Search:	
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5-Speed Electronic Manual Transmission (085)

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Contents

- 1 Special Procedures
 - 1.1 Clutch Travel Sender Adaptation
 - 1.2 Gear Actuator Adaptation
 - 1.3 Creep Point Adaptation

Special Procedures

Prerequisites:

- Transmission Oil Level correct.
- No Fault Codes stored.
- Supply voltage at least 12V.
- Selector Lever in Tiptronic Mode.
- The following Basic Settings need to be carried out when:
 - Every 30000 km / 19000 mi
 - Engine has been removed/replaced
 - Transmission has been removed/replaced
 - Engine Control Module has been replaced
 - Transmission Control Module has been replaced
 - Clutch has been removed/adjusted/replaced
 - Gear Selector or Actuator has been removed/adjusted/replaced
 - Selector Lever has been removed/adjusted/replaced
- Common issues:
 - The connection to the control module may be interrupted after starting the engine, as long as you do NOT switch of the ignition the cntrol module will continue at exactly the same position where the connection got interrupted. Step back into the basic setting as usual.

Clutch Travel Sender Adaptation

[Select]

[02 - Transmission]

[Measuring Blocks - 08]

Block 002

[Go!]

Remove connector from hydraulic unit.

Check field 2, specification is 1.8...2.0 V.

If the specification is not reached, adjust the Clutch Travel Sender (G162).

Re-attach connector to hydraulic unit.

[Done, Go Back]

[Close Controller, Go Back - 06]

Cycle ignition OFF/ON.

[Select]

[02 - Transmission]

[Fault Codes - 08]

[Clear Codes - 05]

[Done, Go Back]

Gear Actuator Adaptation

[Basic Setting - 04]

Block 014

[Go!]

1st field should change from WAIT to ADJUST.

Loosen the gear actuator nut and tighten it with zero-potential.

Switch selector lever in **E** or **D** and back to Tiptronic Mode.

1st field should show **WAIT** now, transmission now does some shifts, you can monitor them in field 2 (Range: 0...28).

1st field should change from **WAIT** to (-), pull the selector lever to **Minus** and hold it for 5 seconds.

1st field should show **STOP** now, put the selector lever in position **STOP** and wait 5 seconds.

1st field should show **KickDown** now, floor the accelerator pedal completely (to kick down) and wait 5 seconds.

1st field should show N now, put the selector lever in position N.

1st field should show **StartMot** now, start the engine and let it idle 15 seconds.

1st field should change from **SEARCHNG** to **IGN.OFF**, put the selector lever in Position **STOP**.

Switch ignition off and wait 15 seconds.

In case there is an Error during the Basic Setting, the Measuring Value Blocks (MVB) will show **RTFM!** followed by a Number which describes the Reason why it failed.

- 7 = Potentiometer 2 for Gear Recognition (G240)
 - Check Switches and Wiring/Connectors using Measuring Value Blocks (MVB) and Wiring Diagram.

- 8 = Potentiometer 1 for Gear Recognition (G239)
 - Check Switches and Wiring/Connectors using Measuring Value Blocks (MVB) and Wiring Diagram.
- 9 = Reverse Light Switch (F4)
 - Check Switches and Wiring/Connectors using Measuring Value Blocks (MVB) and Wiring Diagram.
- 10 = Potentiometer Values fluctuating during Measurement
 - Check the corresponding Potentiometers in Measuring Value Blocks (MVB) 015 to 018
 - Check Fault Codes (repair if necessary) and Perform Basic Setting again
- 11 = Potentiometer Values
 - Check the corresponding Potentiometers in Measuring Value Blocks (MVB) 015 to 018
 - Check Fault Codes (repair if necessary) and Perform Basic Setting again
- 12 = Gear Actuator incorrectly adjusted or measured values out of specification.
 - Potentiometer, Valves and Selector Finger at the Ball Heads for correct assembly and seating
 - Perform Basic Setting again after adjusting the Gear Actuator

Creep Point Adaptation

[Select]

[02 - Transmission]

[Measuring Blocks - 08]

Block 025

[Go!]

Start the engine, engage the handbrake and press the foot brake.

Put the selector lever in position **E** or **D**.

You can determine the number of creep points left in field 3. It should start at 5 and count down to 0.

Release the brake pedal for at least 3 seconds, press the brake pedal again and hold it for at least 3 seconds.

Repeat the last step until field 3 shows **0**.

If the specified value in field 3 is not reached, check fault codes and perform basic setting again.

[Done, Go Back]

[Close Controller, Go Back - 06]

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Category: Transmissions

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