The Big Book Of ODIS

OFFBOARD DiAGNOSTiC

INFORMATION SYSTEM

SERVICE

Quick Review of how to read Volkswagen and Audi Factory wiring diagrams.

The following list shows the German abbreviations to the English text for the most common colors.

bl. Blue

br. Brown

ge . . . . Yellow

gn . . . . Green

ro. Red

sw. . . . . Black

li . . . . Violet

ws. . . . . White

DIN standards for terminal designations

The following are examples of the common Volkswagen DIN list for terminal designations:

1   Ignition coil, ignition distributor - Low voltage

1a To contact breaker I (Ignition distributor with two separate circuits)

1b To contact breaker II (Ignition distributor with two separate circuits)

4   Ignition coil, ignition distributor - high voltage

4a From ignition coil I (Ignition distributor with two separate circuits)

4b From ignition coil II (Ignition distributor with two separate circuits)

15 Switched (+) downstream of battery (output of ignition/driving switch)

15a Output at ballast resistor to ignition coil and starter

17 Glow plug and starter switch - Start

19 Glow plug and starter switch - Preheat

30 Input from battery (+) term., direct 12/24 V series-parallel battery switch

30a Input from (+) terminal of battery II

31 Battery negative terminal, or ground, direct

31b Return line to battery negative terminal, or ground via switch or relay (switched negative)

31a Return line to battery II, negative (12/24 V series-parallel battery switch)

31c Return line to battery I, negative (12/24 V series-parallel battery switch)

Electric motors

32 Return line

33 Main terminal connection

33a Self-parking switch-off

33b Shunt field

33f For second lower-speed range

33g For third lower-speed range

33h For fourth lower-speed range

33L Counterclockwise rotation

33R Clockwise rotation

Starters

45 Separate starter relay, output; starter, input (main current)

Two-starter parallel operation - Starting relay for engagement current

45a Output, starter I, Input, starters I and II

45b Output, starter II

48 Terminal on starter & on start-repeating relay for monitoring starting

Turn-signal flashers (pulse generators)

49 Input

49a Output

49b Output, second circuit

49c Output, third circuit

Starter control

50	Starter control (direct)
50a	Series-parallel battery switch - Output for starter control
50b	with parallel operation of two starters with sequential control
	Starting relay for sequential control of the engagement current during parallel operation of two starters
50c	Input at starting relay for starter I
50d	Input at starting relay for starter II
50e	Start-locking relay Input
50f	Start-locking relay Output
50g	Start-repeating relay Input
50h	Start-repeating relay Output

Wiper motors

53	Wiper motor, input (+)
53a	Wiper (+), self-parking switch-off
53b	Wiper (shunt winding)
53c	Electric windshield-washer pump
53e	Wiper (brake winding)
53l	Wiper motor with permanent magnet and third brush (for higher speed)

Lighting

55	Fog lamp
56	Headlamp
56a	High beam, high-beam indicator lamp
56b	Low beam
56d	Headlamp-flasher contact
57a	Parking lamp
57L	Parking lamp, left
57R	Parking lamp, right
58	Side-marker, tail, license plate, and instrument panel lamps
58b	Dimmer
58d	Dimmer
58L	License-plate lamp, left
58R	License-plate lamp, right

Alternators and voltage regulators

61	Alternator charge-indicator lamp
B+	Battery positive
B-	Battery negative
D+	Dynamo positive
D-	Dynamo negative
DF	Dynamo field
DF1	Dynamo field 1
DF2	Dynamo field 2
U,V,W	Alternator terminals
75	Radio, cigarette lighter
76	Speakers

Switches

Break contact (NC) and changeover switches

81	Input
81a	Output 1, NC side
81b	Output 2, NC side

Make contact (NO) switches

82	Input
82a	Output 1
82b	Output 2
82z	Input 1
82y	Input 2

Multiple-position switches

83	Input
83a	Output, position 1
83b	Output, position 2
83L	Output, left-hand position
83R	Output, right-hand position

Relays/Current relays

84   Input, actuator and relay contact

84a Output, actuator

84a Output, relay contact

Switching relays

85   Output, actuator (end of winding to ground or negative)

86   Input, actuator (start of winding)

86a Start of winding or 1st winding

86b Winding tap or 2nd winding

Relay contact for break (NC) and changeover contacts

87   Input

87a Output 1 (NC side)

87b Output 2

87c Output 3

87z Input 1

87y Input 2

87x Input 3

Relay contact for make (NO) contact and changeover contacts

88   Input

88a Output 1

88b Output 2

88c Output 3

88z Input 1

88y Input 2

88x Input 3

Directional signals (turn signal flashers)

C   Indicator lamp 1

C2 Indicator lamp 2

C0 Main terminal connection for separate indicator circuits actuated by the turn signal switch

C3 Indicator lamp 3 (e.g., when towing two trailers)

L   Turn-signal lamps, left

R   Turn-signal lamps, right

DIN Standard 72 552 This standard applies to the terminal designations for circuits. The purpose of the terminal designation system is to enable accurate connection identification from conductors (wires) to various components when diagnosis and repair is necessary.

Examples of DIN standards for terminal designations are shown below:

1 Ignition coil primary

4 Ignition coils secondary

15 Ignition switched, on and start

30 Battery

+ 31 Ground

31b Switched Ground

50 Starter control

75/X Load Reduction/Ignition switched on only

17 **18**

16 **2**

4 **1**

J17 **3**

S3/3 S2/5 S3/5 S3/4 S3/2 S3/1

14a

5 **6**

S228/15A **7**

13 **8a**

J362

12 **15 (inset)**

11 **8b**

10 G6 G G32 G22 F1

ws = white
sw = black
ro = red
br = brown
gn = green
bl = blue
gr = grey
li = violet
ge = yellow

Color Codes

19

138 81 42 119 85

99 100 101 102 103 104 105 106 107 108 109 110 111 112

97-60061

6 **14b**

9

F1	-	Oil Pressure Switch
G	-	Sender for fuel gauge
10 — G6	-	Fuel Pump (FP)
G22	-	Speedometer Vehicle Speed Sensor (VSS)
G32	-	Engine Coolant Level (ECL) Sensor
J17	-	Fuel Pump (FP) Relay
5 — S228	-	Fuse 28 in fuse holder
T14	-	14-Pin Connector, in engine compartment, left

135 - Ground connection -2-, in instrument panel wiring harness

269 - Ground connector (sensor ground) -1-, in instrument panel wiring harness

504 - Threaded connection -1- (87) on the relay plate

A74 - wire connection (75x), in instrument panel wiring harness

A99 - Connector -1- (87), in instrument panel wiring harness

42 - Ground connection, beside steering column

81 - Ground connection -1-, in instrument panel wiring harness

85 - Ground connection -1-, in engine compartment wiring harness

119 - Ground connection -1-, in headlight wiring harness

Legend

Page Contents (from Wiring Diagram Table of Contents)

Edition number

Oil pressure switch, fuel pump (FP), fuel pump (FP) relay, engine coolant level sensor, speedomter vehicle speed sensor (VSS)

1. Relay location number
Indicates location on relay panel. See page 1 of individual wiring diagram for details.

2. Arrow
Indicates wiring circuit is continued on the previous and/or next page.

3. Connector designation - relay/control module on relay panel
Shows relay panel terminals with corresponding relay terminal.
For example: 17/30 equals terminal 30 of relay connects to terminal 17 of central relay panel.

4. Threaded pin on relay panel
White circle shows a threaded removable connection.

5. Fuse designation
For example: S228 equals Fuse 28, 15 amps, in fuse holder.

6. Reference of wire continuation (current track number)
Number in frame indicates current track where wire is continued (see page 3 for example).

7. Wire connection designation in wiring harness
Location of wire connections are indicated in the legend.

8a. Terminal designation on a multipoint connector
8b. Terminal designation on a component
Designation which appears on the actual component and/or terminal number of a multi-point connector.

9. Ground connection designation in wire harness
Locations of ground connections are indicated in legend.

10. Component designation
Use legend at bottom of page to identify the component code.

11. Component symbols
A graphical representation of a component type. See Appendix A, page 35.

12. Wire cross section size (in mm^2) and wire colors
Abbreviations are explained in the color chart beside the wiring diagram.

13. Component symbol with open drawing side
Indicated component is continued on another wiring diagram. The number of the corresponding wiring diagram can be found in the table of contents.

14. Internal connections (thin lines)
These connections are not wires. Internal connections are current carrying and are listed to allow tracing of current flow inside components and wiring harness.
a. Internal Harness Splice (Welded Connection)
b. Physical Contact (Mounted to engine)

15. Reference of continuation of wire to component (inset)
For example: Control module for anti-theft immobilizer J362 on 6-pin connector terminal 2.

16. Central Relay panel connectors
Shows wiring of multi-point or single connectors on central relay panel.
For example: S3/3 equals Multi-point connector S3, terminal 3.

17. Reference of internal connection continuation
Letters indicate where connection continues on previous and/or next page.

18. Central Relay Panel

19. Ground Path
ex.: from welded harness connection 135 to welded harness connection 81 to welded harness connection 42.
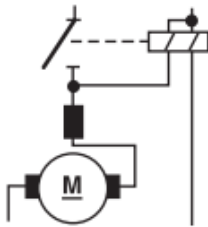
Battery
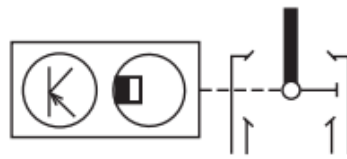
Distributor
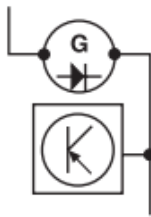(electrical)

Thermally
operated
switch

Starter

Spark plug
connector
and plug

Push-button switch
(manually operated)

Generator

Glow plug
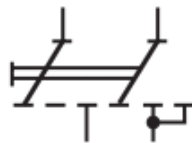heater element

Mechanically
operated
switch

Ignition coil

Manually
operated
switch

Pressure
operated
switch

Multiple switch
(manually operated)

Heater element
(temperature dependent)

SSP 8730/02

Diode

Zener diode

Diode
(light sensitive)
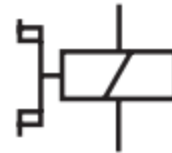
Light bulb

Light bulb
(dual filament)

LED

Interior light

Instrument
(gauge)

Rear window defogger
heat element

Cigarette
lighter

Solenoid valve

Magnetic clutch

Wire connection
in wiring harness

Resistance wire

Shield wire

SSP 8730/03
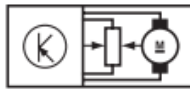
Control motor,
headlight range
adjustment

Digital clock

Antenna with
electronic antenna
amplifier
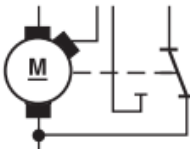
Wiper motor
(2-speed)

Multifunction
indicator
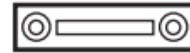
Radio
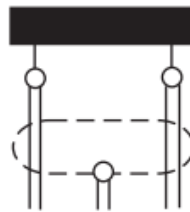
Crankshaft
position sensor

Airbag spiral
spring

Heated oxygen
sensor
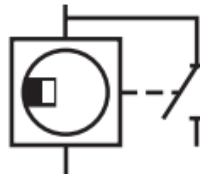
Camshaft
position sensor

Speed sensor

Analog clock

Horn

Speaker

ws = white
sw = black
ro = red
br = brown
gn = green
bl = blue
gr = grey
li = lilac
ge = yellow

97-26071
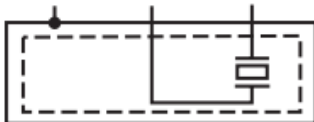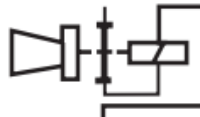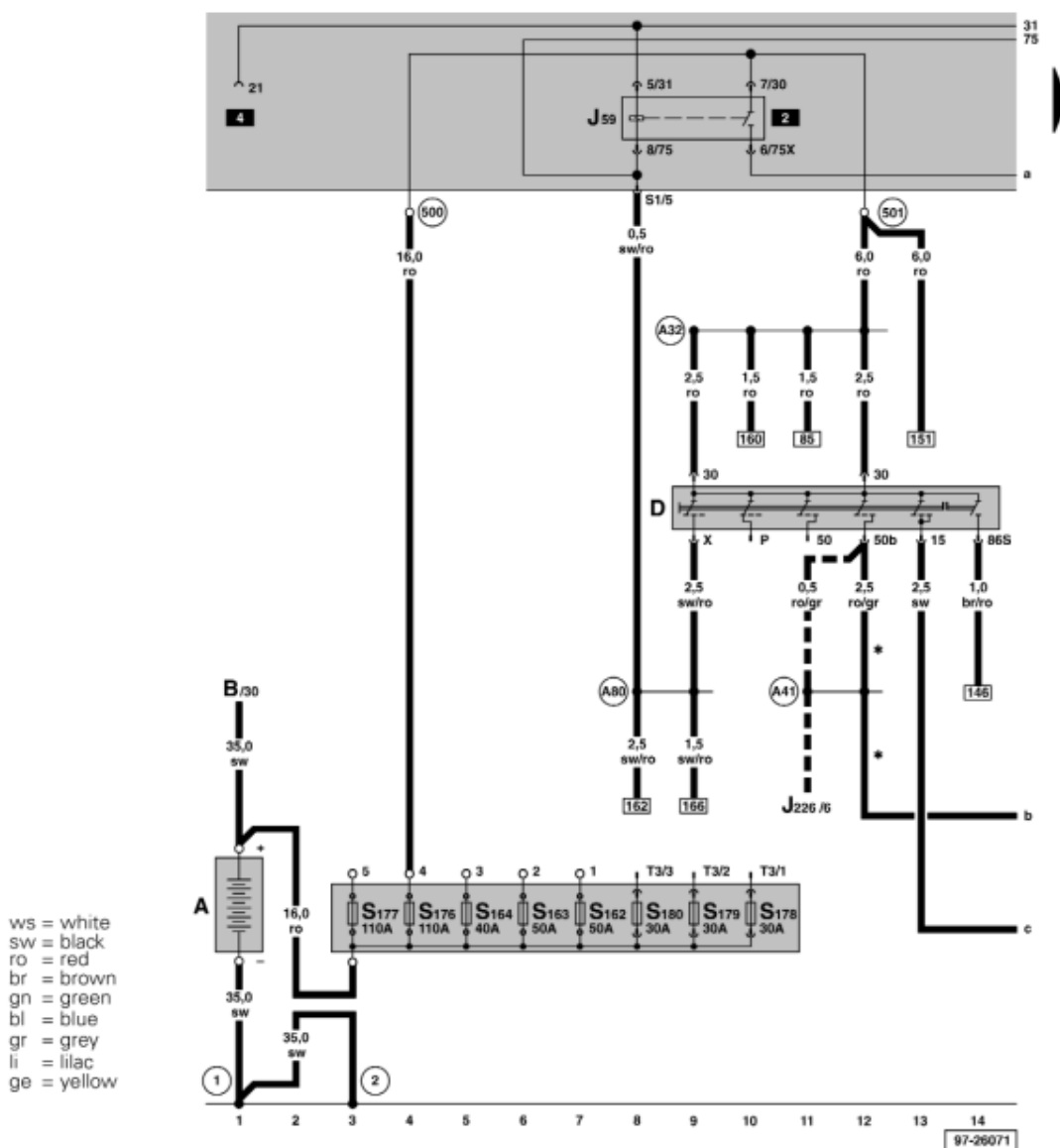
A - Battery
B - Starter
D - Ignition/Starter Switch
J59 - Load Reduction Relay
J226 - Park/Neutral Position (PNP) Relay
S162 - Fuse -1- (30) in fuse bracket/battery
S163 - Fuse -2- (30) in fuse bracket/battery
S164 - Fuse -3- (30) in fuse bracket/battery
S176 - Fuse -4- (30) in fuse bracket/battery
S177 - Fuse -5- (30) in fuse bracket/battery
S178 - Fuse -6- (30) in fuse bracket/battery
S179 - Fuse -7- (30) in fuse bracket/battery
S180 - Fuse -8- (30) in fuse bracket/battery
T3 - 3-Pin Connector

(1) - Ground strap, battery to body

(2) - Ground strap, transmission to body

(500) - Threaded connection -1- (30) on the relay plate

(501) - Threaded connection -2- (30) on the relay plate

(A32) - Plus connection (30), in instrument panel wiring harness

(A41) - Plus connection (50), in instrument panel wiring harness (gasoline engine only)

(A80) - Connector -1- (X) in instrument panel wiring harness

* - Manual transmission only

--- Automatic transmission only

Wiring Diagram

The Beetle

Interior and exterior lighting (NAR)
from April 2011

Wiring Diagram

The Beetle

Terminal 15 power supply relay, Vehicle electrical system control module

A	Battery
C	Generator
J329	Terminal 15 power supply relay
J519	Vehicle electrical system control module
J935	Converter box
SA1	Fuse 1 (on fuse panel A)
SA4	Fuse 4 (on fuse panel A)
SB9	Fuse 9 (on fuse panel B)
SB20	Fuse 20 (on fuse panel B)
SB28	Fuse 28 (on fuse panel B)
SB29	Fuse 29 (on fuse panel B)
SB30	Fuse 30 (on fuse panel B)
T9i	9-pin connector
T10e	10-pin connector
T73a	73-pin connector

367 = Ground connection 2 (in main wiring harness)

507 = Terminal 30 threaded connection (on battery fuse holder)

A2 = Positive connection (15) (in instrument panel wiring harness)

A32 = Positive connection (30) (in instrument panel wiring harness)

* = Depending on equipment

ws	= white		
sw	= black		
ro	= red		
rt	= red		
br	= brown		
gn	= green		
bl	= blue		
gr	= grey		
li	= lilac		
vi	= lilac		
ge	= yellow		
or	= orange		
rs	= pink		

Terminal 15 power supply relay 2

J681	Terminal 15 power supply relay 2
J935	Converter box
SC	Fuse panel C
SC6	Fuse 6 (on fuse panel C)
SC7	Fuse 7 (on fuse panel C)
SC13	Fuse 13 (on fuse panel C)
SC15	Fuse 15 (on fuse panel C)
SC39	Fuse 39 (on fuse panel C)
T9k	9-pin connector
T10e	10-pin connector

367 — Ground connection 2 (in main wiring harness)

602 — Ground connection in left front footwell

A2 — Positive connection (15) (in instrument panel wiring harness)

A12 — Positive connection 75a (in instrument panel wiring harness)

A32 — Positive connection (30) (in instrument panel wiring harness)

A83 — Daytime running lamps connection (in instrument panel wiring harness)

A98 — Positive connection 4 (30) (in instrument panel wiring harness)

A224 — Positive connection 2 (58) (in instrument panel wiring harness)

* — Only for vehicles with daytime running lamps
*2 — from December 2011
*3 — through December 2011

ws	=	white
sw	=	black
ro	=	red
rt	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	lilac
vi	=	lilac
ge	=	yellow
or	=	orange
rs	=	pink

The Beetle

Vehicle electrical system control module, Terminal 75 power supply relay 1, Left front fog lamp bulb

J285	Instrument cluster control module
J519	Vehicle electrical system control module
J680	Terminal 75 power supply relay 1
L22	Left front fog lamp bulb
SC	Fuse panel C
SC18	Fuse 18 (on fuse panel C)
SC19	Fuse 19 (on fuse panel C)
SC31	Fuse 31 (on fuse panel C)
SC32	Fuse 32 (on fuse panel C)
SC34	Fuse 34 (on fuse panel C)
SC55	Fuse 55 (on fuse panel C)
T9m	9-pin connector
T32c	32-pin connector
T73a	73-pin connector
T73b	73-pin connector

- ⑳ 376 — Ground connection 11 (in main wiring harness)
- Ⓐ A98 — Positive connection 4 (30) (in instrument panel wiring harness)
- Ⓑ B10 — Positive connection (30) (in light switch wiring harness)
- Ⓑ B141 — Positive connection 1 (56a) (in interior wiring harness)
- Ⓑ B167 — Connection 56b (in interior wiring harness)

ws	=	white
sw	=	black
ro	=	red
rt	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	lilac
vi	=	lilac
ge	=	yellow
or	=	orange
rs	=	pink

Wiring Diagram

04.2016
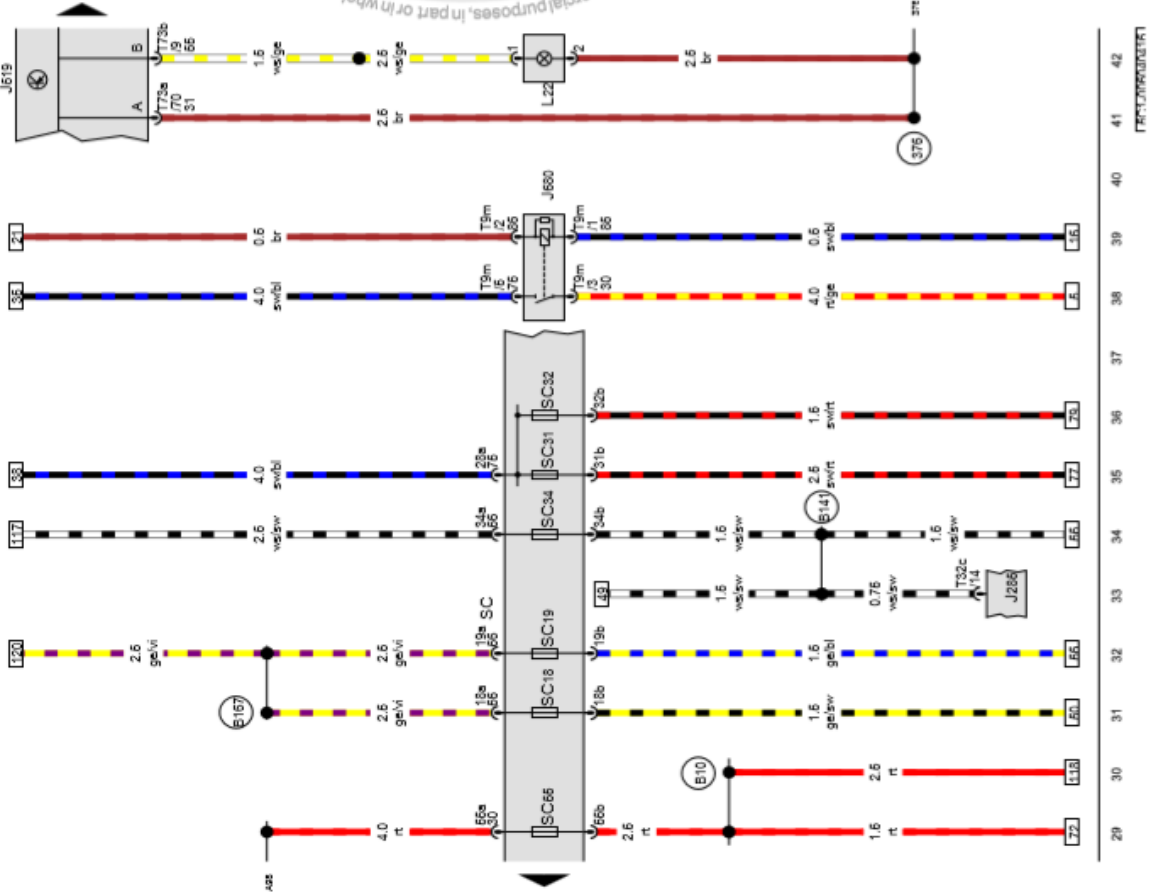
J519 — Vehicle electrical system control module, Left daytime running lamp bulb, Right daytime running lamp bulb, Left position lamp bulb, Right position lamp bulb, Left front turn signal bulb, Left low beam headlamp bulb, Left high beam headlamp bulb, Right low beam headlamp bulb, Right high beam headlamp bulb, Left front side marker lamp bulb

J519 — Vehicle electrical system control module
L174 — Left daytime running lamp bulb
L175 — Right daytime running lamp bulb
M1 — Left position lamp bulb
M3 — Right position lamp bulb
M5 — Left front turn signal bulb
M29 — Left low beam headlamp bulb
M30 — Left high beam headlamp bulb
M31 — Right low beam headlamp bulb
M32 — Right high beam headlamp bulb
M33 — Left front side marker lamp bulb
M34 — Right front side marker lamp bulb
T10i — 10-pin connector
T10j — 10-pin connector
T73a — 73-pin connector
T73b — 73-pin connector

376 — Ground connection 11 (in main wiring harness)
378 — Ground connection 13 (in main wiring harness)
381 — Ground connection 16 (in main wiring harness)
665 — Ground connection on left headlamp
A6 — Left turn signal positive connection (in instrument panel wiring harness)
A84 — Connection 58L (in instrument panel wiring harness)
A85 — Connection 58R (in instrument panel wiring harness)
* — Only for vehicles with daytime running lamps

ws = white
sw = black
ro = red
rt = red
br = brown
gn = green
bl = blue
gr = grey
li = lilac
vi = lilac
ge = yellow
or = orange
rs = pink

The Beetle
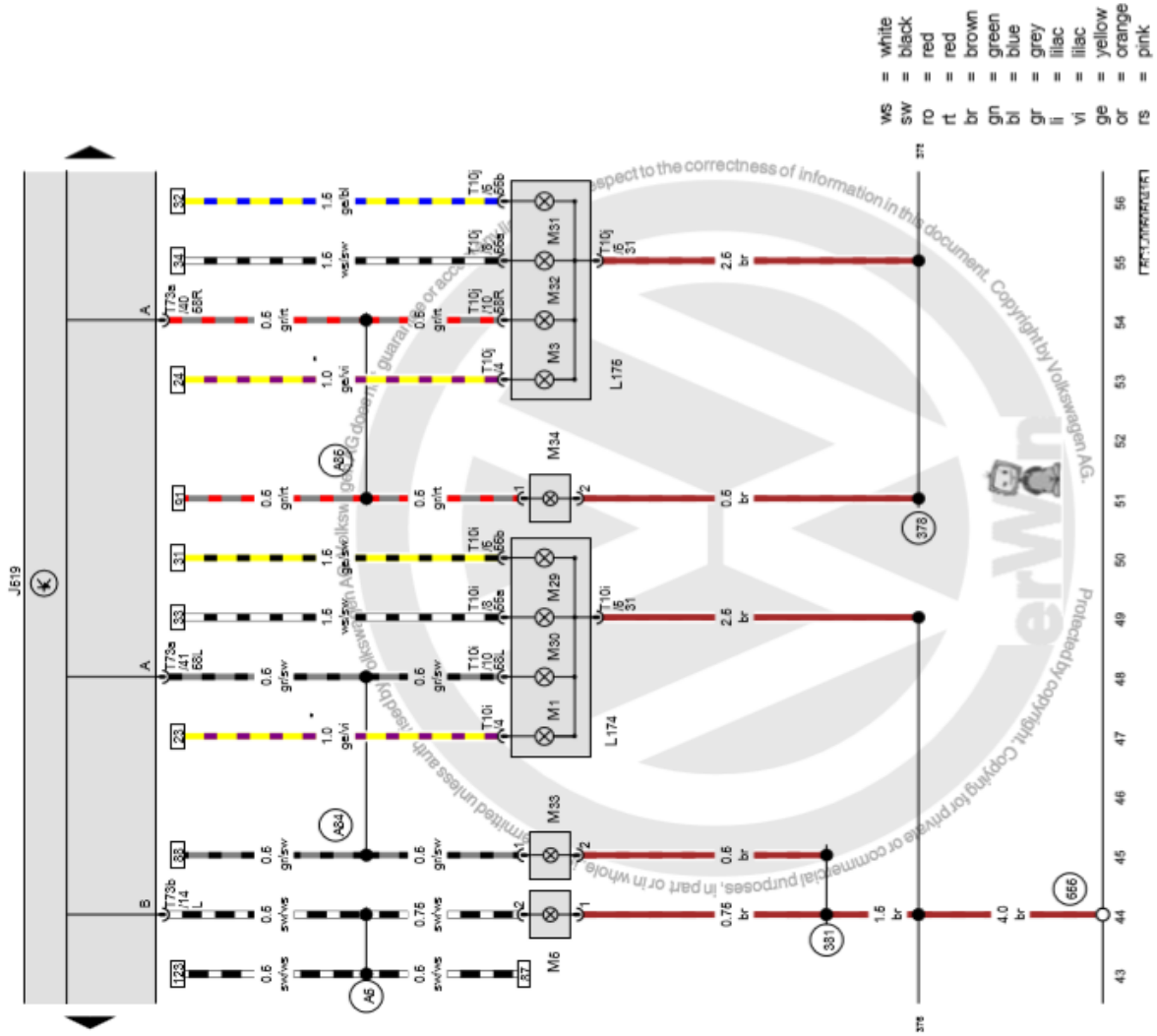
Instrument panel and switch illumination dimmer switch,
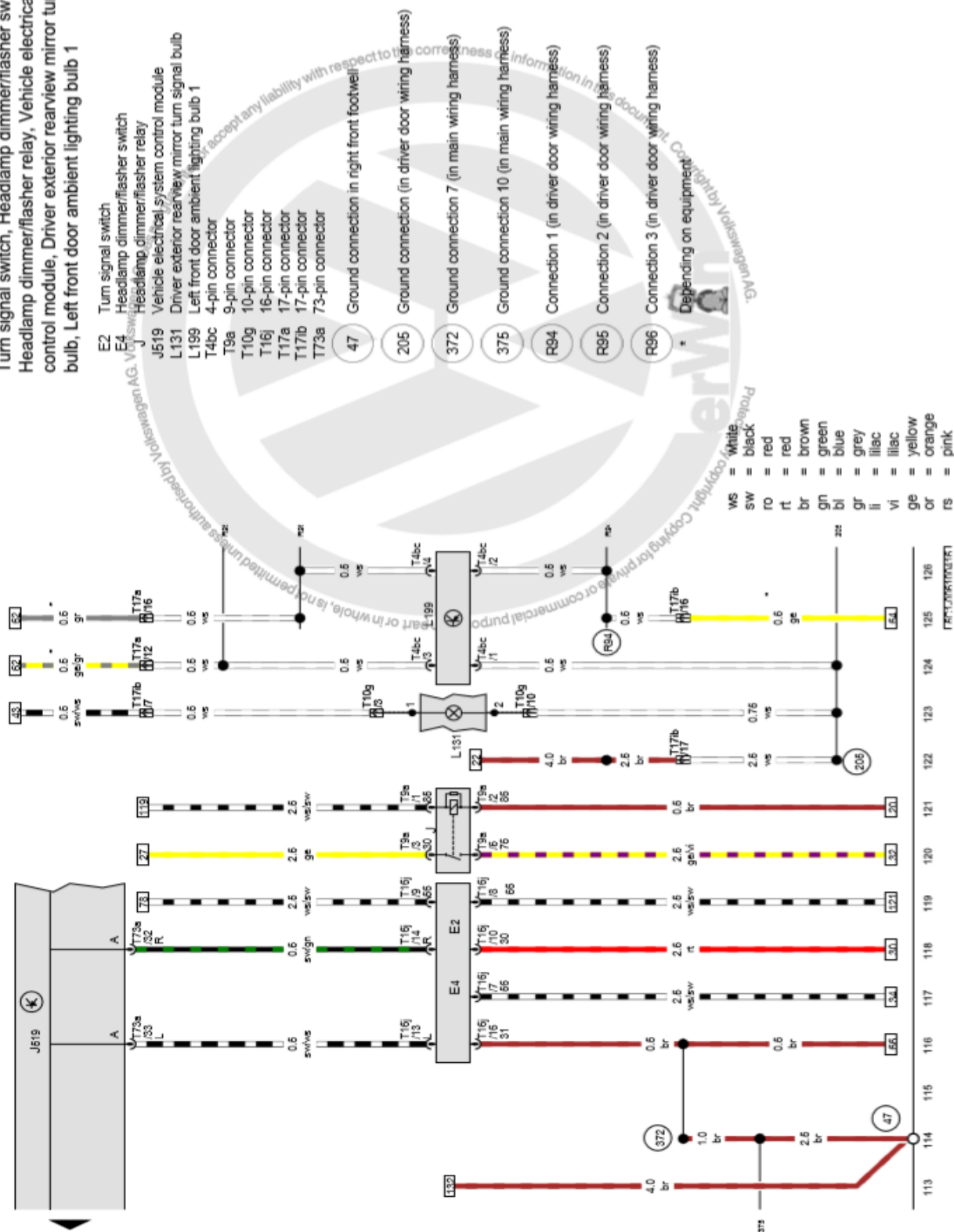Vehicle electrical system control module, Right front fog
lamp bulb, Right front turn signal bulb

- E20   Instrument panel and switch illumination dimmer switch
- J519 Vehicle electrical system control module
- J967 Sill panel strip ambient lighting control module
- L23   Right front fog lamp bulb
- L76   Push button illumination bulb
- M7   Right front turn signal bulb
- T8e   8-pin connector
- T16   16-pin connector
- T73b 73-pin connector

- (378) Ground connection 13 (in main wiring harness)
- (656) Ground connection on right headlamp
- (A5)   Right turn signal positive connection (in instrument panel wiring harness)
- (A19) Connection 58d (in instrument panel wiring harness)
- (A49) Connection 1 (in instrument panel wiring harness)
- (A138) Connection 2 (in instrument panel wiring harness)
- (A192) Positive connection 3 (15a) (in instrument panel wiring harness)

- *   Depending on equipment
- *2   through July 2011
- *3   from August 2011
- *4   from December 2011
- *5   through December 2011

- ws = white
- sw = black
- ro = red
- rt = red
- br = brown
- gn = green
- bl = blue
- gr = grey
- li = lilac
- vi = lilac
- ge = yellow
- or = orange
- rs = pink
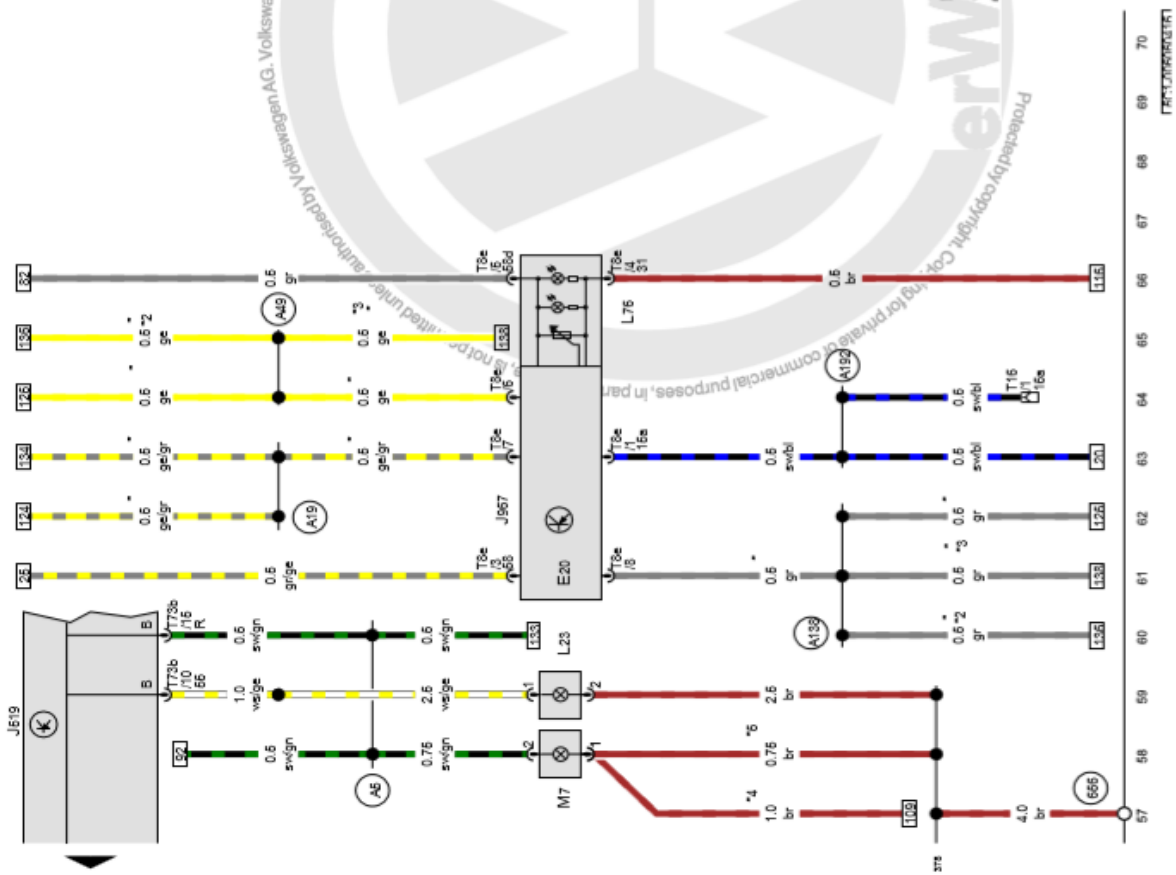
Light switch, Fog lamp switch, Vehicle electrical system control module

E1   Light switch
E7   Fog lamp switch
J519 Vehicle electrical system control module
L9   Headlamp switch illumination bulb
T3g   3-pin connector
T17d 17-pin connector
T73a 73-pin connector
T73b 73-pin connector
U1   Cigarette lighter

44   Ground connection on A-pillar, lower left
86   Ground connection 1 (in rear wiring harness)
B238 Positive connection 2 (58b) (in interior wiring harness)

ws = white
sw = black
ro = red
rt = red
br = brown
gn = green
bl = blue
gr = grey
li = lilac
vi = lilac
ge = yellow
or = orange
rs = pink

The Beetle

Wiring Diagram
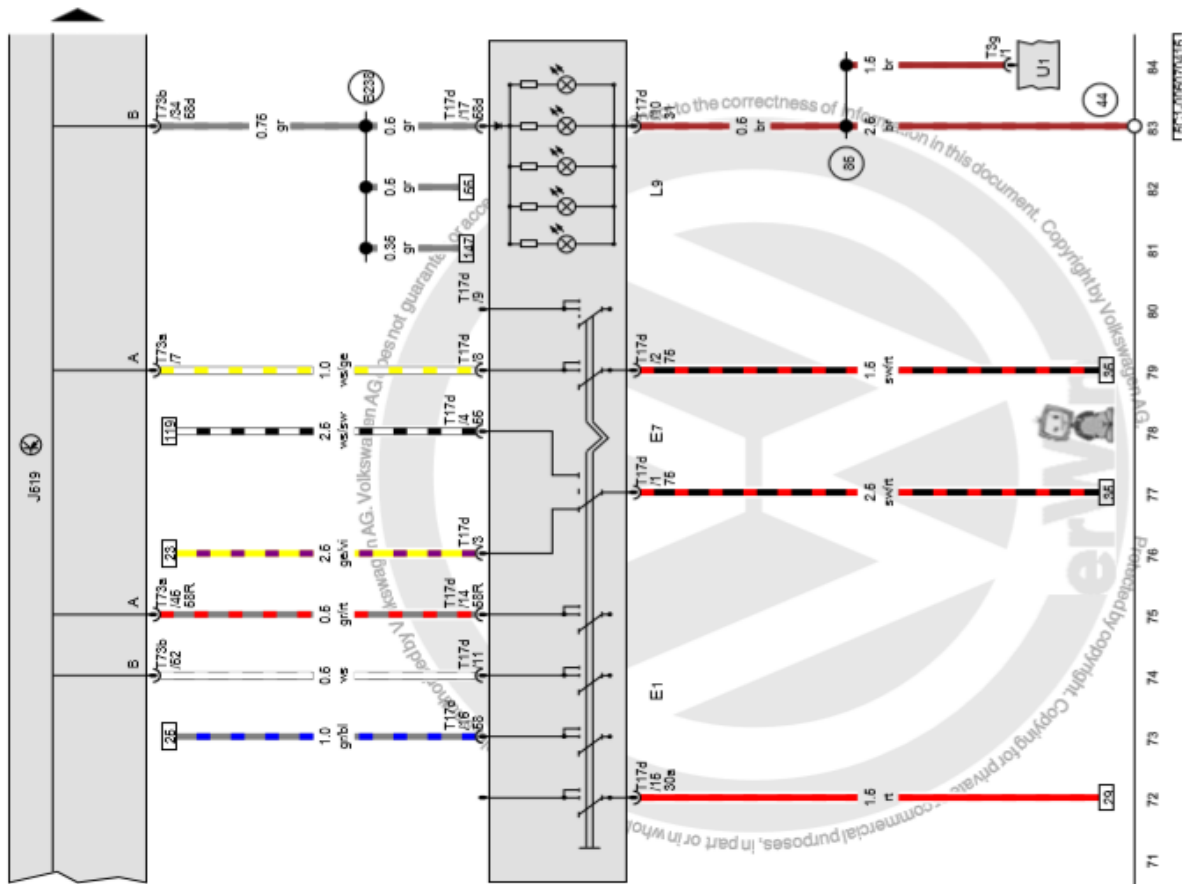
Back-up lamp switch, Vehicle electrical system control module, Right tail lamp bulb, Left tail lamp bulb, Left rear turn signal bulb, Right rear turn signal bulb, Left brake lamp bulb, Right brake lamp bulb, Left back-up lamp bulb, Right back-up lamp bulb, High-mounted brake lamp bulb

F4	Back-up lamp switch
G65	High pressure sensor
J519	Vehicle electrical system control module
M2	Right tail lamp bulb
M4	Left tail lamp bulb
M6	Left rear turn signal bulb
M8	Right rear turn signal bulb
M9	Left brake lamp bulb
M10	Right brake lamp bulb
M16	Left back-up lamp bulb
M17	Right back-up lamp bulb
M25	High-mounted brake lamp bulb
T3c	3-pin connector
T5n	5-pin connector
T5o	5-pin connector
T73b	73-pin connector
87	Ground connection 2 (in rear wiring harness)
662	Ground connection in left rear side panel
663	Ground connection in right rear side panel
A20	Positive connection 15a (in instrument panel wiring harness)
A87	Back-up lamp connection (in instrument panel wiring harness)
A89	Connection 54 (in instrument panel wiring harness) 2
B182	Connection RF (in interior wiring harness)
*	from December 2011
*2	through December 2011

ws = white
sw = black
ro = red
rt = red
br = brown
gn = green
bl = blue
gr = grey
li = lilac
vi = lilac
ge = yellow
or = orange
rs = pink

The Beetle

Wiring Diagram
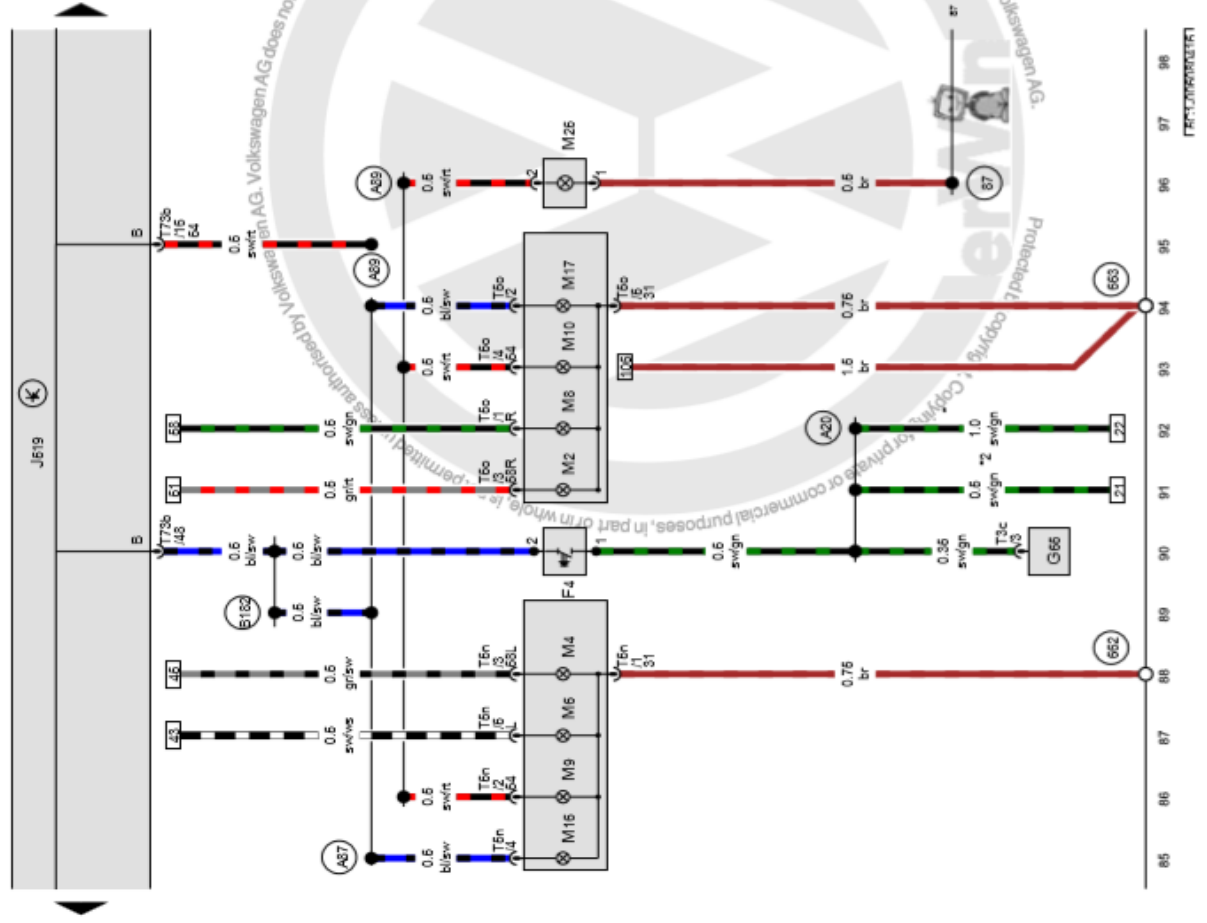
Emergency flasher button, Brake lamp switch, Luggage compartment lamp switch, Vehicle electrical system control module, Left license plate lamp, Right license plate lamp

E229	Emergency flasher button
F	Brake lamp switch
F5	Luggage compartment lamp switch
G	Fuel level sensor
J104	ABS control module
J519	Vehicle electrical system control module
K6	Emergency flasher indicator lamp
T3a	3-pin connector
T4f	4-pin connector
T4y	4-pin connector
T5b	5-pin connector
T6bq	6-pin connector
T47	47-pin connector
T73a	73-pin connector
X4	Left license plate lamp
X5	Right license plate lamp

- 87 — Ground connection 2 (in rear wiring harness)
- 195 — Ground connection (in rear door contact switch wiring harness)
- 375 — Ground connection 10 (in main wiring harness)
- 382 — Ground connection 17 (in main wiring harness)
- 383 — Ground connection 18 (in main wiring harness)
- 437 — Ground connection (in license plate lamp wiring harness)
- 690 — Ground connection on roof frame, center rear
- B131 — Connection 54 (in interior wiring harness)
- W41 — Positive connection (58) (in license plate lamp wiring harness)
- * — from December 2011
- *2 — through December 2011

ws = white
sw = black
ro = red
rt = red
br = brown
gn = green
bl = blue
gr = grey
li = lilac
vi = lilac
ge = yellow
or = orange
rs = pink

The Beetle

Wiring Diagram
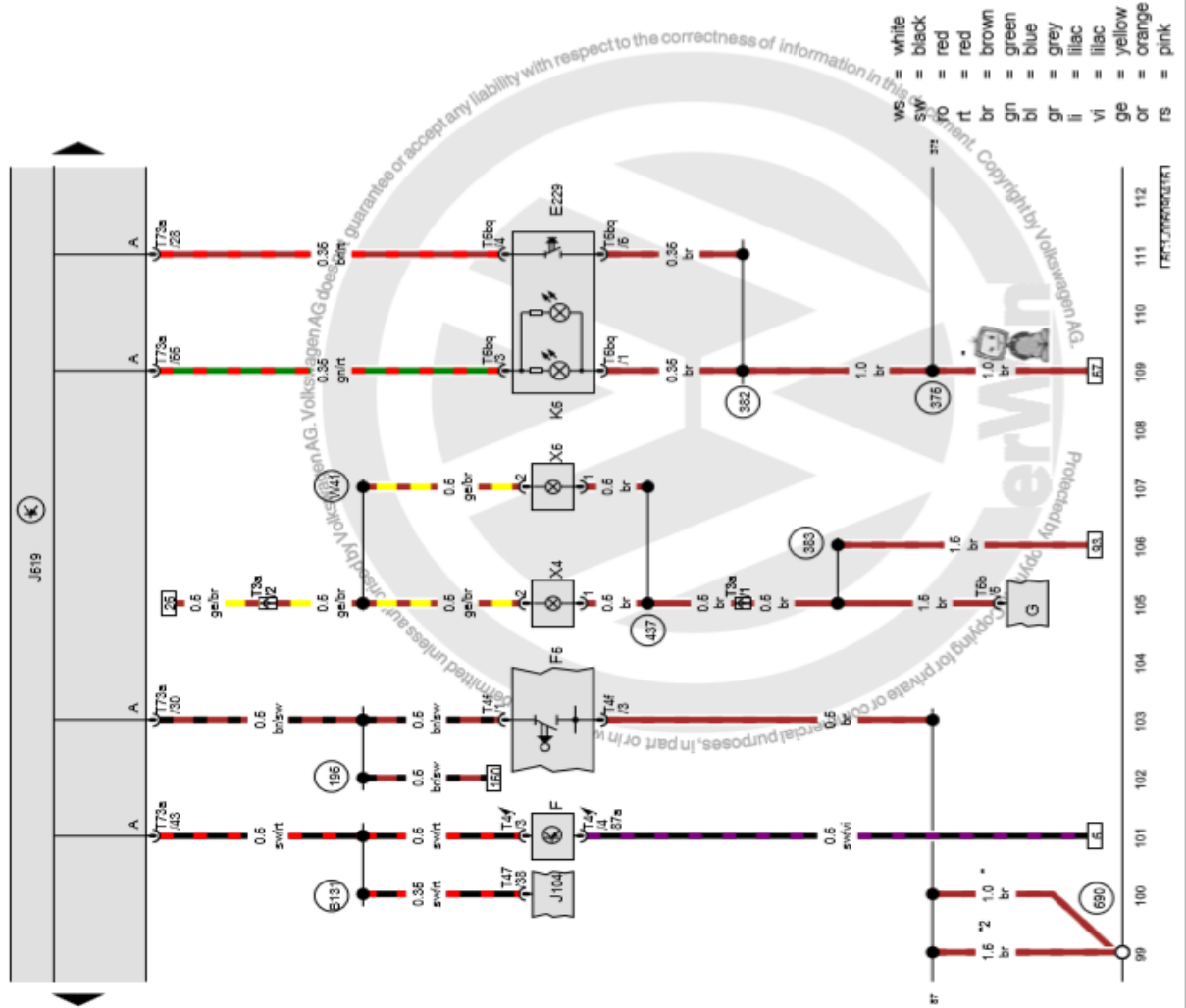
Turn signal switch, Headlamp dimmer/flasher switch,
Headlamp dimmer/flasher switch, Vehicle electrical system
control module, Driver exterior rearview mirror turn signal
bulb, Left front door ambient lighting bulb 1

E2	Turn signal switch
E4	Headlamp dimmer/flasher switch
J	Headlamp dimmer/flasher relay
J519	Vehicle electrical system control module
L131	Driver exterior rearview mirror turn signal bulb
L199	Left front door ambient lighting bulb 1
T4bc	4-pin connector
T9a	9-pin connector
T10g	10-pin connector
T16j	16-pin connector
T17a	17-pin connector
T17fb	17-pin connector
T73a	73-pin connector
47	Ground connection in right front footwell
205	Ground connection (in driver door wiring harness)
372	Ground connection 7 (in main wiring harness)
375	Ground connection 10 (in main wiring harness)
R94	Connection 1 (in driver door wiring harness)
R95	Connection 2 (in driver door wiring harness)
R96	Connection 3 (in driver door wiring harness)
*	Depending on equipment

ws	=	white
sw	=	black
ro	=	red
rt	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	lilac
vi	=	lilac
ge	=	yellow
or	=	orange
rs	=	pink

Front passenger exterior rearview mirror turn signal bulb,
Right front door ambient lighting bulb 1, Left front door
ambient lighting bulb 2, Right front door ambient lighting
bulb 2

L132 — Front passenger exterior rearview mirror turn signal bulb
L200 — Right front door ambient lighting bulb 1
L203 — Left front door ambient lighting bulb 2
L204 — Right front door ambient lighting bulb 2
T4bd — 4-pin connector
T4be — 4-pin connector
T4bf — 4-pin connector
T10h — 10-pin connector
T17b — 17-pin connector
T17c — 17-pin connector

(205) — Ground connection (in driver door wiring harness)
(206) — Ground connection (in front passenger door wiring harness)
(R94) — Connection 1 (in driver door wiring harness)
(R95) — Connection 2 (in driver door wiring harness)
(R96) — Connection 3 (in driver door wiring harness)
(R98) — Connection 1 (in front passenger door wiring harness)
(R99) — Connection 2 (in front passenger door wiring harness)
(R100) — Connection 3 (in front passenger door wiring harness)

* — through July 2011
*2 — Depending on equipment
*3 — from August 2011

ws = white
sw = black
ro = red
rt = red
br = brown
gn = green
bl = blue
gr = grey
li = lilac
vi = lilac
ge = yellow
or = orange
rs = pink
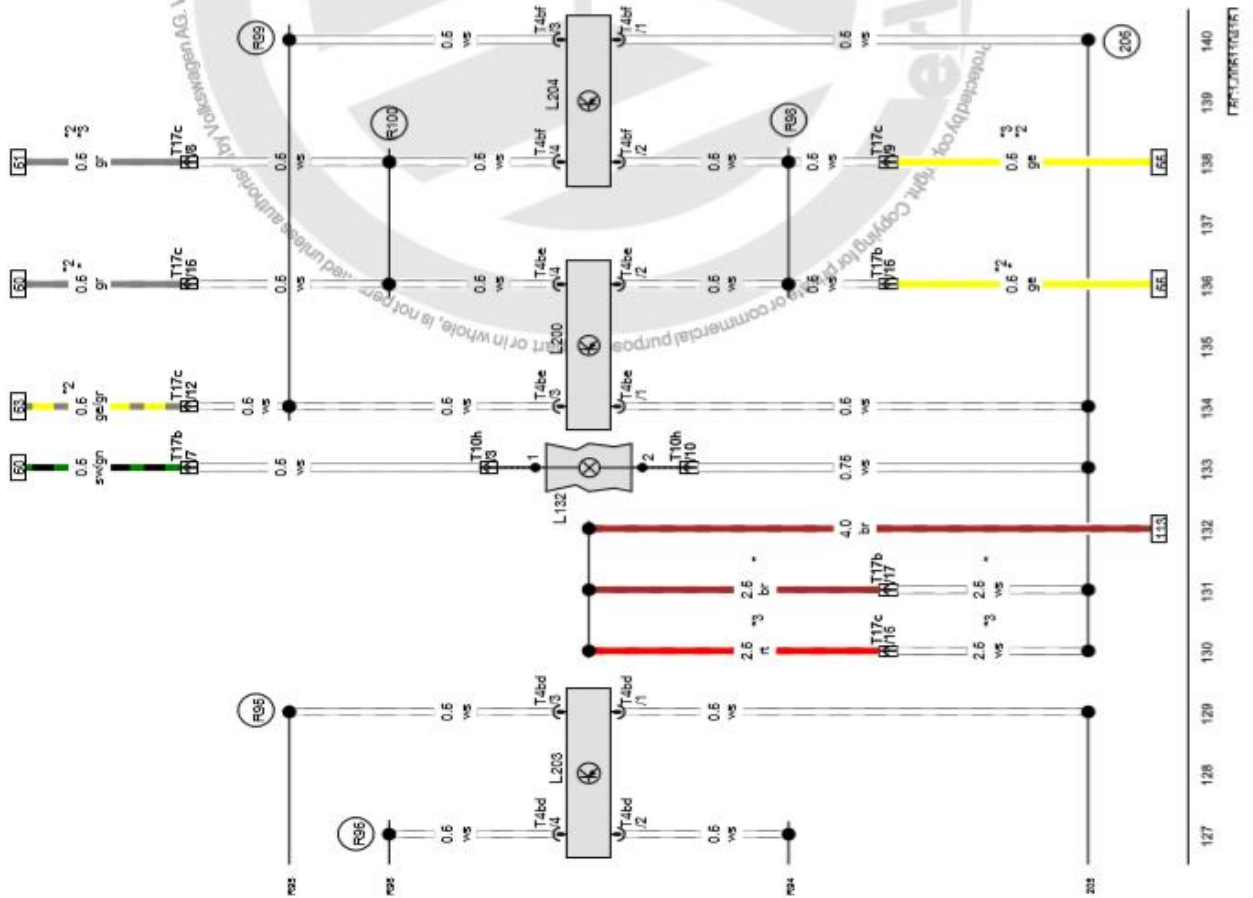
Vehicle electrical system control module, Front interior
lamp, Luggage compartment lamp, Front passenger vanity
mirror lamp, Driver vanity mirror lamp, Left center reading
lamp, Right center reading lamp

E508 Cellular telephone preparation control head
F147 Driver vanity mirror lamp contact switch
F148 Front passenger vanity mirror lamp contact switch
J519 Vehicle electrical system control module
J682 Terminal 50 power supply relay
T2bs 2-pin connector
T2bt 2-pin connector
T2bu 2-pin connector
T2bv 2-pin connector
T6av 6-pin connector
T6b   6-pin connector
T9b   9-pin connector
T73a 73-pin connector
W1   Front interior lamp
W3   Luggage compartment lamp
W14   Front passenger vanity mirror lamp
W20   Driver vanity mirror lamp
W39   Left center reading lamp
W40   Right center reading lamp

402   Interior lighting ground connection (in interior wiring harness)

459   Ground connection 15 (in interior wiring harness)

B150 Positive connection 2 (30a) (in interior wiring harness)

B154 Connection TK (in interior wiring harness) 1

*   through December 2011
*2   from December 2011
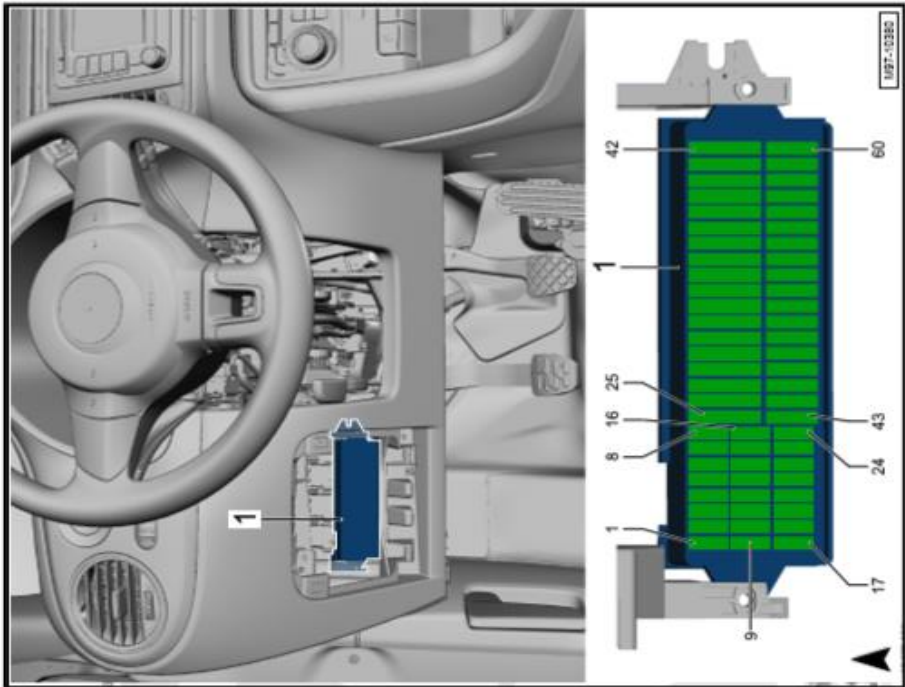
ws = white
sw = black
ro = red
rt = red
br = brown
gn = green
bl = blue
gr = grey
li = lilac
vi = lilac
ge = yellow
or = orange
rs = pink

pg. 23

The Beetle

Component Locations

1 - Fuse panel C -SC-

Fuse location	Designation in Wiring Diagram	Nominal Value	Function/Component	Terminal
F1	Not used	-		-
F2	Not used	-		-
F3	Fuse 3 (on fuse panel C) -SC3-	5 A	Instrument cluster control module -J285- (T32c/32)	30a
F4	Fuse 4 (on fuse panel C) -SC4-	5 A	Telephone Transceiver -R36- (T54/1)	30a
			Instrument cluster control module -J285- (T32c/13)	

Component Locations

Fuse location	Designation in Wiring Diagram	Nominal Value	Function/Component	Terminal
F5	Fuse 5 (on fuse panel C) -SC5-	10 A	Vehicle electrical system control module -J519- (T73a/6) Left rear fog lamp bulb -L46- (2)	55a
F6	Fuse 6 (on fuse panel C) -SC6-	10 A	Release button in rear lid handle -E234- (4) Rearview camera -R189- (T4ak/1)	30a
F7	Fuse 7 (on fuse panel C) -SC7-	5 A	Instrument panel and switch illumination dimmer switch -E20- (T8e/3) Left license plate lamp -X4- (2) Right License Plate Light -X5- (2)	58
F8	Fuse 8 (on fuse panel C) -SC8-	7.5 A	Windshield washer pump -V5- (1)	53c
F9	Fuse 9 (on fuse panel C) -SC9-	5 A	Airbag control module -J234- (T75/1), (T75/26), (T50/1), (T50/26) Front passenger airbag -disabled- indicator lamp -K145- (T4g/3)	15a
F10	Fuse 10 (on fuse panel C) -SC10-	10 A	Windshield wiper intermittent mode switch -E22- (T10m/3)	15a
F11	Not used	-	-	-
F12	Fuse 12 (on fuse panel C) -SC12-	5 A	Headlamp range control module -J431- (T26c/23)	15a
F13	Fuse 13 (on fuse panel C) -SC13-	5 A	Stop/Start system main switch -E101- (T6bx/4), (T6bx/2) Mirror folding switch -E263- (T10o/5) Tire pressure monitoring display button -E492- (T6an/4) Back-up lamp switch -F4- (1) High pressure sensor -G65- (T3c/3) Air quality sensor -G238- (T3an/1) Heater Control Module -J162- (T20c/19) Parking aid control module -J446- (T16m/1) Vehicle positioning system control module -J895- (T16n/1) Automatic dimming interior rearview mirror -Y7- (T6am/1) Left washer nozzle heater -Z20- (1) Right washer nozzle heater -Z21- (1)	15a
F14	Fuse 14 (on fuse panel C) -SC14-	10 A	Turn signal switch -E2- (T16j/1) tiptronic switch -F189- (T10s/9) Oil level thermal sensor -G266- (1) -GX22- (T10ak/3) ABS control module -J104- (T47/8) Instrument cluster control module -J285- (T32c/31) Power steering control module -J500- (T3ao/3) Steering column electronics control module -J527- (T16p/14)	15a

Fuse location	Designation in Wiring Diagram	Nominal Value	Function/Component	Terminal
			Voltage stabilizer -J532- (T12z/3) Data bus on board diagnostic interface -J533- (T20/14) Fuel pump control module -J538- (T10v/3) Selector lever sensor system control module -J587- (T10s/9) Engine control module -J623- (T91/50) [27] Positive crankcase ventilation heating element -N79- (1)[21]	
F15	Fuse 15 (on fuse panel C) -SC15-	5 A	Instrument panel and switch illumination dimmer switch -E20- (T8e/1) Mass airflow sensor -G70- (T5d/3)[13] (T5d/5)[4] (T3ar/2)[7] Engine sound generator control module -J943- (T12p/1)[29] Left headlamp beam adjustment motor -V48- (T10i/1) Right headlamp beam adjustment motor -V49- (T10j/1) 16-pin connector -T16- (T16/1), data link connector	15a
F16	Fuse 16 (on fuse panel C) -SC16-	5 A	Engine control module -J623- (T94/87)	15a
F17	Fuse 17 (on fuse panel C) -SC17-	10 A	Interior monitoring sensor -G273- (T4bz/4) Alarm horn -H12- (T3f/3)	30a
F18	Fuse 18 (on fuse panel C) -SC18-	15 A	Left low beam headlamp bulb -M29- [1]	56bl
F19	Fuse 19 (on fuse panel C) -SC19-	15 A	Right low beam headlamp bulb -M31- [1]	56br
F20	Fuse 20 (on fuse panel C) -SC20-	5 A	tiptronic switch -F189- (T10s/10) Heater Control Module -J162- (T20c/18) Automatic transmission control module -J217- (T52/3) Climatronic control module -J255- (T20c/20) A/C control module -J301- (T20c/19) Selector lever sensor system control module -J587- (T10s/10) Ignition switch key lock solenoid -N376- (T10d/10)	30a
F21	Fuse 21 (on fuse panel C) -SC21-	15 A	Vehicle electrical system control module -J519- (T73b/68) Ignition/starter switch -D- (T10d/1)	30a
F22	Fuse 22 (on fuse panel C) -SC22-	5 A	Vehicle positioning system control module -J895- (T16n/2) Converter box -J935- (T10e/7)	30a
F23	Fuse 23 (on fuse panel C) -SC23-	20 A	Rain/light recognition sensor -G397- (T3ae/1) Vehicle electrical system control module -J519- (T73b/39), (T73a/66) Telephone Transceiver -R36- (T54/1) 16-pin connector -T16- (T16/16), data link connector -GX22- (T10ak/1)	30a

Fuse location	Designation in Wiring Diagram	Nominal Value	Function/Component	Terminal
F24	Fuse 24 (on fuse panel C) -SC24-	10 A	Vehicle electrical system control module -J519- (T73a/64) Access/start authorization control module -J518- (T32d/3) Electronic steering column lock control module -J764- (T16s/2) Data bus on board diagnostic interface -J533- (T20/1)	30a
F25	Fuse 25 (on fuse panel C) -SC25-	25 A[32] 10 A	Multifunction transmission range switch -F125- (T10n/10) Automatic transmission control module -J217- (T52/27)[32] (T52/28)[32] DSG transmission Mechatronic -J743- (T25/10)[30] (T20/13)[31]	15a
F26	Not used	-		-
F27	Not used	-		-
F28	Not used	-		-
F29	Fuse 29 (on fuse panel C) -SC29-	5 A	Vehicle electrical system control module -J519- (T73b/51) Blocking diode -J29- (1)	75
F30	Fuse 30 (on fuse panel C) -SC30-	20 A	Cigarette lighter -U1- (T3g/2) 12 V socket -U5- (2)	75a
F31	Fuse 31 (on fuse panel C) -SC31-	30 A	Light switch -E1- (T17d/1)	75
F32	Fuse 32 (on fuse panel C) -SC32-	15 A	Fog lamp switch -E7- (T17d/2)	75a
F33	Fuse 33 (on fuse panel C) -SC33-	40 A	Heater Control Module -J162- (T5/5) A/C control module -J301- (T5/5)	75a
F34	Fuse 34 (on fuse panel C) -SC34-	10 A 15 A[35]	Instrument cluster control module -J285- (T32c/14) Vehicle electrical system control module -J519- (T73a/62) Left high beam headlamp bulb -M30- (T10i/8) Right high beam headlamp bulb -M32- (T10j/8) Left front headlamp -MX1- (T14c/11) Right front headlamp -MX2- (T14c/11)	56al
F35	Fuse 35 (on fuse panel C) -SC35-	1 A	Steering column electronics control module -J527- (T16p/1)	15a
F36	Fuse 36 (on fuse panel C) -SC36-	30 A	Vehicle electrical system control module -J519- (T73a/16)	30a
F37	Fuse 37 (on fuse panel C) -SC37-	5 A	Left daytime running lamp bulb -L174- (T10i/4)	DRL
F38	Fuse 38 (on fuse panel C) -SC38-	5 A	Right daytime running lamp bulb -L175- (T10j/4)	DRL
F39	Fuse 39 (on fuse panel C) -SC39-	30 A	Headlamp dimmer/flasher relay -J- (T9a/3)	30
F40	Not used	-		-
F41	Not used	-		-
F42	Not used	-		-

Fuse location	Designation in Wiring Diagram	Nominal Value	Function/Component	Terminal
F43	Fuse 43 (on fuse panel C) -SC43-	30 A	Front passenger door control module -J387- (T16d/16)	30a
F44	Fuse 44 (on fuse panel C) -SC44-	30 A	Vehicle electrical system control module -J519- (T73b/67)	30a
F45	Fuse 45 (on fuse panel C) -SC45-	30 A	Driver door control module -J386- (T16c/16)	30a
F46	Not used	-		-
F47	Fuse 47 (on fuse panel C) -SC47-	20 A	Fuel Pump (FP) Relay -J17- (3A) Electric fuel pump relay 2 -J49- (3B)17) Fuel pump control module -J538- (T10w/1)	30a
F48	Fuse 48 (on fuse panel C) -SC48-	30 A	Vehicle electrical system control module -J519- (T73b/13), (T73b/11)	30a
F49	Fuse 49 (on fuse panel C) -SC49-	40 A	Fresh Air Blower Control Module -J126- (T6l/4)	30a
F50	Fuse 50 (on fuse panel C) -SC50-	30 A	Front seat heating control module -J774- (T8v/3), (T8v/6)	30a
F51	Fuse 51 (on fuse panel C) -SC51-	30 A	Sunroof control module -J245- (T10f/10)	30a
F52	Fuse 52 (on fuse panel C) -SC52-	20 A	Vehicle electrical system control module -J519- (T73a/63)	30a
F53	Fuse 53 (on fuse panel C) -SC53-	20 A	Vehicle electrical system control module -J519- (T73a/73)	30a
F54	Not used	-		-
F55	Fuse 55 (on fuse panel C) -SC55-	20 A	Light switch -E1- (T17d/15) Headlamp dimmer/flasher switch -E4- (T16j/10)	30
F56	Not used	-		-
F57	Fuse 57 (on fuse panel C) -SC57-	25 A	Radio/navigation display unit control module -J503- (T16b/15), (T16b/16) Radio -R- (T16b/15)(T16b/16)	30a
F58	Not used	-		-
F59	Not used	-		-
F60	Not used	-		-

1)Not for models with DSG transmission
4)Engine code CJAA
7)Engine code CAYC
13)Engine codes CBFA, CCTA, CCZA
17)Engine codes CFFB, CJAA
21)Engine code CFFB
27)Engine codes CPLA, CPLB, CPPA
30)For vehicles with DSG transmission 02E

The Beetle

Component Locations

1.6.1 73-pin (a)

Black connector

73-pin connector -T73a-

Cavity	Function
1	. . .
2	Left headlight dipped beam bulb -M29-, Front left headlight -MX1-
3	. . .
4	Connection 1 (DCt), in interior wiring harness
5	Right LED module for daytime running light and side light -L177-, Front right headlight -MX2-
6	Connection (rear fog light), in main wiring harness
7	Rear fog light switch -E18-
8	. . .
9	
10	Rear lid release motor output signal
11	Central locking motor "lock" output signal for all doors
12	Connection 2 (central locking), in interior wiring harness
13	Central locking motor "Safe" output signal for all doors
14	Terminal 31
15	Connection 3 (central locking), in interior wiring harness, Driver door central locking motor -V56-
16	Terminal 30
17	. . .
18	. . .
19	Driver side central locking lock unit -F220-

Cavity	Function
38	. . .
39	Connection (mirror adjustment/heating), in dash panel wiring harness
40	Connection (58R), in dash panel wiring harness
41	Connection (58L), in dash panel wiring harness
42	Electronic ignition lock -D9-, Control unit for electronic steering column lock -J764-
43	Connection (54), in interior light wiring harness
44	Supply input signal (15) for ignition/starter switch
45	Light switch -E1-
46	. . .
47	Entry and start authorisation control unit -J518-
48	. . .
49	. . .
50	. . .
51	
52	Fuel supply relay output signal
53	Alarm horn relay -J641-
54	Terminal 75 voltage supply relay 1 -J680- [1], Positive connection (75a) in dash panel wiring harness [2]
55	Converter box -J935-
56	Hazard warning lights button -E229-

Cavity	Function
20	Front passenger side central locking lock unit -F221-
21	Front passenger side central locking lock unit -F221-
22	Driver door central locking motor -V56-
23	Rear lid handle release button input signal
24	Driver side central locking lock unit -F220-
25	Connection 1 (central locking), in main wiring harness, Driver side interior locking button for central locking system -E308-
26	. . .
27	Hood contact switch -F266-
28	Hazard warning lights button -E229- Front passenger side central locking lock unit -F221- [1]
29	Horn plate input signal
30	Ground connection, in rear door switch wiring harness
31	Rear lid electric opener motor -V254-
32	Right turn signal switch input signal
33	Left turn signal switch input signal
34	. . .
35	. . .
36	Heated front seats control unit -J774-
37	. . .

Cavity	Function
57	Deactivation button for vehicle inclination sender -E360-
58	Central locking SAFELOCK function warning lamp -K133-
59	Connection 2 (central locking), in main wiring harness
60	Air conditioning system control unit -J301- [3] , Heater control unit -J162- [4]
61	. . .
62	Positive connection 1 (56a), in interior wiring harness
63	Terminal 30
64	Positive connection (30a), in dash panel wiring harness
65	Positive connection 2 (30a), in interior wiring harness
66	Positive connection 3 (30a) in dash panel wiring harness
67	. . .
68	Terminal 30
69	Wiper motor control unit -J400-
70	Terminal 31
71	Wiper motor control unit -J400-
72	Connection (dual tone horn), in dash panel wiring harness
73	Terminal 30

[1] To December 2012
[2] From December 2012
[3] To June 2012
[4] From June 2012

Component Locations

⊛ The Beetle

1.6.2 73-pin (b)

White connector

73-pin connector -T73b-
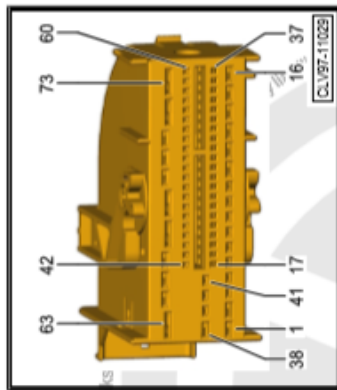
Cavity	Function
1	Switch and instrument illumination regulator -E20-
2	Right headlight dipped beam bulb -M31- , Front right headlight -MX2-
3	Left LED module for daytime running light and side light -L176- , Front left headlight -MX1
4	. . .
5	Front left headlight -MX1-
6	Front right headlight -MX2-
7	Positive connection 2 (58), in dash panel wiring harness, Positive connection (58), in number plate lights wiring harness 2)
8	. . .
9	Left fog light bulb -L22-
10	Right fog light bulb -L23-
11	Terminal 30 (fog light)
12	Connection (RL), in dash panel wiring harness
13	Terminal 30 (turn signal, brake lamp)
14	Connection (left turn signal), in headlight wiring harness
15	Connection 2 (right turn signal), in headlight wiring harness
16	Connection 2 (54) in dash panel wiring harness
17	Connection 1 (LIN bus) in main wiring harness
18	Connection 1 (powertrain CAN bus, low), in main wiring harness
19	Connection 1 (powertrain CAN bus, high), in main wiring harness

Cavity	Function
38	Terminal 31
39	Supply input signal (30) for electronics
40	. . .
41	. . .
42	. . .
43	Fog light switch -E7-
44	Turn signal switch -E2-
45	Connection (CCS), in dash panel wiring harness
46	Turn signal switch -E2-
47	Turn signal switch -E2-
48	Connection (RL), in interior wiring harness
49	Connection (61), in dash panel wiring harness
50	Positive connection (50), in dash panel wiring harness
51	Connection (75a), in dash panel wiring harness
52	Light switch -E1-
53	Intermittent wiper switch -E22-
54	. . .
55	Clutch position sender -G476- , Mechatronic unit for dual clutch gearbox -J743-
56	. . .

⊛ The Beetle

Component Locations

Cavity	Function
20	Connection 1 (convenience CAN bus, high), in main wiring harness
21	Connection 1 (convenience CAN bus, low), in main wiring harness
22	Diagnostic connection -U31
23	Diagnostic connection -U31
24	Connection 2 (LIN bus) in main wiring harness
25	. . .
26	. . .
27	Window wiper position 1 input signal
28	. . .
29	Light switch -E1-
30	Interior monitoring deactivation switch input signal
31	Air conditioning system control unit -J301- [3], Heater control unit -J162- [4]
32	Wiper motor control unit -J400-
33	. . .
34	Positive connection 2 (58b), in interior wiring harness
35	. . .
36	Alarm horn -H12-
37	Connection 1 (LIN bus) in dash panel wiring harness [2]

Cavity	Function
57	. . .
58	Exterior mirror heater button -E231-
59	Terminal 30
60	Terminal 31
61	Connection (53c), in dash panel wiring harness
62	Intermittent wiper switch -E22-
63	Frequency modulation (FM) frequency filter in positive wire -R179- I
64	. . .
65	. . .
66	. . .
67	Heated rear window supply input signal (30)
68	Supply input signal (30), right headlight
69	. . .
70	. . .
71	. . .
72	. . .
73	. . .

1) To December 2012
2) From December 2012
3) To June 2012
4) From June 2012

pg. 32

Minimum Software / Hardware Requirements 2GB of RAM CPU better than Pentium 4 @ 2GHZ 80GB of free hard drive 15" Monitor with 1024 x 768 resolution Microsoft Windows 7 Professional 64 bit or Microsoft Windows 7 Enterprise 64 bit with SP1

Connectivity Requirements Local Area Network internet connection with a minimum of 2Mbit per second download / upload speed. Mozilla Firefox 4 or higher Microsoft Internet Explorer 7 or later as least 1 free USB port Network connection to the internet with no proxy connections Pass - Through Tool (PTT) that is SAE-J2534 compatible

What is J2534 and Pass-Thru Programming?

J2534, also known as Pass Through, ensures that independent repair shops can work on modern cars and have cost-effective access to information and ECU programming downloads from vehicle manufacturer when required.

SAE J2534 is a communications standard adopted by vehicle manufacturers that enables compliant devices to reprogram vehicle ECUs. US legislation requires vehicle manufacturers to make vehicles, diagnostic and reprogramming applications that are compatible with J2534 devices, such as the Drew Technologies CarDAQ-Plus 2 (only available in North America) interface.

Most modern cars can now be reprogrammed using the J2534 standard. Our products and services enable this without the need for separate, expensive OE tools for each brand.

How to Apply to Become a "Registered" Vehicle Security Professional through the NASTF Registry the NASTF Vehicle Security Professional "Registry" The NASTF "Registry" is the foundation of the Secure Data Release Model; it is the repository of secure, background checked Vehicle Security Professionals (VSP). A VSP is an automotive locksmith or repair technician who specializes in services that require use of security-related service information. These services include immobilizer resets, component replacements that require initialization of security systems and creation/registration of high security keys. Locksmiths and auto repair technicians who have a need to access automaker security-related service information can apply for inclusion in the Registry.

The NASTF "Registry" process requires completion of a comprehensive application and submission to the NASTF Registry Administrator. The Registry is administered by the Automotive Service Association (ASA). Trade association membership is not required to be included in the Registry. Applicants to the Registry agree to undergo a background check and abide by the Registry Terms & Conditions of Use.

Details can be found on the NASTF Registry website ahttp://nastf.org/i4a/pages/index.cfm?pageid=3532 Once accepted into the Registry, the VSP is issued a security credential known as an LSID or Locksmith Identification number.

With a valid LSID, a VSP has access to security related information from participating automaker service information websites and/or call centers. A valid LSID and password is issued by the Registry for each individual authorized to access automaker security-related information.

The LSID and password is required for every service information transaction that involves security-related data. What is the NASTF Vehicle Security Registry - How to Apply v 11-21-11 The Application Process: To apply for inclusion in the "Registry" a VSP must: • Obtain a Registry Application & User Agreement from the Registry website or SDRM Director of Operations (SDRM@nastf.org)

• Carefully read the User Agreement (an integral part of the application) and the Terms & Conditions of Use.

• Complete the application in its entirety, including SSN, Fed Tax ID and professional license information (where applicable).

• Provide proof of required insurance and bonding (details are in the application).

• Sign the completed application in the presence of an authorized notary public to notarize the application.

• Mail, Email or FAX the notarized application form and all required supporting documentation to the NASTF Registry Director of Operations at the address on the application (be sure to make and retain photo copies of the entire application package).

• Within fourteen (14) days of receipt by the NASTF, a criminal background check will be performed and you will be notified by e-mail of your application status.

• (NOTE: applications without a permanent business address, proof of legitimate business operations, SSN, Federal Tax ID, Driver's License issued by the state in which the applicant is doing business will not be considered)

• Acceptance into the registry will result in issuance of a Locksmith Identification number (LSID) and temporary password via your account email address. Instructions on managing your password and other account information will be included in the welcome email and are available on the NASTF Registry website with general instructions on use of the Registry Administrative Website.

• If rejected, the applicant has the right to appeal within thirty (30) calendar days to the NASTF Security Review Committee. IMPORTANT: YOUR LSID IS ASSOCIATED WITH YOUR NAME, YOUR SOCIAL SECURITY NUMBER AND YOUR BUSINESS IDENTIFICATION. TRANSACTIONS FOR SECURITY-RELATED INFORMATION

ARE LOGGED BY THE NATIONAL INSURANCE CRIME BUREAU AND MONITORED BY THE NATIONAL CRIME INFORMATION CENTER. MISUSE OF YOUR LSID IS DIRECTLY TRACEABLE BACK TO YOU. INAPPROPRIATE USE OF LSID: IT IS A VIOLATION OF THE REGISTRY TERMS & CONDITIONS OF USE TO SHARE YOUR LSID CREDENTIAL WITH ANYONE. IT IS ALSO A VIOLATION TO SHARE INFORMATION ACQUIRED WITH YOUR LSID WITH OTHERS. VIOLATION OF THE REGISTRY TERMS & CONDITIONS OF USE WILL RESULT IN SUSPENSION OR REVOCATION OF YOUR LSID

What OEM equipment is available to reprogram vehicles?
- I+ME Pass-Thru+XS Available from ACTIA Corp www.actiaus.com or (734) 266-2083
- DrewTech CarDAQ Plus, CarDAQ M ,or Mongoose Pro VW Available from Drew Technologies, Inc. http://www.drewtech.com or (734) 222-5228
- Blue Streak iflash Global Programmer Available from Blue Streak Electronics, http://www.bsecorp.com or (905) 669-4812
- DG Technologies VSI-2534 Available from DG Technologies www.dgtech.com or (248) 888-2000

VW/AUDI

Subscribing to IDOS and PASS-THRU device

erWin Portal

Home   About erWin   Search   Vehicle Diagnostics   Reprogramming   Security Professionals Key Program   My erWin

Audi
Truth in Engineering

Welcome to erWin

Home

Login

User Name

Password

> Login

> Password Forgotten

Info

Not logged in

erWin Portal

Home   About erWin   Search   Vehicle Diagnostics   Reprogramming   Security Professionals Key Program   My erWin

Registration

User Name *	
Email *	
First Name *	
Last Name *	
Title	
Customer Type	● Business ○ Personal
Business	
Telephone	
Address *	
City *	

Login

Registration

This will bring you to the screen seen on the next page

erWin Portal

Home   About erWin   Search   Vehicle Diagnostics   Reprogramming   Security Professionals Key Program   My erWin

* Steps 1 through 5 must be completed in order!

You must fulfill the following requirements:

Hardware for the connection with the VAS tester:
VAS 6150A, B or C: VAS5054A
VAS 6160, 6160A: VAS 5054A

Introduction to ODIS Service, please read the following documents before proceeding
> Introduction Guide
> ODIS-Service - Installation Instructions for Independent Repair Facilities
> VAS Diagnostic Devices - Windows® 7 Installation Instructions for Independent Repair Facilities
> ODIS FAQs

Perform only those steps not already completed.

Step 1   > Independent Shop Registration
         Required to obtain Site ID. Allow one to two weeks processing. (If you are already registered and know your site ID, proceed to Step 2.)

Step 2   > Order Diagnostic Software DVD
         Only one DVD is required for both Audi and VW applications.

Step 3   > Request Security Certificate
         Required to obtain Org ID, Global user ID , password and certificate.

Step 4   > Obtain Diagnostic License
         Required to activate diagnostic software.

Step 5   > Purchase Diagnostic Subscription
         A subscription provides one year of unlimited access to all ODIS System diagnostic and reprogramming functions.

Perform only those steps not already completed.

Step 1 — Independent Shop Registration
Required to obtain Site ID. Allow one to two weeks processing. (If you are already registered and know your site ID, proceed to Step 2.)

Step 2 — Order Diagnostic Software DVD
Only one DVD is required for both Audi and VW applications.

Step 3 — Request Security Certificate
Required to obtain Org ID, Global user ID , password and certificate.

Step 4 — Obtain Diagnostic License
Required to activate diagnostic software.

Step 5 — Purchase Diagnostic Subscription
A subscription provides one year of unlimited access to all ODIS System diagnostic and reprogramming functions.

Click link and download registration form, fill out and submit to email provide in form

Home | About erWin | Search | Vehicle Diagnostics | Reprogramming | Security Professionals Key Program | My erWin

erWin Online

In order to gain access to various on-line systems needed for diagnostic work and security related functions, registration is required.
If you are not a registered shop, please download, complete and fax or email per the instructions on the form.

Download Registration Form
To the Vehicle Diagnostics start page

Login

Logged in as
vag

▸ Log Out

▸ Change password

Info

Logged in as:
vag

Your subscription expires in:
209 days 3 hrs. 46 mins.

NOTE:

Register for Audi form. It does both Audi and Volkswagen.

There is a fee of 100 U.S dollars

And you must include copy of you're:
- *Business license or Local Jurisdiction*
- *Locksmith license or Local Jurisdiction*
- *Application fee*
- *Business card or Letterhead with Business Name*

Go to step 2. Download file

and submit once all entries are filled

In order to receive on line software updates to the Offboard Diagnostic Information System, you also need an Offboard Diagnostic Information System security certificate. Please follow the following steps:

1. Your Site ID was assigned as part of your registration. If you do not know your site ID, please request it from techinfo@vw.com
2. If you do not have a Hardware ID please download and run the " ❯ Hardware ID generator" on your tester.
3. When you receive your Security Certificate via e-mail, please save it to your VAS desktop and USB drive as it will be required later during your ODIS installation.

Site ID *

Contact Name *

Phone number *

Email Address *

Hardware-ID *

Make *   ○ Audi   ○ Lamborghini

❯ Request Security Certificate

Go to step 3

* Steps 1 through 5 must be completed in order!

You must fulfill the following requirements:

Hardware for the connection with the VAS tester:
VAS 6150A, B or C: VAS5054A
VAS 6160, 6160A: VAS 5054A

Introduction to ODIS Service, please read the following documents before proceeding
> Introduction Guide
> ODIS-Service - Installation Instructions for Independent Repair Facilities
> VAS Diagnostic Devices - Windows® 7 Installation Instructions for Independent Repair Facilities
> ODIS FAQs

Perform only those steps not already completed.

Step 1	> Independent Shop Registration Required to obtain Site ID. Allow one to two weeks processing. (If you are already registered and know your site ID, proceed to Step 2.)
Step 2	> Order Diagnostic Software DVD Only one DVD is required for both Audi and VW applications.
Step 3	> Request Security Certificate Required to obtain Org ID, Global user ID , password and certificate.
Step 4	> Obtain Diagnostic License Required to activate diagnostic software.
Step 5	> Purchase Diagnostic Subscription A subscription provides one year of unlimited access to all ODIS System diagnostic and reprogramming functions.

Go to step 4

erWin Online

In order to receive on line software updates to the Offboard Diagnostic Information System, you also need an Offboard Diagnostic Information System security certificate. Please follow the following steps:

1. Your Site ID was assigned as part of your registration. If you do not know your site ID, please request it from techinfo@vw.com
2. If you do not have a Hardware ID please download and run the "Hardware ID generator" on your tester.
3. When you receive your Security Certificate via e-mail, please save it to your VAS desktop and USB drive as it will be required later during your ODIS installation.

Site ID *

Contact Name *

Phone number *

Email Address *

Hardware-ID *

▸ Request Security Certificate

To the Vehicle Diagnostics start page

Login

Logged in as
vag

▸ Log Out

▸ Change password

Info

Logged in as:
vag

Your subscription expires in:
209 days 3 hrs. 2 mins.

Go to step 5

* Steps 1 through 4 must be completed BEFORE purchasing the ODIS Service subscriptions!
You have access to perform these tasks under the Offboard Diagnostic Information System:

• Vehicle diagnostics
• Security-relevant tasks
• On-line diagnostic software updates

Access to tasks performed under the Offboard Diagnostic Information System incurs a fee and must be booked for fixed periods of time (subscriptions). During access you can perform diagnostic tasks on vehicles through the Offboard Diagnostic Information System. Use the same ORG ID you received with your certificate to order both Audi and VW Subscriptions. Order the VW subscription on the VW Erwin site. Order the Audi Subscription on the Audi Erwin site.

Access to.. *   ○ ODIS Flatrate (Y) ($750.00)

Org-ID *   [   ]

Make *   ○ Audi   ○ Lamborghini

          ▸ Purchase Subscription

Service Information

Offboard Diagnostic Information System Service (ODIS Service)

Subject: ODIS Service Installation   Date: Oct. 25, 2017

1.0 – Introduction

1.1 – General Information

This document describes the **download, installation** and **configuration** of **ODIS Service diagnostic software** on diagnostic laptop and tablet devices. These instructions apply to initial installations on new devices, i.e.: ODIS Service not previously installed, and reinstallation on existing devices, i.e.: where the Windows system was recovered.

Some instructions differ slightly between Windows 7 and Windows 10 devices.

1.2 – Preparation Overview

- **Steps 1, 2 and 3 have** been completed on **erWin > Vehicle Diagnostics**
- If you use a J2534 PassThru Diagnostic Device, **please ensure the software is installed prior** to installing ODIS.
- **Disable** All Anti-Virus Software

2.0 – Installation

2.1 – Download & Install Application Data – "Single Setup"

> **Notes:**
> - *The following steps illustrate the Single Setup process on device with* **Windows 10**.
> - *The process screens on a device with* **Windows 7** *are similar.*

1. **Open Internet Explorer**
2. Carefully enter the VWAG Group Services web-server URL into the browser's address bar exactly as illustrated below, and then click the **"Go to"** arrow:

Service Information

3. Select **OK:**

Note:

If multiple certificate confirmation prompts appear, select and confirm the one indicated as:

Issuer: VWGoA ODIS RootCA

4. Navigate through the **web-server Indexes** in the following order:

   ➢ **Odis/Trade–Retail/software/installation/**

5. From the Index list, double-click the **latest ODIS Service installation version .exe (listed by date):**

Service Information

6. Click **Save. The file will be saved in your Downloads Folder.**

Do you want to run or save **OffboardDiagSetup-Service_VWMCD_4_0_0-B40_5_0_1.exe** (614 MB) from **mirrorserver2.vwhub.com**?   Run   Save ▾   Cancel   ×

7. Once the download is complete, click **View downloads.**

20 sec remaining   Pause   Cancel   View downloads   ×

8. Locate the OffboardDiagSetup exe file in the Downloads folder, **right click it and choose Run as administrator.**

File   Edit   View   Tools   Help

Organize ▾   📄 Open   Share with ▾   E-mail   New folder   ⊞⊟

Favorites
■ Desktop
📥 Downloads
📍 Recent Places

Name

OffboardDiagSetup-Service_VWMCD_4_0_0-B40_5_0_1.exe
   Open
   🛡 Run as administrator

9. When the download is complete, **Close** the browser session.

10. No action needed:

Install4j assistant   —   ☐   ✕

Offboard Diagnostic Information System Service is preparing the Install4j assistant that assists with the installation.

Cancel

Service Information

6. Click **Save. The file will be saved in your Downloads Folder.**

Do you want to run or save **OffboardDiagSetup-Service_VWMCD_4_0_0-B40_5_0_1.exe** (614 MB) from **mirrorserver2.vwhub.com**?   Run | Save ▾ | Cancel   ×

7. Once the download is complete, click **View downloads.**

20 sec remaining   Pause | Cancel | View downloads   ×

8. Locate the OffboardDiagSetup exe file in the Downloads folder, **right click it and choose Run as administrator.**

File Edit View Tools Help

Organize ▾   🗐 Open   Share with ▾   E-mail   New folder

Favorites
■ Desktop
📥 Downloads
📍 Recent Places

Name
📦 OffboardDiagSetup-Service_VWMCD_4_0_0-B40_5_0_1.exe
Open
🛡 Run as administrator

9. When the download is complete, **Close** the browser session.

10. No action needed:

🗔 Install4j assistant   — ☐ ✕

Offboard Diagnostic Information System Service is preparing the Install4j assistant that assists with the installation.

Cancel

Service Information

11. Confirm **English (US)** is selected, click OK

Notes:

- ***English is the default language selection. <u>If this is a Lamborghini or Bentley installation select English (GB)</u>***

12. Next
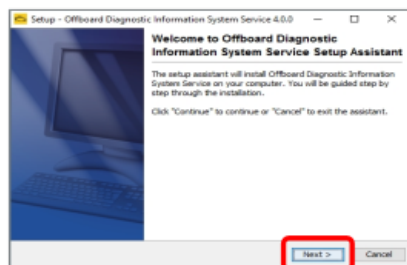
Select **Next** . . . **Next:**
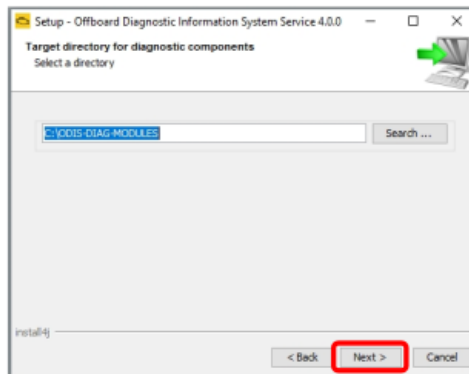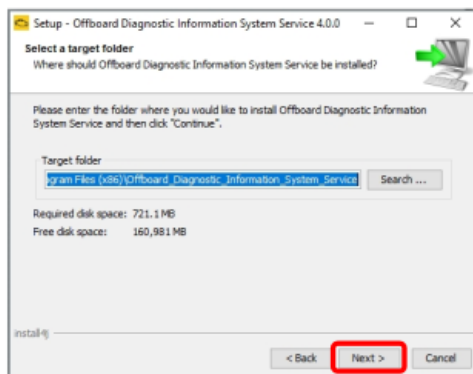
Service Information

13. Click the **Target platform dropdown selection arrow,** select the **diagnostic device model number or type** that applies to the device, and then select **Next:**
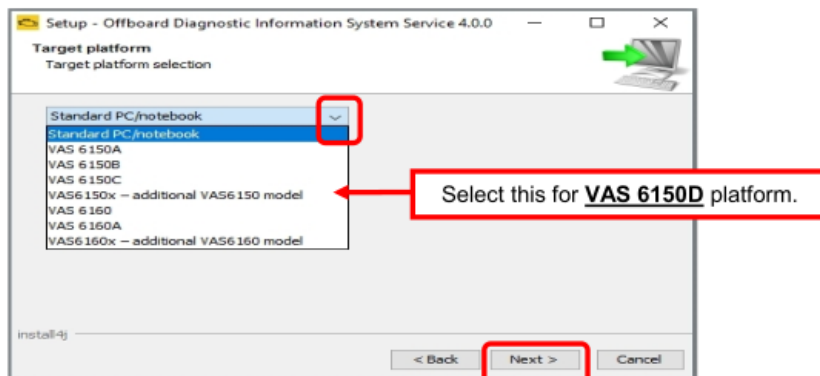
14. Click the **Diagnostic interface dropdown arrow,** and then select the applicable diagnostic interface: <u>Either</u> PassThru, **VAS5054, OR VAS6154** (ref. *Note:* below), and then select **Next:**
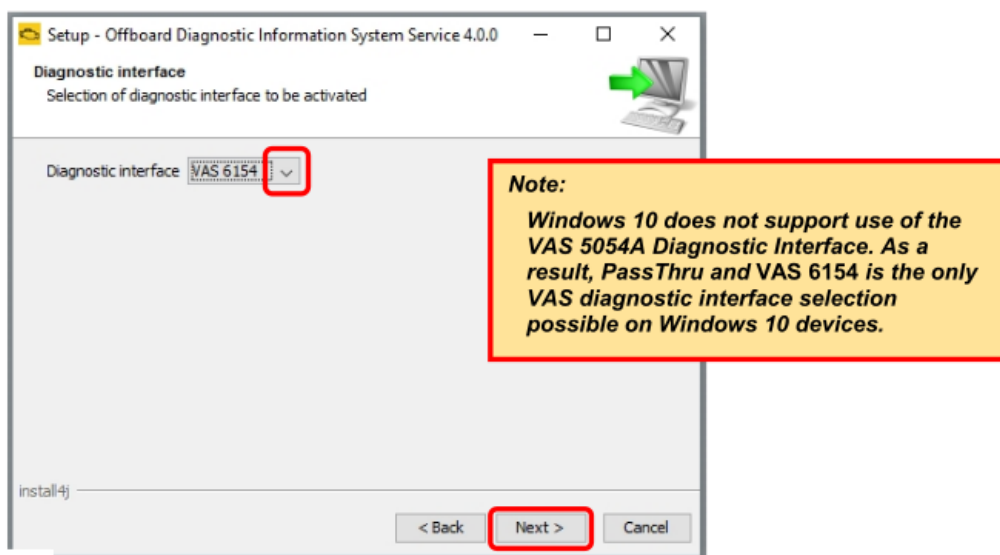
Service Information

15. **Windows 7 with PassThru or VAS5054A:** Select **Next** to confirm the **device connection.**

16. **Windows 7 and 10 with VAS 6154:** Select **Next:** (Entering a hostname is optional.)
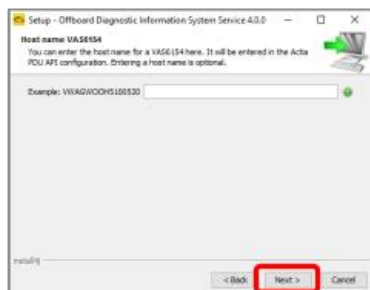
17. Ensure **Copy license to the license folder** is checked, and then click **Search…:**
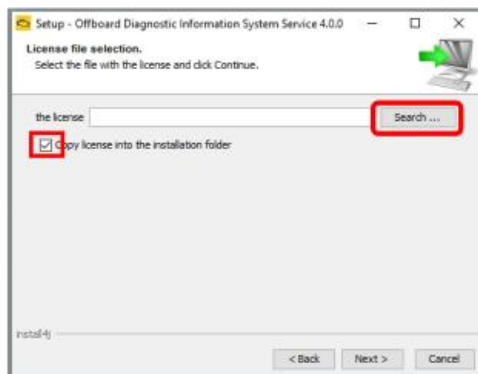
18. **Browse to the license.dat location.** This is the license you requested on **erWin > Vehicle Diagnostics >Step 3.**

19. **Select / highlight** the **license** (.dat) file **(DO NOT double-click)**, and then click **Open:**
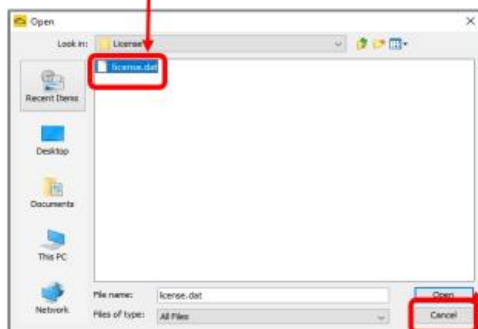
Note:
DO NOT *double-click the license file (to open it) in its saved locations!*

Service Information

20. Ensure the **license file directory path** appears in the **installation window,** and then **select Next:**
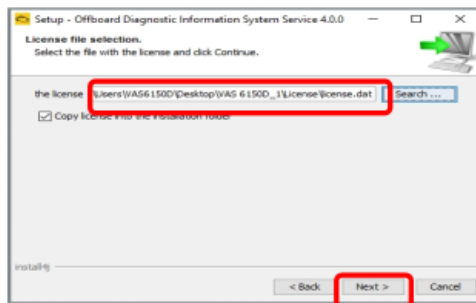
21. No action needed. Select **Next:**
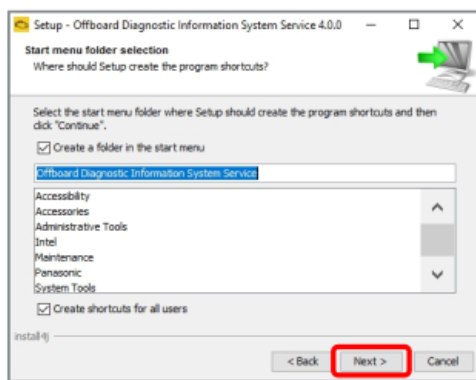
22. **Wait** while several different phases of the installation take place:
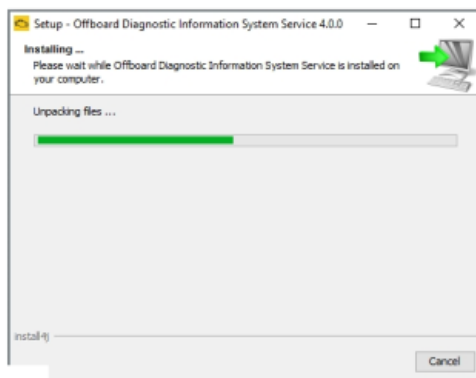
Service Information

23. Select **Install:**
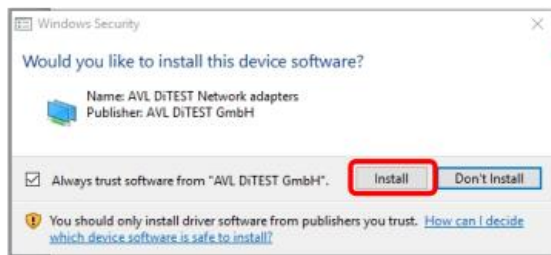
24. Click **Finish:**
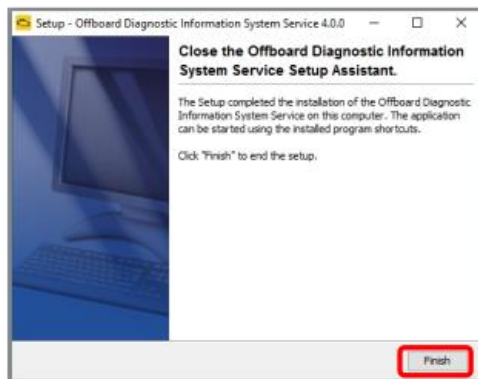
25. Select **Yes:**
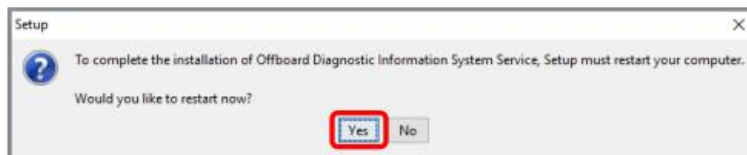
Service Information

2.1.1 - Verify Diagnostic Interface Installed Correctly

1. If you selected the VAS 5054 during the ODIS installation, please confirm the following 2 applications open. If not, please un-install and re-install ODIS.

   Click the Windows Button > All Programs > Softing D-PDU API for VCIs

   - Click EDIC Configuration Manager

   - Click EDIC Hardware Installation

2. If you selected VAS 6154 during the ODIS installation, please confirm that the following application opens. If not, please un-install and re-install ODIS.

   Click the Windows Button > All Programs > XS_D_PDU_API_OS

   - XS D PDU API Tester

3.0 – Import Security Certificate to Application

Brand-specific diagnostic data must be downloaded from the VWAG Group Services web-server. To enable this, the security certificate obtained from erWin>Vehicle Diagnostic Step 2 must be imported to the ODIS Service application.

The diagnostic device's **hardware key must be entered as a password** during the certificate importation process.

1. **From the Windows desktop, right-click** the **Offboard Diagnostic Information System** icon, and select **Run as administrator:**
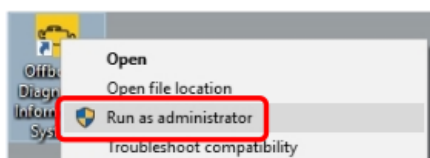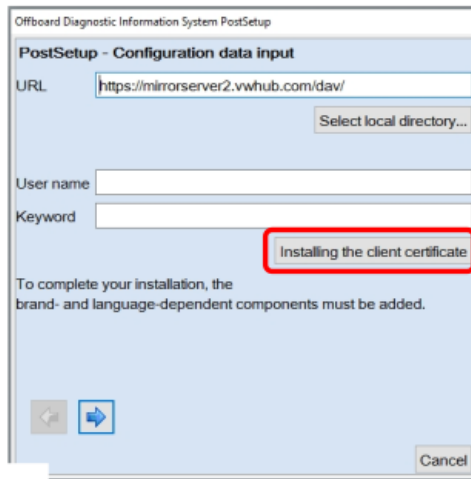
Wait while the application starts:

Service Information

2. Select **Installing the client certificate:**

Offboard Diagnostic Information System PostSetup

PostSetup - Configuration data input

URL   https://mirrorserver2.vwhub.com/dav/

Select local directory...

User name

Keyword
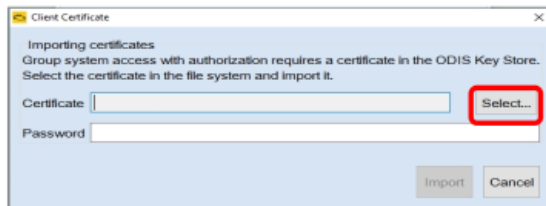
Installing the client certificate

To complete your installation, the
brand- and language-dependent components must be added.

Cancel

3. Click **Select:**

Client Certificate   ×

Importing certificates
Group system access with authorization requires a certificate in the ODIS Key Store.
Select the certificate in the file system and import it.

Certificate   Select...

Password

Import   Cancel

Browse to the certificate location. This is the certificate you received via e-mail from the VWGoA
Dealer Fax

Page 10 of 17

Service Information

4. **Select / highlight** the **certificate** (.pfx) file and then click **Open**:
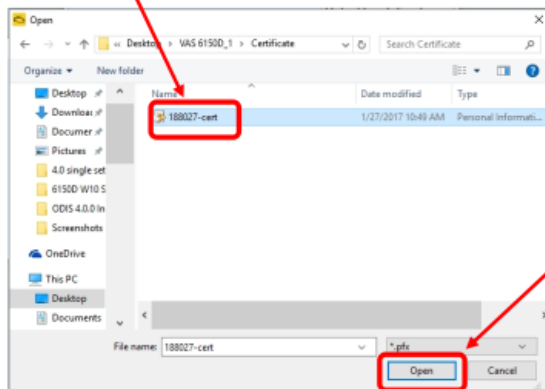
Note:

DO NOT *double-click the certificate file in its saved location!*

5. Ensure the **certificate file directory path** appears in the **Certificate** import window:
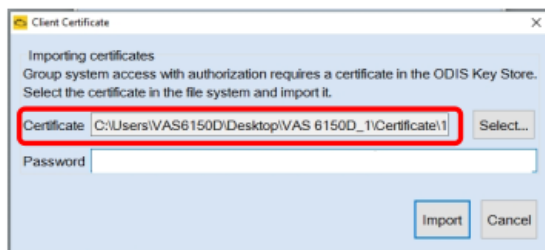
Note: You would of saved his hardware ID when completing **Step 2 or 3 on erWin > Vehicle Diagnostics**. If you don't have it, go back to this step in erWin and click the Hardware ID genarator.

6. **Select** and **Copy** <u>the first 32 characters (only)</u> of the **hardware key.** Example:
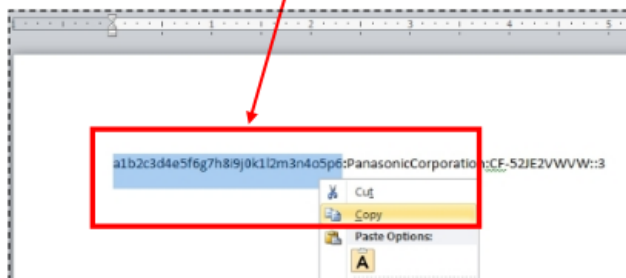
The characters are saved in Windows "clipboard" memory.

Service Information

7. **Paste** the 32-characters copied above into the **Password:** entry field, and then select **Import:**
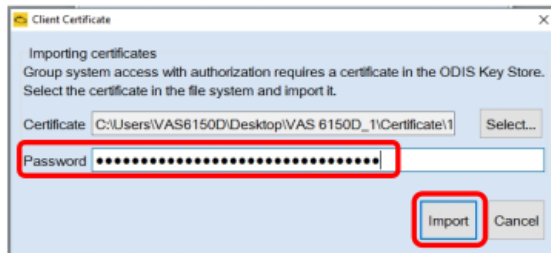
8. Click **OK:**
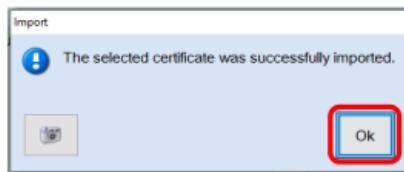
3.1 – Diagnostic Database Download & Installation – "Post-Setup"

1. Click the **Forward Arrow** button:
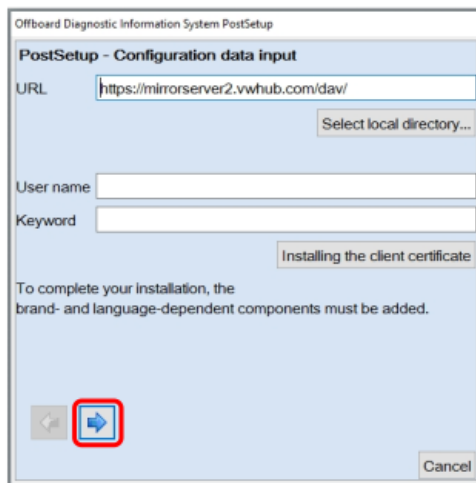
Service Information

2. Click the **Forward Arrow** button:
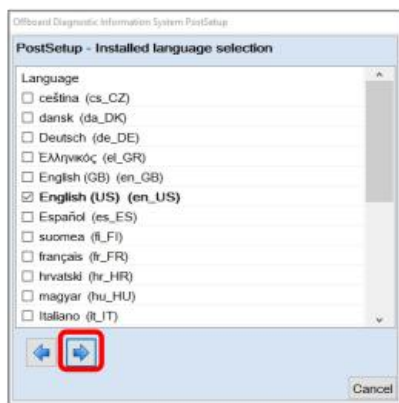
Notes:
- ***English is the default language selection. <u>If this is a Lamborghini or Bentley installation select English (GB)</u>***

3. **Wait** while the connection is established:
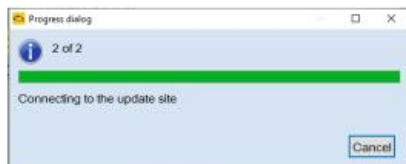
4. Click the **Forward Arrow** button:
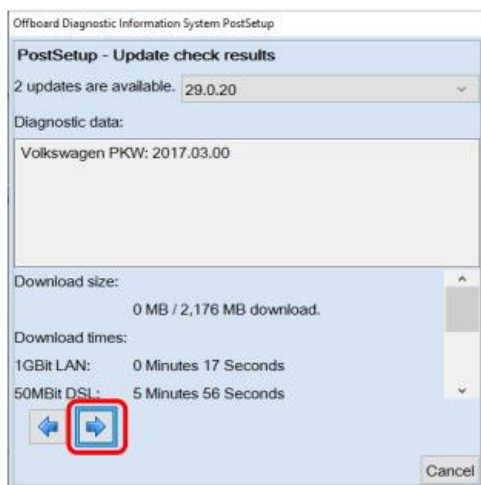
Notes:
- *The diagnostic data version information illustrated here **is an example only!** Versions are updated regularly.*
- *The version(s) listed in the example reflect the Brand(s) associated with the license file. The association is based on the dealership's status, either **Single** or **Dual**.*

Service Information

5. <u>Wait</u> while the diagnostic data download and installation takes place:
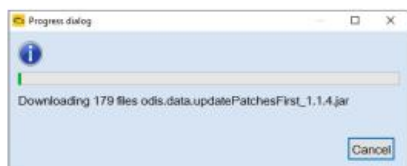
The **Progress dialog** window may appear to stall or lock at times during this process. This is normal. **Please be patient!**

Download times depend on single brand or dual brand data **(dual = longer)**, the dealership network download speed and network traffic **(slower Mbps + busy = longer).**

1. **Read and close** the **Release Notes** window.
2. **Read** the **Warnings/notes information, scroll down and click OK.**

The **ODIS Service main window** appears.

The VW brand design is displayed by default.

4.0 – Post-Setup Configuration

Prior to placing the diagnostic device into service, a number of configuration steps are required. Configurations take place via the **Admin** operating mode. Settings can be changed at any time.

4.1 – Administration - General

The following subsections describe configurations using the **Admin > General** operating mode.

1. From the ODIS Service main screen, select **Admin:**
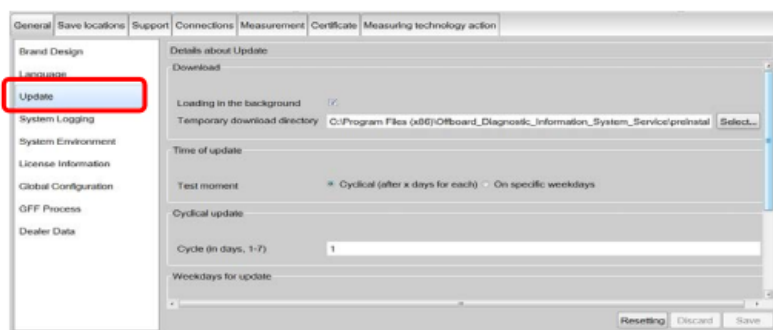
Service Information

The **General** category tab appears first by default. Available function / configuration subcategories are listed in the left-hand display menu of each tabbed category.

4.1.1 – Update

The **schedule for automatic updates** is configured with the **Update** function.

1. Select **Update,** and then review the available update schedule settings:
2. Configure the update **cycle** and **time** appropriate for your facility: Click **Save / Yes:**
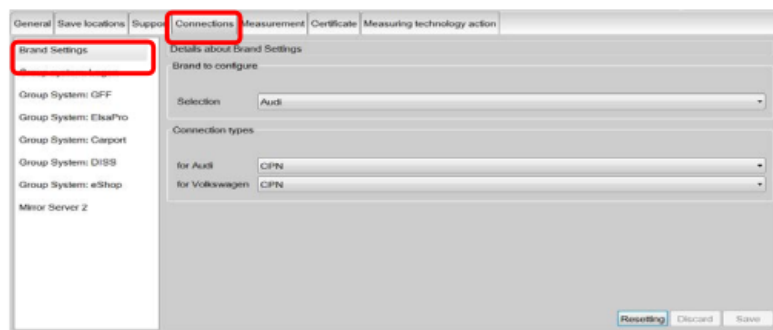
4.3 – Administration - Connections

The following subsections describe configurations using the **Admin > Connections** operating mode.

4.3.1 – Brand Settings Data

The connection to **VWAG Group Services** (to transmit GFF logs, etc.) is configured via **Brand settings.**

1. From the **Admin** operating mode main screen, select the **Connections** tab. The **Brand settings** subsection is displayed first by default:

Service Information

2. **Change** the **Connection type** in the dropdown menu(s) <u>from **CPN** to **Internet**</u>: Click **Save / Yes:**

IMPORTANT!
Failure to change the connection type <u>from CPN to Internet</u> will result in the inability to download online updates!

5.0 – Bentley URL Changes

THE REMAINING STEPS ARE FOR BENTLEY INSTALLATIONS ONLY

Click on **Admin > Connections > Group system: Logon** and ensure your URL's match what's below

URL to DSS View	https://odisinfomedia.vwhub.com/Technical/DiagnosticSessionViewService
URL to DSS Logon	https://odisinfomedia.vwhub.com/services
URL to Logon	https://odiscert.vwhub.com/LOGON/LOGONService.asp

Service Information

Click on **Admin > Connections > Group System: GFF** and ensure the URL match what's below

General	Save locations	Support	Connections	Measurement	Certificate	Measuring technology action

Brand Settings

Group system: Log...

Group System: GFF

Group System: Els...

Group System: Ca...

Group System: DISS

Group System: eS...

Mirror Server 2

Details about Group System: GFF

PinService	https://odiscert.vwhub.com/PIN/PINService.asp
RepairHints	https://odiscert.vwhub.com/Service42/RepairHints.asp
SVMService	https://odiscert.vwhub.com/svmvw/svmvwservice.asp
ProtoService	https://odiscert.vwhub.com/PROTO/PROTOService.asp

Click on **Admin > Connections > Mirror Server2** and ensure the URL match what's below

General	Save locations	Support	Connections	Measurement	Certificate	Measuring technology action

Brand Settings

Group system: Log...

Group System: GFF

Group System: Els...

Group System: Ca...

Group System: DISS

Group System: eS...

Mirror Server 2

Details about Mirror Server 2

Access data

Mirror Server URL	https://mirrorserver2.vwhub.com/dav/
Mirror Server user	
Mirror Server password	

Timeout

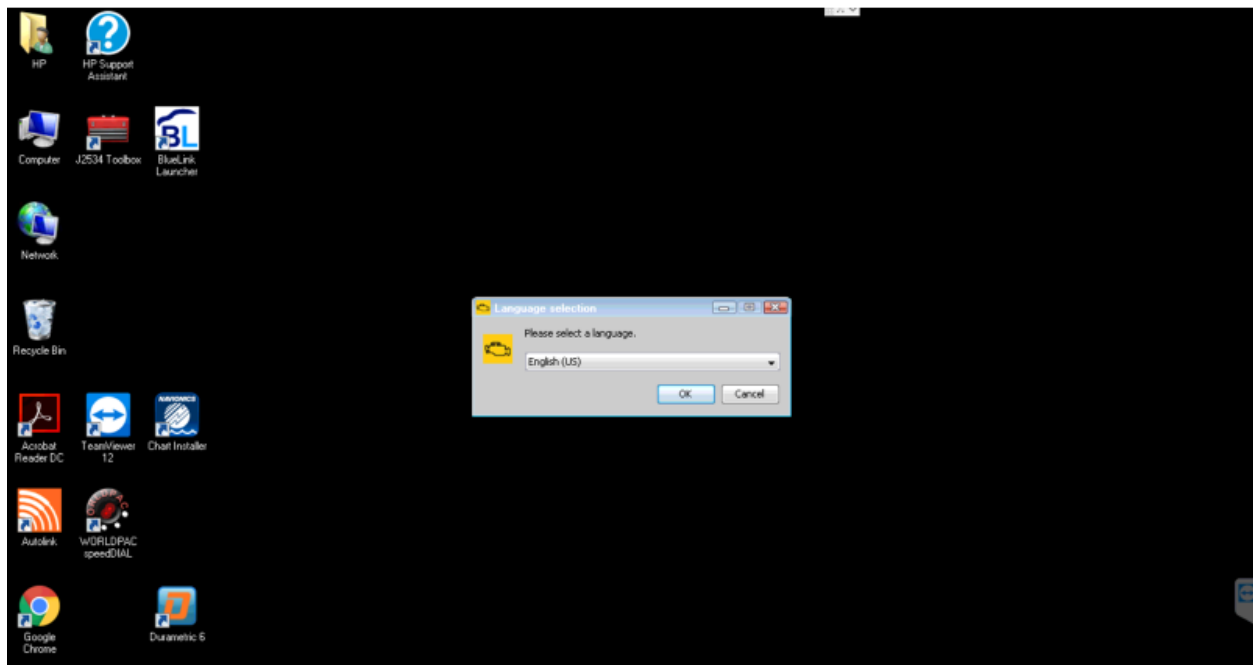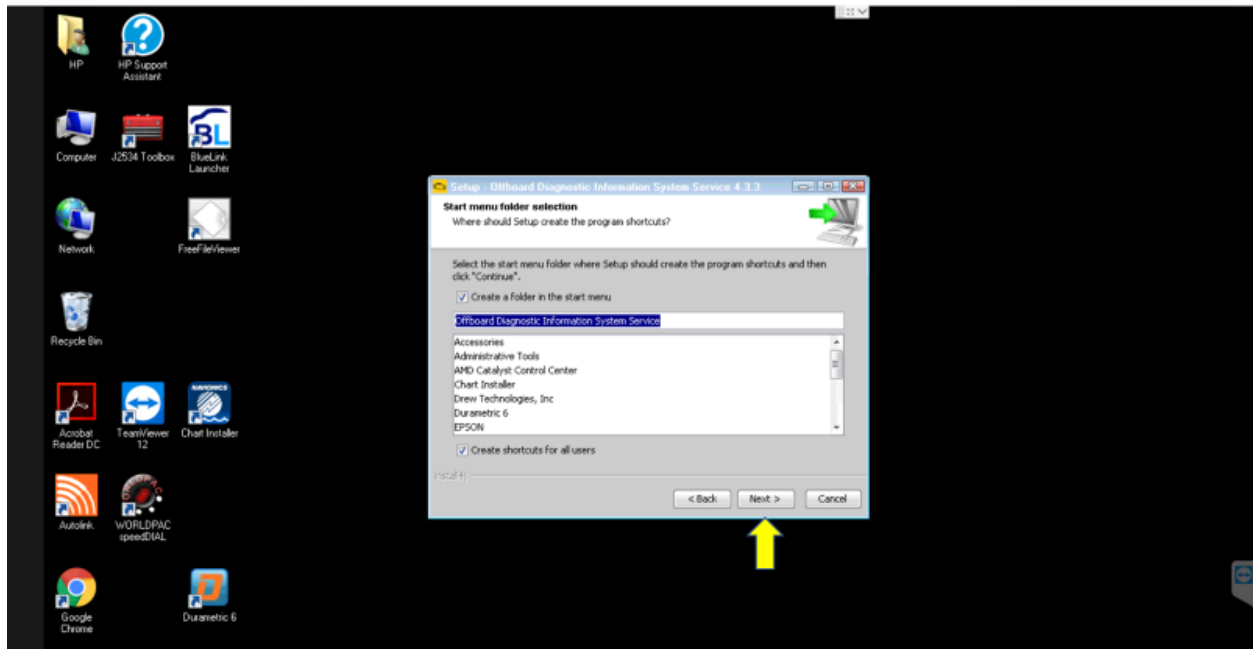| Timeout [s] | 120 |
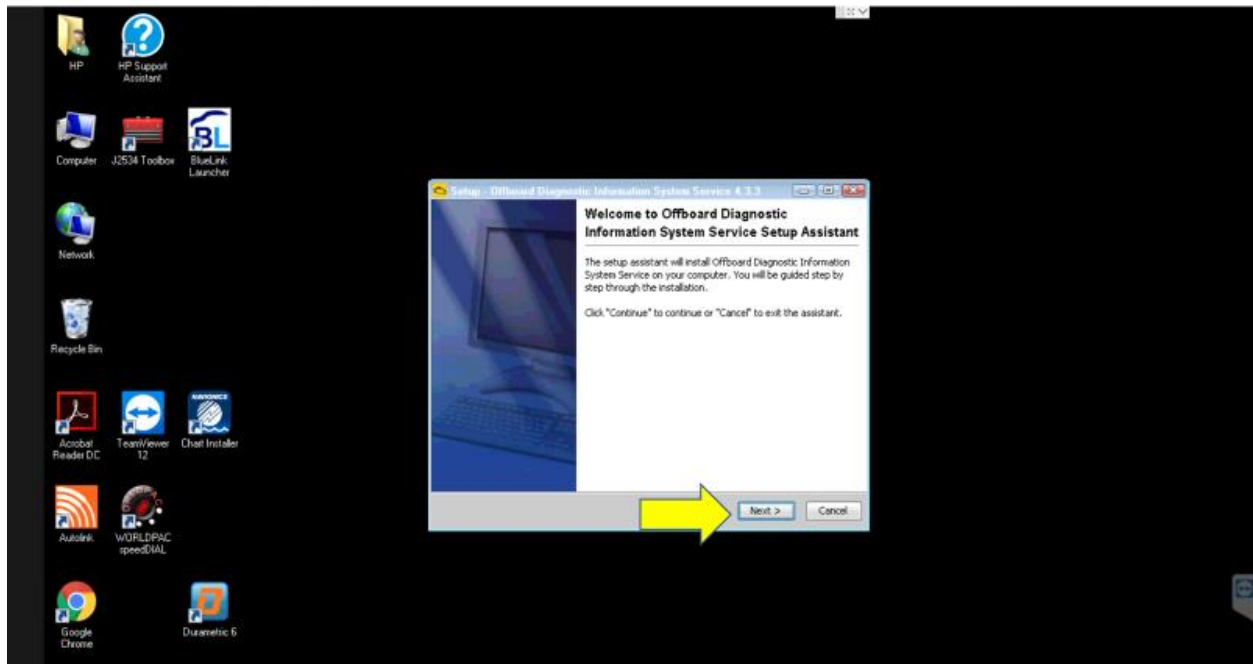
Click next
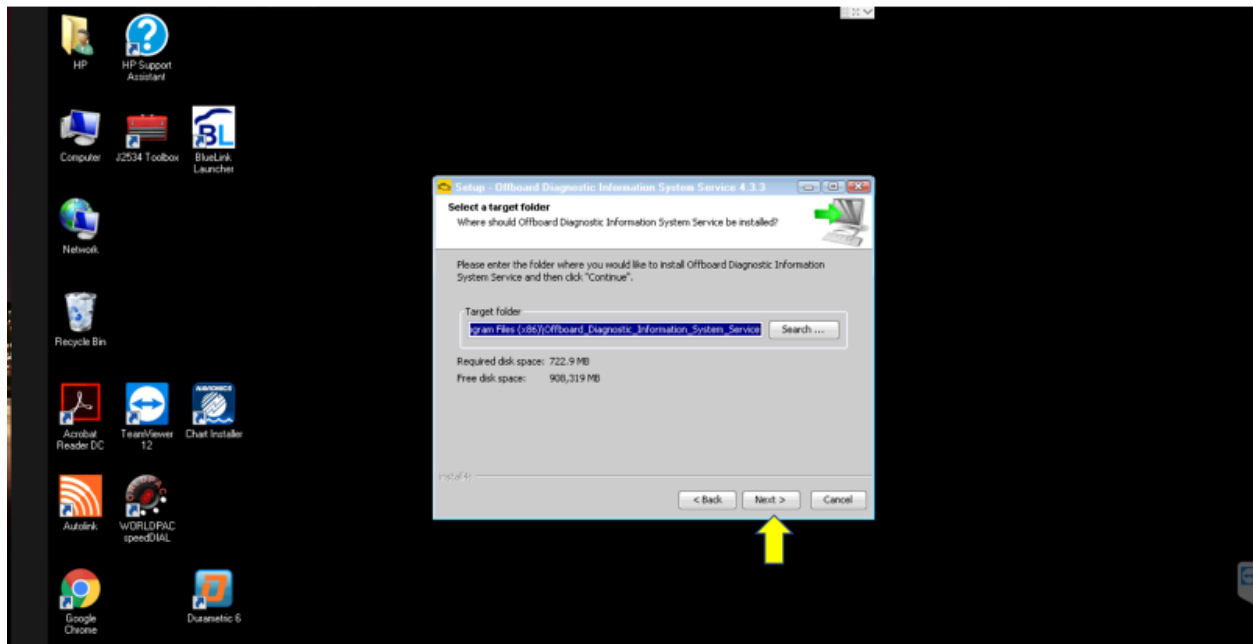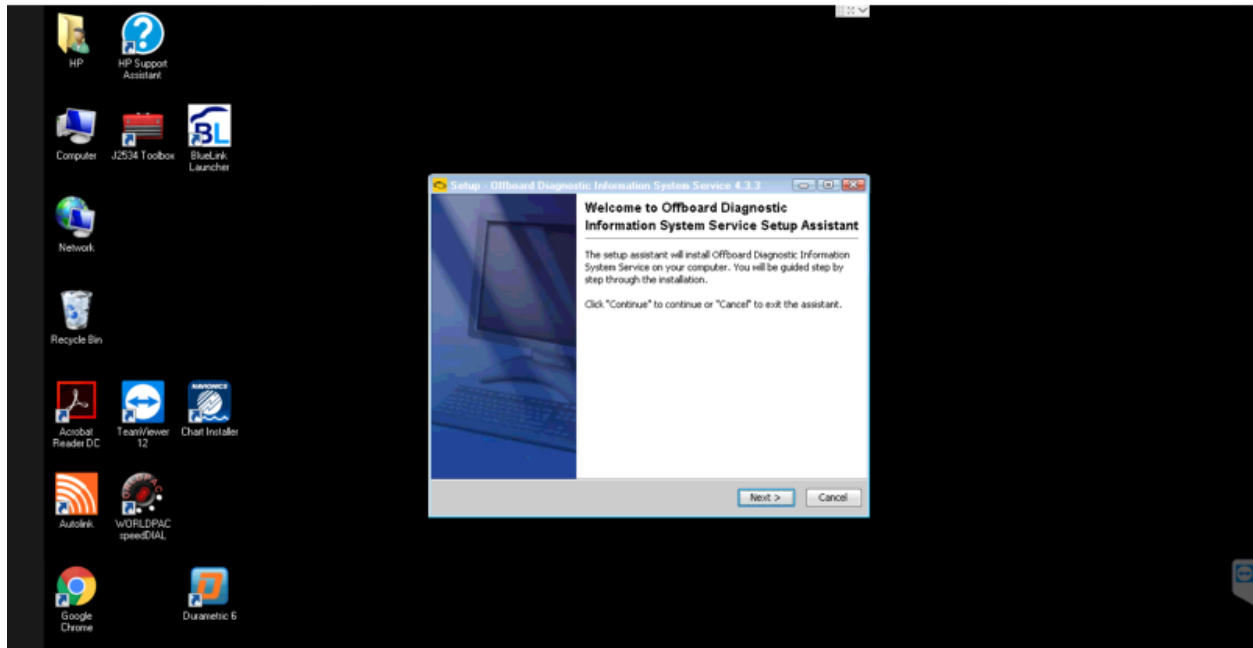
Click next
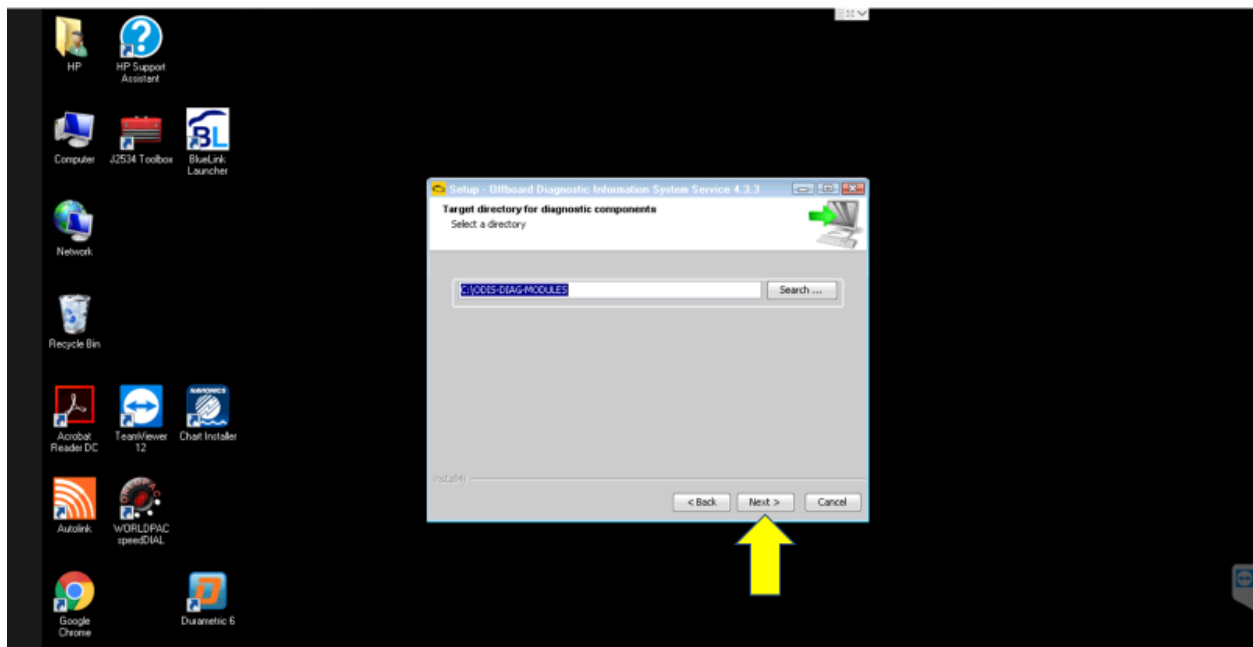
Click Next
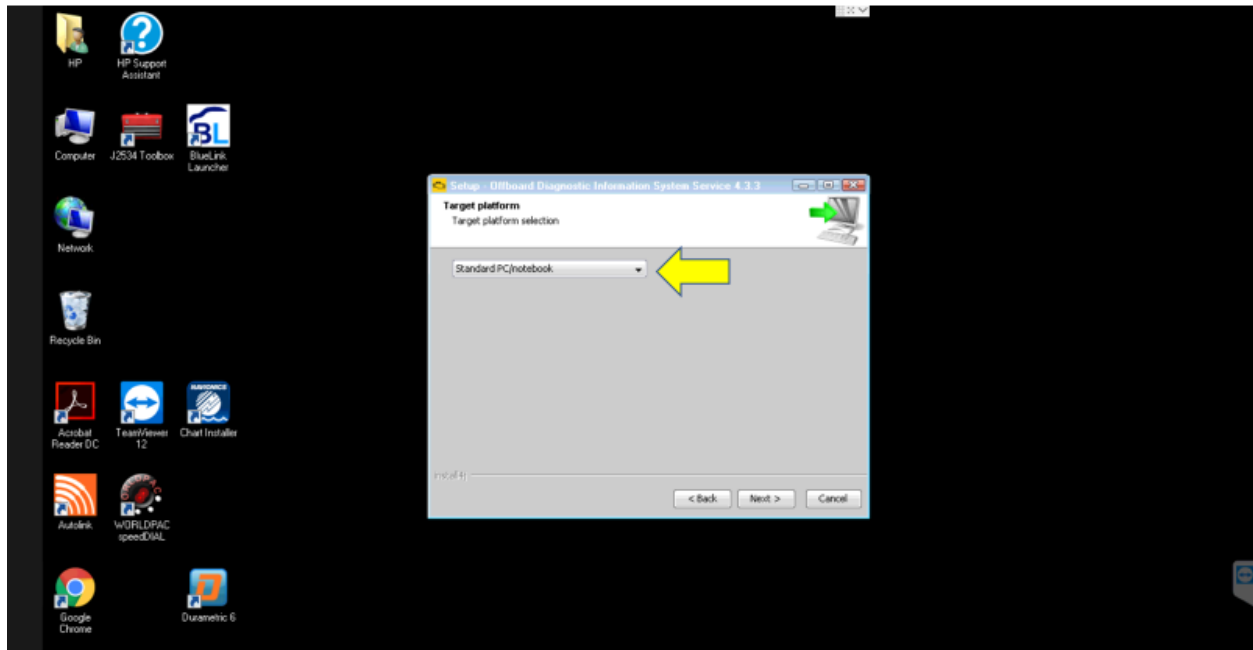
Double check to make sure selecting standard pc/notebook
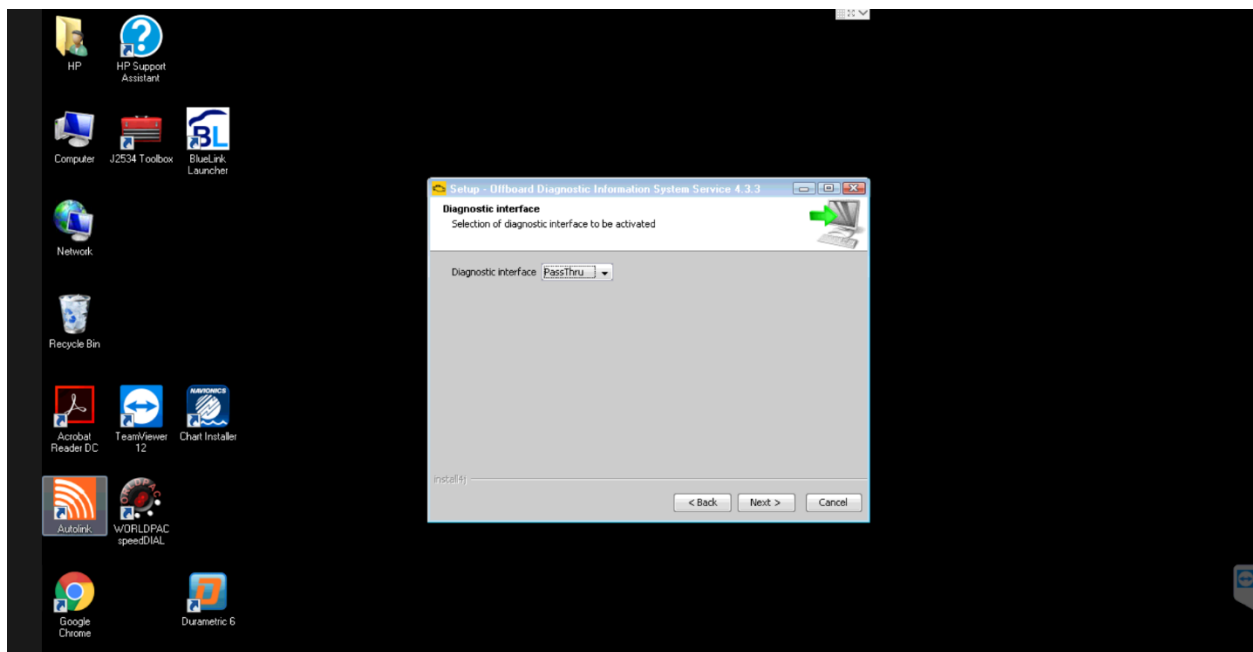
Select Pass Thru

Select next and watch the magic happen.

Magic takes 2-3 hours

Minimum Software / Hardware Requirements

4GB of RAM CPU better than Pentium 4 @ 2GHZ

80GB of free hard drive

15" Monitor with 1024 x 768 resolution

Microsoft Windows 7 Professional 64 bit or Microsoft Windows 7 Enterprise 64 bit with SP1

Connectivity Requirements

Local Area Network internet connection with a minimum of 2Mbit per second download / upload speed.

Mozilla Firefox 4 or higher Microsoft Internet Explorer 7 or later

As least 1 free USB port

Network connection to the internet with no proxy connections

Pass - Through Tool (PTT) that is SAE-J2534 compatible

What is J2534 and Pass-Thru Programming?

J2534, also known as Pass Through, ensures that independent repair shops can work on modern cars and have cost-effective access to information and ECU programming downloads from vehicle manufacturer when required.

SAE J2534 is a communications standard adopted by vehicle manufacturers that enables compliant devices to reprogram vehicle ECUs. US legislation requires vehicle manufacturers to make vehicles, diagnostic and reprogramming applications that are compatible with J2534 devices, such as the Drew Technologies CarDAQ-Plus 2 (only available in North America) interface.

Most modern cars can now be reprogrammed using the J2534 standard. Our products and services enable this without the need for separate, expensive OE tools for each brand.

Start up screen of Odis

Notice the Key with the question mark on it

When using a j2534 device the key is no recognized, no need to worry about this it how Volkswagen wrote the program when not using their diagnostic head.

DrewTech Products

CarDAQ-Plus 2▪ and CarDAQ-M▪ are designed for all OEMs, while each MongoosePro▪ is designed to be OEM-specific. If your shop focuses on one particular make, MongoosePro▪ will fit your needs. However, if you do all makes/all models, CarDAQ-Plus 2▪ or CarDAQ-M▪ will be the best choice for you.

	CarDAQ-Plus 2▪	CarDAQ-M▪	MongoosePro▪
OEMs Supported			
BMW/Mini	X	X	X
Chrysler	X	X	X
Daewoo	X	X	
Ford	X	X	X
GM	X	X	X
Honda/Acura	X	X	X
Hyundai	X	X	
Isuzu	X	X	
Kia	X	X	
Mazda	X	X	
Mercedes Benz	X	X	
Mitsubishi	X	X	
Nissan/Infiniti	X	X	
Subaru	X	X	
Toyota/Lexus/Scion	X	X	X
Volvo	X	X	
VW/Audi	X	X	X
Product Features			
USB version 1.1 and higher	X	X	X
J2534 Support	X	X	X
Bluetooth option available *	X		X

This is the 5054a Volkswagen/Audi head and can only be used on a windows 7 Pc

This is the 6154 Volkswagen/Audi head and is used with windows 10

The Internet

Offboard Diagnostic Information System Service - 4.3.3

Importer: —
Dealer: —
RO: —

VIN: —
Engine: —

Audi

Welcome to Diagnosis

Goal: full diagnostic functionality Once the vehicle has connected and diagnosis has started, vehicle identification and evaluation of the DTC memory will take place. Then the "Guided Fault Finding" and "Guided Functions" will be available for vehicle diagnosis. If you would like to work without a warranty order, you also have the option to use OBD.

Connection to the vehicle established

Ignition status not recognized

Starting diagnosis

LAMBORGHINI
BENTLEY
BUGATTI
ŠKODA
Audi
SEAT
Commercial Vehicles
MAN

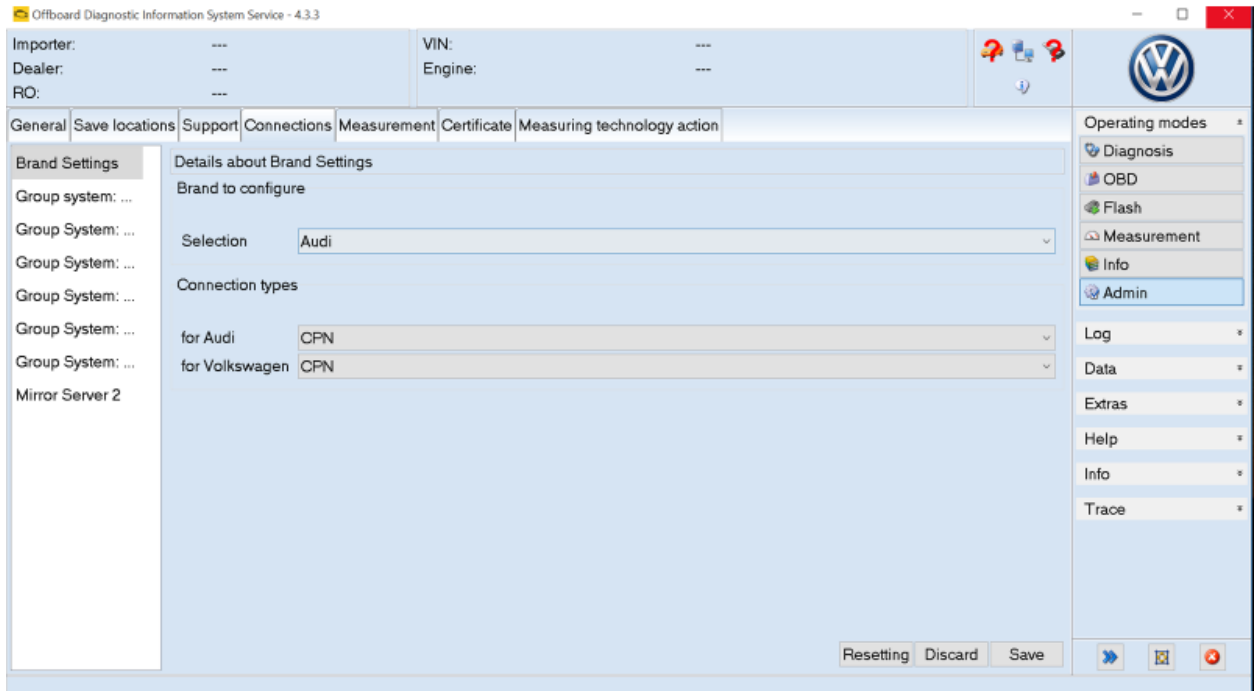Operating modes

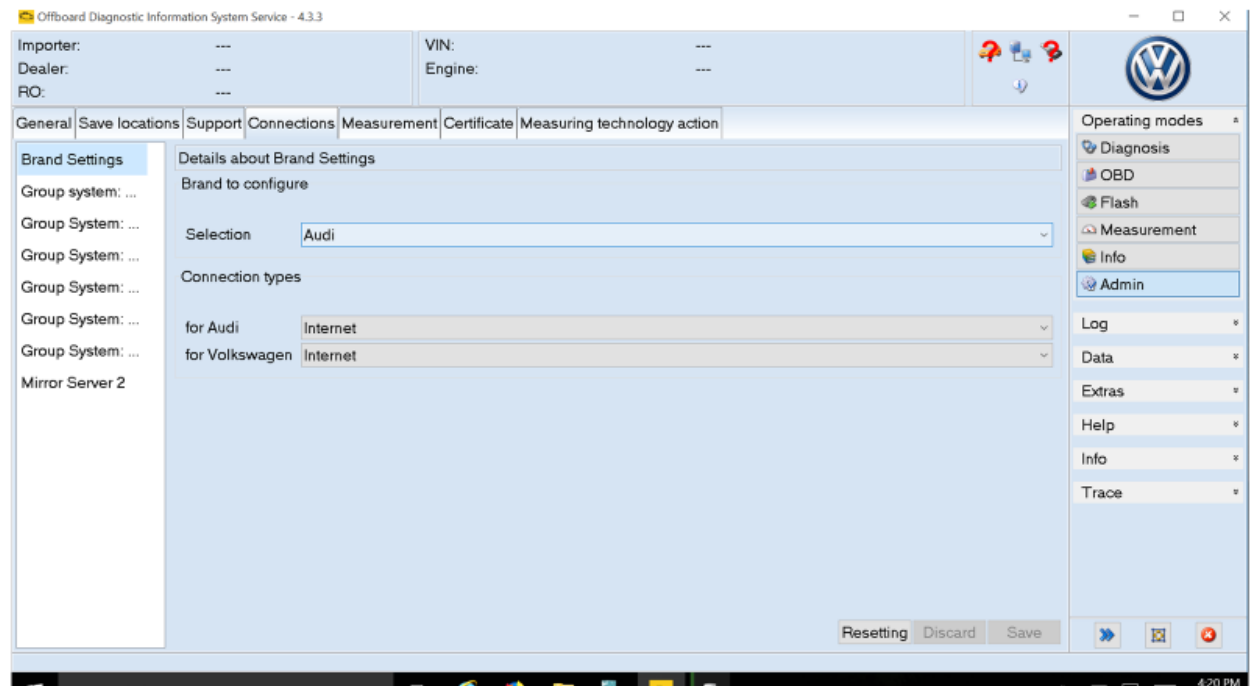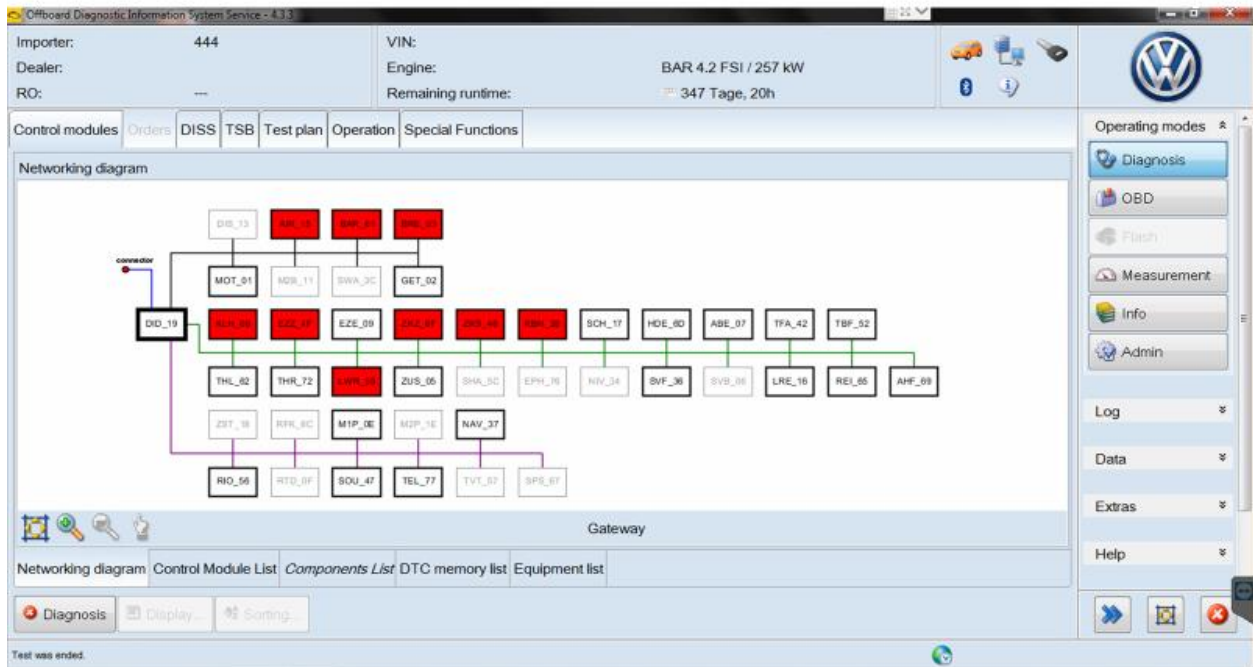Diagnosis
OBD
Flash
Measurement
Info
Admin

Log

Data

Extras

Help

Activate Windows
Go to Settings to activate Windows

From Admin change connection type from cpn

To internet

Control Units in List format

Control Unit List

- Access and Start Permission - 05
- Additional and Auxiliary – 18
- Air Conditioning - 08
- Airbag – 15
- Automatic Light Switch - 49
- Automatic Vertical Headlight Switch – 55
- Auxiliary Fuel Tank – 58
- Auxiliary Heater – 7D
- Battery Charger - 71
- Battery Regulation – 61
- Brake Booster – 23
- Brake Booster Assistance – 43
- Brake Electronics – 03
- Central Locking – 35
- Climate Control Unit Rear – 28
- Clutch Electronics – 12
- Control Head LR – 5E
- Control Head RR – 4E
- Convenience System Central Module – 46
- Dash Panel Insert – 17
- Diagnostic interface For Data-Bus – 19
- Diesel Pump Electronics – 41
- Display Control Unit – 07
- Display Control Unit Rear – 27
- Distance Regulation – 13
- Driver Identification – 1D
- Driver Side Door Electronics – 42
- Drivers Side Boarding Assistance – 63
- Drivers Side Seat Adjustment Rear – 48
- Electro-Drive – 51
- Electronic Central Electrics - 42
- Drivers Side Boarding Assistance – 63
- Drivers Side Seat Adjustment Rear - 48
- Electro-Drive – 51
- Electronic Central Electrics – 09
- Electronic Central Electrics – 4F
- Electronic Roof Controls – 26
- Engine Electronics – 01
- Engine Electronics Conjunction – 31

- Engine Electronics II – 11
- Engine Electronics III – 21
- Four Wheel Drive Electronics – 22
- Immobilizer – 25
- Indicator Unit in Instrument Panel Insert – 7E
- Information Electronics I – 5F
- Information Electronics II – 7F
- Interior Monitoring – 45
- Lane Change Assistant – 3C
- Lane Retention Assistant – 5C
- Left Rear Door Electronics – 62
- Light Control Left – 29
- Light Control Right – 39
- Locking Electronics – 32
- Media Player Position 1 – 0E
- Media Player Position II – 1E
- Media Player Position III – 2E
- Media Player Position IV – 3E
- Navigation – 37
- Operation – 5D
- Parking Aid – 76
- Parking Aid II – 10
- Parking Brake – 53
- Passenger – Side Seat Adjustment - 06
- Passenger - Side Door Electronics – 52
- Passengers Side Boarding Assistance – 73
- Radio – 56
- Radio tuner Digital – 0F
- Radio Tuner Satellite – 1F
- Rear Lid Electronics – 6D
- Rear Seat Adjustment – 66
- Rear Spoiler – 54
- Rear View Camera system – 6C
- Right Rear Door Electronics – 72
- Roof Display Control Head - 6E
- Roof Electronics – 38
- Seat and Steering Column Adjustment – 36
- Self-Leveling Suspension - 34
- Sliding Door Left – 0D
- Sliding Door Right – 78
- Sound System – 47
- Special Function – 3D

- Stabilizers – 64
- Steering Assistance - 44
- Steering Position – 04
- Steering Wheel Electronics – 16
- Suspension Electronics – 16
- Telematics – 75
- Telephone – 77
- Towing Protection – 59
- Traction Control – 24
- Trailer Function – 69
- Transmission Electronics – 02
- Tv Tuner – 57
- Tv tuner Digital – 2F
- Tire Pressure Monitoring – 65
- Tire Pressure Monitoring II – 4C
- Vehicle Control System – 74
- Vehicle Position Detection– 1C
- Voice Amplification – 2D
- Voice Control – 67
- Wiper Electronics – 68
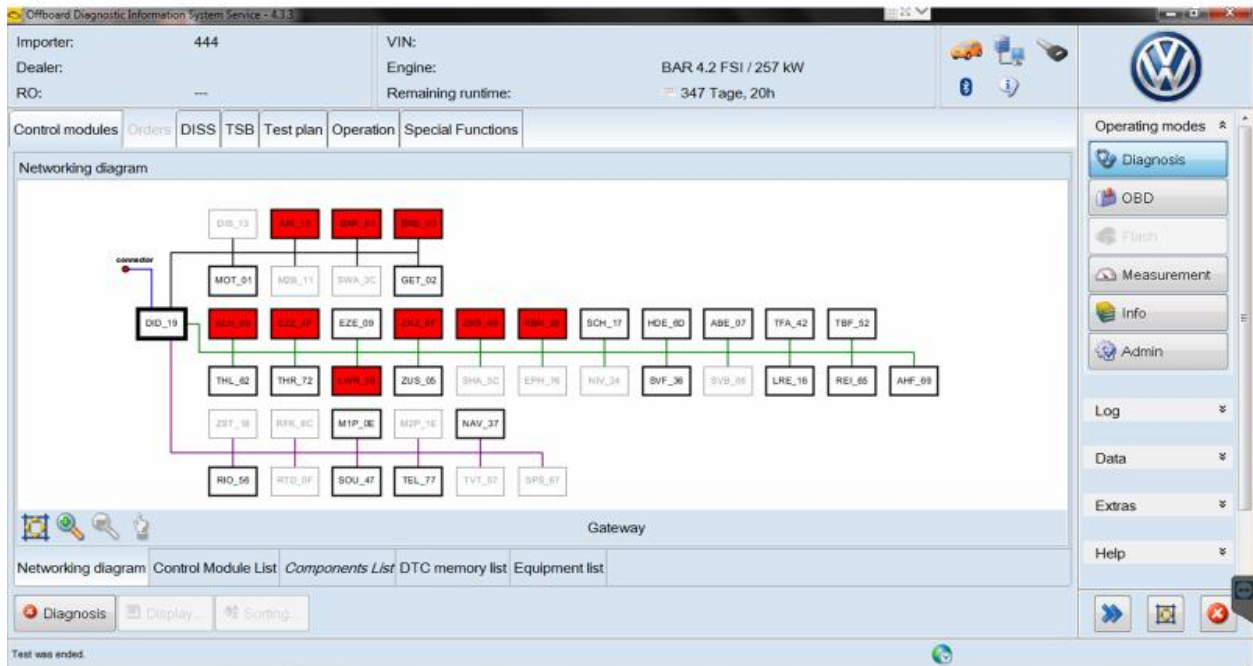
Control Units with fault codes are highlighted in red

Control Units with no faults are out lined in black

Control Unit that might not be fitted or off-line have a gray out line

List two control units that are on-line with no faults

1.

2.

List two control units that are off-line

1.

2.

Your customer comes in with check engine light and said he read on the internet there is an update for his engine control unit. He went to AutoZone and they gave him a print out of his fault codes.

2007 Volkswagen Touareg

Fault Code – P0420

Put in your Vin or manually build your vehicle.

Select Technical Bulletins

Filter
Component   Engine
Damage group   [Damage group]   ⌄

Result

48 items found, displaying 1 to 25.   Number of items per page: 25 ⌄
[First/Prev] 1, 2 [Next/Last]

Issue Id	Topic
2019023/111	0-0-0 - Technical Bulletin Recent Releases - January Engine / Engine operation / Functionality
2002412/7	00-08-04 - Sealants, Liquid Gasket/Lubricants (Silicone) Engine / Engine operation / Functionality
2045492/2	00-16-01TT - Contacting the Parts Helpline Engine / Engine operation / Functionality
2045803/2	00-16-02TT - Mandatory Fastener Replacement Engine / Engine operation / Functionality
2049386/1	00-17-03TT - Various Scan Tool Issues Engine / Operation, engine control / Functionality
2033846/10	00-17-13 - Fuel Additive to Help Prevent Sporadic Misfire Faults (Gasoline Engines Only) Engine / Engine operation / Functionality
2024504/2	01-10-14 - Update Programming to Eliminate DTC P0601 Stored in ECM Fault Memory Engine / Engine operation / Functionality
2016182/5	01-11-11 - MIL ON, DTC P129F and or P310B Stored in ECM Fault Memory Engine / Engine operation / Functionality
2028517/1	01-12-04 - Diagnostic Misfire Assistance after performing Campaign 28F/P1 (Gasoline Engines Only) Engine / Operation, engine control / Control modules, services
2019434/3	01-14-05 - MIL ON, DTCs P0325 or P0327 Stored in ECM Fault Memory Engine / Engine operation / Noises, vibrations
2014077/9	01-14-17 - Update Programming to Eliminate DTC P0601 Stored in DTC Memory Engine / Operation, engine control / Functionality
2037740/1	01-14-20 - Update Programming, MIL ON, DTCs P0420, P0430 Stored in ECM Fault Memory Engine / Operation, engine control / Control modules, services

Model	Engine	Old Software Part No.	Old Software Version	New Software Part No.	New Software Version	SVM Code
Touareg	3.6L BHK	03H906032AG	2533 0689 0212	03H906032AG	6651	**35B1**
Touareg	3.6L BHK	03H906032S	1558 1489 0554 0516 0301 0286	03H906032S	7873	**35B1**
Touareg	3.6L BHK	03H906032CB	1667 1380	03H906032ED	7874	**35B1**
Touareg	3.6L BHK	03H906032ED	3259 2703 2443	03H906032ED	7874	**35B1**

If your engine control unit part number is 03H906032CB with software version 2443 do you need an update?

If your engine control unit part number is 03H906032AG with software version 9097 do you need an update?

If your engine control unit part number is 03H906032LP with software version 3259 do you need an update?

Where do we enter the svm code?
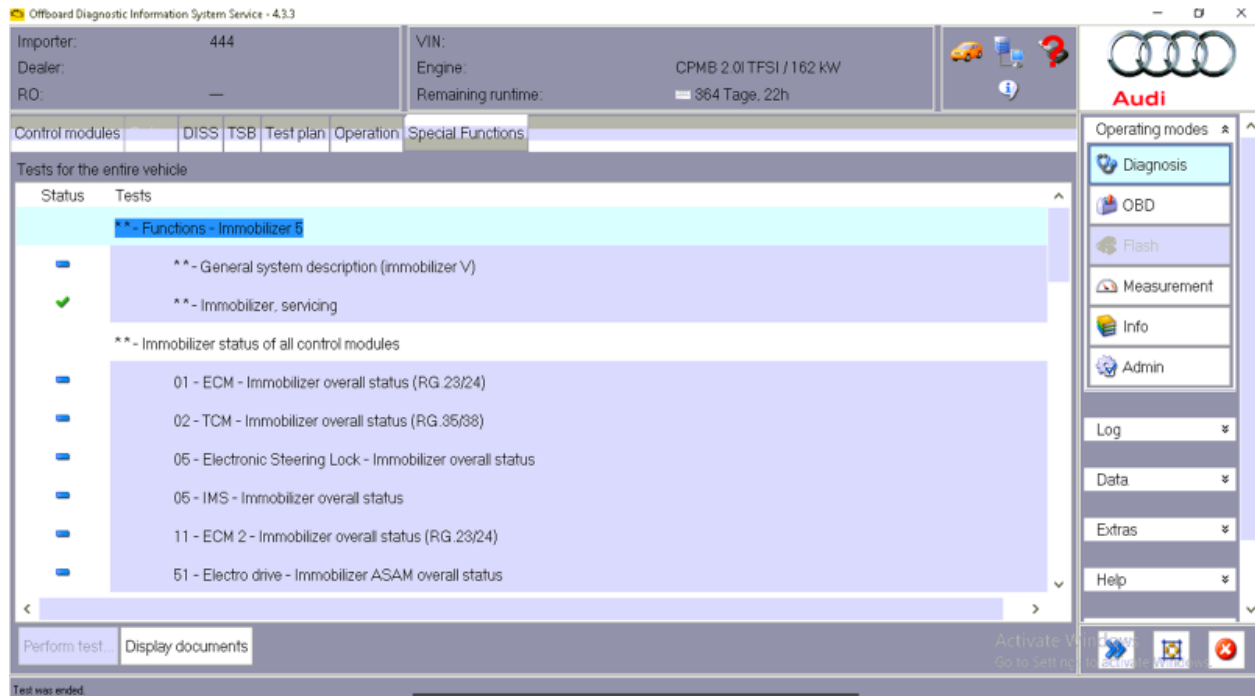
The **Test plan** tab contains a table with available tests. This table has two columns.

Status: this column indicates the status of the test by means of a symbol.

⬛ This symbol indicates that the status is "Test not performed".

✔ This symbol indicates that the status is "OK". This test was successful.

👆 This symbol indicates that the user canceled a test.

✖ This symbol indicates that the status is "not OK". The test failed.

❓ This symbol indicates that the status of the program could not be determined.

✅ This symbol indicates that the diagnosis was completed and the component was repaired.

Used car with no keys how to program keys

2009 Audi a4 2.0t

No fault codes
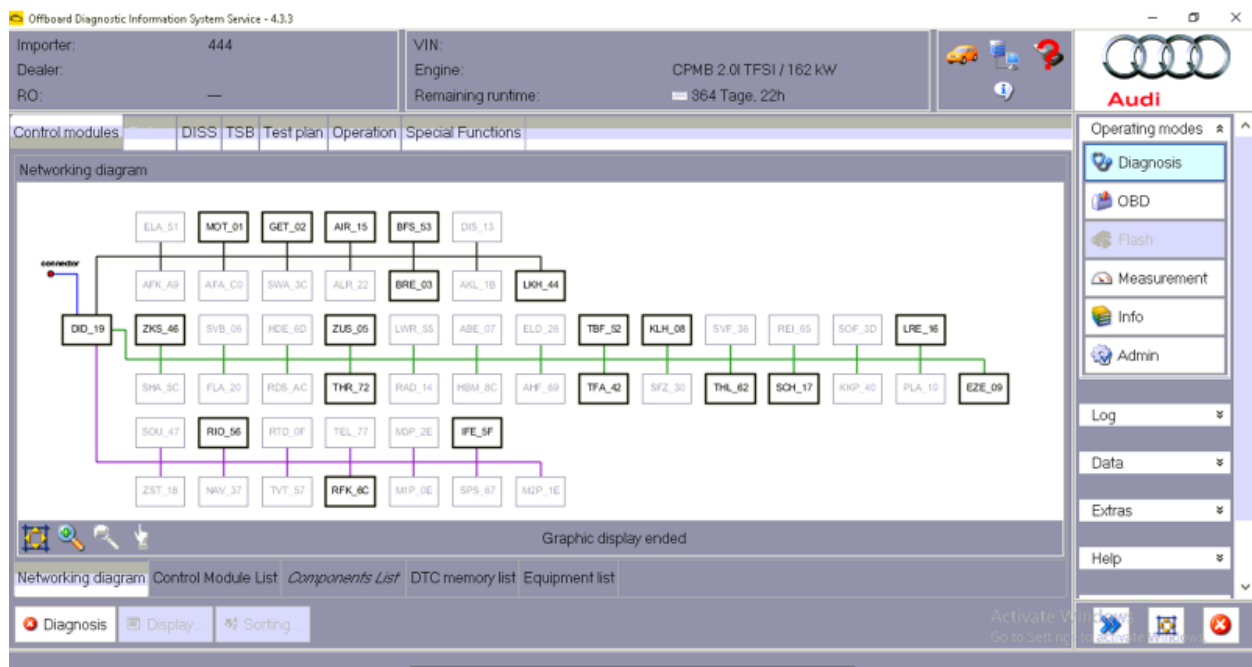
Select Special Functions
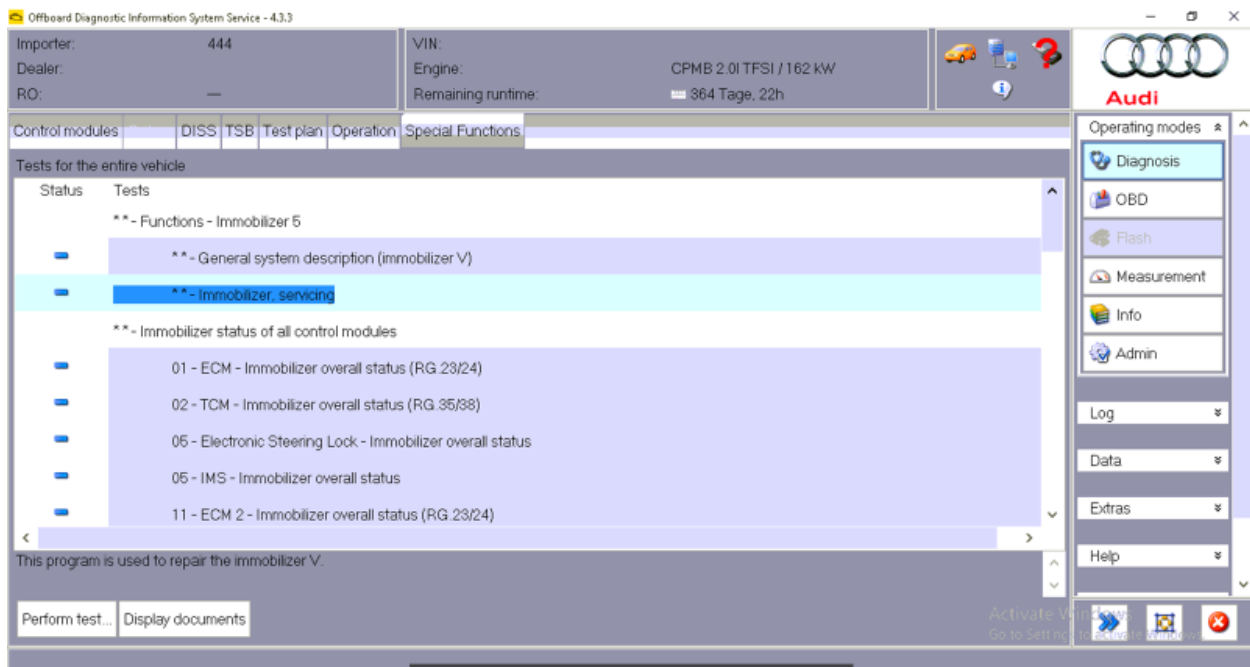
Select Immobilizer, servicing
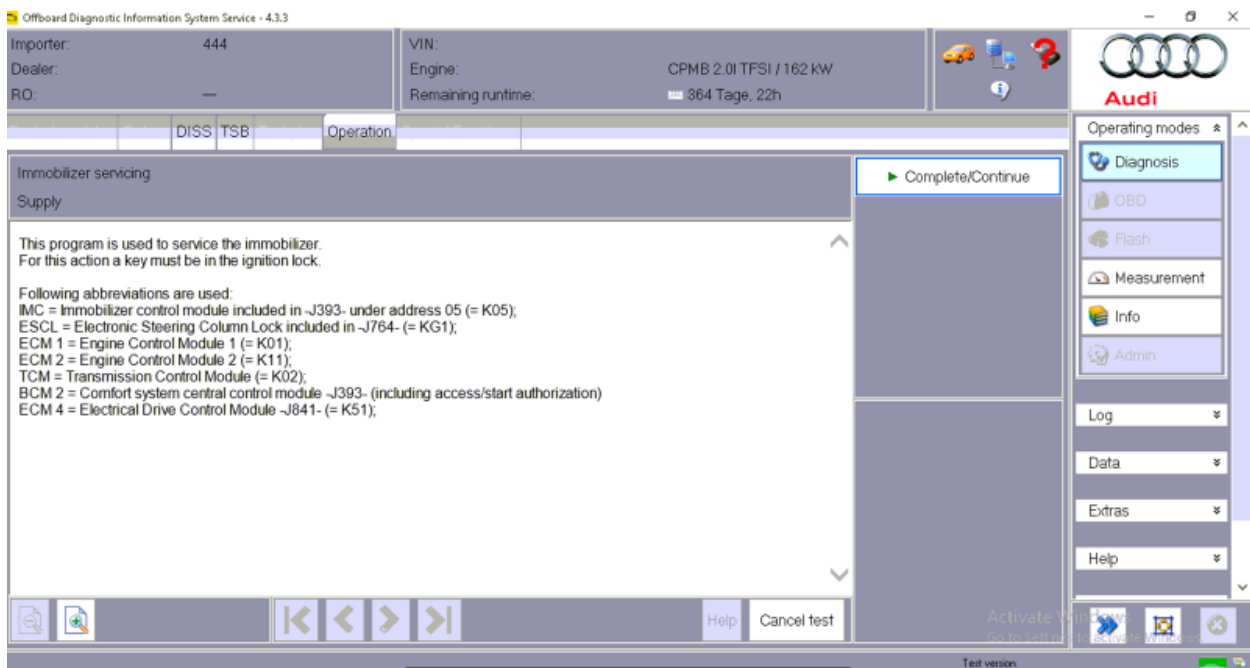
In Immobilizer Servicing you can replace Engine control units, Transmission control units, Steering lock control units and Comfort system control unit.
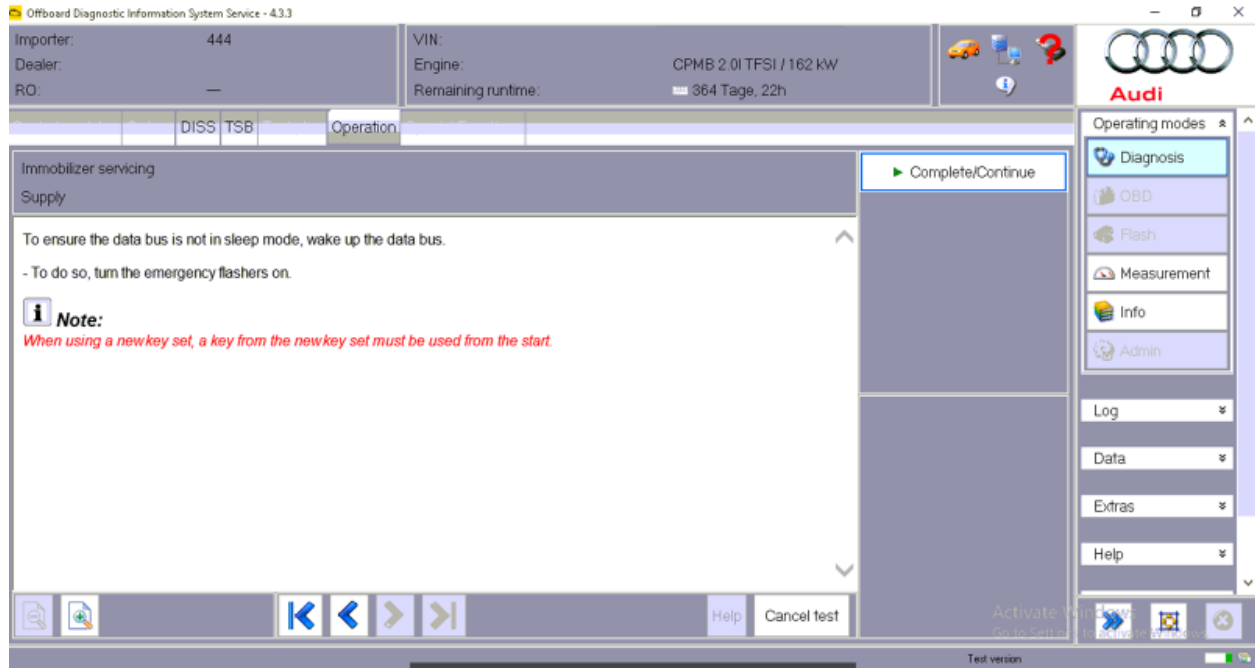
If you have no key on function turn the emergency flashers on to wake up the data bus.
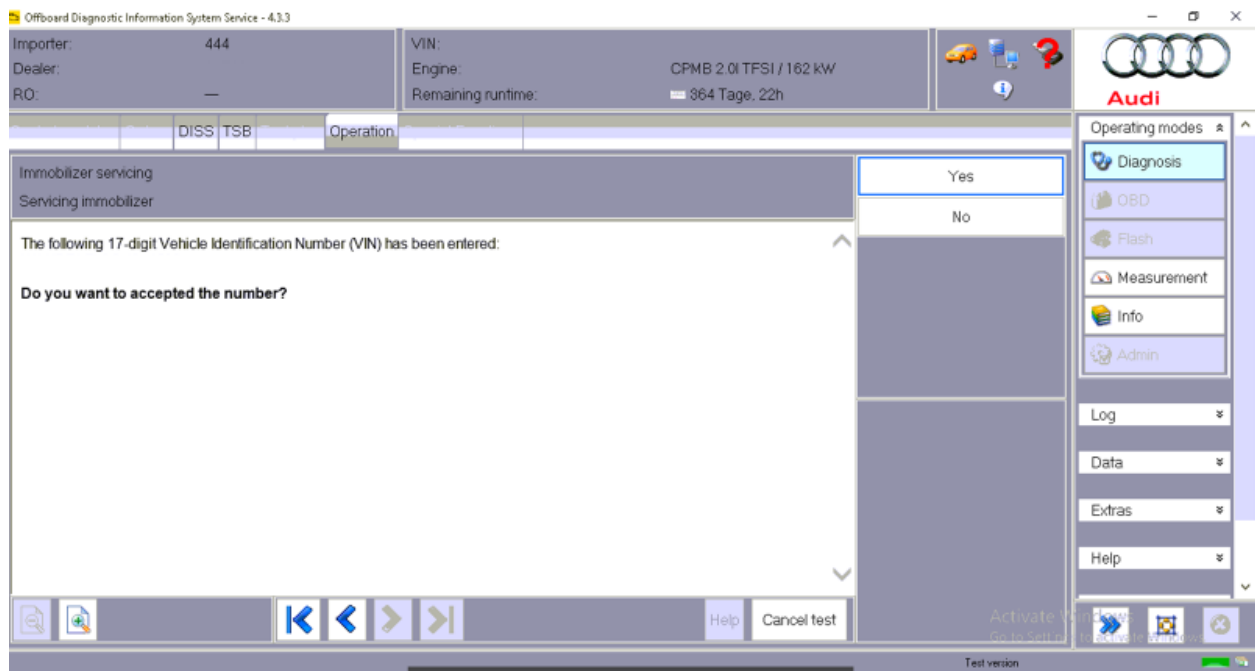
Make sure your vin is correct!
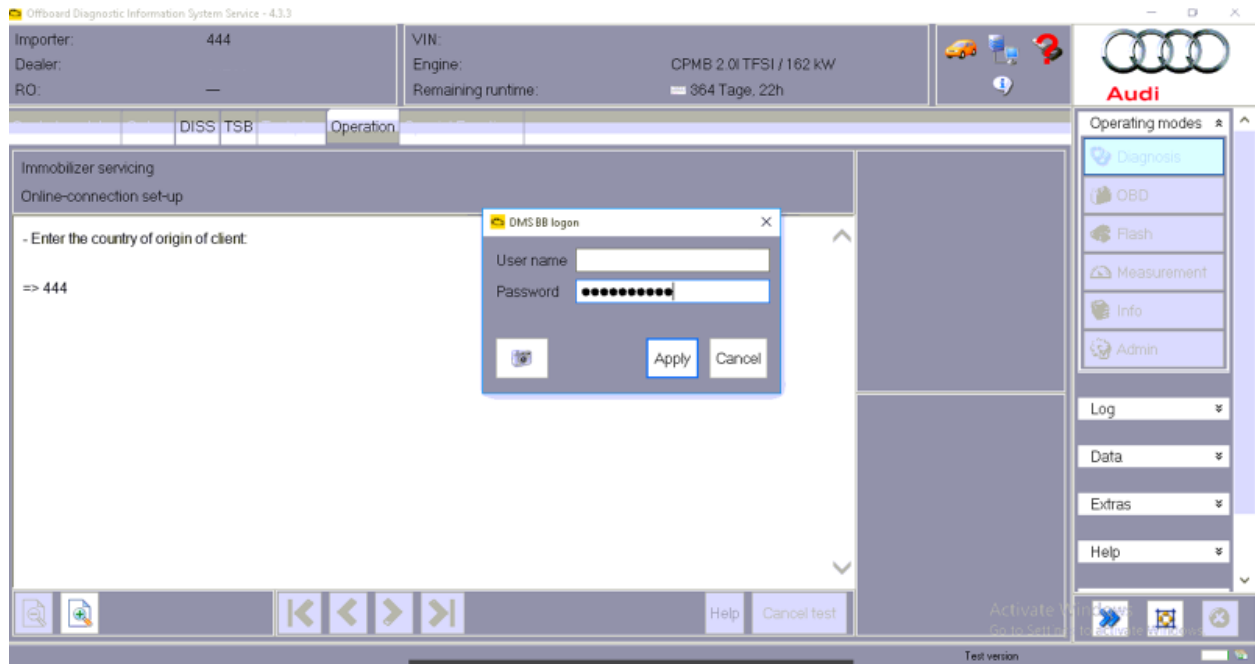
Enter your password
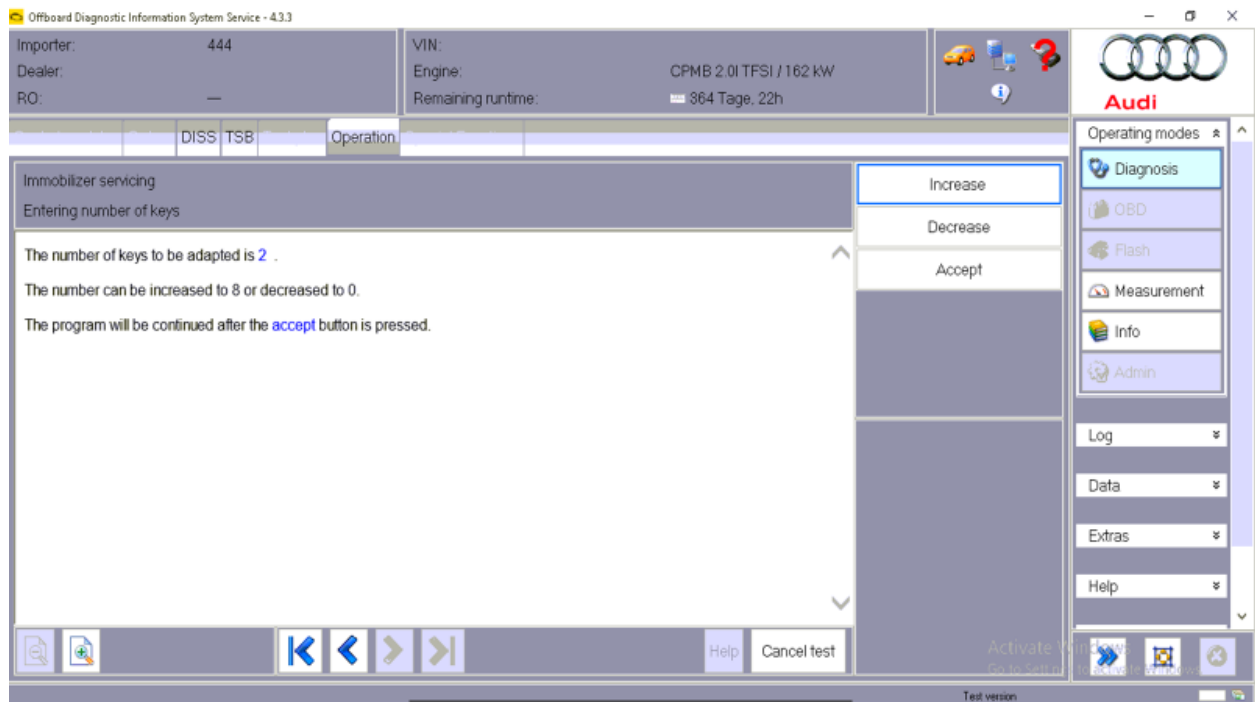
Enter the number of key you want to do. All keys must be programed at the same time.

Offboard Diagnostic Information System Service - 4.3.3

Importer:	444	VIN:	
Dealer:		Engine:	CPMB 2.0l TFSI / 162 kW
RO:	—	Remaining runtime:	864 Tage, 22h

Control modules | DISS | TSB | Test plan | Operation | **Special Functions**

Tests for the entire vehicle

Status	Tests
	**- Functions - Immobilizer 5
⊟	**- General system description (immobilizer V)
✔	**- Immobilizer, servicing
	**- Immobilizer status of all control modules
⊟	01 - ECM - Immobilizer overall status (RG.23/24)
⊟	02 - TCM - Immobilizer overall status (RG.35/38)
⊟	05 - Electronic Steering Lock - Immobilizer overall status
⊟	05 - IMS - Immobilizer overall status
⊟	11 - ECM 2 - Immobilizer overall status (RG.23/24)
⊟	51 - Electro drive - Immobilizer ASAM overall status

Operating modes

- Diagnosis
- OBD
- Flash
- Measurement
- Info
- Admin

Log
Data
Extras
Help

Perform test... | Display documents

Test was ended.

✔ This symbol indicates that the status is "OK". This test was successful.

Test Plan

Testing system not listed in fault codes
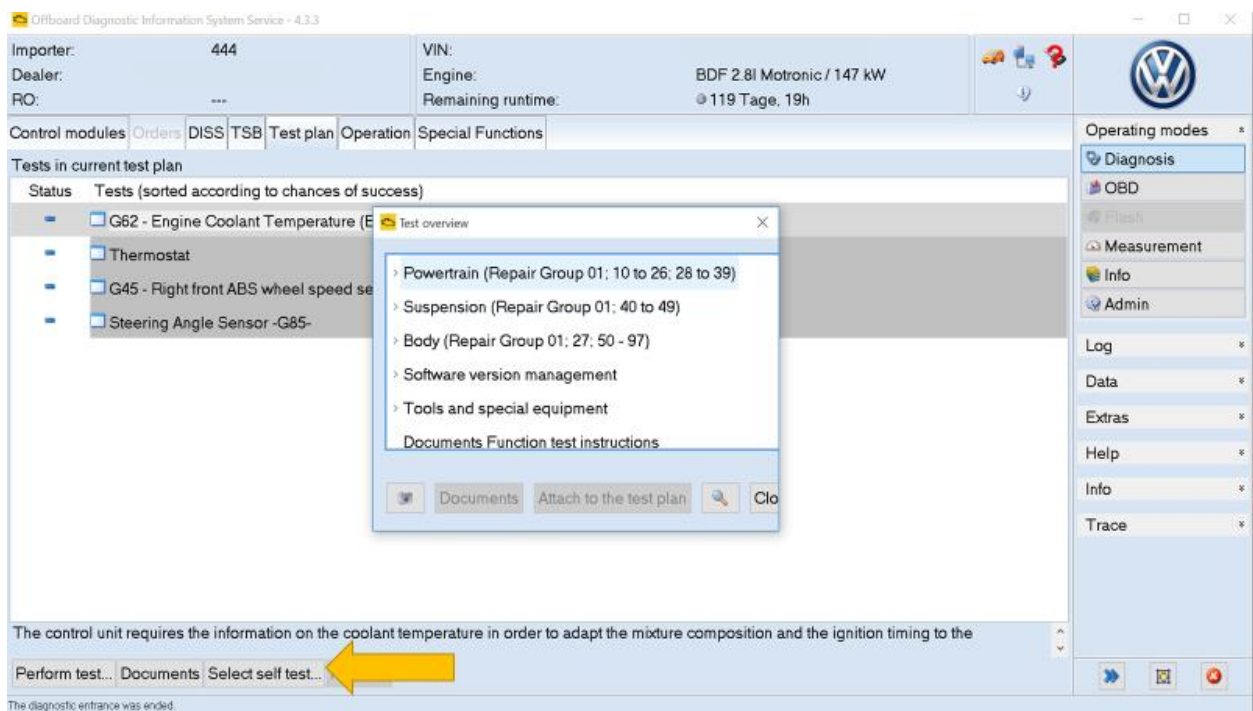
Older Vehicles with immobilizer inside cluster functions
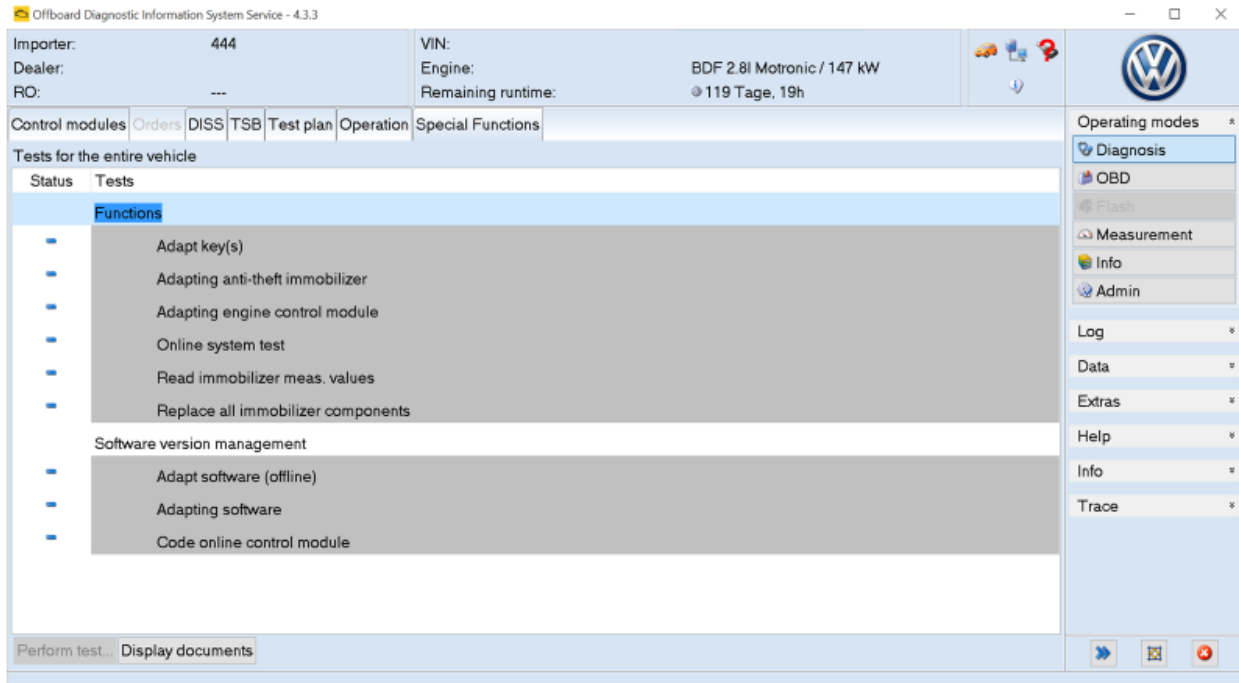
Key programming

1. Go to the engine ECU -> click extract pin and wait for the pin code to be extracted and write this down

2. Go to access and start ECU

3. Turn the key to the s-contact position

4. Click manual functions -> security access -> level 3

5. Edit the code to the pin code from the engine ECU and click login

6. Turn the key to the terminal 15 position

7. Click adaptations -> channel 21

Live Data Readings
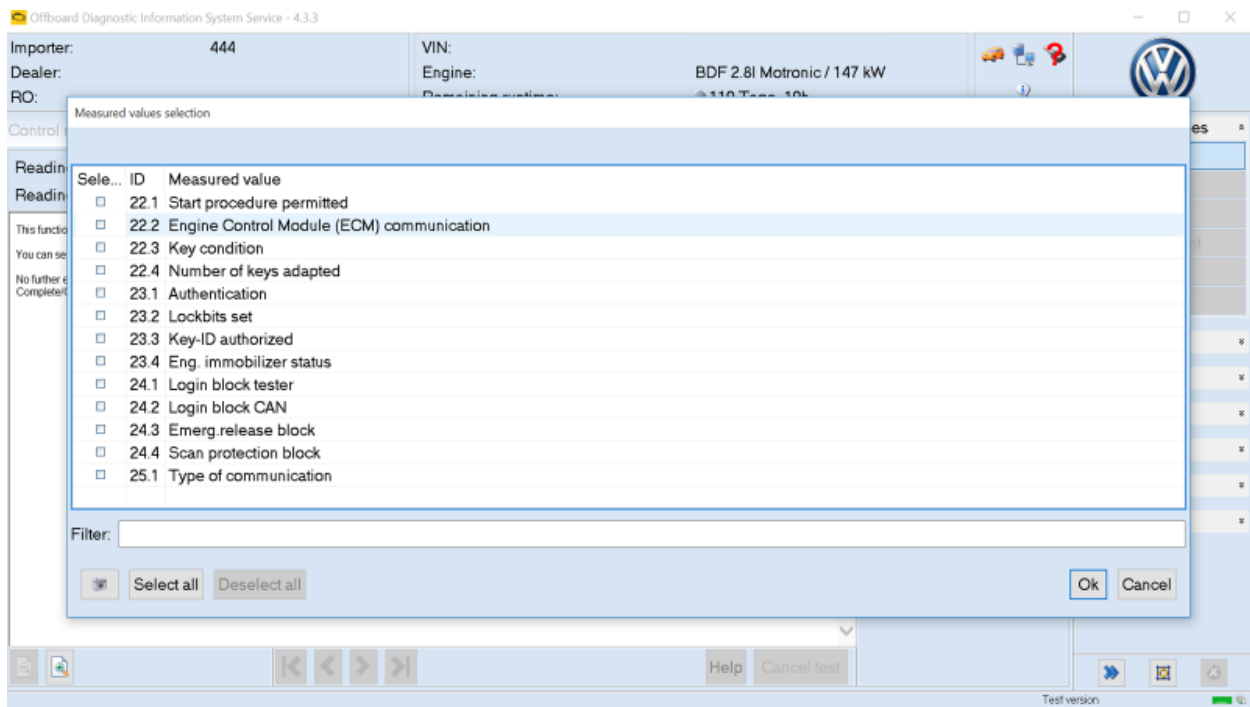
Key Adaptation Tip - KESSY Equipped
Model(s) Year Eng. Code Trans. Code
VIN Range
From
VIN Range To Golf/GTI, EOS, Jetta Sedan,Jetta SportWagen,Tiguan
2011-2013 Passat, Beetle 2012-2013

Technical Background

Note:
All keys must be present during key adaptation. Immobilizer reader coil is ALWAYS located in the
steering column. DO NOT remove Start/Stop button mounted in center console to access reader coil.

When adapting keys on a vehicle equipped with KESSY, it is recommended to remove the immobilizer
reader coil from behind round cover on steering column trim and insert key inside the reader coil. The
steering column trim does not need to be completely removed to access reader coil. For vehicles with the
Start/Stop button on the steering column, the Start/Stop button assembly can be removed from column
trim without disassembling trim. Start/Stop button connector must be disconnected to allow reader coil to
be removed from around button assembly. Start/Stop button should be reconnected during key
adaptation.

Technical Service Bulletin Transaction No.: 2050648/2
01-18-02TT - Cruise Control Inoperative with possible DTC P1647 Release date: Mar 8, 2018

Condition

Cruise Control Inoperative with possible DTC P1647
Model(s) Year Eng. Code Trans. Code
VIN Range
From
VIN Range To
Golf, GTI 2015-2017

Technical Background

Cruise control inoperative, with fault P1647 stored in the Engine Control Module -J623-.

Production Solution

NA.

Service

• Connect a Scan tool.
• Go to Special Functions.
• Go to SVM Software Version Management.
Perform the following tests:
Control module software configuration and FES function clearing system.
Select Re-create Function for AW 19.

2006 Audi A6 MMI

Most Bus Test

How Ring Break Diagnosis Works

After ring break diagnosis is initiated, the diagnosis manager sends an impulse to the control modules over the diagnosis wire.

In response to this impulse, all of the control modules in the ring use the transmitters in their fiber-optic transceivers to send light signals through the fiber-optic cable.

At the same time all control modules check:

- Their voltage supply and internal electrical functions
- Receipt of the light signals from the previous control module in the ring

Each control module connected to the MOST fiber-optic data bus answers according to timing programmed into the software.

Using the timing between the start of the ring break diagnosis and receipt of the answer, the diagnosis manager recognizes which control module sent the answer.

The control modules connected to the MOST fiber-optic data bus send two messages after the start of the ring break diagnosis:

- "Control module is electrically OK" means that the electrical functions of the control module, such as the voltage supply are OK
- "Control module is optically OK" means that it receives the light signal through its photodiode from the control module that precedes it in the ring

From this information the diagnosis manager can recognize:

- Whether there is an electrical fault in the system (voltage supply faulty)
- Between which of the control modules the optical data transmission is interrupted

Diagnosis Wire

16-Pin Data Link Connector (DLC)

Interruption of the Fiber-Optic Cable
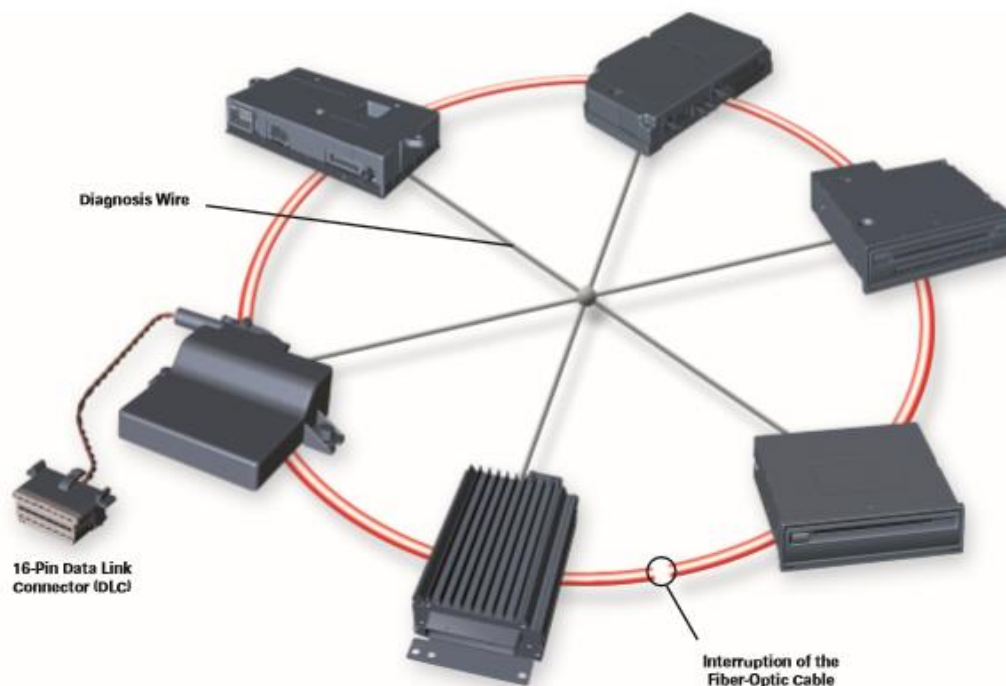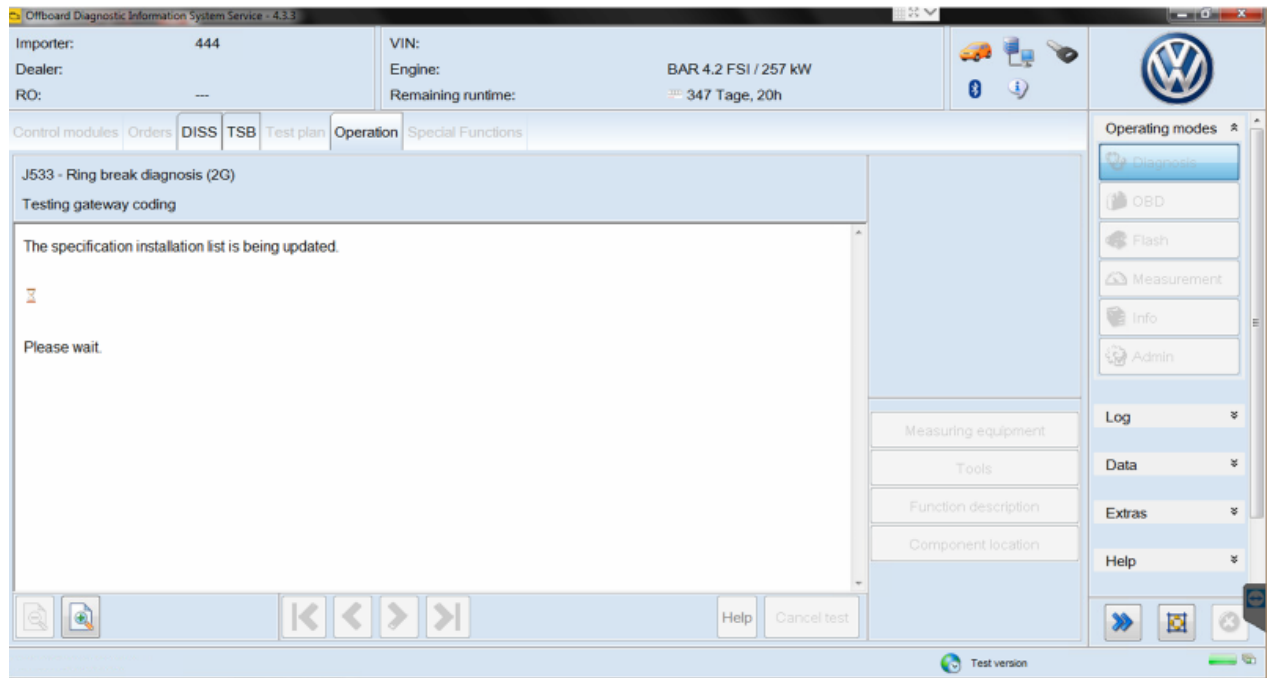
Odis Checks who is on bus.
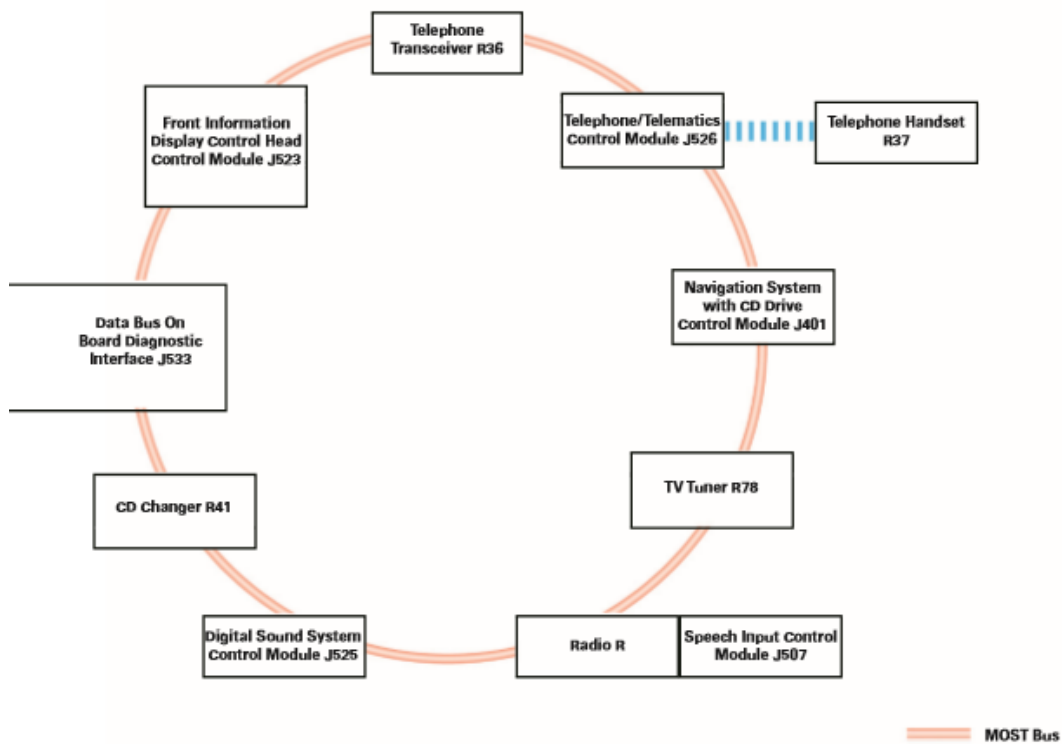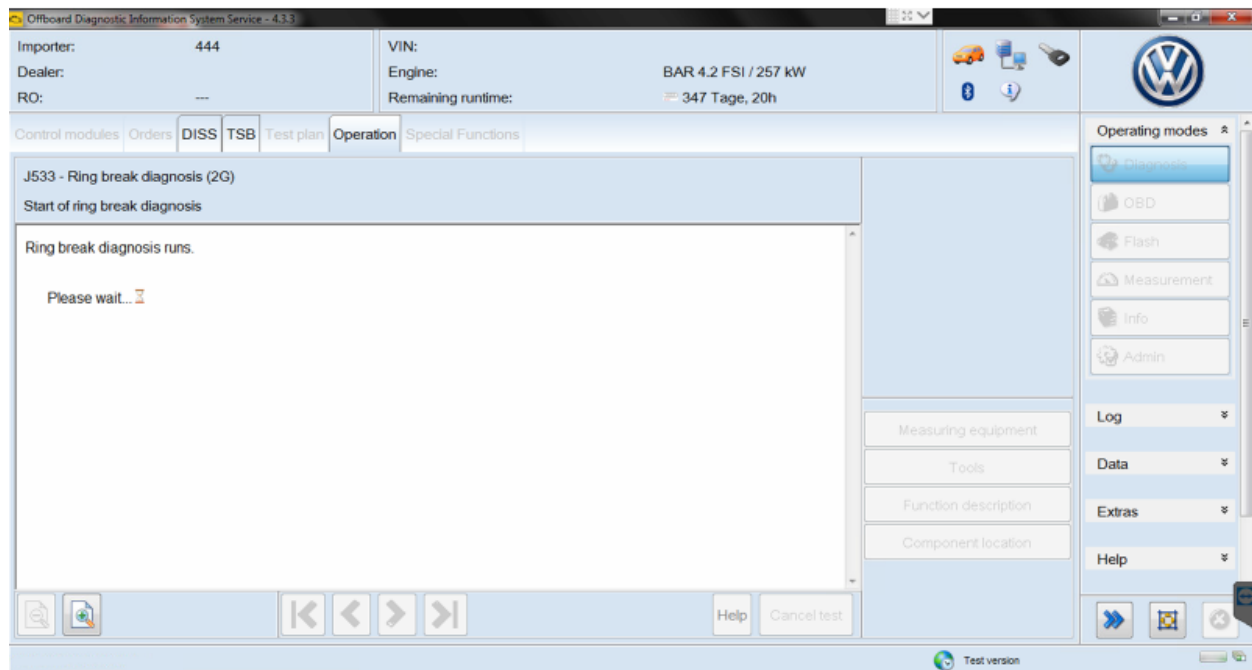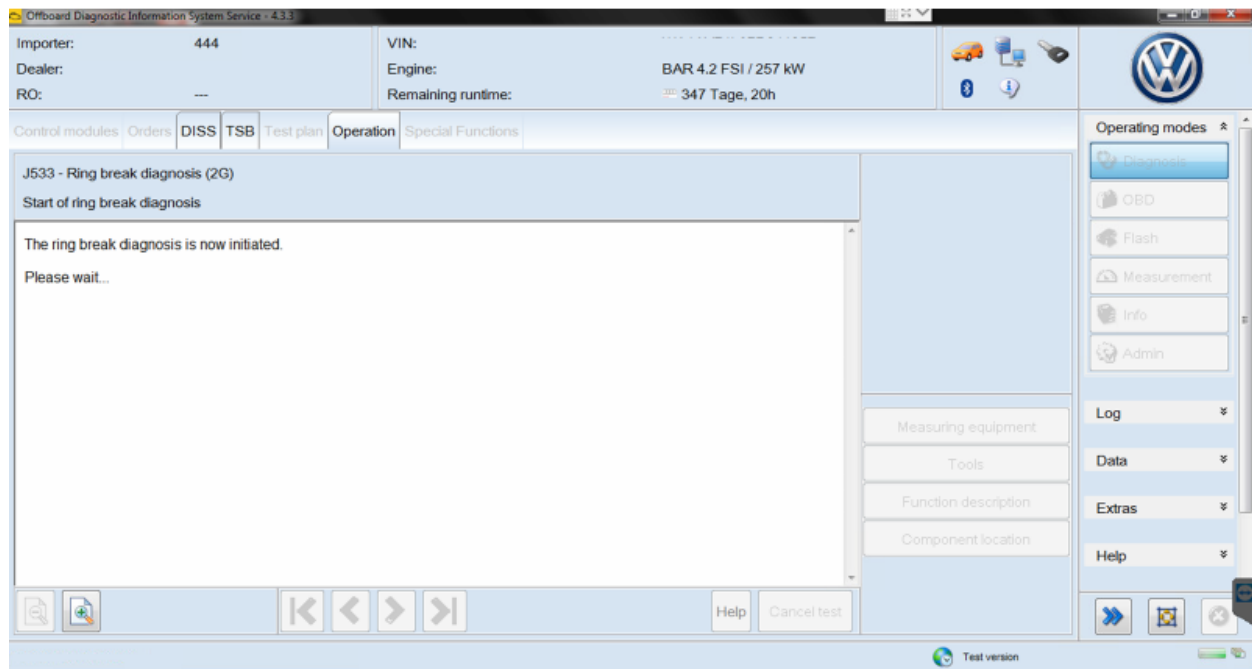
Odis will now tell you who took too long to answer

Controller	Electrical	Optical
19-CAN Gateway	OK	OK
07-Control Head(High/D3)	OK	OK
0E-Media Player 1	OK	OK
77-Telephone	OK	OK
47-Sound System	OK	ERROR
67-Voice Control	OK	ERROR
56-Radio	OK	OK
37-Navigation	OK	OK
0F-Digital Radio(SAT)	OK	OK

Don't forget your Most bus test cable!

Master Functions

J533 is the master for:

- Drivetrain CAN continued operation
- MOST ring break diagnosis
- Data bus system Sleep and Wake-Up operation

Drivetrain CAN Continued Operation

Operation of several control modules continues after the ignition is switched OFF. J533 broadcasts a command to end operation to the Drivetrain CAN following an after-run period.

MOST Ring Break Diagnosis

J533 is the diagnosis manager for the MOST bus (discussed later in this book). The interface is responsible for Ring Break Diagnosis and sends the diagnosis data in the MOST bus to J533.

Ring Break Diagnosis for the MOST bus is initiated with a Final Control Diagnosis Output Check Diagnosis in J533.

Data Bus System Sleep and Wake-Up Operation

J533 is the master for Sleep and Wake-Up modes. When all the control modules on the Convenience CAN indicate "sleep readiness," the Gateway sends the sleep command to the CAN-bus and the control modules change to sleep status. The sleep status of the individual control modules and bus systems can be read in the measuring value blocks of J533.

Diagnostic Wire

Data Bus On Board Diagnostic Interface J533

Data Link Connector (DLC)

Break in Optical Fiber
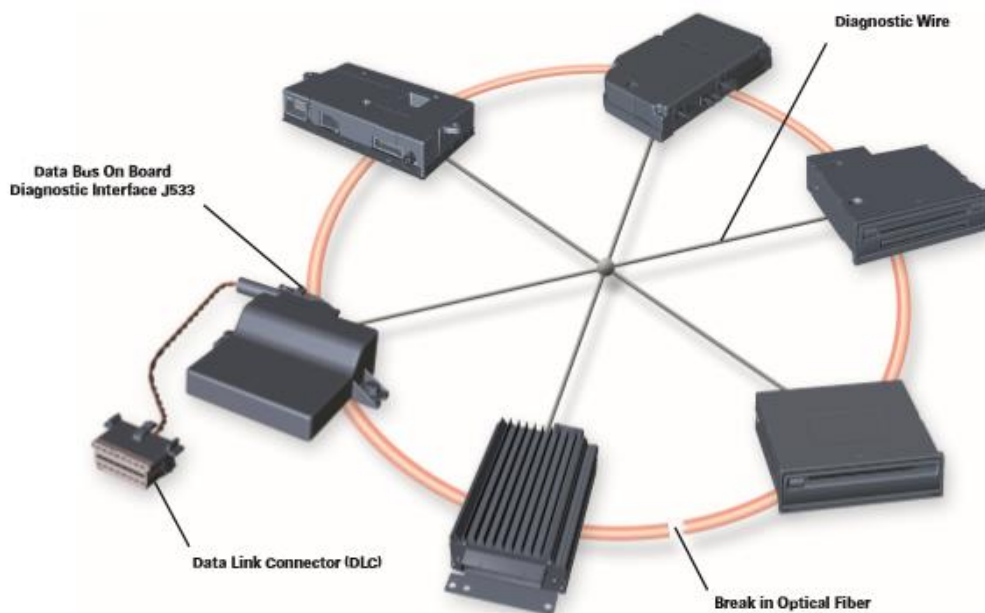
Audi A8 mmi coding
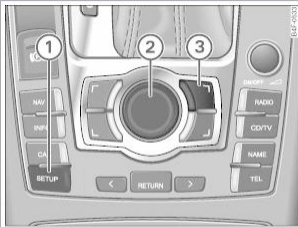
(07) Display Control Unit

adaptation channel 1

Channel 001: Installation List I (MMI Functionality)

+00001 = Adaptive Cruise Control installed (PR-8T4)

+00002 = Ambient Lighting installed (PR-QQ1)

+00004 = Acoustic Parking System Front installed (PR-7X2)

+00008 = Acoustic Parking System Rear installed (PR-7X1/7X2)

+00016 = Tire Pressure Monitoring System installed (PR-7K3/7K4/7K5)

+00032 = Sunroof installed (PR-3FE/3FR)

+00064 = Adaptive Air Suspension installed (PR-1BK)

+00256 = Rain Sensor installed (PR-8N3)

+01024 = Seat Adjustment Front installed (PR-3PN)

+02048 = Seat Adjustment Rear installed (PR-5Z1)

+04096 = Multi-Function Steering Wheel installed (PR-1XW)

+08192 = Lane Change Assistant installed

+16384 = Lane Holding Assistant installed

MMI system reset starting

A MMI-system-reset offers simple immediate help during a software-crash of the MMI-system.

- Hold function button 1 (setup), control knob 2 and right upper control button 3 simultaneously until the MMI-system is switched-off.

- Release buttons => MMI-system restarts.

ℹ️ *NOTE:*

For right hand steering the button combination is mirror reversed.

Print   Close

Reset MMI after any work performed.

Newer MMI System Reset and Functions

Screenshot

A screenshot is a snapshot of the current display on the MMI screen. To save it, an SD card has to be inserted in the SDF card reader and the following buttons pressed and held one after the other:

▸ Bottom left softkey
▸ Bottom right softkey

To indicate that the screenshot is being saved, the current screen display disappears momentarily (white screen).
Screenshots cannot be created on the Entry MIB and Entry plus MIB.

Key combination for screenshot

618_065

System reset on Entry MIB

To restart the system on the Entry MIB, the following buttons must be pressed simultaneously and held for at least five seconds:

▸ ON/OFF switch
▸ Forward button

Key combination for reset   618_066

Key combination for Service on E380

System reset

To restart (reset), the following buttons must be briefly pressed simultaneously:

- Rotary pushbutton
- Top right soft key
- MENU

Button combination for system reset

618_063

Engineering menu

The Engineering menu is required, for example, to install a software update. To access the menu, the following buttons must be pressed one after the other and held down:

- BACK
- Top left softkey

Button combinations for the Engineering menu

618_064

Climate Control Head Replacement
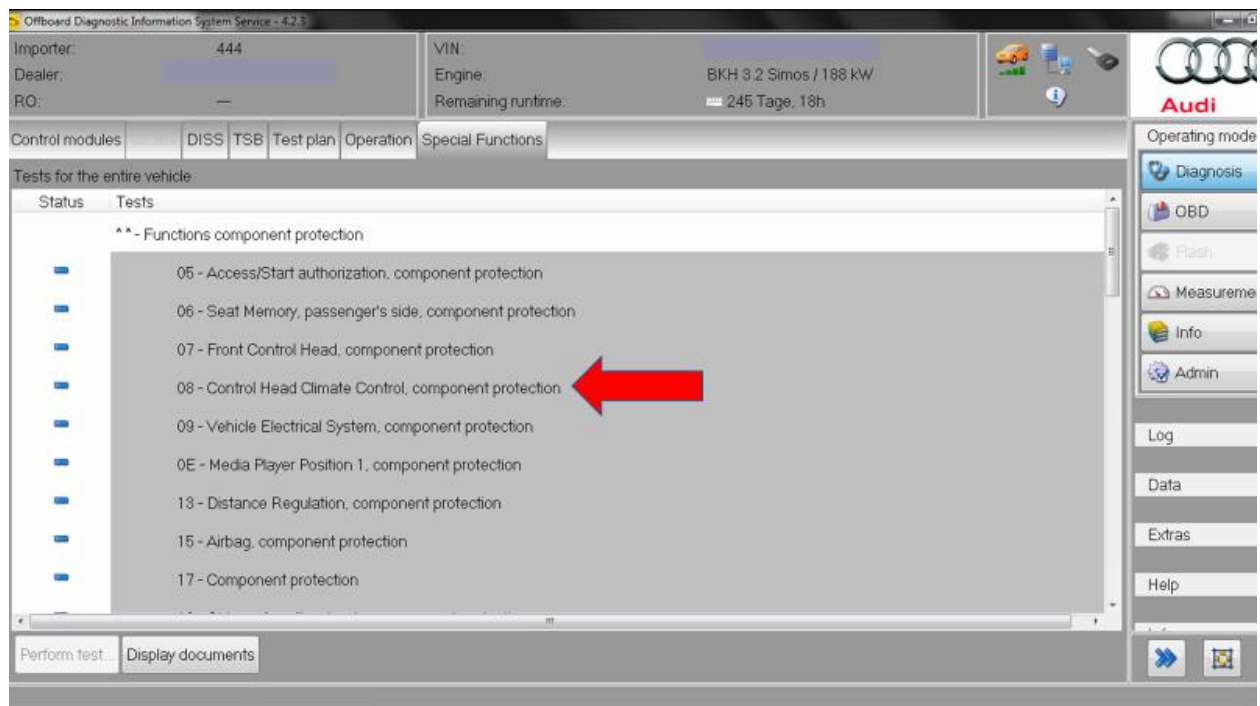
Under the Special functions select Control Head Climate Control component protection to bring control unit in to service.

If you still have a problem with a/c now working after control head replacement check your fault codes, if no fault codes look for live data reading with a/c switched on and look at chart below.

Ac Shut off Codes

0 - no ac shut off Compressor should be running

1 - Excessive refrigerant pressure to much R134a or faulty high-pressure switch

2 - Cooling fan fault Possible faulty fan or power supply to fan

3 - Refrigerant pressure to low Check R134a quantity, possible leak

5 - No engine speed detected Start engine/check engine speed live data

6 - Econ button depressed Switch of econ button

7 - Air conditioning off No blower speed selected

8 - Outside air temp to low Below 2.5 degrees, check live data

10 – low voltage Vehicle voltage below 9.5 volts

11 – Engine temperature too high Temp above 118 degrees, Temp sender fault

12 - Engine control unit Off ECU turned off, check engine faults

13 – High Voltage Vehicle voltage over 16 volts

15 - Coding Incorrect Check engine and ac coding if correct

16 - Compressor activation issue Check wiring to compressor

17 – Pressure sensor fault Checking pressure sensor and wiring

18 – Speed switched off Engine Rpm over 3000 and vehicle speed below 10 mph

19- Electronic central electrics off check for faults in electronic central electrics

20 – Output test Exit output test mode

Transmission Control Unit Unlocking
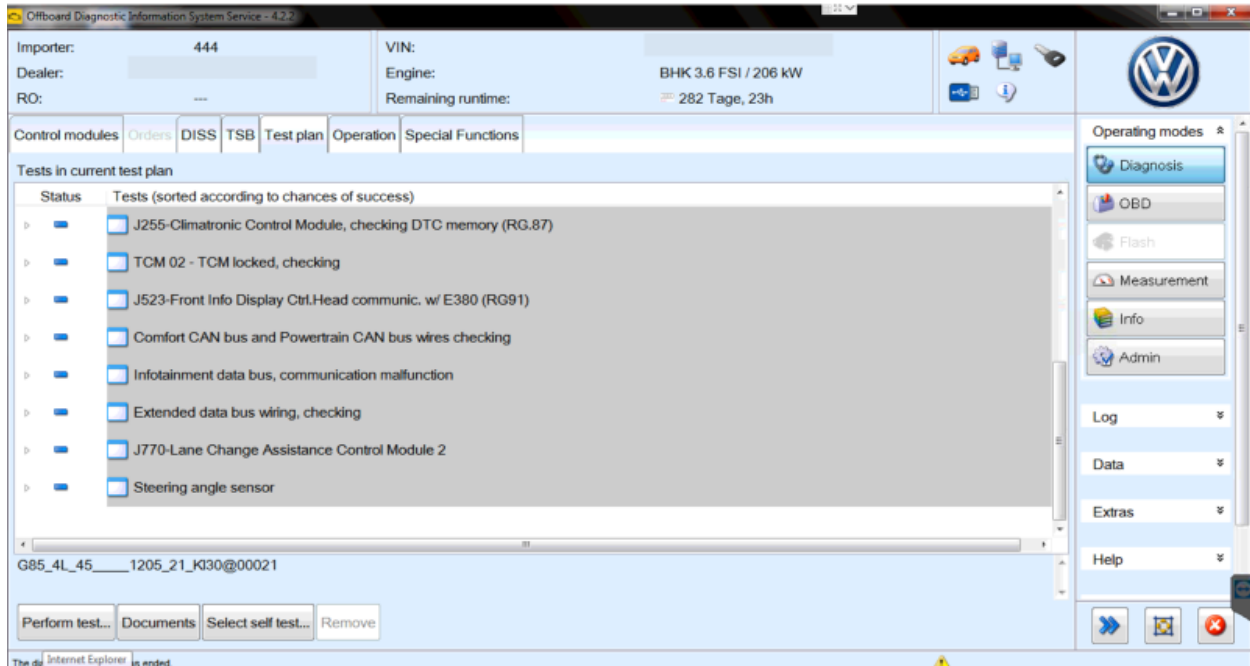
From the test plan select TCM locked, checking
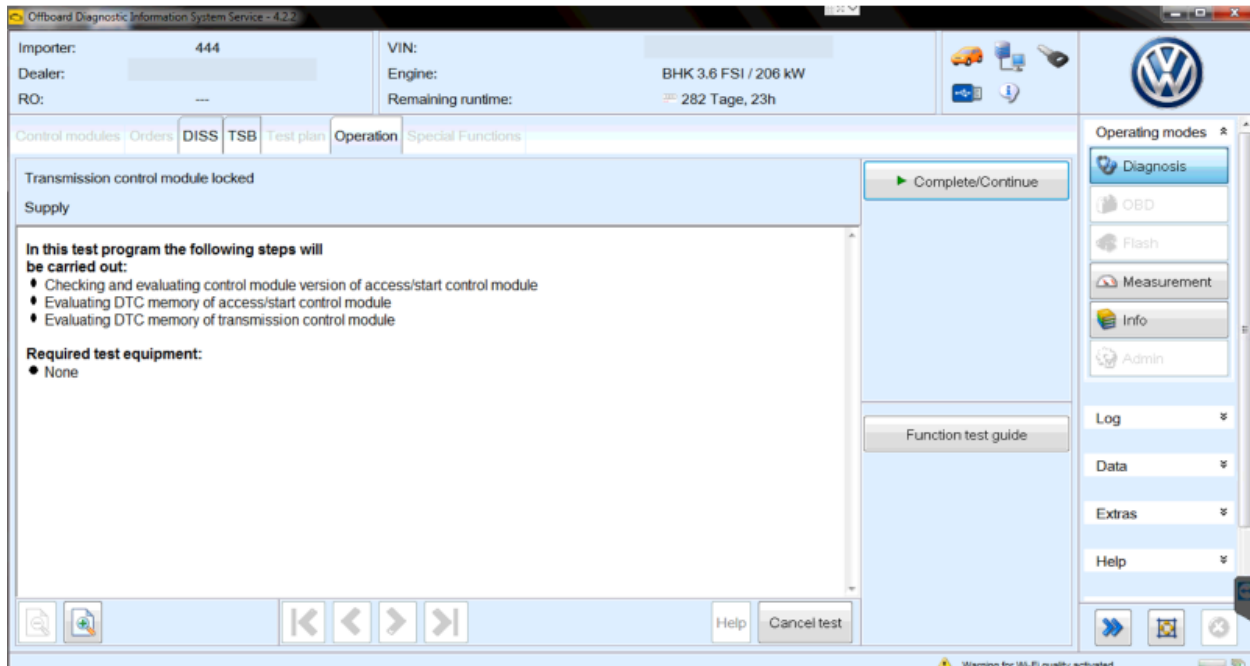
The tool will go through a few checks
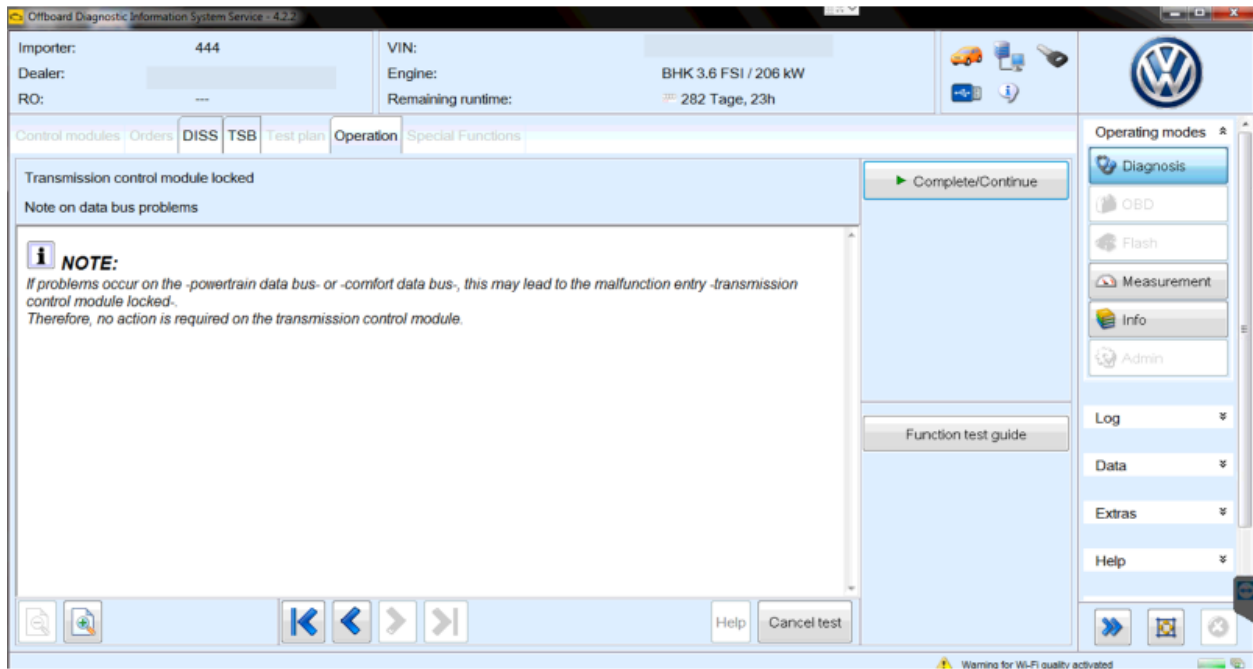
Then it with check the J518 access/start control unit
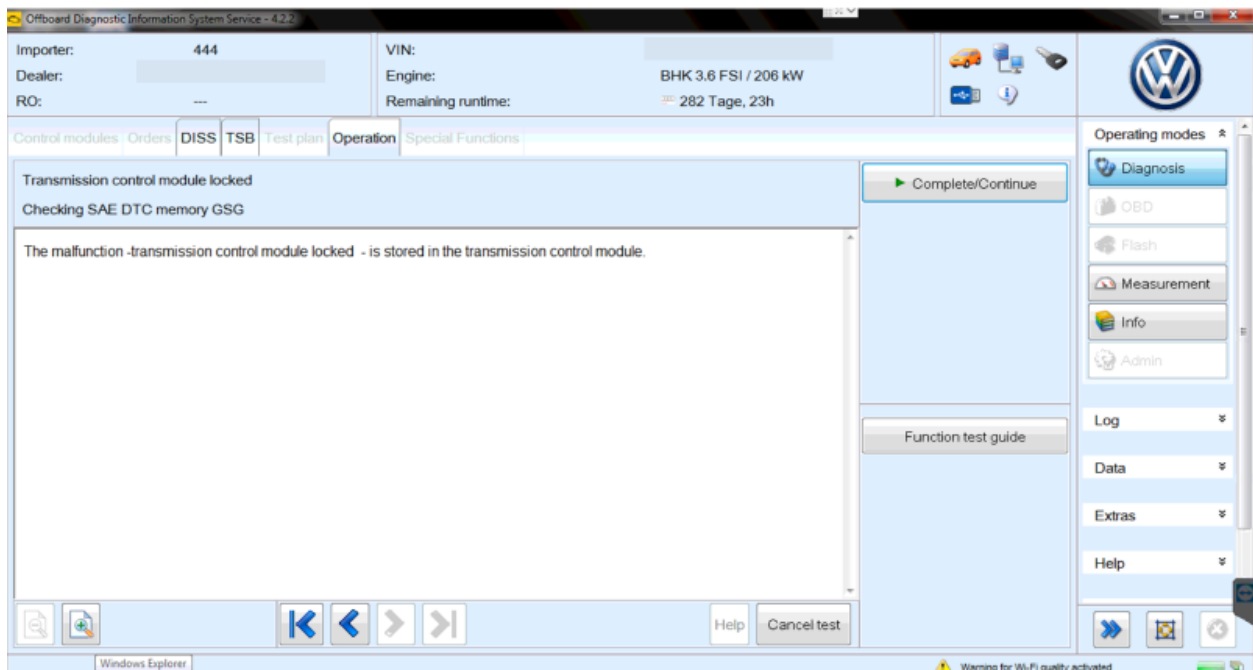
It will let you know the Tcm is locked
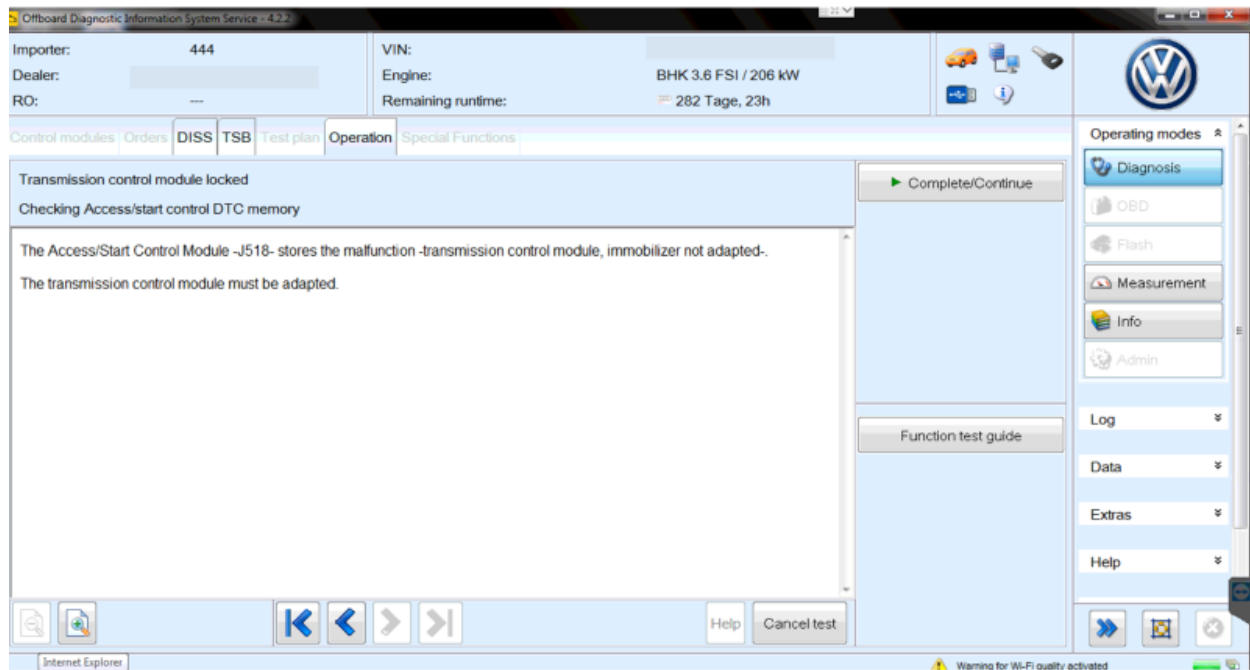
Then it will want to match the transmission to the immobilizer
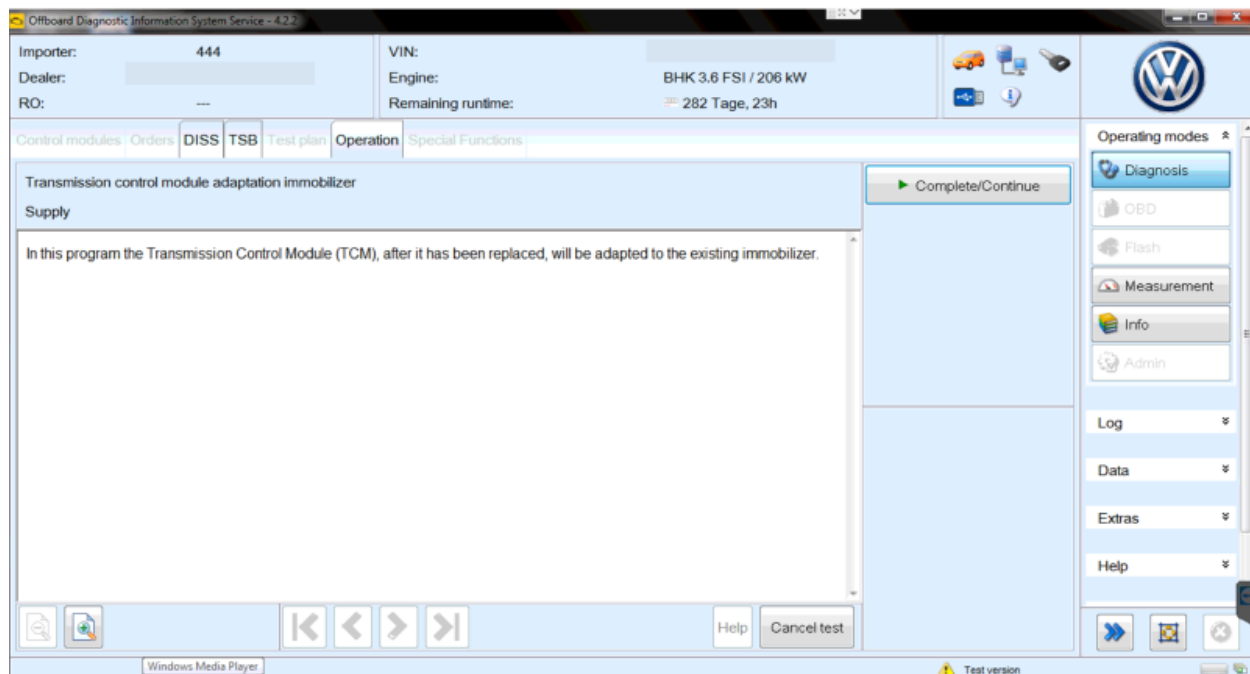
Reading immobilizer data then you all done.

Non-DSG Transmission Basic Settings

1. Select Manual Functions
2. Select Adaptions
3. Adaption Channel 01

DSG Transmission Basic Settings

Prerequisites:

Selector Lever in P

Engine ON (Idling) for one minute or more

Brake Depressed at all times

Parking brake

Engaged Calibration

1. Select Manual Functions
2. Select Adaptions
3. Adaption Channel 61
4. Toggle Basic settings
5. Wait for Transmission to stop Making noise

Synch, Point, Measurement

6. Select Manual Functions
7. Select Adaptions
8. Adaption Channel 60

9. Toggle Basic settings
10. Wait for Transmission to stop Making noise

Clutch Adaptation

For Control Module Software Lower than 0800

11. Select Manual Functions
12. Select Adaptions
13. Adaption Channel 62
14. Toggle Basic settings
15. Wait for Transmission to stop Making noise

For Control Module Software Higher than 0800

16. Select Manual Functions
17. Select Adaptions
18. Adaption Channel 67
19. Toggle Basic settings
20. Wait for Transmission to stop Making noise

Clear fault codes and road test after basic setting

Access/Start Module J518
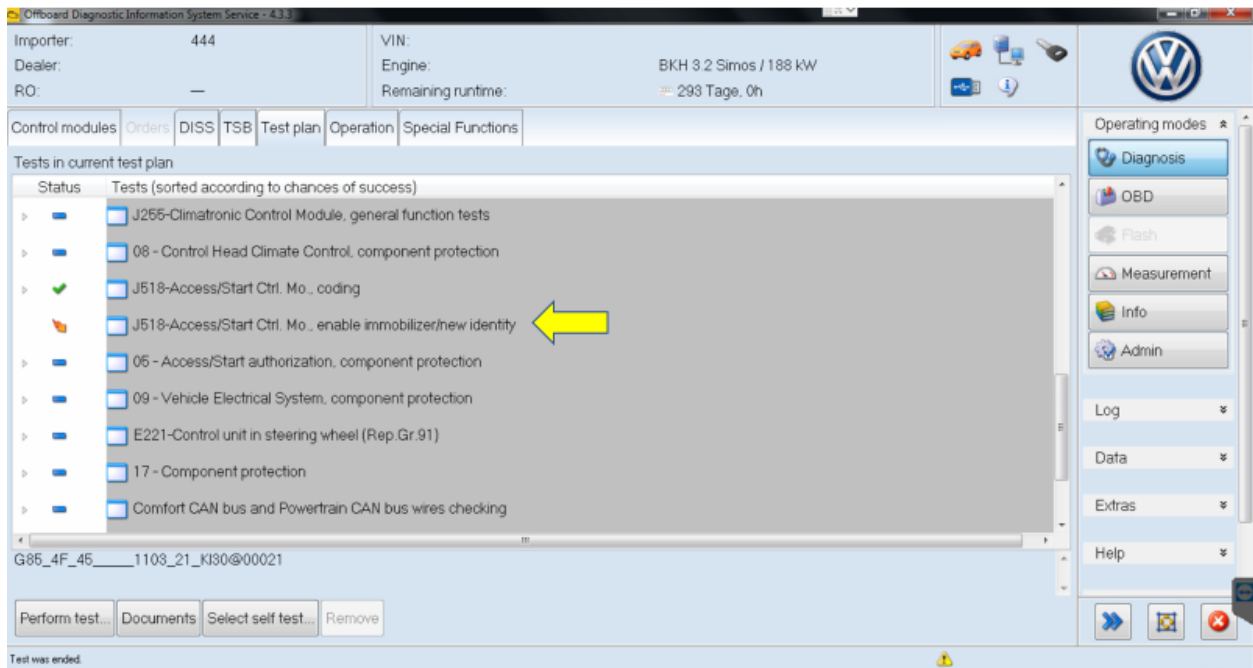
Sometimes you may have to hold the high beams on to wake vehicle

Select enable Immobilizer in test plan
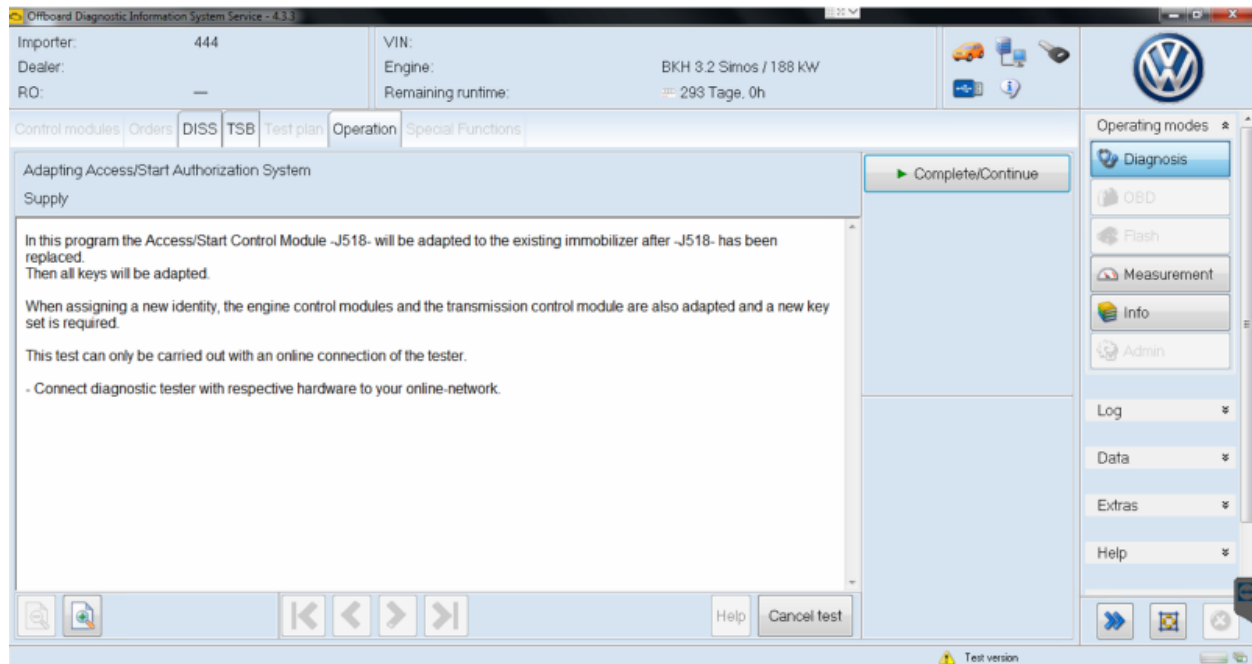
Select continue
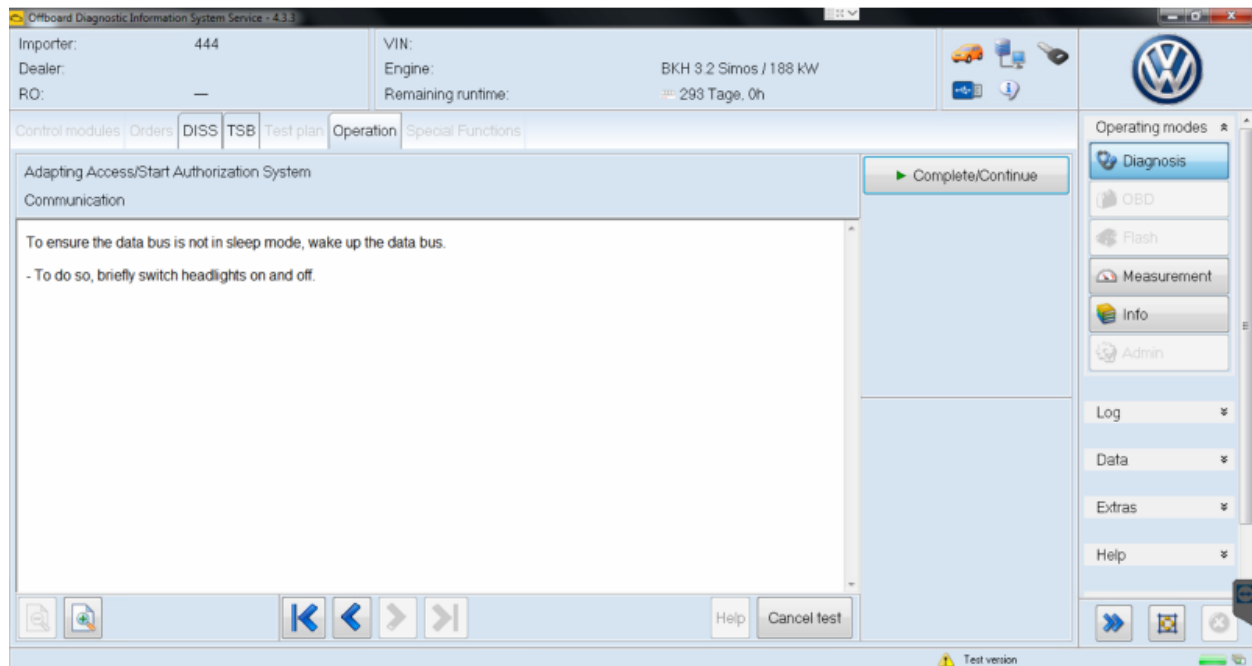
Hold High beams again
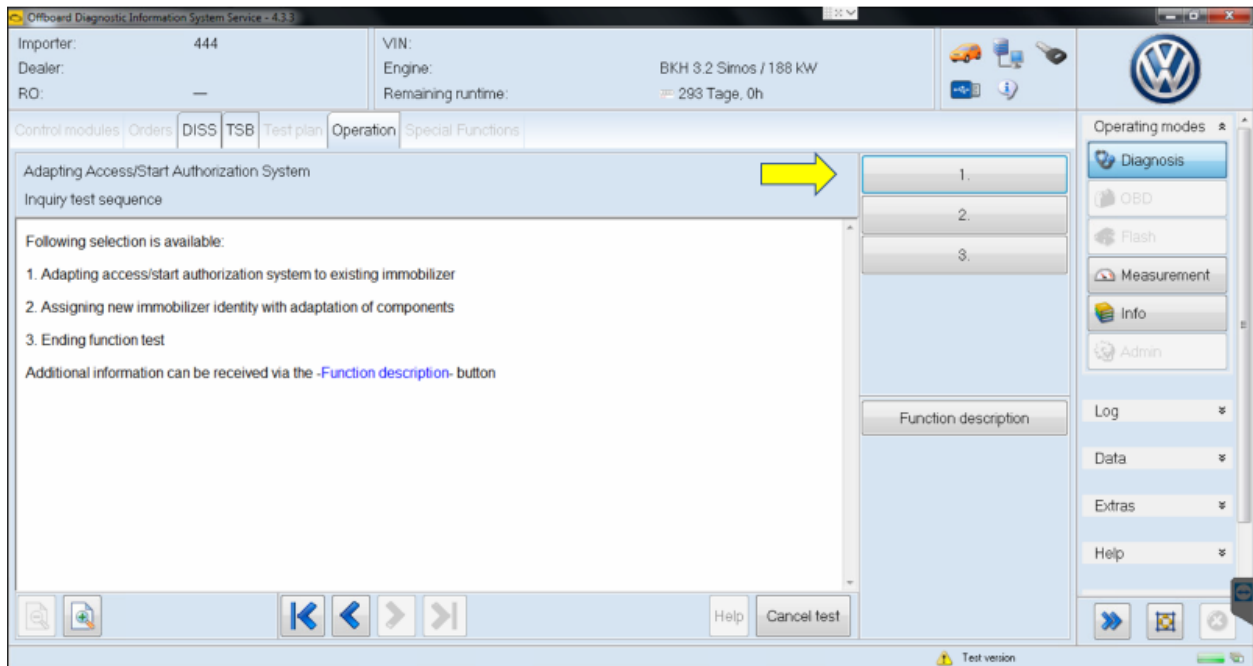
Select Adapting access start
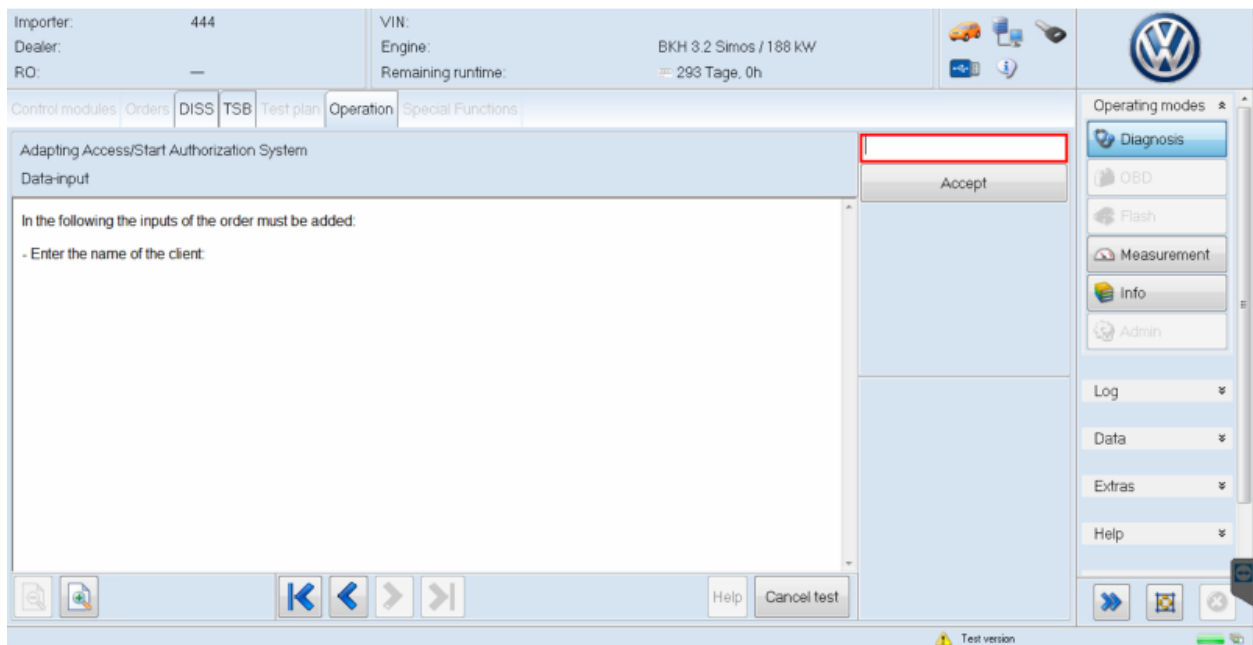
Input clients name
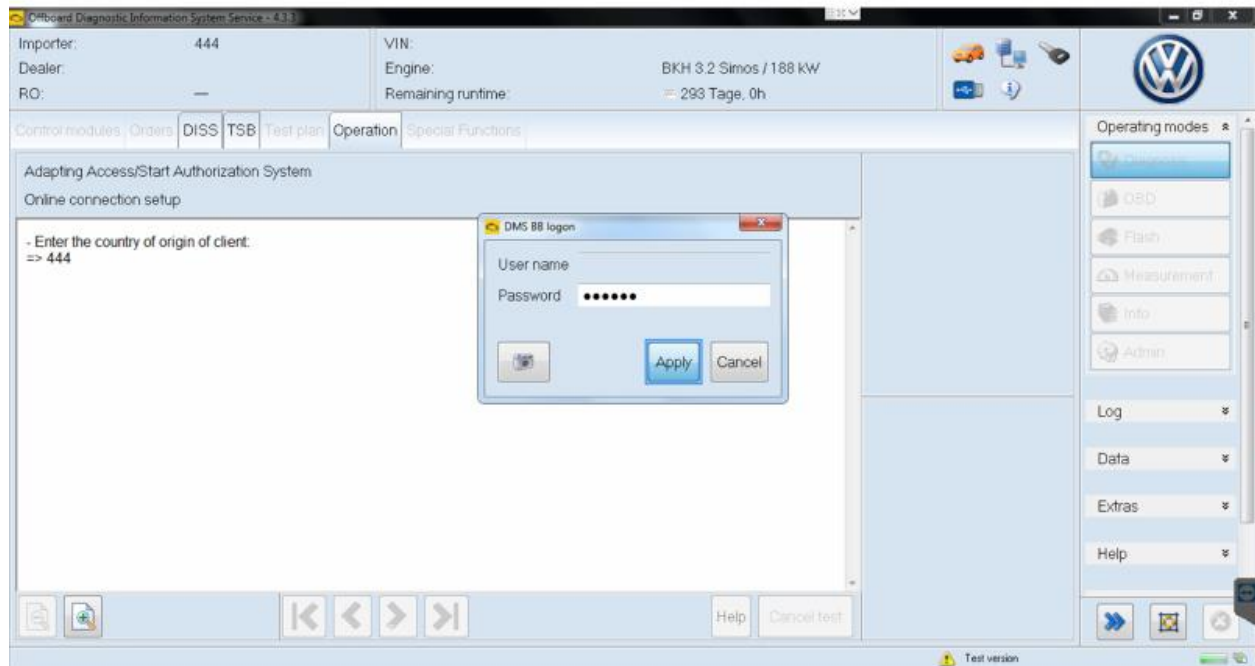
Input your password and your module will be matched

Audi A8 2003>

Condition

REVISION HISTORY		
Revision	**Date**	**Purpose**
4	-	Revised *Service, Customer Codes, Warranty*
3	8/12/2010	Revised header data (Controlling TSB display in ElsaWeb)
2	9/29/09	Revised header data (Added MYs)
1	12/18/2008	Original publication

After replacing either the control unit for access and start authorization J518 or the steering column, J518 cannot be adapted to the immobilizer.

Technical Background

Control unit for access and start authorization J518 with software version below 160 are affected.

Production Solution

New software for control unit for access and start authorization J518.

Service

Replace both components (the steering column and the control unit for access and start authorization J518) at the same time when your analysis identifies one of the two components as inoperative.

Tip: The two new control units must be installed and programmed at the same time. If they are done one after another, the programming will fail.

Warranty

Claim Type:	Use applicable claim type. If vehicle is outside any warranty, this Technical Service Bulletin is informational only.		
Service Number:	9666		
Damage Code:	0039		
Labor Operations:	Remove and install steering column	4823 1900	220 TU

	Remove and install front seat	7201 1900	70 TU
	Replace keyless access control unit	9666 5550	40 TU
Diagnostic Time:	GFF	0150 0000	Time stated on diagnostic protocol (Max 75TU)
	Road test prior to service procedure	No allowance	0 TU
	Road test after service procedure	No allowance	0 TU
	Technical diagnosis at dealer's discretion (Refer to Section 2.2.1.2 and Audi Warranty Online for DADP allowance details) Canadian Dealers: Please follow CAWP-09-02 for diagnosis process.		

Instrument Cluster Replacement

When replacing Instrument cluster, you will need the following

1. All keys that you want to be programmed to the vehicle

2. Pin number for Instrument Cluster Old and New

3. Coding for instrument Cluster

Immobilizer 1 Instrument Cluster

1. Select coding

2. Code Instrument Cluster to options on vehicle through manual coding or descriptive coding.

3. Select manual Functions

4. Select adaptions

5. In adaption channel enter 9

6. In actual value enter the mileage of the vehicle, now with the mileage entered if the value is 65297, you must enter 6529 for correct mileage to be entered in to the vehicle.

7. Press test value and look at instrument cluster mileage display, mileage should be visible

8. Press save and go to Key Coding to program all keys

(For entering mileage go to manual functions and login in with 13861, once login correctly go to adaption and adaption channel 9 enter the mileage and hit test valve look at cluster and check if mileage is correct)

Immobilizer 2

1. Extract Pin from Instrument Cluster

2. Code Instrument cluster to options on vehicle

3. Select manual functions

4. Select Login

5. Login with pin number from instrument cluster

6. Select adaptions

7. Enter 00 in adaption channel and learnt values will be erased

8. Select Key Coding and program all keys

(For entering mileage go to manual functions and login in with 13861, once login correctly go to adaption and adaption channel 9 enter the mileage and hit test valve look at cluster and check if mileage is correct)

Immobilizer 3

1. Extract pin Numbers from both Instrument clusters

2. Install new cluster

3. Select manual functions

4. Select login enter pin code for this cluster

5. Select Adaptions

6. In adaption channel enter 50

7. In actual value enter pin number from old cluster

8. Select test value

9. Vehicle Vin Number should be displayed in data 1

10. Press save once Vin is displayed

11. Select key coding and program all keys

Obtaining Radio Code

Control unit update list

Model Year	Model	Engine	Concern	Module Part #	New Part #	Updated Software Level	Technical Bulletin #	SVM or Disc
2002	Cabrio	2.0L ABA	P0102, P1128, P1296	037906018G 037906018H	037906018G 037906018H	V07 V06	01-08-16 2014140	SVM 34E6
1999-2001	Beetle	1.8T APH	P1176	06A906032B 06A906032E 06A906032A 06A906032C	06A906032S 06A906032R 06A906032Q 06A906032P	5829 5828 5827 5826	01-06-03	Replace ECM
1999-2001	Golf Jetta Beetle	2.0L AEG	WA Front Oxygen Sensor faults	06A906018ES 06A906018ET 06A906018FA 06A906018FB 06A906018EN 06A906018EP 06A906018EQ 06A906018ER 06A906018J 06A906018BJ 06A906018BG 06A906018BH 06A906018CR 06A906018CQ 06A906018P 06A906018AE	06A906018JJ 06A906018JK 06A906018JL 06A906018JM 06A906018JN 06A906018JP 06A906018JQ 06A906018JR 06A906018JA 06A906018JB 06A906018JC 06A906018JD 06A906018JE 06A906018JF 06A906018JG 06A906018JH	V01	WA00	3060
2001-2005	A4 Jetta GTI	1.8T AWW 1.8T AWP 1.8T AWD	P0420, P0442 or cold start misfires	06A906032DL 06A906032GH 06A906032HF 06A906032LQ 06A906032NL 06A906032HS 06A906032LP 06A906032NK 06A906032ML 06A906032PL 06A906032RN	06A906032DL 06A906032GH 06A906032SL 06A906032SK 06A906032SM	0007 0007 0040 0040 0040	01-09-10 2010348	3061

A4 Golf Jetta Beetle B5 Passat Continued

Model Year	Model	Engine	Concern	Module Part #	New Part #	Updated Software Level	Technical Bulletin #	SVM or Disc
2001-2004	Beetle	1.8T AWP 1.8T AWU 1.8T AWV	P0420 or P0442 Cold start misfires	06A997012 06A906032QA 06A906032LS 1C0906032	06A997012	9777	01-09-07 2014376	3005
				06A997012A 06A906032GA 06A906032KR 06A906032PR	06A997012A	9776		
				06A997012B 06A906032GB 06A906032KQ 06A906032PT	06A997012B	9775		
				06A997012C 06A906032KT 06A906032PS	06A997012C	9778		
				06A906032EM 06A906032DN	06A906032EM	9774		
				06A906032FD 06A906032DP	06A906032FD	9773		
2005	Beetle	1.8T BKF 1.8T BNU	P0420 or misfires on cold start	06A906032QT 06A906032QS 06A906032RA	06A906032QT 06A906032QS 06A906032RA	9784 9785 9786	01-08-10 2016958	3486
1999-2002	Golf Jetta	2.8L AFP	N7 ECM Software for Catalyst Monitoring	021906018A 021906018B 021906018K 021906018M 021906018Q 021906018R 021906018S 021906018T 021906018AA	021906018A 021906018B 021906018K 021906018M 021906018Q 021906018R 021906018S 021906018T 021906018AA	6781 6782 6758 6760 6759 6762 6761 6764 6763	26E1	306B
2002-2004	A4 Jetta	2.8L BDF	P0420 and/or Misfires	022906032BL 022906032BM 022906032CR 022906032CS 022906032DM	022906032BL 022906032BM 022906032CR 022906032CS 022906032DM	1479 1480 1481 1482 1483	01-08-14 2017553	3000

A4 Golf Jetta Beetle B5 Passat Continued

Model Year	Model	Engine	Concern	Module Part #	New Part #	Updated Software Level	Technical Bulletin #	SVM or Disc
2002-2004	A4 Golf	2.8L BDF	P0420 and/or Misfires	022906032BM 022906032CS 022906032DM	022906032BM 022906032CS 022906032DM	1480 1482 1483	01-08-22 2018669	3001
2000-2005	B5 Passat	1.8T ATW 1.8T AUG 1.8T AWM	Misfires at cold start or P0102, P1297, P0420 or P0441	4B0906018BH 4B0906018BG 4B0906018BQ 4B0906018CL 4B0906018CM 4B0906018DA 4B0906018DN 4B0906018DP 4B0906018DQ 4B0906018Q 4B0906018P	4B0906018BH 4B0906018BG 4B0906018BQ 4B0906018CL 4B0906018CM 4B0906018DQ 4B0906018Q 4B0906018P	0009 0009 0004 0003 0010 0060 0009 0009	01-09-09 2005554 R5	3061
2000-2001	B5 Passat	2.8L ATQ	P0420	3B0907551AN 3B0907551G 3B0907551BA	3B0907551AN 3B0907551G 3B0907551BA	0050 0050 0050	01-07-07	8D0 906 961 A SVM 34DB 8D0 906 961 B SVM 34DC 8D0 906 961 D SVM 34DD
2004	B5 Passat	2.8L ATQ	Harsh 3-2 downshift	3B0 927 156 BA 3B0 927 156 AT	3B0 927 156 BA 3B0 927 156 AT	2225	01-07-18	W42PASSATSHIFT SVM 3534
2002 - 2003	B5 Passat	4.0 BDP	P0456 (Flashes ECM and TCM)	07D906018E 3B0927156T	07D906018E 3B0927156T	5088 2222	01-07-38	W42W8UPDATECD SVM 34E0
2004-2005	Beetle ☐ Golf Jetta Passat ☐	1.9L BEW ☐ 2.0L BHW	Hard start or no start at or below 0°C (32°F) and/or runs rough after 28F6 Campaign	038906016P 038906016J 038906016M 038906016Q 038906016H 038906016L 038906016R 038997016N	038997016S 038997016R 038997016T	0283 0282 0314	28-10-05	3456

A5 Golf Jetta B6 Passat

Model Year	Model	Engine	Concern	Module Part #	New Part #	Level	Bulletin #	SVM or Disc
2006-2008	A5 GTI A5 Jetta Eos B6 Passat	2.0L BPY	P0601 or P0642, P2004, P2008, P3137, P3138	1K0907115B	1K0907115B	0040		301D
				1K0907115H	1K0907115H	0040		1FDD
				1Q0907115B		0020		
				1Q0907115D	1Q0907115E	0020	24M2 RVU 01-09-18	301D will update ECM and TCM
				1Q0907115E		0020		
				3C0907115F	3C0907115F	0030		
				3C0907115G	3C0907115G	0030		
				3C0907115P	3C0907115P	0020		
				3C0907115S	3C0907115S	0020		
		09G	Various shifting concerns	09G927750FP	09G927750HJ	1068		300B will update TCM only
				09G927750CJ	09G927750HJ	1068		
2007-2008	Jetta Passat	2.0L BPY	ECM/TCM Software Update and Valve Body Replacement for Harsh Up - Down Shift from Transmission when Cold	3C0907115P	3C0907115S	0020		
				3C0907115S		0020		
				09G927750FP		1616		
				09G927750HJ	09G927750C	1617	01 11 30	320A
				09G927750FL		1649		
				09G927750D	09G927750D	1649		
				09G927750HE	09G927750E	1615		
2006-2007	B6 Passat	3.6L	Mil and/or Oil pressure light comes on	03H906032B	03H997033M	2370		
	B6 Passat Wagon	09G Trans		03H906032C	03H997033N	2371	24L8/O2 Update 01-08-19	3016
				09G927750AJ	09G927750HK	1271		
				09G927750FR				
				09G927750HK				

A5 Golf Jetta B6 Passat Continued

Model Year	Model	Engine	Concern	Module Part #	New Part #	Updated Software	Technical	SVM or Disc
2007	A5 Jetta A5 Rabbit	2.5L BGP 2.5L BGQ		07K906032Q 07K906032R 07K906032S 07K906032T	07K906032Q 07K906032R 07K906032S 07K906032T	9650 9651 9652 9653		
2007	Beetle	2.5L BPR 2.5L BPS		07K906032AA 07K906032AB 07K906032AC 07K906032AD	07K906032AA 07K906032AB 07K906032AC 07K906032AD	9654 9655 9656 9657		W420607A5SWU SVM 34FC
2006	A5 Jetta	2.5L BGP 2.5L BGQ	P0011, P000A, or Exhaust noise on cold start	07K906032AN 07K906032M 07K906032N 07K906032P	07K906032AN 07K906032AP 07K906032AQ 07K906032AR	9683 9684 9685 9686	01-07-57	
2006	Beetle	2.5L BPR 2.5L BPS		07K906032 07K906032A 07K906032B 07K906032C	07K906032AS 07K906032AT 07K906032BA 07K906032BB	9687 9688 9689 9690		
2006	All	09G	Trans update	09G927750AS 09G927750EL	09G927750ASGJ	0833		

Model Year	Model	Engine	Concern	Module Part #	New Part #	Updated Software	Technical	SVM or Disc
2005	A5 Jetta	2.5L BGP BGQ	P3081 and Noise after Starting Cold	06A906032QC 06A906032QD 06A906032QE 06A906032QF 09G927750AS	06A906032QC 06A906032QD 06A906032QE 06A906032QF 09G927750AS	9422 9423 9424 9425 1205	01 11 04	348F
2009-2010	A5 Jetta A5 Rabbit	2.5L CBUA	DTC P0145 stored in ECM Fault Memory	07K906055AG 07K906055AF 07K906055M 07K906055N	07K906055AG 07K906055AF 07K906055M 07K906055N	9750 9751 9752 9753	01 12 21 2028037	3565

A5 Golf Jetta B6 Passat Continued

Model Year	Model	Engine	Concern	Module Part #	New Part #	Updated Software	Technical	SVM or Disc
2009-2010	A5 Jetta A5 Rabbit	2.5L CBTA CBUA	Engine Difficult to Start in Temperatures Below 32 degrees F (0 degrees C)	07K906055AG	07K906055AG	9970	01 12 22 2030305	3565
				07K906055AF	07K906055AF	9970		
				07K906055M	07K906055M	9970		
				07K906055N	07K906055N	9970		
				07K906055AJ	07K906055AJ	9970		
				07K906055AH	07K906055AH	9970		
				07K906055Q	07K906055Q	9970		
				07K906055P	07K906055P	9970		
2009	A5 Jetta A5 Rabbit	2.5L CBUA 2.5L CBTA	P150A	07K906055M	07K906055M	9970	01 13 29 2022598	3565
				07K906055N	07K906055N	9970		
				07K906055P	07K906055P	9970		
				07K906055Q	07K906055Q	9970		
2009	A5 Jetta A5 Rabbit	2.5L CBUA 2.5L CBTA	A/C cooling efficiency	07K906055M	07K906055M	9970	01 13 34 2018902	3565
				07K906055N	07K906055N	9970		
				07K906055P	07K906055P	9970		
				07K906055Q	07K906055Q	9970		

A6 Golf EOS Passat CC Tiguan

Model Year	Model	Engine	Concern	Module Part #	New Part #	Level	Bulletin #	SVM Unit
2011-2013	CC	2.0T TSI	24AX High Pressure Pump Software	06J906027F	06J997029H	1513	24AX	3C6901
				06J906027G	06J997029L	1516		
				06J906027CK	06J997029F	1511		
				06J906027CL	06J997029G	1512		
				06J906027DC	06J997029J	1514		
				06J906027FD				
				06J906027DD	06J997029K	1515		
				06J906027FE				
	Jetta			06J906027J	06J997029D	1509		
				06J906027K	06J997029E	1510		
				06J906027FH	06J997029B	1507		
				06J906027FJ	06J997029C	1508		
	Tiguan			06J906027Q	06J997029M	1517		
				06J997027J				
				06J906027R	06J997029R	1521		
				06J997027P				
				06J906027BE	06J997029M	1517		
				06J997027K				
				06J906027BG	06J997029N	1518		
				06J906027FB				
				06J997027M				
				06J906027BH	06J997029P	1519		
				06J906027FC				
				06J997027R				
	Beetle			06J906027AE	06J997028J	1495		
				06J906027AG	06J997028K	1496		
				06J906027CD	06J997028P	1500		
				06J906027FK				
				06J906027CE	06J997028N	1499		
				06J906027FL				

A6 Golf EOS Passat CC Tiguan

Model Year	Model	Engine	Concern	Module Part #	New Part #	Updated Software Level	Technical Bulletin #	SVM Unit
2011-2013	EOS	2.0T TSI	24AX High Pressure Pump Software	06J906027AR	06J997028Q	1501	24AX	3C6901
				06J906027AS	06J997028R	1502		
				06J906027CH	06J997028S	1503		
				06J906027CJ	06J997028T	1504		
				06J906027FF	06J997029	1505		
				06J906027FG	06J997029A	1506		
	Golf/GTI			1K0907115AP	1K0907115AS	0040		
				1K0907115AS				
				1K0907115AQ	1K0907115AT	0040		
				1K0907115AT				

Model Year	Model	Engine	Concern	Module Part #	New Part #	Updated Software Level	Technical Bulletin #	SVM Unit
2007-2008	Eos	3.2L BUB CBRA	DTCs P0420 and P0430 Stored in ECM Fault Memory	022906032CF	022906032CF	9971	01 11 10 2026254	3550
				022906032LF	022906032LF	9189		
				022906032KR	022906032KR	1319		
2008-2012	Tiguan, CC, Passat	2.0T CCTA CBFA	P150A Stored in ECM Fault Memory	06J906026F	06J906026F	4296	01 12 11 2018467	306A
				06J906026G	06J906026G	4297		
				06J906026H	06J906026H	4298		
				06J906026AF	06J906026AF	4060		
				06J906026AG	06J906026AG	4061		
				06J906026BR	06J906026BR	4063		
				06J906026BJ	06J906026BJ	4062		

A6 Golf EOS Passat CC Tiguan

Model Year	Model	Engine	Concern	Module Part #	New Part #	Updated Software Level	Technical Bulletin #	SVM or Disc
2011-2012	Eos, CC	2.0T CBFA	DTC P050A and High Idle Faults Stored in ECM Fault Memory	06J906027AA	06J906027AA	9654	01 11 21 2027882	3642
				06J906027CH	06J906027CH	1440		
				06J906027AR				
				06J906027AC	06J906027AC	9655		
				06J906027G	06J906027CK	0894		
2010-2013	Passat CC	2.0T CCTA CBFA	Poor Throttle Response	06J906027AB	06J906027AB	7506	24X8 01 12 27 2030838	3733
				06J906027AC	06J906027AC	9971		
				06J906027F	06J906027FE	5369		
				06J906027G	06J906027FD	5368		
				02E300058N	02E300058N	3509		
2010	B6 Passat CC Eos Tiguan	2.0L CCTA 2.0L CBFA	Coolant Pump Activation	06J906021	06J906021	6992	24R9/YR Update 24-10-04	3356
				06J906021C	06J906021C	6993		
				06J906021DA	06J906021DA	6987		
				06J906021DP	06J906021DP	6988		
				06J906021DN	06J906021DN	6989		
				06J906021DR	06J906021DR	6990		
				06J906021B	06J906021B	6991		
				06J906021DQ	06J906021DQ	6995		

A6 Golf EOS Passat CC Tiguan Continued

Model Year	Model	Engine	Concern	Module Part #	New Part #	Updated Software Level	Technical Bulletin #	SVM or Disc
2010-2013	Tiguan	2.0L	Fuel Pump Software Update	06J906026F / 06J997026K	06J906026F	8216		
				06J906026G / 06J997026L	06J906026G	8217		
				06J906026H / 06J997026M	06J906026H	8218		
				06J906027Q / 06J997027J	06J906027Q	9972		
				06J906027BE / 06J997027K	06J906027BE	9972		
				06J906027R / 06J997027P	06J906027R	9972		
				06J906027FB / 06J906027BG / 06J997027M	06J906027FB	8221	24AV	3733
				06J906027BH / 06J906027FC / 06J997027R	06J906027FC	8222		
				06J906027GM / 06J997027N	06J906027GM	8223		
				06J906027GN / 06J997027S	06J906027GN	8224		
				06J906027HD	06J906027HD	8225		
				06J906027HE	06J906027HE	8226		
				06J906026DP / 06J997026J	06J906026DP	8220		
				06J906026DN / 06J997026H	06J906026DN	8219		

A6 Jetta B7 Passat New Edition Beetle

Model Year	Model	Engine	Concern	Module Part #	New Module Part #	Updated Software Level	Technical Bulletin #	SVM Unit
2011-2013	Jetta Golf Passat Beetle	2.5L CBTA CBUA	P0106 P0507 P050A	07K906055DA / 07K906055BE	07K906055DA	5691		
				07K906055CT / 07K906055BD	07K906055CT	5692		
				07K906055CL	07K906055CL	5860		
				07K906055CK	07K906055CK	5861		
				07K906055DH / 07K906055BC	07K906055DH	5689		
				07K906055DG / 07K906055BB	07K906055DG	5690		
				07K906055CQ	07K906055CQ	5854		
				07K906055DB	07K906055DB	5855		
				07K906055E	07K906055E	5858		
				07K906055D	07K906055D	5859		
				07K906055DF / 07K906055C	07K906055DF	5687		
				07K906055DE / 07K906055B	07K906055DE	5688	01 14 23 2034012	3723
				07K906055CP / 07K906055G	07K906055CP	5872		
				07K906055CN / 07K906055F	07K906055CN	5873		
				07K906055CJ	07K906055CJ	6448		
				07K906055CH	07K906055CH	5863		
				07K906055DJ	07K906055DJ	5684		
				07K906055DK / 07K906055A	07K906055DK	5683		
				07K906055CR	07K906055CR	5852		
				07K906055CS	07K906055CS	5853		
				07K906055DD / 07K906055AN	07K906055DD	5685		
				07K906055AM	07K906055DC	5686		
				07K906055DC	07K906055AL	5856		
				07K906055AL	07K906055AK	5857		
				07K906055AK				

A6 Jetta B7 Passat New Edition Beetle Continued

Model Year	Model	Engine	Concern	Module Part #	New Module Part #	Updated Software Level	Technical Bulletin #	SVM Unit
2011-2013	Jetta Golf Passat Beetle	2.5L CBTA CBUA	Harsh Bump Stop	07K906055DA	07K906055DA	5691	01 15 02 2034046	3723
				07K906055BE				
				07K906055CT	07K906055CT	5692		
				07K906055BD				
				07K906055CL	07K906055CL	5860		
				07K906055CK	07K906055CK	5861		
				07K906055DH	07K906055DH	5689		
				07K906055BC				
				07K906055DG	07K906055DG	5690		
				07K906055BB				
				07K906055CQ	07K906055CQ	5854		
				07K906055DB	07K906055DB	5855		
				07K906055E	07K906055E	5858		
				07K906055D	07K906055D	5859		
				07K906055DF	07K906055DF	5687		
				07K906055C				
				07K906055DE	07K906055DE	5688		
				07K906055B				
				07K906055CP	07K906055CP	5872		
				07K906055G				
				07K906055CN	07K906055CN	5873		
				07K906055F				
				07K906055CJ	07K906055CJ	6448		
				07K906055CH	07K906055CH	5863		
				07K906055DK	07K906055DK	4733		
				07K906055DJ	07K906055DJ	5684		
				07K906055	07K906055DK	5683		
				07K906055A				
				07K906055CR	07K906055CR	5852		
				07K906055CS	07K906055CS	5853		
				07K906055DD	07K906055DD	5685		
				07K906055AN				
				07K906055AM				
				07K906055DC	07K906055DC	5686		
				07K906055AL	07K906055AL	5856		
				07K906055AK	07K906055AK	5857		

A6 Jetta B7 Passat New Edition Beetle Continued

Model Year	Model	Engine	Concern	Module Part #	New Module Part #	Updated Software Level	Technical Bulletin #	SVM Unit
2013	Jetta	1.4L CNLA	P0087 P119A P164B P30A1	04E906023 5C0907080C	04E906023 5C0907080C	5631 0535	01 13 15 2033979	384C
2013-2014	Jetta	1.4L CNLA	ECM, Electric Drive and Battery Manager Update for Sporadic Misfire	04E906023 04E906023G 5C0907080C 5C0907080D 5C0907080E 5C6915182B	04E906023 04E906023G 5C0907080E 5C6915182B	6808 6807 0535 0601	01 13 38 2034844	384C
2013-2014	Jetta	1.4L CNLA	fault 00332 or Fuel door will not open	04E906023 04E906023G 5C0907080C 5C0907080D 5C0907080E 5C6915182B	04E906023 04E906023G 5C0907080E 5C6915182B	6808->7928 6807 0535 0601	01 14 02 2033454	384C
2012	Jetta Golf Beetle	2.5L CBTA CBUA	Poor throttle response concern	07K906055A 07K906055CJ 07K906055BC 07K906055CL 07K906055C 07K906055E	07K906055A 07K906055CJ 07K906055BC 07K906055CL 07K906055C 07K906055E	9740 3691 9738 3692 3116 3689	01 12 15 2029373	3723
2011-2012	Jetta Golf	2.5L CBUA CBTA	Harsh Engagement from Park to Drive or Reverse	09G927750LH 09G927750LM 09G927750LF 07K906055BE 07K906055BC 07K906055A 07K906055G	09G927750LH 09G927750LM 09G927750LF 07K906055BE 07K906055BC 07K906055A 07K906055G	1916 1919 1914 8761 8759 8755 8757	01 11 15 2026944	3548

A6 Jetta B7 Passat New Edition Beetle Continued

Model Year	Model	Engine	Concern	Module Part #	New Module Part #	Updated Software Level	Technical Bulletin #	SVM Unit
2013-2014	Jetta Beetle	CPLA CPPA	O2 Sensor DTC P2414 and/or P2237 along with O2 Sensor Replacement	06K906070T 06K906070	06K906070T	8093	01 15 07 2038575	3AB9
				06K906070AA 06K906070A	06K906070AA	8098		
2013-2015	Beetle, Jetta Passat, Golf	2.0T CPPA CPLA 1.8T CPKA CPRA	P0491 and or P2440	06K906071T	06K906071T	8451		3C8D
				06K906071AA	06K906071AA	8347		
				06K906071AB	06K906071AB	8445		
				06K906071AC	06K906071AC	8446		
				06K906071N	06K906071N	8449		
				06K906071P	06K906071P	8450		
				06K906071B	06K906071B	8443		
				06K906071C	06K906071C	8444		
				06K906071J	06K906071J	8447		
				06K906071K	06K906071K	8448		
				06K906071D	06K906071D	9012	01-15-14 2040822	39D5
				06K906071				
				06K906071E	06K906071E	9013		
				06K906071A				
				06K906070AC	06K906070AC	8097		3C07
				06K906070H				
				06K906070C				
				06K906070AB	06K906070AB	8092		
				06K906070C				
				06K906070B				
				06K906070J	06K906070J	8054		
				06K906070M				
				06K906070F	06K906070F	8052		
				06K906070K				
2012	Passat	3.6L	P0420 P0430	03H906023E 03H906023BF	03H906023BF 03H906023BF	9259	01 16 11 2044303	3613

A6 Jetta B7 Passat New Edition Beetle Continued

Model Year	Model	Engine	Concern	Module Part #	New Module Part #	Updated Software Level	Technical Bulletin #	SVM Unit
2016-2017	Golf Sportwagen	1.8T	P039B, P03A5, P03AF, P03B9	8V0906264F 8V0906264K	8V0906264K	0003	01-16-26 2045925	3EB1

eGOLF

Model Year	Model	Engine	Concern	Module Part #	New Module Part #	Updated Software Level	Technical Bulletin #	SVM Unit
2015-2016	eGOLF	N/A	High-Voltage Charger (C6) B200000 P31EA P168F	5QE915681B	5QE915681B	1560	93-16-02 2041920	3D13
2015	eGOLF	N/A	High Voltage Battery Not Charging as Expected for Departure Time Set With Car-Net™	See TB			93-15-04 2040470	See TB
2015-2017	eGOLF	N/A	Climatronic w/ Heat Pump	5GE907458	5GE907458A	0202	87-16-10 2040184	3C58

A6 Jetta 1.4T

Model Year	Model	Engine	Concern	Module Part #	New Module Part #	Updated Software Level	Technical Bulletin #	SVM Unit
2016-2017	Jetta	1.4T CZTA	Misfires P0300 P0301 P0302 P0303 P0304	04E906023AK 04E906023AP 04E906023N 04E906023AL 04E906023AQ 04E906023P	04E906023AK / 04E906023AL	3670 / 3669	01-16-24 2045602	3D63
2016-2017	Jetta	1.4T CZTA	P3081	04E906023AK 04E906023AP 04E906023N 04E906023AL 04E906023AQ 04E906023P	04E906023AK / 04E906023AL	3670 / 3669	01-16-23 2045384	3D63
2016-2017	Jetta	1.4T CZTA	P0556	04E906023AK 04E906023AP 04E906023N 04E906023AL 04E906023AQ 04E906023P	04E906023AK / 04E906023AL	3670 / 3669	01-16-22 2045383	3D63
2016-2017	Jetta	1.4T CZTA	P0456	04E906023AK 04E906023AP 04E906023N 04E906023AL 04E906023AQ 04E906023P	04E906023AK / 04E906023AL	3670 / 3669	01-16-21 2045381	3D63

Touareg continued

Model Year	Model	Engine	Concern	Module Part #	New Module Part #	Updated Software Level	Technical Bulletin #	SVM Unit
2006-2007	Touareg	5.0L (TDI) BWF	Low load vibrations	070906016AE 070906016BG 070906016BJ 070906016CQ	070906016CQ	9805	01-09-08 2019021	3004
2007	Touareg	4.2L BAR	P0601	7L0910560F	7L0910560F	0020	01-10-14 2024504	3107
2011-2012	Touareg	3.6L CGRA	Improve Cold Start - Rough Idle Concern	03H906023B 03H906023AG	03H906023B 03H906023AG	8688 2580	01 13 31 2027780	35F4 36CE
2013-2014	Touareg	3.6L CGRA	P2181	03H906023BC 03H906023CD	03H906023CD 03H906023CD	7534 7534	01 14 10 2036503	36CE

Touareg

Model Year	Model	Engine	Concern	Module Part #	New Module Part #	Updated Software Level	Technical Bulletin #	SVM Unit
2004	Touareg	3.2L BAA	P0420 or P0430 Cold start misfires P0300-P0306	022906032BF	022906032BF	9779	01-08-11 2015134	2097
2004	Touareg	4.2L AXQ	V8 poor throttle response	4D0907560DA	4D0907560DA	0050	01-05-04	W42TOURSWU0050 SVM 3490
2004-2006	Touareg	ALL	Drivetain Binding/Tires Scrubbing During Low Speed Maneuvering ESP Light ON or Flashing	0AD927755L 0AD927755R 0AD927755AT 0AD927755AR 0AD927755AL 0AD927755AJ 0AD927755AB	0AD927755BE	0122	01 11 29 2011930	349C
2005-2006	Touareg	3.2L BMX	P0420 or P0430 Cold start misfires P0300-	022906032FT 022906032GT	022906032GT 022906032GT	9911	01-08-13 2017410	301E
2006	Touareg	4.2L AXQ	A/C not blowing cold	4D0907560DF	4D0907560DF	0030	01-07-53 2015019	20B0
2006-2007	Touareg	3.6L 09D Trans	Mil and/or Oil pressure light comes on	03H906032AG 03H906032D 09D927750FF 09D927750CP	03H997033R 03H997033P 09D927750FF 09D927750CP	2374 2372 1274 1273	24L8/O2 Update 01-08-19	3017
2007-2009	Touareg	3.6L	Mil on P0420 P0430	03H906032AG 03H9060325 03H906032CB 03H906032ED	03H906032AG 03H9060325S 03H906032ED	6651 7873 7874	01-14-20 2037740	35B1

Routan

Model Year	Model	Engine	Concern	Module Part #	New Module Part #	Updated Software Level	Technical Bulletin #	SVM Unit
2012	Routan	All	RHR Navigation Map Enhancements			HRT3 N 1108 4.3.0	91 13 21	CD Part number: RHRNAVSW431
2011-2012	Routan	All	RHR Radio Software	VIN Range 2V4__DG_BR640622 To 2C4__DG_CR425164		2.126	91K3 RVU	CD Part number: ROSWRHRTB2031926
2014	Routan	3.6L CJUA	P0606	68206611AD	68206611AE		24S3 RVU '01 13 32	WiTech
2010	Routan	4.0L CGVA	P050D (UNSOLD VEHICLES)	VIN Range DX_AR000001 To DX_AR209424			24I3/YK RVU 24-10-01	WiTech
2010	Routan	4.0L CGVA	P050D	VIN Range DX_AR000001 To DX_AR209424			01-10-03	WiTech
2010	Routan	3.8L	P013A (UNSOLD VEHICLES)	All			24S3/YQ	WiTech
2009-2010	Routan	3.8L CGUA	P013A	VIN Range 41_9R000001 To D1_AR195846			01-10-02	WiTech
2009	Routan	3.8L CGUA	Reprogram Oil change indicator system	All			17D4/Y7 RVU 24-09-01	WiTech
2009	Routan	4.0L CGVA	Reprogram PCM for Thrust bearing	All			37E9/YB RVU 01-09-17	WiTech
2009	Routan	All	P2181	All			01-10-12	WiTech
2009-2014	Routan	All	Discharged Battery with Power Folding 3rd Row Seat	All			27-14-01	WiTech

Transmission Control Module Updates

Model Year	Model	Engine	Concern	Module Part #	New Module Part #	Updated Software Level	Technical Bulletin #	SVM Unit
2012	Jetta, Passat, Beetle, CC, Tiguan, Golf	2.5L CBUA CBTA 2.0T CCTA 3.6L CNNA	Fault Code 00266 Stored in TCM will only flash certain Software Levels	09G927750HG	09G927750HG	2038->2172	01 12 34 2029268	36AD
				09G927750JE	09G927750JE	2034->2169		
				09G927750MH	09G927750MH	2061->2195		
				09G927750LM	09G927750LM	2044->2178		
				09G927750LR	09G927750LR	2062->2196		
				09G927750LE	09G927750LE	2040->2174		
				09G927750LF	09G927750LF	2041->2175		
				09G927750LG	09G927750LG	2042->2176		
				09G927750LH	09G927750LH	2043->2177		
2012	Tiguan	2.0L CCTA	Poor throttle response and or Driving Noise at Low Speeds in High Gear	09G927750LR	09G927750NK	2253 2248	01 12 13 2029206	3703
2009	Tiguan	2.0L CCTA	Harsh 3-2 down shift when cold	09G927750GG	09G927750GG	1702	01 11 16 2022260	32E1
				09G927750KM	09G927750KM	1703		
				09G927750KN	09G927750KN	1704		
2008	A5 Jetta A5 GTI	2.0L BPY	Harsh 1-2 or 2-3 up shift	1K0907115S	1K0907115S	0040	01-09-14 2020922	317D
				02E300044J	02E300044J	1416		
2007	A5 Jetta/GTI	2.0L BPY	Launch Control Program	02E325025AD	02E325025AD	1158	37-07-09 2013260	W42DQ250RD2 SVM 3601

Transmission Control Module Continued

Model Year	Model	Engine	Concern	Module Part #	New Module Part #	Level	Bulletin #	SVM Unit
2007-2008	B6 Passat	2.0L BPY	ECM, TCM Software Update and Valve Body Replacement for Harsh Up - Down Shift from Transmission when Cold	3C0907115P	3C0907115S	0020		
				3C0907115S		0020		
				09G927750FP	09G927750C	1616	01-13-37 2012810	320A
				09G927750HJ		1617		
	A5 Jetta	2.5L		09G927750FL	09G927750D	1649		
				09G9917750D		1649		
				09G927750HE	09G927750	1615		
2006-2007	B6 Passat	2.0L BPY	Harsh Downshift after Extended Highway Driving	09G927750FP	09G927750FP	1199	01 11 31 2016941	300B
				09G927750CJ	09G927750CJ	1135		
2006	B6 Passat	2.0L BPY	Harsh 5-4 downshift	09G927750CJ	09G927750CJ	1135	01-09-15 2012810	300B
1999-2002	A4 Golf/Jetta	2.8L AFP	Automatic transmission, slips when shifting from 2nd to 3rd gear	01M927733MP	01M927733MP	5060	37-07-05	Replace TCM
				01M927733DJ				
				01M927733JS				
				01M927733KR				
				01M927733MB				
				01M927733MH				

Radio / Navigation

Model Year	Model	Engine	Concern	Module Part #	New Module Part #	Updated Software Level	Technical Bulletin #	SVM Unit
2016	A6 Golf GTI eGolf Sportwagon Golf R	All	MIB2 Discover Media Composition Media Technisat Radios	See TB		0245	91-15-15 2042718	SD Card SW0245TSUD SD Card
2016	All	All	MIB2 Discover Media Composition Media Delphi Radios	See TB		0245	91-15-14 2042343	SD0245UD
2015	eGOLF	All	MIB1 MDI Connected Device Will Not Play or No Audio coding change	See TB			91-16-02 2043066	See TB
2015	A6 Golf/GTI	All	Radio switches to 87.7 EXCEPT eGOLF	See TB		P4430	91-15-07 2039352	SW877UDWITHNAV SW877UDNONAV
2015	eGOLF		Display Shows Fuel Pump Icon after J794 Module Replacement	See TB		E5140	91-16-05 2040330	SWE4250
2014 2015	Passat CC Beetle	All	RNS 510 Welcome Screen shifted or distorted	See TB		5382	91-15-03 2037873	Update CD K00 5001 68 99

Radio / Navigation

Model Year	Model	Engine	Concern	Module Part #	New Module Part #	Updated Software Level	Technical Bulletin #	SVM Unit
2014 2015	CC Eos Jetta Passat Tiguan	All	Premium 8 Radio Update	See TB		0010	91 15 08 2041770	3CC1
2014	CC Eos Golf/GTI Jetta Passat Tiguan	All	UMI Software update Various Bluetooth Concerns	See TB	USB and SVM flash	0592	91-15-02 2036310	See TB
2013-2014	Jetta	1.4L	Stationary Vehicle Displayed While in Motion (Premium 8 Radio) Hybrid Only	see TB		0011	91-14-12 2038293	37DC
2012-2013	CC Beetle Eos Golf/GTI Jetta Passat Tiguan	All	Bluetooth audio runs in mono, Media player automatically starts when phone is connected, Bluetooth audio level is too high (Premium 8 Radio)	1K0035180AE 1K0035180T 1K0035188D 1K0035188E 1K0035180AF 1K0035180AG 1K0035188F 1K0035188G 5C6035180 5C6035180A	1K0035180AE 1K0035180T 1K0035188D 1K0035188E 1K0035180AF 1K0035180AG 1K0035188F 1K0035188G 5C6035180 5C6035180A	0008 0009	91-14-09 2031136	383F (2012 model year) 37DC (2013 model year)

Radio / Navigation Continued

Year	Model		Concern				NAV DVD Part number
2013-2014	CC, Beetle, Eos, Golf/GTI, Jetta, Passat, Tiguan	All	Radio, RNS 315 Radio Reboots, Radio Locks Out or Radio Switches Off at Random	See TB	0329	91-14-03 2036481	RNS315SW0417
					0417		RNS315SW0329
2010	CC, Eos, Golf/GTI, Jetta, Passat, Tiguan	All	Radio, RCD510 (Premium 8)	See TB	0043	91-13-19 2023500	SD card RCD510SW0043
2009	A5 Jetta, GTI, Eos, Tiguan, Passat & CC, Touareg	All	RNS 510 unable to load map data (U.S. only)	3C0 035 684 + index / 7L6 035 684 + index	Map Data Only	91-10-22 2019935	RNS510SD2019935
2009	A5 Jetta, A5 GTI, Eos, Tiguan, B6 Passat	All	RNS 510 with various concerns	3C0 035 684 + index / 7L6 035 684 + index	380/382	91-10-21 2019598	RNS510FLSH0380

Radio / Navigation Continued

Model Year	Model	Engine	Concern	Module Part #	New Module Part #	Updated Software Level	Technical Bulletin #	SVM Unit
2005-2008	A5 Jetta B6 Passat Eos	All	Radio, navigation system, operating errors	1K0 035 197 + index		50	91-09-04 2016982	N/AVFLTAYSW50
2005-2008	A5 Jetta, B6 Passat GTI, Rabbit EOS	All	Premium 7 (6 disc changer, Panasonic Only) Corrects issues related to "amp clipping", reception issues, satellite radio inoperative, "bass flare", and radio does not power down when door open with key off	1K0 035 180 + index		35	91-09-06 2019894	PANFLSW0035 SVM 34A6
2008	Touareg 2	All	DVD navigation update, complaints of loss of presets in satellite radio mode	7L6 035 177 + index		30	91-08-02 2017408	N/AVFLASW30
2005-2007	Touareg	All	DVD navigation update	7L6 035 191 + (D/Q/S)		49	91-09-19 2015927	N/AVFLTOR49
2004-2005	Touareg	All	Complaints of battery drain and/or no start condition	7L6 035 191 + (A/B/D/E)		0635	91-09-01 2010556	W42TOURN/AV

Miscellaneous Control Units

Model Year	Model	Engine	Complaint	Module Part #		Updated Software Level	Technical Bulletin #	CD or SVM
2011	GTI Jetta Tiguan	All	Electronic Steering Column Lock w/ Kessy	5K0905861	5K0905861	120	28 11 01 96B7	3478
2010	Routan	90	Instrument cluster ambient temperature reading slow to react or inaccurate	N/A		N/A	90-10-06 2023618	Scan Tool ECU Flash
2010	Routan	97	TIPM Update	N/A		N/A	90F3/YJ RVU 97-10-01	Star MOBILE
2010	A6 Golf A6 GTI	97	Body Control Module Update	N/A		0576	97T2/YW RVU 97-10-08	33BC
2009-2010	Passat, CC	90	Update programming, gateway control module, incorrect message in multifunction display (MFD)	3C0907530J 3C0907530K 3C0907530P 3C0907530L 3C0907530Q 3C0907530M 3C0907530N	3C0907530J 3C0907530P 3C0907530P 3C0907530Q 3C0907530Q 3C0907530N 3C0907530N	0172	90-10-07 2023212	332B
2009	B6 Passat, Passat Wagon, CC	90	Software update for instrument cluster compass display	N/A	See TB	N/A	90-10-02 2022950	3176
2009	B6 Passat, CC	90	DTC 01317 Stored in instrument cluster control module -J285- or other control modules	3C0907530F SW 0142	3C0907530J	0048	90-09-02 2020827	31D2

Miscellaneous Control Units Continued

Model Year	Model	Engine	Complaint	Module Part #		Updated Software Level	Technical Bulletin #	CD or SVM
2008-2010	A5 Jetta A5 Rabbit GTI, R32 Eos Tiguan	90	Gateway control unit Update programming, Parking brake cannot be switched off, incorrect symbols in dash display	1K0907530L 1K0907530Q 1K0907530S 1K0907530AA 1K0907530AD 1K0907530N 1K0907530R 1K0907530T 1K0907530AB 1K0907530AE	1K0907530AD 1K0907530AE	0112	91 11 20 2025606	328C
2005-2009	A5 Jetta A5 Rabbit GTI, R32 Eos Tiguan B6 Passat & CC	48	Steering system adaption Note: Applies to all steering rack replacements	N/A	See TB	N/A	48-09-01	W42RACKMAP50 SVM 337D
2005-2009	A5 Jetta A5 Rabbit GTI, R32 Eos Tiguan	91	Cruise control inoperative, DTC 18104 and/or DTC 18106 present Note: Unflashed vehicles will have a zero for the last digit of the software level	N/A		XXX1	27-09-03	Scan tool test plan "Adaptation cruise control system debounce counter"
2005-2009	A5 Jetta A5 Rabbit GTI, R32 Eos Tiguan	91	Steering wheel menu change buttons inoperative	N/A	See TB	N/A	90-09-01	Scan tool test plan "Adaptation menu key multifunction steering wheel"
2004	Phaeton	90	Analog clock runs slow (Infotainment)	N/A		0223	90-07-01	Call Helpline
2004	Phaeton	90	Instrument cluster display distortion	N/A		0321, 0421, 0521	90-06-02	Call Helpline

Miscellaneous Control Units Continued

Model Year	Model	Engine	Complaint	Module Part #		Updated Software Level	Technical Bulletin #	CD or SVM
2004-2008	Beetle & Beetle Convertible A5 Jetta GTI, R32 B6 Passat	69	Airbag Pods system faults DTC 02511 014	N/A	See TB	N/A	01-08-07 2010347	W42DTC02511014 - 2
2006-2007	B6 Passat	45	EPB update to prevent false DTC's: 00446 002, 00532 002, 02428 002, 0229 002, 02433 011, 02433 012	3C0907801B 3C0907801E	3C0907801BZ	0001	01-07-47	2084
2007	Eos	57	OS update TPMS and comfort module	N/A	See TB	0218	01-06-20	W42INSTKUPDATECD SVM 34A6
2008 - 2009	Touareg	90	Menu options missing from MFI	Multiple	See TB	9533	90-08-07	Multiple
2007-2009	Eos	91	Compass reads incorrectly (Non navigation vehicle)	1Q0919965	See TB	0002	91-09-25	COMPASFLASHSW002 SVM 34F8
2004	Touareg	90	Touareg clock loses time Read TB; Two Part Flash	7L6 920 980 M, N, P 7L6 920 970 L, M 7L6 920 870 M, N, P 7L6 920 880 L, M	See TB	2922 1822 2922 1822	90-08-02	W42TOURCLUSTER SVM 34DF
2000	A4 Golf A4 Jetta	90	VS campaign instrument cluster update	N/A		N/A	VS	VW18192804

Model Year	Model	Engine	Concern	Module Part #	New Part #	Updated Software Level	Technical Bulletin #	SVM Unit
2011-2012	Touareg	3.0L CATA	P208C P208E P20EE P150A	7P0907401E 7P0907401J	7P0907401J	0003	26 12 01 23K9	363C
2010	Tiguan Passat CC EOS	CCTA CBFA	Coolant Pump Activation	06J906021 06J906021C 06J906026DA 06J906026DP 06J906026DN 06J906026DR 06J906021B 06J906026DQ	06J906021 06J906021C 06J906026DA 06J906026DP 06J906026DN 06J906026DR 06J906021B 06J906026DQ	6992 6993 6987 6988 6989 6990 6991 6995	24 10 04 24R9	3356
2012	Jetta	2.0T CCTA CBFA	to correctly store ECM scan tool mode data	06J906027J 06J906027K	06J906027J 06J906027K	2907 2908	24W1	366D
	Beetle	2.0T CCTA CBFA		06J906027AG 06J906027CE 06J906027AE 06J906027CD	06J906027AG 06J906027CE 06J906027AE 06J906027CD	2906 2904 2909 2905		
	Passat	3.6L CDVB		03H906023E	03H906023E	3013		3613
2009-2011	Jetta Golf SportWagen	CBTA CBUA	Rough running behavior and cold start issues at certain conditions (under high electric power	07K906055BE 07K906055BD 07K906055BC 07K906055BB 07K906055AG 07K906055AF 07K906055AJ 07K906055AH 07K906055M 07K906055N 07K906055P 07K906055Q 07K906055G 07K906055F 07K906055A 07K906055	07K906055BE 07K906055BD 07K906055BC 07K906055BB 07K906055AG 07K906055AF 07K906055AJ 07K906055AH 07K906055M 07K906055N 07K906055P 07K906055Q 07K906055G 07K906055F 07K906055A 07K906055	9213 9212 9210 9211 9970 9970 9970 9970 9970 9970 9970 9970 9217 9216 9214 9215	24 10 04 24W4	3565
2010	Touareg	3.6L BHK	Catalyst Monitoring	03H906032GQ	03H906032GQ	9893	24 12 05 24X5	35B1

Model Year	Model	Engine	Concern	Module Part #	New Part #	Updated Software Level	Technical Bulletin #	SVM Unit
2011	Jetta	2.0L CBPA	Idle w A/C on and poor throttle response	06G906055T 06G906055R 06G906055B 06G906055AA 06G906055S 06G906055C 09G927750LE 09G927750LE	06G906055T 06G906055AA 06G906055S 06G906055C 09G927750LE 09G927750LE	1205 1205 1205 1212 2330 2329	24X7	3801
2011	Jetta	2.0L CBPA	Poor throttle response concern	06G906055T 06G906055AA 09G927750LE 09G927750LE 09G927750LE 09G927750LE	06G906055T 06G906055AA 09G927750LE 09G927750LE 09G927750LE 09G927750LE	1205 1205 1791->2330 1975->2330 2040->2329 2174->2329	24Y4	3801
2013	Jetta	1.4L CNLA	optimizes Hybrid system operation	04E906023 5C0907080C	04E906023 5C0907080C	5631 0535	01 13 15 24Z5	384C
2010-2012	Golf/GTI Jetta Eos CC Beetle	2.0T CJAA 2.0T CCTA CBFA	Customer states while braking and down shifting in Tiptronic mode the transmission does not respond accordingly. Customer states while accelerating from a rolling stop, the transmission does not respond accordingly.	02E300054M 02E300054M 02E300057B 02E300054J 02E300054L 02E300057C 02E300057B 02E300054C 02E300058E	02E300057B 02E300057B 02E300057B 02E300057A 02E300057C 02E300057C 02E300057B 02E300054C 02E300058E	2604->2730 2609->2730 2714->2730 2720->2730 2605->2731 2715->2731 2721->2731 2601->2705 2602->2724 2605->2724 2717->2724 2720->2724 2714->2730 2720->2730 2802->2806 2803->2806 2801->2805 2804->2805	37G2	364B

Vehicle Updates Continued

Model Year	Model	Engine	Concern	Module Part #	New Part #	Updated Software Level	Technical Bulletin #	SVM Unit
2013	CC / Beetle	2.0T CCTA CBFA	DSG Software update	02E300058N	02E300058N	3522 / 3523	37H3	3733
2012	Passat	All	Kessy Update	5K0959434A	5K0959434B	0802->0902	57E1	3639
2013	Beetle Convertible	All	Convertible top update to improve top function see Bulletin for other model updates	5C3871601	5C3871601	0344	61B7	382F
2011	Jetta	All	The A/C system might not cool the vehicle fast enough or Key to lose adaption	5C0820047H 5C0820047J 5C0820047K 5C0 820 047L	5C0820047M 5C0820047N 5C0820047P 5C0 820 047Q	103 103 103 103	87C6	345F
2012	Tiguan Golf/GTI Sportwagen CC	All	Heater is not blowing hot enough	AC Module	See TB	0303->0404 0304->0404	87D3	36C8
2013	Tiguan Golf/GTI Beetle Passat Jetta CC	All	Radio Update Premium 8 from sw level 0007 to 0008 only, see bulletin	1K0035180AF	1K0035180AF	0007->0008	91J7	SD Card
2011	GTI Jetta Tiguan	All	Electronic Steering Column Lock w/ Kessy	5K0905861	5K0905861	120	28 11 01 96B7	3478
2015	Passat Jetta Beetle Golf	1.8T	37J2 Transmission update	09G927749B 09G927749A 09G927749 09G927749D	09G927749B 09G927749A 09G927749 09G927749D	2855 2856 2857 2866	37J2	3B8B
2010-2013	Passat CC	2.0T CCTA CBFA	Poor Throttle Response	06J906027AB 06J906027AC 06J906027F 06J906027G 02E300058N	06J906027AB 06J906027AC 06J906027FE 06J906027FD 02E300058N	7506 9971 5369 5368 3509	**24X8** 01 12 27	3733

Error Codes from Odis

ODS0001E

The sensor is not connected to the logical connection.

Please contact Support.

ODS0002E

Executing in current condition is not permitted.

Please contact Support.

ODS0003E Object is in poor condition. Please contact Support.

ODS0004E

The configuration does not match the connected device.

Please contact Support.

ODS0005E

An error occurred in the oscilloscope display module.

Please contact Support.

ODS0006E

A trigger channel was not established for the triggered measurement.

Please contact Support.

ODS0007E

The GDI versions of GDI components do not match.

Please contact Support.

ODS0008E A GDI error has occurred. Please contact Support.

ODS0009E

An error occurred in the GDI coordinator: ... (Error code: ...

Please contact Support.

ODS0010E

An error occurred in the GDI driver: ... (Error code: ...

Please contact Support.

ODS0011E A conflict with the DCD has occurred. Please contact Support.

ODS0012E

A failure occurred when installing the device driver.

Please contact Support.

ODS0013E

The measuring device is not established in the GDI driver.

Please contact Support.

ODS0014E

An error occurred when parsing the specified curve ....

Please contact Support.

ODS0501E

No knowledge base is available for the selected model.

The "Flashing" mode cannot be per

Please check if there are updates to the software or data.

If the problem persists, please contact support

formed for this model. immediately.

ODS0502E

The existing software installation is incomplete.

The "Flashing" mode cannot be performed with the existing software.

Please check if there are updates to the software or data.

If the problem persists, please contact support immediately.

ODS0503E

The current brand ... is not supported by the "Flashing" operating mode at this time.

The "Flashing" mode cannot be performed for this brand.

Please check if there are updates to the software or data.

If the problem persists, please contact support immediately.

ODS0504E

There are inconsistencies within the diagnostic data for the current brand ....

The "Flashing" mode cannot be performed for this brand.

Please check if there are updates to the software or data.

If the problem persists, please contact support immediately.

ODS0505E

There are ambiguities within the diagnostic data for the current brand ....

The "Flashing" mode cannot be performed for this brand.

Please check if there are updates to the software or data.

If the problem persists, please contact support immediately.

ODS1001E Not available - timeout after ... seconds. Please contact Support.

ODS1002E the session for account ... has expired.

Please restart the program.

If the problem persists, please contact support immediately.

ODS1003E

The connection to VehicleBaseServiceV15 could not be established.

Incorrect connection and server data have been entered in the administration area.

Please contact Support.

ODS1004E the connection to ... ended.

Please try again. If it is still not possible to login, contact Support.

ODS1005E

A transmission error ... occurred when connecting to ....

The connection was interrupted.

Please try again or contact Support.

ODS1006E

A connection could not be established with the URI/URL.

The address is not responding currently.

Please try again later or contact Support.

ODS1007E

Negative response from the server. The error ID is ...

Please contact Support.

ODS1008E Negative response from the server: Please contact Support.

ODS1501E

The version of the selected session ... is not compatible with the current program version ....
The session cannot be loaded.

Please contact Support.

ODS1502E

The type of the selected session ... is not compatible with the current product .... The session
cannot be loaded.

Please contact Support.

ODS1503E

The type of selected session cannot be identified. The session cannot be loaded.

Please contact Support.

ODS2001E the password for account ... is invalid. Please contact Support.

ODS2002E the password for account ... has expired. Please contact Support.

ODS2003E No authentication available. Please contact Support.

ODS2004E the account ... is unknown. Please contact Support.

ODS2005E Authentication is required to access .... Please contact Support.

ODS2006E

The hardware with ID ... is marked as locked. Please contact support.

A login was attempted with a tester whose hardware ID was locked on the server side.

Please contact Support.

ODS2007E

Your flat rate has expired. Please obtain a new flat rate from erWin.

Please obtain a new flat rate if you are an independent market operator.

Please contact Support if you are an authorized dealer.

ODS2008E

The maximum number of simultaneous user's sessions for your flat rate has been reached. A login is only available once a current user session ends.

Please log in again later.

ODS2500E

The group system has reported an error: ...

Please contact Support.

ODS2501F

No MCD system was found. Please check the MCD system installation.

Please contact Support.

ODS2502E No data available. Probable causes are:

- Missing or faulty vehicle project

- No suitable MCD Server runtime data

- The control module is not designed for this function

ODS2503E The VIN could not be read or detected.

Make sure there is a connection to the vehicle and the ignition is switched on.

ODS2504F No MCD/DTS system was found. Please contact Support.

ODS2506E Printing could not be completed.

The printer could not be accessed

The user canceled the print job.

Please check the printer settings or contact the system administrator.

ODS2507E

The print layout for the graphic could not be generated.

Please contact Support.

ODS2508F

Important MCD server libraries were not found.

Probable causes are:

1. The MCD server is not installed. Please install the current MCD server to correct this.

2. The system path does not contain the MCD sever working directory.

3. The MCD server working director cannot be accessed.

Please contact Support.

ODS2509F There are differences between the installed and expected version of necessary

Please install the current MCD server to correct this.

 Softing libraries. Please contact Support.

ODS2510F

The ECF framework for access to the MCD system could not be found.

Please install the current ECF version to correct this.

Please contact Support.

ODS2511F The MCD system could not be found.

There are several probable causes.

1. Another application that uses the MCD server is active. Close those applications and restart the application.

2. Another application that uses the MCD server cannot be closed. Restart the computer and try again.

Please contact Support.

ODS2512F

The system is powering down. All activities in progress will be ended.

Please check if Offboard Diagnostic Information System Service functions correctly after starting. If it does not function correctly, contact Support.

ODS2513E

The MCD system diagnostic interface is not configured clearly.

Check the configuration of your diagnostic hardware in the PDU API and modify if necessary.

ODS2514E

Error when accessing the Logical Link Monitor for the MCD system.

Please contact Support.

ODS2515E Error when opening the MCD project. Please contact Support.

ODS2520E

The help system is not complete.

Help information cannot be displayed.

Please contact Support.

ODS2521E

The help file ... in ... cannot be opened.

Help information cannot be displayed (...).

Make sure the help file is in specified location and there is read access to it or contact support.

ODS3001E the file ... was not found.

Make sure the correct path was entered or contact Support.

ODS3002E

Account ... does not have read authorization for the file ...

You do not have the necessary authorization. Please contact Support.

ODS3003E

Account ... does not have write authorization for the file ...

You do not have the necessary authorization. Please contact Support.

ODS3004E No space to write the file ...

The data storage location is full. Please contact your system administrator or Support.

ODS3005E the file folder ... was not found.

Make sure the correct path was entered or contact Support.

ODS3006E

Incorrect file name format for file ... The format ... was expected.

Please contact Support.

ODS3007E

The file … in the folder … cannot be written.

Please contact Support.

ODS3008E

The file … in the folder … cannot be opened or read.

Please contact Support.

ODS3009E the file … cannot be copied to …. Please contact Support.

ODS3010E

Filter file for HexService is not available or cannot be read.

The HexService function cannot be performed.

Please contact Support.

ODS3011E

An error occurred when displaying the results of the equipment level check.

Please contact Support.

ODS3012E

An error occurred when generating the HTML results log.

Please contact Support.

ODS3013E

An error occurred during the Html transformation for the current vehicle project.

Please contact Support.

ODS3014E

An error occurred when unpacking the file.

Please contact Support.

ODS3015E

The selected data set does not contain a control file.

Please contact Support.

ODS3501E

Connection data to group systems incorrect or not available. Please contact support.

Please contact Support.

ODS4001E

The data structure ... could not be created or converted. Please contact support.

Please contact Support.

ODS4002E the software library ... was not found. Please contact Support.

ODS4003E

The software library ... could not be opened.

Please contact Support.

ID Displayed Error Note

ODS4004E

The parameters received for the request from ... are incorrect.

Please contact Support.

ODS4005F Incorrect Java installation. Please contact Support.

ODS4006E the service module ... is not available. Please contact Support.

ODS4007E the service ... could not be configured. Please contact Support.

ODS4008E

The session for vehicle ... could not be reestablished.

Please check the connection to the vehicle or contact Support.

ODS4009E

An internal system error has occurred. The system is unstable. Please send a feedback and contact support. End the system and restart.

Please restart the system. If the error is not corrected, contact Support.

ODS4010E

The file structure ... contains content errors.

Please contact Support.

ODS4011E the system does not support the code .... Please contact Support.

ODS4012E No session data available for saving. Please contact Support.

ODS4013E Session data cannot be reconstructed. Please contact Support.

ODS4014E Session data cannot be saved. Please contact Support.

ODS4015E

An error occurred when entering one of the parameters.

Please contact Support.

The entry cannot be converted into the parameter type.

ODS4016E

An error occurred when entering one of the parameters.

The parameter type is not supported.

Please contact Support.

ODS4501E

The road test mode could not be activated.

Please contact Support.

ODS4502E

The license file cannot be opened or read. Road test mode was not activated.

Please contact Support.

ODS4503E

The license file could not be copied. Road test mode was not activated.

Please contact Support.

ODS4504E

The road test mode could not be deactivated.

Please contact Support.

ODS5001E Test program/step ... cannot be loaded. Please contact Support.

ODS5002E

Measurement connection is not available.

Please contact Support.

ODS5003E

A fatal internal test program error has occurred. Test canceled. Error type: ...

Details: ...

Please contact Support.

ODS5004E

Internal test program error. A user action was attempted that is not permitted within a test step. Test canceled.

Please perform the test again or contact Support.

ODS5005E the document ... could not be loaded. Please contact Support.

ODS5006E

The knowledge bank for the vehicle could not be determined. Guided Fault Finding is not possible for this vehicle. Details: ...

Please contact Support.

ODS5007E

A version problem was detected with the ... test.

Please contact Support.

ODS5008E

Decompression of the ... test program failed due to missing or invalid compression. The test program could not load.

Please contact Support.

ODS5009E

Decryption of the ... test program failed due to missing or invalid encryption. The test program could not load.

Please contact Support.

ODS5010E

Signature validation of the ... test program failed due to a missing or manipulated signature. The test program could not load.

Please contact Support.

ODS5501E Control module ... could not be found. Please contact Support.

ODS5502E Connection ... could not be opened. Please contact Support.

ODS5503E Connection ... could not be established. Please contact Support.

ODS5504E

Unexpected result of control module communication, method ...

Please contact Support.

ODS5505E

Control module communication could not be performed, method ...

Please contact Support.

ODS5506E

Error ... during control module communication, job ..., control module ..., ECF error text: ...

Please contact Support.

ODS5507F

Communication descriptive file ... could not be found.

Please contact Support.

ODS5508F

Error when reading the communication descriptive file.

Please contact Support.

ODS5509F

Content of the communication descriptive file invalid.

Please contact Support.

ODS5510E

Communication job ... for control module ... could not be found in the descriptive file.

Please contact Support.

ODS5511E

Faulty description of method ... ... in the description file.

Please contact Support.

ODS5512E

Error when compiling parameters for class ...

Please contact Support.

ODS5513E

Communication job ... for connection ... could not be created.

Please contact Support.

ODS5514E

Fault job description for ... in descriptive file.

Please contact Support.

ODS5515E

Error when providing results of control module communication.

Please contact Support.

ODS5519E

Internal error in test program: Method ... for job ... not found.

Please contact Support.

ODS5551E

Connection name for control module ... could not be found.

Please contact Support.

ODS5552E

Communication job ... could not be established.

Please contact Support.

ODS5553E

Request parameters for communication job ... could not be established.

Please contact Support.

REFERENCE GUIDE MVB

Gasoline Engines

- 00 General Engine Data - Summary
- 01 Engine Idling Test
- 02 Engine Idle - MAF Sensor / Injection Timing
- 03 Engine Idle - Timing / Throttle
- 04 Engine Idle - Intake / Coolant Temperatures

- 05 Engine Functions - Idle Control / Operating Mode
- 06 Engine Functions - Fuel Trim
- 07 General Engine Data - BDE
- 08 General Engine Data
- 09 Oil Fill Level / Fuel Consumption
- 10 Ignition at Idle - Load / Timing
- 11 Ignition at Idle - Temperature / Timing
- 12 Distributor Adjustment
- 13 Injection Quantity Deviation (TDI Only)
- 14 Misfire Recognition - Total
- 15 Misfire Recognition - Cylinder 1-3
- 16 Misfire Recognition - Cylinder 4-6
- 17 Misfire Recognition - Cylinder 7-9
- 18 Misfire Detection Limits
- 19 Misfire Recognition - Cylinder 10-12
- 20 Timing Retard - Cylinder 1-4
- 021 Timing Retard - Cylinder 5-8
- 22 Timing Retard - Cylinder 1 & 2
- 23 Timing Retard - Cylinder 3 & 4
- 24 Timing Retard - Cylinder 5 & 6
- 25 Timing Retard - Cylinder 7 & 8
- 26 Knock Control - Cylinder 1-4
- 27 Knock Control - Cylinder 5-8
- 28 Knock Sensor Test
- 30 Lambda Control - Sensor Status
- 31 Lambda Control - Sensor Voltages
- 32 Lambda Control - Mixture Adaptation
- 33 Lambda Control - Summary
- 34 Lambda Control - Aging Check - Bank 1 / Bank 3 (Pre-Cat)
- 35 Lambda Control - Aging Check - Bank 2 / Bank 4 (Pre-Cat)
- 36 Lambda Control - Sensor Readiness - After Catalyst
- 37 Lambda Control - Delta Lambda - Bank 1
- 38 Lambda Control - Delta Lambda - Bank 2
- 39 Lambda Control - Sensor Exchange
- 40 Lambda Sensor Heating Resistor - Combined Wires / Heaters
- 41 Lambda Sensor Heating - Bank 1
- 42 Lambda Sensor Heating - Bank 2
- 43 Lambda Sensor Aging - Bank 1 (Post-Cat)
- 44 Lambda Sensor Aging - Bank 2 (Post-Cat)
- 45 NOx Memory Catalytic Conversion
- 46 Catalytic Conversion Test Bank 1
- 47 Catalytic Conversion Test Bank 2

- 48 Thermal Cat. Conversion Diagnosis - Bank 1
- 49 Thermal Cat. Conversion Diagnosis - Bank 2
- 50 Engine Speed Increase
- 51 Engine Speed Increase - Gear Shifts
- 52 Engine Speed Increase - RPM Regulation
- 53 Engine Speed Increase - Generator Load
- 54 Closed Throttle Position Switch
- 55 Idle Speed Stabilization

- REFERENCE GUIDE

- Measuring Value Blocks - Gasoline Engines
- 56 Idle Speed Stabilization
- 57 Idle Speed Stabilization - Air Condition
- 58 Engine Mounting
- 60 Electronic Throttle Body Adaptation
- 61 E-Gas Adaptation
- 62 Electronic Throttle
- 63 Electronic Throttle - Kick-Down Adaptation
- 64 Throttle Body Potentiometer Adaptation Values
- 65 Potentiometer Range / Status
- 66 Cruise Control System
- 67 Cruise Control Shut-Off
- 68 Transmission Range / Torque Conversion
- 69 Air / Ride Spring Status
- 70 Fuel Tank Venting / Valve Testing
- 71 Fuel Tank Leak Test
- 72 Fuel Tank Leak Test 2
- 73 Fuel Tank Venting / Mixture
- 74 EGR Regulator Solenoid Adaptation
- 75 EGR Short Trip
- 76 EGR Pressure Systems / Air Mass System
- 77 Test Secondary Air Injection System - Bank 1
- 78 Test Secondary Air Injection System - Bank 2
- 79 Exhaust Flap - Banks 1 & 2
- 80 Advanced Control Module Identification I (Manufacture Date)
- 81 Advanced Control Module Identification II (VIN & Immobilizer ID)
- 82 Advanced Control Module Identification III (Flash Data)
- 83 Advanced Control Module Identification III (First VIN)

- 85 Mileage / Ignition Cycle Count
- 86 Readiness Code I
- 87 Readiness Code II
- 88 Readiness Code III
- 89 Distance Driven with MIL On
- 90 Continuous Camshaft Adjustment - Bank 1 - Exhaust
- 91 Continuous Camshaft Adjustment - Bank 1 - Intake
- 92 Continuous Camshaft Adjustment - Bank 2 - Intake
- 93 Continuous Camshaft Adaption Values
- 94 Continuous Camshaft Adjustment - Banks 1 & 2 - Intake
- 95 Performance Increase - Intake Manifold Change Over
- 96 Continuous Camshaft Adjustment - Banks 1 & 2 - Exhaust
- 97 Performance Increase - Intake Air Change Over / Snow Flap
- 98 Continuous Camshaft Adjustment - Bank 2 - Exhaust
- 99 Lambda Control Shut-Off - Basic Setting
- 100 Readiness Code (Older Systems)
- 101 Fuel Injection
- 102 Fuel Injection
- 103 Air-Shrouded Fuel Injectors
- 104 Start Adaptation Values
- 105 Cylinder Shut-Off
- 106 Fuel Pump Status / Shut-Off Time
- 107 Lambda Regulation - Banks 1 & 2
- 110 Load / Full Throttle Enrichment
- 111 Boost Pressure Control
- 112 Exhaust Gas Temperature
- 113 Load / Full Throttle Enrichment - Last Check
- 114 Boost Pressure Control (%)
- 115 Boost Pressure Control (mBar)
- 116 Boost Pressure Control - Correction
- 117 Boost Pressure Control - Pedal Pos. / Throttle Angle
- 118 Boost Pressure Control - Temperature / Pressure
- 119 Boost Pressure Control - Control Valve Status
- 120 Traction Control - ASR / FDR
- 122 Transmission
- 123 Reserved For CAN-Bus Signals
- 124 Reserved For CAN-Bus Signals
- 125 CAN-Databus Powertrain Communication (Modules 02 / 03 / 17 / 08)
- 126 CAN-Databus Powertrain Communication (Modules 13 / 44 / 15 / 09)
- 127 CAN-Databus Powertrain Communication (Modules 22 / 34 / 16)
- 128 Reserved For CAN-Bus Signals
- 129 Reserved For CAN-Bus Signals

- 130 Map Cooling - Coolant Filling
- 131 Map Cooling - Temperatures
- 132 Map Cooling - Status
- 133 Coolant Fan Configuration
- 134 Temperatures
- 135 Coolant Fan Control
- 136 Relay for Coolant Fan Actuation
- 137 Air Condition Requirements
- 138 Air Mass - Average / Vehicle Speed
- 139 Air Mass - Actual / Specified
- 140 Pressure Control Valve
- 141 Fuel Supply System
- 142 Throttle Position Range / Status
- 143 Charge Movement Flap Opening / Status
- 144 Charge Movement Flap Actual / Specified
- 145 Exhaust Gas Temperature Sensor
- 146 Exhaust / Catalytic Converter Status
- 147 Charge Movement Flap For BDE
- 148 Catalytic Converter Status
- 160 Cylinder Recognition / Control - Cylinder 1-4
- 161 Cylinder Recognition / Control - Cylinder 5-8
- 162 Lambda Control - Delta Lambda - Specified / Actual
- 163 164 165
- 166 O2 Bank 1 Status
- 167 Deceleration Calculation / Thrust Count
- 168 Potentiometer Range / Status
- 169 Turbo Bypass / Status
- 170 Starter Voltage / Relay Status
- 171 Clutch Switch
- 199 Temperatures - Status (Cats/Coolant)
- 200 Readiness Code - Status
- 201 O2 Dwell / Range
- 204 Manifold Pressure 205
- 208 Throttle Opening 209
- 220 Ground Current
- 221 Coolant / Intake Temperature

Glossary

Amplitude

The maximum value that the amount of deflection of an oscillation in an alternating current (for example, in AC voltage) can reach.

Adaptation

This service enables interactive changing of parameters in the control system that is being addressed. The changed values (for example, correction values for idle speed) can be stored permanently in the control modules. The user has the option to change the value and to transfer it into the temporary memory (RAM) to check on the control module. The control module applies the new values to its outputs and the user can check the system's reaction. If the right correction value is found, the tester causes the control module to transfer the value and the workshop code into the writable hard drive (EEPROM).

In contrast to basic setting, the affected control circuit is closed. With the adaptation, system-specific parameters are determined and stored in the vehicle system.

ASAM-ODX

Association for Standardization of Automation and Measuring Systems (http://www.asam.net)

Open Diagnostic Data Exchange

Baseline

A complete version of a DIDB. It contains all required artifacts, tests programs and databases.

Operating Mode

Each of the tester's basic functions that can be accessed from the start screen: "Flashing", "Diagnosis", "Information" and "Admin". Each operating mode is divided into a range of individual functions.

Bluetooth

An industry standard for wireless transmission between devices over short distances.

Client

A program on the PC that enables the connection to a server. A network client is, for example, a program to that establishes the connection to a server in the network so that the PC can be used as a work station in the network.

Collective term for functions, build groups or components that can be diagnosed and are represented in the diagnostic object tree. Not to be confused with diagnostic bus object (definition in DES-VW A11.0 owner's manual) An object (function, component or build group) on which the diagnostic function is used.

Diagnostic objects should be named based on the list. Even if this is not currently the case, it must be done in the future so that wiring diagrams on the tester can be requested according to list terms from Elsa.

Diagnostic Log

The diagnostic log contains a list of control modules with corresponding DTC memory entries, DISS codes and text created manually.

DIDB

Direct current measurement (inline current measurement)

Current measurement in which the tester is inserted directly into the circuit like an ampere meter. Opposite: inductive current measurement via a clamp connected to the cable.

DISS

The DISS system (Direct Information System Service) is used to record vehicle concerns and support the service core process.

- Recording concerns

- Reporting existing concerns

DTC

Diagnostic Trouble Code. An entry in the fault memory. It consists of the fault location, fault types and ambient conditions, if necessary.

ECU

Electronic Control Unit: electronic control module.

OBD

Vehicle systems are OBD-capable. This means they can continually check their own functions, connected sensors and actuators. A malfunction results in the entry of an error code in the vehicle system DTC memory. The tester contains all malfunctions in its knowledge base so that it can allocate the error code to an error type and location after reading the DTC memory and then create a test sample based on that.

Own test plan

Diagnostic strategy where the user selects possible faulty functions or components. If faults in the vehicle systems are detected during the diagnostic sessions or a concern is entered, the test plan always differentiates between the system test plan and the user's own test plan.

End module

An end module can consist of several function tests that start automatically when exiting Guided Fault Finding. For example, feedback may be sent to the vehicle manufacturer.

Incident code

Incident location

DTC memory

Rules of thumb

Logical relationship based on noticeable symptoms and/or symptoms from the fault memory model, among each other or with each other. A rule of thumb can be evaluated according to its reliability and assigned to one or more diagnostic objects.

eShop

eShop is the system for ordering and licensing software and diagnostic data within the Volkswagen Offboard Diagnostic Information System.

Vehicle identification

The vehicle is identified by determining the vehicle basic features (type, model year, version, engine code) that can be detected automatically or partially automatically when a Gateway is present. Based on this data, a list of control modules and equipment that may be installed is created and the vehicle system test checks if these are installed or not.

Feedback

Error classification

Flash data

The flash data are sections of the programs that can be loaded for a vehicle system.

Flash memory

Hard drive whose data remains intact even when there is no power supply. In contrast to permanently programmed memory modules, a flash memory can be updated with a corresponding update program (using the Flash CD).

Gateway components list

A Gateway control module knows the vehicle systems installed in the vehicle. It monitors the vehicle systems and manages a status list. By checking the Gateway components list, for example, a vehicle system can be queried if its DTC memory is set, if it is coded or if communication is possible. The components list is evaluated during vehicle identification and leads to a more effective identification process.

Guided Fault Finding

In Guided Fault Finding, the diagnostic approach is integrated into an optimized process of vehicle identification, vehicle system test, test plan and function tests.

Guided Functions

Performing a vehicle specific function outside of GFF, for example, measuring

Basic Setting

In basic setting, control modules are adapted to the peripheral devices.

Basic features

A vehicle is identified based on the type, model year, version and engine code. Its equipment is then determined through a vehicle system test.

Hardware key, Hardware ID

Hardware features that are coded as a string of characters. The Hardware ID is a component of the device-based licensing.

Hotfix

Calibration

Precise adaptation of a tester (for example, current clamp) based on specifications and the correction of a measuring deviation through compensation of a systematic error.

Measurement

In measurements, you can complete measurements yourself whose results are displayed numerically or graphically on the tester. A multimeter and oscilloscope (DSO) are available.

Measured value block

A fixed group of measured values that are read from a vehicle system.

Mirror server

A software package that is stored locally on the dealer server, for example, and that maintains data for the VAS 505x update programs there. The dealer server is connected centrally and receives current updates from there. Within the workshop, each tester connected to the LAN retrieves the current programs automatically when switched on or explicitly when the "Network update" function in Administration is run.

Offline

There is no active connection to a communication network.

Online

Active connection with a communication network such as the workshop network, the Volkswagen dealer network or the Internet. See all Online connection.

Online log

A log that is sent to the vehicle manufacturer via the online connection.

Online connection

External connection such as one to the Internet or VW server.

Oscilloscope

Measurement and display unit for electrical signals that displays the progression of the signal strength over time (for example, oscillations).

D-PDU-API

The D-PUD-API is a standardized software interface for connecting diagnostic interfaces to the diagnostic software.

Platform

Protocols KW1281, KW2000, KW6000, UDS

The keyword protocols determine the exact process for exchanging data between a control module and the tester. Older control modules communication with KW1281. Newer control modules work with KW2000 or KW6000 (CAN diagnosis). ASAM control modules work with UDS. In vehicle OBD, the tester determines the control module's keyword protocol version automatically before selecting diagnostic functions for the control module.

Provider

A service provider that offers communication services such as telephone, wireless communication or Internet.

Proxy server

A proxy server is an exchange between clients and another network. It accepts requests from the client and forwards their data (sometimes modified or anonymously) to the original source (in another network such as the Internet). Proxies can temporarily store the data locally (cache) for additional access.

Test plan

Weighted sequence of test programs that the operating system suggests to the service technician for repairing the vehicle.

Test step

A self-contained unit in a function test.

RDID

Record Data Identifier. The Record Data Identifier decides on the data type. Via the Record Data Identifier, it is determined which data should be transferred.

Readiness code

8-digit binary code that indicates if all emissions- and safety-related diagnoses were run by engine management.

Control module

Electronic device for controlling and monitoring vehicle functions such as engine control module. Refer to ECU, vehicle system.

Test baseline

The developer version of a DIDB. It can be used either to expand or completely replace the productive data in the installation.

Touchscreen

A screen that also serves as an input device. By touching the contents of the screen, the device (such as a computer or cell phone) can be controlled.

TPS

Traversal test

This type of test identifies control modules and derives information from them that enables automatic vehicle identification. The test automatically cycles through the equipment network structures.

UDS

Unified Diagnostic Services; a standardized protocol in accordance with ISO 14229 for control module communication. Based on KW2000 for ASAM-ODX control modules.
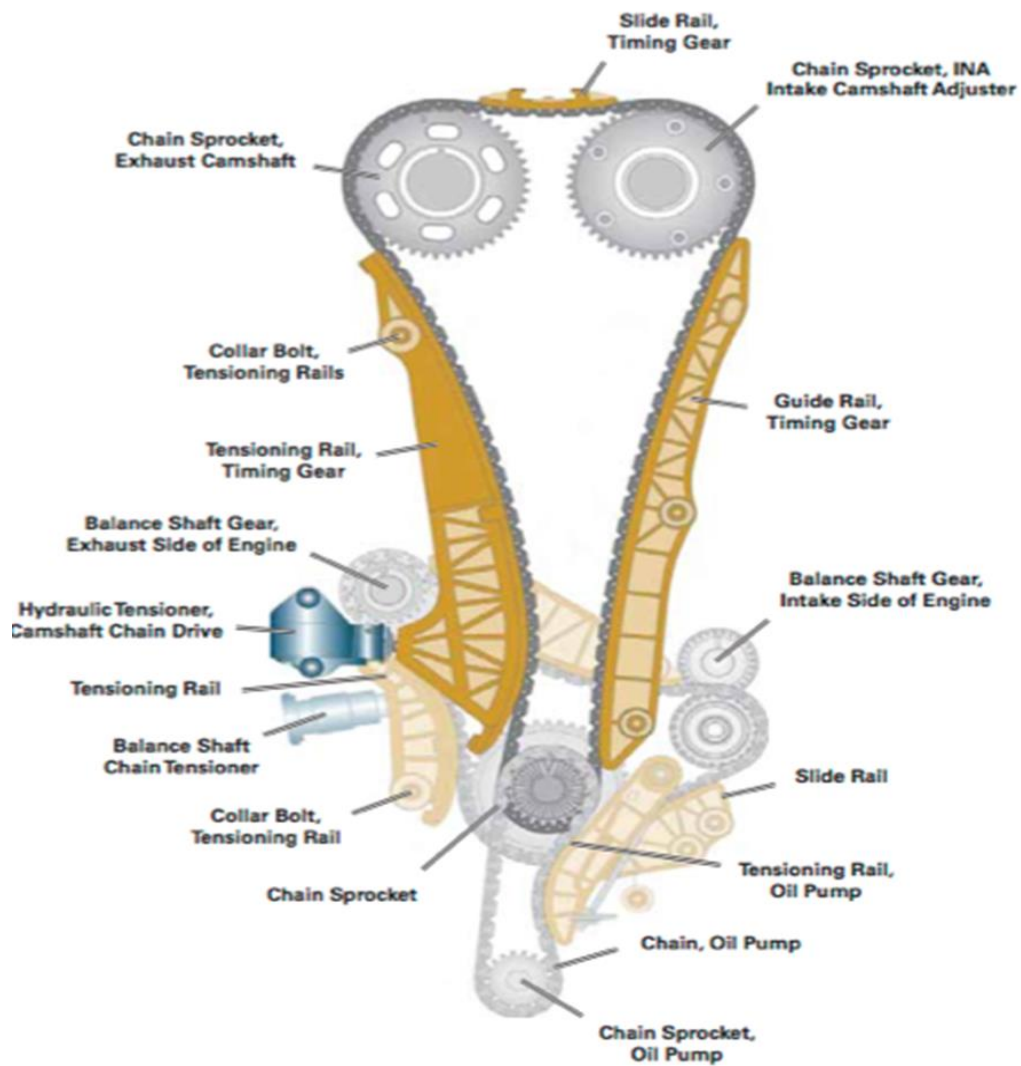
Update

Software modification package for updating existing software to a higher version.

1. New version of the operating system that is downloaded from the CD-ROM.

2. New programming version of a vehicle system that is downloaded from the tester.
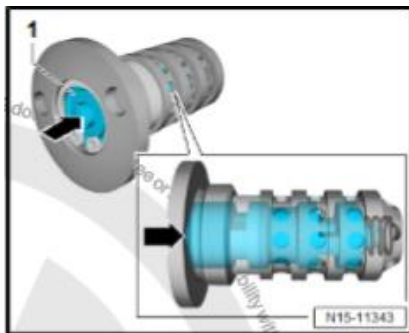
Things to Look out for!

P0016 Timing Fault

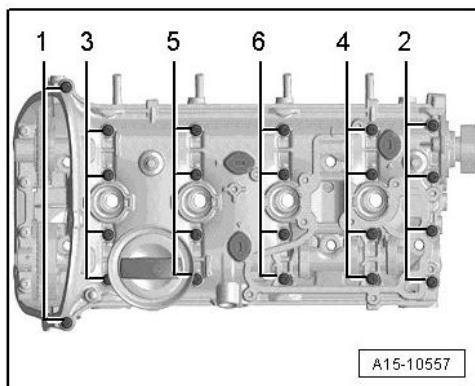Lower Chain Sprocket incorrect position
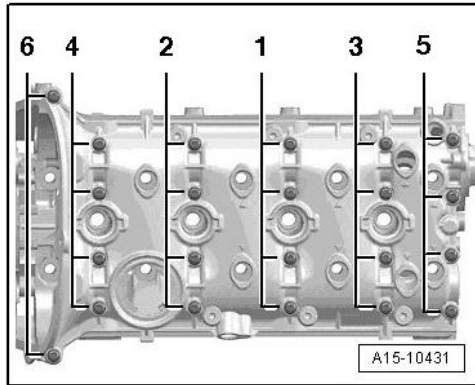
Control Valve Checking

The piston -1- must be pushed in approximately 3 mm against the spring force. It must not become stuck while doing so.

Cylinder head cover

Remove in order 1 through 6.

Install New bolts in order 1 through 6.
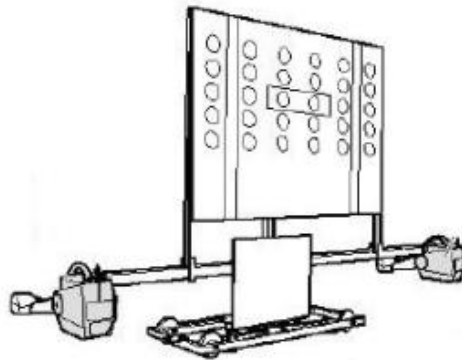
Remove old sealant with flat blade scraper

Sealant D 154 103 a1

Front Radar Calibration Tools
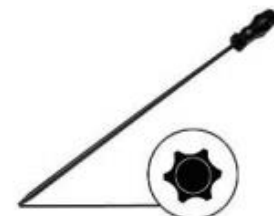
VAS 6292

VAS 6430/3

HUN2018351

VAS 6430/1

VAS 6190/2

VAS Scan Tool w/ ODIS Service

T10113 or T20 Driver

Vas 6350

Used to set up lane change

Ø150 (x12)

Dimensions shown: 225, 275, 275, 100, 50, 50, 50, 1900, 225, 250, 700