WEBM008601

SHOP MANUAL

PC80MR-3

HYDRAULIC EXCAVATOR

SERIAL NUMBER

PC80MR-3 F00003 and up

KOMATSU®

Utility

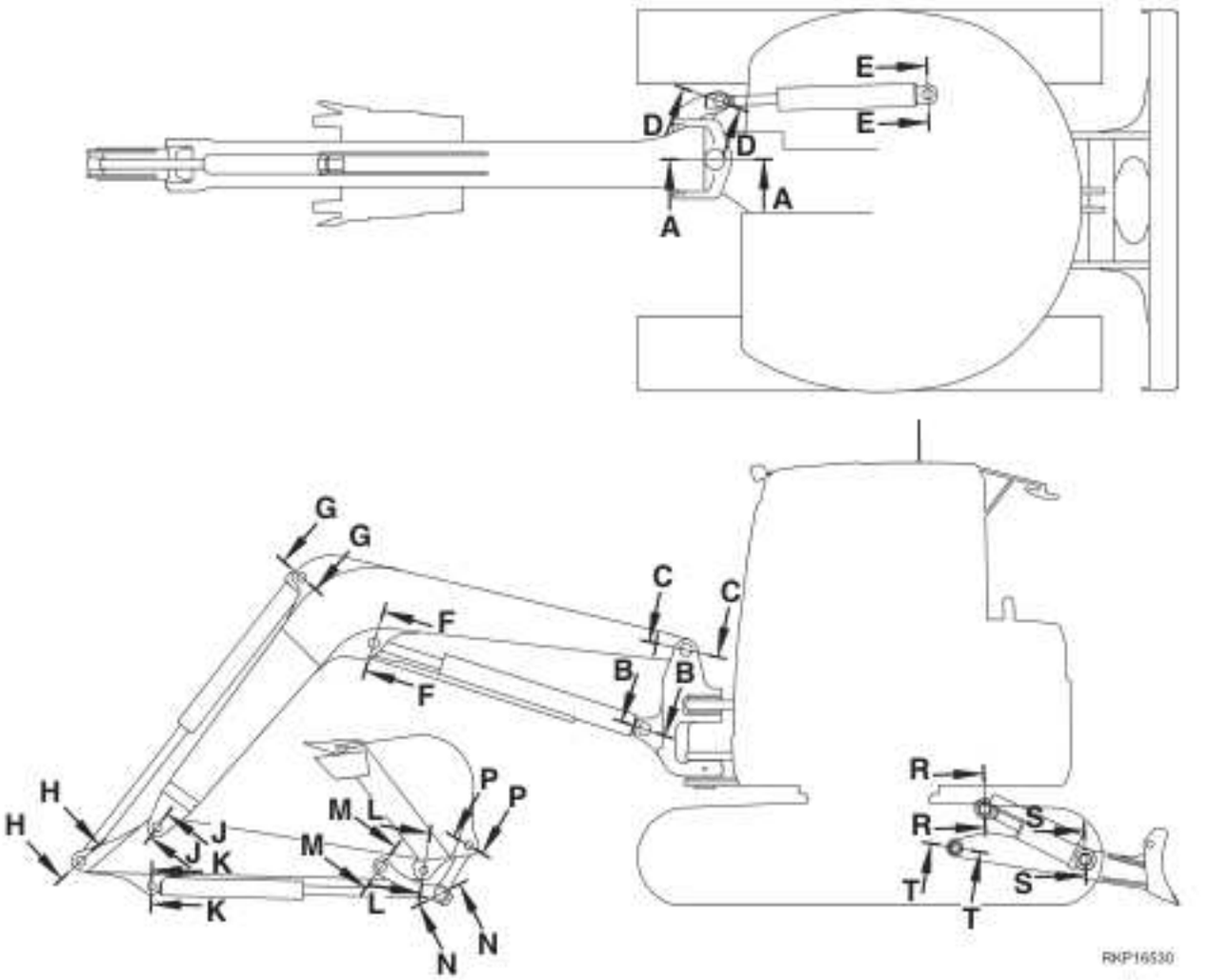
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10 STRUCTURE AND FUNCTION

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EQUIPMENT



Unit: mm

No.	Control	Criteria					Remedy
		Basic dimension Ø	Allowable		Standard clearance	Clearance Limit	
			Shaft	Hole			
1	Clearance betweenbushing and swingbracketrotating pin	110	-0.036 -0.090	+0.204 +0.125	0.161 – 0.294	1.0	Replace
2	Clearance between bushings and boom mounting pin	65	-0.030 -0.100	+0.174 +0.100	0.130 – 0.274	1.0	
3	Clearance between bushings and arm mounting pin	60	-0.030 -0.100	+0.174 +0.100	0.130 – 0.274	1.0	
4	Clearance between arm bushings and bucket mounting pin	50	-0.225 -0.285	+0.062 +0.120	0.105 – 0.223	1.0	
5	Clearance between bushings and lever mounting pin	50	-0.225 -0.285	+0.062 +0.120	0.105 – 0.223	1.0	
6	Clearance between bushings and lever mounting pin	60	-0.030 -0.100	+0.173 +0.100	0.130 – 0.273	1.0	
7	Clearance between linkbushings and bucket mounting pin	50	-0.225 -0.285	+0.040 +0.094	0.131 – 0.245	1.0	
8	Clearance between blade fulcrum pin and bushing	50	-0.025 -0.087	+0.142 +0.080	0.105– 0.229	1.0	

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2. Bleeding air from tank

1 -Start the engine and operate it at medium speed (about 1650 RPM).

2 -Slowly move all the attachments for about 5 minutes to bleed the air.

3. Bleeding air from LS circuits

★ The air bleeding procedure should only be carried out after a pump hose, a valve or an LS circuit hose has been removed or replaced.

★ Failure to bleed air from the LS circuit will result in abnormal attachment operation and incorrect machine motion.

1 -Loosen the bleed screw (1) on the fitting at the pump LS port.

2 -Start the engine and operate it at Min. speed for 2 minutes.

3 -Move the bucket to end of travel and in both directions for an extra 2 minutes.

4 -Tighten the bleed screw.



4. Bleeding air from hydraulic cylinders

★ Bleed air from cylinders when a hose is disconnected or when one or several cylinders are replaced.

1 -Start the engine, operate it at average speed (approx. 1650 RPM) and slowly move the piston 4 to 5 times to within approximately 100 mm of bottom of stroke.

2 -Send piston to bottom of stroke in 3 - 4 moves.

3 -Perform 4 - 5 full displacements by pressurizing the piston.

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COMPLETE RADIATOR AND AIR CONDITIONING CONDENSER

Removal

★ Remove the engine hood and counterweight. (For details see, "COUNTERWEIGHT").

Drain the air conditioning unit. (For details see "20 TESTING AND ADJUSTMENTS").

★ Drain the engine cooling liquid.

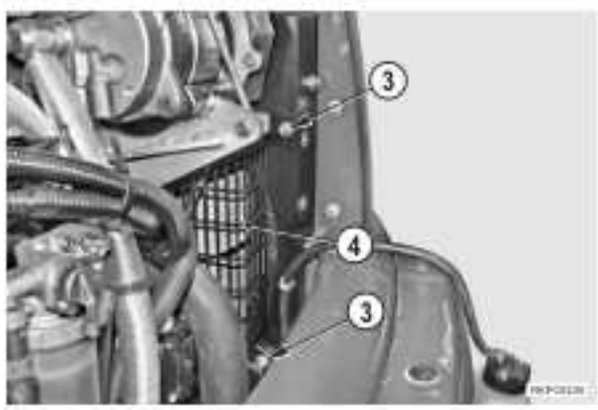
Coolant liquid needed: approx 18 ℓ

1 -Disconnect the expansion tank hose (1) from the radiator.

2 -Remove the screws and remove the tank (2).

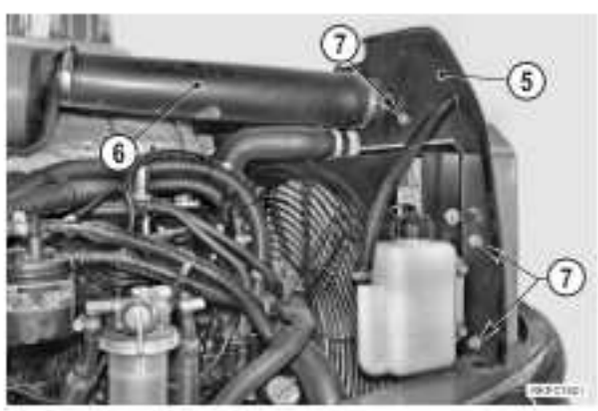


3 -Take out screws (3) and fan guard (4).



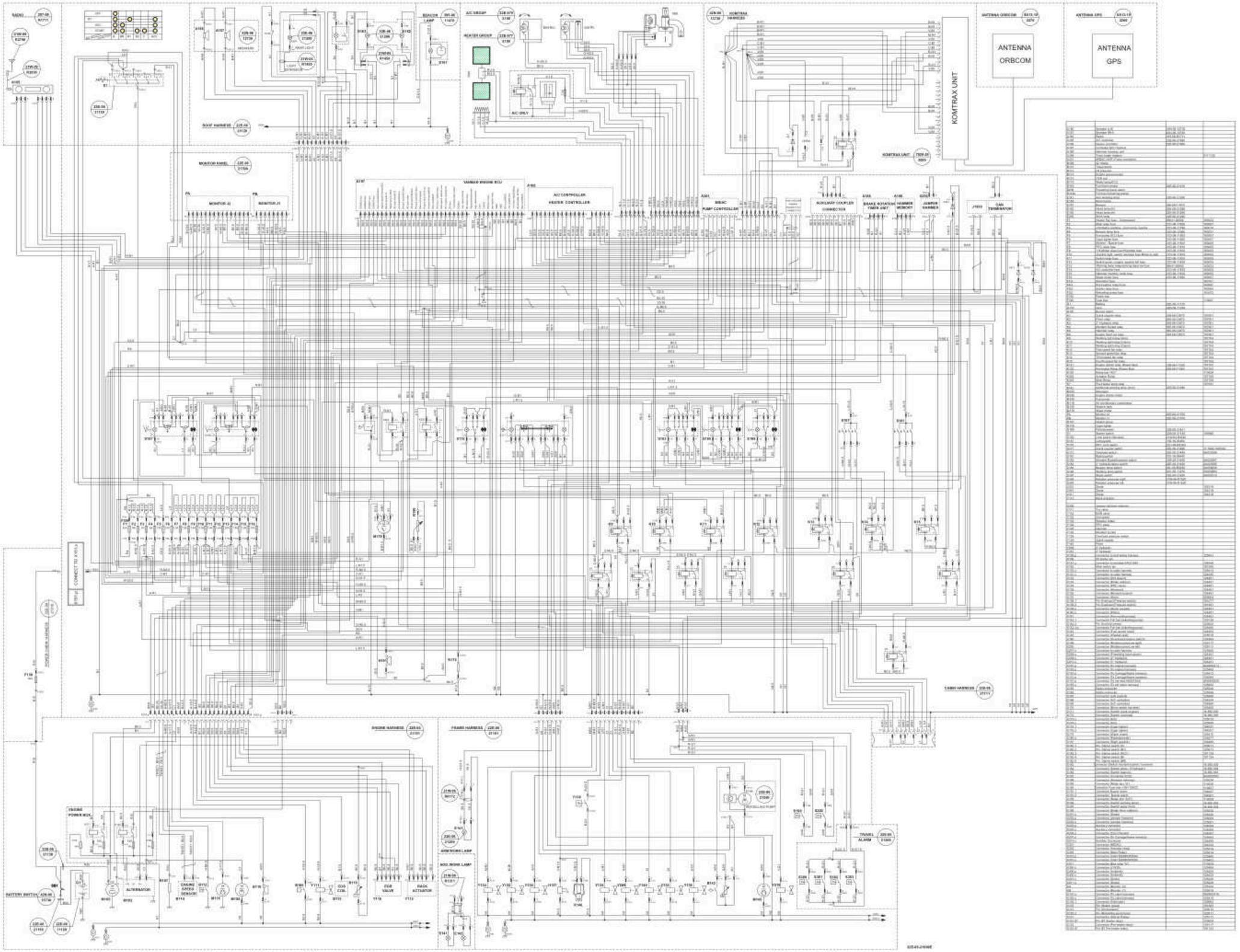
4 -Disconnect the intake line (6) from the bulkhead (5).

5 -Remove four screws (7) and remove bulkhead (5).



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ELECTRICAL DIAGRAM



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