Mini Diag 2 Functions and Commands List

Main Menu - Mini Diag 2

1 Mini Diag 2 info
2 ecu search routines
- 1 KWP2000
- 2 J1587 - N/A
- 3 Free running - N/A

Mini Diag2 info

1 release info
2 sw / hw version
3 display
- Contrast
- Back light

sw / hw version

- A Code (fuel map)
- Serial no (Mini Diag S/N)
- OSSW - ver - 4.35.23 (Mini Diag Software version)

To Access M-B Industrial Engines

Main Menu
ECU Search Routines - OK
KWP 2000 - OK
Allow the ECU search to continue until the "ECU List" is displayed

PLD

Text - means the Mini Diag recognizes and can communicate with the PLD

Diagnostics
Set Parameters
Routines
Password Routines
System Info

Set Parameters

1 - Read / Write (to change paramenters)
2 - Select parameter set (to upload)
3 - Store Modified Parameter Set (to download)
4 - Convert Parameter Set

System Info

A Code (i.e. A061 447 31 40)
Engine number
Data Set (i.e. Fuel Map - A061 447 31 40 ZGS 001)

Diagnostics

1 Show Actual Values - Show Analog / Binary
2 Show Fault Code Memory - Actual, Stored, and Delete fault code memory

Show Analog values

1 Engine Torque Demand
2 Max moment torque
3 Actual Torque
4 Injection Time
6 Actual Speed Demand
7 Actual Speed Limit
8 Demand Speed
9 Auxilary Speed (W) terminal
10 Act Eng Spped
11 Eng Speed Grad Limit
12 Vehicle Speed
13 Coolant Temp
14 Fuel Temperature
15 Oil Level
16 Oil Temperature
17 Boost Temp
18 Boost Pressure
19 Ambi Pressure
20 Oil Pressure
21 Supply Voltage
22 Governor Type
23 Engine Status
24 Fuel Pressure
25 Scavenging Gradient
26 Fan Speed
27 Booster Speed 1
28 Booster Speed 2

Binary Values - 0 = Not Active

1/1 - Configuration **1 = Active**
1/2 - free
1/3 - free
1/4 - free
2/1 - Warmign Buzzer
2/2 - Stop Lamp
2/3 - CAN - status low
2/4 - CAN - status high
3/1 - terminal 15 PLD
3/2 - terminal 15 CAN
3/3 - terminal 50 PLD
3/4 - terminal 50 CAN
4/1 - Starting Tip Switch
4/2 - Stop Tip Switch
4/3 - Starter Output PLD
4/4 - Starter Lock MR (PLD)
5/1 - Analog value 1
5/2 - Analog value 2
5/3 - Analog value 3
5/4 - Analog value 4
6/1 - Engine Exhaust flap
6/2 - Decompression valve
6/3 - free
6/4 - free
7/1 - Engine Protection
7/2 - Maximum Load
7/3 - Max Speed Limitation
7/4 - Smoke Limiter
8/1 - Analog value 5
8/2 - Analog value 6
8/3 - free
8/4 - free

Routines

01 - Voltmeter - sensor signal voltage values
- Boost Pressure
- Ambient Boost Pressure Sensor
- Oil Pressure / Air Charge Sensor
- Fuel Pressure sensor - N/A
- Oil Level Sensor
- Boost Temp Sensor
- Coolant Temperature Sensor
- Fuel Temperature Sensor - N/A
- Oil Temperature Sensor
- Desired Torque w/o CAN
- Supply Voltage
- Oil Pressure Active
- Scavenging Gradient P2S-P3

02 - Cylinder Cut Out
03 - Compression Check
04 - Idle Speed Balance
06 - Pump-Line-Nozzle change
09 - Engine Hours
10 - Display Fuel Map
11 - EHM read
13 - PV-Control (Proportional Valve)
14 - LRR delete

ADM

Text - means the Mini Diag recognizes and can communicate with the ADM

Diagnostics	**Set Parameters**	
Set Parameters ----------	1 - Read / Write (to change paramenters)	**System Info**
Routines	2 - Select parameter set (to upload)	A code (i.e. A000446 48 35)
Password Protection	3 - Store Modified Parameter Set (to download)	Diag ver (i.e. 204) pin 1
System Info	4 - Convert Parameter Set	description file - A ADM2 208

Diagnostics

1 Show Actual Values - Show Analog / Binary
2 Show Fault Code Memory - Actual, Stored, and Delete fault code memory

Show Analog values
01 - Analog Acc Pedal
02 Supply Analog Pedal
03 - Analog Remote Pedal
04 - Supply Remote Pedal
05 - Selected Pedal Value
06 - Calc. Pedal Torque
07 - Actual Engine Speed
08 - Actual Torque
09 - Friction Torque
10 - Governor Type
11 - Demand Engine Speed
12 - Demand Torque
13 - Minimum Engine Speed
14 - Maximum Engine Speed
15 - Road Speed
16 - Set Speed Cruise C
17 - Voltage Coolant Level
18 - Status Coolant Level
19 - Voltage Air Filter
20 - Pressure Air Filter
21 - Coolant Temperature
22 - Oil Pressure
23 - Oil Temperature
24 - Voltage Terminal 15
25 - Voltage Terminal 30
26 - C3 - Signal Frequency
27 - C3 - Signal Diagnosesp?
28 - J1939 Active TSC1
29 - J1939 dem. Speed
30 - J1939 Demand Torque
31 - J1939 Max Speed
32 - J1939 Max Torque
33 - PWM Pedal Gas 1
34 - PWM Pedal Gas 2
35 - Status Grid Heater
36 - Boost Temperature
37 - IWA output
38 - Software version

Binary Values - 0 = Not Active
1/1 - Terminal 15
1/2 - Service Brake
1/3 - Park Brake
1/4 - Clutch
2/1 - Cruise Control CC-
2/2 - Cruise Controal CC+
2/3 - Cruise Control CC_EIN
2/4 - Throttle Select
3/1 - Engine Brake Low
3/2 - Engine Brake High
3/3 - PTO Set Switch
3/4 - Limiter0 Set Switch
4/1 - Limiter1 Set Switch
4/2 - Shutdown Override
4/3 - Limiter KLIMA Switch
4/4 - Fan
5/1 - Acc Pedal Lockout
5/2 - Transm. Neutral
5/3 - Rear Axle
5/4 - ABS
6/1 - GAS2 (IVES 1)
6/2 - GAS1 (IVES 2)
6/3 - eng. brake(s) j19
6/4 - Kickdown
7/1 - Zero Injection
7/2 - Zero Injection J1939
7/3 Signal (Kl. 50)
7/4 DFSO
8/1 - DSF1
8/2 - MBR-BK
8/3 - MBR+KD
8/4 - Relay 1
9/1 - Relay 2
9/2 - Realy 3
9/3 - Relay 4
9/4 - Engine Hood (bus)

Routines
01 - Acc, Pedal Adjust
02 - Set parameters to default ** **Do Not Touch** ***
03 - Oil Level lamp
04 - Engine Stop Lamp
05 - Fault Lamp
06 - Grid Heater Lamp
07 - Air Filter Lamp
08 - Relay 1
09 - Realy 2
10 - Relay 3
11 - Relay 4
12 - MBR_BK
13 - MBR_KD
14 - IWA output
15 - Engine Speed Gauge
16 - Cool. Temp Gauge
17 - Oil Pressure Gauge
18 - Activate Protection
19 - Enable Access
20 - Show Active Functions
21 - Backdoor Function