

Technical Service Bulletin

Topic	Bentayga - Transmission Analysis
Market area	Bentley: worldwide (2WBE),Hongkong-Macau (5HK)
Brand	Bentley
Transaction No.	2048196/3
Level	EH
Status	Released for publishing
Release date	May 20, 2019

New customer code

Object of complaint	Complaint type	Position
transmission -> transmission control operation -> clutch control	functionality -> irregular	
transmission -> operation, shift and power distribution control	functionality	
transmission -> transmission control operation	functionality	

New workshop code

Object of complaint	Complaint type	Position
transmission -> operation, shift and power distribution control -> transmission hydraulic control unit	functionality -> no function	

Vehicle data

Bentayga

Sales types

Type	MY	Brand	Designation	Engine code	Gearbox code	Final drive code
4V1*	2017	E		*	*	*
4V1*	2018	E		*	*	*
4V1*	2019	E		*	*	*
4V1*	2020	E		*	*	*

Chassis numbers

Manufacturer	Filler	Type	Filler	MY	Factory	From	To	Prod from	Prod to
SJA	*	*	*	*	C	000001	999999		

Documents

Document name
master.xml
bentayga_8_speed_transmission_analysis.pdf

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Condition

Not Applicable.

Technical Background

This Technical Product Information document is designed to assist with Transmission fault diagnosis.

Production Solution

Not applicable.

Service

When carrying out Transmission fault diagnosis complete all relevant sections of the attached document "Bentayga_8_speed_transmission_analysis", raise a DISS query and attach a completed copy of the document. Use the process below to read required values.

Connect the Bentley approved diagnostic tool to the vehicle On Board Diagnostic (OBD) socket.

From the Desktop, launch Offboard Diagnostic Information System Service (ODIS)

Select *Start Diagnosis* and follow the on screen prompts.

Reading Adaption Values

Select *Control Units*, "right click" on *Transmission Control Module* and select *Guided functions*– figure 1.

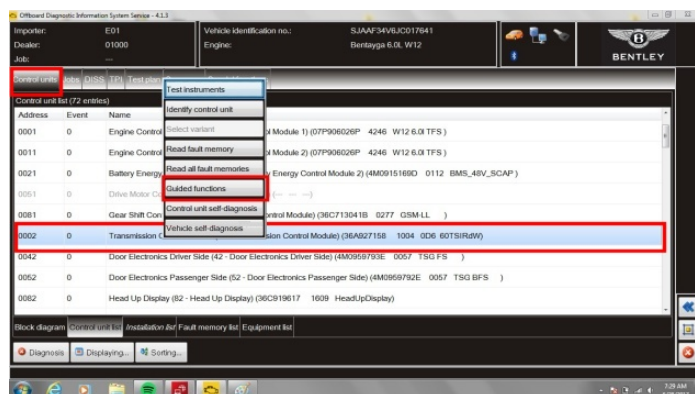


Figure 1

Select *02 – Basic settings (Rep.Gr35)*– figure 2.

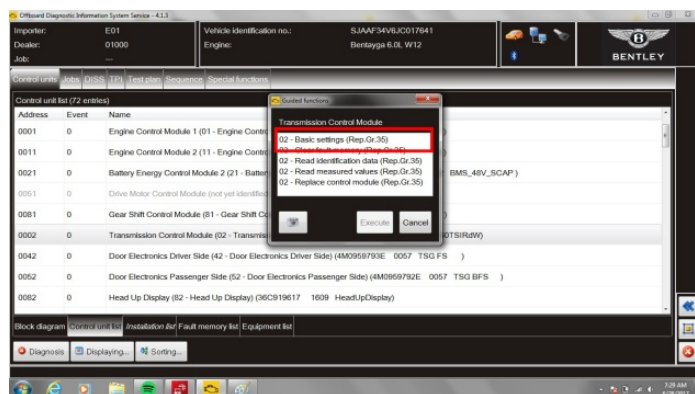


Figure 2

Select *Done / Continue*

Select *1. Read current adaption values*– figure 3.

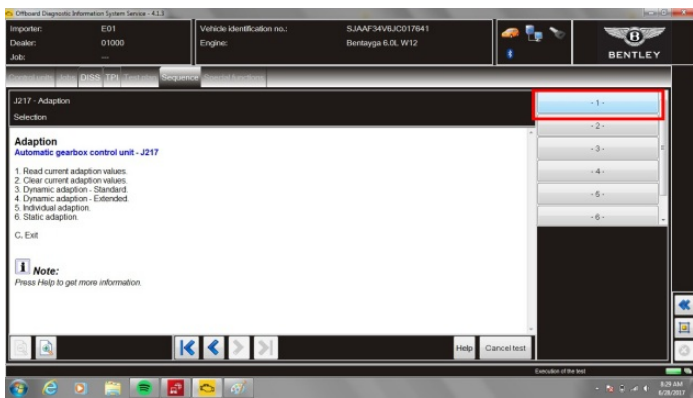


Figure 3

Record the following values - *Adaption counter 1 / Adaption counter 2 / Adaption counter 3 / Fill pressure / Fill time*, when complete select *Done/Continue* – figure 4.

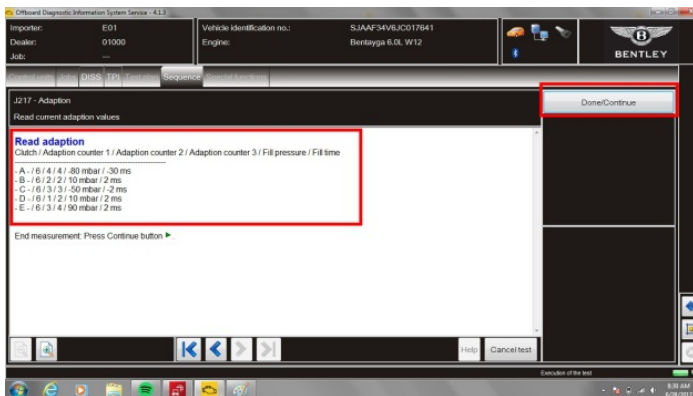


Figure 4

Select "C" Exit – figure 5.

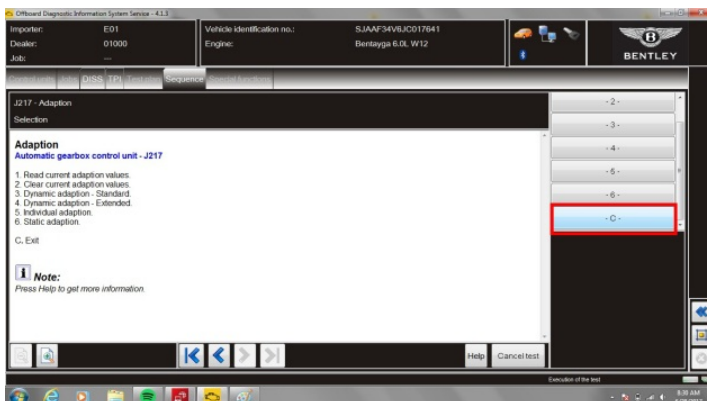


Figure 5

Dynamic adaption – Standard and Extended

Note: If the "Extended" adaption process is to be carried out the "Standard" adaption process must be conducted first.

Select *Control Units, Transmission Control Module, Guided functions, 02 – Basic settings (Rep.Gr35)* and either **3 Dynamic adaption – Standard** or **4 Dynamic adaption – Extended**, follow the on screen prompts – figure 6.

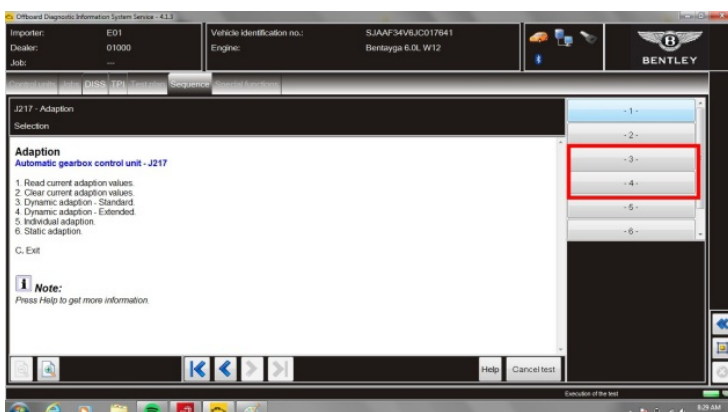


Figure 6

Reading IDE00090 - "Selected Gear"

Select "Control Units – Transmission Control Module – Guided functions – Read Measured Values – IDE00090 – Selected Gear".

Reading IDE04629 – AVS Operating Condition

Select "Control Units – Engine Control Module 1 – Guided Functions – Read Measured Values – IDE04629 – AVS Operating Condition".

Reading Torque Adaptions

Select "Control Units – Engine Control Module 1 – Guided Functions – Read Measured Values – IDE01901 – Lost Torque Adaption, Idle.

IDE01902 – Lost Torque Adaption A/C Compressor.

IDE01903 – Lost Torque Adaption Driving mode.

IDE01904 – Lost Torque Adaption A/C Compressor.

Monitor all values until they settle. Values will vary from car to car, 10-25Nm is normal, readings of 50Nm or more may indicate an issue.

Warranty

Not Applicable.