

**PARTS & SERVICE
NEWS**

REF NO.	AT03079
DATE	May 16, 2003

SUBJECT: REPAIR PROCEDURE OF OIL LEAKING FROM DRIVE SHAFT OF INJECTION PUMP ON S (A, AA) 6D140

PURPOSE: To introduce the repair procedure of oil leaking from drive shaft of injection pump on S (A, AA) 6D140

APPLICATION: Refer to page 4.

FAILURE CODE: A7D1AA

DESCRIPTION:**1. Introduction**

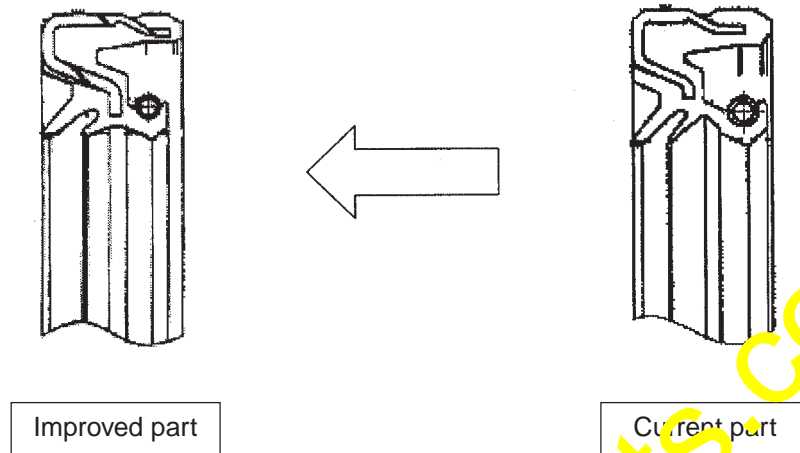
- 1) As for the 6D140 engine, the structure in the case of injection pump drive shaft is no good. Therefore, the excess hydraulic pressure is applied to the rear surface of oil seal, and the oil may leak.
- 2) Recently, for the countermeasure of already-shipped machines, the pressure-proof seal is prepared. If the leakage occurs, install the countermeasure part according to this service news.2.

2. List of parts

Part No.	Part Name	Purpose of part	Q'ty	Remarks
6210-71-3180 (6210-71-3183)	Seal (Seal)	Replacement	1 (1)	The special part for the repair of already-shipped engine (As for the production engine, the countermeasure is done by the structure change. Therefore, the current seal is continuously used.)

3. Repair contents

- (1) The oil seal is improved so that the pressure-proof is increased (approx. seven times). Therefore, when the high pressure is applied to the rear surface, the oil leakage does not occur.



4. Repair procedure

- 1) ① According to Shop Manual, remove the injection pump, and remove the oil seal. (Fig. 1)
- ② Observe the following “2) Precautions”, and press-fit the improved oil seal.

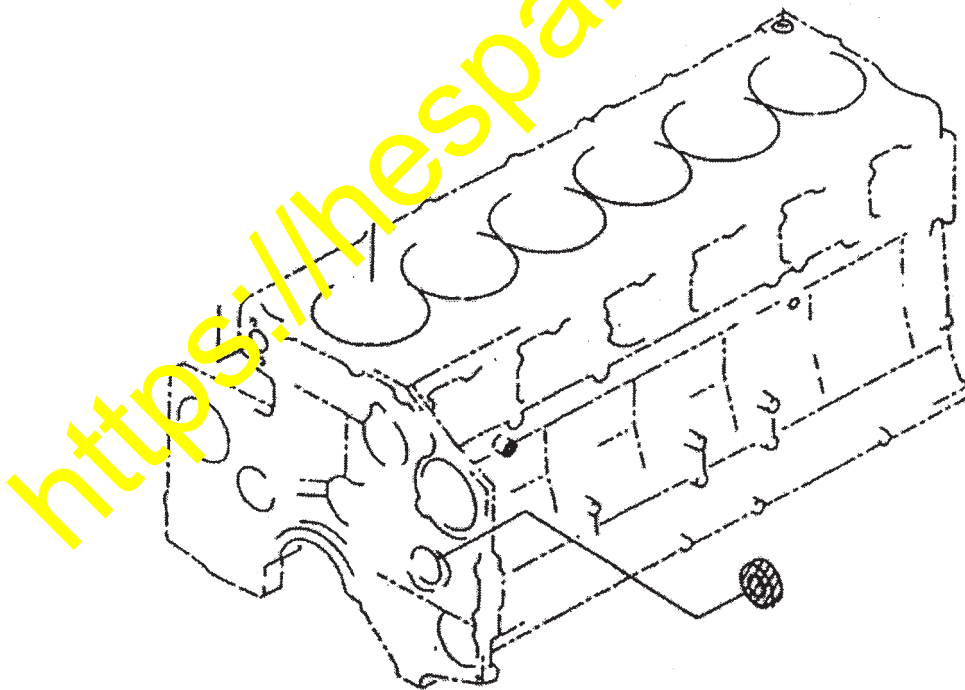


Fig. 1: The position of oil seal

2) Precautions when the oil seal is press-fitted to the cylinder block

- ① Apply the lithium grease (G2-L1) to the lip portion, and apply the engine oil to the periphery.
- ② The press-fitting depth is 2 mm from the block surface. (Refer to Fig. 2.)
- ③ When press-fitting the seal, in order to avoid the deformation of metal ring portion, make the below-mentioned jig (refer to 3)) and use it.

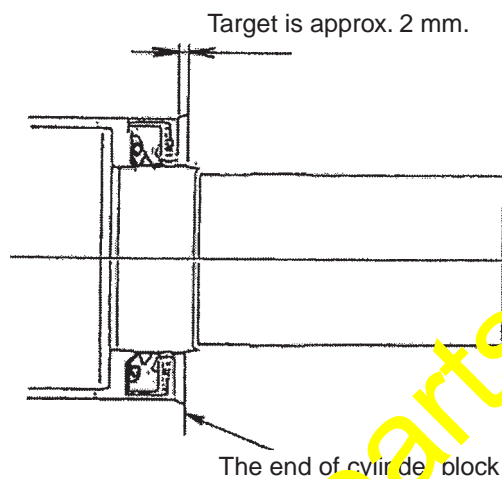


Fig. 2: Seal press fitting depth

3) Jig for press-fitting the seal

This jig is not prepared as the service tool.

Make it by the following figure so that the press-fitting position is fixed. (Fig. 3)

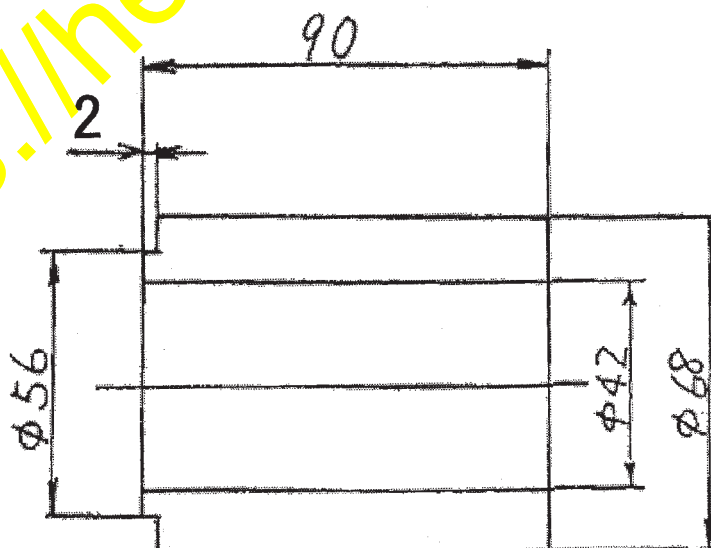


Fig. 3: Jig for press-fitting the seal

No	Engine Model	APPLICATION	IMPROVED
1	140series-1/-2	-- 30219	30220 --

No	Model (Reference)	APPLICATION (Reference)	IMPROVED (Reference)	ENG model	APPLICATION	IMPROVED	Note
1	CS360-2	11001 -- 11086		S6D140-1	-- 30215	30216 --	
2	D135A-2	10301 -- 10999		S6D140-1	-- 30215	30216 --	
3	D155A/AX-3	60001 -- 61999		S6D140-1	-- 30215	30216 --	
4	D155A-2A	57001 -- 57353	57354 --	SA6D140E-2	-- 30219	30220 --	
5	D155A-5	65001 -- 65057	65058 --	SA6D140E-2	-- 30219	30220 --	
6	D155AX-5	70001 -- 70999		SA6D140E-2	-- 30219	30220 --	
7	D155C-1	15686 -- 15999		SA6D140-2	-- 30219	30220 --	
8	D355C-3	14263 -- 14437	14438 --	SA6D140-2	-- 30219	30220 --	
9	GC380-1	10001 -- 11099		S6D140-1	-- 30215	30216 --	
10	GC380F-2	12001 -- 12073	12074 --	SA6D140-1	-- 30205	30206 --	
11	GD805A-1	10001 -- 10099		S6D140-1	-- 30215	30216 --	
12	GD825A-2	11001 -- 12108	12109 --	S6D140-1	-- 30215	30216 --	
				S6D140E-2	-- 30219	30220 --	
13	HD325-5	2001 -- 4999		SA6D140-1	-- 30205	30206 --	
14	HD325-6	5001 -- 5999		SA6D140-1	-- 30205	30206 --	
				SAA6D140E-2	-- 30219	30220 --	
15	HD405-6	1001 -- 1999		SAA6D140E-2	-- 30219	30220 --	
16	HV3000-1	1001 -- 1010	1011 --	SAA6D140E-2	-- 30219	30220 --	
17	HV6000-1	1001 -- 1010	1011 --	SAA6D140E-2	-- 30219	30220 --	
18	KE190-2			S6D140-1	-- 30215	30216 --	
19	LW500-1H	10001 -- 10053	10053 --	S6D140E-2	-- 30219	30220 --	
	LW500-1X	11001 -- 11034	11035 --				
20	PC1600/SP-1	10001 -- 10199		SA6D140-1	-- 30205	30206 --	
				SA6D140-2	-- 30219	30220 --	
21	PC1800-6	10001 -- 10199		SAA6D140E-2	-- 30219	30220 --	
22	PC650-3	10501 -- 19999		SA6D140-1	-- 30205	30206 --	
23	PC650-5	20001 -- 29999		SA6D140-1	-- 30205	30206 --	
24	PC710-5	10001 -- 10299		SA6D140-1	-- 30205	30206 --	
25	PC750-6	10001 -- 10999		SA6D140E-2	-- 30219	30220 --	
26	PC800-6	30001 -- 30999		SA6D140E-2	-- 30219	30220 --	
27	WA500-1	10001 -- 21999		S6D140-1	-- 30215	30216 --	
28	WA500-3	50001 -- 51999		S6D140E-2	-- 30219	30220 --	
29	WF550-3	50001 -- 50009		S6D140E-2	-- 30219	30220 --	
30	WF600T-1	10001 -- 10010		S6D140-1	-- 30215	30216 --	
31	WS16S-3			S6D140-1	-- 30215	30216 --	
32	WS23-2			S6D140-1	-- 30215	30216 --	
33	WS23-5			S6D140-1	-- 30215	30216 --	
34	WS23S-2			SA6D140-1	-- 30205	30206 --	
1	WA500-DZ-3			S6D140E-2	-- 30219	30220 --	KCCM
2	PC750-KU-6			SAA6D140E-2	-- 30219	30220 --	KUK

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