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| Triskel  United States Department of Transportation  National Highway Traffic Safety Administration | VEHICLE INSPECTION (CAPI) | Form Approved O.M.B. No. 2127-0626  Expiration Date: XXXX  Tire Pressure Monitoring System –  Outage Rates and Repair Costs |

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A federal agency may not conduct or sponsor, and a person is not required to respond to, nor shall a person be subject to a penalty for failure to comply with a collection of information subject to the requirements of the Paperwork Reduction Act unless that collection of information displays a current valid OMB Control Number. The OMB Control Number for this information collection is 2127-0626 (Expiration date: XX/XX/XXXX). Public reporting for this collection of information is estimated to be approximately 10 minutes per response, including the time for reviewing instructions, completing and reviewing the collection of information. All responses to this collection of information are voluntary. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden to: Information Collection Clearance Officer, National Highway Traffic Safety Administration, 1200 New Jersey Ave, S.E., Washington, DC, 20590. NHTSA Form 1273.

Formatting conventions:

Questionnaire item

///PROGRAMMING LOGIC///

Explanatory notes

Programmer Notes:

* All variables are assumed to be numeric
* For SELECT ALL THAT APPLY items, create a series of variables with **\_1**, **\_2**, etc. appended to original variable name to indicate selection status of each response option
* For OTHER: SPECIFY items, create a new variable (length $ 256) with **\_OTHER** appended to original variable name to hold open-end text

Disposition Definitions:

* 61 = Completed inspection

## MODULE INSPECTION: IF DRIVER IS PARTICIPATING AND MODELYEAR≥2004

///Generate MASTERID and communicate to driver interviewer for syncing///

TPMSTAPE Has an attempt been made to cover up any indicator lights on the dash (e.g., with tape)?

1. YES
2. NO

///TURN IGNITION FROM LOCK (0) TO ON (II) POSITION AND PAUSE 5 SECONDS///

TPMSON Select all TPMS-related indicator lights or readouts visibly illuminated on the dash (allowing for minor stylistic variations or differences in wording):

[SELECT ALL THAT APPLY FROM GRAPHICAL GRID]

///VALIDATE: SELECTION OF “NONE VISIBLE” MEANS NO OTHER OPTIONS ARE SELECTED///

|  |  |
| --- | --- |
| 1. tire pressure monitoring system warning light icon | 1. C:\Documents and Settings\Charlene.Doyle\Local Settings\Temporary Internet Files\Content.Word\Santa Fe TPMS.JPG |
| 1. C:\Documents and Settings\Charlene.Doyle\Local Settings\Temporary Internet Files\Content.Word\Santa Fe TPMS.JPG | 1. C:\Documents and Settings\Charlene.Doyle\Local Settings\Temporary Internet Files\Content.Word\Safe_Braking_tpms.jpg |
| 1. WORDS ON DIGITAL READOUT: “CHECK {LEFT FRONT} TIRE PRESSURE” | 1. WORDS ON DIGITAL READOUT: “TIRE PRESSURE TOO LOW” |
| 1. WORDS ON DIGITAL READOUT: “TPMS SYSTEM MALFUNCTION” |  |
| 1. OTHER: SPECIFY | 1. NONE VISIBLE |

WARN1 Are ANY indicator lights (other than TPMS indicators) illuminated in ON (II) position?

1. YES
2. NO

98. DON’T KNOW

///TURN IGNITION FROM ON (II) TO START (III) POSITION AND PAUSE 5 SECONDS///

TPMSSTART Select all TPMS-related indicator lights or readouts visibly illuminated on the dash (allowing for minor stylistic variations or differences in wording):

[SELECT ALL THAT APPLY FROM GRAPHICAL GRID]

///VALIDATE: SELECTION OF “NONE VISIBLE” MEANS NO OTHER OPTIONS ARE SELECTED///

|  |  |
| --- | --- |
| 1. tire pressure monitoring system warning light icon SOLID | 1. tire pressure monitoring system warning light icon FLASHING |
| 1. C:\Documents and Settings\Charlene.Doyle\Local Settings\Temporary Internet Files\Content.Word\Santa Fe TPMS.JPG SOLID | 1. C:\Documents and Settings\Charlene.Doyle\Local Settings\Temporary Internet Files\Content.Word\Santa Fe TPMS.JPG FLASHING |
| 1. C:\Documents and Settings\Charlene.Doyle\Local Settings\Temporary Internet Files\Content.Word\Santa Fe TPMS.JPG | 1. C:\Documents and Settings\Charlene.Doyle\Local Settings\Temporary Internet Files\Content.Word\Safe_Braking_tpms.jpg |
| 1. WORDS ON DIGITAL READOUT: “CHECK {LEFT FRONT} TIRE PRESSURE” | 1. WORDS ON DIGITAL READOUT: “TIRE PRESSURE TOO LOW” |
| 1. WORDS ON DIGITAL READOUT: “TPMS SYSTEM MALFUNCTION” |  |
| 1. OTHER: SPECIFY | 1. NONE VISIBLE |

WARN2 Are any other indicator lights (other than TPMS indicators) illuminated in START (III) position?

1. YES
2. NO

98. DON’T KNOW

* IF TPMSON NE 9 AND TPMSSTART IN 2,4,9 THEN TPMSMALF=1; indicator(s) working @ ON, system malfunction @ START
* ELSE IF TPMSON NE 9 AND TPMSSTART IN 1,3,5,6,7,8 THEN TPMSMALF=2; indicator(s) working @ ON, low pressure only @ START
* ELSE IF TPMSON=9 AND TPMSSTART=11 THEN TPMSMALF=3; no TPMS indicator(s) @ ON, no TPMS indicator(s) @ START
* ELSE IF TPMSON NE 9 AND TPMSSTART=11 THEN TPMSMALF=4; indicator(s) @ ON, no indicator(s) @ START
* ELSE TPMSMALF=5; status unclear, screen out

OBSERVER: Before proceeding with observation, communicate TPMS indicator status (TPMSMALF=1,2,3,4,5) to interviewer verbally or using pre-determined hand signal, and await interviewer code match confirmation.

ODOMETER Odometer reading

/RANGE 1-1,000,000/

EMAG Does the vehicle contain visible equipment that could cause electromagnetic interference (e.g., radar detector)?

1. YES
2. NO

///LOOP: X = {LF, LR, RR, RF}///

STEMCON\_X What is the condition of the valve stem on the X tire?

1. GOOD
2. POOR (E.G., CRACKED OR CORRODED)
3. NO VALVE STEM VISIBLE

///ASK IF STEMCON\_X = 1,2, Not missing valve stem on X tire///

STEMMAT\_X Of what material is the valve stem on the X tire made?

1. RUBBER OR PLASTIC
2. METAL
3. OTHER MATERIAL

CAPCON\_X What is the condition of the valve cap on the X tire?

1. GOOD
2. POOR (E.G., CRACKED OR CORRODED)
3. NO VALVE CAP VISIBLE

///ASK IF CAPCON\_X = 1,2, Not missing valve cap on X tire///

CAPMAT\_X Of what material is the valve cap on the X tire made?

1. RUBBER OR PLASTIC
2. METAL
3. OTHER MATERIAL

///END LOOP///

SPARE Does the vehicle appear to have one or more spare tires (mini- or full-size) or non-matching wheels installed?

1. YES
2. NO

///SET DISPO = 61, Completed inspection///

### END MODULE INSPECTION

## MODULE NON-RESPONSE: ALL VEHICLES APPROACHED

///Set MASTERID to contain site ID and timestamp to enable linking with Driver Interview///

DATE [INTERNAL]

TIME [INTERNAL]

SITENUM [INTERNAL]

BODY\_OBS Body type of vehicle

1. SUV
2. AUTO (INCLUDES SEDAN/WAGON/HATCHBACK)
3. VAN (INCLUDES TRADITIONAL AND MINIVANS)
4. LIGHT TRUCK

MAKE\_OBS Make of vehicle

1. BMW
2. BUICK
3. CADILLAC
4. CHEVROLET
5. CHRYSLER
6. DODGE
7. FORD
8. GMC
9. HONDA
10. HYUNDAI
11. JEEP
12. KIA
13. LEXUS
14. MAZDA
15. MERCEDES
16. NISSAN
17. RAM
18. SUBARU
19. TOYOTA
20. VOLKSWAGEN
21. OTHER: SPECIFY

98. DON’T KNOW

LANG\_OBS Language spoken

1. ENGLISH
2. SPANISH
3. OTHER

98. DON’T KNOW

AGE\_OBS Age of driver

1. YOUNG ADULT (Up to 25)
2. ADULT (25-69)
3. SENIOR (70 and over)

98. DON’T KNOW

SEX\_OBS Sex of driver

1. MALE
2. FEMALE

98. DON’T KNOW

OCCUPAD Number of ADULT occupants (if ages are unclear, count all as adult)

/RANGE 1-10/

98. DON’T KNOW

OCCUPCH Number of CHILD occupants (if ages are unclear, count all as adult)

/RANGE 1-10/

98. DON’T KNOW

DAMG\_OBS Is there damage to the vehicle?

1. NONE VISIBLE (ALLOWING FOR PAINT SCRAPES, WINDOW ISSUES, WIPER ISSUES)
2. MINOR (E.G., DENTED FENDERS/BODY PANELS)
3. MAJOR (E.G., MAJOR DAMAGE TO HOOD, FRONT END, REAR END, DOORS THAT WOULD MAKE PARTS OF VEHICLE UNUSABLE)

98. DON’T KNOW

HITCH Is the vehicle equipped with a rear hitch?

1. YES
2. NO

98. DON’T KNOW

ELEC\_OBS Is the car a hybrid or electric?

1. YES
2. NO

98. DON’T KNOW

FUEL\_OBS Fuel type purchased

1. DIESEL
2. REGULAR (GENERALLY 87 OCTANE)
3. MID-GRADE (GENERALLY 89 OCTANE)
4. PREMIUM (GENERALLY 91 OCTANE)
5. OTHER

98. DON’T KNOW

PAY Where was payment for fuel made?

1. AT PUMP
2. IN STORE

98. DON’T KNOW

### END MODULE NON-RESPONSE