Menu

HYPRO®

Roller Pump Repair Kit

Form L-0174R
(7-07)

Kit No. 3430-0343 (Universal)
For Series 6500, 7560 and 7700 Roller Pumps.
Consists of (8) Super Rollers,
(2) O-rings and (4) Viton Seals.

Kit No. 3430-0376
For Series 7560 Roller Pumps.
Consists of (8) Super Rollers
and (1) O-ring.

Kit No. 3430-0377
For Series 7560 Roller Pumps.
Consists of (8) Super Rollers,
(1) O-ring and (2) Buna Seals.

Kit No. 3430-0381
For Series 7560 Roller Pumps.
Consists of (8) Super Rollers,
(1) O-ring and (2) Viton Seals.

Kit No. 3430-0384
For Series 7700 Roller Pumps.
Consists of (7) Super Rollers,
(1) O-ring and (2) Viton Seals.

Kit No. 3430-0385
For Series 7700 Roller Pumps.
Consists of (7) Super Rollers and
(1) O-ring.

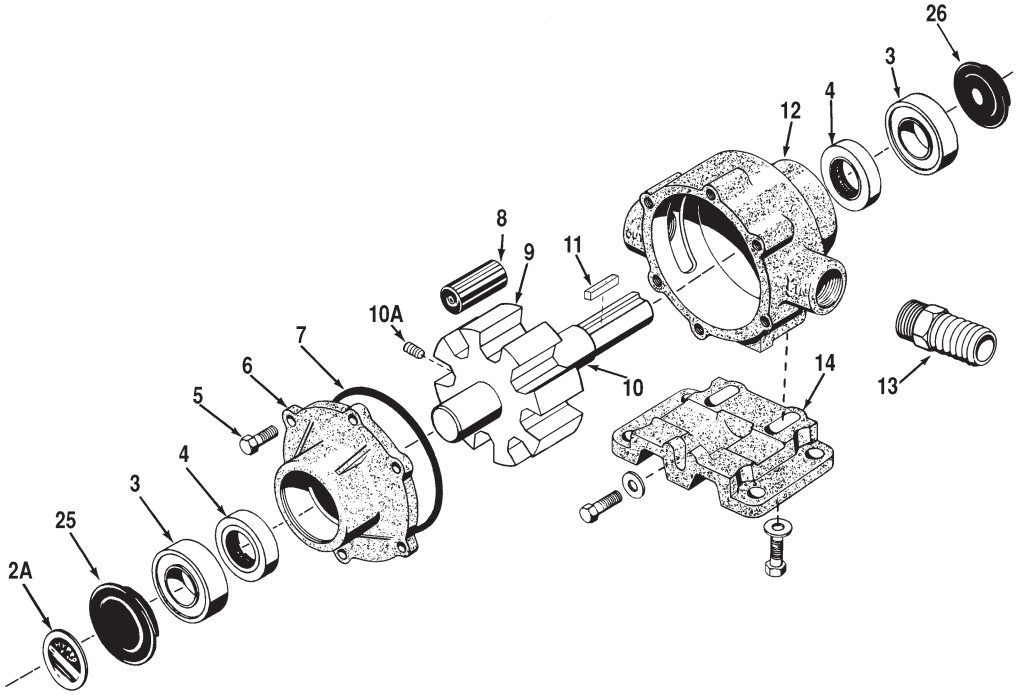
Kit No. 3430-0389
For Series 7700 Roller Pumps.
Consists of (7) Super Rollers,
(1) O-ring and (2) Buna Seals.

GENERAL SAFETY INFORMATION

1. Use a pressure relief device on the discharge side of the pump to prevent damage from pressure buildup when the pump discharge is blocked or otherwise closed and the power source is still running.
2. **WARNING: DO NOT pump flammable or explosive fluids such as gasoline, fuel oil, kerosene, etc. DO NOT use in explosive atmospheres. The pumps should be used only with liquids compatible with the pump component materials. Failure to follow this warning can result in personal injury and/or property damage and will void the product warranty.**

   DO NOT pump acids (i.e. acid fertilizers) with Super Rollers! When pumping acidic fertilizer, Hypro recommends only the Silver Series castings and polypropylene or Teflon rollers, or use one of Hypro's poly centrifugal pumps. When using Teflon rollers, the maximum recommended operating pressure is 100 psi.
3. Be sure all exposed moving parts such as PTO shafts and adapters are properly shielded or guarded and that all coupling devices are securely attached before applying power.
4. Pumps mounted directly on to the PTO shaft or other power shaft must be prevented from rotating with the power shaft. Pump must float freely on the power shaft and must not be tied rigidly to equipment on which it is mounted.
5. **DO NOT EXCEED** recommended speed, pressure and temperature for the pump and equipment being used.
6. **BEFORE SERVICING,** disconnect all power, make sure all pressure in the system is relieved, drain all liquids from the system and flush.
7. Secure the discharge lines before starting the pump. An unsecured line may whip, causing personal injury and/or property damage.
8. Check hoses for weak or worn condition before each use. Make certain that all connections are tight and secure.
9. Periodically inspect the pump and the system components. Perform routine maintenance as required.
10. Protect the pump from freezing conditions by draining liquid and pumping rust inhibiting antifreeze solution through the system, coating the pump interior. When possible, plug ports before storing the pump for long periods of time.

Hypro Series 7560 and 7560XL



Ref. No.	Qty. Req'd.	Part Number	Description
2A	1	6031-0299	Name Plate (specify pump model number)
3	2	2008-0001	Sealed Ball Bearing
4	2	2112-0003	Viton Seal (standard)
4	2	2112-0001	Buna-N Seal (optional)
4	2	2103-0002	Leather Seal (optional)
5	6	2210-0004	Bolt
6	1	0204-7500C	Endplate (cast iron) w/seal
6	1	0204-7500N	Endplate (Ni-Resist) w/seal
6	1	0204-7500X	Endplate (SilverCast) w/seal
7	1	1720-0014	O-ring Gasket for endplate
8	8	1005-0004	Super Roller (standard)
8	8	1002-0004	Polypropylene Roller (opt.)
8	8	1052-0004	Buna-N Roller (optional)
8	8	1055-0004	Teflon Roller (optional)

Ref. No.	Qty. Req'd.	Part Number	Description
9	1	0308-7560C	Rotor (cast iron) with shaft
9	1	0308-7560N	Rotor (Ni-Resist) with shaft
9	1	0308-7560X	Rotor (SilverCast) with shaft
10	1	0500-7400	Shaft only
10A	1	2230-0003	Set Screw
10A	1	2230-0007	Set Screw (SilverCast only)
11	1	1610-0005	Key
12	1	0104-7500C	Body (cast iron) with seal
12	1	0104-7500N	Body (Ni-Resist) with seal
12	1	0104-7500X	Body (SilverCast) with seal
13	1	2404-0052	1" Hose Barb
14	1 kit	3420-0003	Base Kit — Includes: (1) base, (3) bolts, and (3) washers
25	1	2300-0020	Bearing Cover
26	1	2300-0022	Shaft Bearing Cover

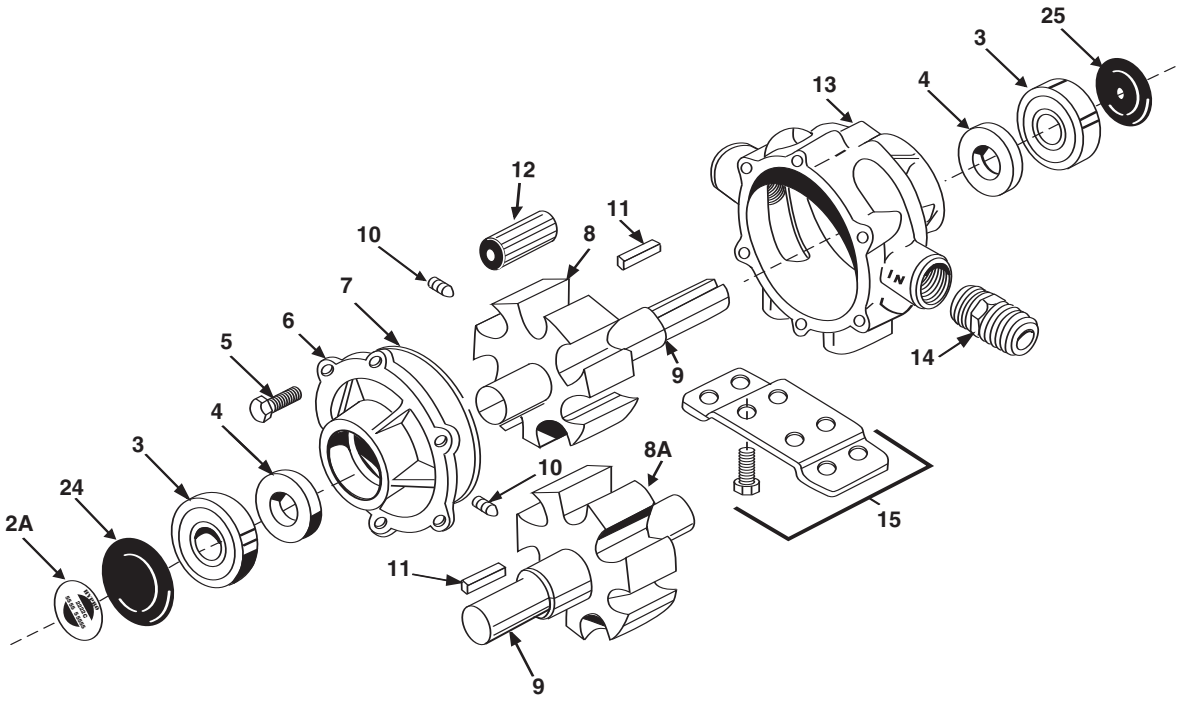
Available PTO Adapters for Series 7560 / 7560XL
Female to Female (Not shown)

Part Number	PTO (I.D.)	Splines	Material	RPM
1320-0033	1-3/8"	6	die cast	540
1320-0038	1-3/8"	21	die cast	1000
1320-0054	3/4"	N/A	die cast	*
1320-0076	1-3/8"	6	forged steel	540
1320-0078	1-3/8"	21	forged steel	1000
1320-0080	1-3/4"	20	forged steel	1000

Available PTO Adapters for Series 7560 / 7560XL
Female to Female (Not shown)

Part Number	PTO (I.D.)	Splines	Material	RPM
1323-0072	1-3/8"	6	forged steel	540
1323-0073	1-3/8"	21	forged steel	1000
1323-0076	1-3/8"	6/21	forged steel	540/1000
1321-0007	1-3/8"	6	die cast	540
1321-0009	1-3/8"	21	die cast	1000
1321-0013	1-3/8"	6/21	die cast	540/1000

Hypro Series 7700 and 7700XL



Ref. No.	Qty. Req'd.	Part Number	Description
2A	1	6031-0299	Name Plate (specify pump model number)
3	2	2008-0001	Sealed Ball Bearing
4	2	2112-0003	Viton Seal (standard)
4	2	2112-0001	Buna-N Seal (optional)
4	2	2103-0002	Leather Seal (optional)
5	6	2210-0004	Bolt
6	1	0200-7700C	Endplate (cast iron) with seal
6	1	0200-7700N	Endplate (Ni-Resist) with seal
6	1	0200-7700X	Endplate (SilverCast) with seal
7	1	1720-0014	O-ring Gasket for endplate
8	1	0300-7700C	Rotor (cast iron) w/shaft
8	1	0300-7700N	Rotor (Ni-Resist) w/shaft
8	1	0300-7700X	Rotor (SilverCast) w/shaft
8A	1	0301-7700C	Rotor (cast iron) w/shaft (reverse rotation)
8A	1	0301-7700N	Rotor (Ni-Resist) w/shaft (reverse rotation)

Ref. No.	Qty. Req'd.	Part Number	Description
8A	1	0301-7700X	Rotor (SilverCast) w/shaft (reverse rotation)
9	1	0500-7400	Shaft only
10	1	2230-0003	Set Screw
10	1	2230-0007	Set Screw (SilverCast only)
11	1	1610-0005	Key
12	7	1005-0004	Super Roller (standard)
12	7	1002-0004	Polypropylene Roller (opt.)
12	7	1052-0004	Buna-N Roller (optional)
12	7	1055-0004	Teflon Roller (optional)
13	1	0100-7700C	Body (cast iron) with seal
13	1	0100-7700N	Body (Ni-Resist) with seal
13	1	0100-7700X	Body (SilverCast) w/seal
14	1	2404-0052	1" Hose Barb
15	1 kit	3420-0010	Base Kit — Includes: (1) base and (4) bolts
24	1	2300-0020	Bearing Cover
25	1	2300-0022	Shaft Bearing Cover

Available PTO Adapters for Series 7700 / 7700XL
Female to Female (Not shown)

Part Number	PTO (I.D.)	Splines	Material	RPM
1320-0033	1-3/8"	6	die cast	540
1320-0054	3/4"	N/A	die cast	*
1320-0076	1-3/8"	6	forged steel	540

Available PTO Adapters for Series 7560 / 7560XL
Female to Female (Not shown)

Part Number	PTO (I.D.)	Splines	Material	RPM
1323-0072	1-3/8"	6	forged steel	540
1321-0007	1-3/8"	6	die cast	540

* Refer to the recommended pump rpm.

DISASSEMBLY AND ASSEMBLY INSTRUCTIONS

For more detailed information on the repair procedures for Hypro Roller Pumps, please refer to Hypro Form No. L-0100R that was shipped with your pump. If you do not have a copy of Form 100R and would like to get one, please call your local dealer or Hypro at (651) 766-6300 and ask for the Customer Service Representative for your area.

Pump Disassembly

1. Remove the adapter from the pump shaft.
2. File off any burrs on the pump shaft.
3. With a screwdriver or pocket knife, pry off bearing covers on the endplate and body.
4. Remove the endplate bolts.
5. Support the pump at ports in a support fixture with the endplate down. Place on press bed. Center the press on the pump shaft and apply pressure to press the pump apart. The shaft and rotor will remain with the endplate.
6. Remove the rollers and endplate o-ring seal. Replace rollers if worn, swollen or out-of-round. Inspect all parts for wear.
7. To remove the rotor with the shaft, place the endplate in the support fixture with the rotor down. Center the 3/8" bolt on the pump shaft and apply pressure to press the shaft out of the bearing.
8. With the endplate still in the support fixture, center the bearing support tool and slowly press the bearing out of the casting. Repeat the procedure to remove the bearing from the pump body.
9. Punch the seals out of the endplate and body with screwdriver and hammer. Discard seals.

Pump Re-Assembly

1. Carefully place the seal in the pump body, centering with the crimped side down. Press the seal to the bottom of the cavity.
2. Put the bearing in position in the pump body and press into place supporting the outer bearing race.
3. Repeat Steps 1 and 2 with endplate.
4. Seat the o-ring in the groove. Make sure the o-ring stays in place by stretching if necessary.
5. Install the shaft rotor assembly by carefully pushing the short end of the shaft-rotor assembly through the shaft seal into the endplate. Place in the arbor press with the drive end of the shaft pointed down. Use the bearing support tool on top of the bearing and press the assembly together.
6. Remove the assembled portion from the arbor press and invert it on the press table with the bearing support tool underneath the bearing. Then place the rollers in roller slots as close to the center of rotor as possible. Place the pump body over the rotor and shaft, and carefully ease the end of the shaft past the lips of the seal in pump body. Center the bearing support tool with counter bored end down on inner race of ball bearing, and slowly press the pump body down to fit the endplate support on the inner race of the bearing.
7. Turn the pump over; line up the bolt holes and replace assembly bolts. Tighten the opposite bolt in a crossing pattern.
   NOTE: After the bolts have been drawn up tight, check to see if the rotor is centered in the pump case. Try to turn the pump shaft, using a crescent wrench on the shaft as a lever.
8. If the pump turns hard:

   Place the short brass rod (or hardwood dowel) against the end of the shaft. Center the rod on the shaft (not on the bearing). Tap lightly with a hammer. Try turning the shaft again.
9. If this fails to center rotor to where it can be turned freely, tap the other end of the shaft, protecting it as above. When the shaft can be turned by hand—using the wrench as above—it is not binding.