MS43 DME - EWS Synchronization for work on the table

https://www.aikawa-net.com

https://wwwmay2025Wa-net.com

Required Items

- Inpa K+DCan Cable
- BMW Scanner 1.4
- EWS Editor Lite



https://www.aikwa-net.com

- EWS3 + Transponder chip (PCF7935A)+Transponder Coil
- KMB(IKE) Cluster Unit (same type of year) Each module was obtained secondhand.

Vehicle Orders for Cluster Units

• Vechie Order (Car equipment information) = VO

Ex. Xenon headlights, Automatic Transmission

TZCS Type (~9/2001) VO is written in KMB(Closter)& EVVS)

• FA Type (9/2001~) VO is written in AKMB(Cluster)& ALSZ

Need the same type of Cluster Unit as your car

EWS 3/4 Test Platform

- Transponder coil required for EWS operation
- I used a modified EWS3/4 Test Platform instead of a transponder coil.



EWS Editor Lite

EWS~DME ISN Code (Password)



Check communication of each module

Check the communication of the three modules using BMW Scanner.

https://

formation about car a	nd ZCS/FA coding		×	
Information about car —				
Parameter	IKE	EWS		
Chassis	E46	E46		
Model	328ci	328ci		
Body	Coupe	Coupe		
Engine	M52B28	M52B28	100	
Gearbox	Automatic	Automatic		
VIN	JB43600	WBAAP32010JB43600		
Odometer	177960 km	177955 km		
ZES JEA coding				
LISTRA cooling				
Type-Key	BM52	BM52		
ZCS GM	61520710-B	61520710-В		
ZCS SA	0004880001B21028-J	0004880001B21028-J		
ZCS VN	00004012FB-4	00004012FB-4		
Options	< 0205 > Automatic transmission	< 0205 > Automatic transmission	_	
	< 0534 > Automatic air conditioning	< 0534 > Automatic air conditioning		
	< 0550 > On-board computer	< 0550 > On-board computer		
	< 0522 > Xenon light	< 0522 > Xenon light		
	< 0305 > Remote control for central locking syst	< 0305 > Remote control for central locking syst		
	< 0403 > Glass sliding sunroof	< 0403 > Glass sliding sunroof		
	< 0459 > Seat adjustment, for driver and front p	< 0459 > Seat adjustment, for driver and front p		
	< 0502 > Headlight cleaning system	< 0502 > Headlight cleaning system		
	< 0548 > Kilometer-speedo	< 0548 > Kilometer-speedo		
	< 0802 > Korea version	< 0802 > Korea version		
	< 0807 > Japan version	< 0807 > Japan version		
	< 0823 > Hot country version	< 0823 > Hot country version		
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Preparation of software and data files

- Flashing Tools (MS4X WIKI)
 - JMGarage Flasher
 - MS4X Flasher (Activation is required)

http://www.tunerpro.net/Wa-net.com

- TunerPro MS43 Community Patchlist (MS4X WIKI)
- VIN to HEX (Search by "Vin to hex converter")
- Firmware (MS4X WIKI)
 - Siemens_MS43_MS430069_E46_M54B30_EU4_RHD.bin

Work Procedures

 Writing VIN to the downloaded DME data file (Using Tuner Pro,VIN to HEX and TunerPro MS43 Community Patchlist)
Check the checksum of the file created in 1. (Using MS4X Flasher)
Writing to/DME with bootmode KWA-DELCOM (Using JMGarage Flasher)

- 4. Synchronization of EWS and DME (Using INPA)
- 5. Confirmation of synchronized data (Using INPA)

How to check MS43 DME ISN Code

Check this the 2 bytes of the following address match the EWS Editor password

Read ROM



Synchronization for work on the table.

• Introduce the wiring diagram for synchronizing the EWS with the DME on the table.

https://www.aikwa-net.com

Configuration of each module



Connection with INPA cable

- MS4x Wiki (https://ms4x.net) How to connect
- DME(MS43)
- · 456 GND I 3 K-Line / WWW.a KWa-ne 456 Om
 - ⑦ Vcc (TERM 30) 12V (always on Power Supply)
 - 18 Aux Power Supply (Key Switech2 On)

X60001

Connection with INPA cable

• I use a modified cable for DME sold on ebay.

https://v



• Only the 7-pin of this cable was modified to be a always-on power connection.

Connection to KMB(Cluster Unit)



Connection to EWS

- 10 Vcc (TERM 30) +12V (always on Power Supply)
- (1) Aux Power Supply (Key Switech2 On)



• 9 GND

14 IMMO CODE SIGNAL → DME MS43 X60004 33 COOM B K-BUS → KMB X11175 14

• 512 Transponder Coil

Wiring for K-BUS

- K-BUS requires a pull-up resistor to be connected.
- The K-BUS divice (KMB, EWS) is connected as shown in the figure below.

Three 1/4W 1K Ohm resistors were used, connected in parallel.

K-BUS



Important

- DME X60004 26 to Aux Power Supply (Key Switech2 On)
- Be sure to reproduce Key position 2. (Aux Power Supply)

Wiring for power supply



Thank you for watching!

• The materials used in this video are distributed as PDF files at the following URL

https://www.aikawa-net.com/view/1378 https://www.aikawa-net.com/view/1378 Please like and follow me!