



# Technical Service Bulletin

SUBJECT:		No: <b>TSB-19-14-001</b>	
<b>WATER PUMP COOLANT LEAKAGE: INSPECTION PROCEDURE</b>		DATE: <b>January 2019</b>	
		MODEL: <b>All models</b>	
<b>CIRCULATE TO:</b>	<input type="checkbox"/> GENERAL MANAGER	<input checked="" type="checkbox"/> PARTS MANAGER	<input checked="" type="checkbox"/> TECHNICIAN
<input checked="" type="checkbox"/> SERVICE ADVISOR	<input checked="" type="checkbox"/> SERVICE MANAGER	<input checked="" type="checkbox"/> WARRANTY PROCESSOR	<input type="checkbox"/> SALES MANAGER

## PURPOSE

This TSB contains supplemental information with a coolant leakage inspection procedure to prevent unnecessary replacement of the water pump.

## BACKGROUND

Replacement of water pumps has been carried out during periodic vehicle maintenance because some coolant leakage is found in the vicinity of the steam vent hole or the water drain hole. However, this replacement is usually unnecessary because it is normal that steam or mist passes through the mechanical seal, which is used to seal the rotating shaft portion of the water pump.

The steam or mist that passes through the mechanical seal escapes from the steam vent hole or the water drain hole and does not affect the seal performance.

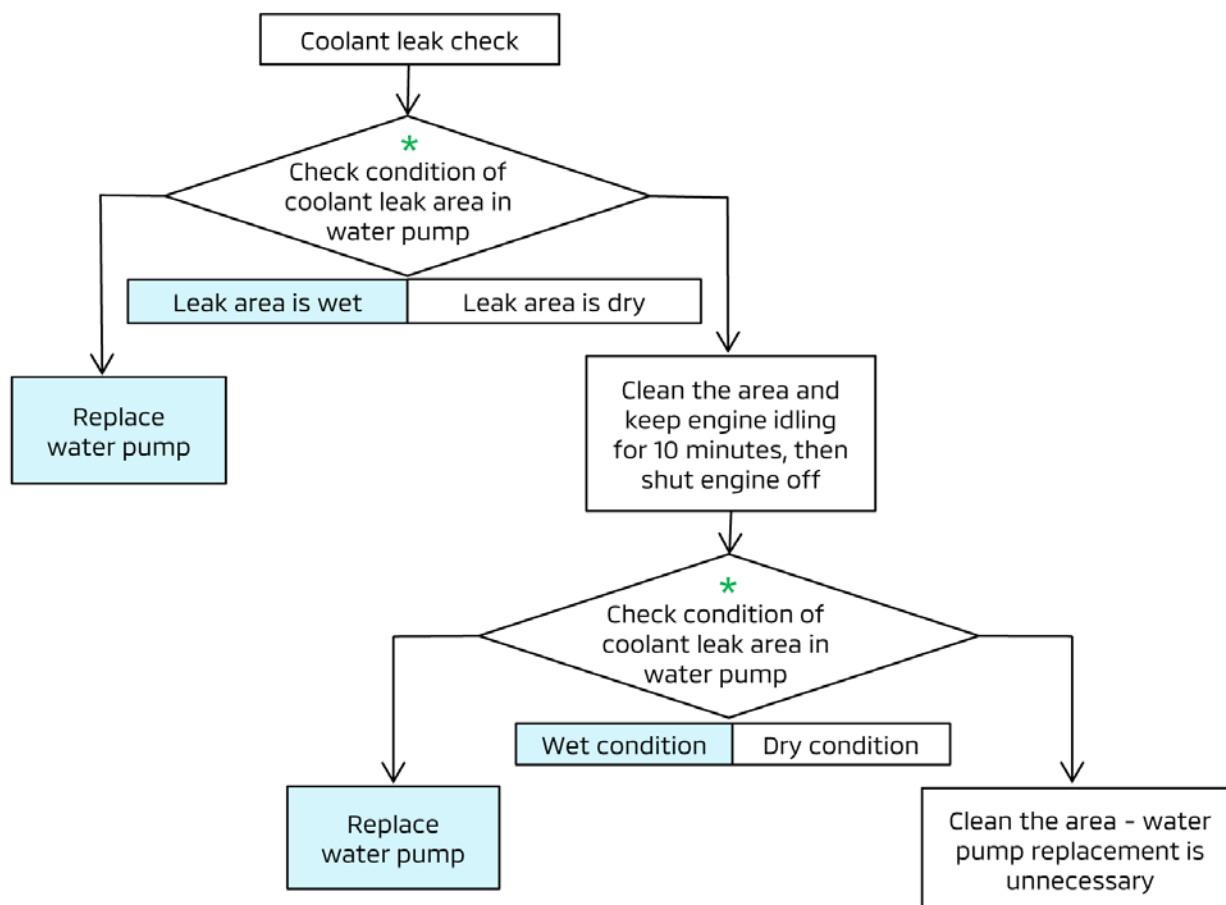
## AFFECTED VEHICLES

All models and model years.

## INSPECTION PROCEDURE

Refer to the Inspection Procedure that follows when coolant leakage is discovered near the steam vent hole or the water drain hole to determine if replacement of the water pump is necessary or not.

**Inspection Flow When Coolant Leak Is Found During Periodic Maintenance**

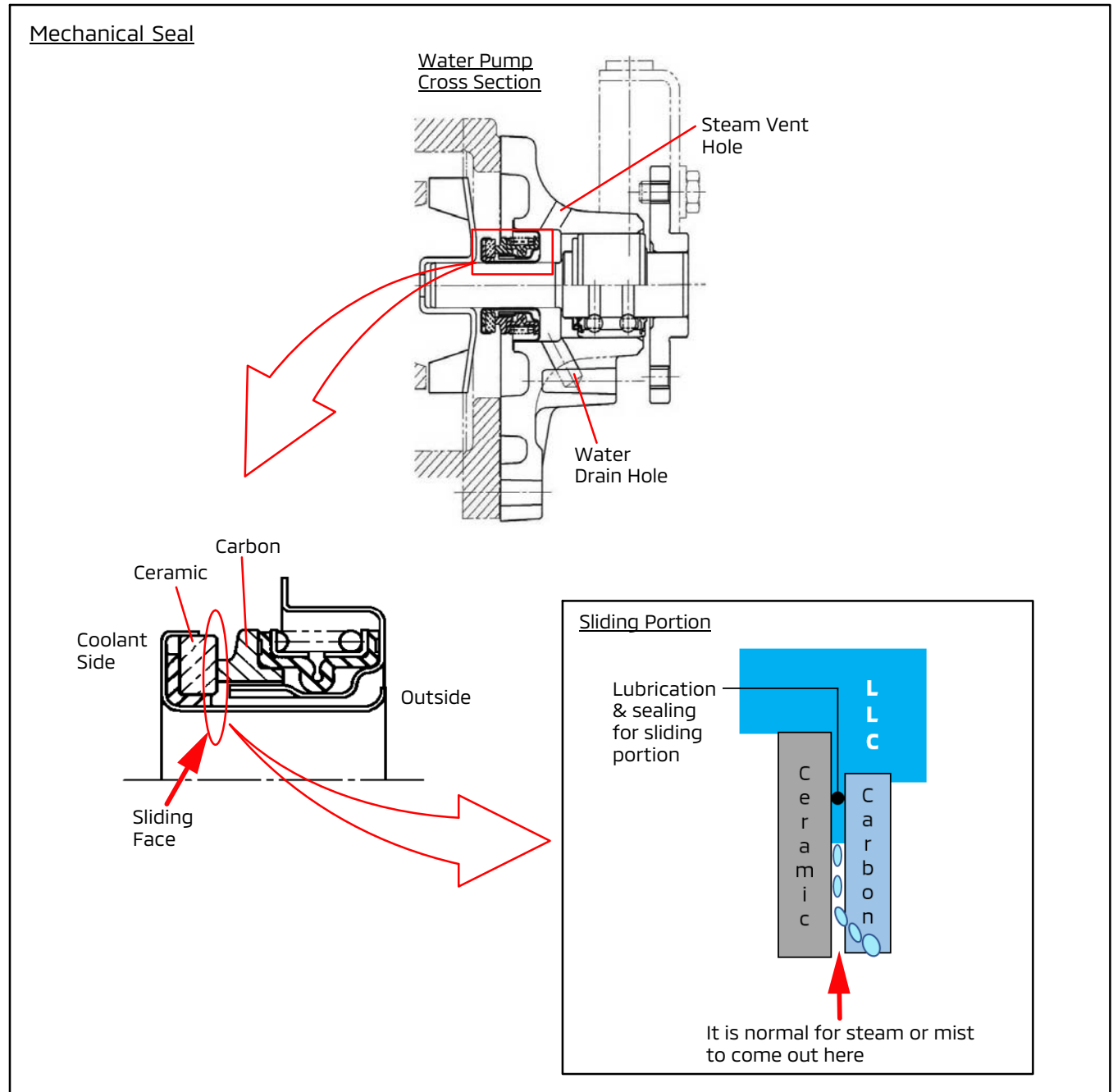


\* Checking Method

1. If water drain hole is visible:  
Confirm there is a leakage mark under the drain hole.
2. If water drain hole is **not** visible:  
Confirm there is a leakage mark on underside of water pump.  
(whether water pump is visible or not)

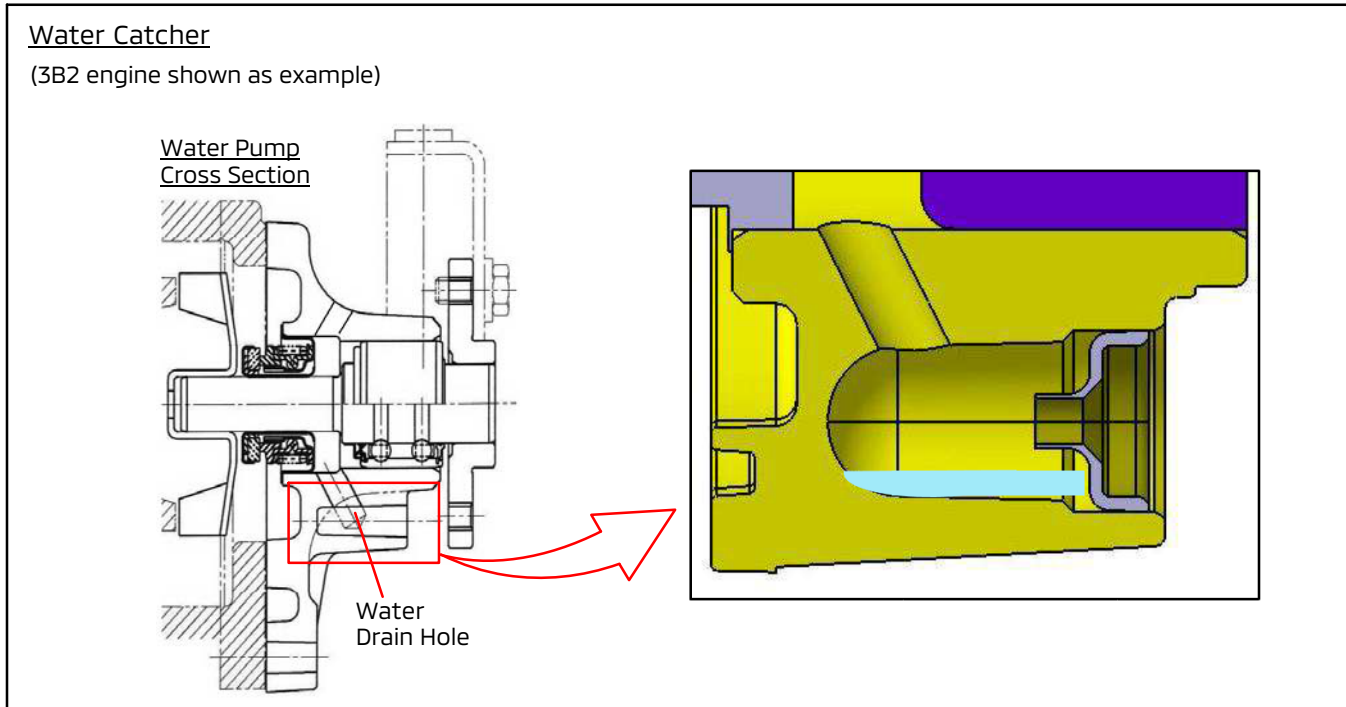
## Mechanical Seal

The water pump rotating shaft portion is sealed with a mechanical seal. Due to its structure, steam or mist escapes to the outside under normal conditions, and is sometimes misjudged to be coolant leakage.



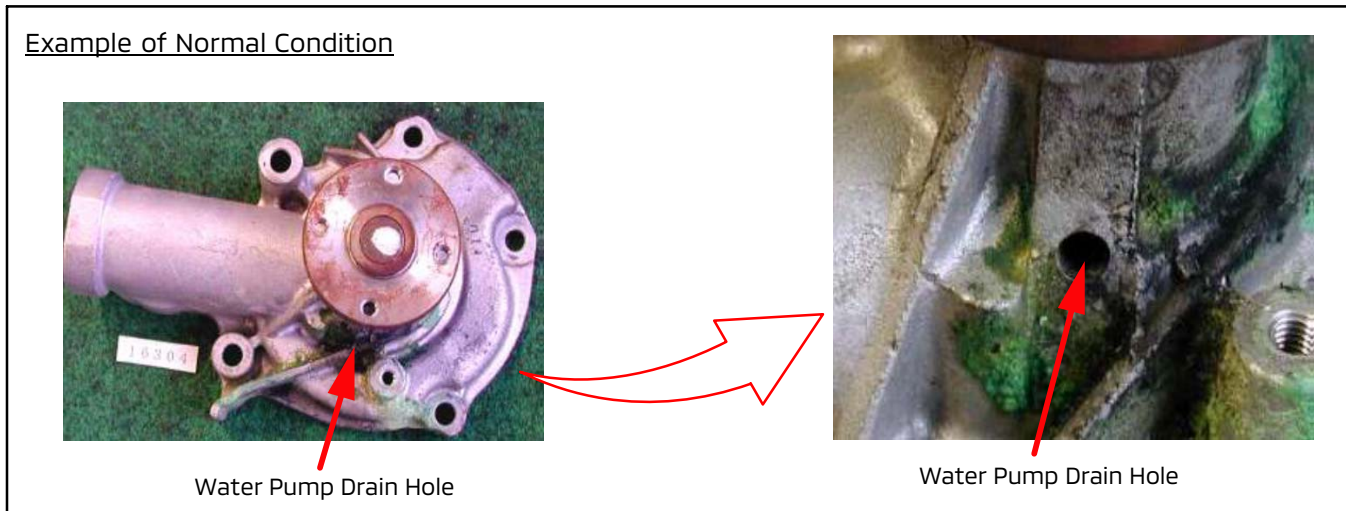
### Water Catcher

On some engines, a water catcher is provided to prevent water leakage from the drain hole (as shown below). In this case, it could be considered abnormal if a wet water leakage mark is identified around the drain hole. **Refer to "Inspection Flow When Coolant Leak Is Found During Periodic Maintenance" earlier in this TSB.**



### Normal Condition

The photos below show an example of a normal condition of coolant leakage residue.



### WARRANTY INFORMATION

This bulletin is supplied as technical information only and is not an authorization to repair. If an affected vehicle is reported with the described condition, diagnose the condition, repair as described in this bulletin and submit a normal warranty claim.