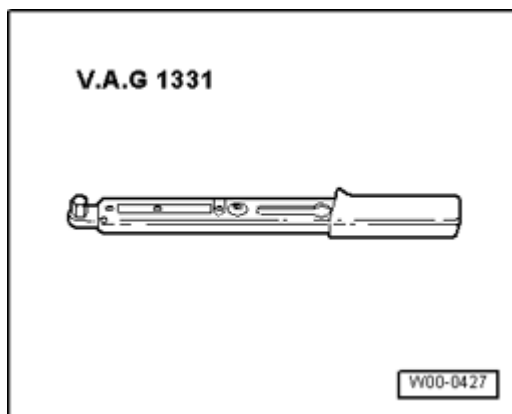
- Use "Go to" button to select "Function / Component Selection"

- Select "Body (Repair Group 01; 27; 50-97)"

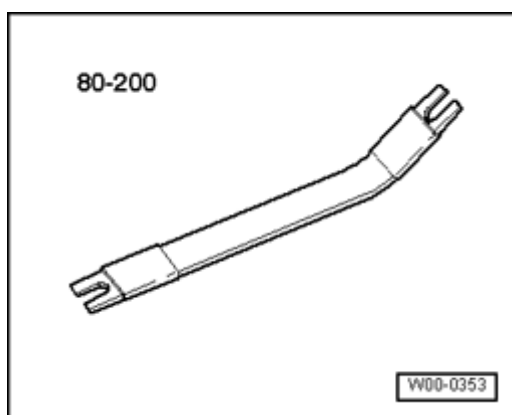
- Select "Electrical system int/ext (Repair Group 01; 27; 90-97)"
- Select "01 - Self-diagnosis"
- Select "Vehicle Electrical System Control Module"
- Select "Vehicle Electrical System Control Module functions"
- Select "Coding control module for wiper electronics/deactivating APP"
- Press ">" to confirm.
- Follow tester prompts

Windshield wiper assembly, removing and installing

Special tools, testers and auxiliary items required



- Torque wrench VAG 1331 (or 5 - 50 Nm equivalent)



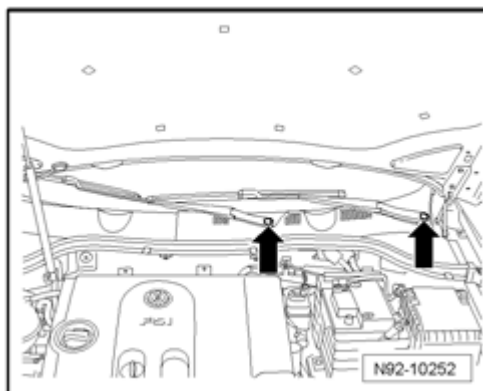
- Pry lever 80-200

Windshield wiper assembly, removing

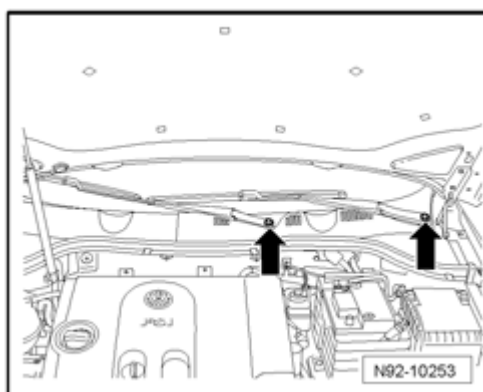
- Deactivate APP function ⇒ [92-1, Windshield Wiper - Alternating Park Position \(APP\) function, deactivating](#) .
- Operate wipers briefly and allow to move to park position. Switch off ignition.
- Disconnect battery ⇒ [27-4, Battery, disconnecting and reconnecting](#) .

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Wiper arms, removing

- Pry off covers - **arrows** - using an appropriate screwdriver.



- Loosen nuts - **arrows** - , do not remove.
- Lift wiper arm and loosen by gently rocking back and forth on shaft until felt to release.
- Remove nut and wiper arm.

- Repeat procedure for passengers side if necessary.

Plenum chamber cover, removing

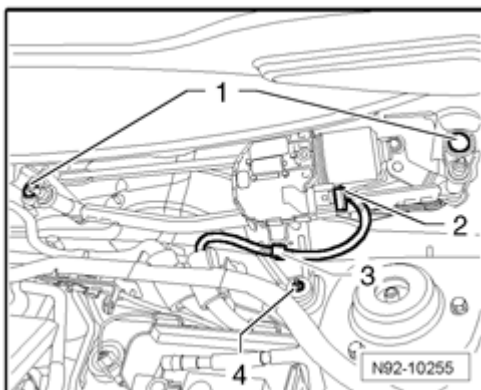
Remove left and right plenum chamber cover(s) as applicable

⇒ [Repair Manual, Body Exterior, Repair Group 64.](#)

Wiper frame with linkage and wiper motor, removing

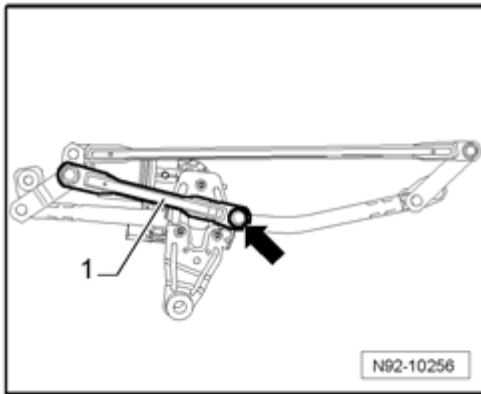
Note:

- *In order remove the wiper frame with linkages and wiper motor, wiper arms and plenum chamber cover (s) must be removed.*

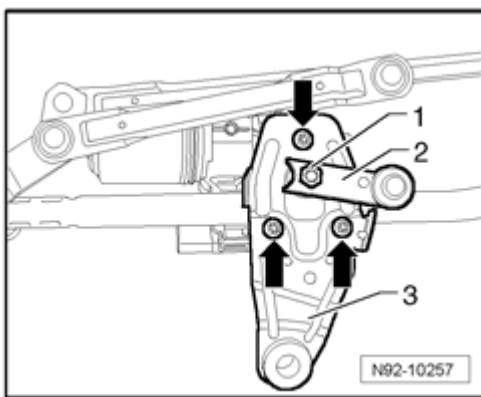


- Release and disconnect electrical connection - **2** - .
- Unclip harness retainer - **3** - from wiper frame bracket.
- Remove lower nut with washer - **4** - .
- Remove upper screws - **1** - .
- Remove wiper frame with linkages and wiper motor from vehicle.

Wiper motor, removing from wiper frame

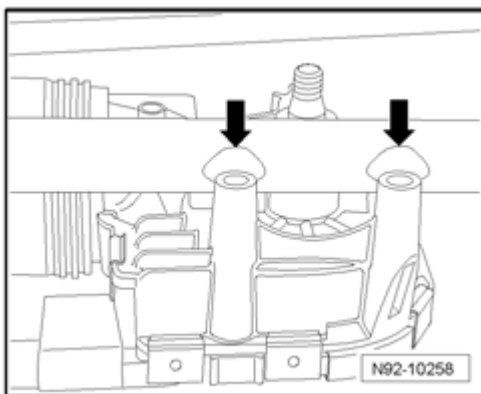


- Pry off ball head - **arrow** - of linkage - **1** - from motor crank using pry lever 80-200 or appropriate screwdriver.



- Remove nut - **1** - .
- Remove motor crank - **2** - from wiper motor shaft.
- Remove screws - **arrows** - and remove retainer bracket - **3** - .
- Remove wiper motor with control module out from below wiper frame.

Wiper motor, installing to wiper frame



- Insert wiper motor with control module into recesses -