CX250C
CX250C LR
Tier 4
Crawler Excavator

SERVICE MANUAL

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CASE CONSTRUCTION

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CONTENTS

GENERAL INFORMATION. 3
Safety 4
ROPS Judgment Method 6
Standard Torque Data For Cap Screws And Nuts 10

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CONTENTS

Overall (CX250C) 3
Main Data 3
Performance 3
Main Unit Dimensions 3
Engine 3
Cooling System 4
Upper Side Work System 4
Operating Device 5
Swing Units 5
Travel Lower Body 6
Hydraulic Equipment 6
Hydraulic Device 6
Control Valve and Cylinder 7
Capacities, Filters 7
Coolant and Oil Capacities 7
Hydraulic Oil Filters 7
Fuel Filter 7
Overall (CX250C LR) 8
Main Data 8
Performance 8
Main Unit Dimensions 8
Engine 8
Cooling System 9
Upper Side Work System 9
Operating Device 10
Swing Units 10
Travel Lower Body 11
Hydraulic Equipment 11
Hydraulic Device 11
Control Valve and Cylinder 12
Capacities, Filters 12
Coolant and Oil Capacities 12
Hydraulic Oil Filters 12
Fuel Filter 12

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CONTENTS

Main Equipment Table . . . 3
Lower Component . . . 3
- Travel Unit . . . 3
- Take-up Roller . . . 3
- Upper Roller . . . 3
- Lower Roller . . . 3
- Recoil Spring . . . 3
- Shoe . . . 3
- Shoe — CX250C LR only . . . 4

Upper Component . . . 5
- Swing Unit . . . 5
- Swing Unit — CX250C LR only . . . 5

Engine-related . . . 6
- Engine . . . 6
- DPD . . . 6
- Air Cleaner (double element) . . . 6
- Radiator . . . 6

Hydraulic Device . . . 7
- Hydraulic Pump . . . 7

Control-related . . . 8
- Control Valve . . . 8
- Solenoid Valve (5 stack) . . . 8
- Solenoid Valve (5 stack) — CX250C LR only . . . 8
- Remote Control Valve (left/right, travel operations) . . . 9
- Valve for Left/Right Operations . . . 9
- Valve for Travel Operation . . . 9
- Valve for Travel Operation — CX250C LR only . . . 9
- Remote Control Valve Characteristic Diagram . . . 10
- Operation Remote Control Valve Control Diagram . . . 10
- Travel Remote Control Valve Control Diagram . . . 11
- Travel Remote Control Valve Control Diagram — CX250C LR only . . . 12
- Cushion Valve (heat circuit, with shuttle valve) . . . 13
- Selector Valve (option) . . . 13
- Selector Valve (option) — CX250C LR only . . . 13
- Center Joint . . . 13

Backhoe Attachment . . . 14
- Cylinder . . . 14
- Cylinder — CX250C LR only . . . 14

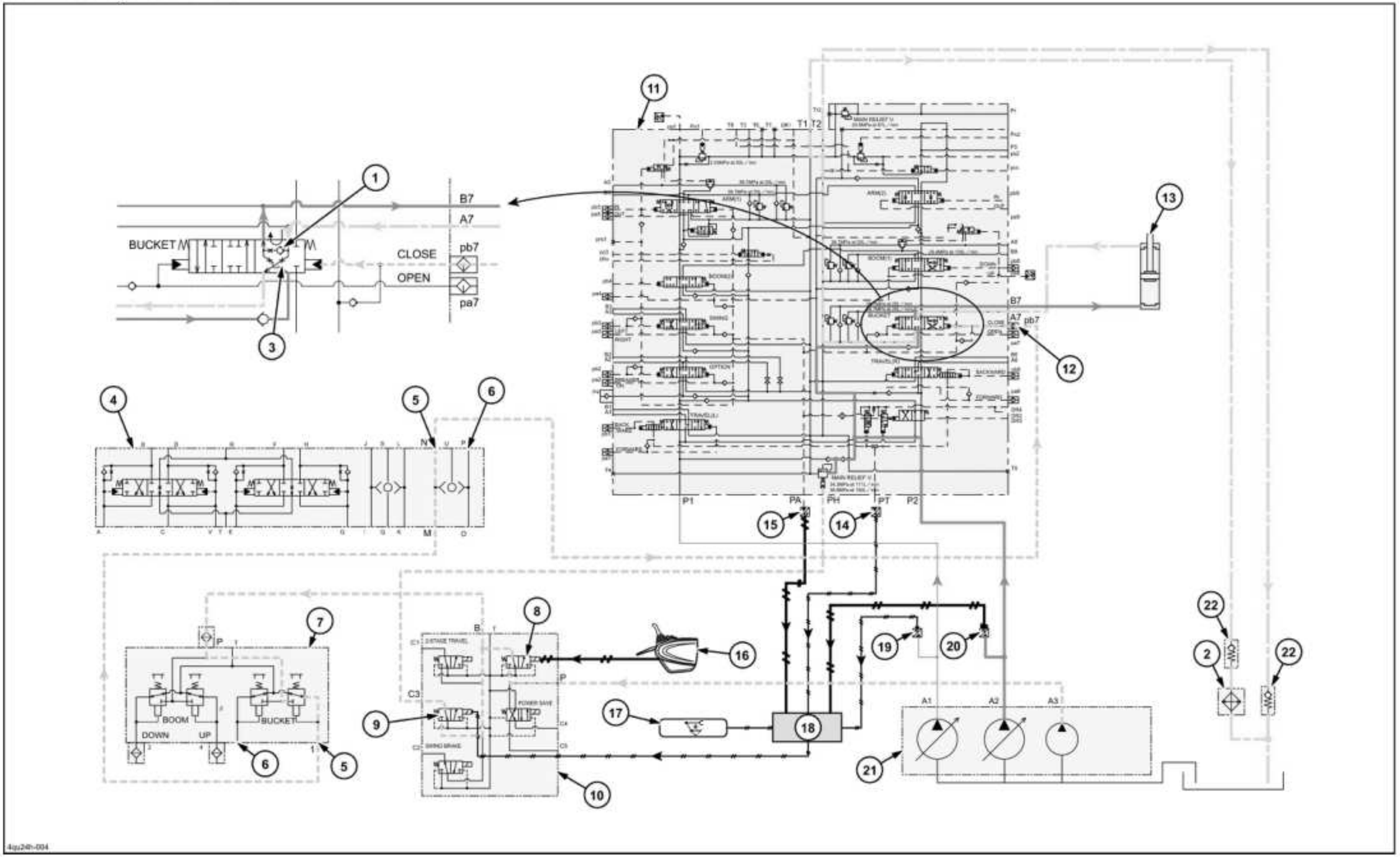
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Applicable part	Inspection and measurement location	Permissible limit value	Repair, solution procedure
Housing (4)	Tooth thickness	Diameter between parts 330.449 mm Diameter of measurement pin D7.000 mm	Replace the housing.
	Tooth surface	There is pitching on 10 % or more of the tooth surface or breaking damage is occurring.	
Shim (5)		During disassembly	Replace the shim.
Flange (1-1)	2-speed piston hole inner diameter and piston assembly outer diameter	Gap 0.040 mm	Replace using the flange kit.
	2-speed piston hole inner diameter	1.2 a degree of roughness Or the surface is rough or there is scratching at least 0.02 mm deep.	
Thrust plate (26)	Thickness	Plate thickness 3.3 mm Plate thickness 2.5 mm Plate thickness 2.9 mm Plate thickness 2.0 mm Plate thickness 2.7 mm Or there is deep scratching on the sliding surface.	Replace the thrust plate.
Angular bearing (3)	Ball rotation surfaces	Flaking is occurring.	Replace the angular bearing.
	Operation	Abnormal noise or unsmooth rotation occurs with rotation.	
Floating seal (2)	Sliding surface	There is deep scratching that may cause oil leaking.	Replace the floating seal. When doing more disassembly beyond this, because oil leaking may occur due to the seal ring slide imprints not matching up of reused seals when reassembly is done, replace these seals before reassembly.
	O-ring	Cracking is occurring on the surface.	
Each O-ring		During disassembly	Replace each O-ring.

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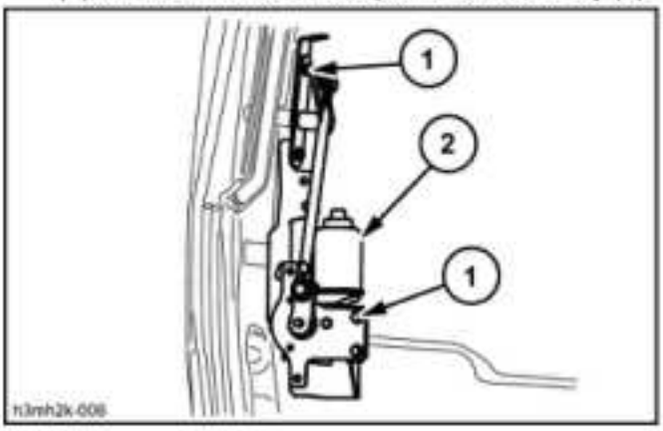
Bucket-close regenerative circuit



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6. Use a box wrench (10 mm) to remove the 4 bolts (1), and then remove the wiper motor assembly (2).



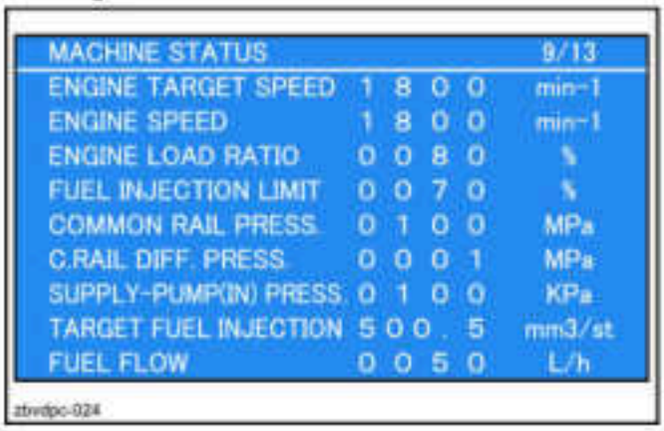
Installation of Wiper Motor

To install, perform the reverse of the removal procedure.

- Be careful about the wiper link and wiper arm installation location.
- Check the wiper arm wipe location and stop location.
- When installing the bolts, tighten them to the specified torque.
  If the torque is not specified for an installation bolt, see the "Tightening Torque" section.

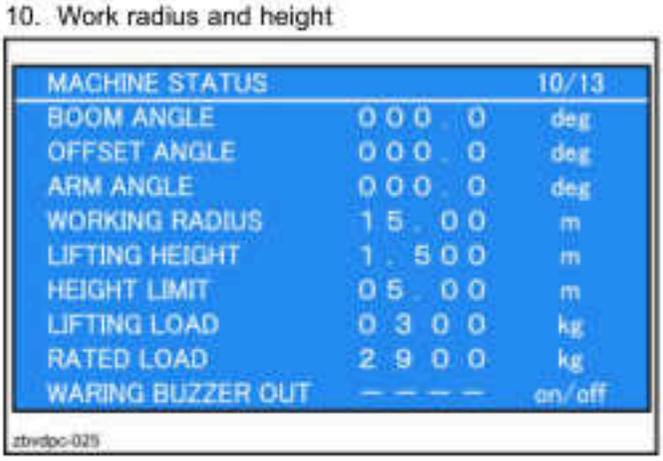
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9. Engine



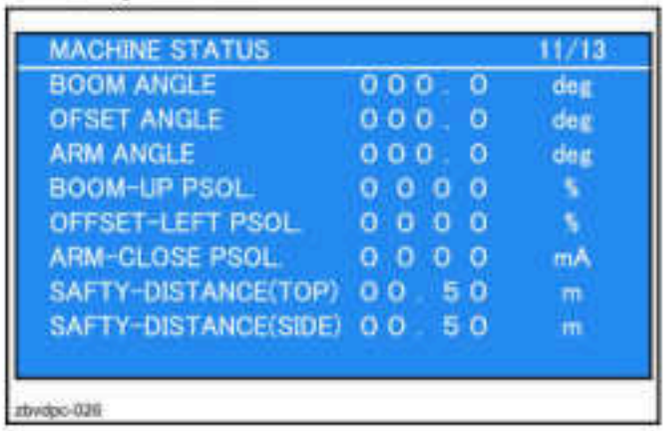
ENGINE TARGET SPEED	min^{-1}	Engine target speed
ENGINE SPEED	min^{-1}	Engine speed
ENGINE LOAD RATIO	%	Engine load ratio
FUEL INJECTION LIMIT	%	Fuel injection ratio
COMMON RAIL PRESS.	MPa	Common rail pressure
C.RAIL DIFF.PRESS.	MPa	Common rail differential pressure
SUPPLY-PUMP(IN) PRESS	kPa	Supply pump pressure (IN)
TARGET FUEL INJECTION	mm3/st	Target fuel injection quantity
FUEL FLOW	L/h	

10. Work radius and height



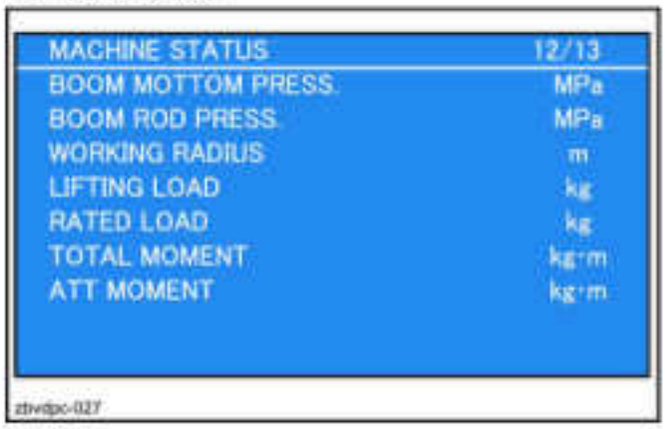
BOOM ANGLE	deg	Boom angle
OFFSET ANGLE	deg	Offset angle
ARM ANGLE	deg	Arm angle
WORKING RADIUS	m	Work radius
LIFTING HEIGHT	m	Work height
HEIGHT LIMIT	m	Hanging limit height
LIFTING LOAD	kg	Hanging load
RATED LOAD	kg	Rated load
WARNING BUZZER OUT	on/off	Liftcrane buzzer

11. Safety distances



BOOM ANGLE	deg	Boom angle
OFFSET ANGLE	deg	Offset angle
ARM ANGLE	deg	Arm angle
P.SOL;BOOM-UP	%	Boom-up solenoid
P.SOL;OFFSET-LEFT	%	Offset solenoid
P.SOL;ARM-CLOSE	mA	Arm-in solenoid
SAFETY DISTANCE(TOP)	m	Safety distance (side)
SAFETY DISTANCE(SIDE)	m	Safety distance (front)

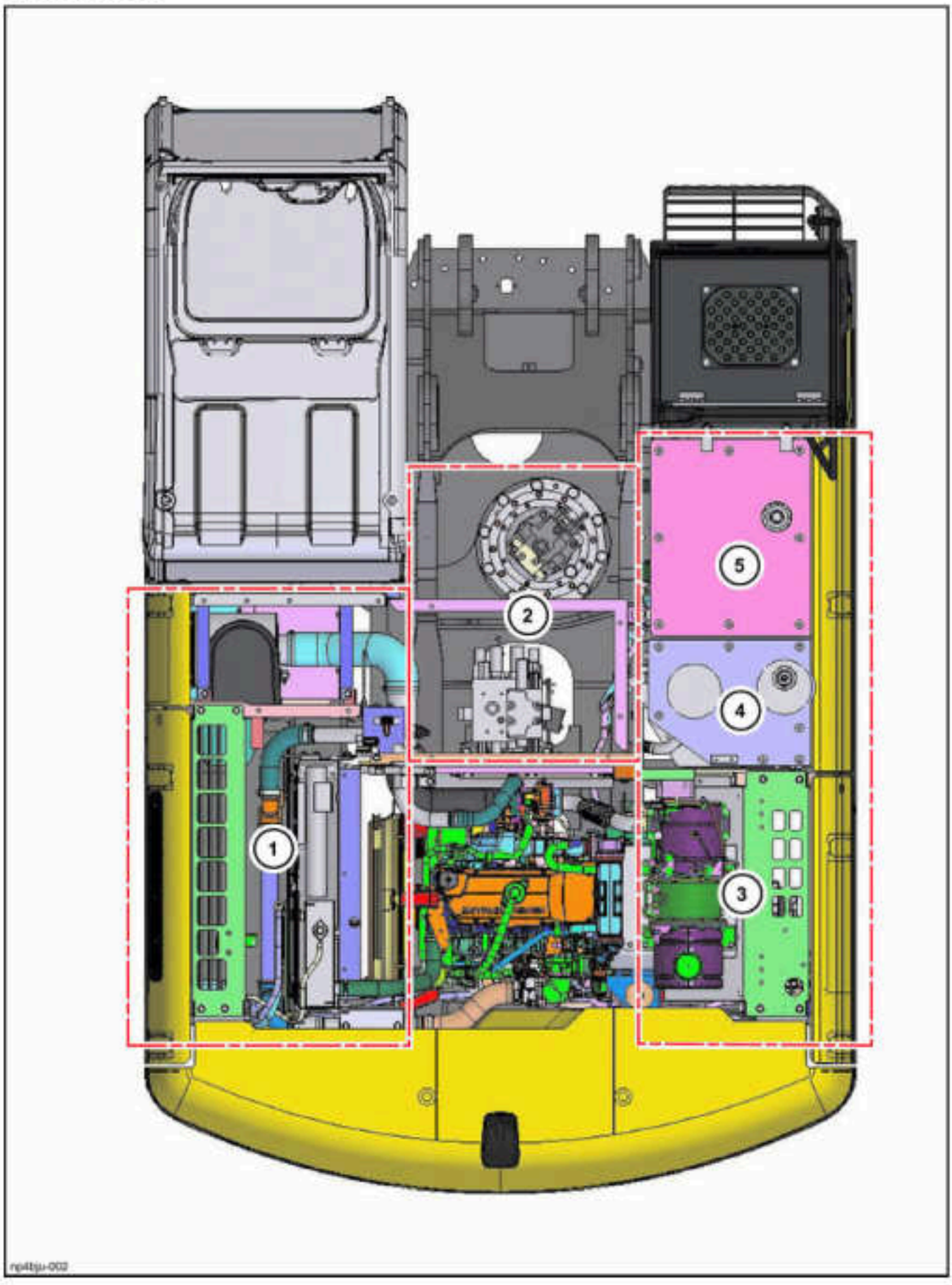
12. Hanging load



BOOM BOTTOM PRESS.	MPa	Boom bottom pressure
BOOM ROD PRESS.	MPa	Boom rod pressure
WORKING RADIUS	m	Work radius
LIFTING LOAD	kg	Hanging load
RATED LOAD	kg	Rated load
TOTAL MOMENT	kg.m	Total moment
ATT.MOMENT	kg.m	Attachment independent moment

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Overall view



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