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Case Number: **S2025000004**

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Symptom/Vehicle Issue: Customer complains of the MIL lamp on. Technician observes DTC P0456 EVAP System Small Leak or P0455 EVAP System Large Leak detected set in PCM.

Discussion: When performing the analysis for P0456 and P0455, need to run the wiTECH SLVT. After a confirmation of leakage is detected during the wiTECH SLVT, perform the EVAP Small Leak Verification test using the EELD 8404C smoke/air machine. When performing the wiTECH SLVT or using the EELD smoke/air machine do not remove the original gas cap for determining if an EVAP leakage is occurring. Using the EELD 8404 Accessory Tool shown in figure 1 in place of the gas cap could mask the EVAP leakage due to size of o-ring on the Accessory Tool.

Fig. 1

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By using the EELD 8404 Accessory Tool shown in figure 1, the leakage was not detected from the Fuel Filler Tube with a gouge in the sealing area of the Gas Cap, as shown in Figure 2.

Fig. 2

Follow the Service Diagnostics for P0456 and P0455 to properly analyze the leak. For determining if the leakage is occurring in the gas cap area follow the directions in the *FUEL TANK SIDE EVAPORATIVE EMISSION LEAK DETECTION* section by setting the smoke switch on and connecting to the canister tube.

If leakage is detected in the gas cap – fuel filler tube area, check for proper tightness of the gas cap. If the gas cap was properly tightened, then remove the gas cap and check for a damaged o-ring or misplaced o-ring. Also, check for gouging or paint chips in the sealing area of the fuel filler tube that could lead to EVAP leakage.

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