



# Technical Bulletin

Model(s)	Year	Eng. Code	Trans. Code	VIN Range From	VIN Range To
Beetle Convertible	2003-2008	All	All	All	All
Beetle Convertible	2009	All	All	1Y_9M000001	1Y_9M411526

## Condition

**64 15 04** December 3, 2015 **2016012** Supersedes T. B. V641202 dated April 23, 2012 due to applicable models are no longer covered under warranty and grease G 00045003 being discontinued.

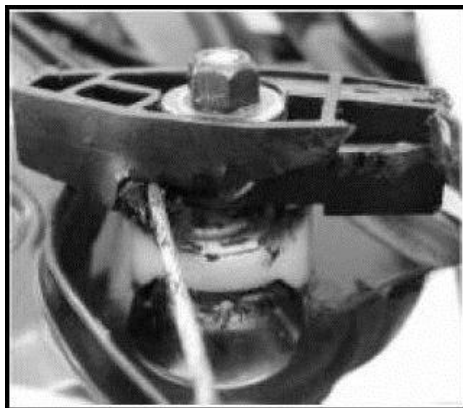
### Window, Rear Side, Inoperative

Rear side window inoperative or will not roll up.

## Technical Background

1. Rear window symptoms may include:

- Noise heard during open and close operation
- Will not close
- Inoperative



Window regulator cable retainer is broken. The material of the retaining clip (POM) is too hard.

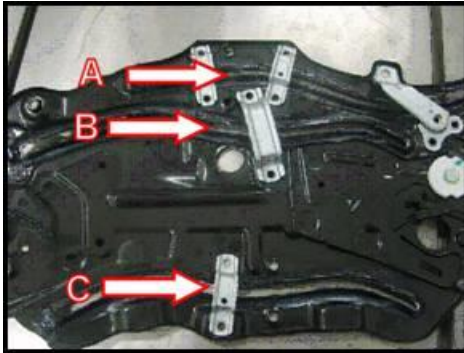
New material change was implemented to improve the part flexibility.



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2. Insufficient use of grease in window regulator guide rails (A, B, and C below) on carrier plate.



## Production Solution

- Grease is used in the cursors and the rail guides of the window regulator beginning with VIN 3VWRF31Y28M420764 (CW 15/08).
- Material modification to POLYAMIDE 6.6. New cable retainer is identified by "polyamide 6.6" beginning with VIN 1Y\_9M411527 (CW 20/09).



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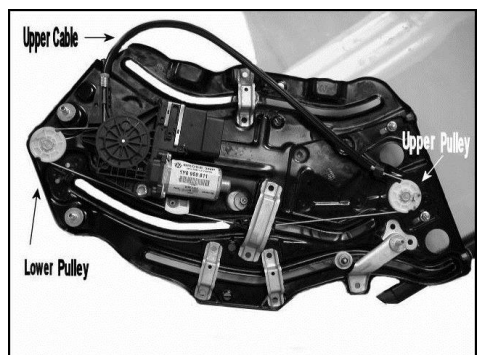
## Service

- If regulator replacement is required, perform *REGULATOR REPLACEMENT*
- If regulator replacement is not required, perform *LUBRICATE CURSERS AND GUIDES – ON VEHICLE*

### REGULATOR REPLACEMENT

#### **Tip:**

When window module is disassembled, verify that the cable and cursor parts are in order, and apply grease as mention in lubrication of carrier plate.



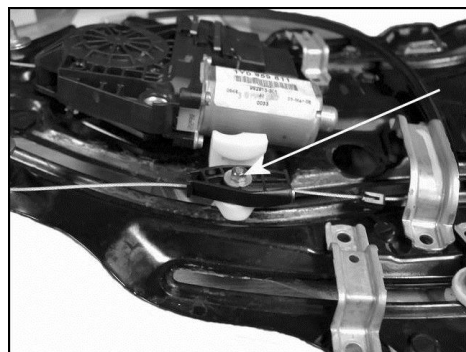
- Remove rear window carrier plate, see Repair manual group 64 Glass, Window regulators, in Elsa.
- Place window carrier plate on a clean and protected surface.

#### **Note:**

- DO NOT** remove the glass from the carrier plate.
- DO NOT** loosen adjustment bolts located above and below lower pulley.

#### **Tip:**

In an effort to save labor time, cut the original window cables as necessary. The cable housing will be replaced during this procedure.



- Manually extend or retract window from carrier plate to gain working access to slider.
- Remove the slider retainer nut and discard.
- Lift cable retainer off of stud and discard.



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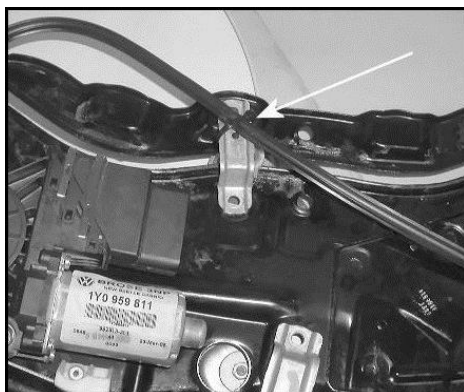
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- Remove washer with tensioning spring and discard.



- Remove slider base and discard.



- Free window cables by cutting the tie strap -arrow- at upper carrier plate support.



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- Carefully invert the window regulator assembly.
- Remove the window regulator fasteners and separate the window regulator from carrier plate support, see Repair manual group 64 Glass, Window regulators, in Elsa.
- Separate window motor from the original cable housing.



## Tip:

A small flat screw driver may be used to separate the window motor from original cable housing.



## Note:

Care must be taken when removing tie straps from new cable housing, prior to attaching the housing to the window motor. The cables are not spring loaded but may become misaligned if handled improperly. Should the new cable housing lose its indexing see, **Re-indexing Cable Assembly** at the end of this procedure.



- Remove the tie straps from new cable guide housing and place new cable housing on window motor.
- Mount window motor to carrier plate using reference tabs and new screws from kit.
- Tighten window motor in cross sequence to 3.5 Nm (31 in. lbs.).



- Pass the cables through carrier plate support brace (as required).



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- Lubricate inside of Curser (slider base) with polyurea based grease (obtained locally) and then place the Curser (slider base) onto carrier plate guide.



- Install new tensioning spring with grease.
- Install 0.5mm washer on top of spring.



- Fit upper and lower cable ends into new cable retainer.
- Ensure cables are fully seated.

 **Tip:**

Ensure upper and/or lower cable is routed through carrier plate support brace as required.



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- Place cable retainer and new 1mm washer onto slider and tighten nut to 2.5 Nm (22 in. lbs.).



**Tip:**

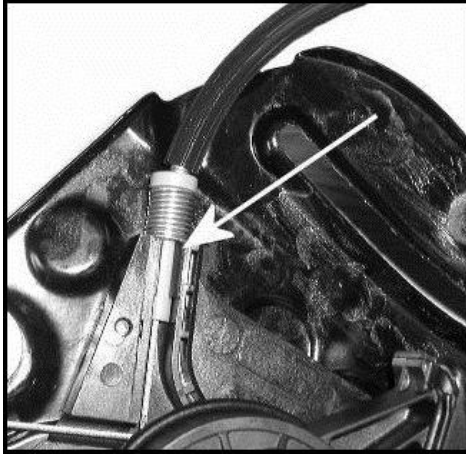
The window and frame assembly may be manually extended or retracted to gain proper positioning of cable assemblies.



- Route upper cable around upper pulley and seat upper cable guide into slot -arrow-.



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- Carefully position the opposite end of the upper cable onto motor.

 **Note:**

The window must be retracted to its lowest position to compress the spring -arrow-.

This action will release tension from cables to ease installation onto pulleys.

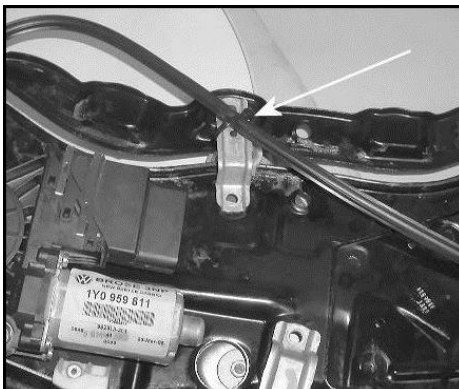


- Retract window and frame to gain maximum slack in cable assemblies.
- Position window cable on to special tool VWM 100 (Window Cable Installation Tool) and fit tool onto lower pulley.
- Twist special tool VWM 100 until tool overcomes the upper cable spring tension and seats cable in lower pulley.


 **Tip:**

Care must be taken to ensure proper position of upper cable during this operation.


Use the notches in the lower pulley to assist cable installation on lower pulley.



- Secure upper cable with tie strap -arrow-.

 **Tip:** The natural curve of the upper cable into the window motor assembly must be preserved.

- Lubricate both carrier plate guides along the entire run of window with polyurea based grease (obtained locally).
- Install and adjust rear window regulator.

 **Tip:** Perform rear window relearn procedure - use key in driver's door and run window full up and down.

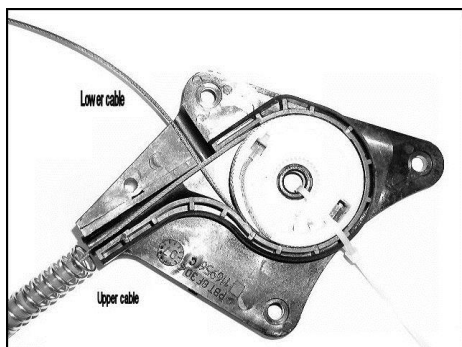
See Repair Manual group 64 Glass, Window regulators, in Elsa.





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## Re-indexing Cable Assembly

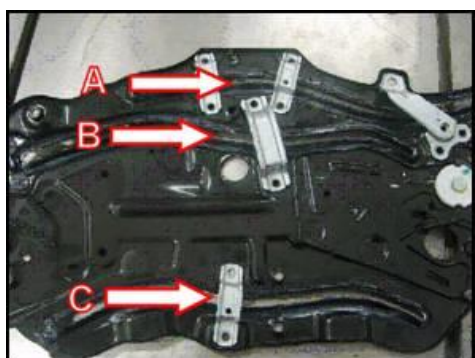


- Seat the lower window cable in the cable guide groove.
- Wrap upper window cable 3 times around the cable guide and insert the guide with cables into the cover assembly.
- Ensure the upper window cable (heavy rubber sheathing) rides on top of the lower window cable (bare cable), and the cable spring is located at the gear housing, before positioning the housing onto window motor.



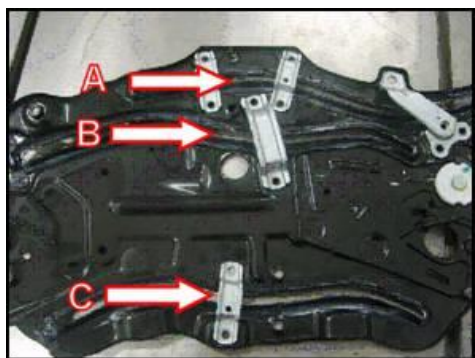
**Tip:**

Right side shown - left side is opposite where rubber sheathed cable is on the bottom of the bare cable.



- Before reinstalling, lubricate window regulator guide rails A, B and C (arrows) and cursers on both sides of carrier plate with polyurea based grease (obtained locally).

## LUBRICATE CURSERS AND GUIDES – ON VEHICLE



- Lubricate window regulator guide rails A, B and C (arrows) on both sides of carrier plate with polyurea based grease (obtained locally).



**Tip:** This procedure can be performed on vehicle. Do not remove window regulator.

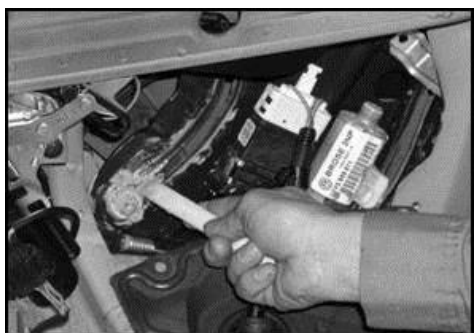


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- Remove interior trim to gain access to the rear window regulator assembly. See Repair Manual group 64 Glass, Window regulators, in Elsa.
- Disconnect regulator harness for easier access to guide rails.



- Apply polyurea based grease (obtained locally) to front and back of guide rails (A, B and C above) and cursers using wedge tool Part No: 3409.



**Tip:** Only a small portion of the forward rails "A" and "B" - arrow- are accessible. The method to distribute the grease will be to cycle the window up and down after grease application.

- Connect regulator harness and cycle window up and down to distribute the grease. Apply more grease and cycle window if necessary.



- Place window at mid position and disconnect regulator harness. Apply grease to center "B" rail cursor -arrow-.
- Connect regulator harness and cycle window up and down to distribute the grease. Apply more grease and cycle window if necessary.



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## Warranty

Information Only.

## Required Parts and Tools

Part Description	Part No:	Quantity
<b>Polyurea based grease</b>	obtained locally	-
Window Cable Housing Kit, Left	1Y0898291	1
Window Cable Housing Kit, Right	1Y0898292	1

Tool Description	Tool No:	Quantity
Wedge	3409*	1
Window Cable Installation Tool	VWM 100*	1

## Additional Information

All part and service references provided in this Technical Bulletin are subject to change and/or removal. Always check with your Parts Dept. and Repair Manuals for the latest information.