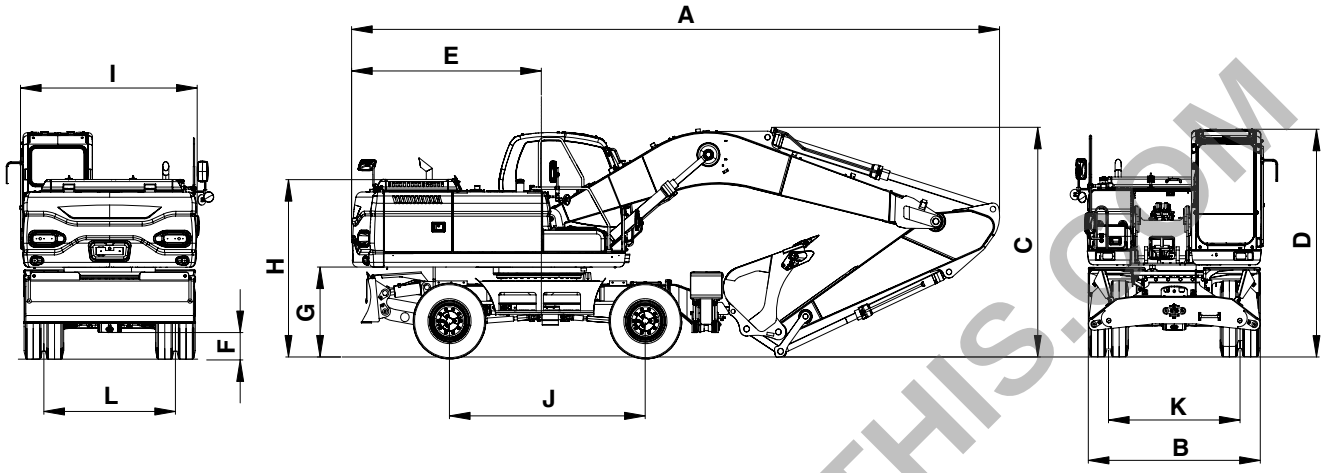
GENERAL DIMENSIONS

One-Piece Boom



FG008161

Figure 2

No.	Description	Dimension							
		5.6 m (18' 4") One-Piece Boom							
		3.0 m (9' 10") Arm		2.75 m (9') Arm		2.4 m (7' 10") Arm		2.0 m (6' 7") Arm	
A	Shipping Length	9,400 mm	30' 10"	9,420 mm	30' 11"	9,470 mm	31' 8"	9,520 mm	31' 3"
B	Shipping Width	2,500 mm	8' 2"	2,500 mm	8' 2"	2,500 mm	8' 2"	2,500 mm	8' 2"
C	Shipping Height (Boom)	3,490 mm	11' 5"	3,200 mm	10' 6"	3,200 mm	10' 6"	3,250 mm	10' 8"
D	Height Over Cab	3,140 mm	10' 4"	3,140 mm	10' 4"	3,140 mm	10' 4"	3,140 mm	10' 4"
E	Counter Weight Swing Clearance	2,750 mm	9'	2,750 mm	9'	2,750 mm	9'	2,750 mm	9'
F	Ground Clearance	350 mm	1' 2"	350 mm	1' 2"	350 mm	1' 2"	350 mm	1' 2"
G	Frame Clearance	1,259 mm	4' 2"	1,259 mm	4' 2"	1,259 mm	4' 2"	1,259 mm	4' 2"
H	Engine Cover Height	2,485 mm	8' 2"	2,485 mm	8' 2"	2,485 mm	8' 2"	2,485 mm	8' 2"
I	Upper Housing Width	2,530 mm	8' 4"	2,530 mm	8' 4"	2,530 mm	8' 4"	2,530 mm	8' 4"
J	Wheel Base	2,850 mm	9' 4"	2,850 mm	9' 4"	2,850 mm	9' 4"	2,850 mm	9' 4"
K,L	Tread Width	1,914 mm	6' 3"	1,914 mm	6' 3"	1,914 mm	6' 3"	1,914 mm	6' 3"

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SYSTEM COMPONENT SPECIFICATIONS

DRIVE SYSTEM	
Propeller Shaft (Front and Rear)	
Max. Allowable Torque	425 kg•m (3,074 ft lb)
Max. Joint Angle	22.5°
Max. Rotating Speed	5,000 rpm
Tire and Wheel; Standard	
Type	Double
Tire	10.00 - 20 - 14PR, OTR, Tube
Rim	7.5V x 20
Disc Offset	155 mm (6.1 in)
SWING MECHANISM	
Swing Reduction Gear	
Drive Type	2-Stage Planetary Gear
Reduction Ratio	19.636
Max. Output Speed	81 rpm
Max. Output Torque	1,178 kg•m (8,521 ft lb)
Pinion Gear (Built in Reduction Gear)	
Type	Spur Gear
Gear P.C.D	Dia 156 mm (6.14 in)
No. of Teeth	13
Module	12
Swing Bearing	
Type	Ball Bearing, Internal Gear
Gear P.C.D	Dia 1,104 mm (43.46 in)
No. of Teeth	92
Ball Dia.	Dia 31.75 mm (1.25 in)
Race O.D.	Dia 1,327 mm (52.24 in)
Race Height	111.5 mm (4.39 in)
Static Thrust Load	39,500 kg (87,083 lb)
Weight	255 kg (562 lb)
Swing Performance	
Max Swing Speed	11 rpm
Max Swing Torque	6,387 kg•m (46,197 ft lb)
Parking Brake	
Control Type	Pilot Pressure, Mechanical
Brake Torque	63 kg•m (456 ft lb)
Brake Release Pressure	23.0 kg/cm^2 (327 psi)

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Transmission

Edition 1

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Table 1 Parts Information and Torque for Figure 6			
Reference Number	**Description**	**Qty.**	**Torque (See Table 2)**
1	Spring Pin	4	
2	Insert	4	
3	Bolt	4	Ta
4	Flywheel	1	
5	Spring Pin	8	
6	Insert	4	
7	Hub	1	
8	Bolt	4	Ta
9	Pump shaft	1	
10	Clamping screw	2	Tb
11	Element	1	

Specification for "Measurement H," from front hub face to pump shaft end, and TIGHTENING TORQUE of bolts and screws written in the "Table 2" must be observed.

Table 2 Specification for "Measurement H" and Torque (Refer to Figure 6)				
Model	**Coupling Part Number**	**"Measurement H"**	**Torque Value for "Ta"**	**Torque Value for "Tb"**
DX140W	K1013823	8.0 - 9.0 mm (0.315 - 0.354 in)	21 - 23 kg•m (152 - 166 ft lb)	10 - 12 kg•m (72 - 87 ft lb)
DX160W				
DX180LC				
DX190W	K1013827	6.0 - 7.0 mm (0.2362 - 0.2756 in)	21 - 23 kg•m (152 - 166 ft lb)	10 - 12 kg•m (72 - 87 ft lb)
DX210W				
S300LC-V	414-00040	5.5 - 6.5 mm (0.216 - 0.256 in)	44 - 49 kg•m (318 - 354 ft lb)	20 - 22 kg•m (145 - 159 ft lb)
S300LL				
S340LC-V	414-00041	6.5 - 7.5 mm (0.256 - 0.295 in)	44 - 49 kg•m (318 - 354 ft lb)	20 - 22 kg•m (145 - 159 ft lb)
S420LC-V				
S470LC-V				

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3. Normal Operation Display Readout

Mode Selection		Display Readout		Operation Status
		Upper Digit	Lower Digit	
Power Mode	Power Mode	 HAOH340L		Normal Operation Power Mode
	Standard Mode	 HAOH350L		Normal Operation Standard Mode
Work Mode	Digging		 HAOH370L	Normal Operation Digging Mode
	Trenching		 HAOH380L	Normal Operation Trenching Mode

4. Communication Monitor

What are shown in the 7-SEGMENT LED are same as those in the Error Codes.

Error Code	Indication Code	Fault Location
V201	01	Communication error in instrument panel.
V202	02	Communication error in engine controller.

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DX210W (ONE-PIECE BOOM)

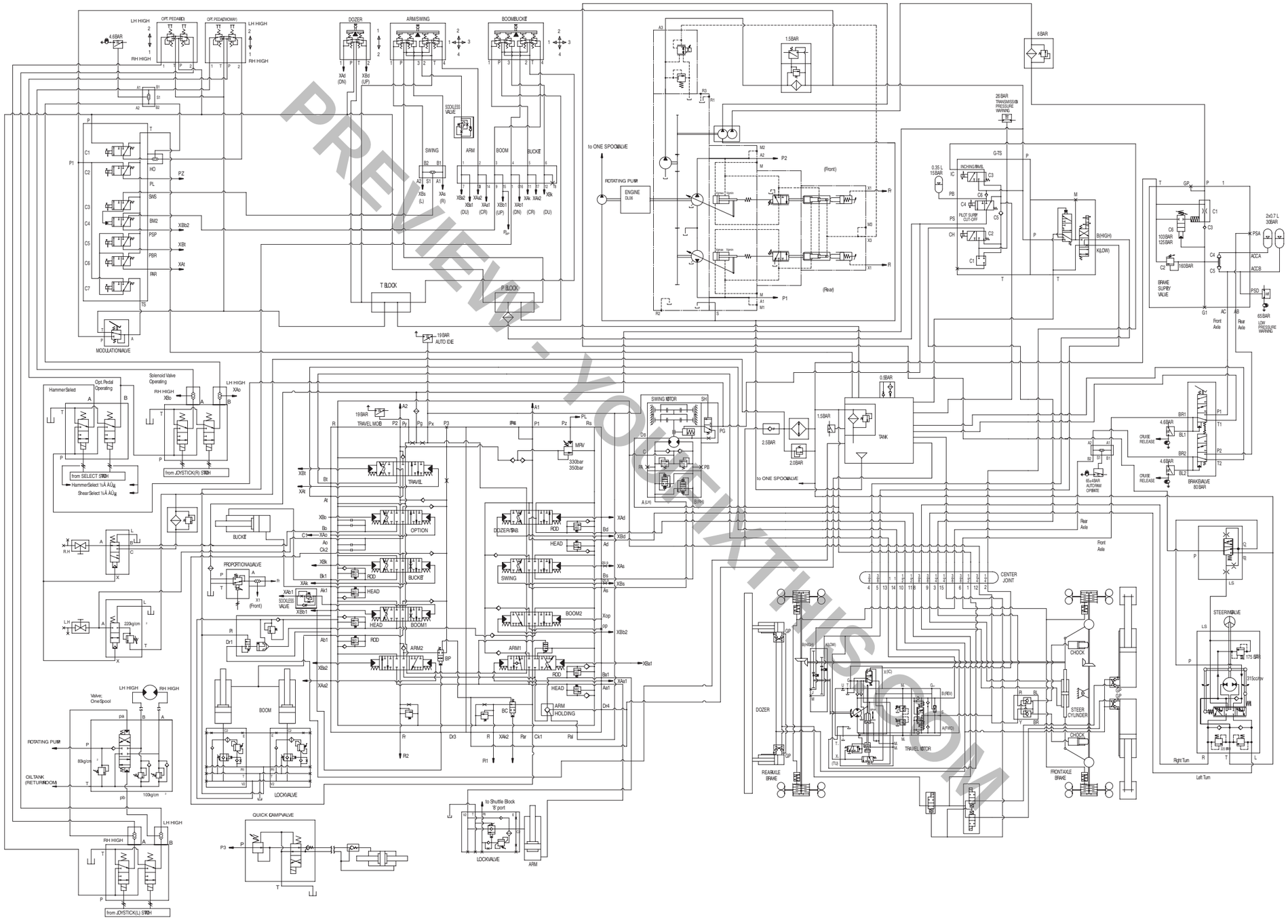


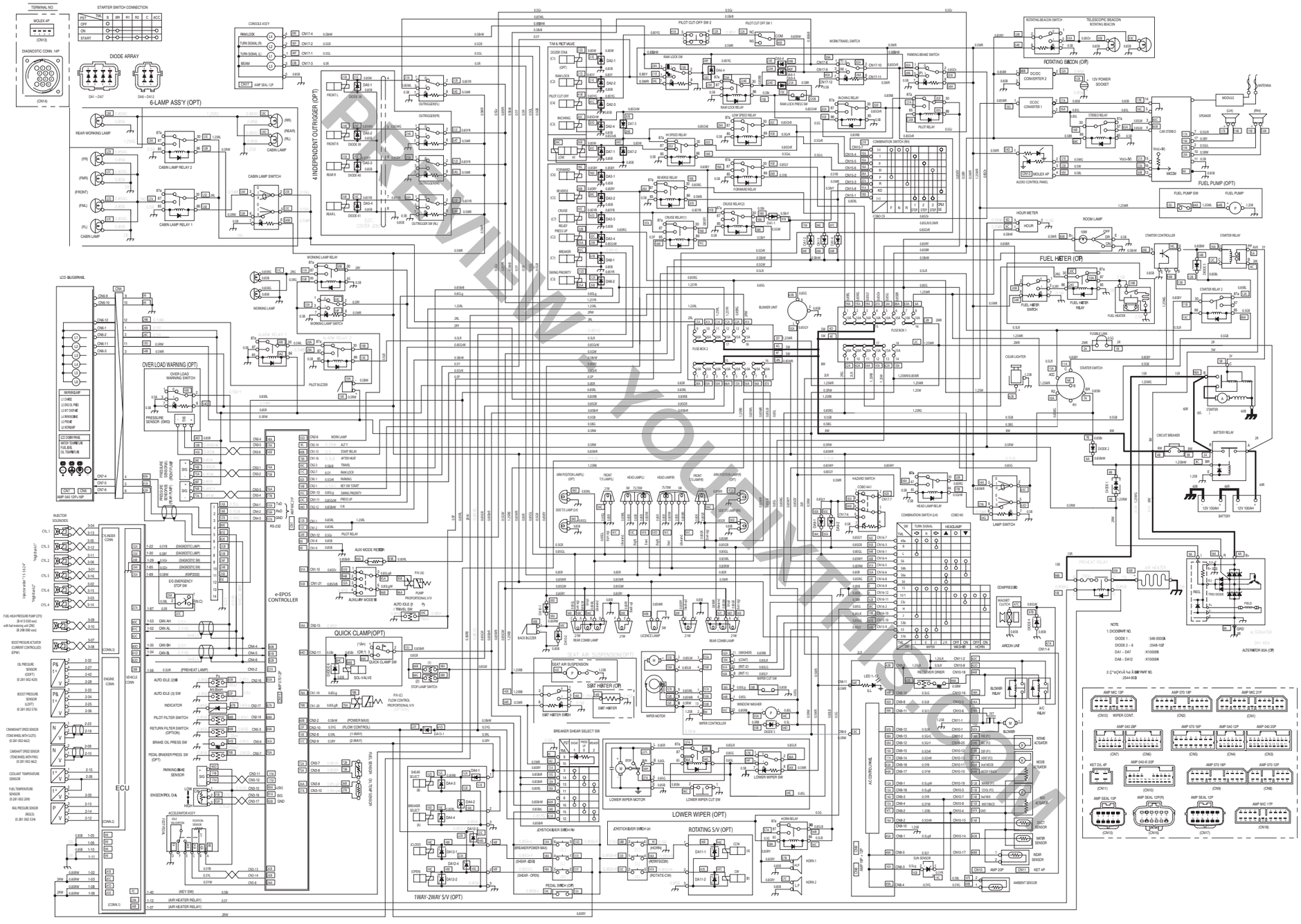
Figure 2

FG008729

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DX210W


TERMINAL NO
STARTER SWITCH CONNECTION
DIODE ARRAY
6-LAMP ASS'Y (OPT)
4 INDEPENDENT OUTRIGGER (OPT)
LCD GAUGE PANEL
OVER LOAD WARNING (OPT)
ECU
e-EPOS CONTROLLER
QUICK CLAMP(OPT)
SEAT AIR SUSPENSION(OPT)
SWING PRIORITY
SWING PARKING
SWING BRAKE
SWING MOTOR
SWING MACHINERY
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