WEBM007302

SHOP MANUAL

PW98MR-6

HYDRAULIC EXCAVATOR

SERIAL NUMBER

PW98MR-6 F00003 and up

KOMATSU®

Utility

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10 STRUCTURE AND FUNCTION

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AIR BLEEDING FROM HYDRAULIC CIRCUITS

Order for operations

Task	Air bleeding item								
	1	–	2	3	4	5	6	7	9
	From pump	Start engine	From pump to tank circuit	From LS circuit	From cylinders	From swing motor	From travel motor	From swing circuits	Task start
• Oil change • Filter replacement	○	▶○	▶○	▶○	▶○	▶○	▶○		▶○
• Replace return filter element		○		▶○					▶○
• Pump replacement or overhauling • Suction tube removal	○	▶○	▶○	▶○	▶○				▶○
• Control valve replacement/ repair		○		▶○	▶○			▶○	▶○
• Replace cylinder • Remove cylinder piping		○			▶○				▶○
• Replace swing motor • Remove swing motor piping		○				▶○			▶○
• Travel motor and swivel joint replacement • Travel motor and swivel joint removal		○					▶○		▶○
• Swing circuit part replacement and removal (PPC valve, lines, pressure switch, etc.)		○						▶○	▶○
• Replace - Removal steering unit • Removal of priority valve		○		▶○					▶○

NOTA: Bleed the air from the swing motors or travel motors only when the oil inside the motor case has been drained

1. Bleeding air from pump

★ The pump is highly likely to become damaged if it is operated without filling the casing.
Before starting the engine, fill the casing as follows:

1 - Loosen the bleed screw (1) that is fitted on the pump bleeding port and wait until oil comes out.

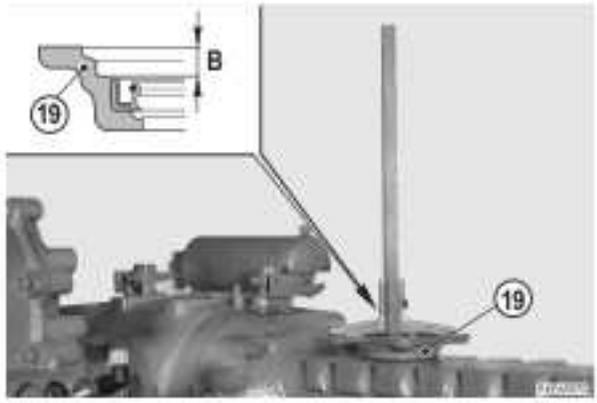
2 - Tighten the bleed screw (1).

Screw: 7.8–9.8 Nm



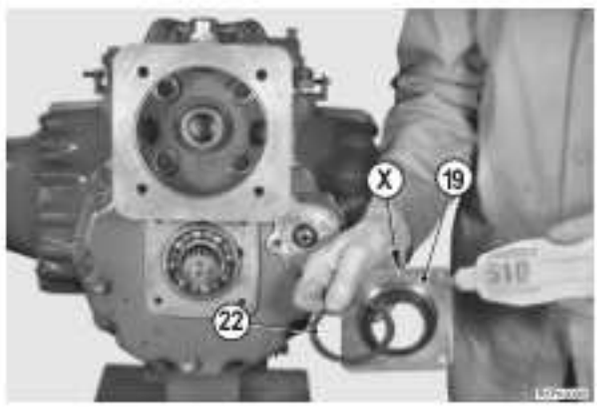
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20 -Measure dimension «B» between the surface of the cover (19) and the edge of the seat of bearing.
Calculate the required dimension of distance washers so as to leave a slack of 0.2–0.3 mm:
Example: B – (A + 0.2 – 0.3)= dimension of distance washer.



21 -Insert the required distance washers (22) in the cover (19), greasing them to keep them in position.

Distance washers: ASL800050



22 -Coat the supporting surfaces and fit the flange.

★ Keep niche **X** upwards.

Surfaces: Loctite 510

Bolt: Loctite 270

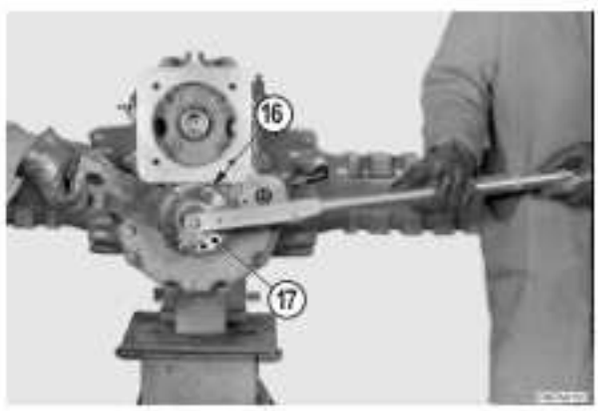
Bolt: 48–62 Nm



23 -Fit the flange (17), the O-ring (18) and bolt them with the nut (16).

Nut: Loctite 270

Nut: 260–300 Nm

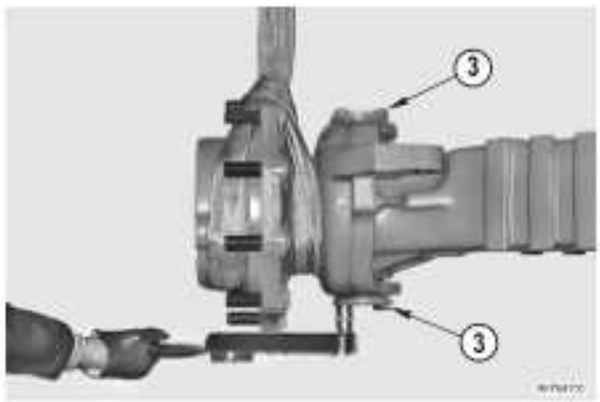


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8 -Check the correct assembly side of the seal (5).

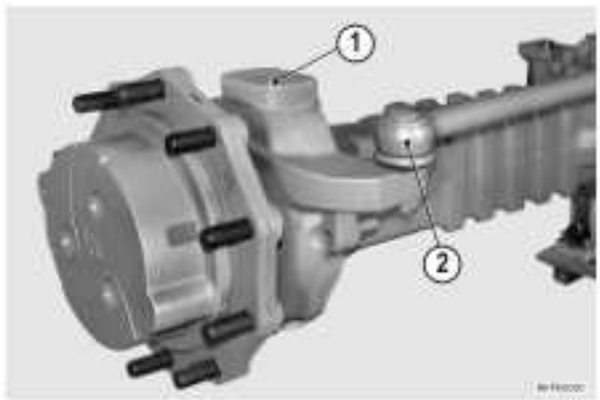
9 -Tighten the new fittin screws (3) of top and bottom articulation pins in sequence using the cross tightening method.

Torque wrench setting: 128-142 Nm



10 -Connect the articulation pin (2) (See: Assembly "5. Steering cylinder").

11 -Lubricate articulations with Molikote and fit the dust cover (1).



9. Planetary reduction

1 -Lubricate the bushing (18) and the seat of the steering case (3).

2 -Install the bushing (18), using tool **M23**.



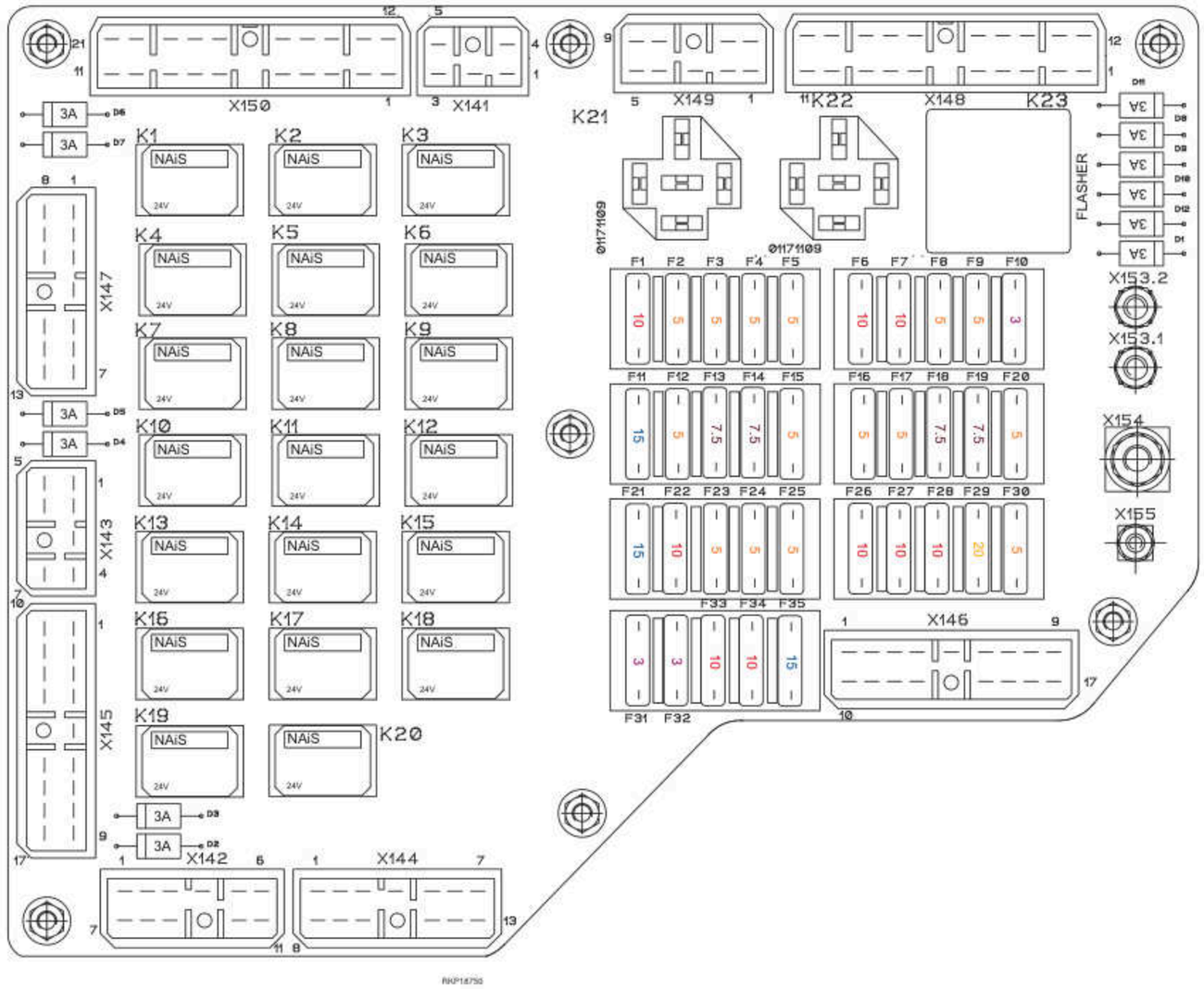
3 -Lubricate the outer surface of the sealing ring (17) and centring ring (16); fit them into their seat using tool **M24**.



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ELECTRICAL DIAGRAM (3/5)

FUSES BOX LAYOUT



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