

# Technical Service Bulletin

Mazda North American Operations  
Irvine, CA 92618-2922



<b>Subject:</b>  WATER PUMP COOLANT LEAK	<b>Bulletin No.:</b> 01-022/19
	<b>Last Issued:</b> 12/13/2019

## BULLETIN NOTES

This bulletin supersedes the previously issued bulletin(s) listed below: The changes are noted in Red.

Previous TSBs:	Date(s) Issued:
01-016/16	08/26/2016
01-004/09	02/03/2009

## APPLICABLE MODEL(S)/VINS

2020 CX-30  
2016-2020 CX-3  
2013-2020 CX-5  
2007-2012 CX-7  
2016-2020CX-9  
2004-2005 Miata  
2006-2020MX-5  
2004-2020Mazda3  
2006-2015 Mazda5  
2003-2020Mazda6

## DESCRIPTION

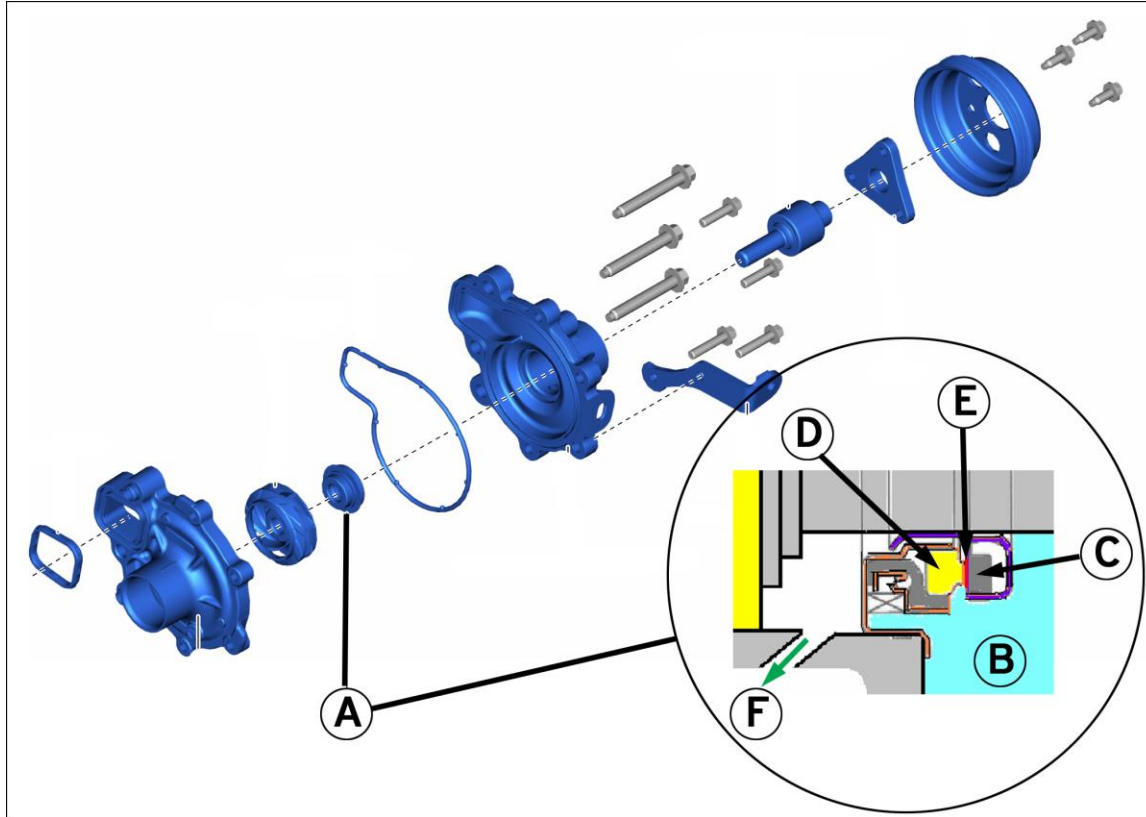
There is a concern that some water pumps are being replaced that are not faulty, due to signs of a very small coolant leak from the bleed hole. This Service Bulletin is to inform you about the water pump sealing mechanism and the criteria if replacement is necessary or not.

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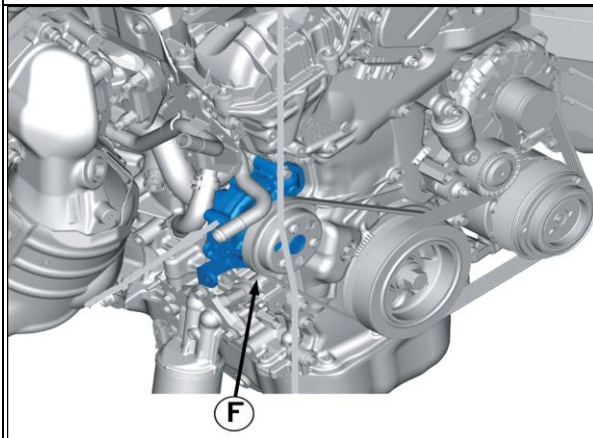


A mechanical seal (A) is used for the water pump. This mechanical seal can seal coolant (B) by sliding a mating ring (C) against a seal ring (D). When the sliding surface temperature of the mechanical seal is more than 248 °F (120 °C) while driving, a small amount of steam (E) is leaked and bleeds through the bleeding hole (F). After drying, the steam leaves a green coolant deposit near the water pump bleed hole (F). This is a normal condition and does not require water pump replacement. The water pump should only be replaced if there is an accumulation of crystallized coolant near the bleed hole.

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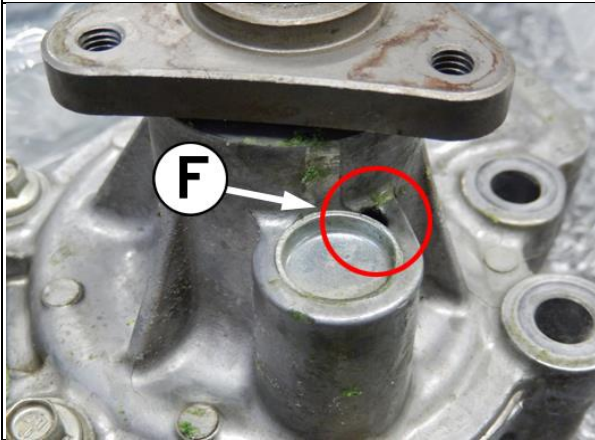





Bleed hole (F) is located under water pump



Dried coolant steam shows as green-color deposit at bleed hole



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Water Pump Samples:	
GOOD	NO GOOD
No accumulation of crystallized coolant. <b>DO NOT</b> replace the water pump.	Accumulation of crystallized coolant near the bleed hole (F). Replace the water pump.
	
	
	

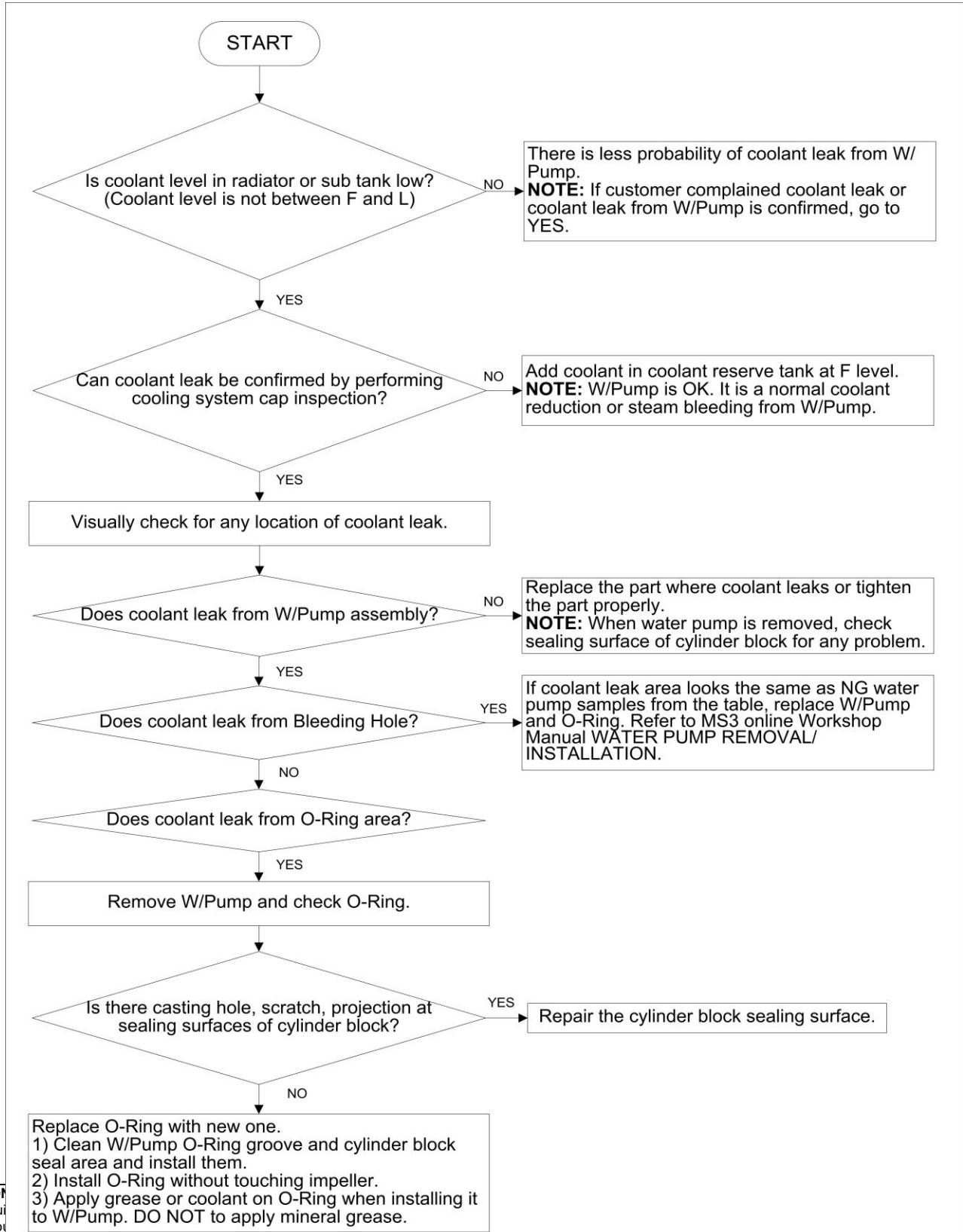
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## REPAIR PROCEDURE

1. Verify customer concern.

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2. Verify repair.

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