



NUMBER: 290120001.01

MODEL: Karma

DATE: January 17, 2012

MODEL YEAR: 2012

TITLE: Tire Pressure Monitor Sensor Learn Procedure

PRIORITY:

Vehicles in Operation

APPLICABILITY:

2012 Karma

MARKET REGION:

U.S., Canada, Europe

PURPOSE:

The tire pressure monitor system uses the Fisker Workshop Tester, Vehicle Control Module (VCM), and four tire pressure monitor sensors (TPMS) to perform the TPMS Learn function.

The TPMS Learn procedure must be performed after every tire rotation, VCM replacement, or sensor replacement. The VCM must learn the sensor IDs in the proper sequence to determine correct sensor location. The first learned ID is assigned to the left front location, the second to right front, the third to right rear and the fourth to left rear. This service bulletin will detail the process of performing the self learn process for the vehicle's tire pressure monitoring system.

PROCESS OVERVIEW:

1. TPMS Learn Preconditions
2. TPMS Learn Procedure

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TPMS Learn Preconditions

Prior to initializing the TPMS Learn procedure; the following preconditions must be met:

- 1a. The vehicle's software baseline has been updated to at least Baseline 612.
- 1b. The Fisker Workshop Tester has been updated to the latest version (RP 3.7).
- 1c. Ensure that any other Karma vehicle is not within 6 feet (2 meters) proximity of the vehicle being forced to learn sensor IDs.

***NOTE:** Stray signals from other TPMS equipped vehicles just driving by can be inadvertently learned. If any random horn chirps are heard from the vehicle while performing the learn procedure, most likely a stray sensor has been learned and the procedure will need to be cancelled and repeated.*

- 1d. Verify that the tire pressures are at their cold tire inflation nominal values. The cold tire inflation pressure specifications are printed on a label located on the driver's side B-pillar.

TIRE AND LOADING INFORMATION
RENSEIGNEMENTS SUR LES PNEUS ET LE CHARGEMENT

SEATING CAPACITY **TOTAL 4** **FRONT 2** **REAR 2**
NOMBRE DE PLACES **AVANT** **ARRIÈRE**

THE COMBINED WEIGHT OF OCCUPANTS AND CARGO SHOULD NEVER EXCEED 300 KG OR 660 LBS.
LE POIDS TOTAL DES OCCUPANTS ET DU CHARGEMENT NE DOIT JAMAIS DÉPASSER 300 KG OU 660 LB.

TIRE PNEU	SIZE DIMENSIONS	COLD TIRE PRESSURE PRESSION DES PNEUS À FROID
FRONT/AVANT	P255 / 35R22	40 PSI / 275 kPa
REAR/ARRIÈRE	P285 / 35R22	36 PSI / 248 kPa
SPARE/DE SECOURS	INFLATOR KIT / TROUSSE DE GONFLAGE	

SEE OWNER'S MANUAL FOR ADDITIONAL INFORMATION
VOIR LE MANUAL DU CONDUCTEUR POUR PLUS DE RENSEIGNEMENTS

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Figure 1.

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TPMS Learn Procedure

2a. Using a lift, elevate the vehicle so that the wheels are off of the ground. Position the wheels so that the valve stems are oriented according to Figure 2 below.

Tire Positioning for TPMS Learning

- Before releasing air from each tire, it's important to ensure that the tire sensor is in its optimal position to be detected by the RSA antenna.
- The "good" position areas for each TPMS/tire valve stem are highlighted in yellow (see images below).
 - 12 to 2 o'clock (RR and LF wheel)
 - 10 to 12 o'clock (LR and RF wheel)
- If a TPMS/valve stem isn't in the "good" region, rotate tire accordingly.
- Once a tire clocking is corrected, proceed with the manual learn sequence.
- Repeat this tire clocking step whenever a tire is seen out of position.

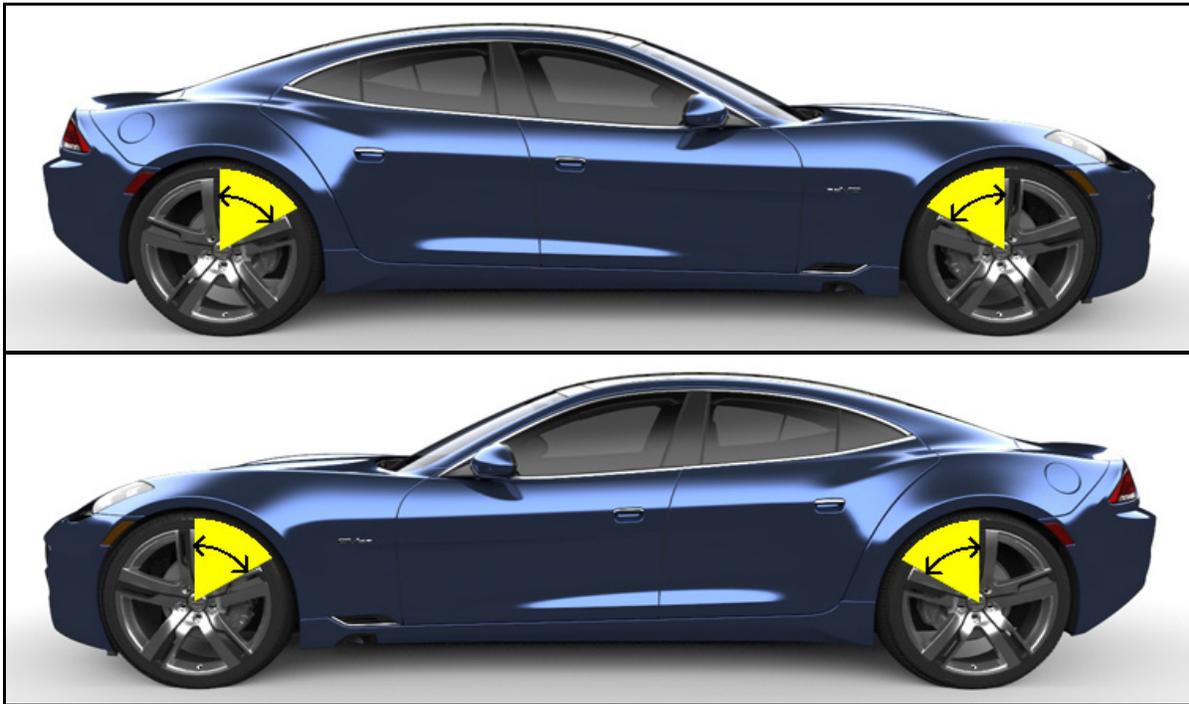


Figure 2.

2b. Set the Park Brake "ON" by using the park brake switch inside the cabin.

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2c. Turn the vehicle on to SYSTEM READY mode; put the vehicle into Drive.

2d. Select the TPMS Learn from the menu in the Fisker Workshop Tester.

- > Module Diagnostics
- > Vehicle Control
- > Vehicle Control Module
- > Basic Diagnosis
- > TPMS Learn

2e. To initiate the process, press the learn button in the bottom right-hand corner of the service tool.

- A single chirp of the horn will indicate successful process start.

2f. Starting with the left front tire and moving around the vehicle in a clockwise direction (LF – RF – RR - LR), release 10psi/0.7bar or greater of air from each tire within 30 seconds to facilitate a *Rapid Pressure Change* signal transmission from the sensor.

- The VCM will detect the signal and will then learn the sensor ID. The vehicle will chirp the horn one time to confirm the sensor has been learned.

- If after 1 minute, no chirp is recognized, release another 10psi/0.7bar or more from the tire within 30 seconds.

NOTE: The learn process, including the horn chirp, may take up to 6 minutes per tire.

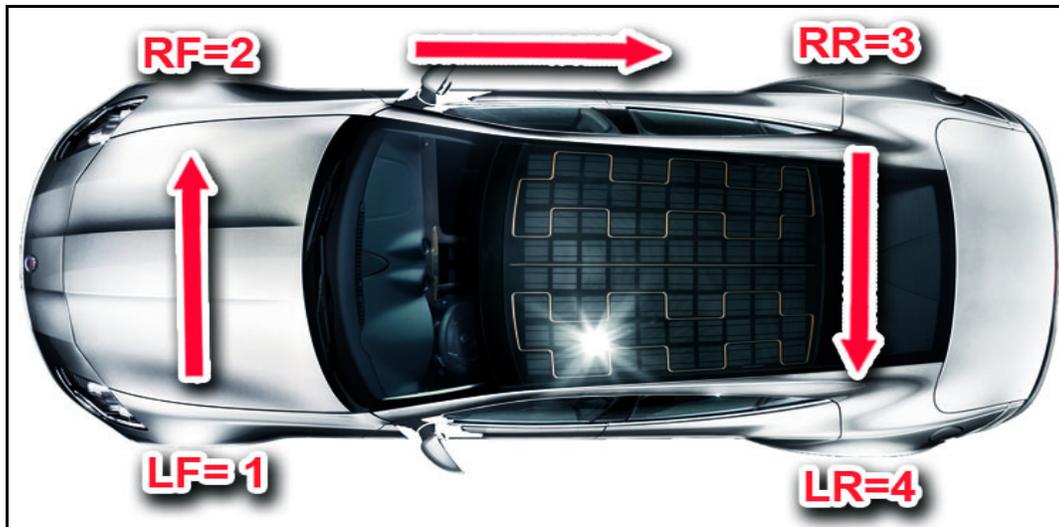


Figure 3.

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2g. After receiving the confirmation single horn chirp, the operator must wait 20 seconds before moving to the next tire in the sequence and will have a time limit of 2 minutes to release air from the next tire in the sequence.

2h. After the last tire (left rear) has completed the learning sequence, the horn will chirp twice indicating successful learning of the ID's are complete.

– Upon completion, re-inflate the tires to their specified cold tire pressure.

IMPORTANT: *If the learn attempt fails, the VCM will exit the learn process and the horn will chirp three times to indicate failure. Before restarting the learn procedure, please do the following;*

- *All tire pressures must be reset to the cold tire inflation pressure specifications.*
- *After the last tire is re-inflated, you must wait 15 minutes before attempting to restart the learn procedure*
- *Press the VCM reset button (bottom right of the screen) on the Workshop Tester and then the exit button (This will put the vehicle into an off awake state with the power mode = off).*
- *Return to step 2d to restart the process.*

2i. Upon successful completion of the process (two horn chirps), press the VCM reset button (bottom right of the screen above exit) to complete the TPMS Learn procedure. This will put the vehicle into an off awake state with the power mode = off.

2j. After the VCM reset is complete, select exit to return to the main screen.

2k. The Tire Pressure Monitor Sensor Learn procedure is now complete and all TPMS IDs should be learned by the vehicle.

NOTE: *To ensure that a vehicle has been repaired, it is required to test drive the vehicle a minimum of 15 minutes above 25 MPH to ensure the TPMS light does not return.*



SERVICE BULLETIN

FISKER AUTOMOTIVE, INC.

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PARTS REQUIRED:

PART NUMBER	DESCRIPTION
N/A	

SHOP SUPPLIES:

DESCRIPTION
N/A

SPECIAL TOOLS:

DESCRIPTION
Fisker Workshop Tester

LABOR CODES:

CODE	DESCRIPTION	TIME	DEFECT CODE
54-30-01-06	Bulletin 290120001 / Repair	0.8	54-30-01-98

SUBLET:

CODE	DESCRIPTION	AMOUNT
N/A		

CAUSAL PART:

PART NUMBER	DESCRIPTION
C131124501000	Tire Pressure Monitor System – Sensor

WARRANTY DISPOSITION:

Vehicles with a valid warranty

CONTACT:

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