Service Manual

JS240, JS260, JS330, JS360 - Tier 4

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Section 2 - Care and Safety

Section 3 - Maintenance

Section B - Body & Framework

Section C - Electrics

Section E - Hydraulics

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Publication No.

9813/1250-1



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Issued by JCB Technical Publications, JCB Aftermarket Training, Woodseat, Rocester, Staffordshire, ST14 5BW, England. Tel +44 1889 591333 Fax +44 1889 591400

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JS330/360 and Variants

Table 6.

Item	Capacity	Fluid/Lubricant	JCB Part No.	Container Size(1)
ENGINE	51 litres (11.2 UK gal) (13.5 US gal)	JCB Ultimate Performance 15W40 API CJ-4, ACEA E6, E9, JASO DH-2.(2)	4001/2905	20 Litres
COOLING SYSTEM	45 litres (8.9 UK gal) (11.9 US gal)	JCB HP Coolant ⇨ *Coolant Mixtures (🗋 143)*	4006/1120	20 Litres
TRACK GEARBOX	2 x 5 litres (2 x 1.10 UK gal) (2 x 2.32 US gal)	JCB HP90 Gear Oil	4000/0301	5 Litres
SLEW GEARBOX	14.5 litres (3.19 UK gal) (3.83 US gal)		4000/0305	20 Litres
TRACK ROLLERS AND IDLER WHEEL				
RECOIL SPRING CYLINDER		JCB Special HP Grease	4003/2017	400g
HYDRAULIC SYSTEM	430 litres (94.5 UK gal) (113.6 US gal)	JCB Hydraulic Fluid HP32 - 20°C to +15°C (-4°F to 59°F)	4002/1024	200 Litres
		JCB Hydraulic Fluid HP46 - 10°C to +30°C (14°F to 86°F)	4002/0803	
		JCB Hydraulic Fluid HP68 0°C to +40°C (32°F to 104°F)	4002/0701	
SLEW RING - BEARING		JCB Special HP Grease	4003/2017	400g
- GEAR TEETH				
ALL OTHER GREASE POINTS	–		4003/2006	12.5kg
FUEL TANK	590 litres (130 UK gal) (156 US gal)	⇨ *Fuel System (🗋 180)*	-	-

(1) For information about the different container sizes that are available (and their part numbers), contact your JCB Dealer.

(2) Failure to use oil of the correct specification will reduce the life of the engine and the diesel particulate filter.

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Circuit Descriptions - JS330/360

Hydraulic Schematic

JS330

The item numbers in the following table are identified on the Hydraulic Schematic diagrams. ⇨ *Fig 1. (E-58)*

Table 1. Component identification

Item	Part number	Description
1	333/J2160	Slew Motor
2	332/J2616	Rotary Joint
3	331/42428	Dipper Cylinder
4	332/K7572	Dipper HBCV
5	JSA0073	Travel Motor/Gearbox
6	45/910500	Coupling Male 1/2
7	45/910400	Coupling Female 1/2
8	331/58618	Tab Cylinder
9	332/K7580	Boom HBCV LH
10	332/K7579	Boom HBCV RH
11	332/K7728	Bucket Cylinder
12	25/223447	Main Control Valve
13	331/42426	Boom Cylinder
14	JSJ0083	L/F DCV Closed Centre
15	333/J5085	Regen Valve
16	332/J4283	Pressure Switch
17	25/223448	Tab Control Valve
18	JSV0352	Shut Off Valve
19	332/K6937	Hammer/Aux Valve RH
20	332/K6938	Hammer/Aux LH
21	KSJ2390	Check Valve 1 Bar
22	332/J8677	Hammer Return Filter
23	332/K5560	GA Cooling Pack
24	25/222140	Check Valve 3 Bar
25	KNJ0287	Drain Filter
26	32/925692	Breather
27	JRJ0238	Plexus Filter
28	332/K1890	Hydraulic Tank
29	KHJ0568	In Line Filter
30	32/925670	Filter Strainer
31	KRJ2246	Relief Valve
32	JSJ0075	Main Return Filter
33	KTJ1660	Return Manifold
34	332/J0671	Pressure Switch
35	25/221066	Valve Dual Controls
36	332/J0699	Pressure Switch
37	25/222638	Shuttle Valve
38	JSV0329	Merged Valve
39	25/222892	Valve RH Joystick
40	25/220042	Cushion Valve
41	25/222891	Valve LH Joystick
42	332/J0670	Pressure Switch
43	332/K6039	TAB HBCV
44	928/60339	Pilot Valve
45	25/221009	Solenoid Valve
46	KSJ2465	Travel Pilot Valve
47	331/51156	Cab Manifold
48	332/J2973	Pressure Switch
49	332/J4523	8 Station Valve
50	JHJ0050	Accumulator
51	32/925214	Servo Filter
52	332/K5127	Main Pump
53	JTJ0028	Test Point
54	332/K6905	Low Flow Pump

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Fault Finding

Symptom	Possible cause	Remedy
Low secondary pressure.	Primary pressure is low.	Apply the correct primary pressure.
	Spring **4** is damaged.	Renew the spring.
	Clearance between the spool and seating is too large.	Renew the remote control valve assembly.
	The handle unit is loose.	Dismantle, reassemble or renew the handle unit.
Unstable secondary pressure.	Sliding parts are sticking.	Release the sticking part.
	Fluctuations in the tank line pressure.	Check return line and filter for blockage.
	Air is trapped in the piping.	Operate the valve several times to remove the air.
High secondary pressure.	The tank line pressure is too high.	Check return line and filter for blockage.
		Release the sticking part.

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Fig 14.

14 Remove the circlip **13** from its seat in the toothed ring **10**. ⇨ *Fig 15. (F-81)*.



Fig 15.

15 Remove the nos. 2 discs **12**. ⇨ *Fig 16. (F-81)*.



Fig 16.

16 By using a crowbar lift the toothed ring **16** from the gearbox housing **23**. ⇨ *Fig 17. (F-81)*.



Fig 17.

17 Remove the toothed ring **16**. ⇨ *Fig 18. (F-81)*.



Fig 18.

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Fig 34.

7 Lift out 2nd Reduction Sun Gear .



Fig 35.

8 Remove the O-ring from the ring gear. ⇨ *Fig 36. (E-230)*.



Fig 36.

9 Lift out 2nd Reduction Planet gear assembly.



Fig 37.

10 Remove ring gear ⇨ *Fig 38. (E-231)*.

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