

PARTS & SERVICE NEWS

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SUBJECT: IMPROVED SUPPLY PUMP TAPPET ROLLER FOR ϕ 125, ϕ 140 COMMON RAIL ENGINES

PURPOSE: To introduce an improved supply pump tappet roller for the ϕ 125 and ϕ 140 common rail engines

APPLICATION: ★ See (**SERIAL NUMBERS OF MACHINES AFFECTED**) below

FAILURE CODE: A715CA

DESCRIPTION: Engines equipped with the common rail (ϕ 140 engines and ϕ 125 engines), there is the possibility of breakage or failure of the tappet roller, which is an internal part of the pump. Therefore, KOMATSU has registered improved tappet roller assembly (for the supply pump) with enhanced foreign matter resistance and with increased seizure resistance. To replace the tappet roller, or the supply pump assembly itself, following the modification procedure described in this Service News.

MACHINE PREPARATION

1. Park the machine on a flat level surface; lower the work equipment to the ground. Shut off the engine and cycle the controls to remove any residual hydraulic pressure from the work equipment circuits. Turn the parking brake switch on and block any tracks or wheels if necessary.
2. Remove the key from the ignition switch until the repairs are complete. Place a tag on the steering controls advising: "This machine is being repaired. It should not be started or moved for any reason until the tag is removed by the person doing the repairs."



WARNING! Observe all safety and precautionary standards as dictated by the environment and work conditions under which the equipment will be inspected, reworked and repaired. Consult the "Shop Manual" and "Operator's and Maintenance Manual" and your "Komatsu district service manager" with any/all questions regarding safety.

Remark

These instructions are intended to supplement the service data contained in the appropriate "Shop Manual". Always refer to that manual for Removal, Installation, Disassembly and Reassembly instructions when not contained in this document.

SERIAL NUMBERS OF MACHINES AFFECTED

| Machine model | Serial Number of the Engine | | Serial Number of the Machine | |
|---------------|-----------------------------|-------------------------------------|------------------------------|-------------------------------------|
| | Engines in the field | Shipped with modification completed | Machines in the field | Shipped with modification completed |
| PC600-6 | | 113050~ | 11001~11130 | Next shipment |
| PC650-6 | | 113050~ | 3100131050 | Next shipment |
| PC600-7 | | 113050~ | 20001~20051 | 20052 and UP |
| PC650-7 | | 113050~ | 40001~40017 | 40018 and UP |
| PC750-6E | | 113050~ | 11001~11080 | Next shipment |
| PC800-6E | | 113050~ | 31001~31094 | Next shipment |
| PC750-7 | | 113050~ | 20001~20031 | 20032 and UP |
| PC800-7 | | 113050~ | 40001~40025 | 40026 and UP |
| PC1800E-6 | | 113050~ | 11001~11019 | 11020 and UP |
| D155AX-5A | | 113050~ | 75001~75306 | Next shipment |
| D155AX-5B | | 113050~ | 76001~76089 | 79090 and UP |
| HD325-6 | | 113050~ | 6001~6292 | 6293 and UP |
| HD405-6 | | 113050~ | 2001~2140 | 2141 and UP |
| HM400-1 | | 113050~ | 1001~1179 | 1180 and UP |
| HM350-1 | | 113050~ | 1001~1085 | 1086 and UP |
| WA500-3A | | 113050~ | 52001~52204 | 52205 and UP |
| WA500-3E | | 113050~ | 54001~54054 | 54055 and UP |
| WT800E-1 | | 113050~ | 1001 | 1002 and UP |
| WZ4000-1 | | 113050~ | 1001~1006 | 1007 and UP |
| DCA400SSK | | 113050~ | | |
| D275A-5 | | 113050~ | 25001~25104 | 25105 and UP |
| D275AX-5 | | 113050~ | 20001~20114 | 20115 and UP |
| CS360-2E | | 113050~ | 11001~11091 | 11092 and UP |
| CS360SD-2E | | 113050~ | 11001~11523 | 11524 and UP |
| GS200-1 | | 113050~ | 1001~1002 | 1003 and UP |
| WA470-5 | | 313550~ | 80079~80079 | 80080 and UP |
| WA480-5 | | 313550~ | 80001~80073 | 80074 and UP |
| WA450-5L | | 313550~ | A36001~A36275 | A36276 and UP |
| WA480-5L | | 313550~ | A37001~A37090 | A37091 and UP |
| HM300-1 | | 313550~ | 1001~1134 | 1135 and UP |

| | | | | |
|----------|--|---------|-------------|--------------|
| D65EX-15 | | 313550~ | 67001~67329 | 67330 and UP |
| D85EX-15 | | 313550~ | 10001~10110 | 10111 and UP |
| PC400-7 | | 313550~ | 50001~50154 | 50155 and UP |
| PC450-7 | | 313550~ | 20001~20114 | 20115 and UP |

PARTS LIST

| No. | Part Number | Description | Qty. | Remark |
|-----|------------------|--------------------|------|--------------|
| 1 | 6156-71-1110 | PUMP | 1 | 125 engines |
| 2 | 6156-71-1130 | PUMP | 1 | 125 engines |
| 3 | 6217-71-1120 | PUMP | 1 | 140 engines |
| 4 | 6217-71-1130 | PUMP | 1 | 140 engines |
| 5 | 6218-71-1110 | PUMP | 1 | 140 engines |
| 6 | 6218-71-1130 | PUMP | 1 | 140 engines |
| 7 | ND094170-0100 | TAPPET | 2 | For HD pump |
| | (ND094170-0080) | (TAPPET) | (2) | |
| 8 | ND094170-0110 | TAPPET | 2 | For UHD pump |
| | *(ND094170-0090) | (TAPPET) | (2) | |

* As the current Part No. indicated as "ND094170-0040" in the Parts Book is wrong and the number in the above table has been corrected.

| Model | Pump Assembly | | Tappet Roller Part Number | | Incorporated Serial Number |
|----------------|------------------|---------------|---------------------------|---------------|----------------------------|
| | Komatsu Part No. | Mfg. Part No. | Current Part | New Part | |
| ø140 ENGINE | 6218-71-1110 | 094000 | *ND094170-0090 | ND094170-0110 | 3F0002 |
| | 6218-71-1130 | 094000-044 | | | |
| | 6217-71-1120 | 094000-032 | *ND094170-0080 | ND094170-0100 | 3F0003 |
| | 6217-71-1130 | 094000-0451 | | | 3F0002 |
| ø125 ENGINE | 6156-71-1130 | 094000-0461 | *ND094170-0080 | ND094170-0100 | 3F0002 |
| | 6156-71-1110 | 094000-0381 | | | |

The last digit of the manufacturer's Part Number advances by 1.

* As the current Part No. is indicated as "ND094170-0040" in the Parts Book is wrong and the number in the above table has been corrected.

★ Modification Procedure

When replacing the supply pump assembly itself Remove and install the supply pump assembly referring to the Shop Manual for each model.

For reference, the Shop Manual numbers for the two types of the engines are as follows:

ø125 engines SEBM024208

ø140 engines SEBM022209

When replacing tappet roller assembly refer to the Shop Manual for supply pump (SEBM024001).

DETAILS OF THE MODIFICATION

Engines equipped with the common rail ($\varnothing 140$ engines and $\varnothing 125$ engines), a new supply pump has been registered employing the improved tappet roller, which is an internal part of the supply pump, with enhanced foreign matter resistance and with increased seizure resistance.

- Improved Points

The surface treatment for the tappet roller has been changed. (CrN coating has been added.) Since this part (tappet roller assembly) is interchangeable for installation, the part number of the supply pump assembly has not been changed. However, the identification of the current part (or new part) is possible by the Serial Number of the pump (or by the manufacturer's Part Number.).

