COMPONENT CODE A2

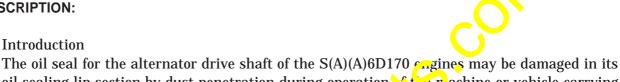
PARTS & SERVICE	REF NO.	AT98174
NEWS	DATE	Sep. 11, 1998
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- SUBJECT: IMPROVEMENT ALTERNATOR DRIVESHAFT OIL SEAL ON S(A)(A)6D170 ENG.
- **PURPOSE:** To introduce modification procedures to remedy oil leakage occurring through the oil seal for the alternator drive shaft of the S(A)(A)6D170 engines.
- Refer to page 7 **APPLICATION:**

FAILURE CODE: A26210

DESCRIPTION:

1. Introduction



oil sealing lip section by dust penetration during operation \bigvee the plachine or vehicle carrying the engine, resulting to occurrence of an oil leakage.

When such an oil leakage is found to be occurring, import the modification intrduced in this Service News to remedy the failure.

- Part No. Part Name Purpuse of part Remarks Q'ty 6162-63-1702 Case ass'y Replacement Replace the case assembly (6162 - 63 - 1701)(Case ass'y only when deemed necessary. 07000-62095 1 Consumable part -ri 07000-01009 O ring 1 Consumable part 6162-63-1682 Seal Replacement 1 This replacement part is (6162-63-1681) (1)(Seal) not necessary when replacing the case assembly.
- 2. List of parts

3. Contents of the modification

1) Oil seal

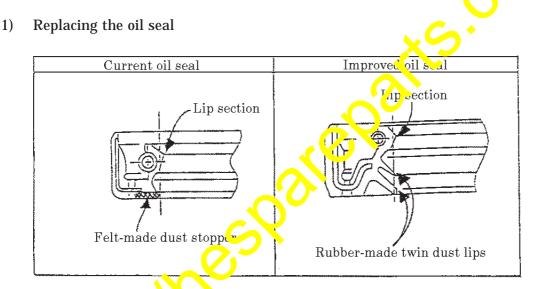
Although the current oil seal is being equipped with a felt-made dust stopper to prevent entry of external dust into the lip section of the oil seal, when muddy water penetrates into the felt dust stopper, the felt sets to deteriorate its dust stopping function.

With the improved oil seal, rubber-made twin dust lips are being employed to prevent entry of dust, thus improving the capacity to check entry of dust.

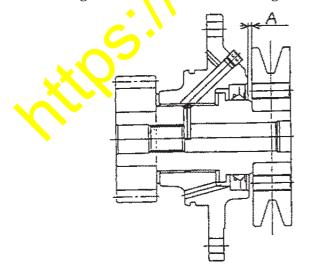
2) Alternator drive housing

When using the improved oil seal, the current housing might let the dust lips to run out of the oil sealing face of the shaft, depending on the dimensional deviations of the relevant parts and it is necessary to review the dimensions of the housing.

If the dimension "A" being designated in the schematic diagram given betwhen 3mm or more, the current housing can be used as is. However, when the dimension "A" has been found less than 3mm, it is necessary to replace the alternator drive assentation in whole.



2) Checking the alternation drive housing



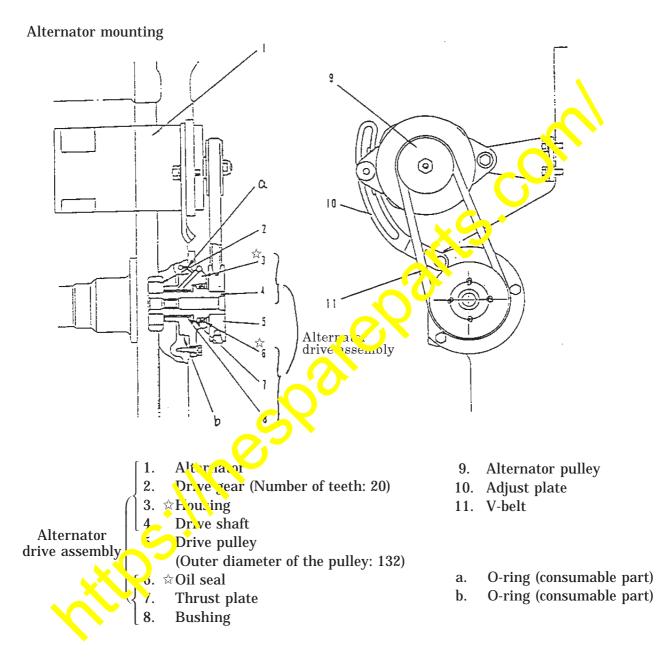
- When the dimension
- 'A" is less than 3mm: → Replace the alternator drive assembly in whole.

When the dimension

- "A" is 3mm or more:
- \rightarrow Replace the oil seal only.

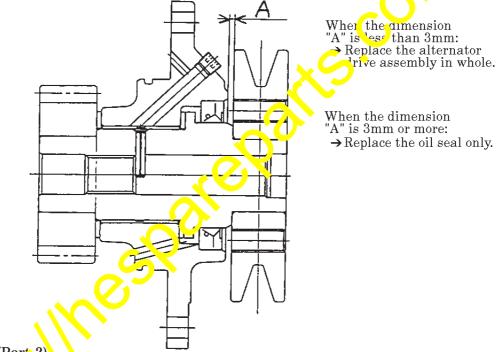
4. Modified sections

Those parts indicated in the schematic diagrams given below which are being marked \thickapprox have been modified.

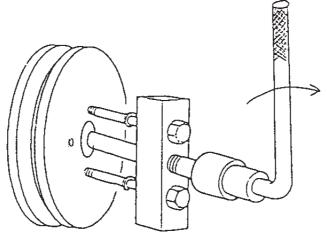


- 5. Modification procedures
 - 1) Disassembly (Part 1)
 - ① Disengage to remove the alternator driving V-belt.
 - ② Remove the alternator drive assembly from the engine body. (By unscrewing its three mounting bolts.)
 - 2) Measuring the dimension
 - Measure the dimension "A" being designated in the schematic diagram given below of the alternator drive assembly:

When the dimension "A" is 3mm or more, replace the oil seal only. When the dimension "A" is less than 3mm, replace the alternator drive as embly in whole.



- 3) Disassembly (Part 2)
 - Pull out to remove the alternator drive pulley.
 When i provide the alternator drive pulley, use a tool like the one illustrated below to remove the pulley making use of the tapped hole (M12) provided in the front surface of the pulley.



② Remove the oil seal.

(This process is not necessary when replacing the alternator drive assembly in whole.) Pull out to remove the oil seal paying attention not to harm the drive shaft and the housing.

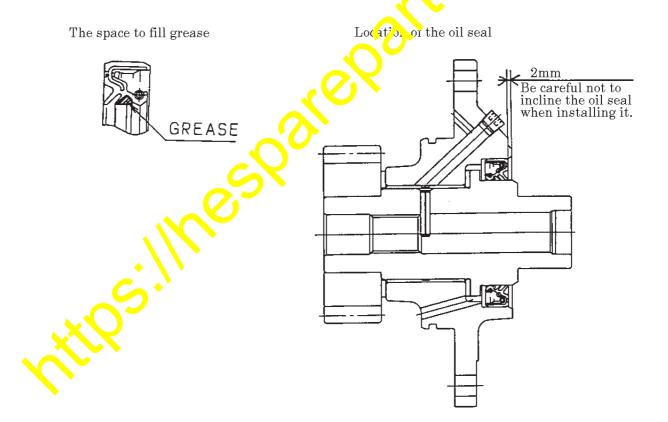
- 4) Reassembly
 - ① Installing the new oil seal (This process is not necessary when replacing the alternator drive assembly in whole.)

Wash the alternator drive housing and alternator drive shaft before installing the oil seal paying attention not to damage the oil seal. When doing this, make sure dust or any other foreign substances are not adhering to the shaft before inserting it to its position.

Meanwhile, be careful not to incline the oil seal when installing i

Also, fill grease (G2-L1 for an equivalent) into the space between the lips before installation. (See the schematic diagram given below.)

Regarding the location of the oil seal, refer to the schematic diagram given below.



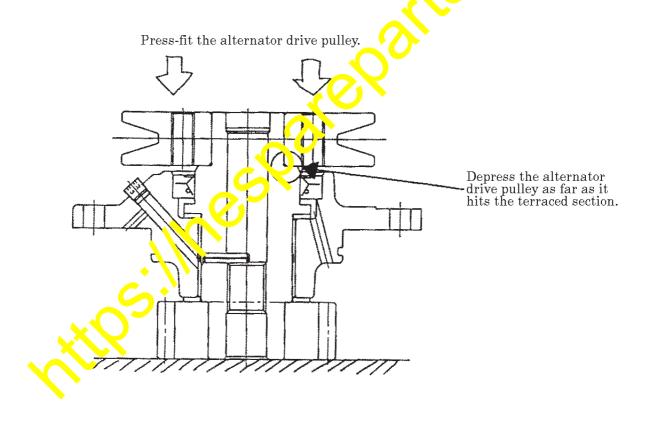
② Installing the alternator drive pulley

Press fit the alternator drive pulley into the alternator drive assembly. When doing this, depress the alternator drive pulley as far as it hits the terraced section of the drive shaft. (See the schematic diagram given below.)

③ Installing the alternator drive assembly Replacing the O-rings (2 units) with new parts, install the alternator drive assembly to its position.

Bolt tightening torque: 59 – 74Nm (6 – 7.5kgm)

④ Installing the alternator driving V-belt Install the alternator driving V-belt and adjust the belt tension accordingly. Adjust the tension so that a flexure by 10 – 15mm may occur when the center point between the drive pulley and the alternator pulley of the V-belt is a pressed by a force of about 58.8Nm (about 6kgm).



		Serial numbers of applicable machines, vehicles and engines				
No. Model names of applicable ma- chines, vehicles		Already shipped machines, vehicles and engines (Yet to be modified)		Machines, vehicles and engines being shipped newly from the factory (Already modified)		
and engines	and engines	Engine numbers	Chassis numbers	Engine numbers	Chassis numbers	
1	HD465-3	- #15256	—	#15257 –	From the next pro- duction and after	
2	HD605-5	- #19208	- 1023	#19209 -	10 <mark>24</mark> –	
3	HD465-5	- #19210	- 4675	#19211 –	4676 -	
4	HD465-3C	- #15256		#15257 –	From the next pro- duction and after	
5	PC1000-1	- #18935		#18936 -	From the next pro-	
6	PC1100-6	- #19145	- 10058	#19218 –	10059 –	
7	WA600-3	- #19223	- 50070	#1922 4 +	50071 -	
8	WA700-1	- #18779	- 10100	#15. (80	10100 -	
9	WA700-3	- #19131	- 5004	#1.244 -	From the next pro- duction and after	
10	WA700-AP-1	- #19128	- 5002	#19129 -	From the next pro- duction and after	
11	BR1600JG-1	- #18953	- 10(01	#18954 -	10002 -	
12	D375A-1	- #17480		#17481 -	From the next pro- duction and after	
13	PC1100-HA-6	- #19019	20039	#19020 -	10040 -	
14	D275A-2	- #19124	– 10296	#19203 -	10297 -	
15	D375A-2	- #18 52	- 16532	#18859 -	16533 -	
16	D375A-3	- / 19110	- 17507	#19119 -	17508 –	
17	A6D170E-WJK-2	# 82.06		#18607 -		
18	A6D170E-W2-2	- #18602		#18603 -		
19	SA6D170-C2-1	- #17636		#17637 -		
20	SA6D170-W1-1	- #17638		#17639 -		
21	SA6D170B-(21 +	- #17635		#17636 -	_	

List of model names and serial numbers of applicable machines, vehicles and engines

