## COMPONENT CODE A3



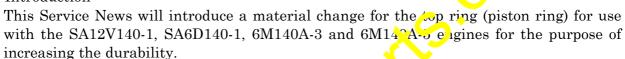
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DATE	Nov. 6, 2002	
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- **SUBJECT:** INTRODUCTION OF MATERIAL CHANGED PISTON RING ON 140 ENGINES
- **PURPOSE:** To introduce a material change for the top ring (piston ring) for use with the SA12V140-1, SA6D140-1, 6M140A-3 and 6M140A-5 engines
- **APPLICATION:** Refer to page 4.
- FAILURE CODE: A361CA

## **DESCRIPTION:**

1. Introduction





## 2. Contents of the modification

	New top ring		Current top ring	
1) Part No.	6212-32-2210		6211-31-2211 6212-31-2210	
	62	212-35-2340	62	12-35-2310
2) Material		Steel		Cast iron
3) Identification marking				
	Symbol	Part No	Symbol	Part No.
	1RX	6212-22-2910	1R, A	6211-31-2211
			1RNB	6212-31-2210
	1RXM	<b>5212-35-2340</b>	1RNBM	6212-35-2310

- \*1 By the above material change, the Jur bility of the top ring will be increased.
- \*2 Identify the new and current typing by the identification marking being stamped on the upper surface of the closer gap area.

## 3. Interchangeability

The new and current top rings are interchangeable as follows.

	Ne v / 50 ring	Interchangeability	Current top ring
1	C212-32-2210	-↔	6211-31-2211
	(5211-31-2050)	↔	(6211-31-2033)
2	6212-32-2210	↔	6212-31-2210
	(6211-31-2050)	↔	(6212-31-2030)
3	6212-35-2340	↔	6212-35-2310
	(6212-31-2041)	₩	(6212-31-2040)

The numbers of the upper line are the part numbers of the top ring and the numbers of the lower line in ( ) are the ring ass'y numbers.

3. List of parts

List of parts			
Part No.	Part Name	Q'ty	Remarks
6211-31-2050 (6211-31-2033) (6212-31-2030)	Ring Ass'y (Ring Ass'y) (Ring Ass'y)	6 (6) (6)	For the 12 V type: 12 sets/engine
6212-31-2041 (6212-31-2040)	Ring Ass'y (Ring Ass'y)	6 (6)	

4. Applicable machine and engine models and serial numbers of already modified factory shipment engines

Applicable model	Serial No. of applicable engines	Serial No. of already modified engines
D475-A-2	-#12546	From the next shipment
HD785-3	-#12454	From the next shipment
HD785-5	-#13082	#13083 -
HD785-2*	- #12993	From the next shipment
HD785-DZ-5		From the next shipmen'
HD785-JK-5		#13101 -
HD985-3	-#12454	From the next supment
HD985-5	- #13082	#13083 -
HV700-2	-#10815	From the next shipment
J12V140-WJK-1	-#12646	From the next shipment
SA12V140-C2-1	-#11739	From the next shipment
SA12V140-W1-1	- #12993	From the next shipment
WA800-1	- #12732	From the next shipment
WA800-2	- #12732	From the next shipment
WA800-3	- #12921	#13108 -
WA900-1	- #12721	From the next shipment
WA900-3	- <mark>- </mark> #13 <mark>)</mark> 52	#13090 -
WD900-3	<mark>- 4120</mark> 52	#13090 -
HD325-6	<b>#</b> 29919	From the next shipment
SA6D140-W1-1	- #23024	From the next shipment
SA6D140A-W1-1	- #28954	From the next shipment
HD325-6	- #29919	From the next shipment
HV3000-1	- #29840	From the next shipment
LW500	- #29871	#29955 —
D4 5A-3	- #12746	#13081 - (10726 -)
(M140A-1	- #23374	From the next shipment
6M140A-2	- #22286	#22289 -
6M140B-2	-#22271	From the next shipment

(1) Part No. of the top ring: 6212-32-2210

(2) Part No. of the top ring: 6212-35-2340

Applicable model	Serial No. of applicable engines	Serial No. of already modified engines
6M140A-3	- #23374	From the next shipment
6M140A-5	- #10035	From the next shipment