





Your Instructor For This Seminar

"G" Jerry Truglia

- National Trainer, ASE World Class, Master Auto, Truck, School Bus, L1, L3, CNG and...
- ATTP Master Instructor, New York State, CT and New Jersey
- STS (Service Technician Society) 2003 President
- TST (Technicians Service Training) Founder and President
- Author / Co Author/ Technical adviser on 25 plus books including OBD II and Mode 6, and Understanding and Diagnosing Hybrid Vehicles
- Published articles for multiple newsletters, and magazines
- Picked as one of the Top Instructors in the country by EPA & SAE
- Numerous Radio, TV, Internet, and SAE Video appearances
- PTEN, MotorAge and TST Webcast Instructor
- Motor Magazine Top 20 award winner
- Provider of OBD II Training for 14 states, Ontario Canada and the US EPA
- Guest speaker at SAE Congress, IM Solutions and Clean Air Conference

DORMAN

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EVAP Leak Detection

This Dorman Lunch and Learn will cover a quick review of the EVAP system and concentrate on how to find leaks in the EVAP system. Live demo.

DORMAN

Introduced In The 1970's



Early canisters were equipped with a filter vent that was always open. As vapors were purged into the engine, fresh air was drawn into the canister.

A Thermal Vacuum Switch prevented purge in a cold engine.

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PCM Purge Control

In the 1980's, vehicles were equipped with Carburetors, Throttle Body Injection, and Port Injection.

During this time, vacuum controls gradually gave way to solenoid - operated Purge Valves, opened by an electrical control from the vehicle computer.

Electrical controls reduced the complexity of the system and improved its efficiency.



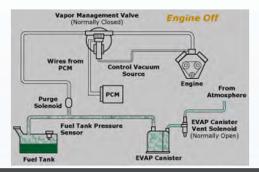
DORMAN.

OBD II Enhanced EVAP

The demands placed on the EVAP system increase with OBD II.

They include:

- Testing the operation of the Purge and Vent solenoid valves
- Testing purge flow
- Testing the entire system for vapor leaks as small as 0.010 in.



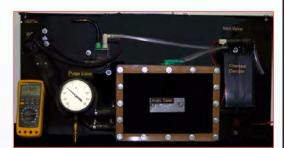
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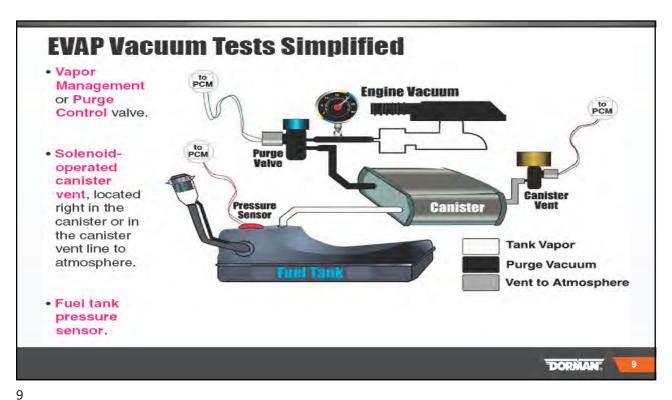
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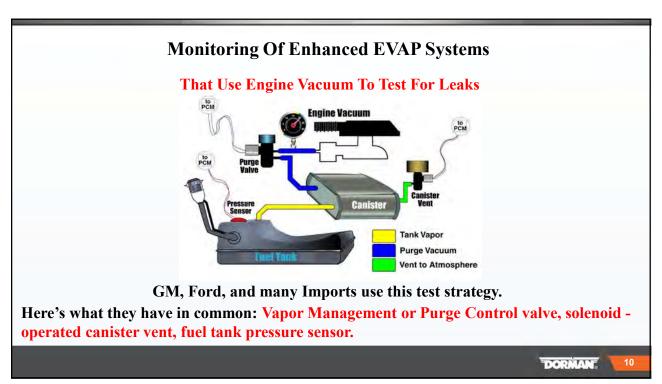
Evaporative System Components

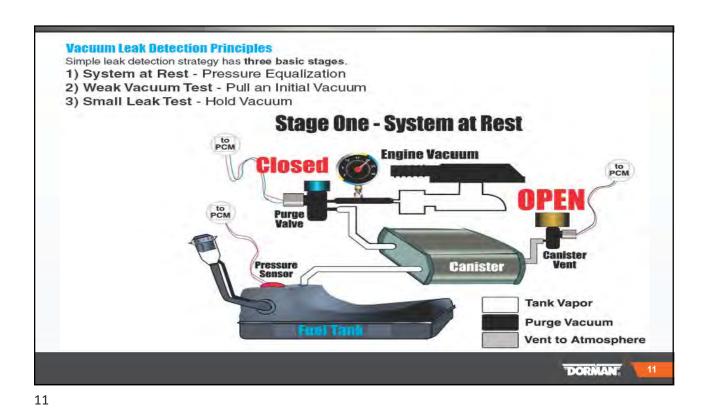
- 1. Canister Purge valve normally CLOSED
- 2. Canister
- 3. Fill neck and gas cap
- 4. Fuel Tank Pressure (FTP) and rollover valve
- 5. Fuel tank
- 6. Canister Vent valve normally OPEN
- 7. Vent line
- 8. Vapor line
- 9. Purge line
- 10. Service Schrader have **REVERSED THREADS**



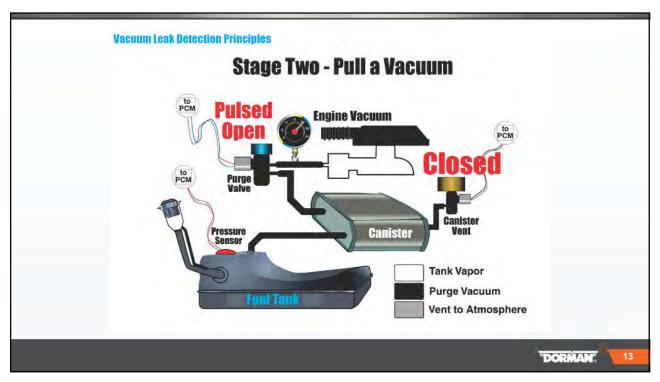
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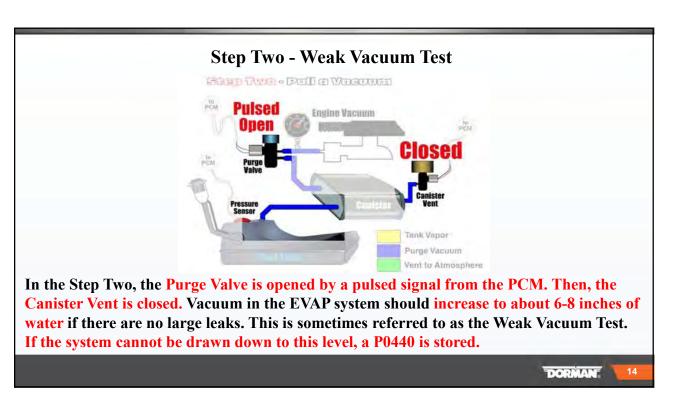


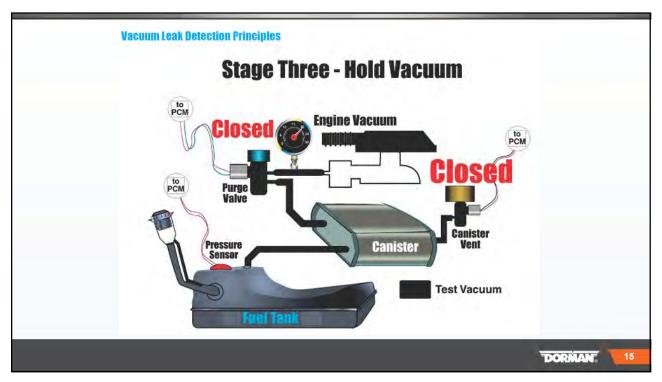


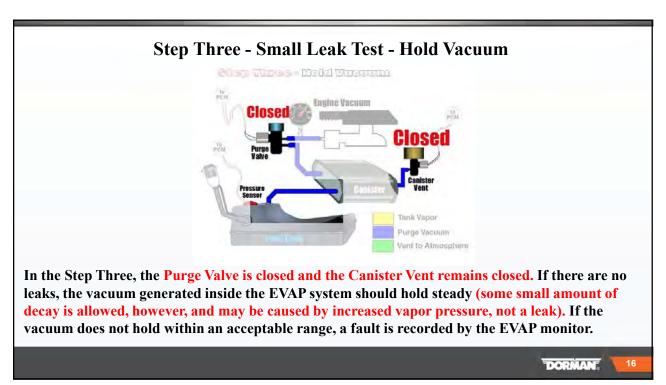


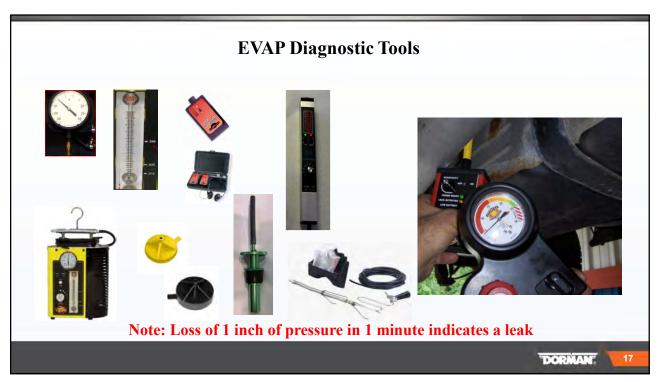
Step One - System at Rest - Pressure Equalization Closed Clo

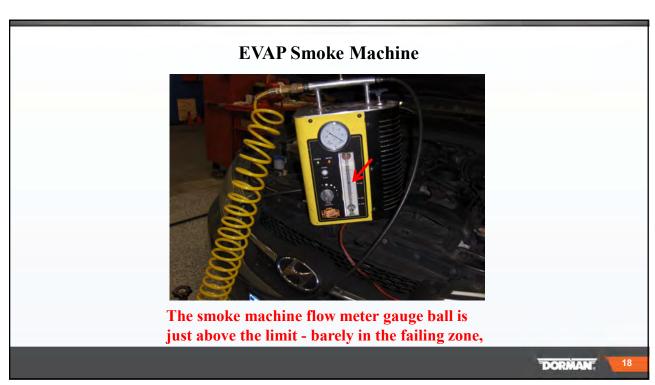


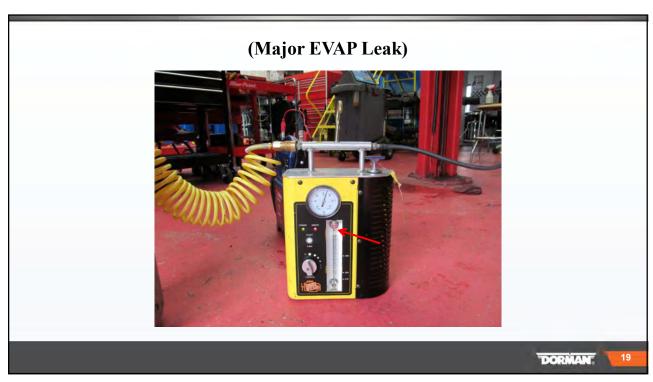


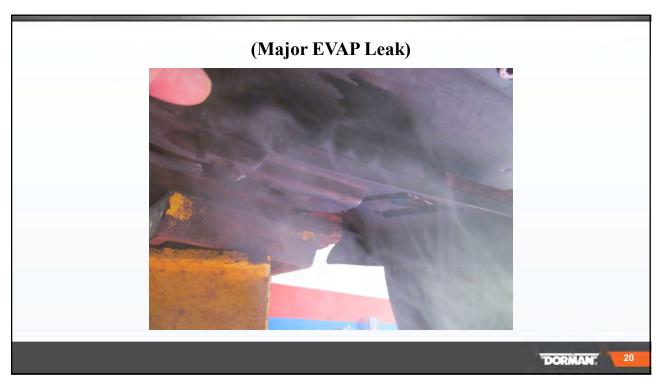


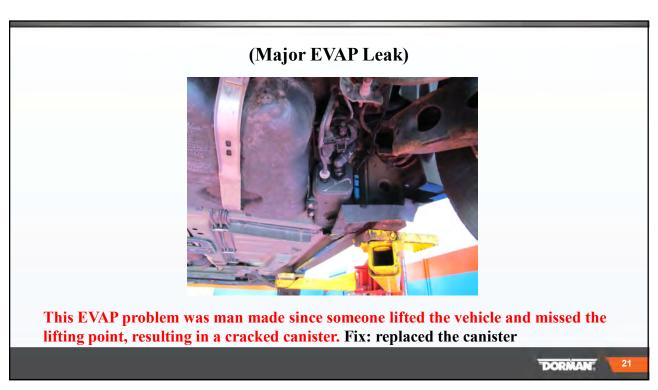


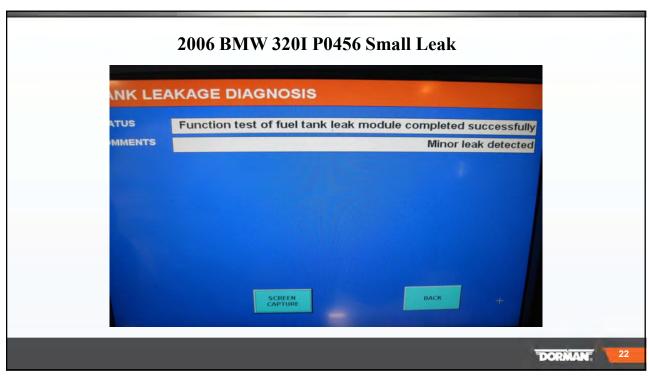














2006 BMW 320I P0456 Small Leak

NK LEAKAGE DIAGNOSIS

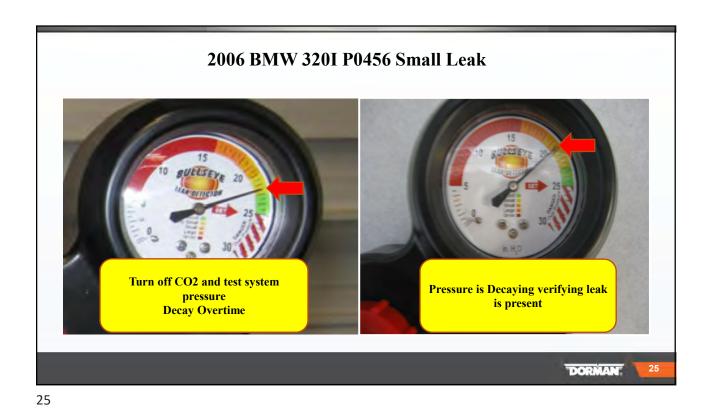
TUS
Function test of fuel tank leak module completed successfully

Minor leak detected

Retested And Confirmed A Small Leak Is Present

SCREEN
CAPTURE

DORMAN: 24

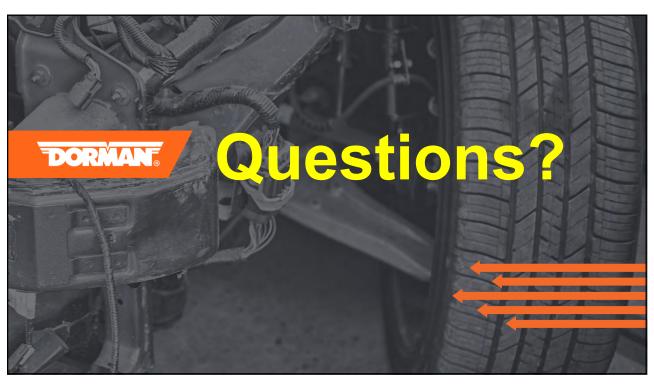


2006 BMW 320I P0456 Small Leak

Use Bullseye Leak Detector to find location of leak

After Spraying The Bullseye Form A Leak Was Confirmed At the DMTL Electric Connector.





We offer greater freedom to fix cars and trucks by engineering exclusive, labor-saving and cost-effective repair solutions.

Thank You!

DORMAN