GENERAL SPECIFICATIONS (DX480LC)

Shipping Weight	NON-ROPS	47,000 kg (103,617 lb)
	ROPS	47,110 kg (103,860 lb)
	Includes 10% fuel, 7,100mm (23' 4") boom, 3,350 mm (11' 2") arm, 1,681 mm (5' 6") backhoe bucket and standard shoes	
Operating Weight	Add weight of full fuel tank and operator.	
Shipping Weights With Optional Track Shoes	Add 700 kg (1,540 lb) for 750 mm (29.5") shoes	
	Add 1000 kg (2,204 lb) for 800 mm (31.5") shoes	
	Add 1,500 kg (3,310 lb) for 900 mm (35.5") shoes	
Major Component Weights	Standard Boom 3,490 kg (7,700 lb)	
	6,300 mm (20' 8") Boom 3,390kg (7,480 lb)	
	2,900 mm (8' 2") Arm 900 kg (1,984 lb)	
	3,350 mm (11' 0") Arm 1,620 kg (3,570 lb)	
	4,000 mm (12' 4") Arm 1,060 kg (2,337 lb)	
	Boom Cylinders 402 kg (890 lb) each	
	Arm Cylinder 620 kg (1,370 lb)	
	Bucket Cylinder 380 kg (838 lb)	
	Counterweight 8,500 kg (18,700 lb)	
	Upper Turntable 9,915 kg (21,900 lb)	
	Lower - below Swing Bearing 18,800 kg (41,400 lb)	
Digging Forces:		
Bucket Cylinder	267 KN or 27,200 kg (60,000 lb) with 3,350 mm [11' 0"] standard arm	
Arm Cylinder	216 KN or 22,000 kg (48,500 lb) with 3,350 mm (11' 0") standard arm	
Fuel Tank Capacity	620 liters (164 U.S. gal)	
Hydraulic System Capacity	500 liters (132 U.S. gal)	
Hydraulic Reservoir Capacity	265 liters (70 U.S. gal)	
Bucket Heaped Capacity Range	PCSA 1.71 - 2.86 m^3 (2.24 - 3.73 yd^3)	
	IMPORTANT: Refer to the Load Weight, Bucket and Arm Length Compatibility Table for information on which bucket sizes may be used safely with which arm length, for load material weights.	
Shoe Type	Triple Grouser	
Shoe Width and Optional Sizes	600 mm (23.6") - standard	
	750 mm (29.5") - optional	
	800 mm (31.5") - optional	
	900 mm (35.5") - optional	
Ground Pressure Ratings:		
Standard 600 mm (23.6") shoe -	0.81 kg/cm^2 (11.5 psi)	
Optional 750 mm (29.5")shoe -	0.67 kg/cm^2 (9.5 psi)	
Optional 800 mm (31.5") shoe -	0.62 kg/cm^2 (8.8 psi)	
Optional 900 mm (35.5")shoe -	0.56 kg/cm^2 (7.9 psi)	

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PERFORMANCE TESTS

1. Main Relief Pressure

   normal operation: 320 kg/cm^3 (4,641 psi)

   with "Pressure Up": 350 kg/cm^3 (4,970 psi)

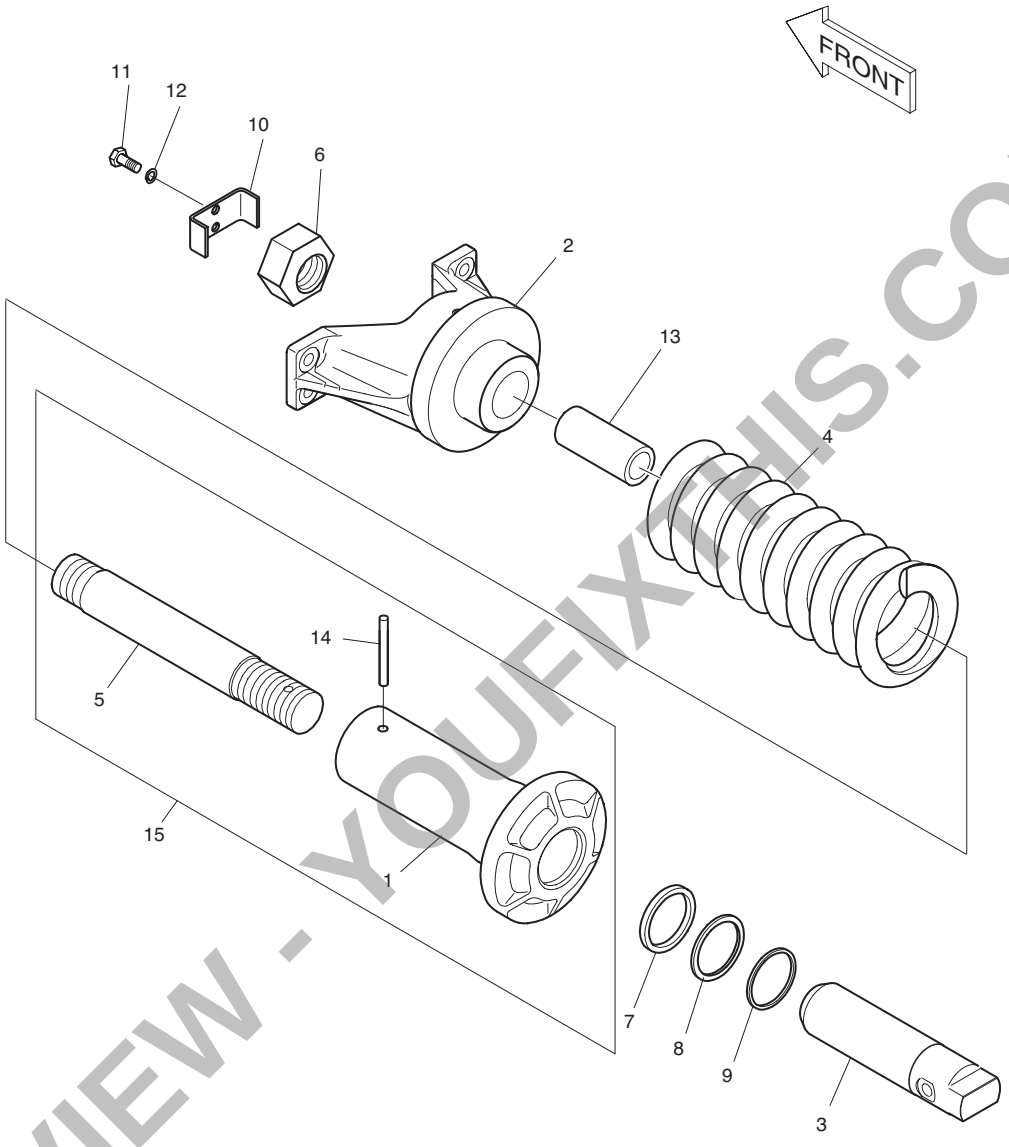
2. Actuator Speeds

Operation		Unit	Standard Mode	Power Mode
Boom	Up	sec	4.6 ±0.4	4.2 ±0.4
	Down	sec	3.1 ±0.3	3.0 ±0.3
Arm	Dump	sec	3.6 ±0.3	3.3 ±0.3
	Crowd	sec	4.4 ±0.4	4.2 ±0.4
Bucket	Dump	sec	3.3 ±0.3	3.1 ±0.3
	Crowd	sec	3.3 ±0.4	3.1 ±0.4
Swing (3 Revolutions)		sec	21.5 ±1.5	20.5 ±1.5
Jack-up Speed (3 Turns)	High	sec	25.9 ±1.5	24.3 ±1.5
	Low	sec	42.1 ±2.0	39.7 ±2.0
Travel Speed 20 m (66 ft)	High	sec	15.2 ±1.0	14.4 ±1.0
	Low	sec	24.7 ±1.5	23.5 ±1.5
Travel Deviation 20 m (66 ft)	High	mm (in)	150 (6)	150 (6)
	Low	mm (in)	150 (6)	150 (6)

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TRACK SPRING AND TRACK ADJUSTING CYLINDER



FG004444

Figure 46

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Reassembly of Subspool (20)

1. Install spool assembly in valve hole it was removed from during disassembly.
2. Install spring seat (21) and spring (22).
3. Tighten plug (23) with O-ring (72). Torque is 9.48 - 11.01 kg•m (69 - 80 ft lb).

Reassembly of Main Spool (3) - (11)

1. Install O-ring on valve housing (1,2).
2. Fasten short cap (74) with socket head bolt (63) for travel straight spool (7). Fasten short cap (13) with socket head bolt (63) for the other travel straight spools. Torque is 10.50 - 11.52 kg•m (76 - 83 ft lb).
3. Install spools (3 - 11) in valve holes they were removed from during disassembly.
4. Fasten long cap (73) with socket head bolt (63) on travel straight spool (7). Fasten long cap (12) with socket head bolt (63) on other travel straight spools. Torque is 10.50 - 11.52 kg•m (76 - 83 ft lb).

IMPORTANT

When assembling, be careful not to drop O-ring from mating surface.

Reassembly of Other Plugs

1. Tighten plug assembly (60) with O-ring. Torque is 3.16 - 4.28 kg•m (23 - 31 ft lb).
2. Tighten plug assembly (61) with O-ring. Torque is 11.83 - 13.05 kg•m (86 - 94 ft lb).
3. Tighten plug assembly (62) with O-ring. Torque is 7.44 - 8.06 kg•m (54 - 58 ft lb).
4. Tighten plug assembly (58) with O-ring and backup ring. Torque is 7.95 - 8.97 kg•m (58 - 65 ft lb).
5. Tighten plug assembly (51) with O-ring. Torque is 10.50 - 11.52 kg•m (76 - 83 ft lb).
6. Tighten plug assembly (59) with O-ring. Torque is 7.44 - 8.06 kg•m (54 - 58 ft lb).

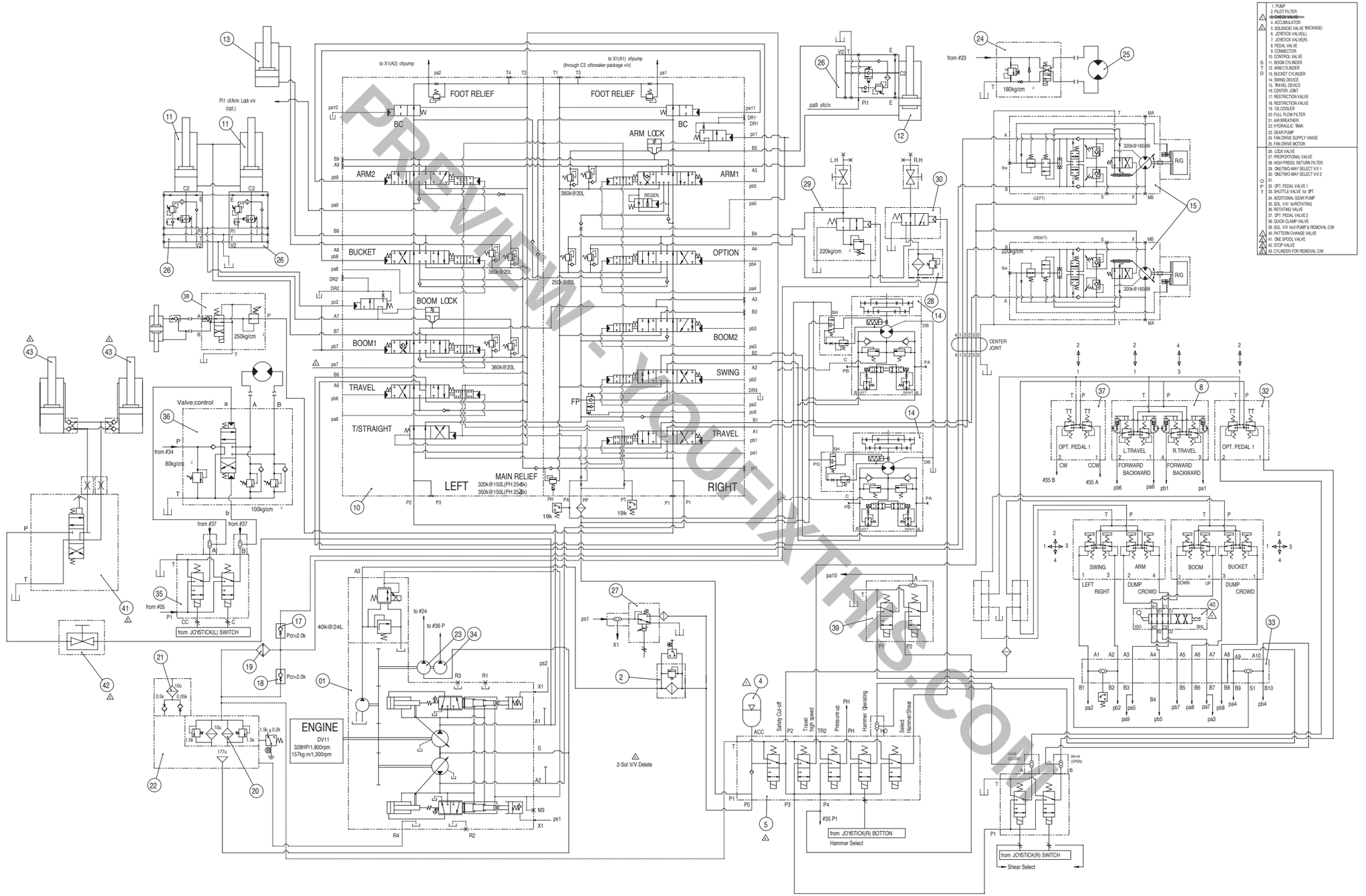
IMPORTANT

After reassembly is completed, recheck tightening torque of all components. If they are not properly tightened, an oil leak can occur. The torque values are based on the threads being lubricated.

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DX480LC/520LC



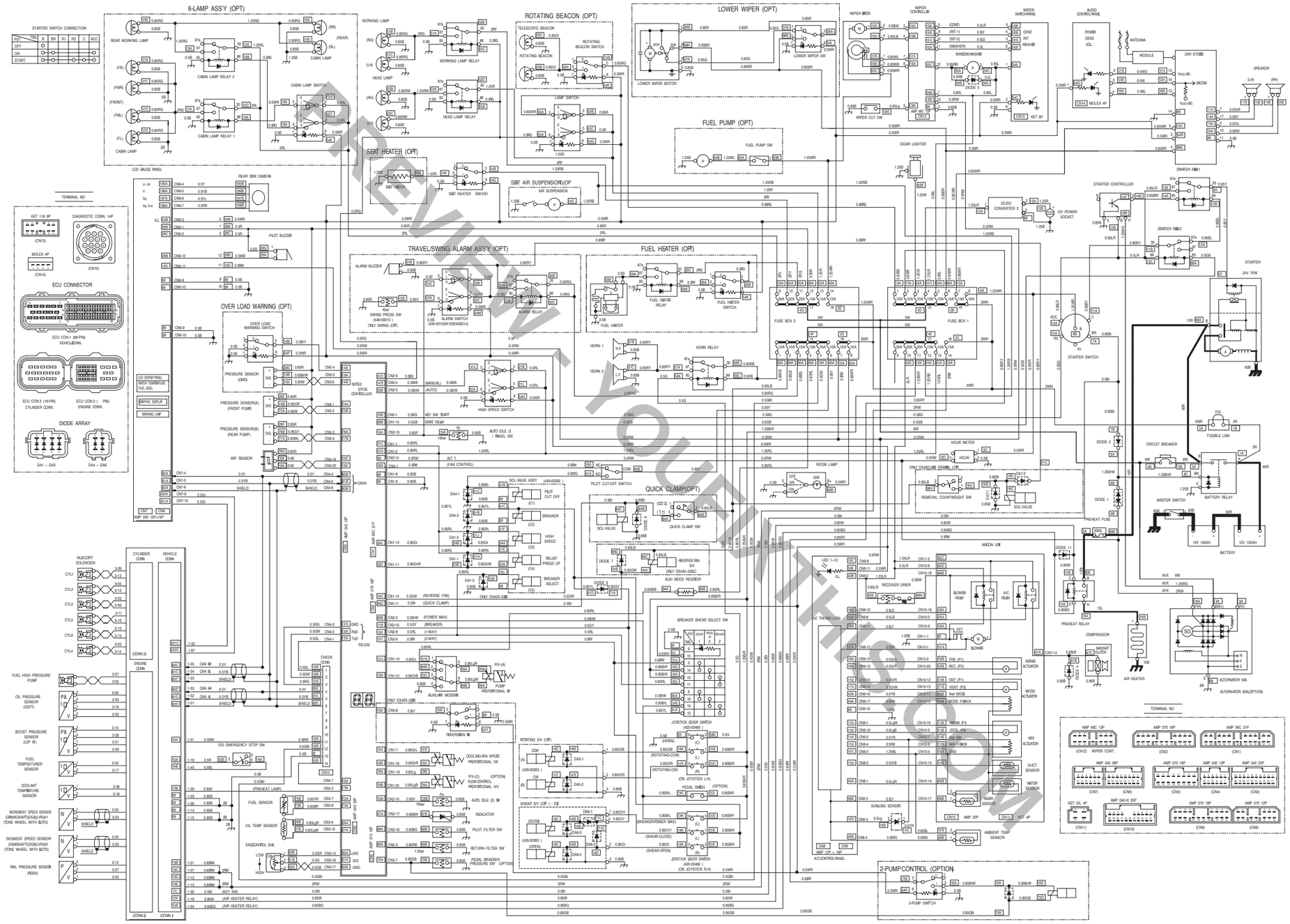
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Figure 1

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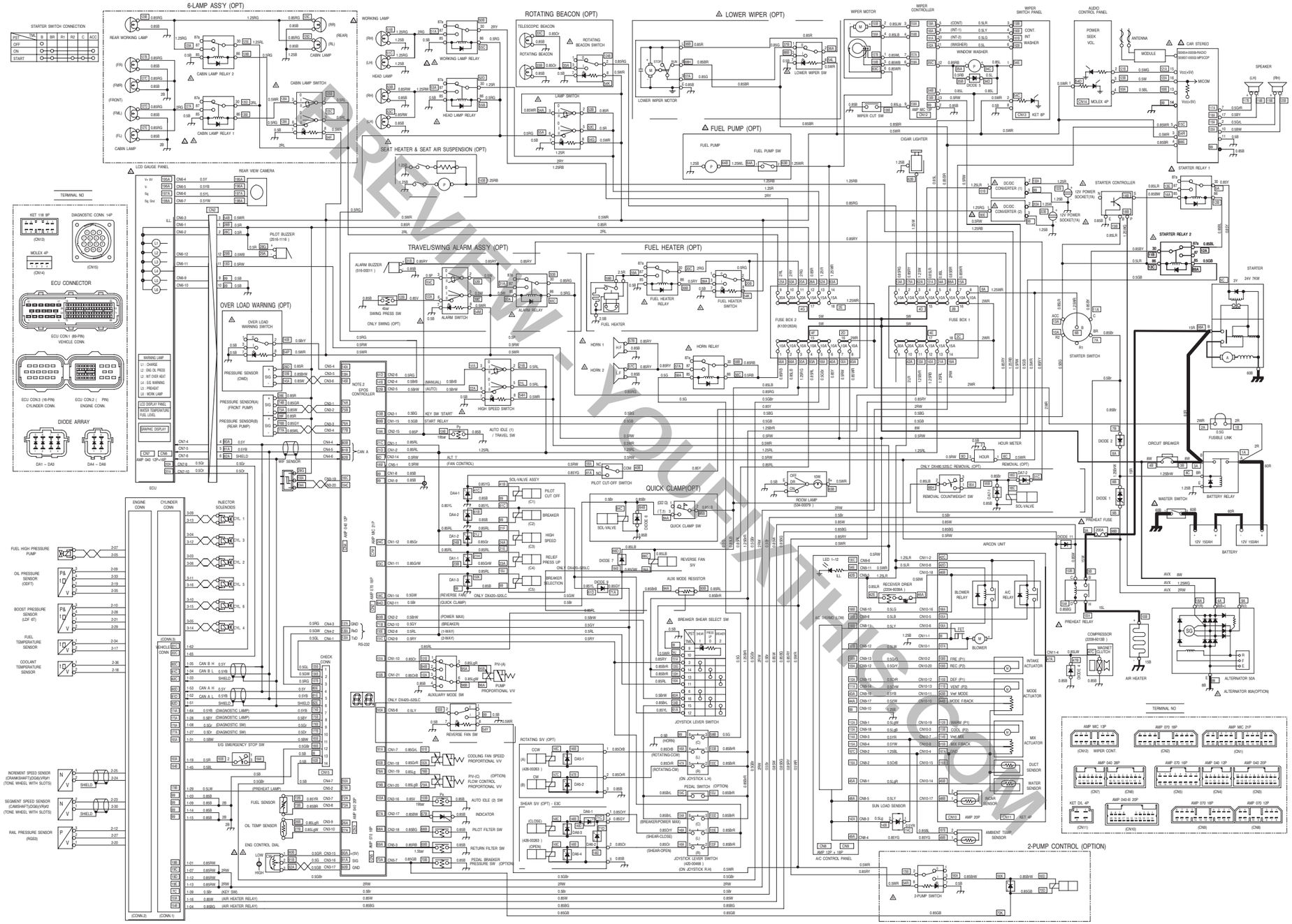
DX300LL/DX300/340/350/380/420/480/520LC



FG017139

Figure 1

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Figure 1

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