Service Manual

JS200-JS260 - Tier III Auto

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Section 2 - Care and Safety

Section 3 - Maintenance

Section B - Body & Framework

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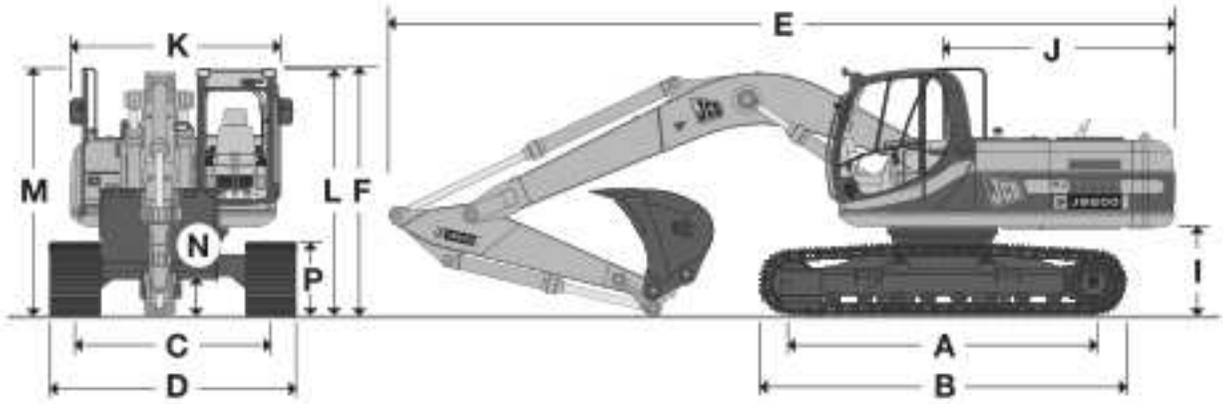
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Technical Data

Static Dimensions

JS200/210/220 - Monoboom



Dimensions in millimetres (ft. in)	SC	NC	LC
A Track length on ground	3370 (11 ft 1 in)	3370 (11 ft 1 in)	3660 (12 ft 0 in)
B Undercarriage overall length	4170 (13 ft 8 in)	4170 (13 ft 8 in)	4460 (14 ft 8 in)
B Undercarriage overall length - JS210 Only	-	-	4460 (14 ft 8 in)
C Track gauge	2200 (7 ft 3 in)	1990 (6 ft 6 in)	2390 (7 ft 10 in)
C Track gauge - JS210 Only	2170 (7 ft 11 in)	-	-
D Width over tracks (500 shoes)	2700 (8 ft 10 in)	2490 (8 ft 2 in)	-
D Width over tracks (600 shoes)	2800 (9 ft 2 in)	2590 (8 ft 6 in)	2990 (9 ft 10 in)
D Width over tracks (700 shoes)	2900 (9 ft 6 in)	2690 (8 ft 10 in)	3090 (10 ft 2 in)
D Width over tracks (800 shoes)	-	-	3190 (10 ft 6 in)
D Width over tracks (900 shoes)	-	-	3290 (10 ft 10 in)

Dipper lengths	1.9m	2.4m	3.0m
E Transport length	9570 (31 ft 5 in)	9560 (31 ft 4 in)	9440 (31 ft 0 in)
F Transport height	3055 (10 ft 0 in)	3060 (10 ft 0 in)	3025 (9 ft 11 in)

Dimensions in millimetres (ft. in)	SC/NC/LC
I Counterweight clearance	1066 (3 ft 6 in)
J Tailswing radius	2825 (9 ft 3 in)
K Width of superstructure	2549 (8 ft 4 in)
L Height over cab	2946 (9 ft 8 in)
M Height over grab rail	3025 (9 ft 11 in)
N Ground clearance	486 (1 ft 7 in)
P Track height	885 (2 ft 11 in)

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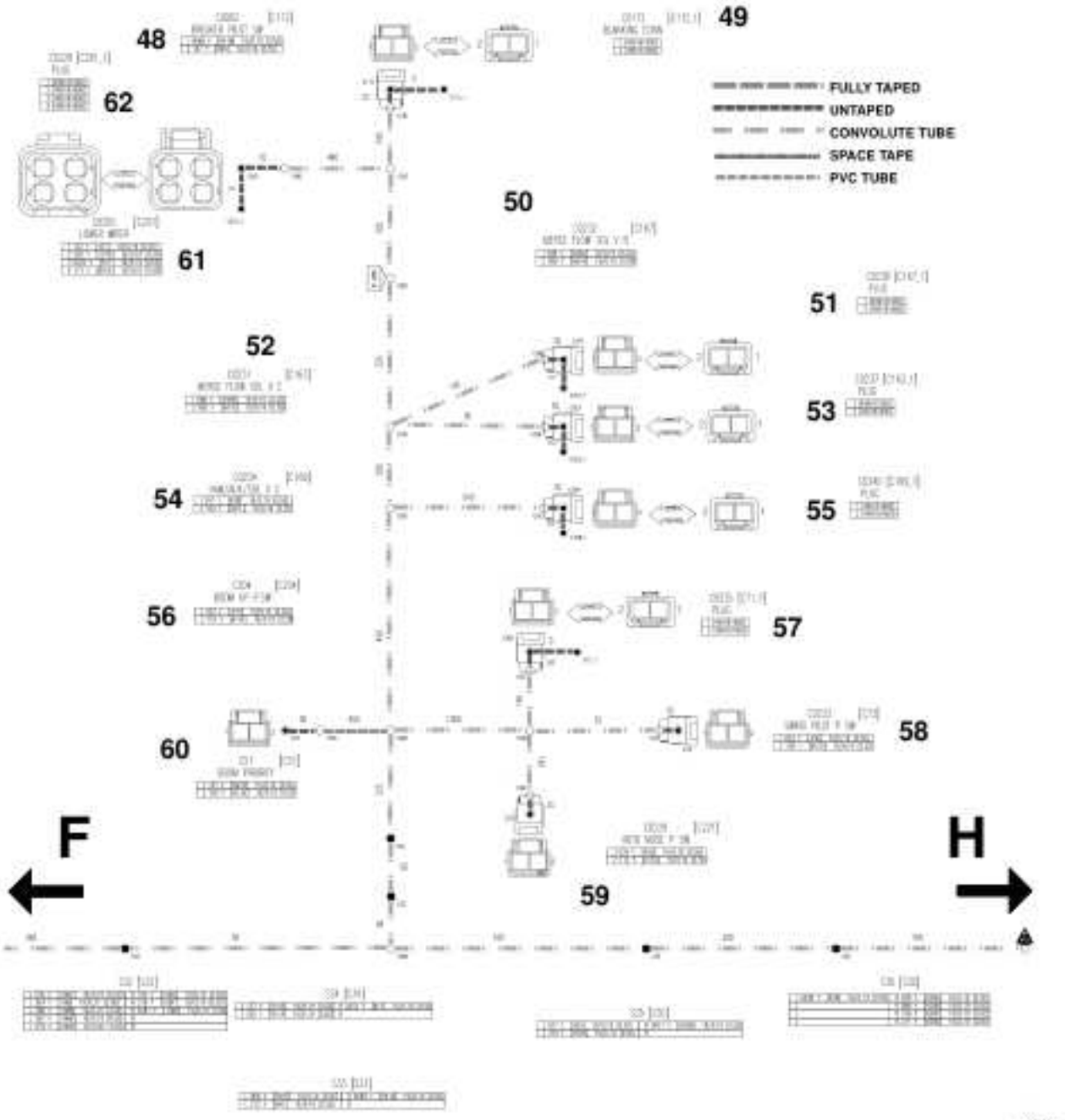


Fig 40. Cab Harness `G' 332/J3254 - Issue 3

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Counterbalance Valve

Symptom	Possible Cause	Remedy
a Motor does not run or rotation speed is slow.	**1** Plunger not switching.	
	i External pilot pressure not present.	Inspect the piping for damage.
	ii Foreign matter between plunger and body.	Completely remove foreign matter, repair any damage and reassemble after cleaning. Renew if damage or leakage is excessive.
	iii Orifice clogged.	Completely remove foreign matter, repair any damage and reassemble after cleaning. Renew if damage or leakage is excessive.
	iv Foreign matter caught between dumper piston and cap.	Renew spring. Completely remove foreign matter, repair any damage and reassemble after cleaning. Renew if damage or leakage is excessive.
b Motor does not stop or stops slowly.	**1** Plunger does not return.	
	i Foreign matter between plunger and body.	Completely remove foreign matter, repair the damaged part and reassemble after cleaning. Renew if damage or leakage is excessive.
	ii Spring broken.	Renew spring. Completely remove foreign matter, repair any damage and reassemble after cleaning. Renew if damage or leakage is excessive.
	iii Spring not fitted.	Fit spring in specified position.
	iv Orifice clogged.	Reassemble after cleaning.
c Rotation varies.	**1** Plunger does not move smoothly.	
	i Foreign matter between plunger and body.	Completely remove foreign matter, repair any damage and reassemble after cleaning. Renew if damage or leakage is excessive.
	ii Orifice clogged.	Reassemble after cleaning.
d Abnormal noise is heard.	**1** Plunger does not return.	
	i Foreign matter between plunger and body.	Completely remove foreign matter, repair any damage and reassemble after cleaning. Renew if damage or leakage is excessive.
	ii Spring broken.	Renew spring. Completely remove foreign matter, repair any damage and reassemble after cleaning. Renew if damage or leakage is excessive.
	iii Orifice clogged.	Reassemble after cleaning.
e Travel not linear.	**1** Dumper piston or cap is excessively worn.	Renew dumper piston and cap. Completely remove foreign matter, repair any damage and reassemble after cleaning.

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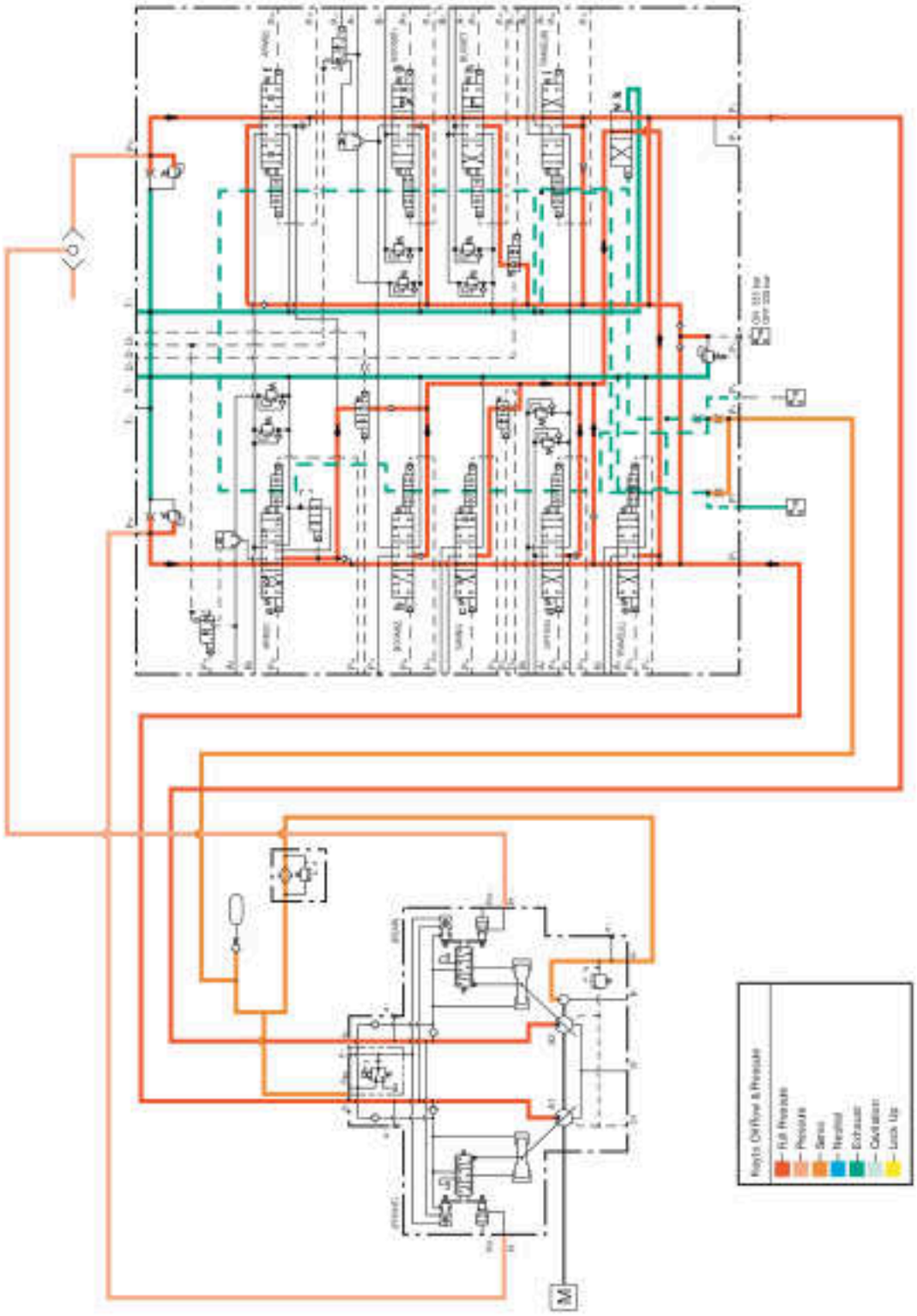


Fig 7. Neutral Circuit

For description, ⇨ *Neutral Circuit (🗋 E-26)*.

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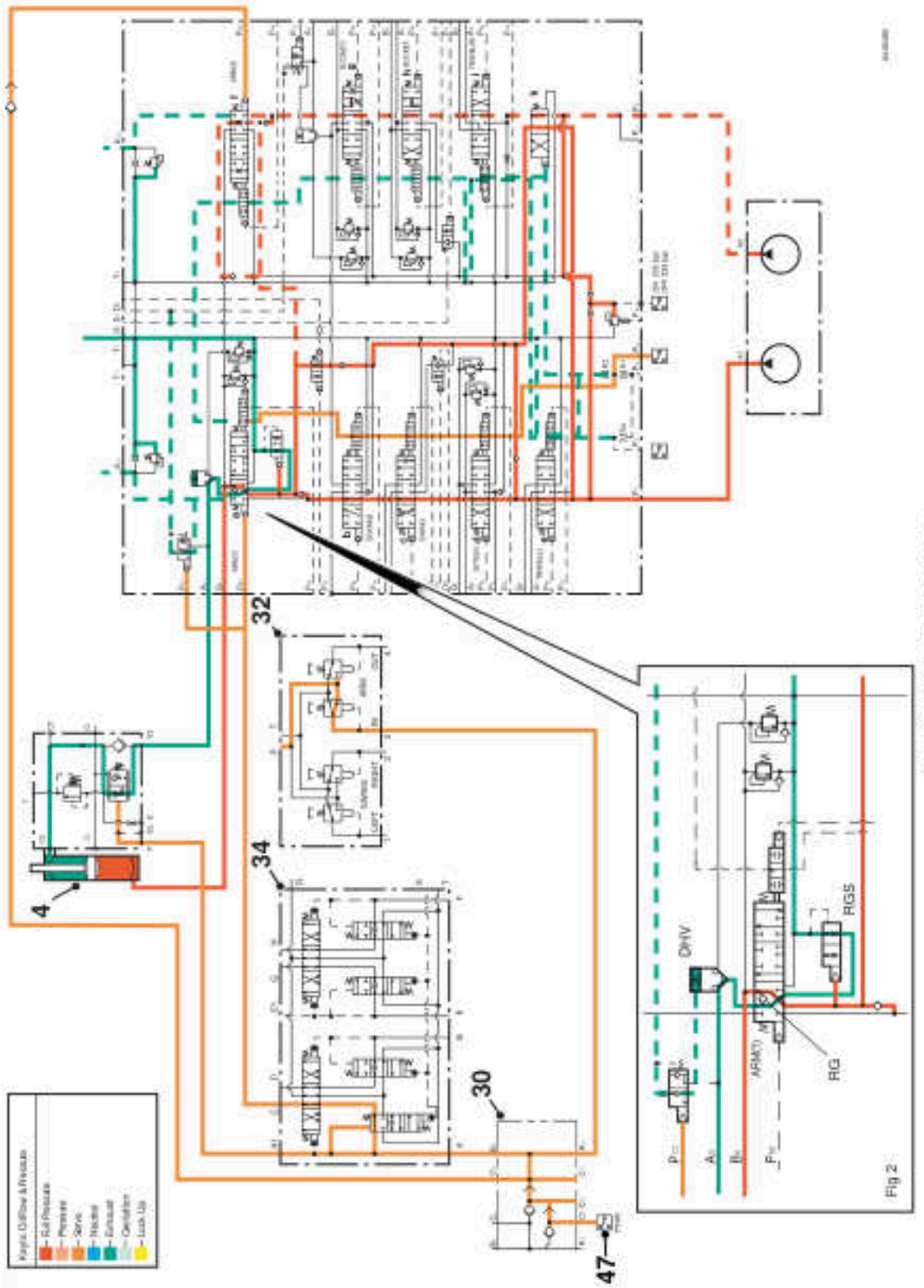


Fig 13. Dipper In Schematic

For Description, ⇒ Dipper In (E-38)

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