OVERALL DIMENSIONS

One - Piece Boom

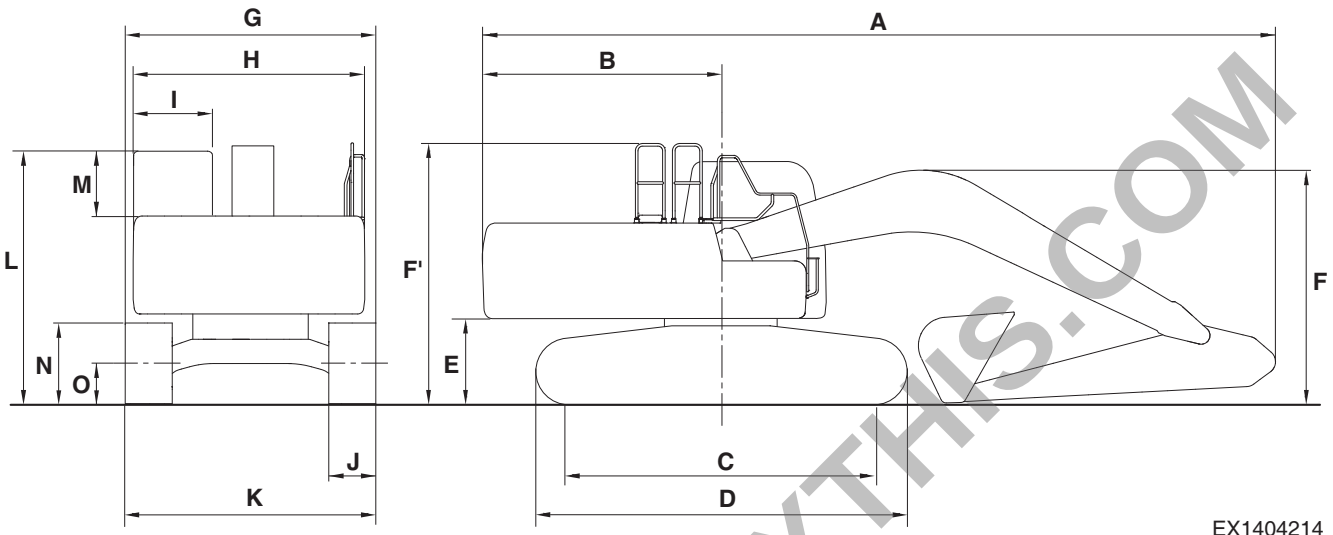


Figure 5

Dimension		5.7 m (18' 8") Boom	
		2.9 m (9' 6") Arm	2.4 m (7' 10") Arm
A	Shipping Length	8,925 mm (29' 3")	9,505 mm (31' 2")
B	Tail Swing Radius	2,755 mm (9' 0")	
C	Tumbler Distance	3,650 mm (12' 0")	
D	Track Length	4,445 mm (14' 7")	
E	Counterweight Clearance	1,090 mm (3' 7")	
F (Boom)	Shipping Height	2,870 mm (9' 5")	2,970 mm (9' 9")
F (Hose)	Shipping Height	3,005 mm (9' 10")	3,130 mm (10' 3")
F' (Guard Rail)	Shipping Height	3,185 mm (10' 5")	
G	Shipping Width	2,540 mm (8' 4")	
H	House Width	2,540 mm (8' 4")	
I	Cabin Width	1,010 mm (3' 4")	
J	Shoe Width	500 mm (1' 8")	
K	Undercarriage Width	2,540 mm (8' 4")	
L	Height Over Cabin	2,985 mm (9' 10")	
M	Cabin Height Above House	840 mm (2' 9")	
N	Track Height	945 mm (3' 1")	
O	Car Body Clearance	475 mm (1' 7")	

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ENGINE SPECIFICATION

Items		Specification
Engine	Type	4-Cycle Water Cooled, Waste Gate Turbocharge, Air to Air Intercooled Direct Injection
	Emission	US EPA Tier 4 Final (EU Stage IV)
	Model	DL 06P
	Injection System	Extra High-pressure Fuel Injection System
	Rated Net Power	167 HP (169 PS) @ 1,800 rpm (SAE J1995)
Valve Clearance	Intake Valve	0.3 mm
	Exhaust valve	0.4 mm
Number of Cylinders and Configuration		6, Straight
Rotating Direction (from Flywheel)		Counterclockwise
Oil Pressure	Max. Permitted	6.1 kg/cm^2 (6 bar, 87 psi)
	Min. Permitted at Idling Speed	1.5 kg/cm^2 (1.5 bar, 21.7 psi)
Using Lubrication Oil		API CJ-4 or Higher
Oil Filter		Paper Filter
Interval Between Oil Changes		500 h
Working Principle		4 Stoke Engine
Cylinder Diameter		100 mm
Piston Stroke		125 mm
Displacement		5,890 cc
Compression Ratio		17.4:1
Low Idle Speed		800 rpm
Max. Full Load Speed		2,000 rpm
Weight, without Coolant and Oil		644 kg
Cooling System	Volume, Excluding Radiator	13,000 cc
	Coolant Temperature	90 ~ 95°C
	Number of Thermostats	1
	Thermostat, Opening Temperature	83°C
Electrical System	Type	1-pin, 24 V, DC
	Starter Motor (Standard Equipment)	1-pin, 24 V, 6 kW
	Alternator (Standard Equipment)	1-pin, 24 V, 50 A

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SAFETY INSTRUCTIONS

⚠ WARNING

AVOID DEATH OR SERIOUS INJURY

Instructions are necessary before operating or servicing machine. Read and understand the Operation & Maintenance Manual and signs (decals) on machine. Follow warnings and instructions in the manuals when making repairs, adjustments or servicing. Check for correct function after adjustments repairs or service. Untrained operators and failure to follow instructions can cause death or serious injury.

GENERAL

Specification

Control Method		Negative Control
Rated Flow		250 L/min (50 L/min in neutral)
Main Relief Pressure	High	348 bar (355 kg/cm^2, 5,047 psi) at 136 L/min
	Low	328 bar (334 kg/cm^2, 4,757 psi) at 156 L/min
Overload Relief Pressure		353 bar (360 kg/cm^2, 5,120 psi) at 20 L/min
Permitted Back Pressure		Max. Pressure of 1.5 MPa or Less
		Used Pressure of 0.5 MPa or Less
Permitted Use of Oil Temperature		Normally -20 ~ +80°C
		Highest 100°C
		(Use of the Rubber for NBR)
Weight		193 kg (425 lb)

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DISASSEMBLY AND REASSEMBLY

1. Choose a work area for disassembly.

   NOTE: *(1) Choose a clean work area.*

   (2) Use a rubber mat or other protective covering on the workbench area to prevent damage or scratching of any precision machined components.

2. For disassembly and reassembly, use torques and tools listed in tables.

3. The directions of disassembly and reassembly are same as the "Disassembly Direction" and "Reassembly Direction" as shown in Figure 1.

4. Disassembly and reassembly of the solenoid valve

   A. Remove coil locknut (2-1) from solenoid valve (2).

IMPORTANT

Take care not to damage the solenoid valve (2) when removing the coil locknut.

If the solenoid valve (2) is damaged (bent or deformed), the solenoid valve may not operate.

   B. Remove coil (2-2) by hand.

   C. Remove solenoid valve (2).

   D. Check disassembled components for damage, and reassemble them in the reverse order of the disassembly.

   E. Do not use excessive torque when assembling he solenoid valve and coil.

IMPORTANT

Excessive torque can damage the solenoid valve.

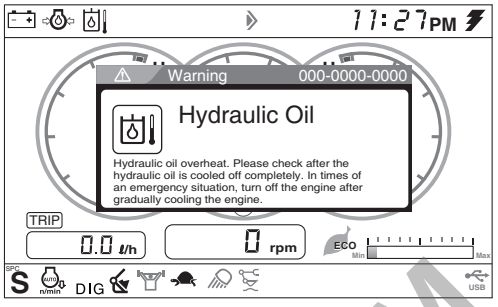
5. Do not allow any contamination to enter the valve during disassembly and reassembly procedures.

6. Every component must be washed out before reassembly.

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When you input service phone numbers, if warning/ alarm is issued, check the input phone numbers in the pop-up window.

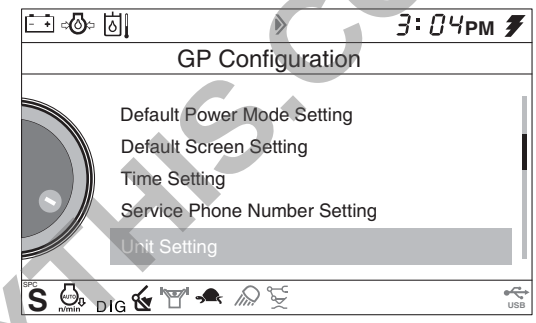


EX1301064

Figure 120

G. Unit Setting

On the GP configuration screen, when cursor is placed on unit setting, click the jog switch to access the unit setting.



EX1403724

Figure 121

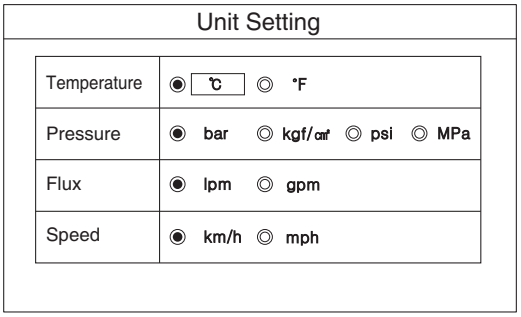
On the unit setting screen, change the units of temperature, pressure, flow rate, and speed. These figures at the vehicle release time are set as below:

Temperature: °C

Pressure: bar

Flow rate: lpm

Speed: km/h

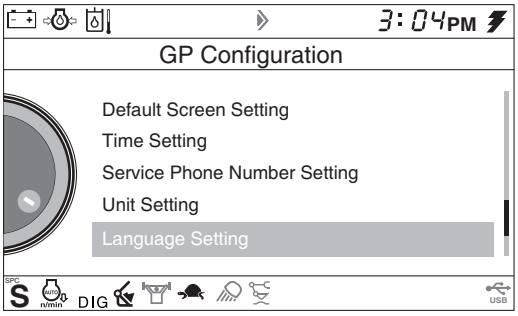


EX1301449

Figure 122

H. Language Setting

On the GP configuration screen, when cursor is placed on language setting, click on the jog switch to access the language setting.



EX1403725

Figure 123

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DX235NLC-5
Hydraulic Schematic

OPTION	APPLIED PART			
SWING ALARM	(31)			
LOCK VALVE	(32) (60)			
ONE-WAY	(33) (36) (37)		TWO PUMP	FILTER
TWO-WAY	(33) (34) (36) (37)	PEDAL (58) (59)	(38) (51)	(35)
ROTATING	(39) (40) (41) (42)			
STRAIGHT TRAVEL	(43)			
QUICK COUPLER	(44) (45)			
ARTI. BOOM	(46) (47) (48) (49) (50) (51)		LOCK VALVE (48)	
INTELLIGENT FLOATING BOOM	(52)			
PATTERN CHANGE VALVE (ISO↔BHL)	(53)			
DOZER	(54) (55) (56) (57)			

STANDARD

1. MAIN PUMP
2. PILOT FILTER
3. SOLENOID VALVE (CUT OFF)
4. ACCUMULATOR
5. SOLENOID VALVE (PACKAGE)
6. JOYSTICK VALVE (L)
7. JOYSTICK VALVE (R)
8. TRAVEL PEDAL VALVE
9. PILOT JOINT BRACKET
10. MAIN CONTROL VALVE
11. BOOM CYLINDER
12. ARM CYLINDER
13. BUCKET CYLINDER
14. SWING DEVICE
15. TRAVEL DEVICE
16. CENTER JOINT
17. BY-PASS CHECK VALVE (C1)
18. BY-PASS CHECK VALVE (C2)
19. OIL COOLER
20. FULL FLOW FILTER
21. AIR BREATHER
22. HYDRAULIC TANK
23. PT BLOCK

OPTION

31. SHUTTLE VALVE(for SWING ALARM)
32. LOCK VALVE(for BOOM)
33. EPPR V/V(for 1 or 2 WAY)
34. EPPR V/V(for 2 WAY)
35. HIGH PRESS. RETURN FILTER
36. PROPORTIOAL RELIEF V/V
37. STOP VALVE
38. TWO PUMP FLOW VALVE
39. PTO
40. GEAR PUMP(for ROTATING)
41. EPPR V/V(for ROTATING)
42. ROTATING VALVE
43. STRAIGHT TRAVEL PEDAL V/V
44. QUICK COUPLER VALVE
45. QUICK COUPLER
46. ARTI. BOOM CYLINDER
47. SHUTTLE VALVE(for ARTI)
48. LOCK VALVE(for ARTI BOOM)
49. ARTI. VALVE
50. ARTI. PEDAL VALVE
51. CENTER BY-PASS CUT-OFF V/V
52. BOOM FLOATING V/V
53. PATTERN CHANGE VALVE
54. DOZER REMOCON. VALVE
55. DOZER VALVE
56. DOZER CYLINDER
57. SHUTTLE VALVE(for DOZER)
58. TWO WAY PEDAL V/V
59. TWO WAY PEDAL SAFETY V/V
60. ARM LOCK VALVE
61. SWITCH VALVE(for CLAMSHELL)

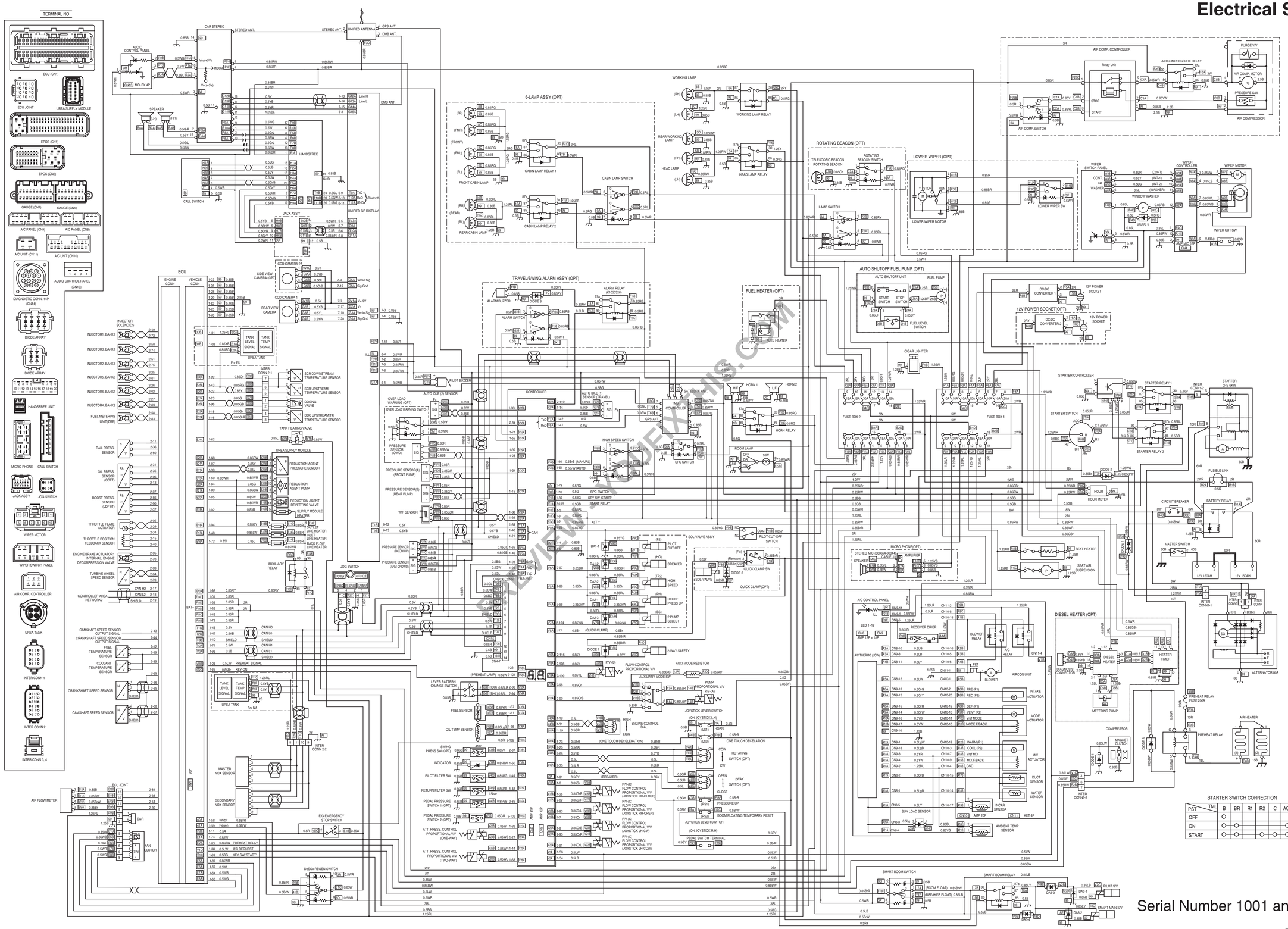
Serial Number 1001 and Up

EX1404688

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DX235NLC-5
Electrical Schematic



Serial Number 1001 and Up

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