

END SUCTION PUMPS REPLACEMENT PARTS GUIDE TYPE LC, LF, LCV

*This guide is valid for all Grundfos CBS products beginning with product codes 10, 11 and 20.
See back cover for explanation and identification.*

Grundfos CBS 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.

NOTE: SEAL/PACKING KITS ARE ALWAYS RECOMMENDED AS SPARE PARTS

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.

**NOTE: For close-coupled units, motor frame type is required for proper sleeve replacement.
Motor type is indicated by frame designation, found on motor nameplate:**

Gyropoise Motors - Frame XXX **TG**
 JM Motors - Frame XXX **JM** or **JMZ**
 CCP Motors - All Others
 (Fractional construction X0XXXX and X1XXXX
 do not require sleeves.)

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.

*Re-select trim for stainless steel impeller if replacing a bronze impeller

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 CBS Sales Office, Representative or Distributor.

Model No.	Pump Constr. Code	Impeller Kit (1)				Wear Ring Kit	Hardware Kit	Sleeve	Seal Kit	Packing Kit	Gland -
		Stainless*	Bronze	N.A. Bronze	Iron						
1250-1	X0XXXX	97683831	91909689		91909690	-	91910591			-	-
1250-5	X0XXXX		91909691		91909692	-	91910591			-	-
1250-7	X0XXXX	99073365	91911544		91911545	-	91910591			-	-
1550-1	X0XXXX		91909691		91909692	91910537	91910591			-	-
1550-1	X1XXXX	99073366	91909699			91910537	91910591			-	-
1550-1	X3XXXX	99073367	91910844		-	91910850	91910838			-	-
1550-5	X0XXXX		(4) 91911011		(4) 91911012	-	91910591			-	-
1550-5	X1XXXX		(4) 91911013		(4) 91911014	-	91910591			-	-
1550-5	X3XXXX		(4) 91911015		(4) 91911016	-	91910838			-	-
1550-7	X0XXXX	99074524	91911011		91911012	-	91910591			-	-
1550-7	X1XXXX	99074538	91911013		91911014	-	91910591			-	-
1550-7	X3XXXX	99074541	91911015		91911016	-	91910838			-	-
1550-9	X0XXXX		91911544	96899368	91911545	91910537	91910591			-	-
1550-9	X1XXXX		K2323-B		K2323-C	-	91910591			-	-
1550-9	X3XXXX		91911546		91911547	91910850	91910838			-	-
2050-1	X0XXXX	97530216	91909706		91909707	-	91910591			-	-
2050-1	X1XXXX	99074552	91909708		-	-	91910591			-	-
2050-1	X3XXXX	99074575	91910846	97784919	-	-	91910838			-	-
3050-1	X1XXXX	99074576	91909716		-	-	91910591			-	-
3050-1	X3XXXX	99074577	91910849		-	-	91910838			-	-
1070-5	X0XXXX		(5) 91911003		(5) 91911004	91910538	91910592			-	-
1070-5	X3XXXX		(5) 91911005	97679766	-	91910538	91910593			91910834	91910643
1070-7	X0XXXX	97518321	91911003		91911004	91910538	91910592			-	-
1070-7	X3XXXX	96656930	91911005	97679766	-	91910538	91910593			91910834	91910643
1270-5	X0XXXX		91909723		-	91910539	91910592			-	-
1270-5	X3XXXX		91909724		91909725	91910539	91910593			91910834	91910643
1270-7	X0XXXX		(6) 91910999		(6) K1962-C	91910539	91910592			-	-
1270-7	X3XXXX		(6) 91909727		(6) 91909728	91910539	91910593			91910834	91910643
1270-9	X0XXXX	99075794	91910999		-	91910539	91910592			-	-
1270-9	X3XXXX	98563922	91911000	97909161	91911001	91910539	91910593			91910834	91910643
1570-1	X0XXXX		91909734		#N/A	91910540	91910592			-	-
1570-1	X3XXXX		91909735		91909736	91910540	91910593			91910834	91910643
1570-5	X0XXXX	99075802	91909737		91909738	91910540	91910592			-	-
1570-5	X3XXXX	97847338	91909739	97850072	91909740	91910540	91910593			91910834	91910643
2070-5	X0XXXX		91909741		-	91910541	91910592			-	-
2070-5	X3XXXX		91909742		91909743	91910541	91910593			91910834	91910643
2070-7	X0XXXX		91909748		-	91910541	91910592			-	-
2070-7	X3XXXX		91909749		91909750	91910541	91910593			91910834	91910643
2070-7	X4XXXX		91909754	98095291	91909755	91910541	91910594			91910847	91910644
2070-9	X0XXXX		91911589		91911590	91910541	91910592			-	-
2070-9	X3XXXX	99061295	91911595	97776120	91911596	91910541	91910593			91910834	91910643
2070-9	X4XXXX	99051921	91911601	91911601	91911602	91910541	91910594			91910847	91910644
2570-5	X3XXXX		91909758		91909759	91910542	91910593			91910834	91910643
2570-5	X4XXXX		91909760		91909761	91910542	91910594			91910847	91910644
2570-7	X3XXXX	96882778	91909762	97891615	91909763	91910542	91910593			91910834	91910643
2570-7	X4XXXX	99013226	91909765	98355688	91909766	91910542	91910594			91910847	91910644
3070-5	X3XXXX		91909768		91909769	91910543	91910593			91910834	91910643
3070-5	X4XXXX		91909770		91909771	91910543	91910594			91910847	91910644
3070-7	X3XXXX	96742711	91909772	97661731	91909773	91910544	91910593			91910834	91910643
3070-7	X4XXXX	98961148	91909777		91909778	91910544	91910594			91910847	91910644
4070-5	X3XXXX		91909779		91909780	91910546	91910593			91910834	91910643
4070-5	X4XXXX		91909781		91909782	91910580	91910594			91910847	91910644
4070-7	X3XXXX	97698632	91909783	97908496	91909784	91910548	91910593			91910834	91910643
4070-7	X4XXXX	96743206	91909788	98158554	91909789	91910582	91910594			91910847	91910644
4070-7	X4-(JM MTR)		91909788	98158554	91909789	91910583	91910594			91910847	91910644
1595-1	X3XXXX	99075854	91909791	96699310	91909792	91910540	91910595			91910834	91910643
1595-5	X3XXXX	99075855	91909793	97852485	91909795	91910540	91910595			91910834	91910643
1595-5	X4XXXX	99075856	91909796	97757383	91909797	91910540	91910596			91910847	91910644
1595-7	X3XXXX		91911017(7)		91911018(7)	91910540	91910595			91910834	91910643
1595-7	X4XXXX		91911019(7)	97710406	91911020(7)	91910540	91910596			91910847	91910644
1595-9	X3XXXX	99075859	91911017	97692479	91911018	91910540	91910595			91910834	91910643
1595-9	X4XXXX	97635780	91911019	97710406	91911020	91910540	91910596			91910847	91910644

See page 6 for sleeve selection

See page 7 for seal selection

(1), (4), (5), (6), (7), (8) See Notes on Page 5.

*Re-select trim for stainless steel impeller if replacing a bronze impeller

- NOTES:**
- (1) Specify Impeller diameter when ordering.
 - (4) Select trim diameter for conditions from appropriate curve 1550-7.
 - (5) Select trim diameter for conditions from appropriate curve 1070-7.
 - (6) Select trim diameter for conditions from appropriate curve 1270-9.
 - (7) Select trim diameter for conditions from appropriate curve 1595-9.
 - (8) Select trim diameter for conditions from appropriate curve 2595-3.

BEARING FRAME ASSEMBLY

Const Code Bearing Frame Number	Steel Shaft Greased For Life	Stainless Shaft Greased For Life	Steel Shaft Greaseable	Stainless Shaft Greaseable	Steel Shaft Oil Lubed	Stainless Shaft Oil Lubed
XX10XX*	91869771	91869768	-	-	-	-
XX32XX*	20060616	20061569	-	-	-	-
XX3PXX	99027469	-	-	-	-	-
XX3AXX	-	-	91869800	91869801	-	-
XX3LXX	91869852	91869858	-	-	-	-
XX3NXX	-	-	91869856	91869861	-	-
XX3MXX	-	-	-	-	91869855	91869860
XX6PXX	99026846	-	-	-	-	-
XX62XX*	20060663	20061571	-	-	20062601	-
XX6CXX	-	-	20061588	20061781	-	-
XX6KXX	-	91869811	-	-	-	-
XX6LXX	91869853	91869859	-	-	-	-
XX6NXX	-	-	91869857	91869863	-	-
XX6MXX	-	-	-	-	91869855	91869862
XX82XX	91869770	91869786	-	-	91869849	-
XX8AXX	-	-	91869772	91869787	-	-
XX88XX	91869808	91869809	-	-	-	-
XX89XX	-	-	20062629	20062630	-	-
XX90XX	91869769	91869788	-	-	-	-
XX9AXX	-	-	91869776	91869789	-	-
XX9PXX	91869804	91869806	-	-	-	-
XX9QXX	-	-	91869805	20062035	-	-
XX93XX	-	-	91869773	91869796	-	-

Bearing Frame Number	Bearing Kit Number	Shaft Kit Number (Steel)	Shaft Kit Number (Stainless)
XX10XX	91911044	-	-
XX22XX*	91911060	91911320	91911533
XX3PXX	91911769	91911777	91911778
XX32XX	91911071	91911340	91911552
XX3AXX	91911173	91911351	91911563
XX3LXX	91911769	91911777	91911778
XX3NXX	91911771	91911777	91911778
XX3MXX	91911770	91911777	91911778
XX6PXX	91911772	91911779	91911780
XX62XX	91911082	91911362	91911574
XX6CXX	91911093	91911362	91911574
XX6LXX	91911772	91911779	91911780
XX6NXX	91911774	91911779	91911780
XX6MXX	91911773	91911779	91911780
XX6KXX	91911082	-	91911378
XX82XX	91911104	91911389	91911624
XX8AXX	91911184	91911389	91911624
XX88XX	91911104	91911389	91911624
XX89XX	91911184	91911389	91911624
XX90XX	91911128	91911403	-
XX9AXX	91911139	91911403	-
XX9PXX	91911128	91911416	-
XX9QXX	91911139	91911416	-

Note: * THE 10,22, 32, 62 BEARING FRAME IS OBSOLETE.

SHAFT SLEEVES AND ADAPTER SHAFTS

1. Shaft Sleeves (1) See Page 1 Prior to Making Selections.

Motor or Bearing Frame	Const. Code	Seal	Packing	Sleeve Material	Part Number
Fractional #10	X0XXXX	X			None
Integral -	X1XXXX	X			None
#22	X3	X		Bronze	91843615
		X		Stainless	91843616
Gypropoise (TG) #32, 3A #3L, 3N 3M, 3P	X3	X		Bronze	91843687
		X		Stainless	91843690
	'03		X	Bronze	91843687
			X	Stainless	91843690
	83	X		Bronze	91843784
		X		Stainless	91843785
93	X		Bronze	91843749	
	X		Stainless	91843750	
JM	X3	X		Bronze	91843842
		X		Stainless	91843844
83	X	X		Bronze	91843861
		X		Stainless	91843862
JP, CCP	X3	X		Bronze	91843618
		X		Stainless	91843625
	'03		X	Bronze	91843618
			X	Stainless	91843625
83	X	X		Bronze	91843850
		X		Stainless	96769942
JP, CCP #62, 6C, 6P #6L, 6N, 6M	X4	X		Bronze	91843632
		X		Stainless	91843636
	'04		X	Bronze	91843632
			X	Stainless	91843636
84	X	X		Bronze	91843863
		X		Bronze	91843796
JM	X4	X		Bronze	91843803
		X		Stainless	91843804
	84	X	X		Bronze
X				Stainless	91843869
JP, CCP #62, 6C, 6P #6L, 6N, 6M #62, 6C, 6K	0A	X		Bronze	91843812
		X		Stainless	91843814
	XA		X	Bronze	91843812
		X	Stainless	91843814	
JM	XA	X		Bronze	91843858
		X		Stainless	91843859
CCP #82, 88, 89, 8A	X5	X (2)		Bronze	91843739
		X		Stainless	91843740
			X	Bronze	91843724
CCP #90, 9A, 9P, 9Q	X6	X		Bronze	91843757
		X		Stainless	91843759
			X	Bronze	91843744
		X	Stainless	91843747	

ADAPTER SHAFTS

Motor	Const. Code	Packing	Kit No.
JM	X3	X	91910648
	X4	X	91910649
	XA	X	91910650

(1) Requires 91893784 Tube of Loctite.

(2) Standard single seal only. For double, liquid jacketed or teflon type 9 seal, use the sleeve designated for packing.

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
1250 1550 2050	X0XXXX	91909684	91909687	91909686	91909685	-	-	-	91909688	-
1550 2050 3050	X1XXXX	91909719	91909722	91909721	91909720	-	-	-	K101-F	-
1070 1270 1570 2070	X0XXXX	91909744	91909747	91909746	91909745	-	-	-	K102-F	-
1070 1270 1570 2070 2570 3070 4070	X3XXXX	91909832	91909838	91909837	91909834	91909838	91909836	91909840	91909846	K105-G
2070 2570 3070 4070	X4XXXX	91909802	91909806	91909805	91909803	91909806	91909804	K104-8	91909808	K104-G
1595 2095 2595 3095 4095	X3XXXX	91909832	91909838	91909837	91909834	91909838	91909836	91909840	91909846	K105-G
1595 2095 2595 3095 4095 5095	X4XXXX	91909874	91909879	91909878	91909875	91909879	91909876	91909880	91909883	K106-G
3095 4095 6095	XAXXXX	91910609	91910612	91910611	91910610	-	-	-	91910614	-
6095	X4XXXX	91910707	91910709	91910708	K140-2	-	K140-3	-	K140-F	-
2012 2512	X3XXXX	91909909	91909913	91909912	91909910	91909913	91909911	91909914	K107-F	K107-G
2012 2512 3012 4012 5012 6012	X4XXXX	91909944	91909948	91909947	91909945	-	-	-	91909949	-
2012 2512 3012 4012 5012 6012	XAXXXX	91910715	91910718	91910717	91910716	-	-	-	91910722	-
6012 8012	X5XXXX	91910061	91910066	91910065	91910063	-	91910064	-	K109-F	-
3015 4015	X4XXXX	91910149	91910151	91910150	K110-2	-	-	-	K110-F	-
3015 4015	XAXXXX	91910629	91910632	91910631	91910630	-	-	-	K128-F	-
4015 5015 6015 8015	X5XXXX	91910192	91910196	91910195	91910193	-	91910194	-	K111-F	-
6015 8015 1015	X6XXXX	91910246	91910250	K112-6	91910247	-	91910248	-	K112-F	-

GASKETS

Pump Size (Nominal Max. Impeller Dia.)	Const. Code	Seal I.D. (in)	Gasket P/N	Gasket Description
5"	X0, X1	.625, .75	91848917	Volute Gasket
7"	X0, 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
9.5"	X5	2.25	91849028	Volute Gasket
12"	X3, XA	1.25, 1.75	91848843	Volute Gasket
			91869180	"O" Ring-Backplate
12"	X5	2.25	91848843	Volute Gasket
			91849000	Backplate Gasket
15"	XA	1.75	91848882	Volute Gasket
			91869180	"O" Ring-Backplate
15"	X5, X6	2.25, 2.75	91848882	Volute Gasket
			91849000	Backplate Gasket

SLINGERS

Const. Code	Part Number
X0	91867837
X1	91867839
X3	91867835
X4,XA	91867849
X5	91867832
X6	91867846

**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 products beginning with product codes 10, 11 and 20 only.

Product Code 10 = Close coupled End Suction, type LC

Product Code 11 = Closed Coupled Vertical Mount, type LCV

Product Code 20 = Framed Mounted End Suction, type LF

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

Adapter Shafts:
303 Stainless Steel
Adapter Shaft
Key
Rollpin

Shaft Kit:
Shaft
Slinger
Keys

Hardware Kit:
Cap Screws

**Gaskets:
(Non-Kitted)**

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

Kits may contain gaskets wherever gasket replacement is indicated, as noted above.
Should "individual" gaskets be required, see page 8.

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