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## **END SUCTION PUMP WITH INTEGRATED VARIABLE FREQUENCY DRIVE REPLACEMENT PARTS GUIDE**

### **TYPE LFE**

*This guide is valid for all Grundfos CBS Inc. products beginning with product code 21.*

Grundfos CBS Inc. End Suction Pumps are designed and built to provide maximum life while requiring minimum attention and service. At times, replacement parts may be required. **VIRTUALLY ALL REQUIRED PARTS ARE AVAILABLE IN KIT FORM.**

These kits (easily selected from the charts on the following pages) have been designed to insure that any parts needed when replacing any End Suction component, are furnished when you need them, with minimum effort.

#### **Guidelines and Suggestions:**

The pump nameplate contains all data required in the selection and ordering of the proper replacement parts kit. The PUMP MODEL AND SERIAL NUMBER should be referenced when ever any replacement parts kit is ordered, while the **pump conditions** (GPM/TDH) and **impeller trim** are required data for the ordering of replacement impellers.

<b>NOTE: SEAL/PACKING KITS ARE ALWAYS RECOMMENDED AS SPARE PARTS</b>
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#### **TO REPLACE A MECHANICAL SEAL**

Select the correct Seal Kit, which contains all gaskets and impeller hardware. Shaft sleeve inspection is suggested.

#### **TO REPLACE THE PACKING**

Select the correct Packing Kit, which contains all gaskets, impeller hardware and lantern ring. If the packing gland is damaged it may be replaced by ordering the proper Gland Kit. A shaft sleeve or adapter shaft will probably be required.

#### **TO REPLACE THE SHAFT SLEEVES**

Select sleeve from sleeve chart. A Seal or Packing Kit will provide other normally needed parts.

#### **TO REPLACE THE BEARING FRAME**

Select the correct Bearing Frame assembly.

#### **TO REPLACE IMPELLER**

Select the correct Impeller Kit which contains all gaskets and impeller hardware. A Wear Ring Kit is highly Recommended, and a Seal or Packing Kit will probably be required. Shaft sleeve inspection is suggested.

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**TO REPLACE WEAR RINGS**

Select the correct Wear Ring Kit. An Impeller Kit may be indicated if wear is excessive. A Seal/Packing Kit will provide all other normally replaced components.

**TO REPLACE BEARINGS (Frame mounted pumps only)**

Select the correct Bearing Frame Kit, which contains the bearings and moisture seals.

**TO REPLACE THE SHAFT**

Select the correct Shaft Kit. A Bearing Frame Kit and shaft sleeve will also be required.  
A Seal or Packing Kit will probably be required.

**TO REPLACE LOST OR DAMAGED HARDWARE**

Select the correct Hardware Kit.

**TO OVERHAUL THE PUMP**

Select an Impeller Kit, Wear Ring Kit, Hardware Kit, Seal or Packing Kit, and a Sleeve or Adapter Shaft. Bearing replacement may also be indicated.

**TO OVERHAUL THE BEARING FRAME**


Select a Bearing Frame Kit and a Shaft Kit.

**TO REPLACE SLINGER (Included in Shaft Kit)**

If not replacing shaft, order individually.

**ORDERING:**

After determining and selecting the required Kit(s), or for selection assistance, contact your local Grundfos Sales Office, Representative, or Distributor.

<b>GRUNDFOS</b> 										<b>LFE</b>	
										5/2014	
										Supersedes None	
Model No.	Pump Constr. Code	Impeller Kit			Wear Ring Kit	Hardware Kit	Sleeve	Seal Kit	Packing Kit	Gland	
		Bronze	N.A. Bronze	Iron							
1070-7	X3XXXX	91911005	97679766	-	91910538	91910593	See page 5 for sleeve selection	See page 6 for seal selection	91910834	91910643	
1270-9	X3XXXX	91911000	97909161	91911001	91910539	91910593			91910834	91910643	
1570-5	X3XXXX	91909739	97850072	91909740	91910540	91910593			91910834	91910643	
2070-9	X3XXXX	91911595	97776120	91911596	91910541	91910593			91910834	91910643	
2570-7	X3XXXX	91909762	97891615	91909763	91910542	91910593			91910834	91910643	
3070-7	X3XXXX	91909772	97661731	91909773	91910544	91910593			91910834	91910643	
4070-7	X3XXXX	91909783	97908496	91909784	91910548	91910593			91910834	91910643	
1595-1	X3XXXX	91909791	96699310	91909792	91910540	91910595			91910834	91910643	
1595-5	X3XXXX	91909793	97852485	91909795	91910540	91910595			91910834	91910643	
1595-9	X3XXXX	91911017	97692479	91911018	91910540	91910595			91910834	91910643	
2095-3	X3XXXX	91909815	97948034	91909816	91910541	91910595			91910834	91910643	
2595-7	X3XXXX	91911369	97745127	91911370	91910542	91910595			91910834	91910643	
3095-7	X3XXXX	91911630		91911633	91910543	91910595			91910834	91910643	
3095-7	XAXXXX	91911637		91911638	91910567	91910596			91910847	91910644	
4095-7	X3XXXX	91909863		91909865	91910549	91910596			91910834	91910643	
5095-7	X4XXXX	91909887		91909891	91910551	91910596			91910847	91910644	
6095-1	XAXXXX	91909898	97713071	-	91910554	91910596			91910847	91910644	
2012-1	X3XXXX	91909901		91909902	91910541	91910598			91910834	91910643	
2512-3	X3XXXX	91909908	97825585	-	91910542	91910598			91910834	91910643	
3012-1	XAXXXX	91909919		-	91910555	91910599			91910847	91910644	
3012-7	XAXXXX	91911375		91911376	91910555	91910599			91910847	91910644	
4012-9	XAXXXX	91911367		91911368	91910556	91910599			91910847	91910644	
4012-A	XAXXXX	91909218		-	91910556	91910599			91910847	91910644	
5012-3	XAXXXX	91909957		91909958	91910558	91910599			91910847	91910644	

**BEARING FRAME ASSEMBLY**

Const. Code Bearing Frame Number	Catalog Number		Steel Shaft Greaseable	Stainless Shaft Greaseable	Steel Shaft Oil Lubed	Stainless Shaft Oil Lubed
	Steel Shaft Greased For Life	Stainless Shaft Greased For Life				
XX3LXX	91869852	91869858	-	-	-	-
XX6LXX	91869853	91869859	-	-	-	-

**BEARING KIT AND SHAFT KIT**

Frame Size	Bearing Kit Number	Shaft Kit Number (Steel)	Shaft Kit Number (Stainless)
XX3LXX	91911769	91911777	91911778
XX6LXX	91911772	91911779	91911780

**SHAFT SLEEVES**

Motor or Bearing Frame	Const. Code	Seal	Packing	Sleeve Material	Part Number
#3L	X3	X		Bronze	91843687
		X		Stainless	91843690
	'03		X	Bronze	91843687
			X	Stainless	91843690
JP, CCP	#6L	X4	X	Bronze	91843632
			X	Stainless	91843636
	'04		X	Bronze	91843632
			X	Stainless	91843636
#6L	XA	X		Stainless	91843814
			X	Bronze	91843812
			X	Stainless	91843814

Seal Kits

Pump Model	Pump Const. Code	Std. Seal BUNA - Cer. Seat C-Code 1XXXXX	Std. Seal BUNA - Sil. Seat C-Code 7XXXXX	Viton - Ni-Resist Seat C-Code 6XXXXX	Viton - Tung. Car. Seat C-Code 2XXXXX	Viton - Ni-Resist Seat Liq. Jcktd. C-Code 9XXXXX	BUNA - Cer. Seat Dbl. Mech Std. Seal C-Code 3XXXXX	BUNA - Sil. Seat Bal. Seal C-Code 8XXXXX	EPDM - Sil. Seat Std. Seal C-Code FXXXXX	EPDM - Sil. Seat Liq. Jcktd. C-Code GXXXXX
1070 1270 1570 3070 4070	X3XXXX	91909832	91909838	91909837	91909834	91909838	91909836	91909840	91909846	K105-G
1595 2095 2595 3095 4095	X3XXXX	91909832	91909838	91909837	91909834	91909838	91909836	91909840	91909846	K105-G
5095	X4XXXX	91909874	91909879	91909878	91909875	91909879	91909876	91909880	91909883	K106-G
3095 6095	XAXXXX	91910609	91910612	91910611	91910610	-	-	-	91910614	-
2012 2512	X3XXXX	91909909	91909913	91909912	91909910	91909913	91909911	91909914	K107-F	K107-G
3012 4012 5012	XAXXXX	91910715	91910718	91910717	91910716	-	-	-	91910722	-

**GASKETS**

Pump Size (Nominal Max. Impeller Dia.)	Const. Code	Seal I.D. (in)	Gasket P/N	Gasket Description
7"	X3, X4	.625, 1.25, 1.75	91869180	Volute "O" Ring
9.5"	X3, X4, XA	1.25, 1.75	91849028	Volute Gasket
			91869180	"O" Ring-Backplate
12"	X3, XA	1.25, 1.75	91848843	Volute Gasket
			91869180	"O" Ring-Backplate

**SLINGERS**

Const. Code	Part Number
X3	91867835
X4,XA	91867849

**EXPLANATION OF PUMP CATALOG**  
(Refer to Pump Nameplate)

**XX**  
**Product**  
**Code**

**XXXXX**  
**Model**  
**Number**

**XXXXXX**  
**Construction**  
**Code**

**NOTE:** This Replacement Parts Guide is valid for all Grundfos CBS Inc. products beginning with product code 21 only.

**KIT COMPONENTS**

**Impeller Kit:**  
Impeller  
Volute Gasket  
Backplate Gasket  
Impeller Cap Screw  
Impeller Washer  
Impeller Key  
Impeller Nut

**Seal Kit:**  
Mechanical Seal  
Volute Gasket  
Backplate Gasket  
Seal Cap Gasket  
Impeller Cap Screw  
Impeller Washer  
Impeller Key  
Impeller Nut

**Packing Kit:**  
Packing Seal  
Volute Gasket  
Backplate Gasket  
Lantern Ring  
Impeller Cap Screw  
Impeller Washer  
Impeller Key  
Impeller Nut

**Wear Ring Kit:**  
Wear Rings

**Bearing Frame**  
Assembly

**Gland Kit:**  
Packing Gland  
Studs  
Nuts  
Bolts  
Washers  
Retaining Ring

**Sleeves:**  
(Non-Kitted)  
Bronze  
Stainless Steel

**Bearing Frame Kit:**  
Ball Bearings  
Moisture Seals  
Retaining Rings

**Hardware Kit:**  
Cap Screws

**Shaft Kit:**  
Shaft  
Slinger  
Keys

**Gaskets:**  
(Non-Kitted)

**NOTE:** Kits may contain all parts listed. They are individually selected for each pump and its construction.

**NOTE:** Seal/Packing Kits are always recommended as spare parts.