

**PARTS & SERVICE
NEWS**

REF NO.	AT00009
DATE	Feb. 28, 2000

(C)

Page 1 of 5

SUBJECT: ADDITION OF DUST COVER FOR FRONT SEAL ON S(A, AA)6D170**PURPOSE:** To introduce modification procedures to supplement a dust cover to the front seal of S(A,AA)6D170 engines

APPLICATION: D275A-2 Bulldozers
D375A-3 Bulldozers
WA600-3 Wheel Loaders
WD600-1 Wheel Loaders
WA700-3 Wheel Loaders
PC1100-6 Hydraulic Excavators
HD465-5 Dump Trucks

Serial Nos. Refer to page 5.

FAILURE CODE: A24010**DESCRIPTION:**

1. Introduction

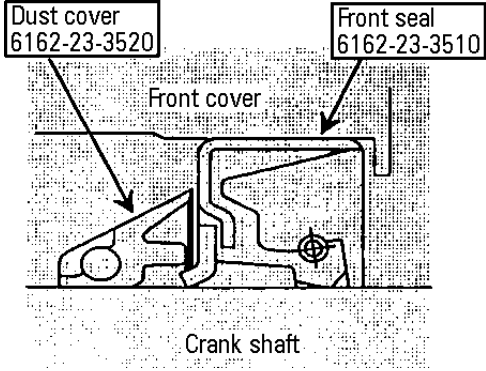
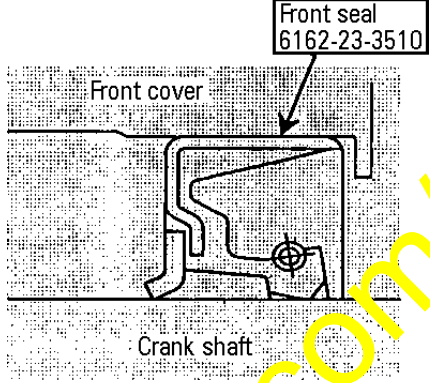
Oil may leak through the front seal of the construction machinery spec. S(A, AA)6D170 engines as a result of external dust being caught in the seal.

Implement the modification being introduced in this Service News to repair or to prevent occurrence of the aforesaid failure.

2. List of parts

Part No.	Part Name	Purpose of part	Q'ty	Remarks
6162-23-3520	Cover	Additional	1	Supplement this part when changing the front seal.

3. Contents of the modification

New structure	Current structure
 <p>The diagram shows a cross-section of the new structure. A dust cover (6162-23-3520) is positioned to shield the sliding surface of the front seal (6162-23-3510). The front cover and crank shaft are also labeled.</p>	 <p>The diagram shows a cross-section of the current structure. It features a front seal (6162-23-3510) on the crank shaft, but lacks the dust cover. The front cover is also labeled.</p>
<p>The dust cover 6162-23-3520 has been supplemented.</p>	

The dust cover(6162-23-3520) has been supplemented to shield the sliding surface of the front seal from external dust.

<https://hespareparts.com/>

4. Modification procedures

(Refer to the Shop Manual regarding the basic work procedures.)

4-1 Remove the front seal through which oil is leaking.

- ※ When doing the above, pay attention not to harm the crank shaft.
- ※ Remove burrs and fins from the end face edge of the crank shaft using emery paper.

4-2 Install the new front seal at a position 5 mm ahead, toward front, of the location of the old front seal. (This is in order not to allow the new seal overlap the wear mark made by the old seal on the shaft.)

Using the push-tool (795-902-1430), after inserting a 5 mm spacer between the push-tool and the crank shaft, press-fit the front seal into inside of the front cover or the trunnion. (Refer to Fig. 1.)

To press-fit the front seal, tighten the 3 bolts (01050-32235) evenly.

Meanwhile, apply about 5 cc of lithium grease (G2-L1) evenly over the seal lip section.

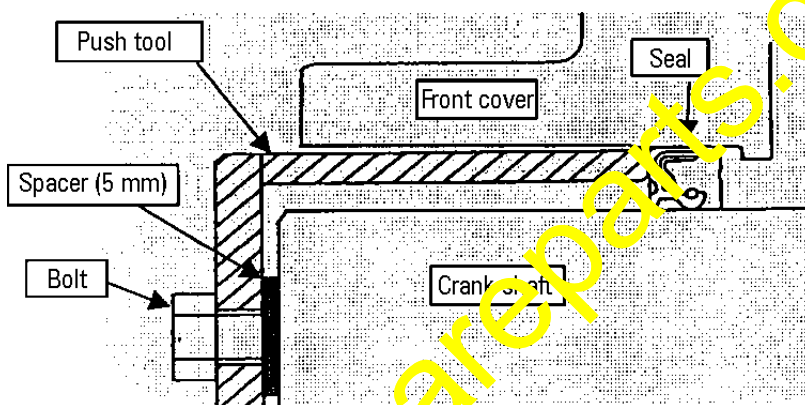


Fig. 1

4-3 Install the dust cover (6162-23-3520) according to the designation given in Fig. 2 below.

When doing this, lightly apply engine oil on the mating surface to the shaft of the dust cover (on the internal peripheral surface of the cover) before manually pushing the cover as far as it goes over the crank shaft.

Then, make the final positioning relevant to the seal using a positioning jig.

As for the positioning jig, fabricate it referring to Fig. 3.

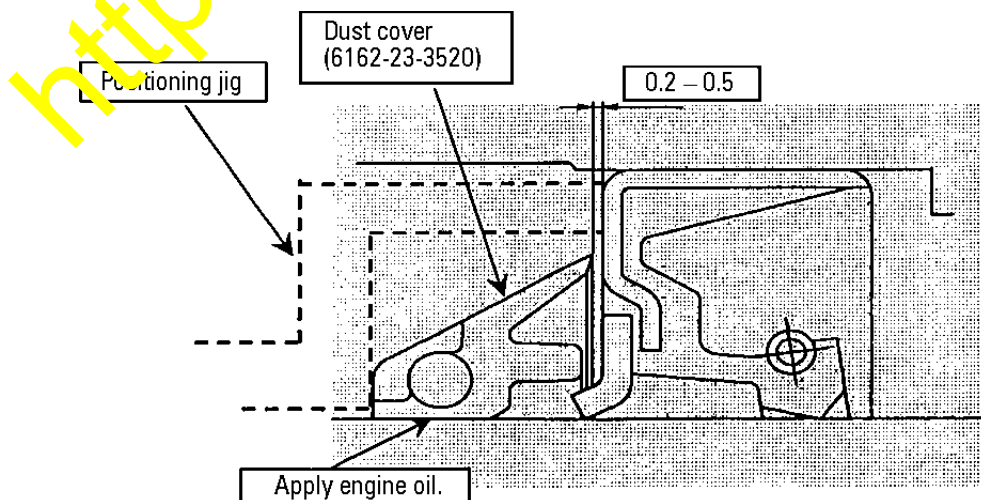


Fig. 2

Positioning jig (Reference drawing)

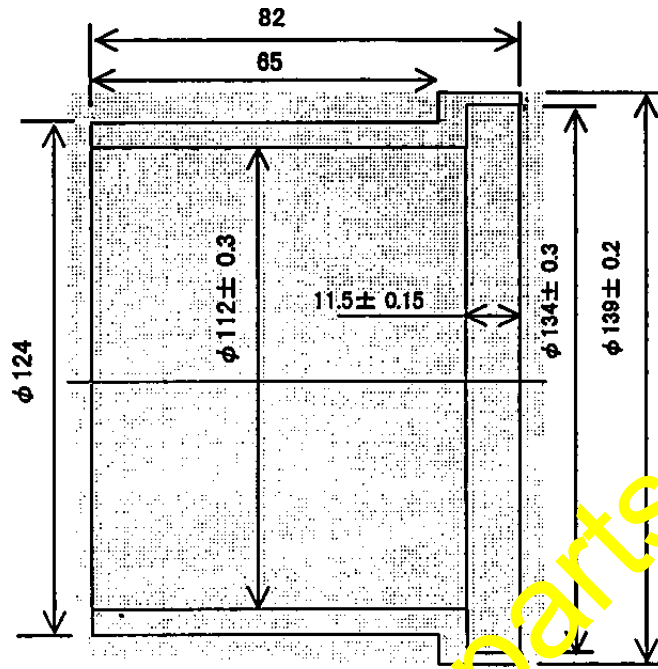


Fig. 3

Check list for the serial numbers of the applicable machines

No.	Applicable machine models	Serial numbers of the applicable engines		Starting from	Serial numbers of the applicable machines	
		Already shipped engines	Engines being shipped newly from the factory		Already shipped machines	Machines being shipped newly from the factory
1	D275A-2	#20001 – #20329	– #20357	1/12	#10001 – #10336	#10337 –
2	D375A-3	#20001 – #20296	– #20348	1/6	#10001 – #17609	#17610 –
3	WA600-3	#20001 – #20333	– #20353	1/11	#50001 – #50194	#50195 –
4	WD600-1	#20001 – #20222	– #20400	1/12	#10001 – #10148	#10149 –
5	WA700-3	#20001 – #20242	– #20360	1/12	#50001 – #50022	#50023 –
6	PC1100-6	#20001 – #20324	#20351 –	1/8	#10001 – #10160	#10161 –
7	HD465-5	#20001 – #20322	#20349 –	1/8	# 4001 – # 4794	# 4795 –
8	HD605-5	#20001 – #20276	From the next production		# 1001 – # 1083	# 1084 –

<https://hespareparts.com/>