

OBD2 Gauge Programming for MM4X4 Parameter IDs (PIDs)

This document provides the instructions to setup an OBD2 reader (such as an UltraGaugeMX, ScanGauge or a phone App) so that it can display lockup kit internal data. The lockup kit can be queried with custom PIDs just like any other ECU on the vehicle CANBus.

The lockup kit can provide the following data for display:

1. Mode

The current operating mode of the lockup kit.

- -1 = lockup kit is OFF,
- 0 = vehicle is in SPORT/manual mode, or
- 1, 2 or 3 = the meaning depends on then individual kit

2. Pedal Position

The accelerator position percentage 0-100%

Cool feature! When using Cruise Control even if the pedal isn't being pressed, it displays the pedal position that the cruise control system is demanding.

3. Lockup Status

When the lockup kit is ON, this is the same as the LED status, which is ON when the lockup kit has the torque converter locked.

When the lockup kit is OFF the LED is OFF, so this is then the lockup status from the factory ECU computer.

Reading MM4X4 PIDs is currently available in selected products as follows:

• auto-mateSPORT (for the MR Triton only)

This list last updated 11 Jun 2024.

This feature is active even if the lockup kit is switched OFF, so the OBD2 gauge can continue to display useful information rather than "ERROR", or "No Data".

The OBD2 reader must be programmed with the MM4X4 PIDs in order to display the parameters.

This document provides instructions on how to setup the following OBD2 gauges to query the above parameters:

- 1. UltraGauge MX (link) <----our preferred gauge solution
- 2. ScanGauge2 (link)
- 3. ScanGauge3 (link)
- 4. CARSCANNER App with ELM327 dongle

NOTE: All the following instructions assume that you have a basic knowledge of how to use your gauge and how to configure the displays. These instructions address the creation of the MM4X4 PIDs.

Programming the UltraGauge MX



The UltraGauge MX has the ability to access non-standard, manufacturer specific gauges.

NOTE: The UltraGauge EM <u>does not</u> have this capability, so the MX version should be purchased.

These instruction are for both the UltraGauge MX versions 1.3 and 1.4.

To monitor the lockup kit parameters, you need to program custom PIDs into the UltraGauge using the M-Gauge feature.

The following steps will setup the M-Gauge to measure your chosen parameter (Mode, Pedal %, or Lockup Status).

If you want to monitor all the kits' parameters, repeat the whole process and create an M-Gauge for each parameter.

Enter the M-GAUGE Menu

These instructions assume you are familiar with how to use the UltraGauge menu system and how to setup a page to display your preferred vehicle parameters onto the gauge screen. If not, please refer to the UltraGauge operating manual for more detail.

DISPLAY

STEP

Back Gauge/Page Menu .. Fuel Menu .. Vehicle Setup .. UltraGauge Setup .. Display settings .. Alarms .. Trouble Codes ..

<u>STEP 1</u>

Enter the main menu and select the *Gauge/Page*.. menu

→ Select Gause/Pase Zero Ave Speed Zero Ave MPG, G/H Zero All Trip Zero Run Time Zero Oil Distance	•••
Zero Run Time	

<u>STEP 2</u>

Select *Gauge/Page* . . menu

Back Select Gauges •• Page settings •• →M Gauge Setup •• Unassign All Gauges Load Default Gauges

<u>STEP 3</u>

Select the *M Gauge* Setup menu

<u>STEP 4</u>

The next steps create the M-Gauges for the MM4X4 PIDs. Setup the screens EXACTLY as shown (except for the M-Gauge number, which is your chosen M-Gauge position of 1-7).



Choose the M-Gauge slot (1-7) you wish to occupy with the PID parameters.

Slot 5 is used for this example.

Pedal Position %



Lockup Status



<u>STEP 5</u>

Now add the new M-Gauges to the page display.



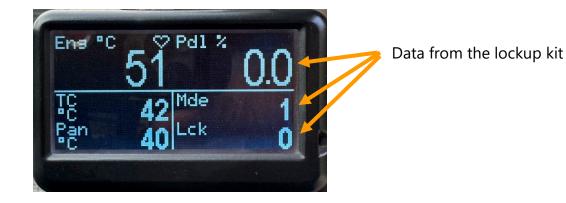


Choose the page onto which the parameters will be displayed.



Using NEXT, scroll to the M-Gauge screen, and choose the page locations to display the parameters; positions 2, 4 and 6 in this example.

Example Display:

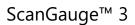


Programming ScanGauge[™] 2 & 3





ScanGauge[™] 2



The ScanGauge[™] features the X-Gauge[™] programmable gauge system that gives the ability to customise your ScanGauge by adding additional vehicle specific digital gauges.

To monitor the MM4X4 lockup kit parameters you need to program the ScanGauge to read the data from the lockup kit using the X-Gauge feature.

The following steps will setup the X-gauge to display your chosen parameters (Mode, Pedal %, or Lockup Status).

If you want to monitor all the kits' parameters, repeat the whole process and create an X-Gauge for each parameter.

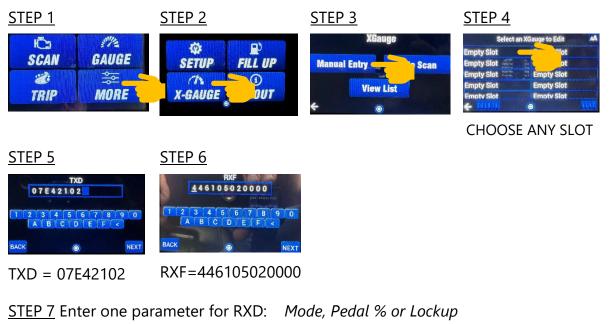
X-Gauge Parameters are:

 TXD 07E42102
 RXF 446105020000
 RXD 4810 Mode of lockup kit, or 3008 Pedal %, or 2808 Lockup Status
 MTH 000100010000
 NAME Mde, or Pdl, or Lkp <- any 3 letters of your choice

These instructions assume you are familiar with the ScanGauge menu system and how to setup a page to display your preferred vehicle parameters onto the gauge screen. If not, please refer to the ScanGauge operating manual for more detail.

Programming PIDs into ScanGauge^{III} (3)

Create three XGauges, one for each lockup kit parameters.



Mode = 4010Pedal Position = 3008 Lockup Status = 2808 RXD RXD RXD 3008 4010 2808 4 5 6 7 8 9 0 C D E F < 5 6 7 8 9 0 5 6 7 8 9 0 Δ В BCDEF ABCDEF A ВАСК NEXT BACK BACK 6

STEP 8 MTH = 000100010000





STEP 9 Create a name for the entered parameter, then SAVE.

Mode			Pee	dal	%							Lo	ck	up	St	tat	us				
	NAME					I	NAME	1	1.2				1			NA	ME				
	Mode						Pedal									Loc	kup				
1234	5 6 7 8	9 0	1	2	3	4	5 6	7	8	9	0	1	2	3	4	5	6	7	8	9	0
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ZXC	V B N M _	<	10.000	Z	XI	C V	B	NII	M	- 1 <		1000	2	X	CL	V	B	NM		<	
Select	an XGauge to Edit	AA																			
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Pedal Empty Slot	Empty Slot		Rep crea					•													
Mode Pedal Empty Slot Empty Slot Empty Slot	Empty Slot Empty Slot							•													

Programming PIDs into ScanGauge^{II}

Enter the MENU by pressing the button with the RED circle:



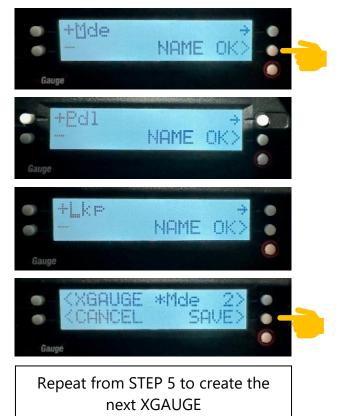
STEP 11 Create a name for the entered parameter

- Mode
- Pedal %

Don't use a name of "Ped" as this is already used.

• Lockup Status

STEP 12 SAVE



Programming the CarScanner App

There are many phone/tablet Apps available that can connect to an OBD2 dongle (such as a bluetooth ELM327 compatible device).

We have instructions for the CarScanner App, but based on the parameters shown you should be able to adjust them to your unquie App.

These instructions assume you are familiar with how to use the App and how to setup a page to display your preferred vehicle parameters onto the screen. If not, please refer to the App manual for more detail.

<u>STEP 1</u>

Launch CarScanner and connect to the car ECU.

<u>STEP 2</u>

Select Settings



<u>STEP 3</u>

Select Sensors

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0101 1001	Coding & Service	>
≡	ECU identifiers	>
	My cars	>
	Adapter OBDII ELM327 Bluetooth LE (4.0): IOS-Vlink	>
-	Connection profile Mitsubishi Pajero IV 3.2 DI-D	>
A z	Interface	>
<u>K</u>	Units	>
	Dashboard	>
A	Vehicle options	>
B	Fuel consumption	>
۹Ť.	Sensors	>
*	Give rating	>
C	Backup	>
>_	Terminal	>
\sim	Contact developer	>
0	Info	>
		1

10:11			II 🗟 (50)
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ID=12200103, Priority:1/1, U Tire Pressure #5 (set ID=12200104, Priority:1/1, U	nits:bar, Role:None 1)			
Tire Pressure #1 set 2 ID=12200105, Priority:1/1, U Tire Pressure #2 set 2	nits:bar, Role:None			
ID=12200106, Priority:1/1, U Tire Pressure #3 set 2 ID=12200107, Priority:1/1, U Tire Pressure #4 set 2	nits:bar, Role:None			
ID=12200108, Priority:1/1, U Tire Pressure #5 set 2 ID=12200109, Priority:1/1, U	1			
Tire Temperature #1 ID=12200109, Priority:1/1, Ur Tire Temperature #2				
ID=12200111, Priority:1/1, Ur Tire Temperature #3				
ID=12200112, Priority:1/1, Un Tire Temperature #4 ID=12200113, Priority:1/1, Un				
Tire Temperature #5 ID=12200114, Priority:1/1, Un				
New PID ID=1008, Header:, PID: , Uni	its:None			
Priority:1/1				
Import from file	9	Ex	port	

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There are two ways to enter the PIDs:

OPTION 1 - By importing a file provided by MM4X4, or OPTION 2 - Manual entry

OPTION 1 - Import PIDs

We have a file available at the MM4X4 website to download which contains the PIDs.

STEP 4

Go to MM4X4.com.au

Navigate to <u>Support->Helpful Documents and Links</u>

Download the file **MM4X4 CarScanner PIDs.csp** from the website and store on your phone at a location of your choice.

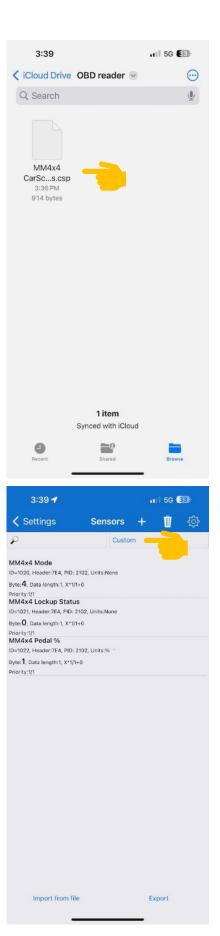
<u>STEP 5</u>

Import the file

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Current time ID=800, Priority:1/1, Units:, OBD Module Voltage ID=0, Priority:1/1, Units:, OBD Module Voltage ID=0, Priority:1/1, Units:, Ro Fuel System Status ID=3, Priority:1/1, Units:, Ro Calculated engine loa ID=4, Priority:1/1, Units:4, Engine coolant tempe ID=5, Priority:1/1, Units:4, Long term fuel % trin ID=6, Priority:1/1, Units:4, Long term fuel % trin ID=6, Priority:1/1, Units:4, Long term fuel % trin ID=7, Priority:1/1, Units:4, Long term fuel % trin ID=9, Priority:1/1, Units:4, Long term fuel % trin ID=9, Priority:1/1, Units:4, ID=0, Priority:1/1, Units:4, ID=0, Priority:1/1, Units:4, ID=1, Priority:1/1, Units:5, ID=10, Priority:1/1, Units:5, ID=11, Priority:1/1, Units:5, ID=13, Priority:1/1, Units:5, ID=14, Priority:1/1, Uni	Role:None DTCs cleared. le:None DTCs cleared. le:None di value aloe:LOAD_PCT erature Role:Coclant m - Bank 1 aloe:None 1 - Bank 2 aloe:None i, Role:None ite pressure Role:None ite pressure Role:MAP m, Role:Speed			
Intake air temperatur ID=15, Priority:1/1, Units:°C.	e			
MAF air flow rate				
ID=16, Priority:1/1, Units:g/s Throttle position				
ID=17, Priority:1/1, Units:%, Commanded seconda	ary air status			
ID=18, Priority:1/1, Units:, R	ale:None			
Import from fil	e	Ð	(port	

<u>STEP 6</u>

Select the file from the saved location.



<u>STEP 7</u>

Select Custom filter to easily display the loaded PIDs.

FINISH

Select the PIDs to display in the Gauge DashBoard. See the CarScanner App manual for instructions on customising the dashboards.

OPTION 2 - Manually create the PIDs

Perform Steps 1, 2 and 3 above, then;

Settings

ID=12200070, Priority:1/1, Units.*C, Role:None Evaporator Target Temp ID=1220071, Priority:1/1, Units. Role:None Regulator Pressure Sensor (MPaG) ID=1220017, Priority:1/1, Units.har, Role:None Tire Pressure #1 (set 1) ID=1220010, Priority:1/1, Units.har, Role:None Tire Pressure #2 (set 1) ID=1220010, Priority:1/1, Units.har, Role:None Tire Pressure #3 (set 1) ID=1220010, Priority:1/1, Units.har, Role:None Tire Pressure #3 (set 1)

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STEP 4

Select ADD PID (+)

ST	ΈP	5
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Select New PID entry that was created at the bottom of the list

Tire Pressure #5 (set 1) ID=12200104, Priority:1/1, Units:1	bar, Role:None		
	bar, Role:None		
Tire Pressure #1 set 2 ID=12200105, Priority:1/1, Units:1	bar, Role:None		
Tire Pressure #2 set 2 ID=12200106, Priority:1/1, Units:1	bar, Role:None		
Tire Pressure #3 set 2 ID=12200107, Priority:1/1, Units:t			
Tire Pressure #4 set 2			
ID=12200108, Priority:1/1, Units: Tire Pressure #5 set 2			
ID=12200109, Priority:1/1, Units: Tire Temperature #1	bar, Role:None		
ID=12200110, Priority:1/1, Units:" Tire Temperature #2	C, Role:None		
ID=12200111, Priority:1/1, Units:* Tire Temperature #3	C, Role:None		
ID=12200112, Priority:1/1, Units: Tire Temperature #4	C, Role:None		
ID=12200113, Priority:1/1, Units: Tire Temperature #5	°C, Role:None		
ID=12200114, Priority:1/1, Units:*	C, Role:None		
New PID ID=1008, Header:, PID: , Units:N	one		
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Import from file		Export	
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Settings	Sensors	+ 🍿	<i>2</i> 63
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Tire Pressure #2 (set 1) ID=12200101, Priority:/1/, Unitast Tire Pressure #3 (set 1) ID=12200102, Priority:/1/, Unitast Tire Pressure #3 (set 1) ID=12200103, Priority:/1/, Unitast Tire Pressure #1 set 2 ID=12200103, Priority:/1/, Unitast Tire Pressure #2 set 2 ID=12200108, Priority:/1/, Unitast Tire Pressure #3 set 2 ID=12200108, Priority:/1/, Unitast Tire Pressure #5 set 2 ID=12200108, Priority:/1/, Unitast Tire Pressure #5 set 2 ID=12200108, Priority:/1/, Unitast Tire Temperature #3 ID=12200109, Priority:/1/, Unitast Tire Temperature #3 ID=12200111, Priority:/1/, Unitast Tire Temperature #3 ID=12200112, Priority:/1/, Unitast Tire Temperature #4 ID=12200113, Priority:/1/, Unitast Tire Temperature #4 ID=12200113, Priority:/1/, Unitast Tire Temperature #4 ID=12200113, Priority:/1/, Unitast	bar, Role:None bar, Role:None bar, Role:None bar, Role:None bar, Role:None bar, Role:None bar, Role:None bar, Role:None c, Role:None C, Role:None C, Role:None C, Role:None C, Role:None C, Role:None C, Role:None		
Tire Pressure #2 (set 1) ID=12200101, Priority:/1, Unitast Tire Pressure #3 (set 1) ID=12200102, Priority:/1, Unitast Tire Pressure #4 (set 1) ID=12200103, Priority:/1, Unitast Tire Pressure #1 set 2 ID=12200106, Priority:/1, Unitast Tire Pressure #3 set 2 ID=12200106, Priority:/1, Unitast Tire Pressure #3 set 2 ID=12200108, Priority:/1, Unitast Tire Pressure #4 set 2 ID=12200108, Priority:/1, Unitast Tire Pressure #4 set 2 ID=12200108, Priority:/1, Unitast Tire Pressure #5 set 2 ID=12200109, Priority:/1, Unitast Tire Temperature #1 ID=12200109, Priority:/1, Unitast Tire Temperature #3 ID=1220011, Priority:/1, Unitast Tire Temperature #3 ID=12200112, Priority:/1, Unitast Tire Temperature #3 ID=12200113, Priority:/1, Unitast Tire Temperature #4 ID=12200113, Priority:/1, Unitast	bar, Role:None bar, Role:None bar, Role:None bar, Role:None bar, Role:None bar, Role:None bar, Role:None bar, Role:None c, Role:None C, Role:None C, Role:None C, Role:None C, Role:None C, Role:None C, Role:None		
Tire Pressure #2 (set 1) ID=1220010, Priority:1/1, Unitas: Tire Pressure #3 (set 1) ID=12200102, Priority:1/1, Unitas: Tire Pressure #4 (set 1) ID=12200103, Priority:1/1, Unitasi Tire Pressure #1 set 2 ID=12200105, Priority:1/1, Unitasi Tire Pressure #2 set 2 ID=12200106, Priority:1/1, Unitasi Tire Pressure #3 set 2 ID=12200108, Priority:1/1, Unitasi Tire Pressure #4 set 2 ID=12200108, Priority:1/1, Unitasi Tire Pressure #5 set 2 ID=12200109, Priority:1/1, Unitasi Tire Temperature #1 ID=12200119, Priority:1/1, Unitasi Tire Temperature #3 ID=12200119, Priority:1/1, Unitasi Tire Temperature #3 ID=12200119, Priority:1/1, Unitasi Tire Temperature #3 ID=12200119, Priority:1/1, Unitasi Tire Temperature #4 ID=12200119, Priority:1/1, Unitasi	bar, Role:None bar, Role:None bar, Role:None bar, Role:None bar, Role:None bar, Role:None bar, Role:None bar, Role:None c, Role:None C, Role:None C, Role:None C, Role:None C, Role:None C, Role:None C, Role:None		
Tire Pressure #2 (set 1) ID=12200101, Priority:/1, Unitast Tire Pressure #3 (set 1) ID=12200102, Priority:/1, Unitast Tire Pressure #4 (set 1) ID=12200103, Priority:/1, Unitast Tire Pressure #1 set 2 ID=12200106, Priority:/1, Unitast Tire Pressure #3 set 2 ID=12200106, Priority:/1, Unitast Tire Pressure #3 set 2 ID=12200108, Priority:/1, Unitast Tire Pressure #4 set 2 ID=12200108, Priority:/1, Unitast Tire Pressure #4 set 2 ID=12200108, Priority:/1, Unitast Tire Pressure #5 set 2 ID=12200109, Priority:/1, Unitast Tire Temperature #1 ID=12200109, Priority:/1, Unitast Tire Temperature #3 ID=1220011, Priority:/1, Unitast Tire Temperature #3 ID=12200112, Priority:/1, Unitast Tire Temperature #3 ID=12200113, Priority:/1, Unitast Tire Temperature #4 ID=12200113, Priority:/1, Unitast	bar, Role:None bar, Role:None bar, Role:None bar, Role:None bar, Role:None bar, Role:None bar, Role:None bar, Role:None c, Role:None C, Role:None C, Role:None C, Role:None C, Role:None C, Role:None C, Role:None	Export	

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Sensors

All

<u>STEP 6</u>

Create a PID for a chosen parameter as follows:

• Mode

10:4	1 4G 4 5
Senso	rs Custom PID editor
Name:	
MM4x4 M	ode
Short name:	
Mode	
Command:	
2102	
Header (leav	e blank for default):
7E4	
Decode sche	
O Formula	
O Byte set	
O Bit:	
O Action P	ID
	.0 Group Item
Byte:	4
Data length:	1
Reversed byt	e order
Signed value	
Multiplier:	1
Divider:	1
Offset:	0
Minimum	
0	
Maximum	
100	
Units:	
None	
Priority:	
1/1	
Role override	c
None	
Start diagnos	stics commands (separated by "\"):
Stop diagnos	tics commands (separated by "\"):
	Units override
	Test

• Pedal %

10:4	42		11 4G 45
< Senso	rs Cu	istom PID editor	
Name:			
MM4x4 P	edal %		
Short name:			
Pedal			
Command:			
2102			
Header (leav	e blank for	default):	
7E4			
Decode sche			
O Formula			
O Byte set			
O Bit:			
O Action F			
O VW TP2	.0 Group It	em	
Byte:	1		
Data length:	1		
Reversed by	e order		
Signed value			Ŏ
Multiplier:	1		
Divider:	1		
Offset:	0		
Minimum			
0			
Maximum			
100			
Units:			
%			
Priority:			
1/1			
Role override	1		
None			
Start diagnos	tics comm	hands (separated by "	("):
Stop diagnos	tics comm	ands (separated by ")	(*):
		Units override	
		Test	

• Lockup Status

10:4	42		11 4G 45
Senso	rs	Custom PID editor	
Name:			
MM4x4 Lo	ockup	Status	
Short name:			
TC lockup	,		
Command:			
2102			
Header (leav	e blank	for default):	
7E4			
Decode sche			
O Formula			
O Byte set	:		
O Bit:			
O Action F	ND		
O VW TP2	.0 Grou	p Item	
Byte:	0		
Data length:	1		
Reversed by	te order		
Signed value	(ŏ
Multiplier:	1		
Divider:	1		
Offset:	0		
Minimum			
0			
Maximum			
100			
Units:			
None			
Priority:			
1/1			
Role override	9:		
None			
Start diagnos	stics cor	mmands (separated by "	\"):
Stop diagood	tice cor	mmands (separated by "	(*).
orop ulagrios	ALCS COI	innunus (separated by	1.1.
		Units override	
		Test	

Repeat the process fom STEP 4 to create each MM4X4 PID.

<u>FINISH</u>

Select the PIDs to display in the gauge DashBoard. See the CarScanner App manual for instructions on customising the dashboards.

END.