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2016 TAIPEI AMPA

EXHIBITION DATES : APRIL 06 - APRIL 09, 2016 TWTC Nanggang Exhibition Center, Taipei, Taiwan Booth Number: M0912

2016 Automechanika Dubai

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2016 Automechanika Frankfurt

EXHIBITION DATES : SEPTEMBER 13 - SEPTEMBER 17, 2016 Messe Frankfurt GmbH Fair Ground, Germany Booth Number: Coming Soon

We look forward to greeting you there!

Latest Versions (Mar, 2016)

2016-03-15		
FUSO	V2015.12/V2016.02	USEN/TWCH
2016-03-04		
iSCAN-II wt IMS2 PKG	V1.00	СНСН
MB Coding	V2015.12	USEN/TWCH/JPJP
IMS2-JLR	V1.00	USEN/TWCH/JPJP
2016-03-01		
CHRYSLER	V2016.01	USEN/TWCH/JPJP
ISCAN-II MINI	V7.01	USEN/TWCH/JPJP/KRKR
MINI	V2014.12SP2 / V2015.12	USEN/TWCH/JPJP/KRKR
SUZUKI	V2014.12 / V2015.12	USEN/TWCH/JP
2016-02-19		
IMS2-BMW-2(ICOM)	V3.00	USEN/TWCH
2016-02-18		
MASERATI	V2014.12 SP1 / V2015.12	USEN/TWCH/JPJP
MAZDA Programming	V2015.12	USEN/TWCH
LANDROVER Programming	V2015.12	USEN/TWCH/JPJP
FORD Programming	V2015.12	USEN/TWCH
GM Global	V2015.05	JPJP
GM	V2015.10	JPJP
OPEL-UK	V2016.01	USEN/JPJP
OPEL-TW	V2016.01	TWCH
SAAB	V2016.01	USEN/TWCH/JPJP
ISUZU	V2016.01	USEN/TWCH/JPJP
ISUZU Truck	V2012.12SP1/V2013.12SP2/V2014.12SP2/V2015.12	USEN/TWCH
ISUZU Truck	V2016.01	USEN/TWCH/JPJP
BMW Programming	V2016.01	USEN/TWCH/JPJP
BMW Programming	V2015.12/V2014.12SP3	USEN/TWCH
BMW F-CIP	V2016.01	USEN/TWCH/JPJP
BMW F-CIP	V2015.12/V2014.12SP4	USEN/TWCH
BMW Encoding Database	V2016.01	
2016-01-28		
FIAT	V2015.11 / V2014.12SP1 / V2012.12	USEN/TWCH/JPJP
OBDII	V2015.12	USEN/TWCH/JPJP
DAIHATSU	V2014.12 / V2015.12	USEN/TWCH/JPJP

RENAULT	V2014.12 SP2 / V2015.12	USEN/TWCH/JPJP
2016-01-08		
PORSCHE Programming	V2015.02 / V2014.12	USEN/TWCH/JPJP
2016-01-06		
BMW Diag F Series	V2015.12 / V2014.12SP4	USEN/TWCH/JPJP/KRKR
MB	V2015.12 / V2014.12SP3	USEN/TWCH/JPJP
LANDROVER	V2015.12	USEN/TWCH/JPJP
HINO Truck	V2012.12SP1	USEN/TWCH
HINO Truck	V2015.11	USEN/TWCH/JPJP
PEUGEOT	V2015.10 / V2014.12SP1	USEN/TWCH/JPJP
CITROEN	V2015.10 / V2014.12SP1	USEN/TWCH/JPJP
NISSAN/INFINITI	V2015.12 / V2014.12SP2	USEN/TWCH/JPJP/MXSP
MITSUBISHI	V2015.12 / V2014.12SP1	USEN/TWCH/JPJP
2016-01-04		
iSCAN-II wt Supercar PKG YUP 2016		TWCH
iSCAN-II wt Programming PKG YUP 2016		СНСН
VeDiS-II Supercar PKG YUP 2016		TWCH

Yearly Update Project (YUP) Software

Software release monthly for: iScan-IIwt /VeDiS-II EURO PRO YUP 2016 iScan-IIwt /VeDiS-II ASIAN PRO YUP 2016 Please get the updates from website.

Technical Guidance

VASS DSG The 7-speed Transmission Calibration

1. Introduction of Dual Clutch / Direct Shift Gearbox (DSG)

The dual-clutch transmission was designed to eliminate the lag inherent in SMTs and manuals. The twinclutch transmission is essentially two separate transmissions with a pair of clutches between them. One transmission provides odd-numbered speeds (ie first, third and fifth gear), the other provides even-numbered speeds (second, fourth and sixth). When the car starts out, the "odd" gearbox is in first gear and the "even" gearbox is in second gear.

The clutch engages the odd gearbox and the car starts out in first gear. When it's time to change gears, the transmission simply uses the clutches to switch from the odd gearbox to the even gearbox, for a near-instant change to second gear. The odd gearbox immediately pre-selects third gear. At the next change the transmission swaps gearboxes again, engaging third gear, and the even gearbox pre-selects fourth gear.

Dual-clutch transmissions use two fundamentally different types of clutches: one is two wet multi-plate clutches, bathed in oil (for cooling)—and the other is two dry single-plate clutches. The wet clutch design is generally used for higher torque engines that can generate 350 newton metres (258 lbf·ft) and more, whereas the dry clutch design is generally suitable for smaller vehicles with lower torque outputs up to 250 N·m (184 lbf·ft). However, while the dry clutch variants may be limited in torque compared to their wet clutch counterparts, the dry clutch variants offer an increase in fuel efficiency, due to the lack of pumping losses of the transmission fluid in the clutch housing.

2. How to distinguish the 7-speed DSG UDS and Non UDS Transmission

(1). 0B5 Transmission

Transmission version shows ASAM on first line of ID page is UDS system. Please check this e-paper: VASS DSG (UDS) The 7-speed Transmission Calibration -1

	EV_TCMDL501
SAM version	A02044
СU Туре	0B5 30 TDIRdW
Part Number	8R09271560
Software version	0009
Coding	Long coding
Dealer number	6335
lardware No.	0B5927156E
mporter	0
Diagnostic info.	4-6002-0274-2

(2). 0AM Transmission

Transmission version NO shows ASAM on first line of ID page is Non UDS system. Please check this e-paper:

VASS DSG (Non UDS) The 7-speed Transmission Calibration -2



• 0B5 DSG (UDS) The 7-speed Transmission Calibration

1. Distance sensor calibration

- A. When to perform Distance sensor calibration:
- (1). Removal/Replacement/Repair or change lever
- (2). Change gears
- (3). The ECU has been replaced
- B. Pre-requisites :
- (1). Start the engine and keep vehicle idling
- (2). The Shift position is in the Park position
- (3). No fault on ecu
- (4). Do not depress brake pedal
- (5). Transmission temperature 20 60 $^\circ\mathrm{C}$

2. Clutch engagement point adaptation

- A. When to perform Clutch engagement point adaptation:
- (1). The clutch has been replaced.
- (2). The ECU has been replaced.
- B. Pre-requisites :
- (1). Start the engine and keep vehicle idling
- (2). The Shift position is in the Park position
- (3). Transmission temperature 40 100 $^\circ\!\mathrm{C}$

3. Reset start point adaptation to the factory setting

- A. When to perform Reset start point adaptation to the factory setting:
- (1). Repair gear actuator
- B. Pre-requisites :
- (1). Turn off the engine and turn ignition On
- (2). The Shift position is in the Park position

4. Adaptation of multi-function transmission range (TR) switch

- A. When to perform Adaptation of multi-function transmission range (TR) switch:
- (1). The gearshift lever has been replaced.
- (2). The ECU has been replaced.
- B. Pre-requisites :
- (1). Turn off the engine and turn ignition On
- (2). No any related fault on gearshift lever
- (3). The Shift position is in the Park position
- (4). Pull hand brake

• How to perform this function utilizing iScan-llwt / VeDiS-ll:

(For example: 2012 AUDI Q5)

1. Select Vehicle Diagnostic \rightarrow EUROPEAN





2. Select VW AUDI SEAT SKODA



3. Select AUDI -> Q5/SQ5

VASS	Type selection
1 VOLKSWAGEN	1 A1
2 AUDI	2 A2



4. Select 2009> -> 2012(C)



5. Select Individual System Search \rightarrow Common system

Function Select	Select System
1 Whole System Search	1 Common system
2 Individual System Search	2 Power transmission system
3 Quick Service	3 Chassis system



6. Select Transmission electronics

This is UDS DSG 7-speed Transmission, Not Available for Non UDS DSG 7-speed Transmission. (Transmission version shows ASAM on first line of message is UDS system)

Common system		Identification - 02	
1 (01) Engine electronics I		ASAM	EV_TCMDL50
2 (02) Transmission electronics		ASAM version	A02044
3 (03) ABS		ECU Type	0B5 30 TDIRd
4 (00) A (0) haster electropies		Part Number	8R09271560
		Software version	0009
5 (09) Electronic central electrics		Coding	Long coding
6 (15) Airbags		Dealer number	6335
7 (16) Steering wheel electronics		Hardware No.	0B5927156E
8 (17) Dash panel insert		Importer Diagnostic info	0 4-6002-0274-2
9 (19) Data Bus On Board Diagnos Interface	stic	Bidghostio Inio.	4 3002 0214 2
10 (25) Immobilizer			
11 (35) Central locking		Press ENTER to continu	le
12 (37) Navigation			
	ಳಿಗಿಟ್ ಕೆಗ್ಗಳ್.		

7. Select Basic Setting \rightarrow Distance sensor calibration







8. Press Right to start basic setting

Basic Setting- 02		Basic Setting - 02	
Distance sensor calibration		Distance sensor calibration	
Press Right to start basic setting		Press Left to stop basic setting	
		active	
	Solo - Think		\$0.17.7.4hin.

9. Select Diagnostic Session Selection





10. Select VW-diagnostic mode

Diagnostic Session Change - 02	- 02
1 OBD-diagnostic mode	Please wait
2 Programming mode	
3 VW-diagnostic mode	
4 Diagnosis mode for safety-related system	
5 End of assembly line mode (EOL)	Complete
6 Development mode	Press EXIT to continue
7 Manual	
PULLER .	ชูกน้อะระการ เ

11. Select Basic Setting \rightarrow **Clutch engagement point adaptation**





12. Press Right to start basic setting



הלהולילילה היהילילילה

13. Basic setting ended





14. Select Diagnostic Session Selection \rightarrow VW-diagnostic mode



15. Select Basic Setting

-2	CAN-system -02	
Please wait	1 System Information	
	2 Read Fault Code	
	3 Clear Fault Code	
	4 Data Stream	



16. Select Reset start point adaptation to the factory setting

Basic Setting- 02	Basic Setting-02
 Main pressure valve calibration Write / reset gear set excessive temperature counter 	Reset start point adaptation to the fac setting
3 Reset start point adaptation to the factory setting	
4 Adaptation of multi-function transmission range (TR) switch	Press Right to start basic setting
5 Schreiben PKP0 Anlernwerte	
6 Schreiben ESP Einsatzwerte	
7 CAN EPB	
8 Clutch engagement point adaptation	
9 Clutch valve calibration	
10 Cooling oil valve wear detection	
11 Distance sensor calibration	
12 Erase counter for start and stop processes	
WOILS HALF	2

17. Select Basic Setting







18. Select Adaptation of multi-function transmission range (TR) switch



19. Check shift position on the car after active





20. The Shift position is in the Park position



21. The Shift position is in the Drive position



22. Please shift lever to the Drive position



23. The Shift position is in the Neutral position



24. Please shift lever to the Neutral position



25. Basic Setting ended





VASS DSG (Non UDS) The 7-speed Transmission Calibration -2:

• 0AM DSG (Non UDS) The 7-speed Transmission Calibration

- 1. When to perform Transmission calibration:
- (1). Removal/Replacement/Repair transmission
- (2). The ECU has been replaced.
- 2. Pre-requisites :
- (1). No fault on ecu
- (2). Transmission temperature 30 60 $^\circ \! \mathbb{C}$
- (3). The Shift position is in the Park position
- (4). Pull hand brake
- (5). Depress brake pedal
- (6). Do not depress gas pedal

How to perform this function utilizing iScan-llwt / VeDiS-ll:

(For example: 2011 AUDI A1)

1. Select Vehicle Diagnostic \rightarrow EUROPEAN





2. Select VW AUDI SEAT SKODA



3. Select AUDI -> Q5/SQ5



4. Select 2011(B)



5. Select Individual System Search \rightarrow Common system



6. Select Transmission electronics

This is Non UDS DSG 7-speed Transmission, Not Available for UDS DSG 7-speed Transmission (Transmission version NO shows ASAM on first line of message is Non UDS system)



7. Select Read Fault Code (make sure there is no fault code on the car)

CAN-system -02		Read Fault Code-2	
1 System Information			
2 Read Fault Code			
3 Clear Fault Code		No Fault Code.	
4 Data Stream			
5 Activation			
7 Coding / Software Download			
10 Basic Setting			
11 Login ECU / Coding II			
12 Adaptation			
15 Security Access			
	Satorthin,		\$9.19.14P14

8. Select Basic Setting



9. Input 060

Basic Setting - 02	Ba	sic Setting - 02
Block number : 060(0-255)	Basi	ic Setting 060 Measured values in
	1	253
	2	1
	3	12
	4	No data
ENTER: Confirm input		
	AUPPOLAND."	AUT

10. Please start the engine when the data becomes 4 0 0, and keep depress brake pedal





11. When the data becomes 254 0 0 means that calibration is completed. Please turn ignition off, and do test drive learning.



Note: If the data becomes 254 7 0, the calibration is not successful; if the data becomes 255 0 0, the calibration is interrupted or failed.

Test Drive procedures:

- 1. Shift the gear to "Drive" and then accelerate to 2nd Gear for 2 times.
- 2. Shift the gear to "Reverse" and then drive backward for a short distance for 2 times.
- 3. Under Manual Mode, drive forward and with different gear incrementally. Stay at each gear for at least 3 seconds.
- 4. Drive 2 minutes each on Gear 4th and Gear 6th. Maintain RPM in 2000-4500.
- 5. Drive 2 minutes each on Gear 3rd, 5th and 7th. Maintain RPM in 2000-4500

6. Check the first set of Value Block 180 and 200 after the test drive. Only a value of above 3 indicates the learning a success.





VALUE BLOCK180	
1	5
2	655350 km
3	50
4	No data





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