# PADI Telltale – CGEA1.3

## Functional Description

A PADI provides indication of airbag ON or OFF state for the associated seating position.

Generally, the PADI is only associated with the front outboard passenger seating position. With the introduction of Autonomous Vehicles (AV), a PADI may be associated with more than one seating position. In particular, a PADI may also be used to indicate status of the 1st row, former driver, seating position in an AV.

The PADI Indicators shall provide an iconic representation that will illuminate to inform the airbag ON or OFF state for the associated seating position.

The PADI indicators shall be displayed on the Center Stack, and not on the Cluster display.

## Interfaces

### Interface Context Diagram (I/O Block Diagram)

**Figure 1. PADI Indication Function**



### Inputs

#### IR-REQ-380069/A-INTERNAL:

DIAG\_SESSION\_TIMER

Operational\_Mode

DIAG\_DID\_61A5,4,6 (all warning lamps)

ETM\_Bulb\_Check\_State

Self\_Test\_Entry\_Bulb\_Check\_Timer

PADI\_Telltale\_Cfg

PADI\_HW\_Fault – This is a digital variable that is set to (0x1) when the electronic display is not capable of illuminating the PADI ON indicator when the electronics is requesting it to be illuminated. This flag is cleared when the electronic display is capable of illuminating the PADI ON indicator.

* PADI\_HW\_Fault States:
  + (0x0) = OK
  + (0x1) = Fault

#### MUX messages on the CAN Bus from RCM:

##### SIG-REQ-380070/A-PassRstrnInd\_Req Signal:(U718 we have this one)

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Signal Name** | **Size**  **(bits)** | **Detail** | **Units** | **Res.** | **Offset** | **State**  **Encoded** | **Min.** | **Max.** |
| PassRstrnInd\_Req | 2 |  | Unitless | 1 | 0 |  | 0 (0x0) | 3 (0x3) |
|  |  | AirbagOn\_Illum\_Off\_Illum |  |  |  | 0x0 |  |  |
|  |  | AirbagOn\_Illum\_OffNotIllum |  |  |  | 0x1 |  |  |
|  |  | AirbagOnNotIllum\_OffIllum |  |  |  | 0x2 |  |  |
|  |  | ABOnNotIllum\_OffNotIllum |  |  |  | 0x3 |  |  |

##### SIG-REQ-380071/A-PassRstrnIndB\_Req Signal:

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Signal Name** | **Size**  **(bits)** | **Detail** | **Units** | **Res.** | **Offset** | **State**  **Encoded** | **Min.** | **Max.** |
| PassRstrnIndB\_Req | 2 |  | Unitless | 1 | 0 |  | 0 (0x0) | 3 (0x3) |
|  |  | AirbagOn\_Illum\_Off\_Illum |  |  |  | 0x0 |  |  |
|  |  | AirbagOn\_Illum\_OffNotIllum |  |  |  | 0x1 |  |  |
|  |  | AirbagOnNotIllum\_OffIllum |  |  |  | 0x2 |  |  |
|  |  | ABOnNotIllum\_OffNotIllum |  |  |  | 0x3 |  |  |

### Outputs

#### IR-REQ-380072/A-INTERNAL:

PADI\_ON\_TT, which is used to control the state of the TT associated with Front outboard passenger seating position.

PADI\_OFF\_TT, which is used to control the state of the TT associated with Front outboard passenger seating position.

PADI\_DRV\_ON\_TT, which is used to control the state of the TT associated with 1st row, former driver, seating position in an AV.

PADI\_DRV\_OFF\_TT, which is used to control the state of the TT associated with 1st row, former driver, seating position in an AV.

#### MUX messages on the CAN Bus:

##### SIG-REQ-380074/A-PassRstrnInd\_Stat Signal:

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Signal Name** | **Size**  **(bits)** | **Detail** | **Units** | **Res.** | **Offset** | **State**  **Encoded** | **Min.** | **Max.** |
| PassRstrnInd\_Stat | 3 |  | Unitless | 1 | 0 |  | 0 (0x0) | 7  (0x7) |
|  |  | Not\_Supported |  |  |  | 0x0 |  |  |
|  |  | Normal |  |  |  | 0x1 |  |  |
|  |  | AirbagOn\_Indicator\_fault |  |  |  | 0x2 |  |  |
|  |  | AirbagOff\_Indicator\_fault |  |  |  | 0x3 |  |  |
|  |  | Both\_Indicators\_Faulted |  |  |  | 0x4 |  |  |
|  |  | Unused\_1 |  |  |  | 0x5 |  |  |
|  |  | Unused\_2 |  |  |  | 0x6 |  |  |
|  |  | Invalid |  |  |  | 0x7 |  |  |

##### SIG-REQ-380075/A-PassRstrnIndB\_Stat Signal:(ev vehicle)

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Signal Name** | **Size**  **(bits)** | **Detail** | **Units** | **Res.** | **Offset** | **State**  **Encoded** | **Min.** | **Max.** |
| PassRstrnIndB\_Stat | 3 |  | Unitless | 1 | 0 |  | 0 (0x0) | 7  (0x7) |
|  |  | Not\_Supported |  |  |  | 0x0 |  |  |
|  |  | Normal |  |  |  | 0x1 |  |  |
|  |  | AirbagOn\_Indicator\_fault |  |  |  | 0x2 |  |  |
|  |  | AirbagOff\_Indicator\_fault |  |  |  | 0x3 |  |  |
|  |  | Both\_Indicators\_Faulted |  |  |  | 0x4 |  |  |
|  |  | Unused\_1 |  |  |  | 0x5 |  |  |
|  |  | Unused\_2 |  |  |  | 0x6 |  |  |
|  |  | Invalid |  |  |  | 0x7 |  |  |

## Function / Performance

### F-REQ-380085/A-Operational Modes

|  |  |
| --- | --- |
| **Mode** | **Differentiating Vehicle Conditions** |
| Sleep Mode | PADI\_ON\_TT / PADI\_OFF\_TT / PADI\_DRV\_ON\_TT / PADI\_DRV\_OFF\_TT = Inactive |
| Limited | PADI\_ON\_TT / PADI\_OFF\_TT / PADI\_DRV\_ON\_TT / PADI\_DRV\_OFF\_TT = Inactive |
| Normal Mode | PADI\_ON\_TT / PADI\_OFF\_TT / PADI\_DRV\_ON\_TT / PADI\_DRV\_OFF\_TT = Inactive / Active |
| Crank Mode | PADI\_ON\_TT / PADI\_OFF\_TT / PADI\_DRV\_ON\_TT / PADI\_DRV\_OFF\_TT = Inactive / Active |

### Voltage levels

Refer to the Cluster Features table located in the Operational Modes and Voltage Range Strategies section in this SPSS.

### Human-Machine Interface

#### Visual

##### Indicator Graphics / Display Format

###### HMI-REQ-380103/A-Single Instance of a Dual PADI (Non-AV vehicles)

OFF state of a Dual PADI:



ON state of a Dual PADI:



OFF and ON state of a Dual PADI:



OFF” text shall be Left-justified. “ON” text shall be Right-justified.

Refer to HMI for exact text and layout.

###### Two Instances of a Dual PADI (AV vehicles)

Left Passenger OFF and Right Passenger ON:

 

Left Passenger ON and Right Passenger OFF:

 

Left Passenger OFF / ON and Right Passenger OFF / ON:

 

Refer to HMI for exact text and layout.

##### HMI-REQ-380101/A-Indicator Color Coordinates

Amber - Reference SDS IL-0017/IS-0379

Red - Reference SDS – IL0017

##### HMI-REQ-380102/A-Indicator Characteristics

PADI Fixed / Dedicated Indicator.

#### Audio

None.

#### Switch Control Logic

Not applicable.

### PFM-REQ-380088/A-System Accuracy

The PADI\_ON\_TT and PADI\_OFF\_TT shall change the state of the Telltale within 100msec of a state change as indicated in F-REQ-380090.

The PADI\_DRV\_ON\_TT and PADI\_DRV\_OFF\_TT shall change the state of the Telltale within 100msec of a state change as indicated in F-REQ-380092.

### Operation: Performance and Functional

#### Subsystem Algorithm Flowchart / State Diagram

##### F-REQ-380091/B-CAN Diagnostic Routine:



##### F-REQ-380090/A-State Matrix for PADI\_ON\_TT and PADI\_OFF\_TT:

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Operational\_Mode** | **PADI\_Telltale\_Cfg** | **ETM Bulb\_ Check\_State** | **DIAG\_**  **SESSION\_**  **TIMER** | **Self\_Test\_ Entry\_Bulb\_ Check\_Timer** | **DIAG\_DID\_**  **61A5,4,6**  **(all warning lamps)** | **PADI\_HW\_Fault** | **PassRstrnInd\_Req** | **PADI\_ON\_TT** | **PADI\_OFF\_TT** | **PassRstrnInd\_Stat** |
| Normal  OR  Crank | No PADI Indicator 0x0)  OR  Not Used (0x3) | X | X | X | X | X | X | OFF | OFF | Not\_Supported (0x0) |
| Single Instance of a Dual PADI Indicator (0x1)  OR  Two Instances of a Dual PADI Indicator (0x2) | X | Inactive | X | X | OK (0x0) | AirbagOn\_Illum\_Off\_Illum (0x0) | ON | ON | Normal (0x1) |
| OFF (0x0) | Inactive | X | X | OK (0x0) | AirbagOn\_Illum\_OffNotIllum (0x1) | ON | OFF | Normal (0x1) |
| X | Inactive | X | X | Fault (0x1) | AirbagOn\_Illum\_Off\_Illum (0x0) | ON | ON | Both\_Indicators\_Faulted (0x4) |
| OFF (0x0) | Inactive | X | X | Fault (0x1) | AirbagOn\_Illum\_OffNotIllum (0x1) | ON | OFF | Both\_Indicators\_Faulted (0x4) |
| OFF (0x0) | Inactive | X | X | X | AirbagOnNotIllum\_OffIllum (0x2) | OFF | ON | Normal (0x1) |
| X | Inactive | X | X | X | ABOnNotIllum\_OffNotIllum (0x3) | OFF | OFF | Normal (0x1) |
| ON (0x1) | Inactive | X | X | OK (0x0) | X | ON | ON | Normal (0x1) |
| ON (0x1) | Inactive | X | X | Fault (0x1) | X | ON | ON | Both\_Indicators\_Faulted (0x4) |
| OFF (0x0) | Inactive | X | X | X | Declared Missing as per 1.4.1 | OFF | OFF | Both\_Indicators\_Faulted (0x4) |
| Normal | Single Instance of a Dual PADI Indicator (0x1)  OR  Two Instances of a Dual PADI Indicator (0x2) | X | Active | Inactive | Not Received | OK (0x0) | AirbagOn\_Illum\_Off\_Illum (0x0) | ON | ON | Normal (0x1) |
| OFF (0x0) | Active | Inactive | Not Received | OK (0x0) | AirbagOn\_Illum\_OffNotIllum (0x1) | ON | OFF | Normal (0x1) |
| X | Active | X | Not Received | Fault (0x1) | AirbagOn\_Illum\_Off\_Illum (0x0) | ON | ON | Both\_Indicators\_Faulted (0x4) |
| OFF (0x0) | Active | Inactive | Not Received | Fault (0x1) | AirbagOn\_Illum\_OffNotIllum (0x1) | ON | OFF | Both\_Indicators\_Faulted (0x4) |
| OFF (0x0) | Active | Inactive | Not Received | X | AirbagOnNotIllum\_OffIllum (0x2) | OFF | ON | Normal (0x1) |
| X | Active | Inactive | Not Received | X | ABOnNotIllum\_OffNotIllum (0x3) | OFF | OFF | Normal (0x1) |
| ON (0x1) | Active | X | X | OK (0x0) | X | ON | ON | Normal (0x1) |
| ON (0x1) | Active | X | X | Fault (0x1) | X | ON | ON | Both\_Indicators\_Faulted (0x4) |
| X | Active | Active | X | OK (0x0) | X | ON | ON | Normal (0x1) |
| X | Active | Active | X | Fault (0x1) | X | ON | ON | Both\_Indicators\_Faulted (0x4) |
| X | Active | X | ON (0x1) | OK (0x0) | X | ON | ON | Normal (0x1) |
| X | Active | X | ON (0x1) | Fault (0x1) | X | ON | ON | Both\_Indicators\_Faulted (0x4) |
| OFF | Active | Inactive | Not Received | X | Declared Missing as per 1.4.1 | OFF | OFF | Both\_Indicators\_Faulted (0x4) |
| All Other Cases | | | | | | | | OFF | OFF | Normal (0x1) |

##### F-REQ-380092/A-State Matrix for PADI\_DRV\_ON\_TT and PADI\_DRV\_OFF\_TT:

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Operational\_Mode** | **PADI\_Telltale\_Cfg** | **ETM Bulb\_ Check\_State** | **DIAG\_**  **SESSION\_**  **TIMER** | **Self\_Test\_ Entry\_Bulb\_ Check\_Timer** | **DIAG\_DID\_**  **61A5,4,6**  **(all warning lamps)** | **PADI\_HW\_Fault** | **PassRstrnIndB\_Req** | **PADI\_DRV\_ON\_TT** | **PADI\_DRV\_OFF\_TT** | **PassRstrnIndB\_Stat** |
| Normal  OR  Crank | No PADI Indicator 0x0)  OR  Single Instance of a Dual PADI Indicator (0x1)  OR  Not Used (0x3) | X | X | X | X | X | X | OFF | OFF | Not\_Supported (0x0) |
| Two Instances of a Dual PADI Indicator (0x2) | X | Inactive | X | X | OK (0x0) | AirbagOn\_Illum\_Off\_Illum (0x0) | ON | ON | Normal (0x1) |
| OFF (0x0) | Inactive | X | X | OK (0x0) | AirbagOn\_Illum\_OffNotIllum (0x1) | ON | OFF | Normal (0x1) |
| X | Inactive | X | X | Fault (0x1) | AirbagOn\_Illum\_Off\_Illum (0x0) | ON | ON | Both\_Indicators\_Faulted (0x4) |
| OFF (0x0) | Inactive | X | X | Fault (0x1) | AirbagOn\_Illum\_OffNotIllum (0x1) | ON | OFF | Both\_Indicators\_Faulted (0x4) |
| OFF (0x0) | Inactive | X | X | X | AirbagOnNotIllum\_OffIllum (0x2) | OFF | ON | Normal (0x1) |
| X | Inactive | X | X | X | ABOnNotIllum\_OffNotIllum (0x3) | OFF | OFF | Normal (0x1) |
| ON (0x1) | Inactive | X | X | OK (0x0) | X | ON | ON | Normal (0x1) |
| ON (0x1) | Inactive | X | X | Fault (0x1) | X | ON | ON | Both\_Indicators\_Faulted (0x4) |
| OFF (0x0) | Inactive | X | X | X | Declared Missing as per 1.4.1 | OFF | OFF | Both\_Indicators\_Faulted (0x4) |
| Normal | Two Instances of a Dual PADI Indicator (0x2) | X | Active | Inactive | Not Received | OK (0x0) | AirbagOn\_Illum\_Off\_Illum (0x0) | ON | ON | Normal (0x1) |
| OFF (0x0) | Active | Inactive | Not Received | OK (0x0) | AirbagOn\_Illum\_OffNotIllum (0x1) | ON | OFF | Normal (0x1) |
| X | Active | Inactive | Not Received | Fault (0x1) | AirbagOn\_Illum\_Off\_Illum (0x0) | ON | ON | Both\_Indicators\_Faulted (0x4) |
| OFF (0x0) | Active | Inactive | Not Received | Fault (0x1) | AirbagOn\_Illum\_OffNotIllum (0x1) | ON | OFF | Both\_Indicators\_Faulted (0x4) |
| OFF (0x0) | Active | Inactive | Not Received | X | AirbagOnNotIllum\_OffIllum (0x2) | OFF | ON | Normal (0x1) |
| X | Active | Inactive | Not Received | X | ABOnNotIllum\_OffNotIllum (0x3) | OFF | OFF | Normal (0x1) |
| ON (0x1) | Active | X | X | OK (0x0) | X | ON | ON | Normal (0x1) |
| ON (0x1) | Active | X | X | Fault (0x1) | X | ON | ON | Both\_Indicators\_Faulted (0x4) |
| X | Active | Active | X | OK (0x0) | X | ON | ON | Normal (0x1) |
| X | Active | Active | X | Fault (0x1) | X | ON | ON | Both\_Indicators\_Faulted (0x4) |
| X | Active | X | ON (0x1) | OK (0x0) | X | ON | ON | Normal (0x1) |
| X | Active | X | ON (0x1) | Fault (0x1) | X | ON | ON | Both\_Indicators\_Faulted (0x4) |
| OFF | Active | Inactive | Not Received | X | Declared Missing as per 1.4.1 | OFF | OFF | Both\_Indicators\_Faulted (0x4) |
| All Other Cases | | | | | | | | OFF | OFF | Normal (0x1) |

#### Operation Description (supports algorithm flowchart /state diagram)

##### PADI\_ON\_TT and PADI\_OFF\_TT Operation in an AV:

PADI\_ON\_TT and PADI\_OFF\_TT shall be active in Automated mode as well as Manual mode in an AV.

##### PADI\_DRV\_ON\_TT and PADI\_DRV\_OFF\_TT Operation in an AV:

PADI\_DRV\_ON\_TT and PADI\_DRV\_OFF\_TT shall be active only in Automated mode, and shall be inactive in Manual mode in an AV.

#### Function Safety Classification (EMC)

Class B

#### NVM-REQ-380095/B-Memory Storage

| **Parameter Name** | **Description** | **Value at**  **Battery Connect** | **Value at**  **Module Wake-up** |
| --- | --- | --- | --- |
| PADI\_ON\_TT | Used to control the state of the TT | OFF (0x0) | OFF (0x0) |
| PADI\_OFF\_TT | Used to control the state of the TT | OFF (0x0) | OFF (0x0) |
| PADI\_DRV\_ON\_TT | Used to control the state of the TT | OFF (0x0) | OFF (0x0) |
| PADI\_DRV\_OFF\_TT | Used to control the state of the TT | OFF (0x0) | OFF (0x0) |
| PassRstrnInd\_Req signal | Input CAN signal sent from the RCM | ABOnNotIllum\_OffNotIllum (0x3) | ABOnNotIllum\_OffNotIllum (0x3) |
| PassRstrnIndB\_Req signal | Input CAN signal sent from the RCM | ABOnNotIllum\_OffNotIllum (0x3) | ABOnNotIllum\_OffNotIllum (0x3) |
| PassRstrnInd\_Stat | Output CAN signal | Normal (0x1) | Normal (0x1) |
| PassRstrnIndB\_Stat | Output CAN signal | Normal (0x1) | Normal (0x1) |
| PADI\_HW\_Fault | State indicator for electronic display of PADI ON indicators | OK (0x0) | OK (0x0) |
| PADI\_Telltale\_Cfg | State Indicator for feature presence controlled via CAN at EOL at VO plant. ~~Defaulted to ‘Dual Instance Dual PADI Indicator’ at Cluster supplier manufacturing plant.~~ | Use Stored Value | Use Stored Value |
| DIAG\_DID\_61A5,4,6 (all warning lamps) | Warning Lamp Status 2, byte 4, bit 6 (all warning lamps) | 0 (0x0) | 0 (0x0) |
| ETM\_Bulb\_Check\_State | State indicator for warning bulb in ETM | Off (0x0) | Off (0x0) |
| Operational\_Mode | 4 state indicator for cluster operational mode | Limited | Limited or Normal or Crank |

|  |  |  |  |
| --- | --- | --- | --- |
| **Timer Name** | **Description** | **Value at**  **Battery Connect** | **Value at**  **Module Wake-up** |
| DIAG\_SESSION\_TIMER | Timer used to time-out a diagnostic session | Not Active | Not Active |
| Self\_Test\_Entry\_Bulb\_Check\_Timer | Timer used in diagnostic session to do a self check of telltales | Not Active | Not Active |

#### Prove Out

None

#### Reconfigurable Telltale

No

#### Message Center Msg

See Message Center Function

## Error Handling

### Missing Message Strategy

The signals will be declared missing as per the Diagnostics section of this SPSS.

DTCs states and history will be determined as per the Diagnostics section of this SPSS.

#### SR-REQ-380096/A-Missing Message Strategy based on PADI\_Telltale\_Cfg

If PADI\_Telltale \_Cfg = Disabled , the cluster shall never log a missing message DTC due to this feature.

## Diagnostics

### DIR-REQ-380097/A-Self Test

Bulb illuminated during self test as per Self\_Test\_Entry\_Bulb\_Check\_Timer.

### Engineering Test Mode

Reference section “Dealer / Engineering Test Mode (ETM)”

### Part II Performance

#### DID-REQ-380098/A-Supported Diagnostic DIDs (Service $22 and $2F)

|  |  |  |
| --- | --- | --- |
| **Number** | **DID / CommonID Name** | **DID Type** |
| 61A5 | Warning Lamp Status 2, byte 4, bit 6 (all warning lamps) | Bit mapped |

#### DTC-REQ-380099/A-Supported Diagnostic Trouble Codes (DTCs)

DTCs shall be logged as per the diagnostic section of this SPSS.

|  |  |
| --- | --- |
| **DTC** | **Description** |
| C15100 | Lost Communication with Restraints Control Module |

#### DCR-REQ-380100/B-DID DExx

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Block**  **Num** | **Block Description** | **Size (bits)** |  | **Byte(s)** | **Bit(s)** | **State: Description** | **"0"** | **"1"** | **Default** | **Comments/**  **Information** |
| PACKETED BLOCKS | |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |
| $0B | Option Content (B&A) | 2 |  | \* | \* | PADI Telltale | encoded | encoded | ‘00’ | PADI – Passenger Airbag Deactivation Indicator  Set to ‘10’ (Two Instances of a Dual PADI Indicator) in an AV  SW to treat ‘11’ as ‘00’ |
|  |  |  |  |  |  | 00 – No PADI Indicator | encoded | encoded |  |
|  |  |  |  |  |  | 01 - Single Instance of a Dual PADI Indicator | encoded | encoded |  |
|  |  |  |  |  |  | 10 – Two Instances of a Dual PADI Indicator | encoded | encoded |  |
|  |  |  |  |  |  | 11 – Not Used | encoded | encoded |  |
| \*Byte and bit location to be identified in Part II Specification for this cluster | | | | | | | | | | |

## Reference Specification

IS-0001 WARNINGS/INDICATORS/DISPLAYS PROVEOUT

IS-0046 INSTRUMENTATION MATERIAL RESISTANCE TO CLEANING

IS-0052 OPERATING VOLTAGES - FUNCTIONAL/PERFORMANCE

IS-0069 FUNCTIONAL IMPORTANCE CLASS

IS-0324 WINDSHIELD & OTHER REFLECTIONS

IS-0327 WARNING INDICATOR EVALUATION

IS-0329 FLICKERING OF LAMPS

IS-0379 NORTH AMERICAN WARNINGS AND INDICATORS STRATEGY

IL-0017 TELLTALE AND INTERIOR ILLUMINATION COLOR

IL-0021 CRAFTSMANSHIP - DISPLAYS

IL-0023 CLARITY/LEGIBILITY/READABILITY

IL-0025 INTERIOR ILLUMINATION INTENSITY

IL -0027 VISUAL CONTRAST

IL -0043 OPERATIONAL ENVIRONMENT FUNCTIONALITY

IL -0045 COLOR

IL -0047 TELLTALE; INDICATOR AND DISPLAY LIGHT INTENSITY

IL -0048 ILLUMINATION ACCEPTABILITY

03-0661  PLACEMENT: CONTROL AND DISPLAY LOCATIONS

03-0662  PLACEMENT: LOGICAL GROUPING FUNCTION AND USAGE

03-0664  PLACEMENT: DOWN VISION TO COMPONENTS WITH HIGH VISUAL DEMAND

03-0665  PLACEMENT: EXPECTED LOCATIONS OF CONTROLS AND DISPLAYS VDS

03-0670  INTERIOR VISIBILITY

03-0671  INTERIOR VISIBILITY: REFLECTIONS FROM COMPONENTS & SURFACES

03-0672  INTERIOR VISIBILITY: REFLECTIONS IN DISPLAYS

03-0673  INTERIOR VISIBILITY: VISUAL OBSCURATIONS

03-0674  INTERIOR VISIBILITY: ILLUMINATION CONTROLS / DISPLAYS

03-0675  INTERIOR VISIBILITY: VEILING GLARE

03-0677  INTERIOR VISIBILITY: SUNLIGHT WASHOUT

03-0681  IDENTIFICATION: CHARACTER AND SYMBOL SIZE

03-0682  IDENTIFICATION: LEGIBILITY

03-0685  IDENTIFICATION: SYMBOLS,  ABBREV FOR CONTROL

03-0721  LOGIC OF OPERATION: OPERATIONAL STEREOTYPES

03-0722  LOGIC OF OPERATION: INTERPRETATION

03-0723  LOGIC OF OPERATION: USE OF SYSTEMS WITH VISUAL DISPLAYS

## Revision History

**SPSS Module Revision History**

|  |  |  |  |
| --- | --- | --- | --- |
| **Revision Level** | **Name** | **Change Description** | **Date** |
| 1.0 | James Raj. A | Initial Release for PADI Telltale. Feature owner – David Tippy. | 2/17/2020 |
| 1.1 | James Raj. A | 1. Section 1.2.1, 1.3.5.1.1, 1.5.3.3 - Replaced DID DExx location for PADI\_Telltale\_Cfg from $DE0A to $DE0B. 2. Section 1.3.5.4 - Removed reference to default value for PADI\_Telltlae\_Cfg. | 3/2/2020 |
|  |  |  |  |