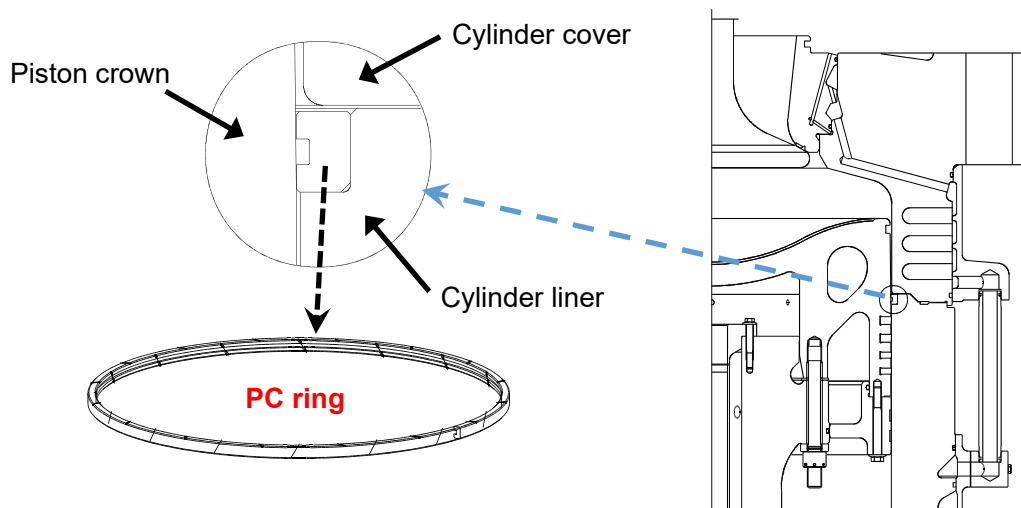


for MITSUI—MAN B&W engines, New replacement criteria of PC ring		No.108	
		APPROVED	H.Sakamoto
		CHECKED	Y.Ishida
		PREPARED	I.Tanaka
ENGINE TYPE	All	DATE	9 June 2020

We would like to introduce the new replacement criteria of Piston Cleaning (PC) ring.

The PC ring is aimed at keeping good cylinder condition by preventing accumulation of deposits on the piston crown. Please refer to the table on next page for the new criteria.



As shown in Figures A and B on the next page, the gasket mounting position depends on the engine type. Previously, we have provided guidance to remove the PC ring in case of A, or to install the dummy ring in case of B, when the wear amount of the cylinder liner exceeds 0.2% of the cylinder diameter. From now, we recommend not operating the main engine with the PC ring removed for A or with the dummy ring installed for B, with the exception that the PC ring is cracked or broken, in order to prevent scuffing due to bore-polish.

PRIORITY			
IMMEDIATELY <input type="checkbox"/>	AT FIRST OPPORTUNITY <input checked="" type="checkbox"/>	WHEN CONVENIENT <input type="checkbox"/>	OTHERS <input type="checkbox"/>

Mitsui E&S Machinery Co., Ltd.

Technical Group

Diesel Engine Service Department

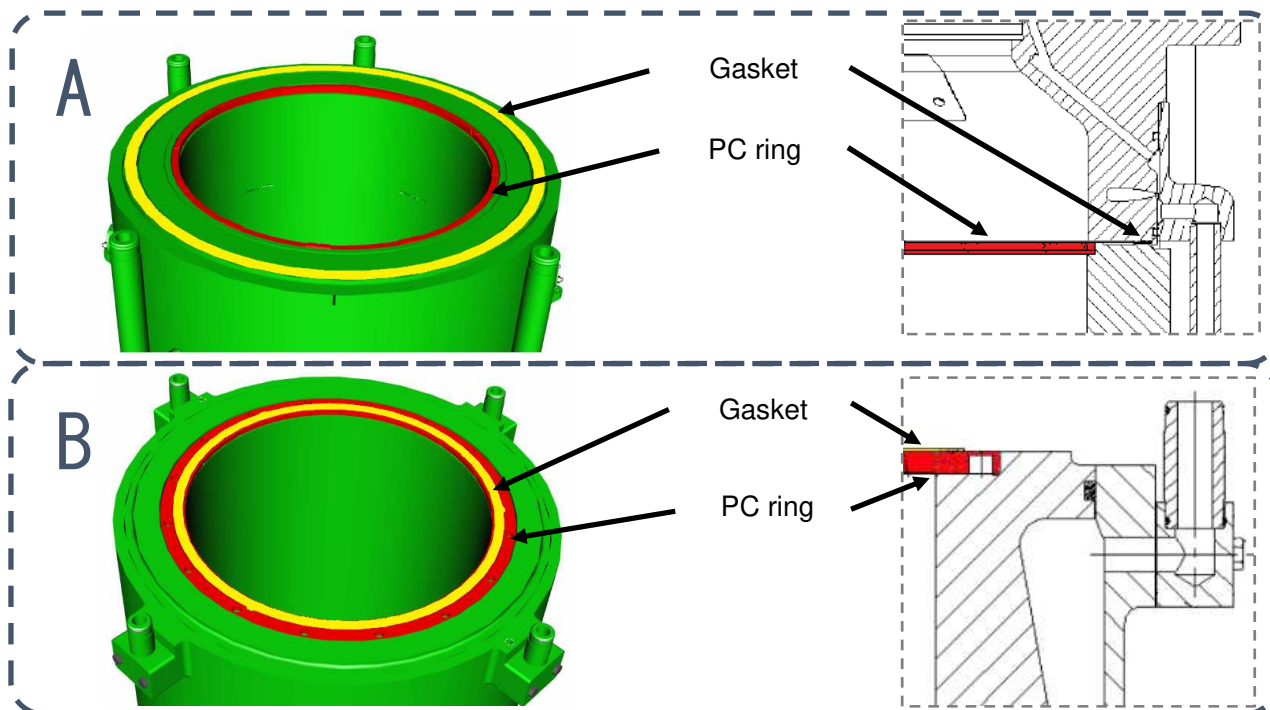
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= The relation between PC ring[231F-66] and Gasket[231F-15] ([]: REG No.) =

If the PC ring is undamaged, it is possible to continue using the PC ring at the original position in the future. When removing the PC ring, make sure to mark the position on the cylinder liner and PC ring to allow fitting of the PC ring in the same position as it is worn together with the cylinder liner. After mounting the PC ring, confirm there is no contact between PC ring and piston crown by operating the turning gear both clockwise and counterclockwise around TDC.

In the case that the PC ring is cracked or broken, please note the following:

- If the cylinder liner wear is below 0.1% of the nominal diameter, replace the PC ring with a new standard PC ring.
- If the cylinder liner wear is above 0.1% of the nominal diameter, replace the PC ring with a new oversized PC ring. When ordering an oversized PC ring, please inform us of the actual data for cylinder liner wear (measured).

Table : Replacement criteria of PC ring

	<u>New criteria</u>		Old (reference only)		
	Install based on cyl liner wear if PC ring is damaged		Install based on cyl liner wear		
Liner wear	$\leq 0.1\%$	$0.1\% <$	$\leq 0.1\%$	0.1-0.2%	$0.2\% <$
In case A	Standard	Oversized	Standard	Oversized	No PC ring
In case B			Standard	Oversized	Dummy ring

For any inquiries, please contact the sales representative with reference to Service Note No.111.