



1 - scannerdanner.com | 12/21/2021

CONTENT

- Intro
- Setup
- How-to use
- Diagnostic examples
- Feedback

INTRO

Works with F/G series BMW/Mini cars. With ExtaTool you can do next:

- Read/clear DTC
- Disable/enable Valvetronic
- Disable/enable Xdrive
- Disable/enable EGR valve on diesel engines
- Read ZF automatic transmission adaptation values
- Open/close radiator flaps / Activate fuel pump up to 20 minutes
- Service / customer mode for rear brakes and EHC / Change air suspension level
- Check FRM / Very fast battery registration / reset BDC
- Simulate KL15 "Ignition ON" to diagnose ECU on the table
- Disable/enable wideband O2 sensor in next release

SETUP

- Any Android mobile phone with Android version more than 5.0
- ELM 327 Bluetooth adapter
- Android Play Market
- Active Google account on your phone

SETUP. ELM327

- ELM 327 Bluetooth adapter
- OBDLink Bluetooth adapter
- Pair your adapter with your phone







SETUP. INSTALL SOFTWARE

- Make sure your have active Internet connection
- Open Google Play Store on your mobile phone
- Type ExtaTool in search field
- Press Install





- Open ExtaTool
- Enter Your name and OK or press Cancel
- Press Agree



- Go to Setting
- Press Adapter
- Press Bluetooth ELM / OBDLink
- Select / tap Your Adapter from the list
- Press Back



🔌 電福加磁加 89% 🖬 Select adapter type C ENET OF ICOM NANO WI-FI ELM-327: 1.5, 2.2 BlueTooth ELM-327: 1.5 , 2.2,0BDLink O Bluetooth ELM327 (for KL15 simulator) O Remote via internet O Simulate adapter Pair you device in system menu Select adapter from list 00:1D:A5:1C:89:45 AA:BB:CC:11:22:33 BMW 48314 60:E6:F0:02:33:72

- Press any grey-out icon
- Press Full
- Press Right Arrow



- Press Redeem code
- Type SCDANNER
- Press Redeem
- Press Back
- Press Subscribe



HOW-TO USE

- Enable Bluetooth in your phone
- Press Test Adapter
- If all right Good Adapter
- If something goes wrong No answer



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READ DTC. CLEAR DTC

- Press read DTC / clear DTC
- 12 / 40 ECU address in HEX
- 990496 / 991312 SGBD ID
- MEVD1723 / BDC ECU name
- His / act history error / actual error
- CE this error activate Check Engine lamp

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- BMW 535i GT F07 comes to dealership with a lot history errors messages about missing communication between Flexray ECU's
- Car owner told that all error messages appear when he started engine early morning
- CD9437 communication error between DME and DSC was more frequent (8) than other errors and sporadically
- ISTA ABL did not help to resolve this case
- Car owner has already changed DSC. He has installed used DSC for test purposes in another independent repair shop



расширенные виды неисправностей В данный момент неисправность отсутствует В настоящий момент ошибка не вызывает никаких сведений о во

Условия окружающей среды

Условие	Первая запис
Информационная запись (1: да, 0: нет)	1
Код ошибки SAE	1 3 10 78 2.
Метка времени	260367213 s
Booner	116960 km
VactotHOCTE	8
Изстота врашения явигателя	40 1/min
Тампаратира выуток ЭБУ	54.75 °C
температура внутри обу	12.37 V
Актуаль е напряжение аккумулиторлог са р	0 s

VIN-номер: C189815 Автомобиль: 5'/F07/SAT/535//N55/Al

ABL-DIT-AT6131_SYS_TIMOU - Анализ системы шины САМ

Действие

Передающие блоки управления с указанием вероятности возникновения ошибки:

- 1.DSC-----*--- (7 из 43)
- 2.DME-DDE--*--- (2 из 57)

Начать поиск ошибки в блоке управления с самой

- Full error text in ISTA: DME CD9437 DSC, Flexray: Missing communication
- Full error text in ExtraTool: 0xCD9437: Flexray, message (request wheel torque drive train sum stabilization / nominal distribution longitudinal moment front axle rear axle, 43.1.4) at under voltage: communication error
- The problem was in corrosion wire
- I fixed this car very fast and client was happy
- ExtraTool helps even when you just read the DTC



EGR REDUCE

- Press read
- 0.0 means EGR works like BMW wants
- 0.7 / 1.4 / 7.9 (for N/B engine) and Write
- Up to 83 / 87 for M diesel engine
- Accepted all good
- Rejected try another value
- Try to type as much value as you can

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EGR PROGRA Try different values fro highest value less EGR(0.0 READ WRITE This function work li More fresh air - More fue This improvement is not de Also you take a more clear and less wear and tear on t group	MMING om 0.1 to 1.4 more fresh air) ke a tuning. el - More power! etected as tuning. n intake manifold the cylinder-piston	EGR PROGRA Try different values from highest value less EGR(7.9 READ WRITE ACCEPTE This function work ling More fresh air - More fue this improvement is not de Also you take a more clead and less wear and tear of piston grou	MMING om 0.1 to 1.4 more fresh air) D ke a tuning. el - More power! etected as tuning. n intake manifold on the cylinder- p Ш В К и и и и и и и и и и и и и и и и и и

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and

CONNECTED

ZF AT ADAPTATION VALUES

- Press Automatic transmission
- Typical values

Shift device	Adaption limits Charge pressure	Adaption limits Quick charge time				
А	approx 400 mbar to +350 mbar	approx 40 ms to 120				
В	approx 400 mbar to +350 mbar	approx 60 ms to 100				
С	approx 400 mbar to +350 mbar	approx 50 ms to 120				
D	approx 300 mbar to +200 mbar	approx 300 ms to +200				
E	approx 300 mbar to +300 mbar					

15:37 🖭

C

POW

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Fill pressure in clutch

CLUTCH A:	90 mbar
CLUTCH B:	130 mbar
CLUTCH C:	163 mbar
CLUTCH D:	74 mbar
CLUTCH E:	120 mbar

Fill time in clutch



DISABLE VALVETRONIC

- Engine is working on IDLE / KOER
- Press Vvt control
- Tap G/F series engine disable or E series disable
- Press Vvt disable / Valve opens to max position
- Shutdown and start engine again to enable Vvt

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= e	Xtratoo		VVT CO	NTROL	
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DTC 3	READ DTC	CLEAR DTC	VVT DIS	SABLE	
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VVT CONTROL	on G/F DISABLE	on E (CAN) DISABLE			v
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- BMW 750i G11 comes to dealership with a lot actual errors messages about misfire and mixture
- All errors were only on Bank 2
- Errors were in 800 1700 RPM
- When engine running on IDLE it sounds not good
- I've turned VVT off engine started to work on IDLE better
- In 5 minutes I understood that the problem was in engine mechanics



- After teardown engine, mechanic found that gear on eccentric shuffle has too much free play
- Free play on Bank 1 was about 4 mm
- Free play on Bank 2 was about 14 mm



- After teardown engine, mechanic found that gear on eccentric shuffle has too much free play
- Free play on Bank 1 was about 4 mm
- Free play on Bank 2 was about 14 mm
- Please Play Video



RADIATOR FLAP

- Tap Radiator flap
- Tap Open
- All radiator flaps are opened
- Tap Close
- All radiator flaps are closed



FUEL PUMP

- Tap Fuel pump
- Tap ON / OFF
- Fuel pump can be activated up to 20 min.



REAR BRAKE

- Tap Rear brake
- Tap Service mode
- Replace rear brake pads
- Tap Customer mode



TRANSAXLE

- Engine is running on IDLE
- Tap Transaxle
- Tap Disable
- Xdrive will be disabled
- Tap Enable or restart engine
- Xdrive will be enabled



- BMW X5 F15 is jerking while driving
- Engine was chiptuned on Stage 2 before
- Problem appeared after chiptuning
- Problems may be in Xdrive or chip software
- If you remove Xdrive fuse engine lose power and no jerking
- Still misunderstanding where the problem is
- After disabling Xdrive using ExtraTool full engine power available
- No jerking anymore

- 25 -

- Xdrive hardware was broken immediately after chiptuning
- Works like M4WD / M2WD mode on M-cars
- Can be used if you like rally style in driving and drifting





HEIGHT CONTROL

- Tap Lock to convert EHC to service mode
- Tap Reset to revert EHC mode
- Tap +40 / 40 / Normal to change air suspension level

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CHECK MILEAGE

- Tap Check mileage
- Result: VIN, mileage in every ECU

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owertrain <mark>6</mark>	CONTROL 2	THERMO CONTROL	FLAP	PUMP 2	VIN:7D47803 KM :47803		
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LIGHTS AND WASHERS

- Tap Lights and washers
- Tap Icons
- Lights or washers will be activated



CHECK FRM

- Tap Check FRM
- Black codes you can continue diagnostic
- Alerts immediately flash FRM (Ista / WinKFP / Esys)

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FRM	FRM	
Information Codes	Information Codes	
9318	CAUTION!!! FRM CAN BE DAMA 9330 9319	AGED!
Diagnostic Codes	Diagnostic Codes	
A8AF A8AE	A8AA IIICAUTION! FRM CAN BE DAM 9330 9CB5	AGED!!!

подсоедине

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CONNECTED

100%

HEATER

- Tap Heater
- Tap On / Off
- Webasto will be unlocked if locked state before and starting / stopped



ASSYST. RESET BDC

• Tap Reset BDC

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ASSYST. SLEEP ALL

Tap Sleep all

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ASSYST. SET TIME

• Tap Set time and date

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ASSYST. TRANS MODE

Tap Transport mode off

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ASSYST. SHOWMODE

Tap Showroom mode

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REGISTER BATTERY

Tap Register battery

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KL15 / IGN ON SIMULATOR

- Simulate KL15 ON state for different ECUs
- It is needed if you want to enable single ECU on table
- Select ECU and tap KOMBI / NBT / EVO / OTHER
- You can diagnose / flash / code (Inpa/Tool32/WinKFP/NCS/Esys)
- Tap Stop to shutdown ECU

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KL15 / IGN ON SIMULATOR

- Connect ELM327 (CAN H/L pins) to ECU (CAN H/L pins)
- Power on ELM327
- Run KL15 simulator
- Power on your ECU
- Diagnose / flash /code using J2534 interface
- Stop KL15 simulator
- Power off ECU / ELM327





CODE. VO / FA READ

- Tap VO / FA read
- Result: all options SA/LA/PA elements with descriptions

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\square					216	SERVOTRONIC	
444	REAR	TRANSAXL	<u>=O</u>		21C	19 inch M LT/A.W.DO.SP.442 M BICOLOR ORB	
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0000	LIGTHS		HEATER	ADDVOT	428	WARNING TRIANGLE	
BODY	AND WASHERS	CHECK	nearer 2	A55151	441	SMOKERS PACKAGE	
5	Contraction and the second				465	THROUGH-LOAD SYSTEM	
0			ECU		481	SPORT SEATS F DRIVER/FRONT PASSENGER	
	×-v			\sim	493	STORAGE COMPARTMENT PACKAG	E
5 SIMULATOR	KOMBI G	NBT NBTEVO	OTHER	STOP	494	SEAT HEATING F DRIVER/FRONT PASSENGER	
2.5					4AE	ARMREST FRONT RETRACTABLE	
< >	Ξ	G			4WG	INT. T. FIN. ALU.HEX.W. H.T.F.BL.H-	
					521	RAIN SENSOR	
CODE	VO(FA) Read	SECURITY			534	AUTOMATIC AIR CONDITIONING	
2	(m)	2020			544	CRUISE CONTROL WITH BRAKING FUNCTION	
2. <mark>0</mark> .		<u>°</u>			548	SPEEDOMETER WITH KILOMETER READING	
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CODE. SECURITY

- Tap Security 2020
- Enter ECU address in HEX
- Tap Check

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TEST ADAPTER

- Press Test Adapter
- If all right Good Adapter
- If something goes wrong No answer



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REMOTE

- Remote access to diagnose car
- Does not full work at the moment
- It will allow you to remote diagnose your clients car like BMW IRAP

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FEEDBACK. SEND LOG

- Press Settings
- Press Send log
- Press Exit
- Start ExtaTool again
- Press Exit





- Dear colleagues! In my dealership repair shop there are not so many different BMW cars, I haven't had a chance to test my application in all range BMW engines
- If you find bugs, please be so kind and send logs and write email to me.
- If you want something special for your own purposes , please write me too
- I will add these functions in next release specially for you
- <u>audiserg@gmail.com</u>
- Thank you so much for watching! Best regards, Sergey.