COMPONENT CODE 2D

## PARTS & SERVICE NEWS

**REF NO.** | AA01045

DATE February 26, 2001

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SUBJECT:ANNOUNCEMENT OF NEW SHIMMING PROCEDURESPURPOSE:To inform the field of the new metal face seal shimming procedures for rear<br/>brake assemblies and front brake assemblies.APPLICATION:Komatsu 930E Dump Trucks AFE48-A & Up, A30019, A30026 & UpFAILURE CODE:2D10Z9DESCRIPTION:Shimming Procedure of (Black Toric Seal) PC0651

## REVISED METAL FACE SEAL GAP INSTRUCTIONS FOR REAR BRAKE ASSEMBLIES

These instructions apply to all rear brake assemblies. The adjustment will provide an 11.0 mm (0.433 inch) nominal seal gap after installation into wheel motor assembly. This adjustment procedure requires use of seal PC0651.

NOTE: Disregard 930E shop manuals that specify a seal g p of 15.0 mm (0.51 inch).

- 1. Refer to Figure 1 and 2. Assemble brake per current op cable procedure, install *ten* 0.51 mm (0.020 inch) thick shims (3) and *one* 0.25 mm (0.010 inch) thick shim (3) at each shim location around seal carrier.
- 2. After completion of assembly, measure seal gap 'D" at 3 equally spaced locations and determine the average dimension.
- 3. Add 545.34 mm (21.470 inch) to the average dimension determined in step 2.



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- 4. Measure dimension "E" at 3 equally spaced locations and determine the average dimension.
- 5. Average dimension "E" must be within 0.13 mm (0.005 inch) of the dimension calculated in step 3. Loosen seal carrier capscrew (4) and add / subtract shims in order to increase / decrease "E" to the acceptable range. Quantity and thickness of shims must be the same at each shim location.
- 6. Tighten capscrews (4) and check dimensions again to verify changes.
- 7. Complete brake assembly.
- 8. Install brake assembly into wheel motor. On wheel motor assemblies of 930E-2 (63" rim), measure resulting assembled seal gap "D". Dimension "D" should equal 11.0 ± 1.00 mm (0.43 ± 0.039 inch).
- 9. Stamp letter "K" after wheel motor serial number on wheel motor identification plate to identify new seal adjustment.

## REVISED METAL FACE SEAL GAP INSTRUCTIONS FOR FRONT BRAKE ASSEMBLIES

These instructions apply to all front brake assemblies. The adjustment will provide an 11.0 mm (0.433 inch) nominal seal gap after installation. The adjustment requires use of seal PC0 51.

NOTE: Disregard 930E shop manuals that specify a seal gap of 13.0 mm (0.51 i... ch).

- Refer to Figure 3. Assemble spindle, hub and brake per current applicable procedure, then install nine 0.51 mm (0.020 inch) thick shims (5) at each shim location around seal carrier. Install shims (5) on either side of speed sensor gear as required in order to align g par with speed sensor.
- 2. After final installation of wheel bearing shim pack and keeper prate, measure seal gap "D" at 3 equally spaced locations and determine the average dimension. Ideal gap is 11.00 mm (0.433 inch), acceptable gap is 11.00 mm ± 0.25 mm (0.433 inch + 0.09 inch).
- 3. Loosen seal carrier capscrew (4) and add / subtract shims (5) in order to increase / decrease "E" to the acceptable range. Quantity and thickness of thin must be the same at each shim location.
- 4. Tighten capscrews (4) and check seal gap a very changes.
- 5. Complete brake assembly.
- 6. Stamp letter "K" on top of spindle (Fizure 4) to identify new seal adjustment.



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