



Preliminary Information

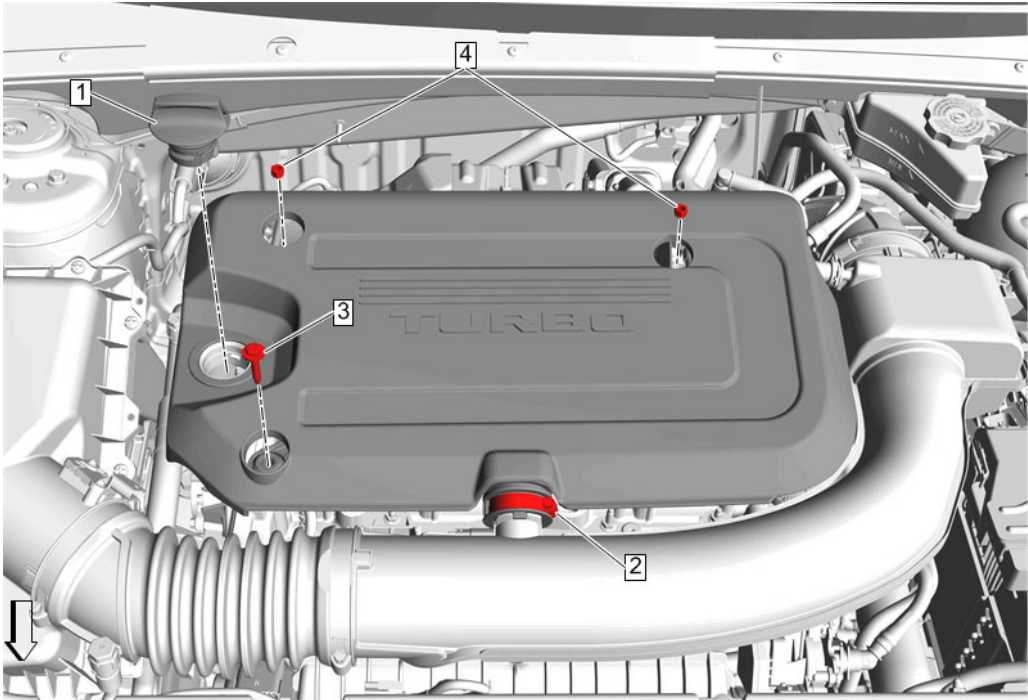
PIP5634 Malfunction Indicator Lamp (MIL) Illuminated - DTC P0496 Set

Models

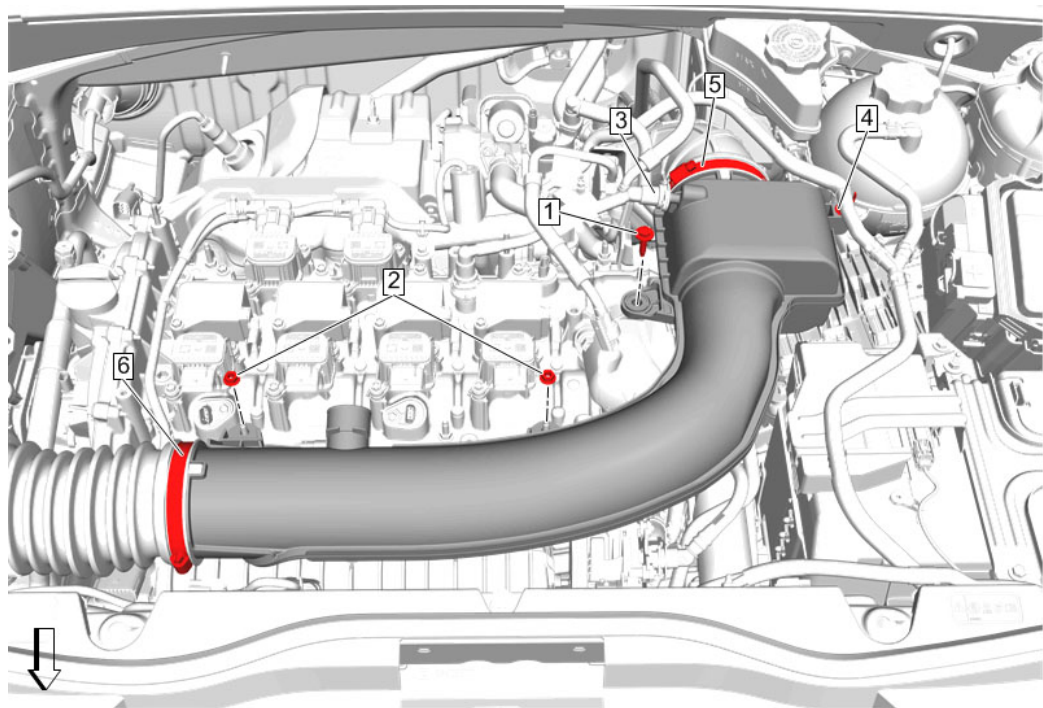
Brand:	Model:	Model Years:	VIN:		Engine:	Transmissions:
			from	to		
Cadillac	XT4	2019	All	All	2.0L (LSY)	All

Involved Region or Country	North America
Condition	Some customers may comment that the MIL is illuminated. Some technicians may find DTC P0496 (Evaporative Emission (EVAP) System Flow During Non-Purge) set in the Engine Control Module (ECM).
Cause	This condition may be caused by a purge system air leak.
Correction	Perform SI diagnostics first. --If nothing is found, perform the following Service Procedure for air leak checks.

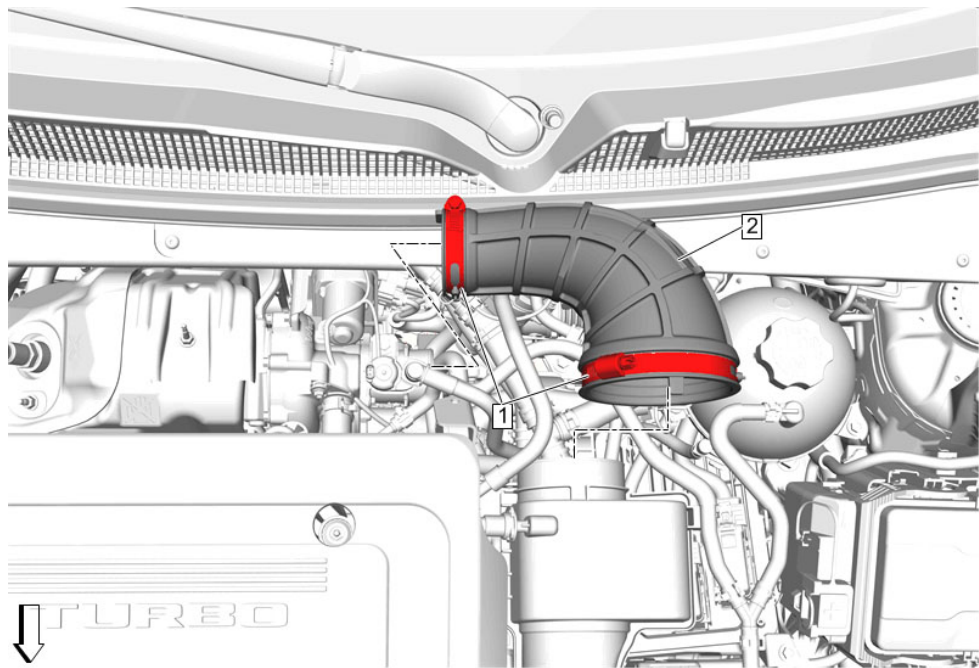
Service Procedure:



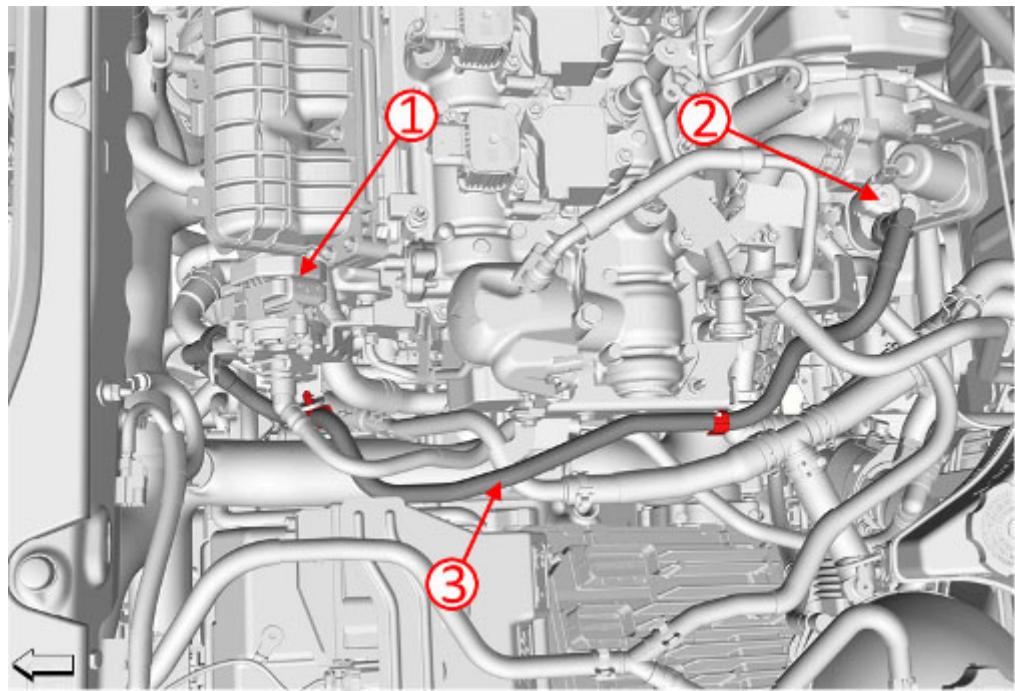
1. Remove the Air Cleaner Outlet Resonator.



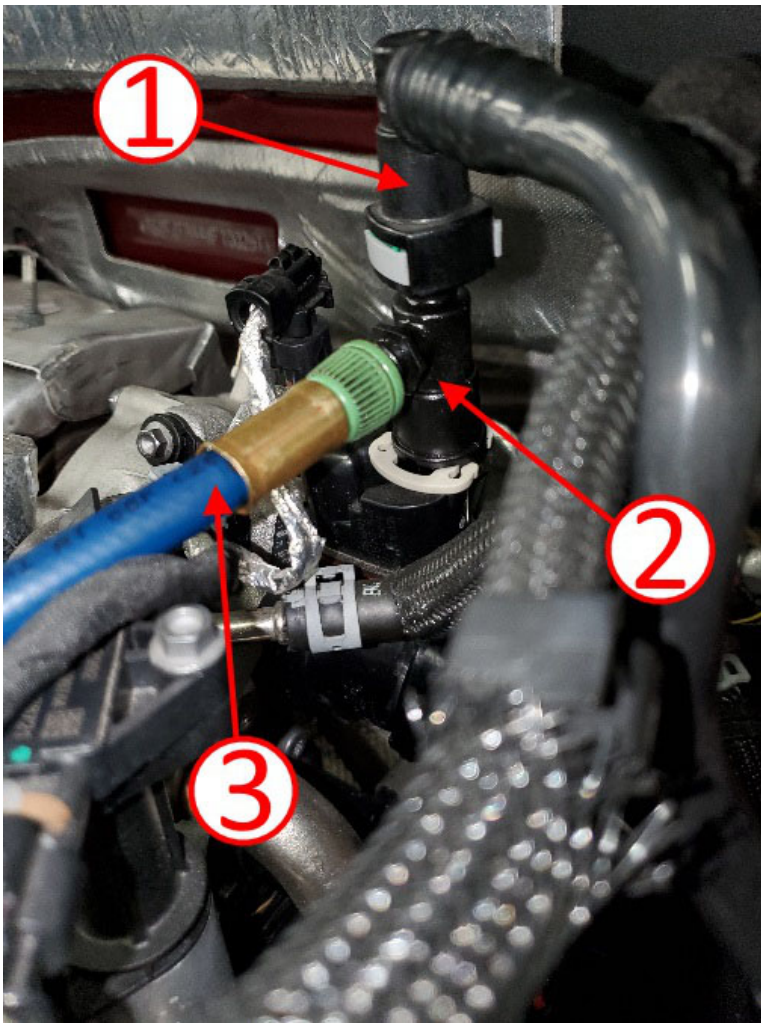
2. Remove the Air Cleaner Outlet Intermediate Duct.



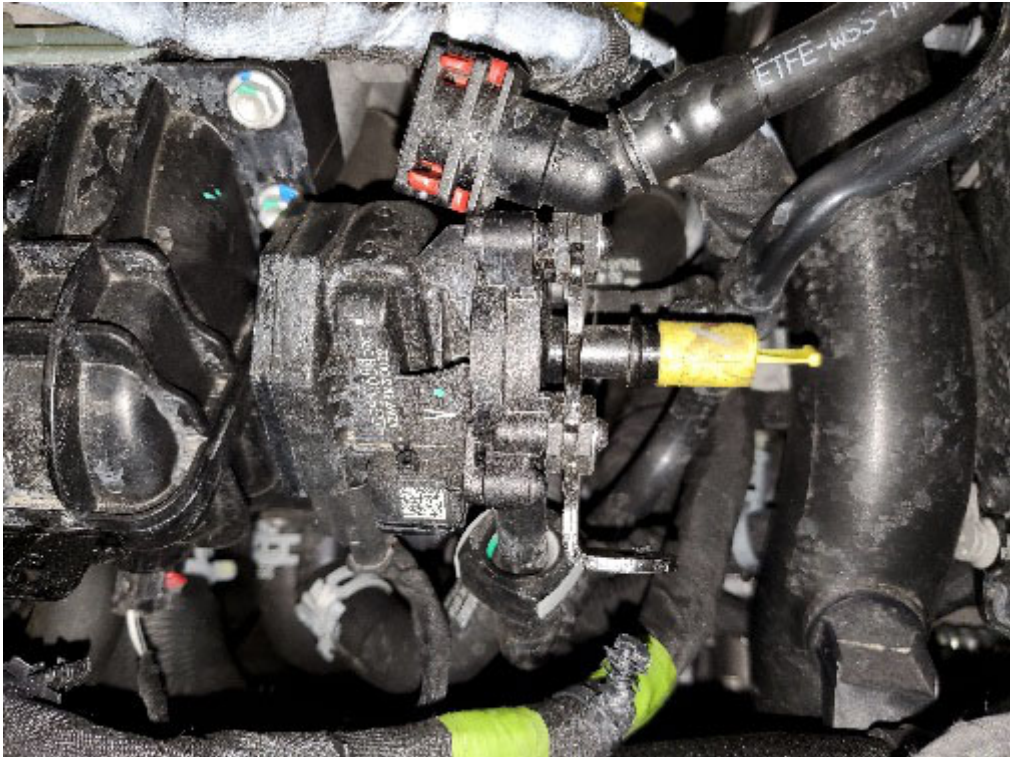
3. Remove the Turbocharger Outlet Duct Connector.



4. Separate the purge tube (3) at the purge valve (2).



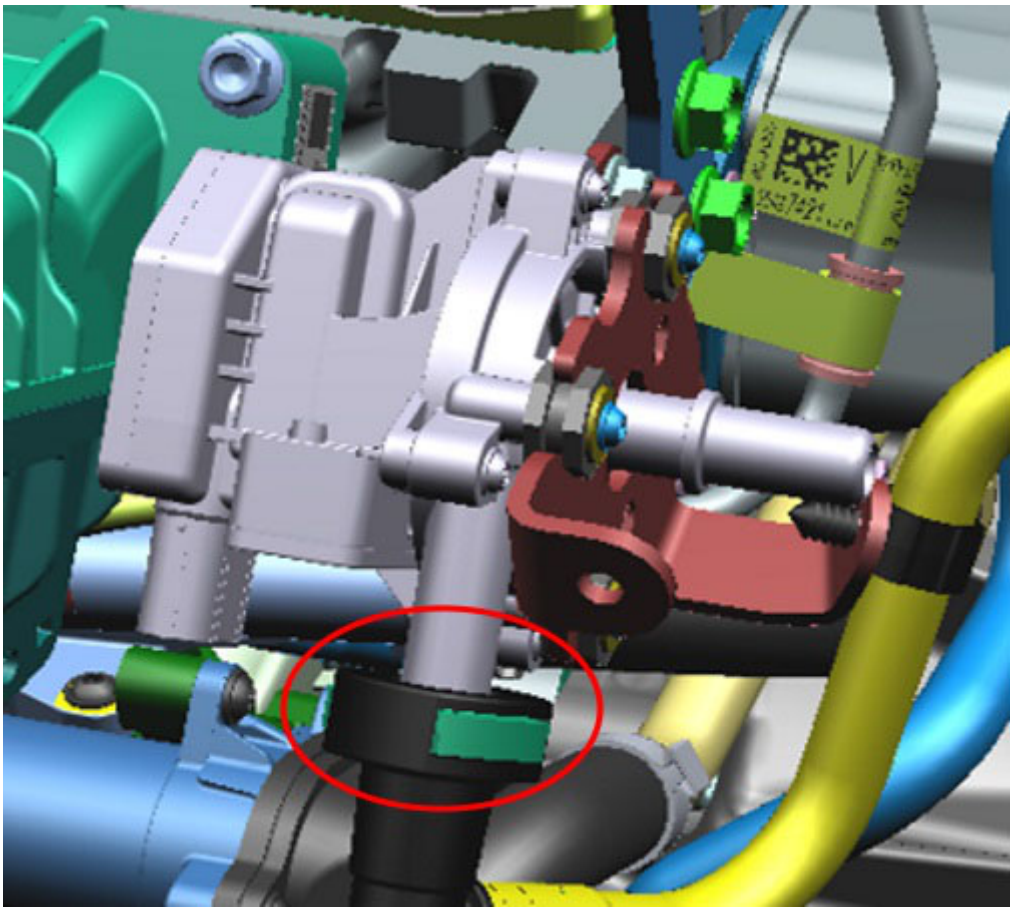
- 5. Install the T-fitting (2) supplied with the smoke machine.
- 6. Install the purge tube (1) and the smoke machine hose (3) to the fitting.



- 7. Separate the Evaporative Emission Front Pipe from the pump.
- 8. Install a plug onto the pump.
- 9. Turn the smoke machine On.
- 10. Look for a leak in the purge pump body (internal o-ring):

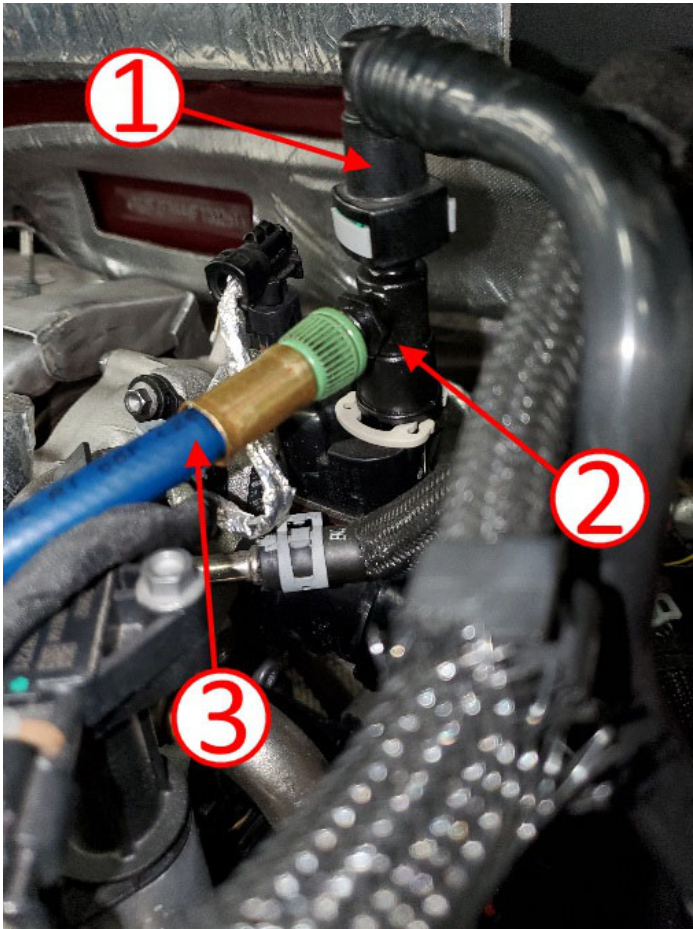
Leak found?

- Yes-Replace pump if leak is observed at the pump. Refer to Evaporative Emission Canister Purge Pump Replacement in SI.
- No-Go on to next step.



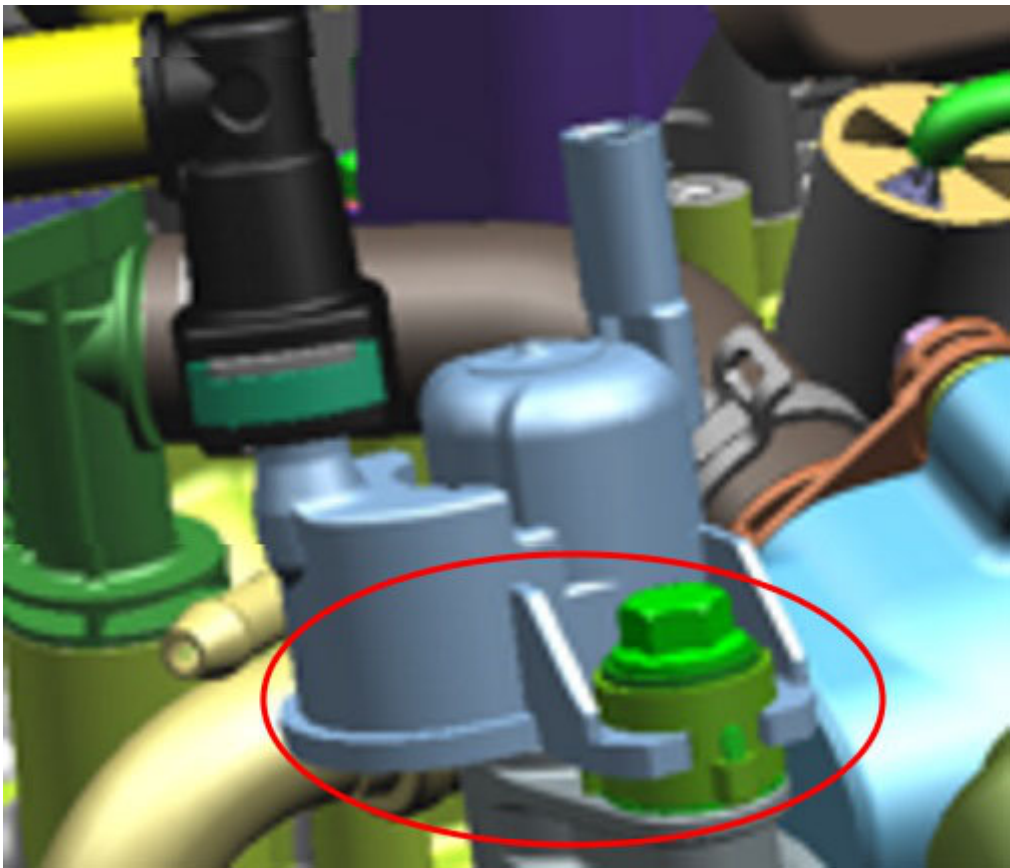
11. Look for a leak at pump to tube connector (o-ring):

- Leak found?
- Yes-Remove/Replace tube and inspect/replace if damaged. Refer to Evaporative Emission Canister Purge Tube Replacement in SI.
 - No-Go on to next step.



12. Look for leak at the purge tube (1) to T-fitting (2):

- Leak found?
- Yes-Remove/Replace tube and inspect/replace if damaged. Refer to Evaporative Emission Canister Purge Tube Replacement in SI.
 - No-Go on to next step.



12. Look for leak between purge valve and adaptor:

IMPORTANT: If a leak is coming from between the valve and the adaptor. Do Not separate.

- Yes-Remove/Replace valve and adaptor assembly.
- No-Go on to next step.



14. Look for an internal valve leak past the valve O-ring into the adaptor, DO NOT REMOVE valve from adaptor:

Leak found?

Important: If a leak is coming from the valve into the adaptor. Do Not separate.

- Yes-Remove/Replace valve and adaptor assembly.>
- If no electrical or air leak was found clear codes and return the vehicle to the customer.

- 15. Install the Turbocharger Outlet Duct Connector.
- 16. Install the Air Cleaner Outlet Intermediate Duct.
- 17. Install the Air Cleaner Outlet Resonator.

Parts Information

Description	Part Number	Quantity
ADAPTER, CHRГ AIR CLR INL AIR HOSE	55497014	1

Warranty Information

For vehicles repaired under the Emission coverage, use the following labor operation. Reference the Applicable Warranties section of Investigate Vehicle History (IVH) for coverage information.

Labor Operation	Description	Labor Time
4086898*	Test and Replace Charge Air Cleaner Inlet Air Hose Adapter and Valve Assembly	1.0 hr
*This is a unique Labor Operation for Bulletin use only.		

Version History

Version	1
Modified	4/1/2019 - Created

