ND.2 Mazda MX-5 Cup - AiM Configurations

Mazda MX-5 Cup cars include the AiM MXS 1.3
(-2023 AiM MXL2)

Data Configuration files for the AiM system can be selected and downloaded from list below.

The file you need is dependent on the particular AiM Dash and sensors you have added to your car. We highly recommend "Receiving" your current configuration from your dash for your records and to verify which sensors are selected in the channels.

Once the new configuration has been imported into RaceStudio3, we suggest "Cloning" it and making any new changes to the cloned configuration.

<u>NOTE:</u> **Always update the RaceStudio3 software prior to updating configuration files. This will ensure the latest ECU drivers are being used. Always update the AiM Dash Firmware through Racestudio3 software prior to loading configurations to ensure full functionality.**

The latest Racestudio3 software and can be downloaded at:

AiM MXS 1.3 Configuration:

Configuration files for use with ND2 Bosch MS6 ECU Release 0111:

Flis MXS 1.3 - 2024-04-10 - Base Configuration - SADEV
(Standard Flis Performance functions and alerts configuration with the following Sensors: Diff temp, Trans Temp, Oil Temp, Oil Pressure, Low Fuel Pressure and Water Pressure)
NOTE: Please choose which sensors your vehicle has in the Channels tab.

AiM MXL2 Configuration:

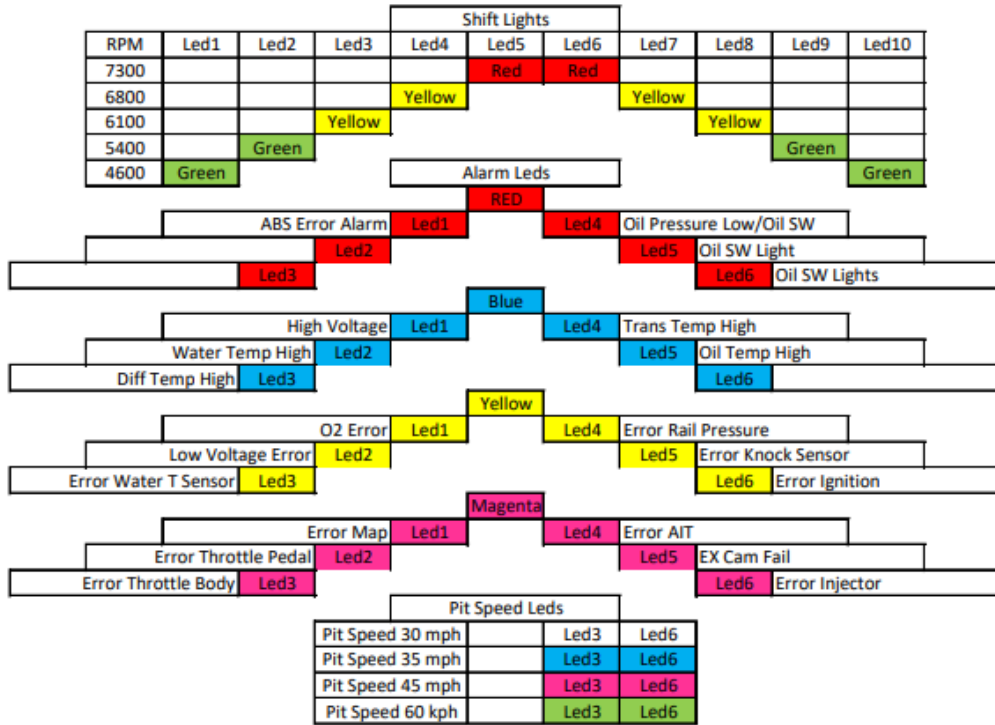**Configuration files for use with ND2 Bosch MS6 ECU Release 0111:**

Flis MXL2 - 2024-04-10 - Base Configuration - SADEV
(Standard Flis Performance functions and alerts configuration with the following Sensors: Diff temp, Trans Temp, Oil Temp, Oil Pressure, Low Fuel Pressure and Water Pressure)
NOTE: Please choose which sensors your vehicle has in the Channels tab.

Flis Performance AiM Dash Display

Shift Lights

RPM	Led1	Led2	Led3	Led4	Led5	Led6	Led7	Led8	Led9	Led10
7300					Red	Red				
6800				Yellow			Yellow			
6100			Yellow					Yellow		
5400		Green							Green	
4600	Green									Green

Alarm Leds — RED

ABS Error Alarm	Led1	Led4	Oil Pressure Low/Oil SW
	Led2	Led5	Oil SW Light
	Led3	Led6	Oil SW Lights

Blue

High Voltage	Led1	Led4	Trans Temp High
Water Temp High	Led2	Led5	Oil Temp High
Diff Temp High	Led3	Led6	

Yellow

O2 Error	Led1	Led4	Error Rail Pressure
Low Voltage Error	Led2	Led5	Error Knock Sensor
Error Water T Sensor	Led3	Led6	Error Ignition

Magenta

Error Map	Led1	Led4	Error AIT
Error Throttle Pedal	Led2	Led5	EX Cam Fail
Error Throttle Body	Led3	Led6	Error Injector

Pit Speed Leds

Pit Speed 30 mph	Led3	Led6
Pit Speed 35 mph	Led3	Led6
Pit Speed 45 mph	Led3	Led6
Pit Speed 60 kph	Led3	Led6

AIM Control

1	Trans Pump and Fan - Output 1 &2 Closed to Ground (Over 80f, Over 5mph, RPM Over 500)
2	Trans Fan Fault - Output 1 &2 Closed to Ground (Less Than -50f)
3	Diff Pump and Fan - Output 2 & 1 Closed to Ground (Over 80f, Over 5mph, RPM Over 500)
4	Diff Fan Fault - Output 2 & 1 Closed to Ground (Less Than -200f)

Gear Box Voltage

Rev.	0.54
Neutral	0.855

1st	1.178
2nd	1.818
3rd	2.449
4th	3.092
5th	3.729
6th	4.364

Shift Force Voltage

2.5 +/- 0.1 volts

Flis Performance AiM LED & Shift Light

Dash Display

Main
RPM
Gear Position
GPS Speed
Warter Temp
Lap Number
Perdictive Time
Water PSI
Oil PSI
EX Voltage
Oil Temp
Message
100 Oct Map Selected
93 Oct Map Selected
Fuel Reset

Main 2
RPM
Gear Position
GPS Speed
Warter Temp
Lap Number
Perdictive Time
Low Fuel Psi
Lam
Diff Temp
Trans Temp
Message
100 Oct Map Selected
93 Oct Map Selected
Fuel Reset

Best Time
RPM
Gear Position
GPS Speed
Warter Temp
Lap Number
+ - Test Best Time
Water PSI
Oil PSI
EX Voltage
Oil Temp
Message
100 Oct Map Selected
93 Oct Map Selected
Fuel Reset

Best Time 2
RPM
Gear Position
GPS Speed
Warter Temp
Lap Number
+ - Test Best Time
Low Fuel Psi
Lam
Diff Temp
Trans Temp
Message
100 Oct Map Selected
93 Oct Map Selected
Fuel Reset

Warm Up
RPM
Gear Position
RPM
Brake Presure
Gear Pos Volts (No Force 2.5v)
Gear Shift Volts (N = 0.855v)
Intake Cam Pos
Exhaust Cam Pos
Message
100 Oct Map Selected
93 Oct Map Selected
Fuel Reset

Warm Up 2
Vehicle Speed
Wheel Speed FL
Wheel Speed FR
Wheel Speed RL
Wheel Speed RR
Message
100 Oct Map Selected
93 Oct Map Selected
Fuel Reset

Warm Up 3
Fuel Counter
Fuel Rail Press
Fuel Press Low
Fuel Map Switch
Fuel Total
Message
100 Oct Map Selected
93 Oct Map Selected
Fuel Reset

AIM Channels

Dash	Harness
RPM	N/C
Spd1	N/C
spd2	N/C
spd3	N/C
spd4	N/C
Ch01	DiffTemp
Ch02	Trans Temp
Ch03	Oil PSI
Ch04	Oil Temp
Ch05	Fuel Press Low
Ch06	Water PSI
Ch07	N/C
Ch08	N/C
AccX	AccelerometerX
Accy	AccelerometerY
AccZ	AccelerometerZ
GyroX	GyroX
GyroY	GyroY
GyroZ	GyroZ
Accu	GPS Accuracy
Spd	GPS Speed
Alt	Altitude
OdD	Odometer
Luma	Luminosity

SmartyCam 3 Corsa

SmartyCam3 Corsa Configuration:
MX-5C 2024 SmartyCam3 Corsa Configuration

NOTE: SmartyCam3's are formatted differently than SmartyCam's. You can not take an SD card from one camera to another without reformatting the SD Card.

SmartyCam

SmartyCam Configuration:

MX-5C 2023 SmartyCam Configuration

Additional Information:

For further information regarding AiM Dash Configurations, please contact Ashli Richardson with Flis Performance at the information below.

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