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Requirements for Built-in Service Port for On-Board Diagnostics

RATIONALE

No change expected or needed in this technology.

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Documents

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TABLE OF CONTENTS

1.	SCOPE	2
1.1	Mission/Theme	2
1.2	Classification	2
2.	REFERENCES	2
2.1	Applicable Publication	2
2.1.1	SAE Publication	2
2.2	Related Publications	2
3.	DEFINITIONS	3
4.	DESCRIPTION	3
4.1	Applications	3
4.1.1	Features	3
5.	REQUIREMENTS	3
5.1	Overall	3
5.2	Evaporative System Flow Restriction	3
5.3	Pressure Relief	3
5.4	Serviceability	3
5.5	Labeling	3
5.6	Mounting	3
5.7	Location	4
5.8	Ancillary Components Used to Incorporate the Service Port	4
5.9	Durability	4
5.10	Fuel Resistance	4
5.11	Sealing and Leaking	4
5.12	Physical Attributes (Refer to Figures 1, 2 and 3)	4
5.13	Mechanical Requirements	5

1. SCOPE

This document presents the requirements for a built-in service port to be used in vehicles intended to comply with Enhanced Evaporative Emissions Requirements. The primary function of the Service Port (Valve Assembly-Evaporative Emission Canister Purge Harness Service) is to provide non-destructive access to the evaporative emissions system to enable testing of the integrity of the system. The Service Port is used to introduce air pressure or fuel vapors into, or evacuates them out of, the system. This access may be used for the following evaluations:

- | | |
|-------------------------------------|---------------------------------------|
| • Evaporative System Certifications | Canister Loading and Purging |
| • End-of-line Testing | System Integrity |
| • Service (e.g. OBD MIL on) | Leak Location and Repair Verification |
| • In-Use Compliance Testing | Canister Loading and Purging |
| • Inspection/Maintenance Testing | System Integrity and Purge Check |

1.1 Mission/Theme

The Service Port is a component of the Evaporative Emissions Subsystem. It shall be an integral part of the Enhanced Evaporative Emission Subsystem and therefore all requirements of that system must be met.

1.2 Classification

The primary application of this service port will be passenger cars, and light, medium and heavy duty trucks that are required to have OBD II systems and meet Enhanced Evaporative Emissions Standards. This includes gasoline vehicles, and bi-fuel (gasoline/CNG) vehicles intended for sale in the United States and Canada or other marketplaces that adopt Enhanced Evaporative Emission Regulations similar to those in the United States and Canada.

2. REFERENCES

2.1 Applicable Publication

The following publication forms a part of this specification to the extent specified herein. Unless otherwise specified, the latest issue of SAE publications shall apply.

2.1.1 SAE Publication

Available from SAE International, 400 Commonwealth Drive, Warrendale, PA 15096-0001, Tel: 877-606-7323 (inside USA and Canada) or 724-776-4970 (outside USA), www.sae.org.

SAE J1681 Gasoline, Alcohol and Diesel Surrogates for Material Testing

2.2 Related Publications

The following publications are provided for information purposes and are not a required part of this document.

Federal Register for OBD2: 40 CFR Part 86

Federal Register for Enhanced Evaporative Systems

Federal Register for Inspection/Maintenance Programs

Federal Register for ORVR

California Documents OBD2 Final Rules: CARB Mail Out 93-40