WEBM006500

SHOP MANUAL

CK30-1

CRAWLER SKID-STEER LOADER

SERIAL NUMBER

CK30-1 F00003 and up

KOMATSU®

Utility

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WEIGHT TABLE

⚠ This weight table is a guide for use when transporting or handling components.

Unit: kg

Machine model	CK30-1
Engine assembly - Muffler - Exhaust pipe	235
Radiator-oil cooler group	32
Hydraulic oil tank (empty)	25
Engine hood	18.5
Cabin (without seat)	215
Seat: • Standard • with suspension	 10 16
Engine-pump group	332–334
Piston pump: • Standard • High-Flow	 82 84
Control valve • 3-spool (standard) • 4-spool (High-Flow)	 21 24
Work equipment (without shovel) • Arm • Work equipment support • Bucket • Tilt cylinder • Dump cylinder	490 325 80 205 25 15
Final drive	65
Drive wheel	21
Lower idler roller (2 lips) Lower idler roller (3 lips)	19 25
Rubber shoe (320 mm) Rubber shoe (450 mm)	180 241
Front idler wheel (3 lips)	48
Rear idler wheel (1 lip)	34.5
Track tensioner cylinder	31

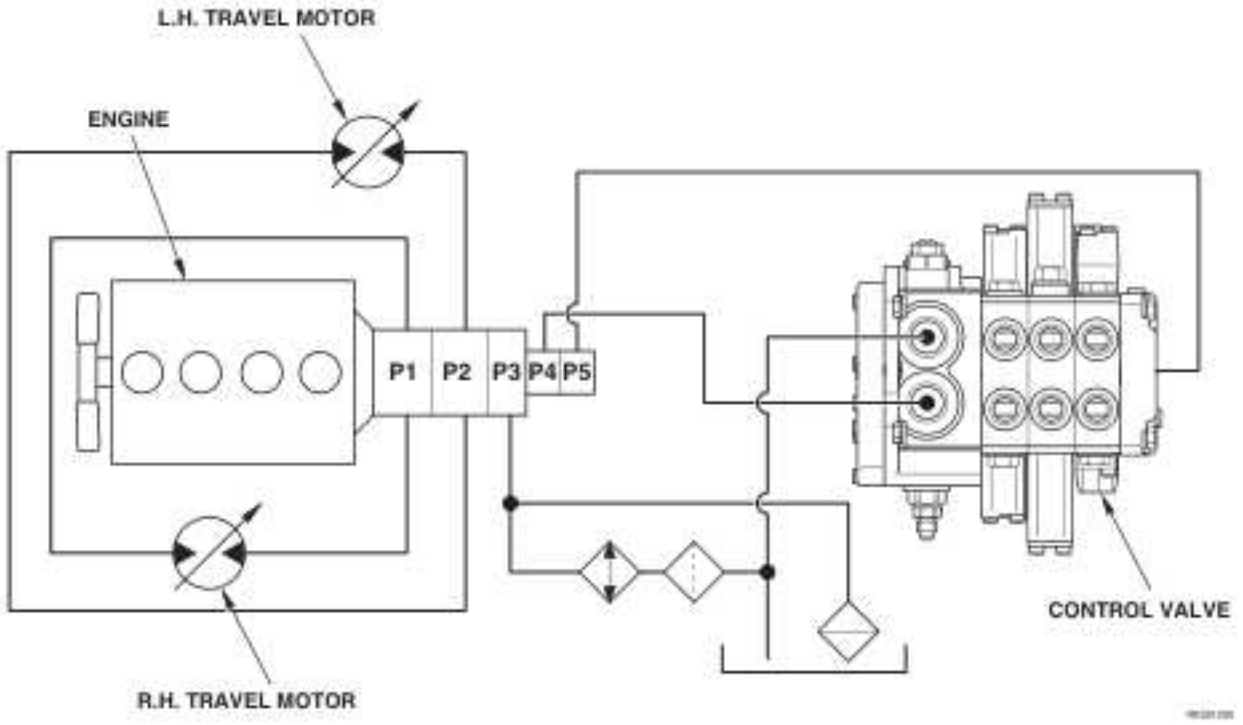
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CONTROL AND REGULATION OF THE PRESSURES IN THE HYDRAULIC CIRCUITS

★ Conditions for checking.
- Engine: at working temperature.
- MIN and MAX. engine speeds: within permissible limits.
- Oil temperature: 45–55 °C.

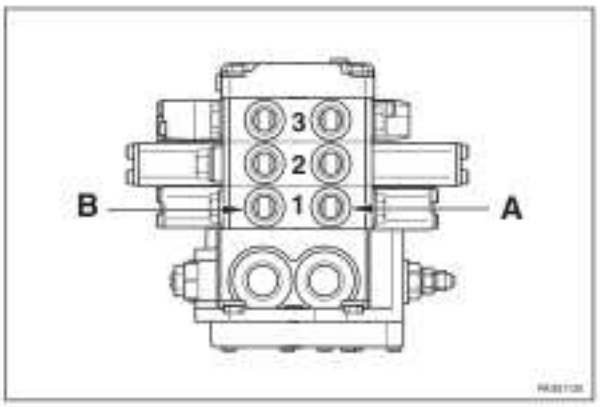
⚠ Before unplugging in order to measure the pressure, release all residual pressure from the circuits (see "ELIMINATION OF RESIDUAL PRESSURES - PRESSURISATION OF THE TANK") and move the safety engagement levers to their locked positions.

⚠ After having connected the pressure gauges, pressurise the tank. For details, see "ELIMINATION OF RESIDUAL PRESSURES - PRESSURISATION OF THE TANK".



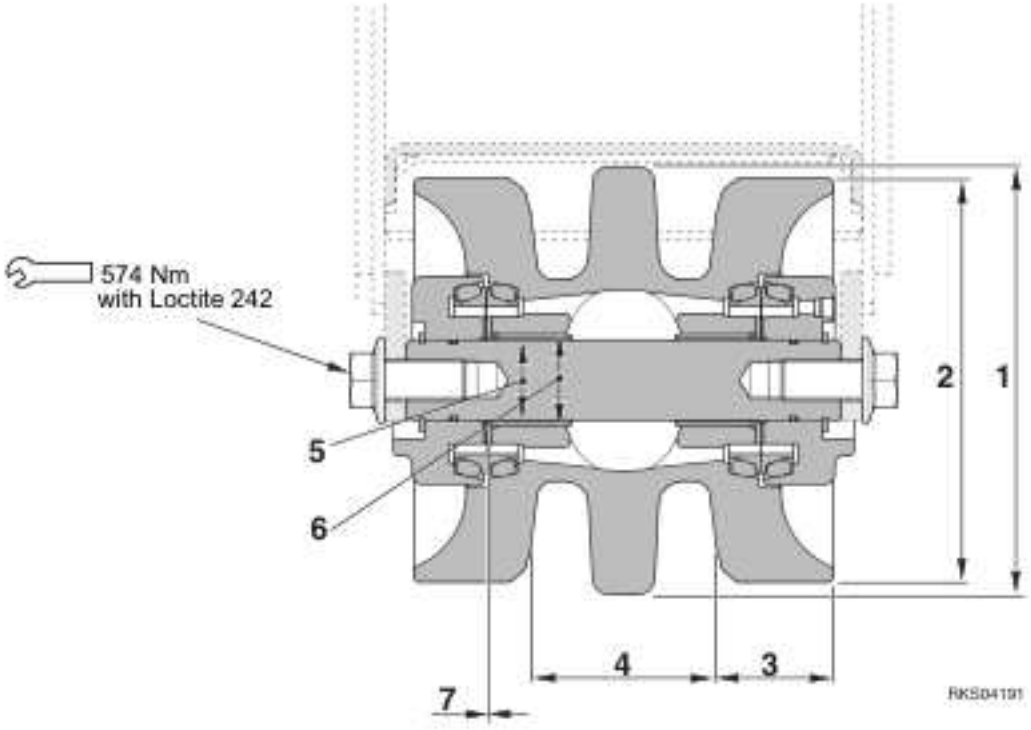
- The control valve consists of the spools that command:

Command	Ports
Arm (Lower - Raise)	A1 - B1
Bucket (Dump - Curled)	A2 - B2
Equipment (R.H. - L.H.)	A3 - B3



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LOWER IDLER ROLLERS

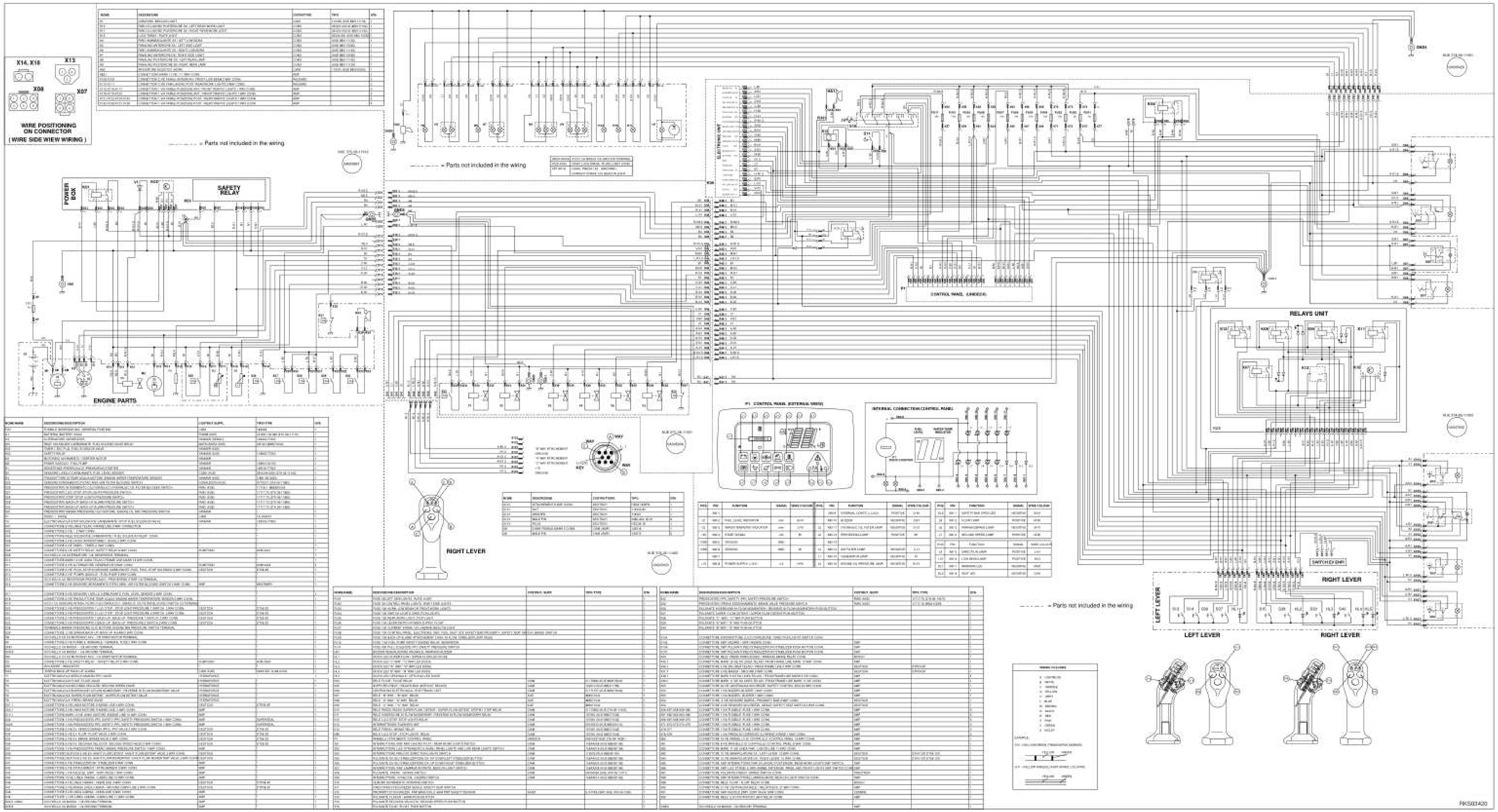


Unit: mm

No.	Check item	Criteria					Remedy
		Standard size			Repair limit		
1	Track guide outer diameter						Reconstruct by welding or replace
2	Track rest outer diameter						
3	Track rest width						
4	Track guide width						
5	Clearance between shaft and bushings	Standard size	Tolerance		Minimum clearance	Clearance limit	Remedy
			Shaft	Hole			Replace
6	Interference between bushing and roller						
7	Roller float	Standard size		Clearancelimit			Replace

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ELECTRICAL DIAGRAM (OPTIONAL)



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