OVERALL DIMENSIONS

One - Piece Boom

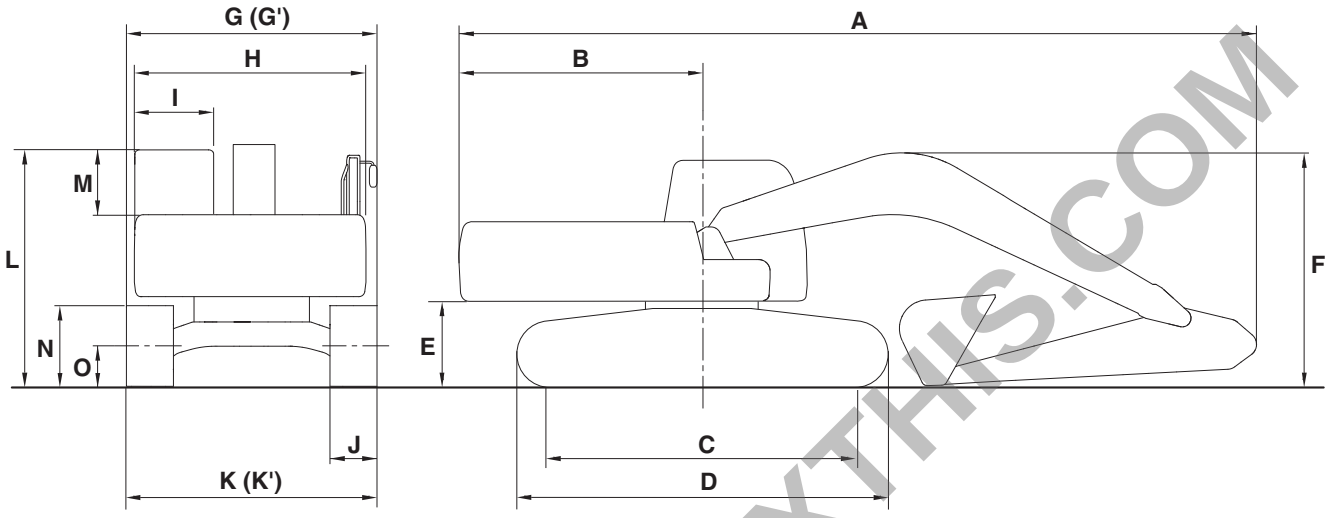


Figure 5

Dimension		5.9 m (19' 4") Boom		
		3.0 m (9' 10") Arm	**2.5 m (8' 2") Arm**	**3.5 m (11' 6") Arm**
A	Shipping Length	10,080 mm (33' 1")	10,145 mm (33' 3")	10,105 mm (33' 2")
B	Tail Swing Radius	3,040 mm (9' 12")		
C	Tumbler Distance	3,835 mm (12' 7")		
D	Track Length	4,630 mm (15' 2")		
E	Counterweight Clearance	1,110 mm (3' 8")		
F (Boom)	Shipping Height	2,995 mm (9' 10")	3,085 mm (10' 1")	3,380 mm (11' 1")
F (Hose)	Shipping Height	3,200 mm (10' 6")	3,300 mm (10' 10")	3,555 mm (11' 8")
G	Shipping Width (STD)	3,200 mm (10' 6")		
G'	Shipping Width (Narrow)	3,000 mm (9' 10")		
H	House Width	2,710 mm (8' 11")		
I	Cabin Width	1,010 mm (3' 4")		
J	Shoe Width	600 mm (2' 0")		
K	Undercarriage Width (STD)	3,200 mm (10' 6")		
K'	Undercarriage Width (Narrow)	3,000 mm (9' 10")		
L	Height Over Cabin	2,995 mm (9' 10")		
M	Cabin Height Above House	840 mm (2' 9")		
N	Track Height	990 mm (3' 3")		
O	Car Body Clearance	450 mm (1' 6")		

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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	141 kW (190 HP) @ 1,900 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	370 kg/cm^2 (363 bar, 5,263 psi) at 136 L/min
	Low	350 kg/cm^2 (343 bar, 4,978 psi) at 156 L/min
Overload Relief Pressure		380 kg/cm^2 (373 bar, 5,405 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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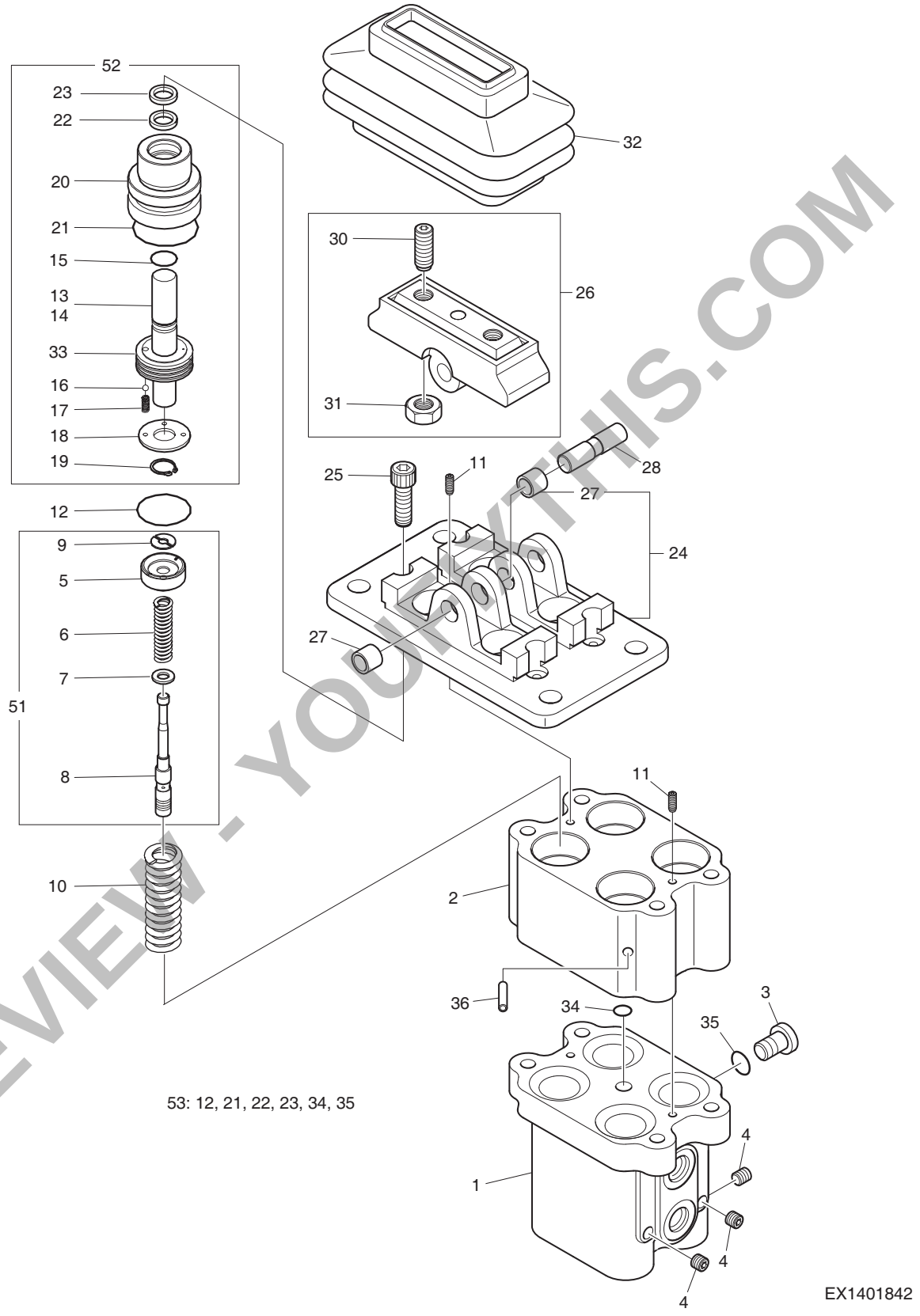


Figure 4

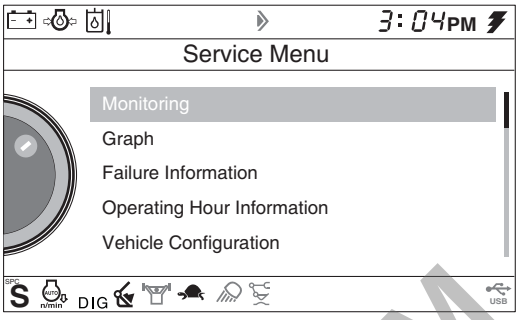
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Special Menu Screen

NOTE: *Displayed language on the special menu screen consists of Korean and English.*

If any language except for Korean is selected during language selection mode of main menu, only English will be displayed on special menu screen.



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Figure 129

Exiting/Escaping Menus

1. If escape button (ESC, 4 on Figure 127) is pressed the special menu screen will be returned to the normal mode screen.
2. If this special menu is "ON" without any activity, for more than 20 seconds, it will return to the normal mode screen.
3. After the turning starter switch to "OFF" position, turn it back to "ON" position, and the normal mode screen displayed once again.

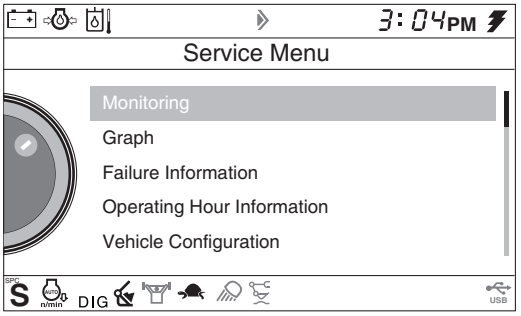
Special Menu Selections

Submenu Selection Method

Various submenus can be selected by turning the jog switch and moving the cursor to see a reversed display on the desired menu. Then, click on the jog switch to select the menu.

Press the ESC button to return to the previous screen.

Entering Submenus: When cursor is located on "Machine Info" of special menu screen, press "Enter (↵, 3 on Figure 127)" button and the "Machine Info" will be displayed.

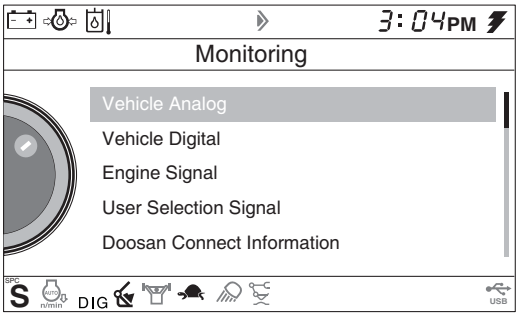


EX1301082

Figure 130

Monitoring

1. Entering Submenus: When cursor is located on "Monitoring" of special menu screen, press the jog switch and the "Monitoring" will be displayed.
2. Exiting Submenus: If escape button (ESC, 4 on Figure 127) is pressed display will be turned to previous screen.



EX1301083

Figure 131

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DX255LC-5
Hydraulic Schematic

OPTION	APPLIED PART			
SWING ALARM	(31)			
LOCK VALVE	(32) (56)			
ONE-WAY	(33) (36) (37)		TWO PUMP	FILTER
TWO-WAY	(33) (34) (36) (37)	PEDAL (54) (55)	(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)	
BOOM FLOATING	(52)			
PATTERN CHANGE(ISO↔BHL)	(53)			

STANDARD

1. MAIN PUMP
2. PILOT FILTER
3. SOLENOID VALVE (CUT OFF)
4. ACCUMULATOR
5. SOLENOID PACKAGE VALVE
6. JOYSTICK VALVE(L)
7. JOYSTICK VALVE(R)
8. 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 1/2 WAY)
34. EPPR V/V(For 2 WAY)
35. HIGH PRESS. RETURN FILTER
36. PROPORTIONAL RELIEF V/V(For 1/2 WAY)
37. STOP VALVE
38. TWO PUMP VALVE
39. POWER TAKE-OFF
40. GEAR PUMP(For ROTATING)
41. EPPR V/V(For ROTATING)
42. ROTATING VALVE
43. OPT. PEDAL V/V(For STRAIGHT TRAVEL)
44. QUICK CLAMP VALVE
45. QUICK CLAMP
46. ARTI. BOOM CYLINDER
47. OPT. SHUTTLE VALVE(ARTI)
48. LOCK VALVE(For ARTI. BOOM)
49. CONTROL VALVE(For ARTI. BOOM)
50. OPT. PEDAL VALVE(For ARTI. BOOM)
51. SHIFT VALVE(For ARTI. OR TWO PUMP)
52. INTELLIGENT FLOATING BOOM VALVE
53. PATTERN CHANGE VALVE
54. OPT. PEDAL V/V(For 2 WAY)
55. 1-SOLENOID V/V(For 2 WAY PEDAL SAFETY)
56. LOCK VALVE(For ARM)

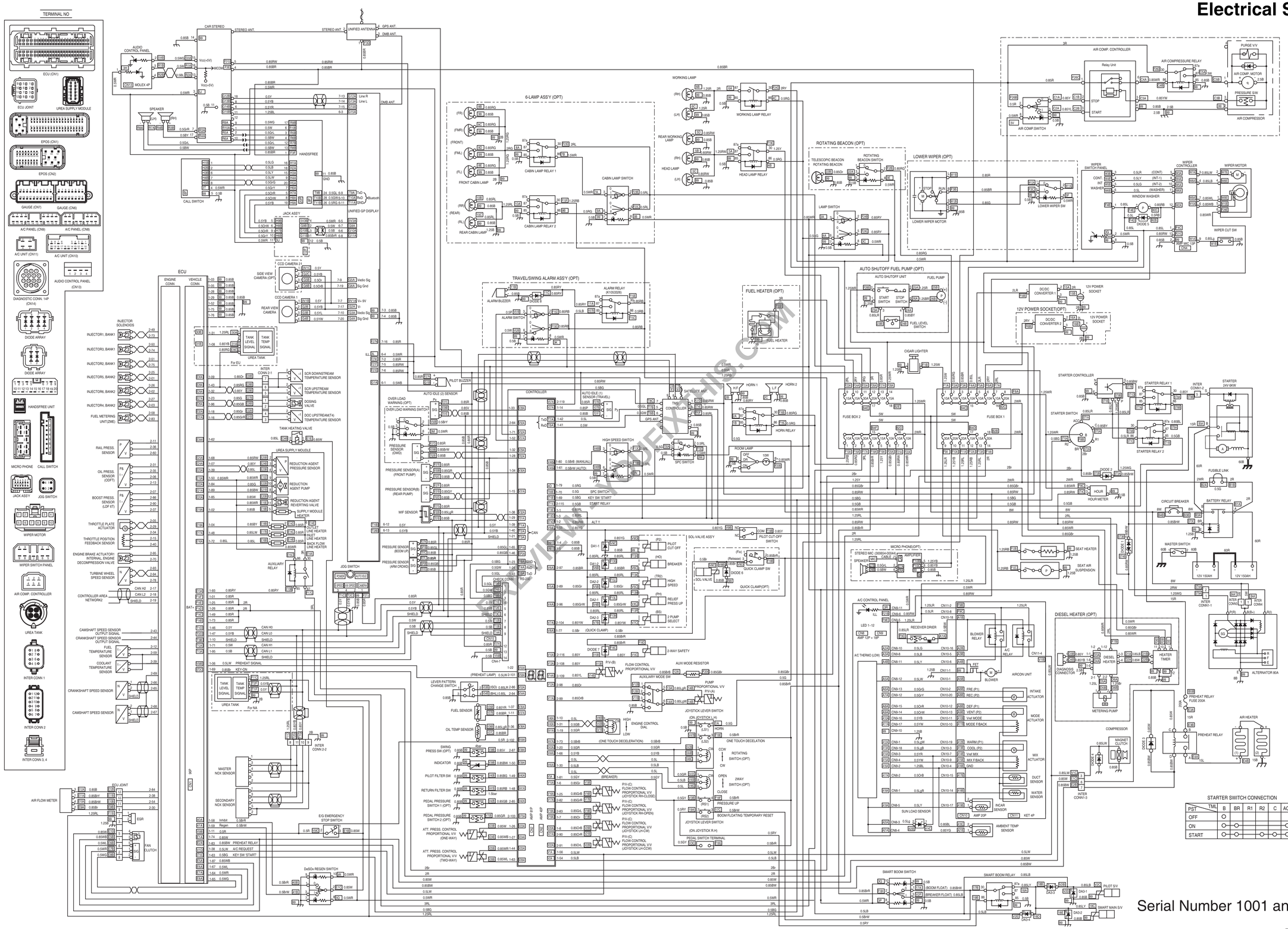
Serial Number 1001 and Up

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DX255LC-5
Electrical Schematic



Serial Number 1001 and Up

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