# Lab 12 – TPMS Reset and Diagnosis

## Refer to Blackboard Assignments - Unit 8

## Objective

Upon completion of this report and the associated lab, you will have demonstrated the ability to service and diagnose a TPMS system.

## Procedure

1. The provided vehicle has a complaint of a warning light on the dash. Confirm the complaint and follow the related diagnostic procedure(s). Discuss findings with your professor and proceed with the specified repair procedure as directed.

3. To demonstrate your understanding of the TPMS diagnostic process, complete and submit this report with:

(1) A description of the system.

First check tire presure

San vin number for vehicle info

Inflate all tires

Turn ignition off

Press and release brake peda

Cycle ignition from “off” to “run” three times ending in “run”

Press and release brake pedal

Turn ignition off

Cycle ignition from “off” to “run” three times ending in “run”

Horn sounds twice

Use tool to activate left front sensor

Single horn will sound

Repeat for right front sensor, right rear sensor, left rear sensor

(2) The tools required.

- tpms reset machine

- core remover

-valve

(3) A description of the diagnostic and repair procedures.

- tpms has two moethod

1) direct

2) indirect

- Direct systems include Asian, domestic and European vehicle

- An indirect TPMS system uses an ABS system to monitor the speed of the wheel in order to approximate tire pressure. Indirect systems include Asian and some European vehicles .

An OBDII relearn procedure requires a TPMS diagnostic tool to transfer new sensor IDs directly to the vehicle’s ECU. The user will need to trigger each TPMS sensor, connect to the vehicle’s OBD port, then follow the step-by-step instructions on the tool. The new TPMS sensor IDs are then transferred to the vehicle. Most Asian and specialty European vehicles require OBD relearn.

- Inflate all tires

Read all sensor IDs using TPMS diagnostic tool , Connect tool to OBDII port , Reset ECU with tool

Turn ignition OFF, then ON

(4) Identify any safety concerns.

- safety glasses

- safety shoes

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