MERCEDES 722.9
DELAYED REVERSE ENGAGEMENT

COMPLAINT: Some 2009 model Mercedes Benz vehicles equipped with the 722.9 transmission may exhibit a Delayed Reverse Engagement after overhaul.

CAUSE: The cause may be, that the engagement relearn sequence was not performed.

CORRECTION: To correct this condition, use a capable scan tool to reset adaptives and note, a sequence of engagements may need to be performed under specific temperatures as shown in Figure 1.

Note: There is a PC based software program that is reasonably priced "a capable scan tool" available from bluelinkdiag.com . Refer to screen captures shown on the following pages showing the adaptation process.

REVERSE ENGAGEMENT RELEARN PROCEDURE

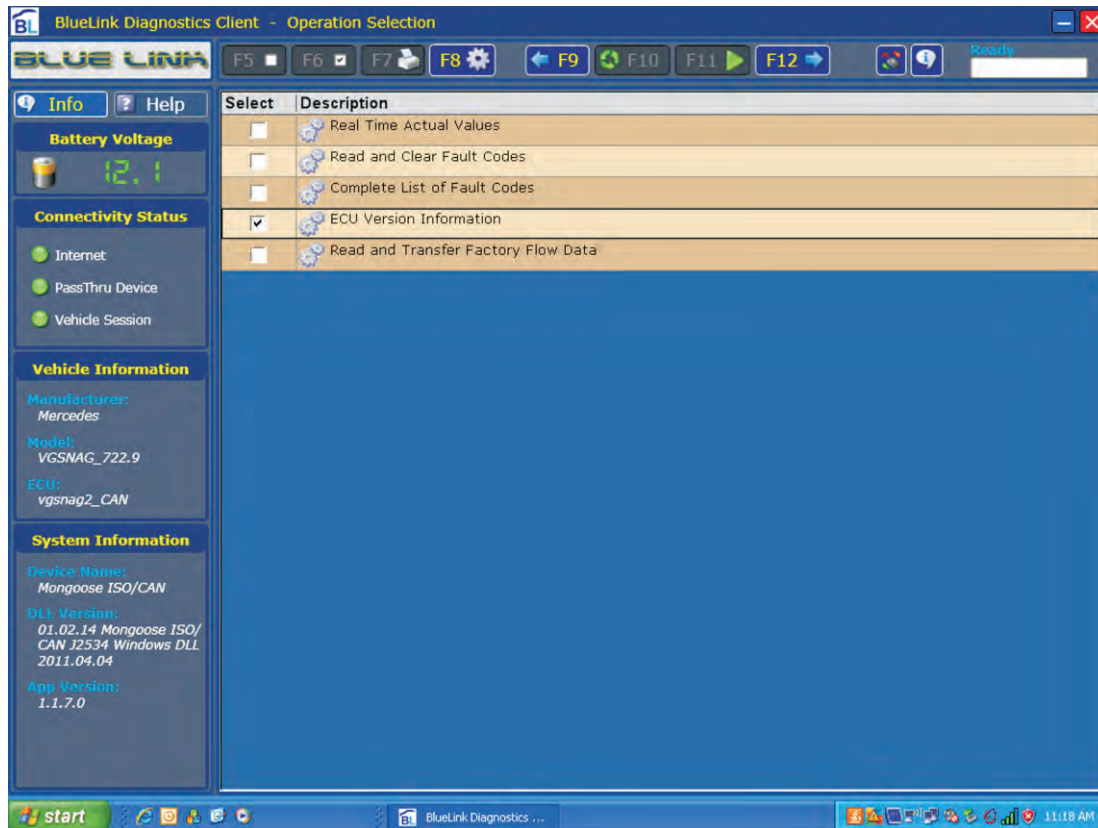*Using a capable scan tool to monitor Transmission Fluid temperature:*

● Start engine from cold
Shift 5 times N to Reverse (remain in gear for 5 seconds)

● Warm to 40°C 86°F
Shift 5 times N to Reverse (remain in gear for 5 seconds)
Then drive the vehicle forward and exceed a speed of 50kmh/32mph at least 1 time.
Stop the vehicle-Shift 5 times N to Reverse (remain in gear for 5 seconds)

● Warm to 70°C 158°F
Shift 5 times N to Drive (remain in gear for 5 seconds)
Then drive the vehicle forward and exceed a speed of 50kmh/32mph at least 1 time.
Stop the vehicle-Shift 5 times N to Reverse (remain in gear for 5 seconds)
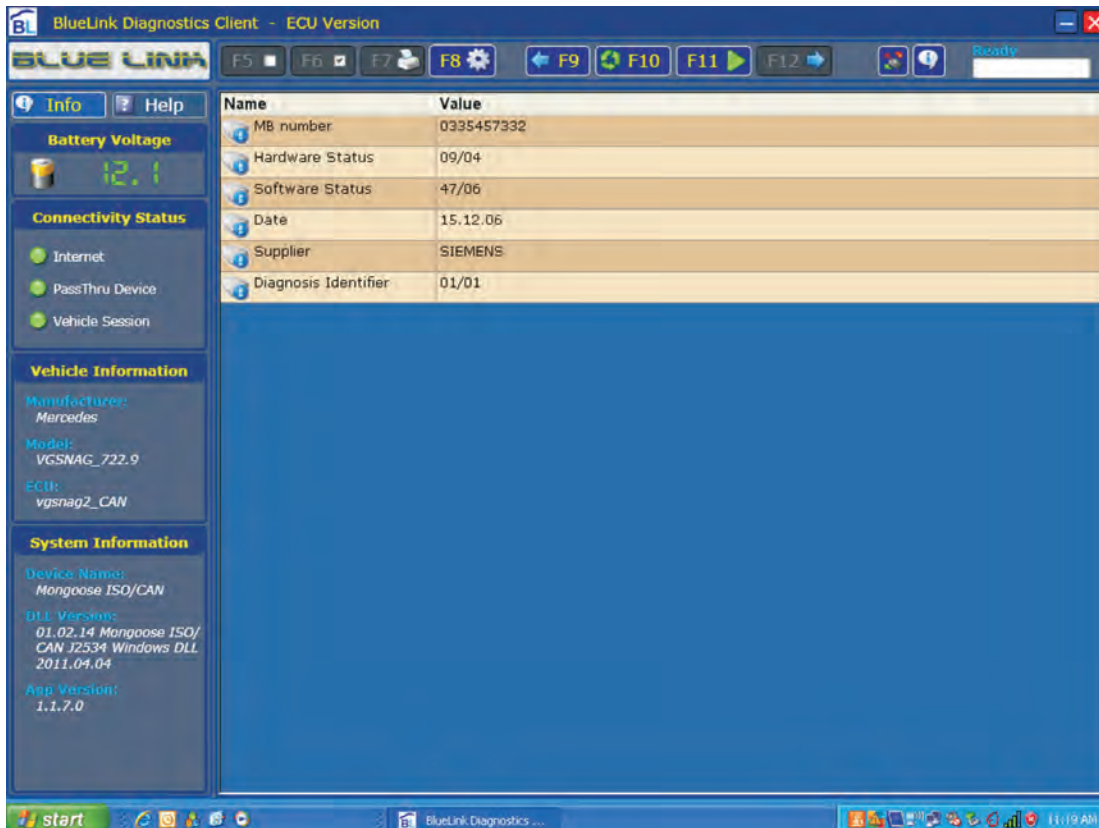Stop the vehicle-Shift 5 times N to Drive (remain in gear for 5 seconds)

Figure 1

BLUE LINK SCAN TOOL OPERATION SELECTION

ECU VERSION INFORMATION
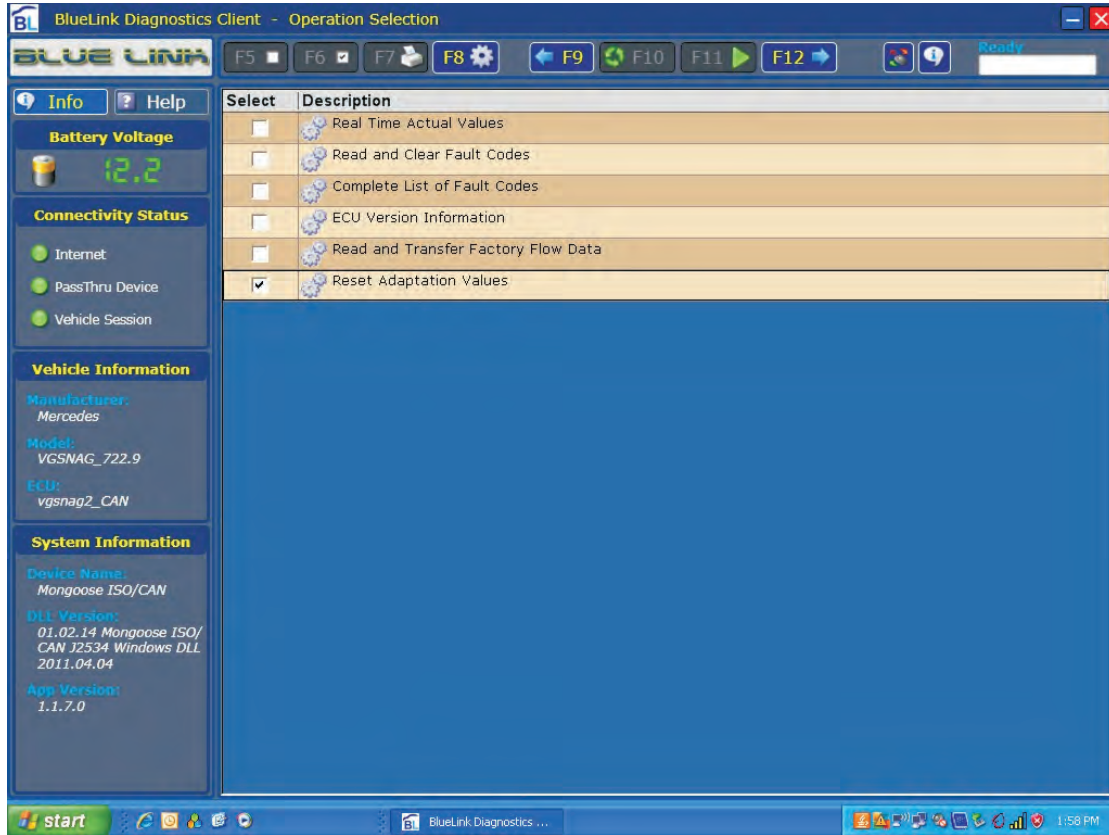
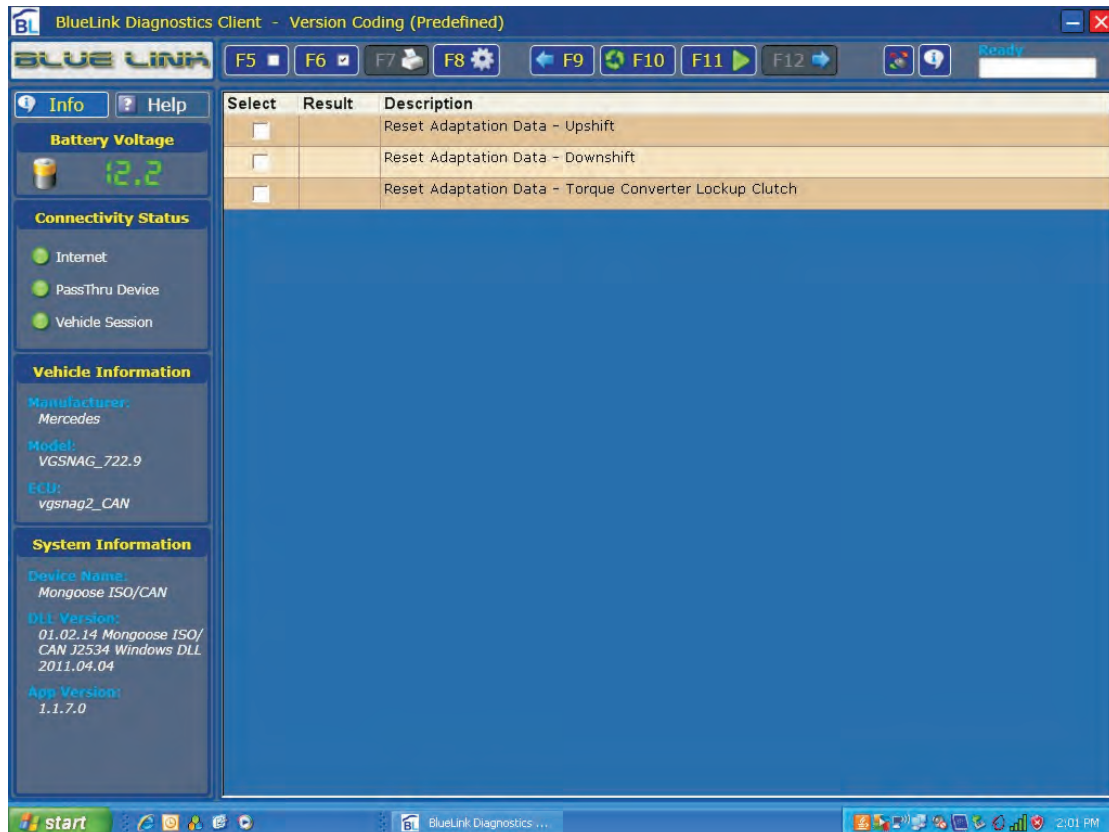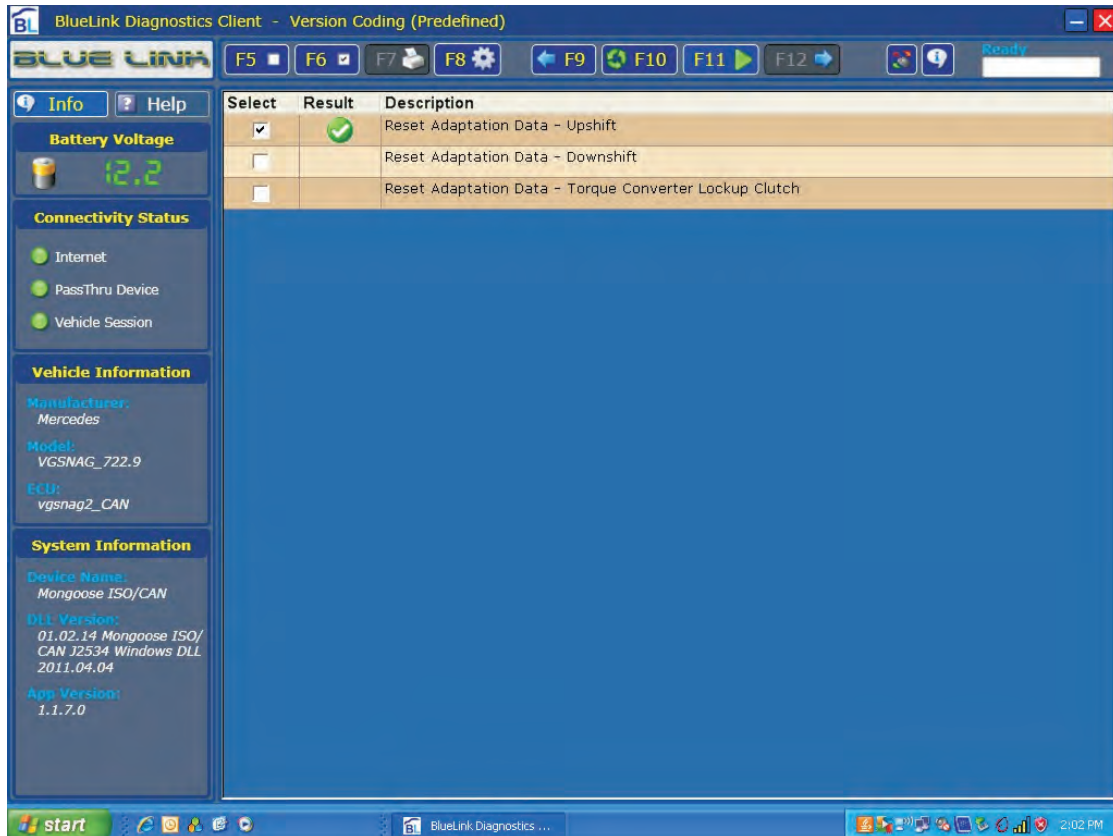## OPERATION SELECTION-RESETTING ADAPTIVES

BlueLink Diagnostics Client - Operation Selection

Select	Description
☐	Real Time Actual Values
☐	Read and Clear Fault Codes
☐	Complete List of Fault Codes
☐	ECU Version Information
☐	Read and Transfer Factory Flow Data
☑	Reset Adaptation Values

Info Help

Battery Voltage
12.2

Connectivity Status
● Internet
● PassThru Device
● Vehicle Session

Vehicle Information
Manufacturer:
Mercedes
Model:
VGSNAG_722.9
ECU:
vgsnag2_CAN

System Information
Device Name:
Mongoose ISO/CAN
DLL Version:
01.02.14 Mongoose ISO/
CAN J2534 Windows DLL
2011.04.04
App Version:
1.1.7.0

RESETTING ADAPTIVES SELECTION

BlueLink Diagnostics Client - Version Coding (Predefined)

Select	Result	Description
☐		Reset Adaptation Data – Upshift
☐		Reset Adaptation Data – Downshift
☐		Reset Adaptation Data – Torque Converter Lockup Clutch

Info Help

Battery Voltage
12.2

Connectivity Status
● Internet
● PassThru Device
● Vehicle Session

Vehicle Information
Manufacturer:
Mercedes
Model:
VGSNAG_722.9
ECU:
vgsnag2_CAN

System Information
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CAN J2534 Windows DLL
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App Version:
1.1.7.0

ADAPTIVE RESET

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