| DIMENSION | 7.1 m (23.3 ft) BOOM | | | 6.3 m (20.7 ft) BOOM | 7.1 m (23.3 ft) BOOM | |
|---|---|---|---|---|---|---|
| | 3.35 m (11.0 ft) ARM | 2.9 m (9.51 ft) ARM | 3.98 m (13.1 ft) ARM | 2.9 m (9.51 ft) ARM | 3.35 m (11.0 ft) ARM | 3.35 m (11.0 ft) ARM |
| Remarks | Variable | | | | RCW | Fixed |
| A | 12,130 mm (39' 10") | 12,230 mm (40' 1") | 12,210 mm (40' 1") | 11,430 mm (37' 6") | 12,230 mm (40' 1") | 12,180 mm (39' 12") |
| B | 3,700 mm (12' 2") | | | | 3,800 mm (12' 6") | 3,700 mm (12' 2") |
| C | 8,430 mm (27' 8") | 8,530 mm (28' 0") | 8,510 mm (27' 11") | 7,730 mm (25' 4") | 8,430 mm (27' 8") | 8,480 mm (27' 10") |
| D | 4,470 mm (14' 8") | | | | | |
| E | 5,465 mm (17' 11") | | | | | |
| F | * 1,460 mm (4' 9") / 1,470 mm (4' 10") | | | | 1,250 mm (4' 1") | 1,310 mm (4' 4") |
| G | 3,730 mm (12' 3") | 3,900 mm (12' 10") | 3,935 mm (12' 11") | 4,200 mm (13' 9") | 3,730 mm (12' 3") | 3,720 mm (12' 2") |
| H | 2,990 mm (9' 10") / 3,296 mm (10' 10") CAT Walk | | | | | |
| I | 1,500 mm (4' 11") / 1,806 mm (5' 11") CAT Walk | | | | | |
| J | 1,490 mm (4' 10") | | | | | |
| K (Std) | 3,300 mm (10' 10") / 2,740 mm (9' 0") (Transport position) | | | | | 2,750 mm (9' 0") |
| K (Narrow) | 2,920 mm (9' 7") / 2,360 mm (7' 9") (Transport position) | | | | | - |
| L (Std) | 3,900 mm (12' 10") / 3,340 mm (11' 0") (Transport position) | | | | | 3,350 mm (10' 12") |
| L (Narrow) | 3,520 mm (11' 7") / 2,990 mm (9' 10") (Transport position) | | | | | - |
| M | 600 mm (1' 12") | | | | | |
| N | * 770 mm (2' 6") / 780 mm (2' 7") | | | | | 570 mm (1' 10") |
| O | * 3,350 mm (10' 12") / 3,465 mm (11' 4") | | | | | 3,200 mm (10' 6") |

* HD TYPE

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# General Maintenance Procedures

Edition 1

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# TORQUE VALUES FOR STANDARD METRIC FASTENERS

**NOTE:** *The units for the torque values are kg•m (ft lb).*

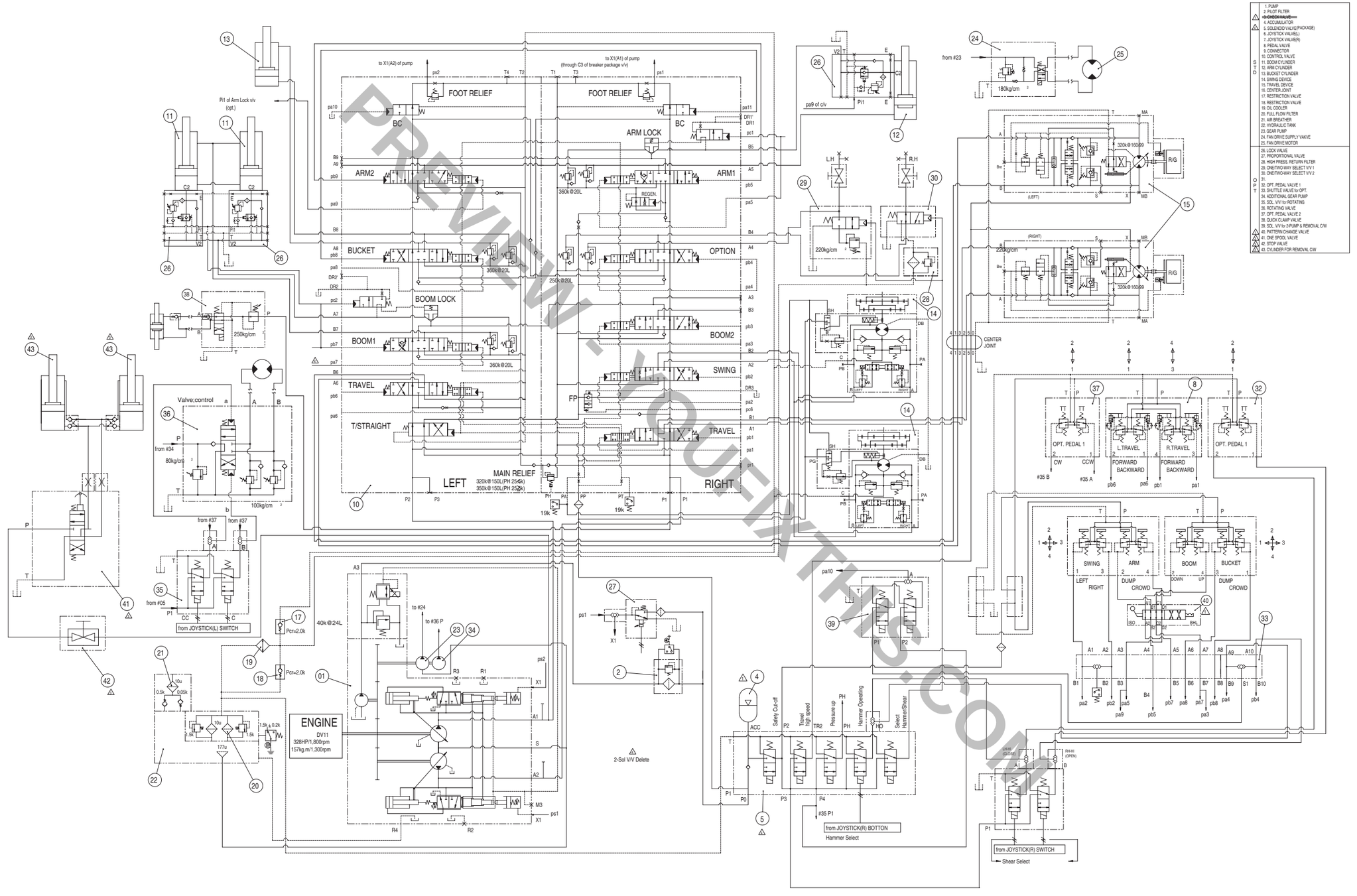
| Dia. x Pitch (mm) | Grade | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | 3.6 (4A) | 4.6 (4D) | 4.8 (4S) | 5.6 (5D) | 5.8 (5S) | 6.6 (6D) | 6.8 (6S) | 6.9 (6G) | 8.8 (8G) | 10.9 (10K) | 12.9 (12K) |
| M5 x Std. | 0.15 (1.08) | 0.16 (1.15) | 0.25 (1.80) | 0.22 (1.59) | 0.31 (2.24) | 0.28 (2.02) | 0.43 (3.11) | 0.48 (3.47) | 0.50 (3.61) | 0.75 (5.42) | 0.90 (6.50) |
| M6 x Std. | 0.28 (2.02) | 0.30 (2.16) | 0.45 (3.25) | 0.40 (2.89) | 0.55 (3.97) | 0.47 (3.39) | 0.77 (5.56) | 0.85 (6.14) | 0.90 (6.50) | 1.25 (9.04) | 1.50 (10.84) |
| M7 x Std. | 0.43 (3.11) | 0.46 (3.32) | 0.70 (5.06) | 0.63 (4.55) | 0.83 (6.00) | 0.78 (5.64) | 1.20 (8.67) | 1.30 (9.40) | 1.40 (10.12) | 1.95 (14.10) | 2.35 (16.99) |
| M8 x Std. | 0.70 (5.06) | 0.75 (5.42) | 1.10 (7.95) | 1.00 (7.23) | 1.40 (10.12) | 1.25 (9.04) | 1.90 (13.74) | 2.10 (15.18) | 2.20 (15.91) | 3.10 (22.42) | 3.80 (27.48) |
| M8 x 1 | 0.73 (5.28) | 0.80 (5.78) | 1.20 (8.67) | 1.00 (7.23) | 1.50 (10.84) | 1.35 (9.76) | 2.10 (15.18) | 2.30 (16.63) | 2.40 (17.35) | 3.35 (24.23) | 4.10 (29.65) |
| M10 x Std. | 1.35 (9.76) | 1.40 (10.12) | 2.20 (15.91) | 1.90 (13.74) | 2.70 (19.52) | 2.35 (19.99) | 3.70 (26.76) | 4.20 (30.37) | 4.40 (31.18) | 6.20 (44.84) | 7.20 (52.07) |
| M10 x 1.25 | 1.50 (10.84) | 1.60 (11.57) | 2.50 (18.08) | 2.10 (15.18) | 3.10 (22.42) | 2.80 (20.25) | 4.30 (31.10) | 4.90 (35.44) | 5.00 (36.16) | 7.00 (50.63) | 8.40 (60.75) |
| M12 x Std. | 2.40 (17.35) | 2.50 (18.08) | 3.70 (26.76) | 3.30 (23.86) | 4.70 (33.99) | 4.20 (30.37) | 6.30 (45.56) | 7.20 (52.07) | 7.50 (54.24) | 10.50 (75.94) | 12.50 (90.41) |
| M12 x 1.25 | 2.55 (18.44) | 2.70 (19.52) | 4.00 (28.93) | 3.50 (25.31) | 5.00 (36.16) | 4.50 (32.54) | 6.80 (49.18) | 7.70 (55.69) | 8.00 (57.86) | 11.20 (81.00) | 13.40 (96.92) |
| M14 x Std. | 3.70 (26.76) | 3.90 (28.20) | 6.00 (13.23) | 5.20 (37.61) | 7.50 (54.24) | 7.00 (50.63) | 10.00 (72.33) | 11.50 (83.17) | 12.00 (86.79) | 17.00 (122.96) | 20.00 (144.66) |
| M14 x 1.5 | 4.10 (29.65) | 4.30 (31.10) | 6.60 (47.73) | 5.70 (41.22) | 8.30 (60.03) | 7.50 (54.24) | 11.10 (80.28) | 12.50 (90.41) | 13.00 (94.02) | 18.50 (11.26) | 22.00 (158.12) |
| M16 x Std. | 5.60 (40.50) | 6.00 (43.39) | 9.00 (65.09) | 8.00 (57.86) | 11.50 (83.17) | 10.50 (75.94) | 15.50 (112.11) | 17.90 (129.47) | 18.50 (133.81) | 26.00 (188.05) | 31.00 (224.22) |
| M16 x 1.5 | 6.20 (44.84) | 6.50 (47.01) | 9.70 (70.16) | 8.60 (62.20) | 12.50 (90.41) | 11.30 (81.73) | 17.00 (122.96) | 19.50 (141.04) | 20.00 (144.66) | 28.00 (202.52) | 35.50 (256.77) |
| M18 x Std. | 7.80 (56.41) | 8.30 (60.03) | 12.50 (90.41) | 11.00 (79.56) | 16.00 (115.72) | 14.50 (104.87) | 21.00 (151.89) | 27.50 (198.90) | 28.50 (206.14) | 41.00 (296.55) | 43.00 (311.01) |
| M18 x 1.5 | 9.10 (65.82) | 9.50 (68.71) | 14.40 (104.15) | 12.50 (90.41) | 18.50 (133.81) | 16.70 (120.79) | 24.50 (177.20) | 27.50 (198.90) | 28.50 (206.14) | 41.00 (296.55) | 49.00 (354.41) |
| M20 x Std. | 11.50 (83.17) | 12.00 (86.79) | 18.00 (130.19) | 16.00 (115.72) | 22.00 (159.12) | 19.00 (137.42) | 31.50 (227.83) | 35.00 (253.15) | 36.00 (260.38) | 51.00 (368.88) | 60.00 (433.98) |
| M20 x 1.5 | 12.80 (92.58) | 13.50 (97.64) | 20.50 (148.27) | 18.00 (130.19) | 25.00 (180.82) | 22.50 (162.74) | 35.00 (253.15) | 39.50 (285.70) | 41.00 (296.55) | 58.00 (419.51) | 68.00 (491.84) |
| M22 x Std. | 15.50 (112.11) | 16.00 (115.72) | 24.50 (177.20) | 21.00 (151.89) | 30.00 (216.99) | 26.00 (188.05) | 42.00 (303.78) | 46.00 (332.71) | 49.00 (354.41) | 67.00 (484.61) | 75.00 (542.47) |
| M22 x 1.5 | 17.00 (122.96) | 18.50 (133.81) | 28.00 (202.52) | 24.00 (173.59) | 34.00 (245.92) | 29.00 (209.75) | 47.00 (339.95) | 52.00 (44.76) | 56.00 (405.04) | 75.00 (542.47) | 85.00 (614.80) |
| M24 x Std. | 20.50 (148.27) | 21.50 (155.50) | 33.00 (238.68) | 27.00 (195.29) | 40.00 (289.32) | 34.00 (245.92) | 55.00 (397.81) | 58.00 (419.51) | 63.00 (455.67) | 82.00 (593.10) | 92.00 (655.43) |
| M24 x 2.0 | 23.00 (166.35) | 35.00 (253.15) | 37.00 (267.62) | 31.00 (224.22) | 45.00 (325.48) | 38.00 (202.52) | 61.00 (441.21) | 67.00 (484.61) | 74.00 (535.24) | 93.00 (672.66) | 103.00 (744.99) |

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# DX480/520LC



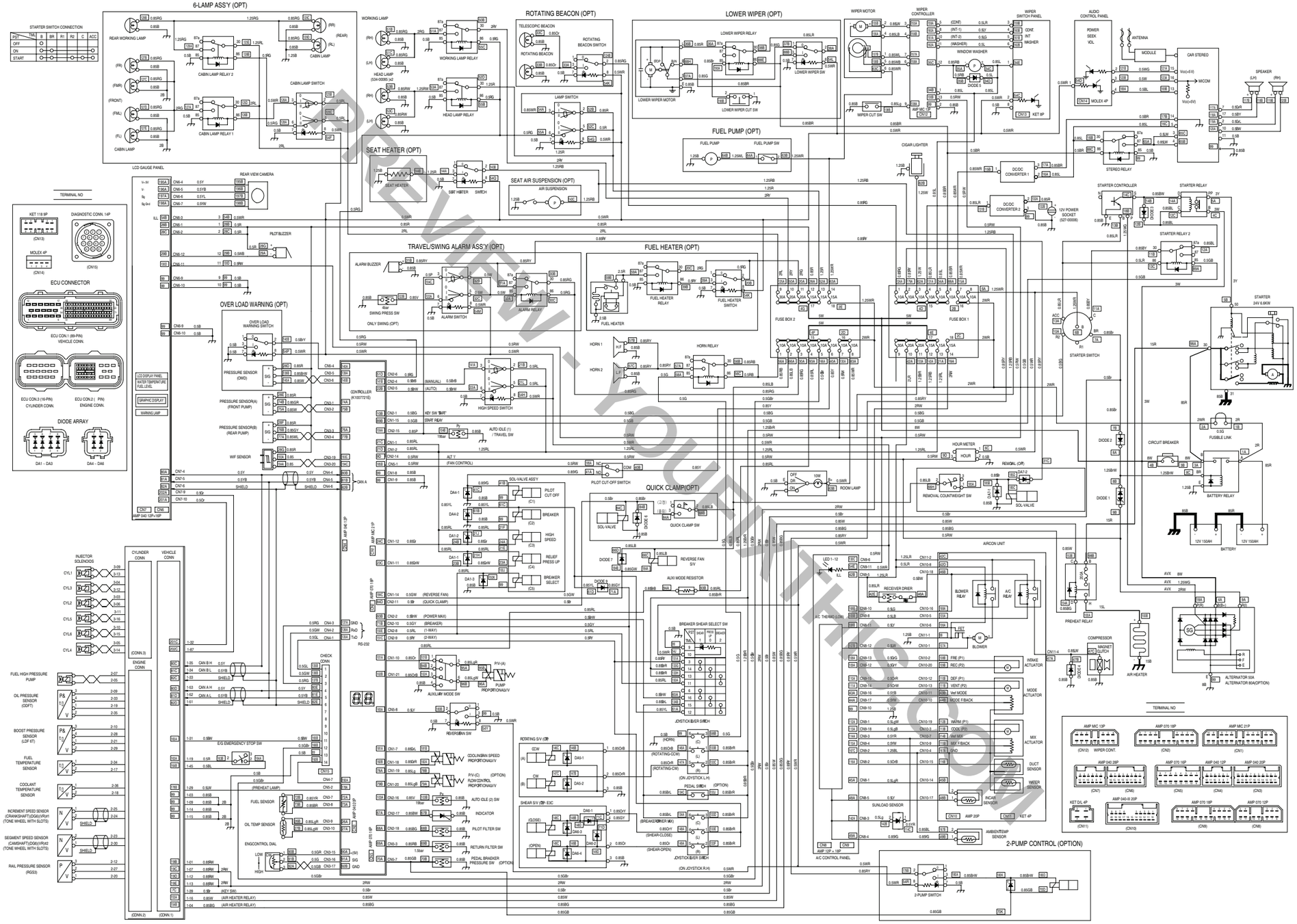

FG014499

**Figure 1**

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# DX480LC/520LC




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FG014642

**Figure 1**

# REMOVAL

## CAUTION

**Avoid disassembling cabin if there are strong wind gusts, which could catch large surface area of cabin shell and push it sideways during lift.**

1. Park on firm and level ground.
2. Lower front attachment (bucket) to ground.
3. Shut down engine.
4. Set safety lever on "RELEASED" position.
5. Turn starter switch to "I" (ON) position.

## WARNING

**If engine must be run while performing maintenance, use extreme care. Always have one person in the cabin at all times. Never leave the cabin with the engine running.**

6. Fully stroke work levers (joysticks) in all directions to relieve pressure from accumulators.
7. Set safety lever on "LOCK" position.
8. Turn key to "O" (OFF) position and remove from starter switch.
9. Hang maintenance warning tag on controls.
10. Disconnect the battery cable from the negative (-) battery terminal.
11. Prepare cabin shell for removal by disconnecting wiring connectors for:
    A. Cabin interior lighting.
    B. External light wiring.
    C. Radio antenna and connections.
    D. Wiper/washer connections.

**NOTE:** *Control console wiring harnesses and hydraulic piping lines that pass through the floor of the cabin do not need to be disassembled.*

**NOTE:** *If unit is equipped with a cabin protective structure (for forestry, or hazardous working conditions), it must be removed.*

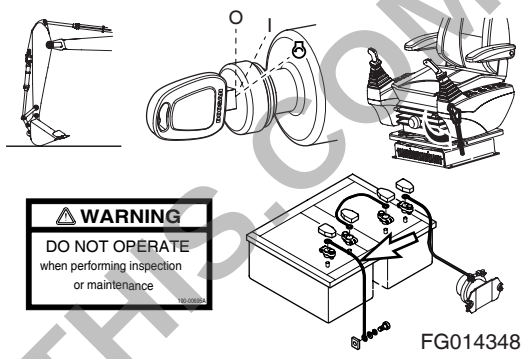



**Figure 1**

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| Reference Number | Description |
|---|---|
| 1 | Counterweight |
| 2 | Hood |
| 3 | Muffler |
| 4 | Hydraulic Oil Tank |
| 5 | Fuel Tank |
| 6 | Engine |
| 7 | Fuel Tank Fill Cap |
| 8 | Radiator and Oil Cooler |
| 9 | Control Valves |
| 10 | Swing Motor |
| 11 | Precleaner |
| 12 | Air Cleaner |
| 13 | Swing Bearing |
| 14 | Cabin |
| 15 | Seat |
| 16 | Work Lever (Joystick) Controls |
| 17 | Boom Cylinder |
| 18 | Arm Cylinder |
| 19 | Boom |
| 20 | Arm |

| Reference Number | Description |
|---|---|
| 21 | Bucket Cylinder |
| 22 | Guide Link |
| 23 | Bucket |
| 24 | Push Link |
| 25 | Side Cutter |
| 26 | Tooth Point |
| 27 | Travel Lever |
| 28 | Idler |
| 29 | Track Adjuster |
| 30 | Track Guard |
| 31 | Battery |
| 32 | Lower Roller |
| 33 | Center Joint |
| 34 | Upper Roller |
| 35 | Sprocket |
| 36 | Travel Device |
| 37 | Track Link and Shoe |
| 38 | Suction Filter |
| 39 | Return Filter |
| 40 | Pumps |

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# SAFETY PRECAUTIONS

## ⚠ CAUTION!

**Follow all safety recommendations and safe shop practices outlined in the front of this manual or those contained within this section.**

**Always use tools and equipment that are in good working order.**

**Use lifting and hoisting equipment capable of safely handling load.**

**Remember, that ultimately safety is your own personal responsibility.**

# APPLICABLE MODELS

The contents of this section apply to the following models and serial number ranges.

| MODEL | SERIAL NUMBER RANGE |
|---|---|
| DX300LC | 7440 and Up |
| DX340LC | 5980 and Up |
| DX350LC | 5980 and Up |
| DX420LC | 5327 and Up |
| DX480LC | 5221 and Up |
| DX520LC | 5117 and Up |

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# SAFETY PRECAUTIONS

## ⚠ CAUTION

**Follow all safety recommendations and safe shop practices outlined in the front of this manual or those contained within this section.**

**Always use tools and equipment that are in good working order.**

**Use lifting and hoisting equipment capable of safely handling load.**

**Remember, that ultimately safety is your own personal responsibility.**

# APPLICABLE MODELS

The contents of this section apply to the following models and serial number ranges.

| MODEL | SERIAL NUMBER RANGE |
|---|---|
| DX480LC | 5221 and Up |
| DX520LC | 5117 and Up |

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# SAFETY PRECAUTIONS

## ⚠ CAUTION!

**Follow all safety recommendations and safe shop practices outlined in the front of this manual or those contained within this section.**

**Always use tools and equipment that are in good working order.**

**Use lifting and hoisting equipment capable of safely handling load.**

**Remember, that ultimately safety is your own personal responsibility.**

# APPLICABLE MODELS

The contents of this section apply to the following models and serial number ranges.

| MODEL | SERIAL NUMBER RANGE |
|---|---|
| ALL MODELS | ALL RANGES |
| | |
| | |
| | |

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| Reference Number | Description |
|---|---|
| 1 | Fuel Tank |
| 2 | O-ring |
| 3 | Cover |
| 4 | Bolt |
| 5 | Spring Washer |
| 6 | Drain Valve |
| 7 | Bolt |
| 8 | Shim |
| 9 | Shim |

| Reference Number | Description |
|---|---|
| 10 | Fuel Strainer |
| 11 | Fuel Cap |
| 12 | Level Gauge |
| 13 | Spacer |
| 14 | Bolt |
| 15 | Clip |
| 16 | Fuel Sender |
| 17 | Bolt |
| 18 | Spring Washer |

## Specifications

Fuel tank capacity is 620 liters (164 U.S. gal).

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8. Repeat procedure for other three spring pins. Make sure that gears properly rotate.

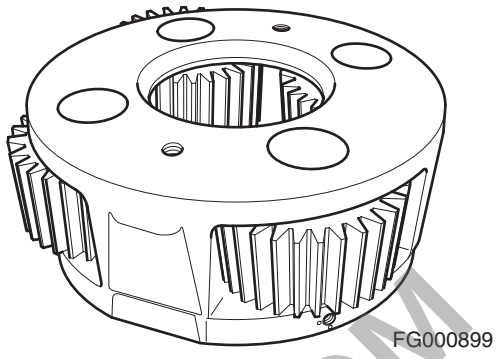



**Figure 50**

## Assembly of Main Case

### Cleaning Casing and Other Parts

Steam clean case and other parts, to remove any foreign substances.

- Cleaning fluid: PK6540 (alkali)
- Liquid density: 3 - 5%
- Liquid temperature: 60° - 70°C (140° - 158°F)

### Assembly of Shaft and Pinion

1. Insertion of shaft subassembly:
   A. Set gear case as shown in Figure 51.
   B. Using a suitable lifting device, lower shaft subassembly into case.
   C. Using special jig, keep bearing level and press it into case.




**Figure 51**

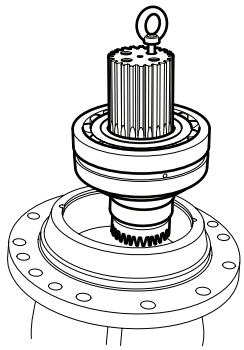


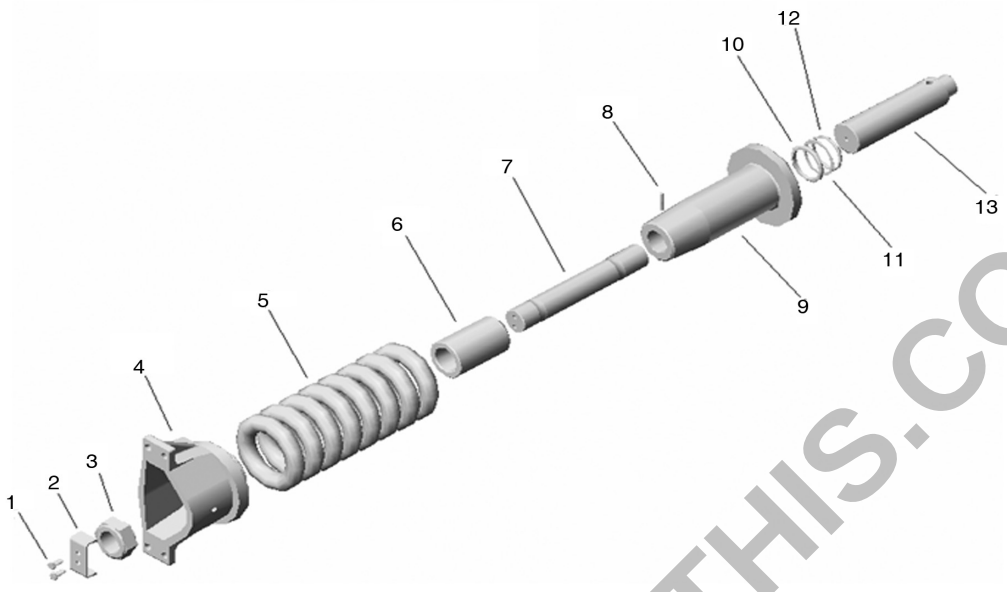

**Figure 52**

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# Track Spring Disassembly Diagram




FG004449

**Figure 48**

| Reference Number | Description |
|---|---|
| 1 | Bolt |
| 2 | Lock Plate |
| 3 | Lock Nut |
| 4 | Bracket |
| 5 | Spring |
| 6 | Sotpper |
| 7 | Tie Bar |

| Reference Number | Description |
|---|---|
| 8 | Spring Pin |
| 9 | Body |
| 10 | Rod Packing |
| 11 | Back up Rinf |
| 12 | Dust Seal |
| 13 | Rod |

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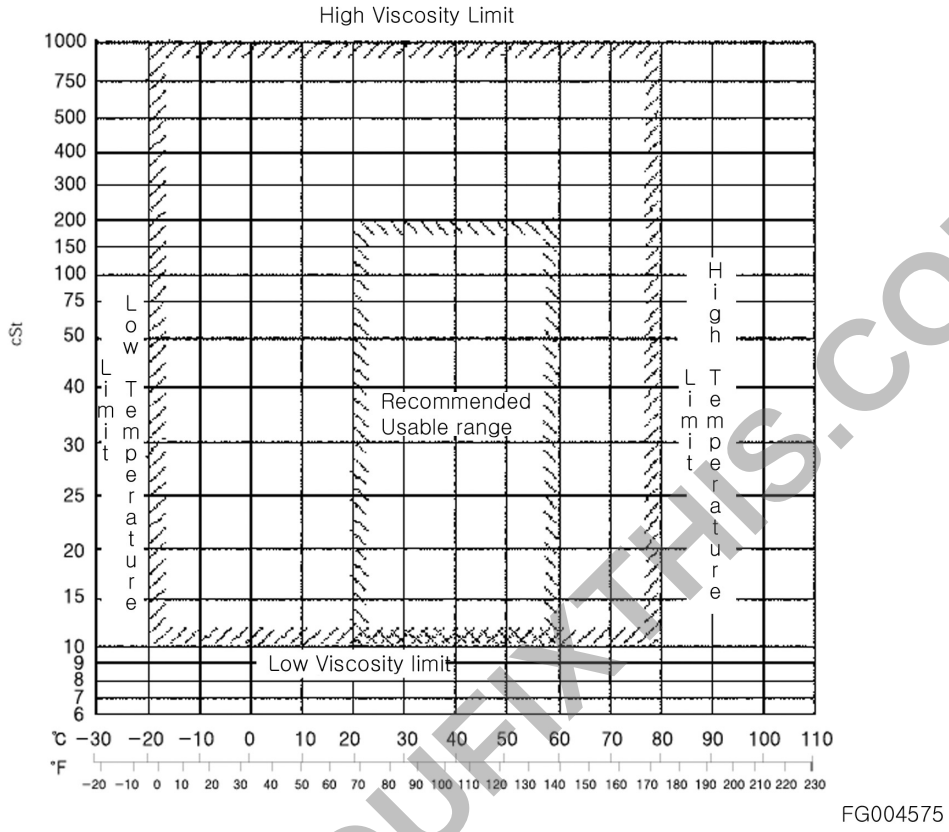



**Figure 8**

3. Active Oil Other than Mineral Oil

   If you are going to use phosphoric acid-, water-glycol-, or fatty acid-based active oil, please contact us in advance.

**Filter**

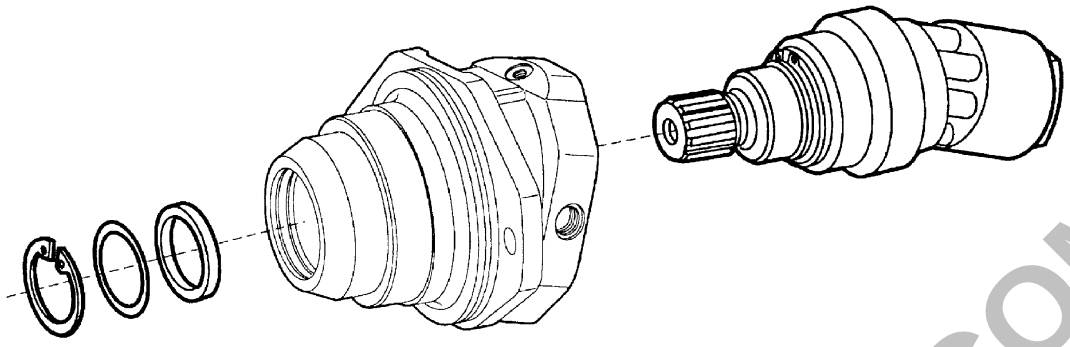
To prevent the presence of earth, dirt, metal particles in active oil which facilitates the wear of sliding parts, or sometimes makes them sticked or melted, filters should be installed in the circuit of 10μ.

Recommended contamination level is below the 8th grade of NAS or 2~4 mg/100c by the Millipore Filter Contamination.

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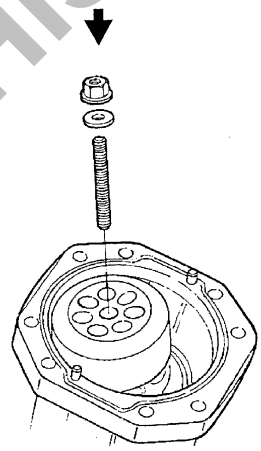
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HTS036S

**Figure 50**

15. Screw in threaded pin into center pin.
16. Fix the cylinder with disc and locknut.

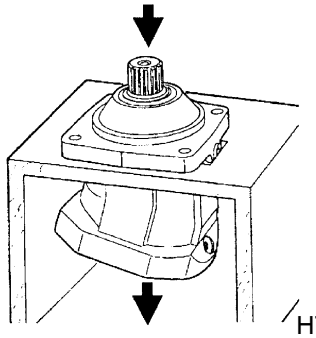


HTS037S

**Figure 51**

17. Press out rotary group.

    **NOTE:** *If the bearings are used again do not hit on the drive shaft.*



HTS038S

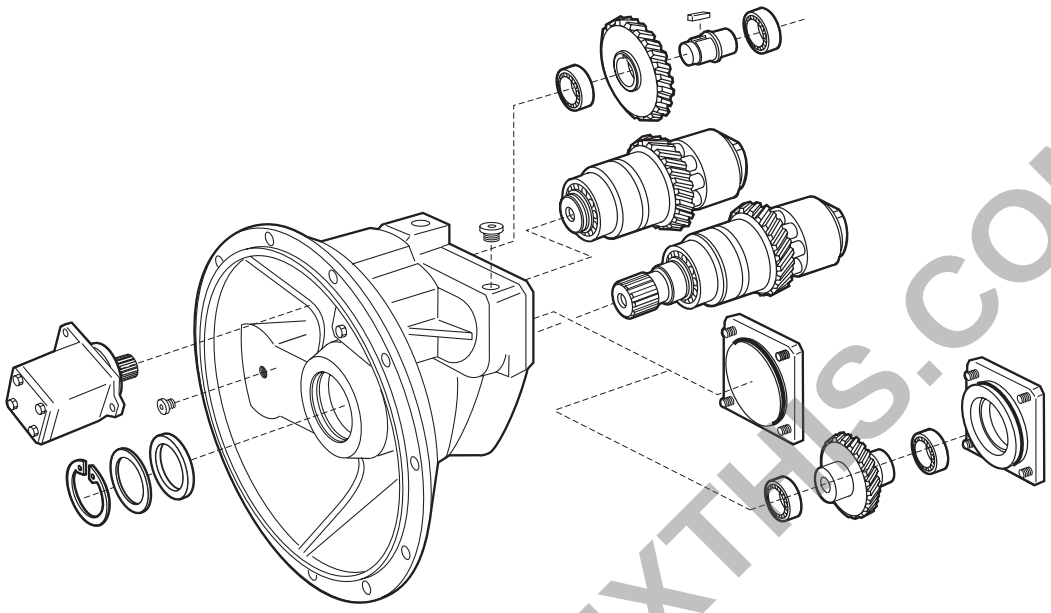
**Figure 52**

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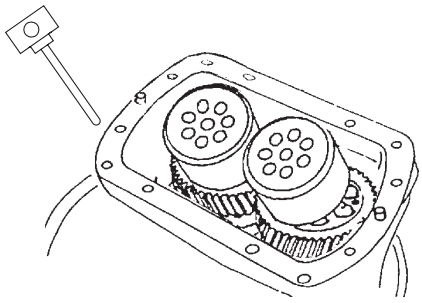
# REMOVE THE ROTARY GROUPS



ASS0450L

**Figure 46**

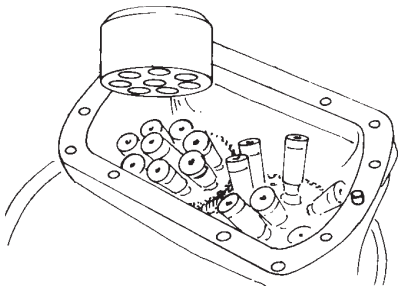
1. Keep cylinder with device (Remove it completely along with drive shaft).



ASS0460L

**Figure 47**

2. Remove cylinder (Take out the drive shaft without cylinder).



ASS0470L

**Figure 48**

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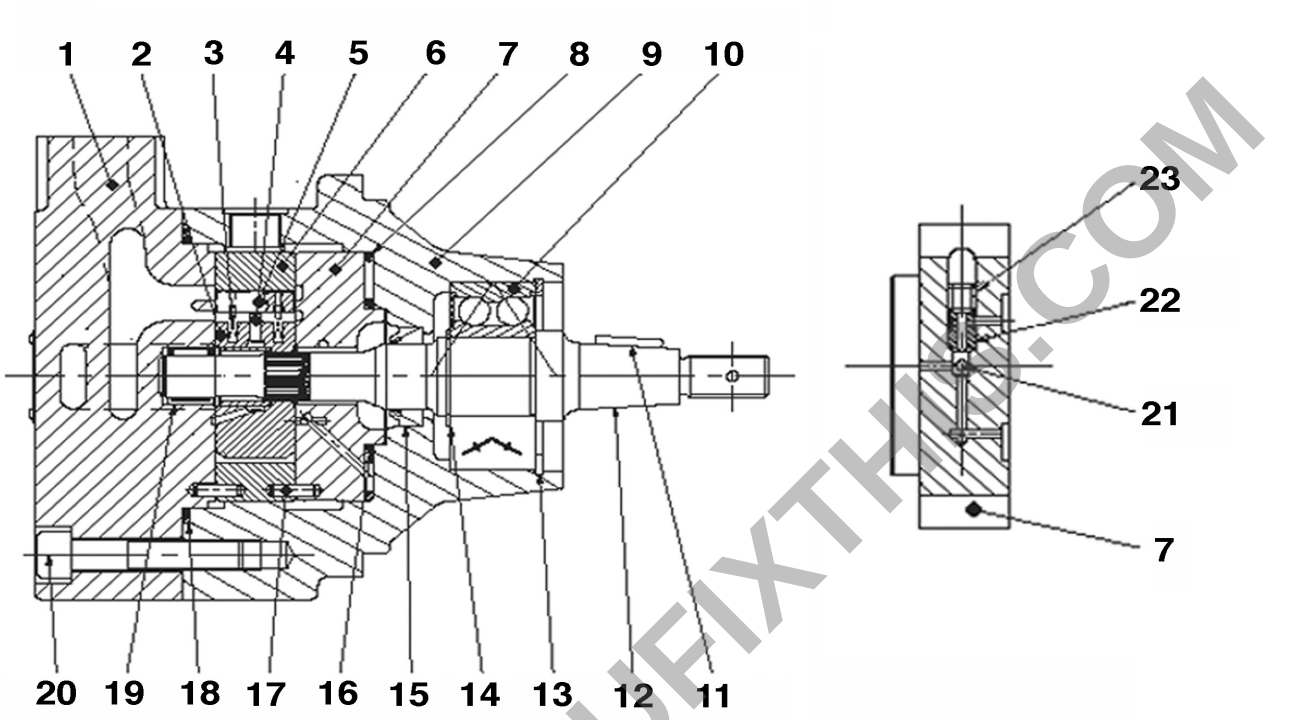
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# PARTS LIST




FG004709

**Figure 1**

| Reference Number | Description |
|---|---|
| 1 | End Cap (UNC) |
| 2 | Rotor Insert Assembly |
| 3 | Spring Vane |
| 4 | Pin-Vane Holdout |
| 5 | Vane |
| 6 | Cam Ring 012 |
| 7 | Port Plate Pressure |
| 8 | O-ring |
| 9 | Housing |
| 10 | Ball Bearing |
| 11 | Key |
| 12 | Shaft |

| Reference Number | Description |
|---|---|
| 13 | Retaining Ring |
| 14 | Retaining Ring |
| 15 | Shaft Seal |
| 16 | Sq. Section seal |
| 17 | Dowel Pin |
| 18 | Sq. Section seal |
| 19 | Needle Bearing |
| 20 | Screw |
| 21 | Ball |
| 22 | Adaptor Valve |
| 23 | Screw |

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# Hydraulic Schematic DX480LC/520LC

Edition 1

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**Failure Information Code at Engine Side**

| Code | Failure Component | Measuring Points | Current Valve | | Remarks |
|---|---|---|---|---|---|
| | | | Active | Passive | |
| **E011** | Coolant temperature sensor | 2-15<br>2-26 | - | R=186 ± 5 Ω (100°C (212°F)) | |
| **E012** | Fuel temperature sensor | 2-35<br>2-26 | - | R=186 ± 5 Ω (100°C (212°F)) | |
| **E013** | Boost air temperature sensor | 2-36<br>2-25 | - | R=186 ± 5 Ω (100°C (212°F)) | |
| **E014** | Boost air pressure sensor | 2-34<br>2-33 | V = 1,071±58mV (at 23°C (73°F) and absolute pressure 1bar) | - | It has to be measured in engine running state. |
| **E017** | E/G oil temperature sensor | 2-28<br>2-24 | - | R=186 ± 5 Ω (100°C (212°F)) | |
| **E018** | E/G oil pressure sensor | 2-27<br>2-32 | V = 2,318±80mV (at 23°C (73°F) and absolute pressure 3bar) | - | It has to be measured in engine running state. |
| **E021** | Battery voltage | 1-03<br>1-06 | V = V_volt (Note 4.) | - | |
| **E022** | Fuel pressure sensor | 2-14<br>2-12 | V = 1,833±28mV (at 23°C (73°F) and absolute pressure 300bar) | - | It has to be measured in engine running state. |
| **E032** | Fuel pressure monitoring MPROP | 3-09<br>3-10 | - | R=2.60 ± 3.15 Ω (20°C (68°F)) | |
| **E037** | CAN - B Line | 1-35<br>1-34 | - | R=60 ± 5 Ω (20°C (68°F)) | It is a composite resistance of CAN line.<br>This value has to be measured by connected condition of CAN line. |
| **E038** | Engine overspeed | | - | - | |
| **E039** | Main relay SCG (ECU) | | - | - | Engine ECU fail. |
| **E041** | Redundant shutoff path | | - | - | Abnormal engine stop. |
| **E042** | E/G speed (Crankshaft) | 2-23<br>2-19 | - | R=860 ± 6 Ω (20°C (68°F)) | |

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## Compressor

| Categories | Specifications |
|---|---|
| Output | 155.3 cc/rev |
| Oil Level | 120 cc (ND-OIL8) |
| Refrigerant | R134a |
| Rated Voltage | 24V |
| Relief Valve | Open: 35 - 42.2 kg/cm$^2$G<br>Close: 28.1 kg/cm$^2$G |

Compressor sucks in refrigerant which evaporates completely in the evaporator and discharges it to the condenser.

Refrigerant undergoes repeated status change in the order of liquid, gas, and liquid in the freezing cycle, and the compressor makes evaporated refrigerant a high temperature and high-pressured gas to freeze it in the condenser.

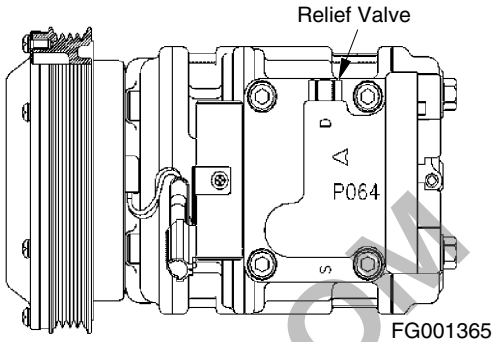



**Figure 91**

## Receiver Dryer

The receiver dryer reserves refrigerant enough to ensure smooth freezing cycle responding immediately to the change of level in the freezing cycle.

As liquid refrigerant from the condenser may contain refrigerant gas with bubbles whose presence in the expansion valve decreases the freezing power excessively, it separates liquid and gas and sends liquid only to the expansion valve.

Water in refrigerant shall be eliminated with dryer and through filter.

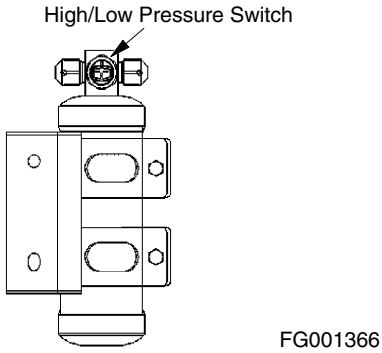



**Figure 92**

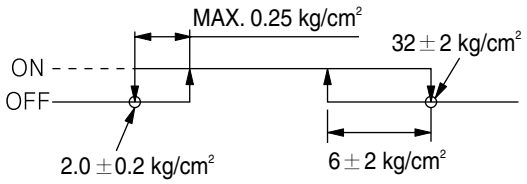



**Figure 93**

Volume of refrigerant by model

| Model | Volume of Refrigerant |
|---|---|
| DX225LC | 800 ± 20 grams |
| DX225NLC | 800 ± 20 grams |
| DX300LC | 800 ± 20 grams |
| DX340LC | 800 ± 20 grams |
| DX420LC | 800 ± 20 grams |
| DX480LC | 800 ± 20 grams |
| DX520LC | 800 ± 20 grams |

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