

AUTOLAND ePaper



Total Diagnostic Solutions



Exceed Your Expectations

 Trade Show

Automechanika Frankfurt 2010

September 14 - September 19, 2010

Messe Frankfurt GmbH -- Ludwig-Erhard-Anlage 1, 60327 Frankfurt am Main
Hall & Booth Number: **Hall 9.0 E92**

AAPEX 2010

November 2 - November 4, 2010

Sands EXPO Center, Las Vegas, NV, USA

Booth Number: **1258**

We look forward to greeting you there!

 iSCAN-II / D91 Latest Versions (July, 2010)

iSCAN-II SAAB	V2.00 SP1	English/Chinese/Japanese	2010-07-08
iSCAN-II FIAT	V3.00 / V2.00 SP2	English/Chinese/Japanese	2010-07-08
iSCAN-II HONDA	V3.01	English/Chinese/Japanese	2010-07-08
iSCAN-II MITSUBISHI	V3.00 / V2.03 / V1.06	English/Chinese/Japanese	2010-07-08
D91-FIAT	V2.02 SP2	English/Chinese/Japanese	2010-07-08
D91-MITSUBISHI	V4.06 / V3.56	English/Chinese/Japanese	2010-07-08

 VeDiS Yearly Update Project (YUP) Software

Software releases monthly for D91-EURO PRO YUP 2010 / D91-ASIAN PRO YUP 2010.
YUP customers, please get the updates from website.

 Technical Guidance

VW / AUDI: DSG Basic Setting

Introduction:

The twin-clutch transmission, also known as the Direct Shift Gearbox (DSG) or dual-clutch transmission, is an automated transmission that can change gears faster

than any other geared transmission. Twin-clutch transmissions deliver more power and better control than a traditional automatic transmission and faster performance than a manual transmission.

The twin-clutch transmission is essentially two separate transmissions with a pair of clutches between them. One transmission (or gearbox) 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. The twin-clutch transmission's computerized controller calculates the next likely gearchange based on speed and driver behavior and has the "idle" gearbox pre-select that gear.

When to do DSG Basic Setting:

1. After replacing the mechatronic
2. 18115 Interface in Mechatronic Module
3. 01087 Basic Setting Not Performed

Prerequisites:

Before proceed the DSG basic setting, please make sure the the following conditions:

1. ATF temperature should be between 30~100°C (86~210°F).
2. Shift position: P
3. Turn ignition ON
4. Start the engine
5. Step on brake pedal, not on accelerator pedal.

Example: 2008 VW GOLF GTI

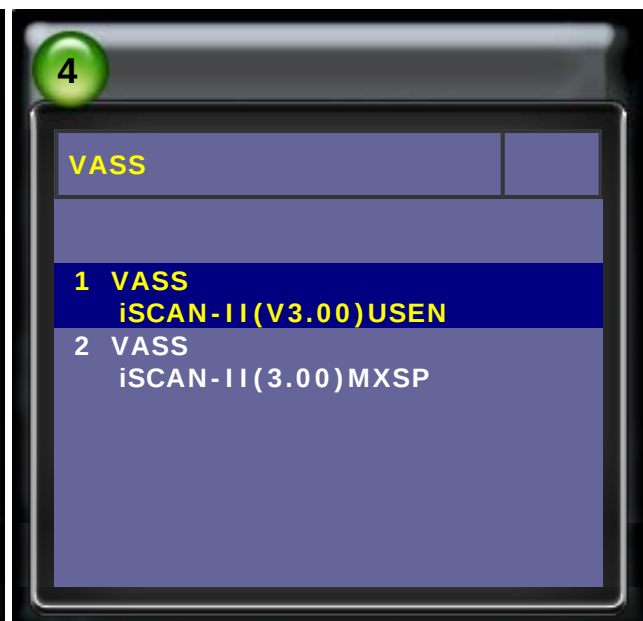
Procedures on iSCAN-II:

Example: 2008 VW GOLF GTI

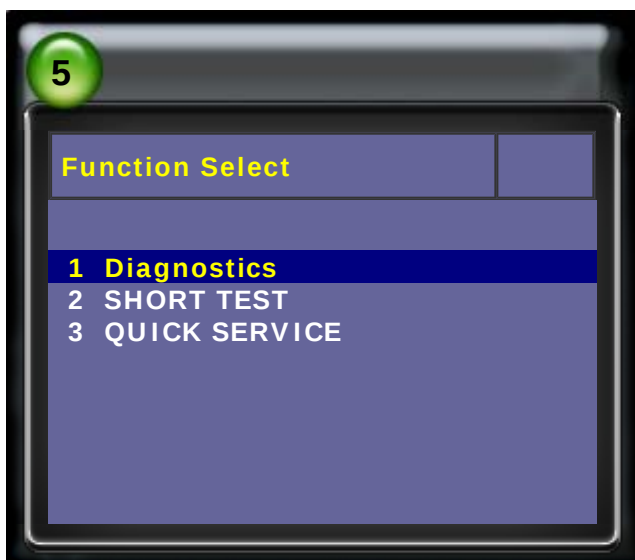
1. Select **Vehicle Diagnostic** -> select **EUROPEAN**



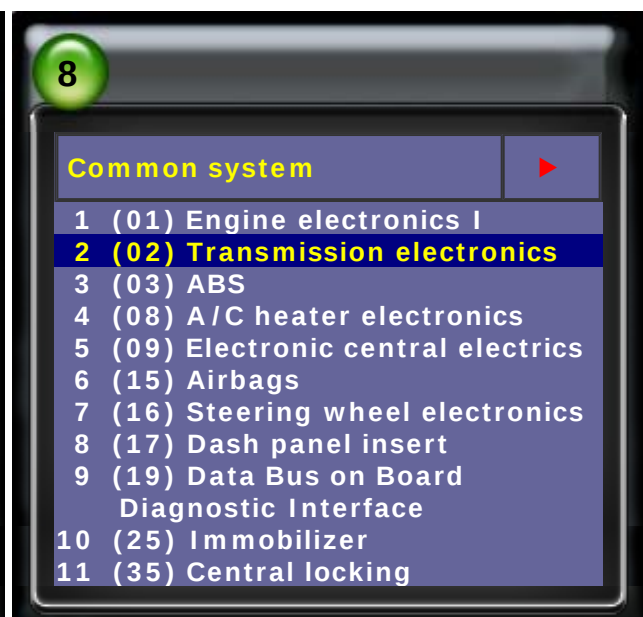
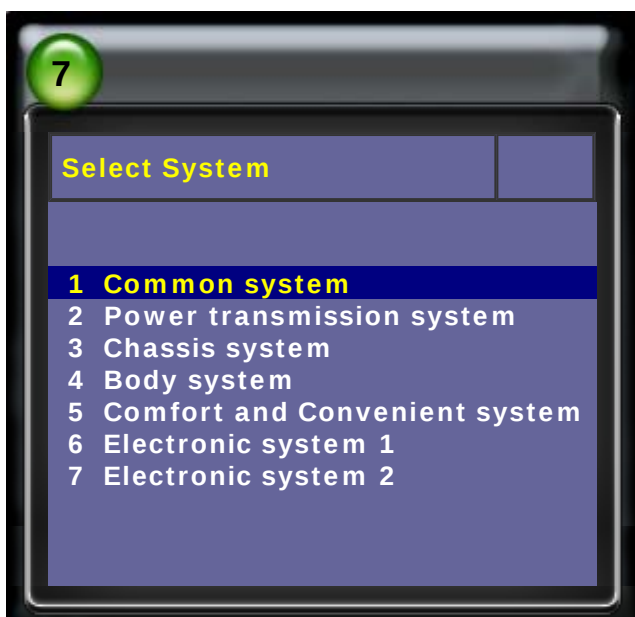
2. Select **VASS** software



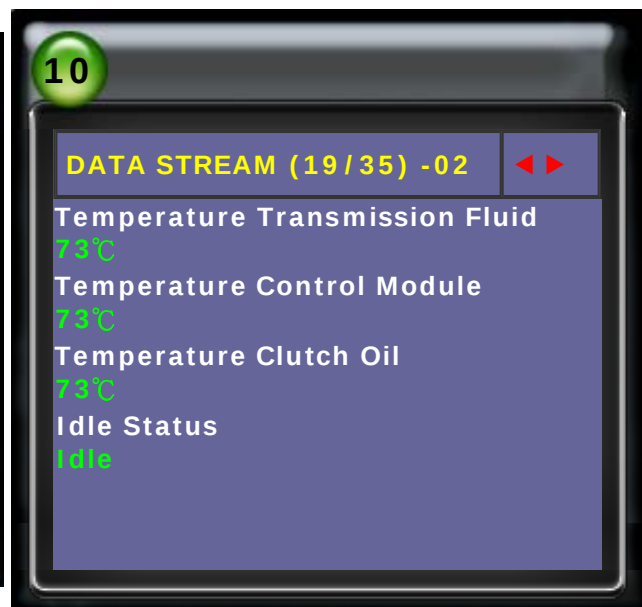
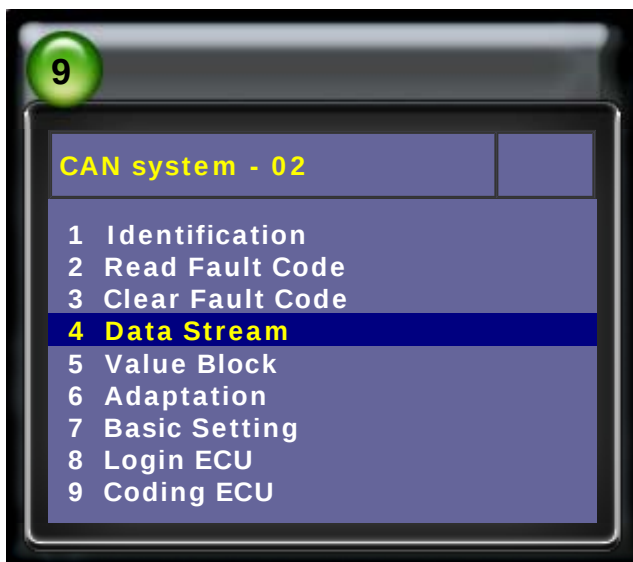
3. Select **Diagnostics**, then select **VOLKSWAGEN**



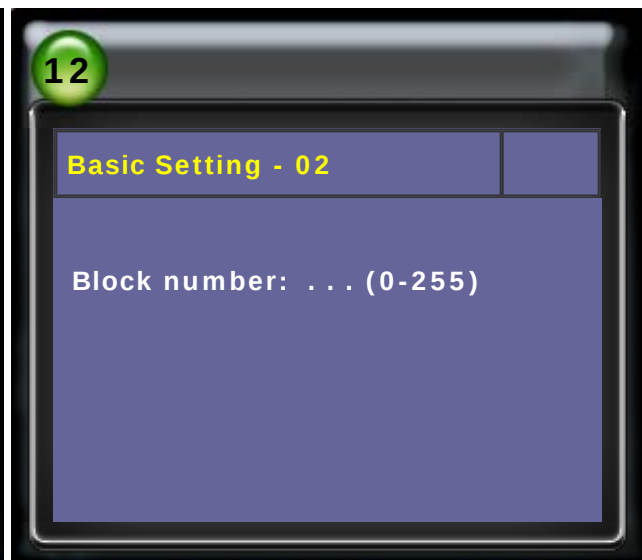
4. Select **Common system**, then select **Transmission electronics**



5. Select **Data Stream** to check that the **temperature transmission fluid** is within the specified scope.



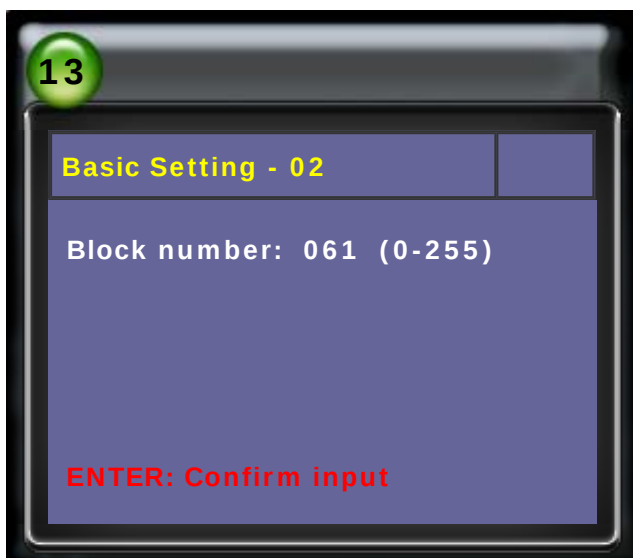
6. Select **Basic Setting**



7. Set **Transmission Tolerances (Engaged Calibration)**.

Input the block number **061** and press ENTER to confirm input.

(The transmission will be activated, please exit this setting after all the activation.)



(The value before activation)

(The value after activation)



8. Set **Transmission Tolerance (Synch. Point Measurement)**

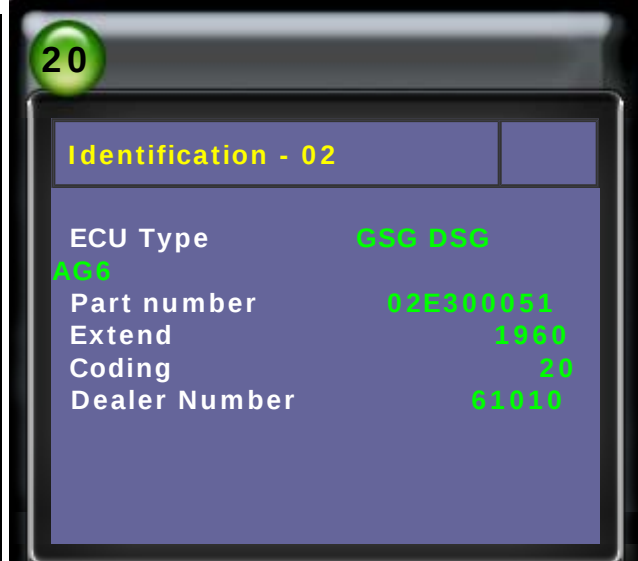
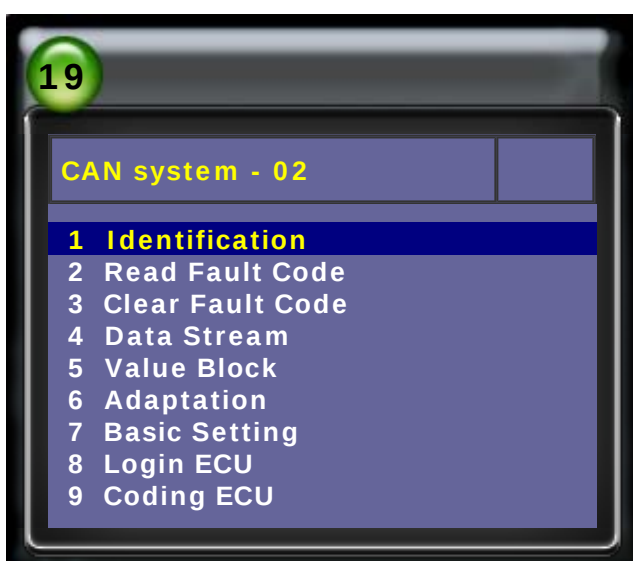
Input the block number **060** and press ENTER to confirm input.



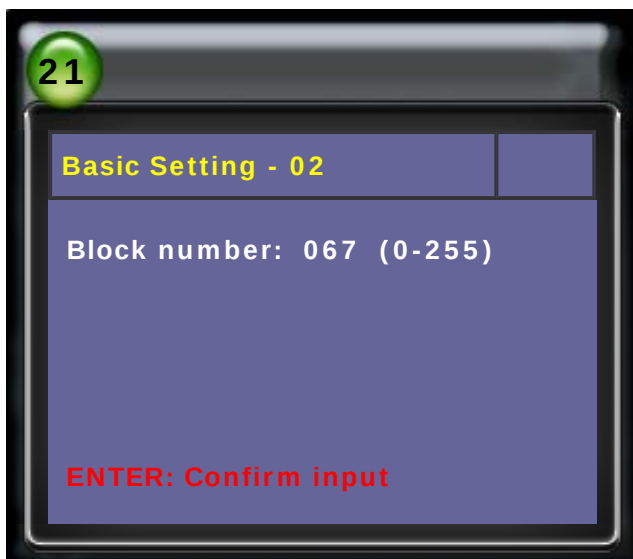
9. Set **Clutch Adaptation.**

If the Control Module Software Version < 0800, the block value is 062.

If the Control Module Software Version ≥ 0800, the block value is 067.

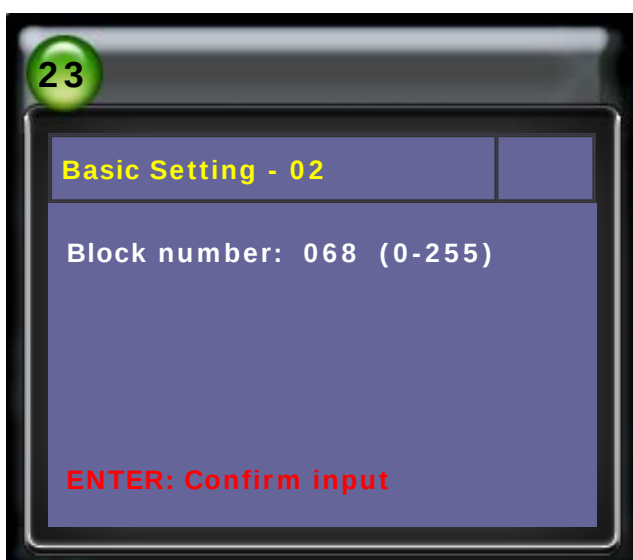


10. Set **Clutch Adaptation.** The value **1960** > 0800, so input the black number **067**.



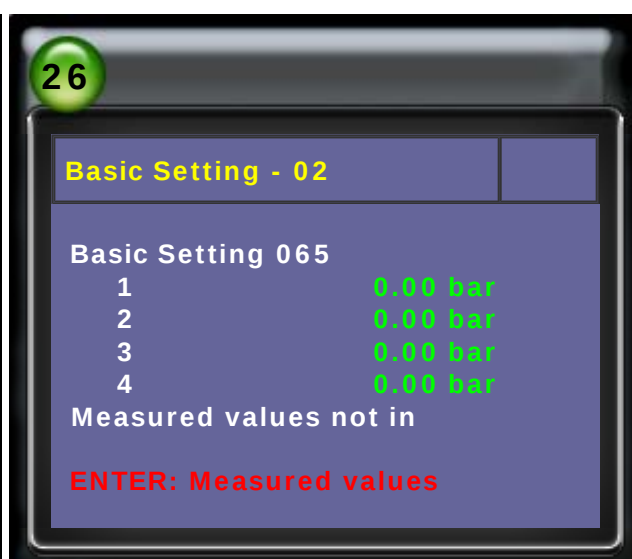
11. Set **Reset Values (Clutch Safety Function)**

Input the block number **068** and press ENTER to confirm input.



12. Set **Reset Values (Pressure Adaptation)**

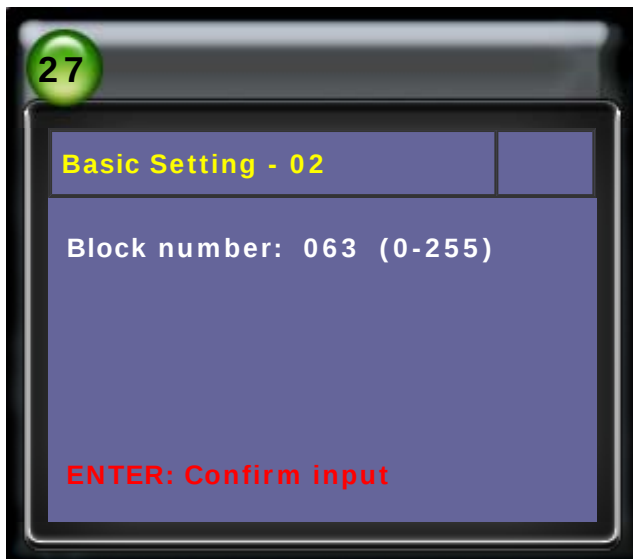
Input the block number **065** and press ENTER to confirm input.



13. Set **Reset Values (Steering Wheel Paddle Installation)**

Input the block number **063** and press ENTER to confirm input.

(If the steering wheel paddle is not equipped on the car, please skip this step.)



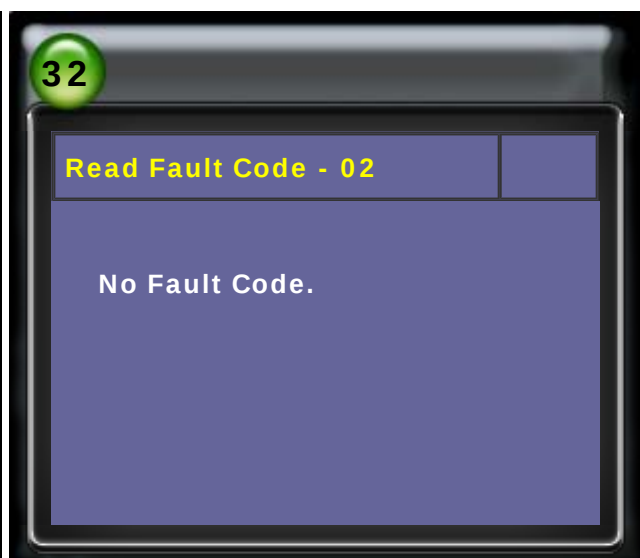
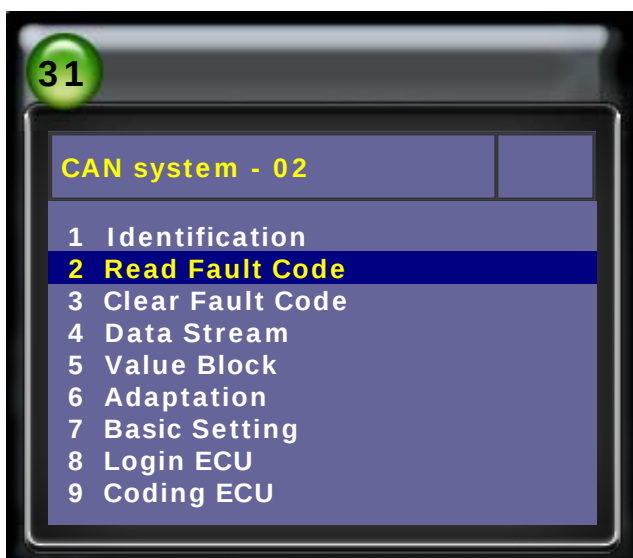
14. Set **Reset Values (ESP & Tip Cruise Control Installation)**

Input the block number **069** and press ENTER to confirm input.

(If there is no ESP & Tip Cruise Control Installation on the car, please skip this step.)



15. Please check and clear fault code after successful basic setting.



16. After replacing the mechatronic or successful basic setting,

please proceed the test drive.

Please be sure that ATF temperature is between 30~100℃ (86~210°F).

- (1) Drive in Tiptronic Mode from stand still up to 6th Gear.**
- (2) While doing that make sure to drive in Gears 3 or 5 for approx. 5 minutes and also in 4 or 6 for approx. 5 minutes.**
- (3) The engine speed window for all gears is 1200 - 3500 RPM (for clutch calibration).**
- (4) Perform one sharp braking followed by a full throttle acceleration (oil return check).**
- (5) Evaluate creep and starting-off points.**
- (6) Check for leaks.**