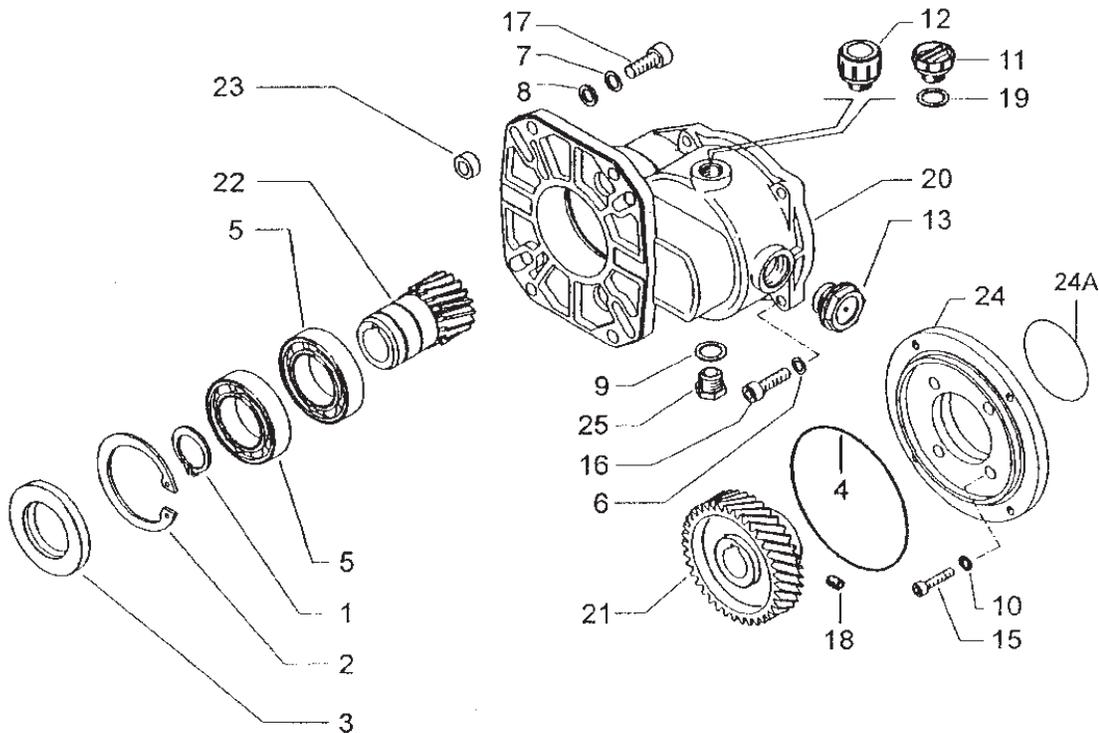


Model 08499A

Gearbox for P200 and P300 Series Pumps



Item	Part#	Description	Quantity
1	06456	Clip Ring	1
2	06457	Clip Ring	1
3	06455	Radial Shaft Seal	1
4	06458	O-Ring	1
5	06459	Ball Bearing	2
6	06460	Washer	4
7	06461	Washer	4
8	06462	Washer	4
9	06463	Copper Ring	1
10	06464	Washer	4
11	06465	Oil Filler Plug	1
12	06466	Plug	1
13	06467	Oil Sight Glass with Seal	1
15	06469	Cap Screw	4
16	06470	Cap Screw	4
17	06471	Cap Screw	4
18	06472	Set Screw	1
20	06453	Gear Casing	1
21	06474	Gear Wheel	1
22	06475	Pinion	1
23	06476	Spacer Retainer	4
24	06454	Flange	1
24A	08183	O-Ring	1
25	06477	Plug	1

Operating Specifications

Reduction:	2.176 - to -1
Maximum HP:	18 Hp (13kW)
Maximum Speed:	3600 RPM
Weight:	8.71 lbs.(3.95 kg)
Oil Capacity:	10.0 fl. ozs.(.035 liter)
Recommended Oil:	SAE 90
Connection:	1" dia. Shaft, 3.5" Shaft Length
Engine:	Adapts to most gasoline engines (SAE J609B)

GIANT

Performance Under Pressure

Giant Industries, Inc.

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Toledo, Ohio 43607

419-531-4600

419-531-6836 Fax

www.giantpumps.com

ASSEMBLY OF THE GEARBOX ONTO PUMPS

The gearboxes are supplied partly assembled. Mount the pump onto the gearbox first.

1. Set the pump on its side (shaft pointing upwards)
2. Remove the bearing cover with the radial shaft seal.
3. Attach the pump flange (24) with the radial shaft seal and O-ring (24A) using screws (15) and washers (10). Coat the screws lightly with LOCTITE 242, tighten to 88 inch-pounds (10 Nm).
4. **VERY CAREFULLY** position the flange (24) together with the radial shaft seal onto the shaft. Do not push the seal lip over fitting key groove.
5. With the hub facing down, slide the gear (21) onto the pump shaft till it hits home. Simultaneously make sure that the fitting key sits correctly in its groove.
6. Coat the set screw (18) lightly with LOCTITE 242 and tighten securely.
7. Clean the contact surfaces of the flange and gear casing, place an O-ring (4) onto the flange (24) and grease it lightly.
8. With the oil fill cap facing towards the top of the pump, push the gear-casing (20) with pinion (22) onto the mounted gear (21).
9. Lightly coat the screws (16) with LOCTITE 242 and tighten the gear casing to the flange (24) with the screws (16) and washers (6).
10. The gear assembly is completed by screwing the supplied plugs (13 and 25) together with their respective seals (9) into their required locations.
11. The gear box can now be filled with the recommended 10 fl. ozs. of oil. Close the oil fill hole with the oil fill plug (12).
12. To disassemble the gearbox, simply reverse the above instructions.

IMPORTANT, if the gear/pump unit is not coupled immediately to the motor or if it is to be transported, it is advised to fit the transport plug (11) with seal (19), instead of the oil plug (12).

ASSEMBLY OF THE GEARBOX ON THE ENGINE

Coat the motor shaft with anti seize (e.g. LOCTITE 8150)

IMPORTANT, always use fitting keys that fit in the complete groove length of the motor shaft (e.g. Honda Q-type, fitting key length (2.0"[50.9mm]).

- Fix the gear/pump unit to the combustion engine and secure it with either 4 x M8 or 4 x 3/8-16 UNC screws (17). Coat the screws (17) lightly with LOCTITE 242 and tighten to 220 inch pounds.

IMPORTANT, If using the 3/8-16 UNC screws (17), four spacer rings (23) must be placed on the outer (6 1/2") ring holes between the flange and motor to prevent the flange from bending.

IMPORTANT, take note that the motor/gear/pump unit must run without vibration during the trial run. If not, the flange screws (17) have been unevenly tightened.

MAINTENANCE

The gearbox does not require any particular service. Initial oil change every 20 hours and then every 100 hours, every 6 months at the latest.



WARNING: This product might contain a chemical known to the State of California to cause cancer, and birth defects or other reproductive harm.
For more information go to www.P65Warnings.ca.gov

08499A Dimensions: inches (mm)

