

# 2006 Doosan DX225LC Crawled Excavator Service Repair Workshop Manual



# **DX225LC**

Shop Manual

K1015439E

Serial Number 5001 and Up

*DOOSAN* reserves the right to improve our products in a continuing process to provide the best possible product to the market place. These improvements can be implemented at any time with no obligation to change materials on previously sold products. It is recommended that consumers periodically contact their distributors for recent documentation on purchased equipment.

This documentation may include attachments and optional equipment that is not available in your machine's package. Please call your distributor for additional items that you may require.

Illustrations used throughout this manual are used only as a representation of the actual piece of equipment, and may vary from the actual item.

3. Remove piston (381) from rear flange (301)



Figure 8

4. Remove two plugs (382).
5. Remove O-rings (383 and 384) from plug (382).



Figure 9

6. Remove steel ball (385) from each plug hole (301).



Figure 10

#### Relief Valve Disassembly

1. Remove plug (204) from sleeve (202).
2. Remove O-ring (210) from plug (204).



Figure 11

# GENERAL DESCRIPTION

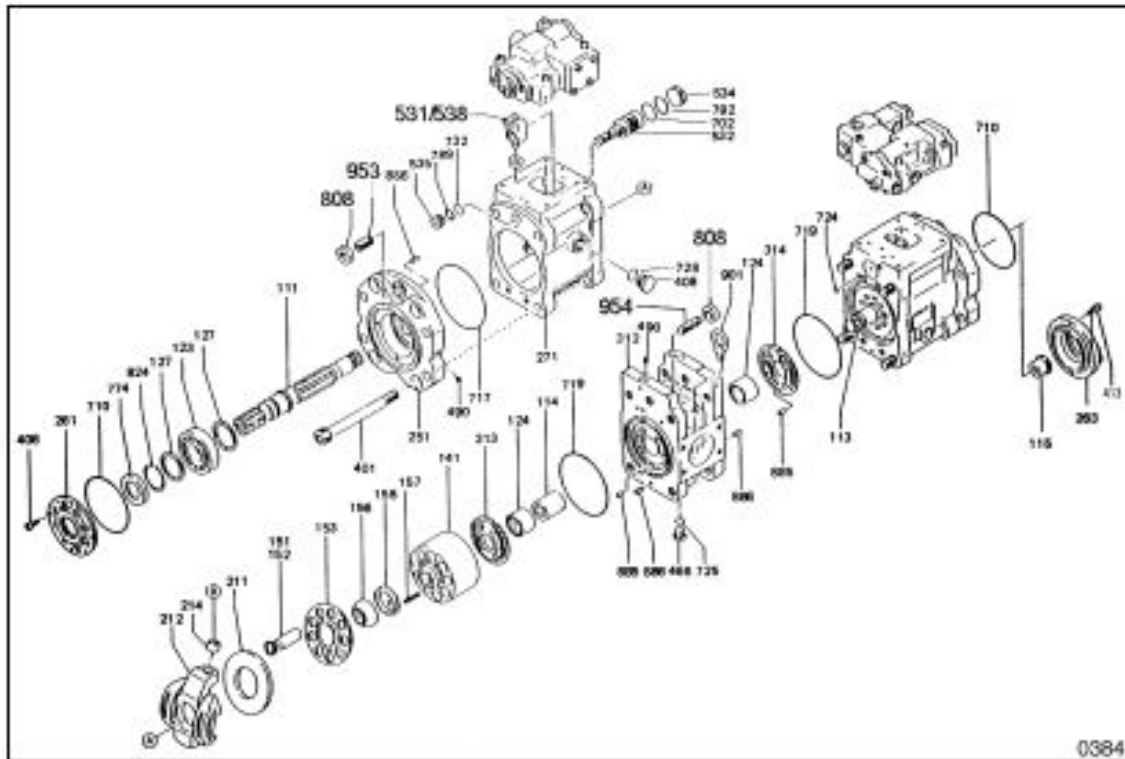


Figure 1

The main pump assembly contains two variable displacement axial piston pumps connected in series, driven through a flexible coupling off the back of the engine. A regulator mounted on each pump controls the flow output of that pump. A gear-type pilot pump is mounted on the second main pump (farther away from the engine) and supplies oil to the two regulators and the control valve.

The axial piston pumps in the main pump assembly are units that incorporate three main functional subassemblies:

- The rotary group includes a drive shaft, cylinder block, piston, shoe, push plate, and spherical bush.
- The rotary group drive shaft is driven directly off the engine and turns at the same rate as engine RPM. The cylinder block and pistons revolve around the drive shaft, producing oil flow through the pump whenever the angle of the swash plate is tilted past the 0 degree (vertical) angle. Whenever the pump swash plate angle is at 0 degrees, piston stroke length is reduced to 0, and there is no output from the pump.
- The swash plate group includes the shoe plate, swash plate support, and servo pistons.
- The pump regulator controls the tilt angle of the swash plate. Increasing the swash plate tilt angle increases the length of piston stroke, boosting both the output flow and output pressure of the pump.
- The valve group consists of the valve block, valve plate and plate pin, providing intake and exhaust port assemblies for the pump.



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