<b>Technical Service Bulletin</b>	GROUP	NUMBER		
CSO HY	<b>UNDRI</b>   NEW THINKING. NEW POSSIBILITIES.	CAMPAIGN	16-01-027-1	
Technical Service Bulletin		DATE	MODEL(S)	
Tecim		JUNE 2016	ALL 2016 MODELS	
SUBJECT:CALIFORNIA DEALERS ONLY - CARB IN-USE MONITOR PERFORMANCE REPORTING DATA COLLECTION (DC1)				

## This bulletin's service procedure and vehicle data sheet has been revised.

	* IMPORTANT	*** Potoil Vobiolog ***
		Retail vehicles
(	California Dealers on	Ily must perform this data collection on vehicles whenever an affected vehicle
i	s in the shop for any r	naintenance or repair if the vehicle meets the below specified criteria.
۱	When a vehicle arrives	s at the Service Department, access Hyundai Motor America's "Warranty
١	/ehicle Information" so	creen via WEBDCS to identify open Campaigns
		sicon via WEBBCC to lacitary opon campaigne.
	DC1 claim payment r	requires the completed Vehicle Test Sheet and GDS "In-Use
	Performance Trackin	a" data be faxed or emailed directly to Hyundai as per the instructions
		g data be laked of entailed directly to flydridal as per the instructions
	Ji paye z. Each deal	ersnip should clearly determine the most practical and reliable method
1	o ensure this, wheth	ier it be the Technician sending the documents or Warranty Clerk at time

**Description:** This bulletin provides information and procedures for collecting OBD **In-Use Monitor Performance Tracking data** on certain 2016MY vehicles at California dealers. This reporting is mandated by CARB (California Air Resources Board).

## Affected vehicles must meet ALL of the following criteria to be eligible for DC1:

of claim submission from documents Technician had attached to the R.O.

- WebDCS shows this as an open Data Collection code DC1 for the vehicle.
- Vehicle has over 3000 miles on its odometer.
- Vehicle has not had an ECM Update on this service visit.
- Vehicle has not had its battery replaced/disconnected on this service visit.
- Vehicle does not have a check engine light on.

**NOTE:** You should perform this campaign prior to implementing other open campaigns.

## Applicable Vehicles:

- 2016MY vehicles with an open DC1 data collection Campaign.

## Warranty Information:

Model Year Op Code		Operation	Op Time
2016	CCARB016	IUMPR Data Collection	0.3

NOTE: Submit Claim on Campaign Claim Entry Screen.

Circulate To: Service Manager, Warranty Manager, Service Advisors, Technicians, Fleet Repair

## **Overview of the Service Procedure:**

#### A. Basic Overview of the Procedure:

- 1. Fill out the **Vehicle Test Sheet** located on the next page of this bulletin with the vehicle information including Calibration ID read by GDS.
- 2. Use GDS to read and screen print the **In-Use Performance Tracking** data to attach as the second page to the Vehicle Test Sheet.
- 3. Send items 1-2 along with a copy of the front page of the repair order (3 pages total) by either of these methods:
  - Fax: 909-753-0373
  - Email: iummail@hatci.com (send as PDF/JPG/PNG scan file)
- 4. Attach Items 1-2 to the Repair Order as your claims record the data was collected.

	* NOTE		
Y	u must send fa	x or email to receive claim payment.	Hyundai must submit the data to
C	ARB, so any da	ta not received will not be paid.	

# B. Vehicle Test Sheet and GDS In-Use Performance Tracking data to be completed for each vehicle:

The next 3 pages consists of the following:

- Blank Vehicle Test Sheet to be completed for each qualifying vehicle.
- Examples of:
  - Completed Vehicle Test Sheet.
  - **GDS Screen Printout** of the **In-Use Performance Tracking** data to be attached, (instructions are included in the rest of this service procedure).

# \* NOTE

- Complete this blank sheet for each vehicle and submit it by fax or email along with:
  - o In-Use Performance Tracking data. (Do not collect the Readiness Monitor Data).

**Vehicle Test Sheet** 

- Copy of front page of the Repair Order.
- Attach this completed sheet and **In-Use Performance Tracking** data to the RO claim.

# OBD II In-Use Monitoring Performance Reporting

	1) Write down vehicle MY/Model/Engine, Test Date, Mileage, and Test Group.				
	<ul> <li>Test group name will be shown on the emission label under hood.</li> </ul>				
	2) Read the Calibration ID by GDS:				
	- Key On and Connect GDS				
	- Go to the "ID Register" under Vehicle S/W Management on the Main Page.				
	- Select "Engine" and click "OK".				
Test	- Click "System Identification" and write down "Calibration ID" the Test Sheet.				
Procedure	3) Read the IUMPR data by GDS:				
Test Procedure- Key On and Connect GDS - Go to the "ID Register" under Vehicle S/W Management on the Main Page. - Select "Engine" and click "OK". - Click "System Identification" and write down "Calibration ID" the Test Sheet.3) Read the IUMPR data by GDS: - Return to main page and Click "CARB OBD II". - Click "In Use Performance Tracking". Maximize the data to appear full screen like below ex - Print Screen and attach as next page of this test sheet.4) ) Send following 3 pages to FAX No 909-753-0373					
	- Click "In Use Performance Tracking". Maximize the data to appear full screen like below ex.				
	- Print Screen and attach as next page of this test sheet.				
	4) ) Send following 3 pages to FAX No 909-753-0373 or PDF/JPG/PNG scan file to Email: - This completed Vehicle Test Sheet. - GDS printout of the "In Use Performance Tracking" data screen.				
	<ul> <li>Main page (1-page only) of the Repair Order which contains VIN, miles, etc.</li> </ul>				

	١	/ehicle Information		In-Use Performan	ce Tracking	Data	
1	Vehicle MY/Model/Eng		ATTACH AS PERFORMA		PRINT SCREE CREEN PER E	N OF THE XAMPLE E	"IN USE 3ELOW: ■▼
2	Test Date - RO#		Diagnosita Basic Inspection	Preparation         Diagnosis           HD/2010/G 2 0 DOHC         Svi Th-USE: Performance: Tracking           Selective Display :         Full List :	Vehicle S/W Management	Repair	
3	VIN		DTC Analysis Data Analysis Flight Record CARB OBD-II	Renert Name     OED Monitering Conditions Encountered Counts     Igrition Counter     Catalyst Minitor Completion Counts-Eack1     Catalyst Minitor Conditions Encountered Courts-Ban     Catalyst Minitor Conditions Encountered Courts-Ban     Catalyst Minitor Conditions Encountered Courts-Ban     Catalyst Minitor Conditions	Madule ID         EB         EB	Value Unit 60 Count 168 Count 83 Count 60 Count 0 Count 0 Count	
4	Mileage	(Note: must be above 3000 miles)	Current Data Current Data Fresze Frane Data Disanostic Trouble Code Monitoring Test Results Frest Or Component Com Weikcle Information	Organic Several Monter Consistence Source Back 1     Organic Several Monter Consistence Source 1 Consistence     Organic Several Monter Constantial Source 1 Constantial     Organic Several Monter Constantial Erconstance Constantial     EGR and/or VVT Monter Completion Condition Constantial     EGR and/or VVT Monter Completion Condition Constantial     Ar Monter Completion Condition Courts     Bridt Mundar Constantial     Excert Several Constantial		83 Count 60 Count 0 Count 10 Count 102 Count 60 Count 0 Count 0 Count	
5	Test group			EVAP Montor Conditions Encountered Course     EvaP Montor Conditions Encountered Course     Secondary Divgen Senser Montor Completion Count     Secondary Divgen Senser Montor Completion Count     Secondary Divgen Sensor Montor Completion Count     Secondary Divgen Sensor Montor Conditions Encourt	EB 5 Bank 1 EB ntered C. EB 5 Bank 2 EB ntered C. EB	18 Count 5 Count 60 Count 0 Count 0 Count	
6	Calibration ID		Status Case Analysis	OTC CurrentData Actuation Fagtr Record DUVON	I Oscifescope Smutation Intern Test Upda	set ECU Up rade Fault Co Searchi	ide
7. o	7. Technician Name:		NOTE: 0	Correct IUMPR not the readine	data shou ss monito	uld inclu rs statu	ıde s.
0,		77	Vehicles w	ith all zeroes d	lo not qua	lify.	

Example of a completed Vehicle Test Sheet with printout of the GDS **In-Use Performance Tracking** data attached as page #2:

#### Example of Page 1 be sent by fax or email:



Example of Page 2 to be sent by fax or email:

	🕒 VCI : WLAN On 🔍 VM	II : Off 🛛 🔍 Internet : Off		- ×
GD	Preparation Diagnosis	Vehicle S/W Manageme	ent Repair	0
Vehicle SANTAFE(N	NC)/2013/G 3.3 GDI	System 🕨 Engine/Engine C	Control	0 🔡
Diagnosis	In-USE Performance Tracking			
Basic Inspection	Selective Display 🗧 🛛 Full List 🗘			
DTC Analysis	Sensor Name	Module ID	Value	Unit
Data Analysis	OBD Monitoring Conditions Encountered Counts     Ignition Counter	EB EB	17 50	Count Count
Vici WLAN On       VMI : Off       Internet : Off         Preparation       Diagnosis       Vehicle SW Management       Repair         Vehicle       SANTAFE(INC)/2013/G 3 3 GDI       System       Engine/Engine Control         Diagnosis       In-USE Performance Tracking       Selective Display :       Full List :         Sensor Name       Module ID       Value       Unternet :       Off         DTC Analysis       Selective Display :       Full List :       Sensor Name       Module ID       Value       Unt         Sensor Name       Completion Counts-Bank1       E8       17       Count         Ignition Counter       E8       17       Count       Count       Count       Count       Count       Catalyst Monitor Completion Counts-Bank1       E8       17       Count         Carabyst Monitor Completion Counts-Bank2       E8       17       Count       Count       Count       Count       Count       Catalyst Monitor Completion Counts-Bank2       E8       13       Count         Oxgen Sensor Mc       Orophilos Encountered Counts       B8       17       Count         Oxygen Sensor Mc       Orophilos Encountered Counts       E8       13       Count         Oxygen Sensor Mc       Orophilos Encountered Counts       <			Count Count	
CARB OBD-II	Catalyst Monitor Completion Counts-Bank2	s-Bank2 E8	12	Count Count
<ul> <li>Readiness Test</li> <li>Current Data</li> <li>Franza Frama Data</li> </ul>	Oxygen Sensor More on price on V unts B     Oxygen Sensor More or Condition v accounter &     Oxygen Sensor More or Completi Sounts on	ount i 1k7	13	Count Count
Diagnostic Trouble Code Monitoring Test Results	Oxygen Sensor Money Conditions Enjoy area     EGR and/or VVT Monitor Completion Condition (	Counts E8	17	Count Count
Claignostic Trouble Code     EGR and/or VVT Monitor Completion Condition Counts     EB     EGR and/or VVT Monitor Conditions Encountered Counts     EB     Test or Component Cont     Air Monitor Completion Condition Counts     EB     Vehicle Information     Air Monitor Completion Counts     EB				Count
Vehicle Information	Air Monitor Conditions Encountered Counts     EVAP Monitor Completion Condition Counts	E8 E8	0	Count
■ spark ignition	EVAP Monitor Conditions Encountered Counts	E8	9	Count
compression ignition	Secondary Oxygen Sensor Monitor Completion Secondary Oxygen Sensor Monitor Conditions E	Counts Bank1 E8 Encountered C E8	18	Count
Voll • VML • Off       Internet : Off         Preparation       Diagnosis       Vehicle SW Management       Repair         Vehicle       SANTAFE(NC)/2013/G 3.3 GDI       System       Engine/Engine Control         Diagnosis       In-USE Performance Tracking       Image: Control       Image: Control         Basic Inspection       Selective Display ©       Full List       Control       Image: Control       Image: Control         DTC Analysis       Data Analysis       Ensor Name       Module ID       Value       Unit         Gata Analysis       OBD Monitoring Conditions Encountered Counts       E8       17       Count         Gata Analysis       OBD Monitoring Conditions Encountered Counts-Bank1       E8       17       Count         Catalyst Monitor Completion Counts-Bank1       E8       17       Count       Count         Catalyst Monitor Completion Counts-Bank2       E8       17       Count         Count       Control to arconnet of Counts Bank2       E8       17       Count         Orygen Sensor Money Conditions Encountreed Counts Bank2       E8       17       Count         Orygen Sensor Money Conditions Encountreed Counts Bank2       E8       17       Count         Orygen Sensor Money Conditions Encountreed Counts Bank2       E8	Count Count			
Setup Case Analysis	TC Current Data Actuation Test Flight Record	DVOM Oscilloscope Simulation Test	Internet Update ECU Up	grade Fault Code Searching

## CARB IUMPR DATA COLLECTION (DC1)

## **Detailed Service Procedure:**

- 1. Document the following information on the Vehicle Test Sheet (See page 4 of this bulletin):
  - Model Year/ Vehicle Name/ Engine size
  - Test Date (date you collected this data)
  - RO Number (dealer repair order)
  - VIN
  - Mileage
- 2. Open the engine compartment and locate the **Underhood Emission Label**. Write down the **Group** number for later entry into the form.

B	HYUNDAI MOTOR COMPANY VEHICLE EMISSION CONTROL INFORMATION					
Conforms	to regulations:	10	2013	MY		
U.S.EPA: 1	2B5 LDV	O	OBD: CA II Fuel: Gasoline		ne	
California: ULEV II PC		O	OBD: CA II Fuel: Gasoline			
Group: DHYXV03.31VE			2H0	02S(2)/2WU-T	WC/TWC	
Evap.: DHYXR0135PDE [WARNING]		No adjustments needed.			100	
			32450-3CAB5		- LU2	
Loaded I/M testing of permanent four-wheel drive or traction control-equipped, vehicles must be conducted on a four-wheel drive speed synchronized dynamometer. Otherwise, a non-loaded test procedure must be performed.						

# **\*** NOTE

Make sure that you have conducted the latest internet update of your GDS software to be able to read **In-Use Performance Tracking** data correctly.

 Connect the GDS to the vehicle with the ignition ON (engine does not need to be running) and select ID Register under Vehicle S/W Management tab:



5.

## CARB IUMPR DATA COLLECTION (DC1)

4. Select **Engine** and **OK**.



6. Locate the **Calibration ID** and enter on the **Vehicle Test Sheet**.

Select System Identification.



For some models it may not display exactly as shown above. It may for example state **Sub Calibration Number** rather than **Calibration ID**.



## CARB IUMPR DATA COLLECTION (DC1)

 Go back to the main page of the GDS by clicking the GDS logo at the top left of the screen. Select CARB OBD-II under the Diagnosis tab.



8. Select **In-Use Performance Tracking**. In the sub-menu select **Spark Ignition** for gasoline engines.

**Maximize** the data display on the screen as shown to verify all data is displayed.



# **\*** NOTE

**If all values indicate "Not Supported" or "0"** the vehicle does not qualify for data collection. It may have had a recent ECM update or battery replacement/disconnection.

## CARB IUMPR DATA COLLECTION (DC1)

 Print the GDS screen by selecting the Camera lcon in the upper right corner of the screen.

# \* NOTE

Make sure you capture the entire screen. If only part of the list is displayed, first click the "Expand" button.



10. Select Entire GDS Area and click Send to Print.



- 11. Send the following 3 pages to fax number 909-753-0373 or PDF/JPG/PNG scan the file and email to iummail@hatci.com
  - 1. Completed Vehicle Test Sheet.
  - 2. GDS Screen Printout of the In-Use Performance Tracking data.
  - 3. Single page copy of the front page of the **Dealer Repair Order** which displays the VIN, miles, RO#, etc.
- 12. Attach items 1 and 2 listed above to the Repair Order for your claims record. You may need to provide it as evidence later in event of charge back by Hyundai due to data not received.

#### GDS Mobile Instructions:

\* NOTICE

**Refer to** <u>www.hyundaitechinfo.com</u> for printing instructions under: "GDS Mobile Info" / "GDS Mobile Tips".

Printout of the **OBD-II In Use Performance Tracking** screen as shown below may be used as page-2 of the 3 total pages to be sent (along with the Vehicle Test Sheet and RO front page copy) by fax or PDF/JPG/PNG scanned file to the email provided.

R @ Vehicle Select	¥ الجا:ﷺ \$ 63% ∎ 9:19 AM ion vci الحالي الج	□ □ @ HOME Online Vehicle Sele	* )왕종 후 62%) ction VCI 유	9:20 AM
OBD-II Readine	ess Test	OBD-II In Use Perfor	mance Tracking	
←	>	Selective Display	Graph	>
E Readiness Test	Sensor Name(77)	Sensor Name(20)	Module Value	Unit
Current Data	Number of DTC	OBD Monitoring Conditions Encountered Counts	E8 485	Count
Freeze Frame Data	Malfunction Indicator Lamp(MIL)	Ignition Counter	E8 1255	Count
Diagnostic Trouble Code	Misfire Monitoring	Catalyst Monitor Completion Counts-Bank1	E8 680	Count
Monitoring Test Results	Fuel System Monitoring	Catalyst Monitor Conditions Encountered Counts- Bank1	E8 485	Count
Test or Component Control	Comprehensive Component Monitorin	Catalyst Monitor Completion Counts-Bank2	E8 0	Count
Vehicle Information	Catalyst Monitoring	Catalyst Monitor Conditions Encountered Counts- Bank2	E8 0	Count
A In Use Performance Ratio	Heated Catalyst Monitoring	Oxygen Sensor Monitor Completion Counts Bank1	E8 700	Count
	EVAP System Monitoring	Oxygen Sensor Monitor Conditions Encountered Counts Bank1	E8 485	Count
	Secondary Air System Monitoring	Oxygen Sensor Monitor Completion Counts Bank2	E8 0	Count
	Oxygen Sensor Monitoring	Oxygen Sensor Monitor Conditions Encountered Counts Bank2	E8 0	Count
	Oxygen Sensor Heater Monitoring	EGR and/or VVT Monitor Completion Condition Counts	E8 737	Count
	EGB and/or VVT System Monitoring	EGR and/or VVT Monitor Conditions Encountered Counts	E8 485	Count
	Number of DTC	Air Monitor Completion Condition Counts	E8 0	Count
		Air Monitor Conditions Encountered Counts	E8 0	Count
	Malfunction Indicator Lamp(MIL)	EVAP Monitor Completion Condition Counts	E8 33	Count
	Misfire Monitoring	EVAP Monitor Conditions Encountered Counts	E8 101	Count
	Fuel System Monitoring	Secondary Oxygen Sensor Monitor Completion Counts Bank1	E8 637	Count
	Comprehensive Component Monitorin	Secondary Oxygen Sensor Monitor Conditions Encountered Counts Bank1	E8 485	Count
	Catalyst Monitoring	Secondary Oxygen Sensor Monitor Completion Counts Bank2	E8 0	Count
	Heated Catalyst Monitoring	Secondary Oxygen Sensor Monitor Conditions Encountered Counts Bank2	E8 0	Count