



Technical Service Bulletin

37 Vehicle electronics malfunction message, DTC B116229 is stored in the steering wheel or vehicle electronics module

37 20 95 2047609/4 April 10, 2020. Supersedes Technical Service Bulletin Group 34 number 20-44 dated March 5, 2020 for reasons listed below.

| Model(s) | Year | VIN Range | Vehicle-Specific Equipment |
|-------------------------------|-------------|--|---|
| A3, S3, A3 Cabriolet, and RS3 | 2015 - 2018 | All | With 0GC 7 speed S-tronic transmissions |
| A3, S3, A3 Cabriolet, and RS3 | 2019 | A000001 – 125636 Or 1000001 - 033033 | With 0GC 7 speed S-tronic transmissions |
| A3, S3, A3 Cabriolet, and RS3 | 2020 | 000001 - 009741 | With 0GC 7 speed S-tronic transmissions |

Condition

| REVISION HISTORY | | |
|------------------|------------|---|
| Revision | Date | Purpose |
| 4 | - | Revised title (Updated Service Number) Revised <i>Warranty</i> (Updated Service Number and Damage Code) |
| 3 | 03/05/2020 | Revised header (Removed PR code filter) Revised <i>Required Parts and Tools</i> (Removed table) |
| 2 | 02/19/2020 | Revised Title Revised header (Added module in DTC and updated models and model years) Revised <i>Condition</i> (Updated all information) Revised <i>Technical Background</i> (Defined problem) Revised <i>Production Solution</i> (Added solution) Revised <i>Service</i> (New repair) Revised <i>Warranty</i> (Updated for new repair) Revised <i>Required Parts and Tools</i> (Updated for new repair) |

Customer states:

- Warning message in driver information display stating, "Vehicle Electronics Malfunction" or "Shift to P, otherwise vehicle can roll away. Doors do not lock if lever is not in P".



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Workshop findings:

The following DTC is stored in the steering wheel electronics module, J527 (address word 0016) or the vehicle central electrical system module, J519 (diagnosis address 0009):

- **DTC B116229** (Selector lever park position lock switch implausible signal).

Technical Background

Component-related deviation in microswitch of the selector lever.

Production Solution

Improved switch.

Service

If the customer has the above condition and the DTC B116229 is stored in the steering wheel electronics module, J527 (address word 0016) or the vehicle central electrical system module J519 (address word 0009), then install the new externally mounted micro switch module and selector lever handle sleeve per the instructions below (Figure 1).



Figure 1. New micro switch module.

Warning: Before starting the repair the parking brake must be set so the vehicle does not roll during the repair.



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1. Set the parking brake. Remove the shift knob with the boot (Position 10), selector lever transmission range position display unit Y26 (Position 11), and center console insert (Position 15) per the repair manual instruction (Figure 2).

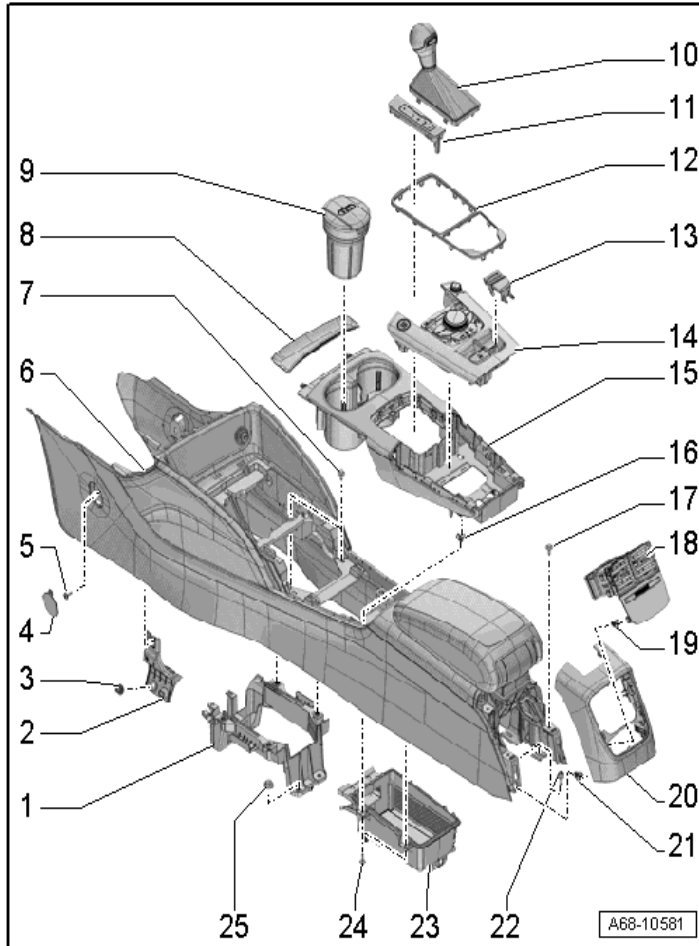


Figure 2. Center console overview.

2. Disconnect the electrical connector from the selector lever control module (Figure 3).



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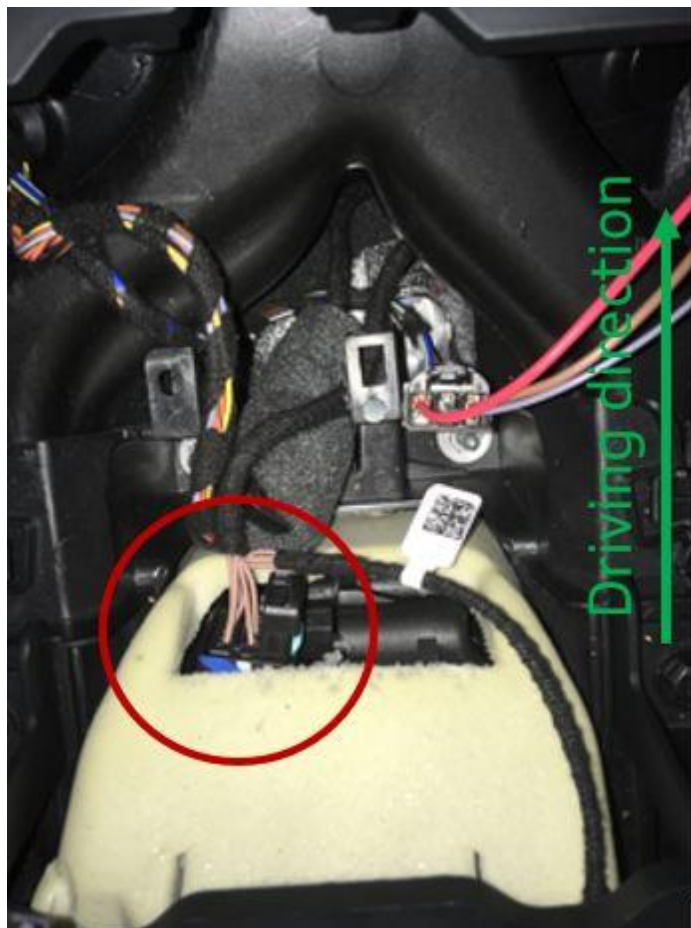
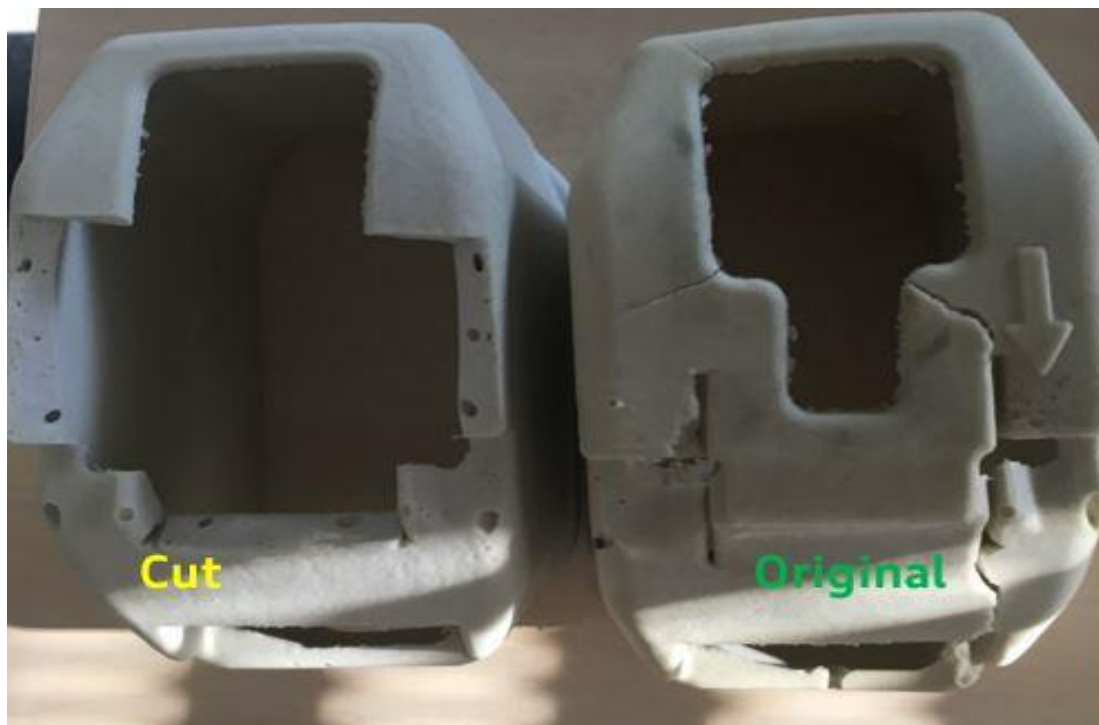


Figure 3. The electrical connection of the selector lever control module.

3. Carefully remove the foam insulation from the selector lever control module and carefully modify the insulation as shown below with scissors or a sharp knife (Figure 4 and Figure 5).



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Figure 4. Modified and original insulation.



Figure 5. Example of modified insulation installed on a shifter housing.

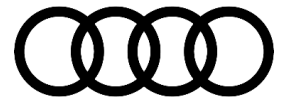
- Carefully reinstall the foam insulation as shown above (Figure 5).



Note:

For the remaining instructions, we will show pictures of the repair without the insulation installed to facilitate better pictures of the repair.

- Tape the opening of the shift gate to protect the module from screws or tools falling into the control module. Tape the opening as shown below while leaving the screws (circled in red) uncovered (Figure 6).



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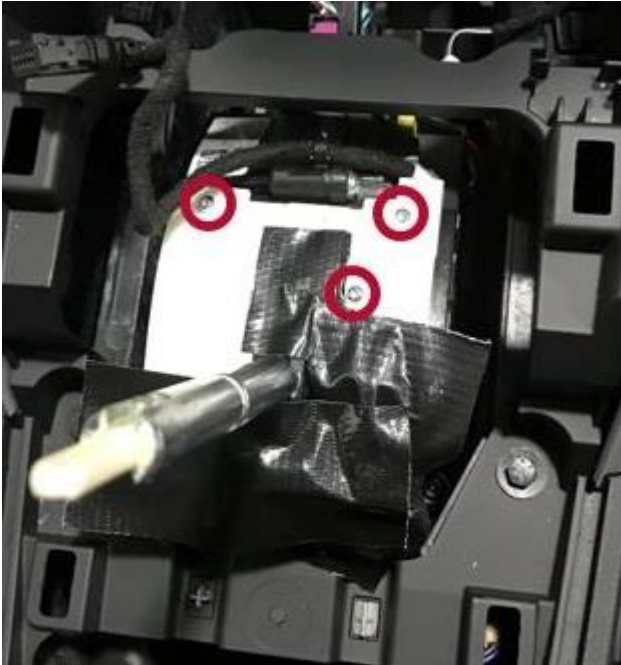


Figure 6. The tape covering shift gate and screw locations.

6. Remove the T-9 screws show above (Figure 6) circled in red. You may discard these screws, as they will not be reused. Then move the wiring of the selector lever transmission range position display unit Y26 out of the way to the passenger side as shown below (Figure 7). Remove the harness from the retention clip (Position 1) and set the harness to the side as shown in yellow (Position 2).



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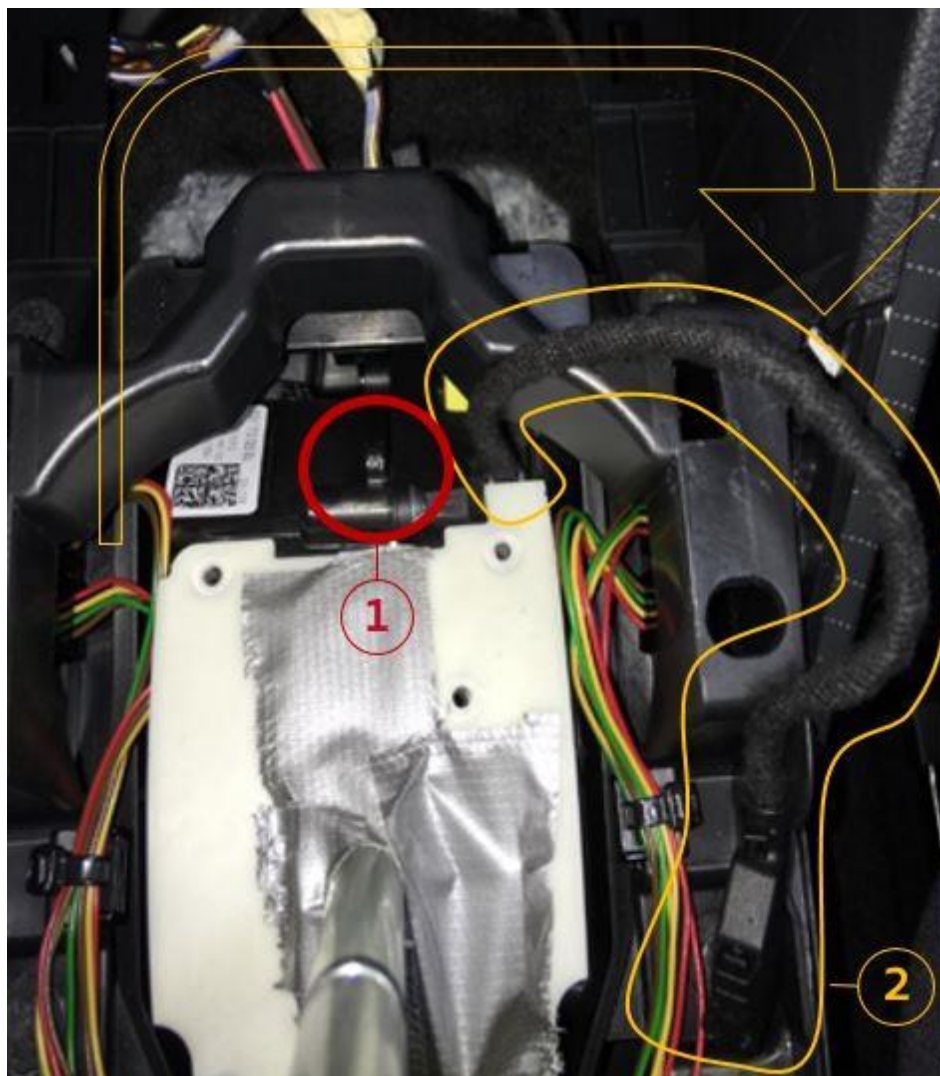


Figure 7. Display unit Y26 harness repositioning.

7. Lead the Y cable wiring harness of the new micro switch module under the crosspiece and on top of the foam insulation (Figure 8).



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Figure 8. Wiring harness run under the crosspiece.

8. Plug one end of the Y cable into the selector lever control module and the other end into the existing vehicle harness. Pull the foam cover over the connection to the vehicle harness.



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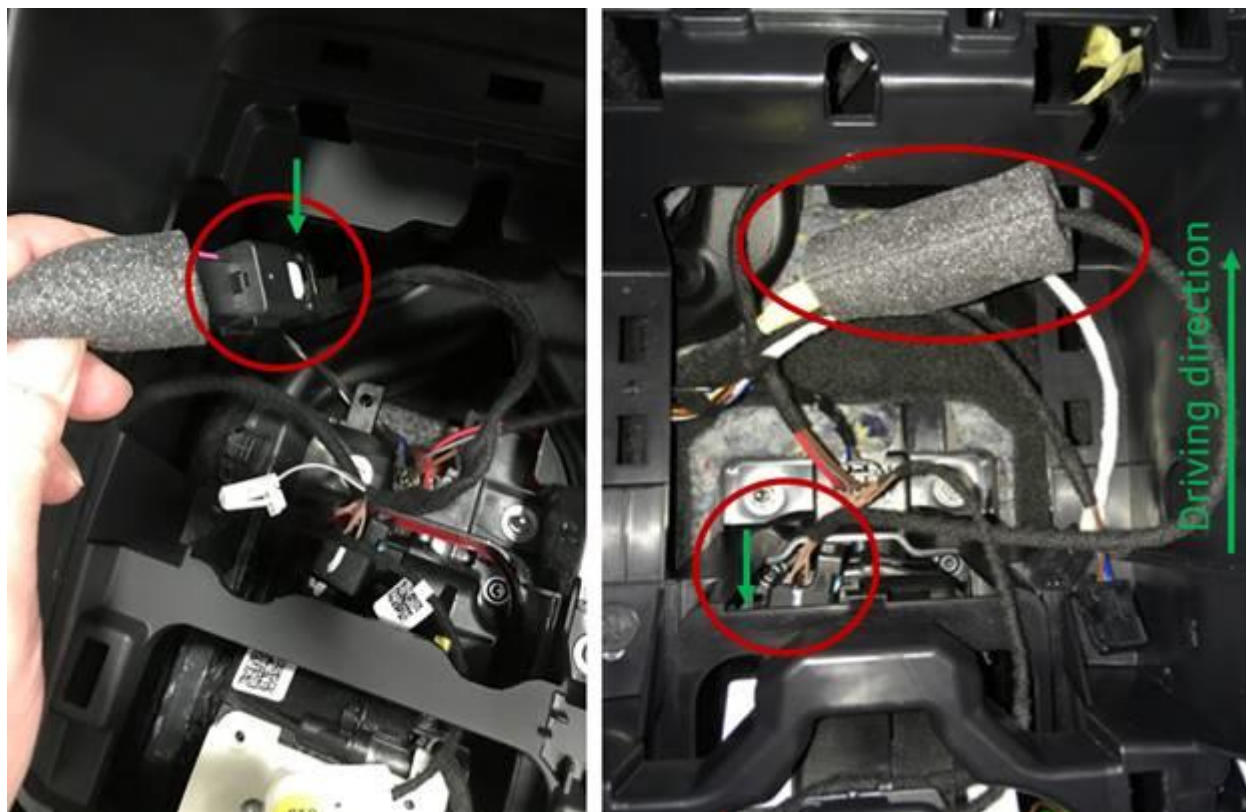
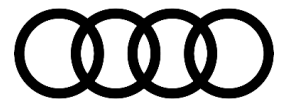


Figure 9. Wiring connections.

9. Install the microswitch module to the selector using the new longer T-9 screws included in the repair kit. After all three screws have been started, remove any of the tape that might interfere with the base of the microswitch module. Torque the screws to 1.0 Nm and remove the remaining tape from the shift gate (Figure 10).



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Figure 10. *Installing the microswitch module.*

10. As shown below route the wiring of the selector lever transmission range position display unit Y26 back to the driver's side of the shift selector (Position 1) and secure harness back to the selector lever control module (Position 2) (Figure 11).



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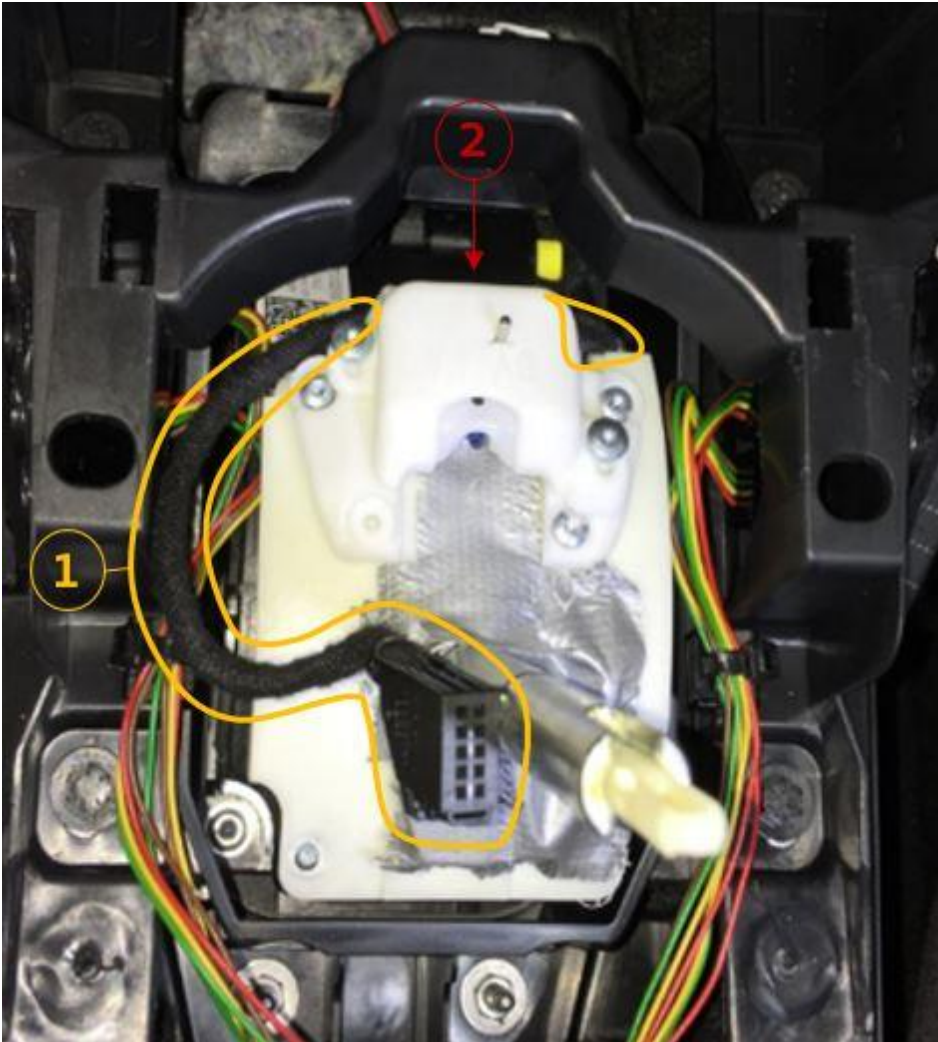
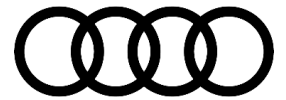


Figure 11. Display unit Y26 harness.

11. Place the selector lever into the “Park” position and adjust the microswitch module as shown below (Figure 12).
 - Lightly pull the selector lever toward the reverse lockout (the release mechanism must not be operated) and hold in this position.
 - Move the adjustable slide of the microswitch module until it is completely touching the selector lever and tighten the two T-9 screws to 1.0 Nm.
 - Carefully remove the locking pin from the microswitch module making sure you do not drop it into the open shift gate. Save the locking pin until the repair is complete as it may be needed for readjustment.



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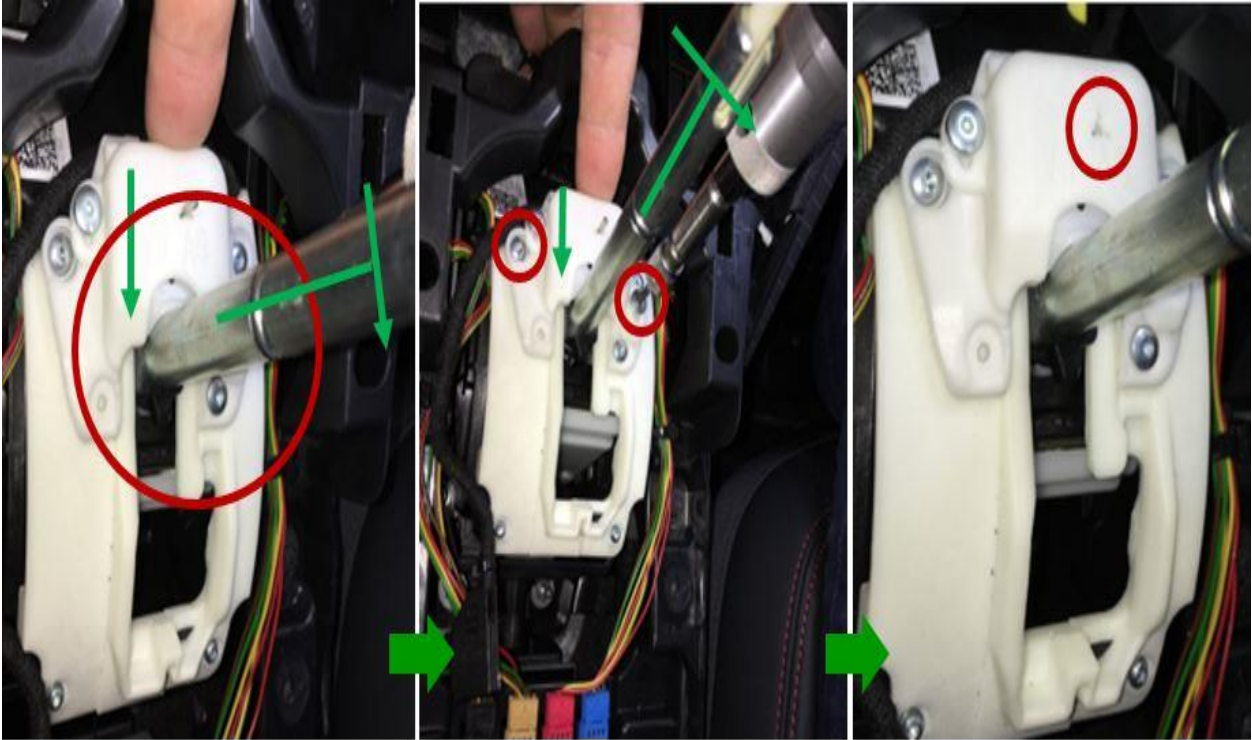
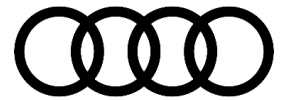


Figure 12. *Microswitch module adjustment.*

12. Reinstall the center console insert. Make sure all wiring has been routed correctly and cannot be damaged by sharp edges. Plug in display unit Y26 but do not install it in the console yet (Figure 13).



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Figure 13. Console insert installed.

13. Install the new selector lever handle sleeve on the bottom of the shift knob. The original locking collar can be removed with a small screwdriver or micro pry bar (Figure 14). The new selector lever handle sleeve snaps in place of the old collar (Figure 15) and operates with the same locking function while protecting the microswitch module from interference with the shift boot.



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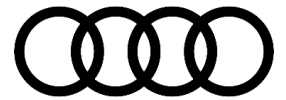


Figure 14. Locking collar removing.



Figure 15. Selector lever handle sleeve.

14. Install the shift knob per the repair manual but do not install the boot to the console, as a 2nd adjustment might be needed.
15. Perform the GFF test plan for the DTC B116229 (Selector lever park position lock switch implausible signal) for fine-tuning of the microswitch module.
16. Reinstall the display unit Y26 and the shifter boot per the repair manual. Recheck for proper operation.



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Warranty

| | | | |
|--------------------------|---|--------------|--|
| Claim Type: | <ul style="list-style-type: none">• 110 up to 48 Months/50,000 Miles.• G10 for CPO Covered Vehicles – Verify Owner.• If the vehicle is outside any warranty, this Technical Service Bulletin is informational only. | | |
| Service Number: | 3765 | | |
| Damage Code: | 0040 | | |
| Labor Operations: | Remove and install the console | 6817 1900 | See SRT |
| | Modify gear lever housing (installation of a microswitch module) | 3410 3199 | 30 TU |
| Diagnostic Time: | GFF | 0150 0000 | Time stated on the diagnostic protocol (Max 70 TU) |
| | Road test prior to service procedure | No allowance | 0 TU |
| | Road test after service procedure | 0121 0004 | 10 TU |
| Claim Comment: | As per TSB #2047609/4 | | |

All warranty claims submitted for payment must be in accordance with the *Audi Warranty Policies and Procedures Manual*. Claims are subject to review or audit by Audi Warranty.

Required Parts and Tools

| Always check with your Parts Department and/or ETKA for the latest information and parts bulletins. | | |
|---|--|---------------|
| Part Number | Part Description | Quantity |
| 3Q0713128 | Microswitch module repair kit | 01 |
| 8V0713169 | Selector lever handle sleeve | 01 |
| See ETKA | Fasteners, Bolts, Nuts, and Screws as needed per the Repair Manual | See ETKA/ELSA |



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Additional Information

All parts and service references provided in this TSB (2047609) are subject to change and/or removal.

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