

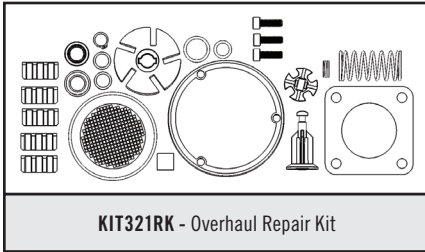
**Replacement Parts Information**

For repairs or routine maintenance, Fill-Rite offers the parts you need. The following parts diagram and list covers all applicable parts for your Fill-Rite product. These parts can be obtained through any authorized Fill-Rite dealer. Be sure to use only genuine Fill-Rite replacement parts for your service and maintenance needs. For a list of authorized dealers, please visit [fillrite.com](http://fillrite.com).

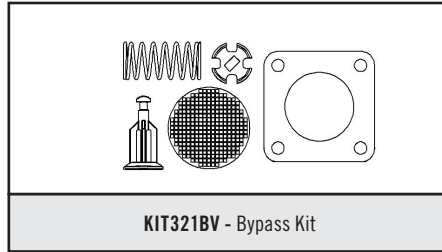


**WARNING**

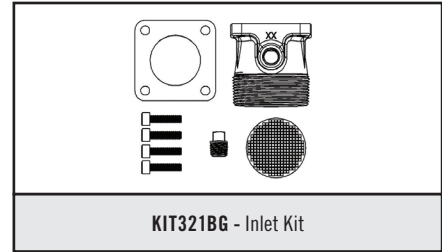
DO NOT open or attempt to repair the motor on your NX25-120 series pump. Opening the motor case can compromise the integrity of the Explosion Proof construction and will void any existing warranty and certification (UL listing). Please refer to the *Warranty Policy* located on page 2.



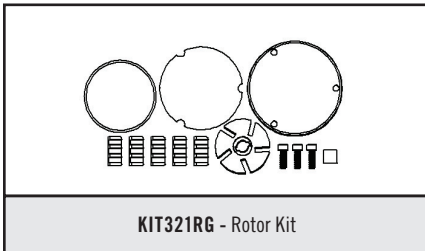
**KIT321RK - Overhaul Repair Kit**



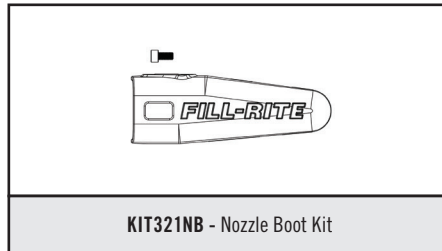
**KIT321BV - Bypass Kit**



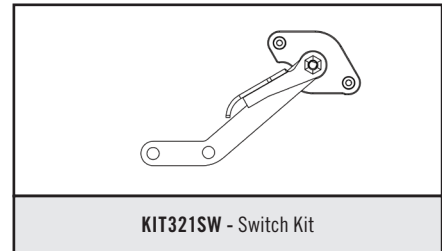
**KIT321BG - Inlet Kit**



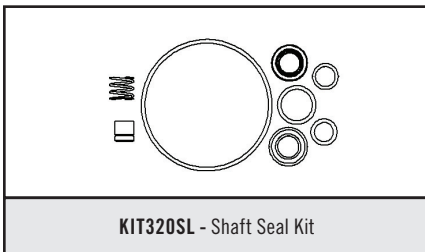
**KIT321RG - Rotor Kit**



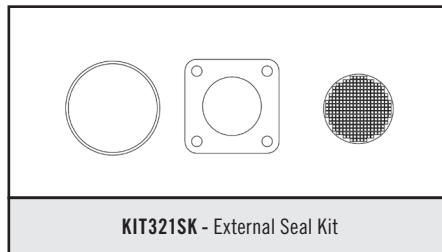
**KIT321NB - Nozzle Boot Kit**



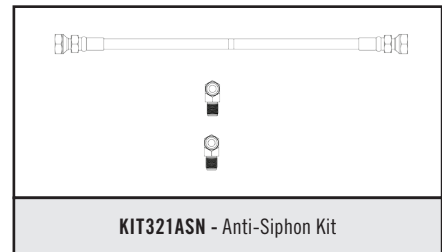
**KIT321SW - Switch Kit**



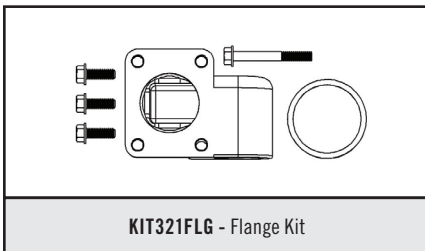
**KIT320SL - Shaft Seal Kit**



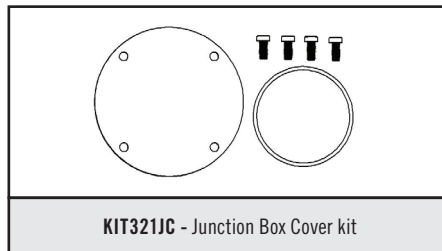
**KIT321SK - External Seal Kit**



**KIT321ASN - Anti-Siphon Kit**



**KIT321FLG - Flange Kit**

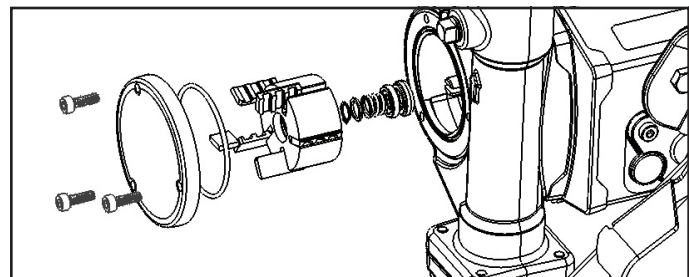


**KIT321JC - Junction Box Cover kit**

**Servicing Rotor, Vanes, and Shaft Seals**

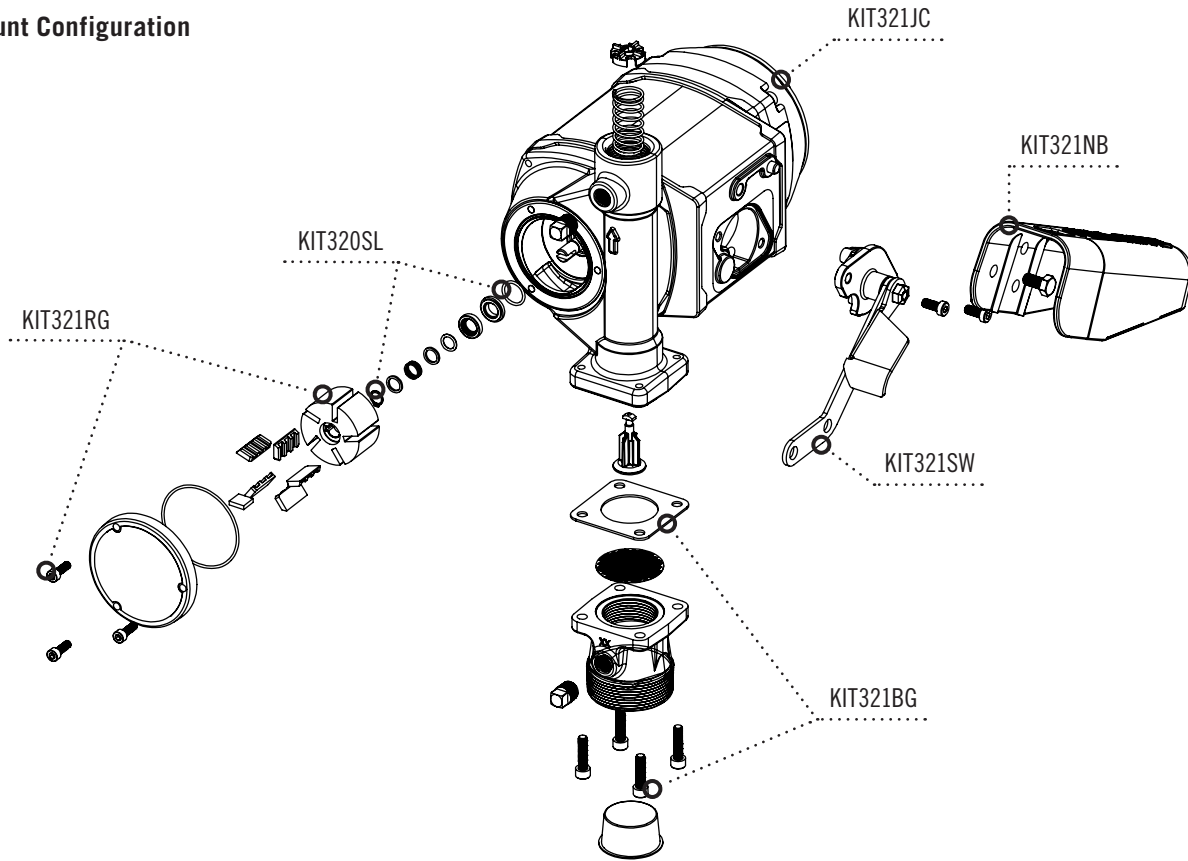
The rotor, vanes, and shaft seals are inside the pump housing, and are accessed through the rotor cover located on the face of the pump. It is held in place with three 4mm hex drive attaching bolts. You can access the rotor and vanes for inspection and cleaning, but **DO NOT** attempt to remove the shaft seals without a new seal kit to install.

Always inspect the rotor cover seal and mating surface (groove) for nicks or damage prior to reassembly. Be certain o-ring is not pinched to prevent leakage. Torque the attaching hardware to 44 in-lbs.

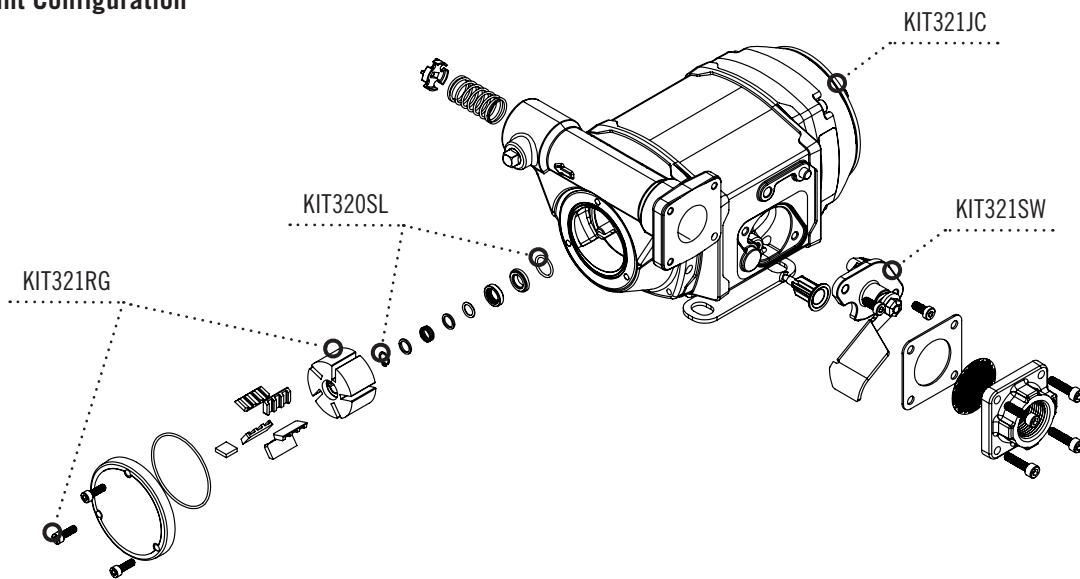


**NX25-120 Exploded View**

**Bung Mount Configuration**



**Foot Mount Configuration**



**Troubleshooting**



Disconnect all power prior to performing any service or maintenance. Failure to disconnect the power may cause electrical shock, or unexpected starting of the motor, resulting in injury or death.



DO NOT open or attempt to repair the motor on your NX25-120 series pump. Opening the motor case can compromise the integrity of the Explosion Proof construction and will void any existing warranty and certification (UL listing). **Please refer to the *Warranty Policy* located on page 2.**

This Troubleshooting Guide provides basic diagnostic assistance. If you have further questions, contact us at 1 (800) 720-5192 (M-F 8 AM–5 PM ET), or at [fillrite.com](http://fillrite.com).

Symptom	Cause	Solution
Pump will not prime	1. Suction line problem	Check suction line for leaks or restrictions; it may be too small in diameter, too long, or not air-tight
	2. Vanes sticking	Check vanes for nicks, damage, obstructions, or excess wear; replace as necessary
	3. Excessive rotor, vane, rotor cover, or housing wear	Inspect rotor, vanes, rotor cover, and housing for excess wear; replace as necessary
	4. Inlet / Outlet blocked	Check pump, hose, nozzle, and filter / strainer for blockage
	5. Excessive vertical or horizontal inlet plumbing	Reduce vertical or horizontal distance from pump to liquid
	6. Bypass valve stuck	Open valve, remove debris
Low capacity	1. Excessive dirt in screen	Remove and clean screen
	2. Suction line problem	Check suction line for leaks or restrictions; it may be too small in diameter, too long, not air-tight, or too low vertically
	3. Excessive rotor, vane, rotor cover, or housing wear	Inspect rotor, vanes, rotor cover, and housing for excess wear; replace as necessary
	4. Hose or nozzle damage	Replace hose or nozzle
	5. Low fluid level	Refill tank
	6. Clogged outlet filter	Replace filter
Pump runs slowly	1. Pump in bypass	Normal operation; pump naturally reduces speed in bypass mode
	2. Vanes sticking	Check vanes for nicks, damage, obstructions, or excess wear; replace as necessary
	<b>3. Motor problem*</b>	<b>Refer to <i>Warranty Policy</i></b>
	4. Excessive outlet restrictions	Reduce outlet restrictions (e.g. use shorter hose, remove swivel)
Motor stalls / breaker trips	1. Short in wiring	Inspect electrical wiring for shorts and replace as necessary
	2. Excess rotor or vane wear	Check vanes for nicks, damage, obstructions, or excess wear; replace as necessary
	3. Pump rotor lock-up*	Clean and inspect rotor and vanes; replace as necessary
	4. Debris in pump cavity	Clean debris from pump cavity

**Bold text** indicates repairs that are not serviceable by the owner; please refer to our *Warranty Policy* on page 2 for further instructions.

\*This condition will shut the motor off.

**Intelligent Tones**

Your nextec pump features a self-diagnostic system that will aid you in troubleshooting should the need arise. The pump will emit a series of tones; note the order and number of high and low pitched tones to determine the fault condition.

Depending on the condition the pump senses, it will generate either a **3-tone code**, or a **4-tone code**:

- **3-Tone codes** indicate an application fault; something dealing with the installation of the pump, like a priming or supply voltage concern.
- **4-Tone codes** indicate a pump fault; a condition outside the operating parameters of the pump, like an over-temperature condition, or something dealing with the pumps internal electronics.

Refer to the table below to determine which condition your pump is detecting, and how to resolve it. In the chart below, arrows pointing up (↑) indicate high tones, arrows pointing down (↓) indicate low tones. Conditions listed in **BOLD** are not field serviceable, and require the pump to be returned to the manufacturer.

**3-Tone Faults** (Application / Installation faults)

Tones	Condition	Solution
↑ ↓ ↓	Low input voltage (auto shut-off)	Check input wiring gauge, length, and connections
↑ ↓ ↑	High input voltage (auto shut-off)	Check incoming voltage
↓ ↑ ↑	Locked rotor (auto shut-off)	Turn switch off and inspect rotor and vanes*
↓ ↑ ↓	Priming / Suction / Lift failure	Check for leaks in suction tube, inlet connections, inside tank plumbing restrictions, excessive vertical suction lift, empty tank

**4-Tone Faults** (Hardware faults)

Tones	Condition	Solution
↓ ↑ ↑ ↑	<b>Hardware fault (auto shut-off)</b>	<b>Troubleshoot as described below**</b>
↓ ↑ ↓ ↓	Hardware over temperature (auto shut-off)	Turn switch off and allow pump to cool*
↓ ↓ ↑ ↑	Motor over temperature (auto shut-off)	Turn switch off and allow pump to cool*
↓ ↓ ↑ ↓	<b>Motor overvoltage (auto shut-off)</b>	<b>Troubleshoot as described below**</b>
↓ ↓ ↓ ↑	<b>Motor undervoltage (auto shut-off)</b>	<b>Troubleshoot as described below**</b>

\*This condition will shut the motor off. To restart the motor, cycle the switch off, then back on, or cycle power to motor.

\*\* Prior to returning pump to place of purchase, perform this procedure: cycle the switch off and disconnect power for at least one minute. Reconnect power, and cycle the switch back on. Verify proper pump operation. If this procedure does not restart the pump, or if you have additional questions, contact Technical Support at 1 (800) 720-5192.