

Parts Manual

LDU21C

Closed Circuit Axial Piston Transmission



Revision history*Table of revisions*

Date	Changed	Rev
February 2025	Major update	0102
January 2022	the first edition	0101

Contents

General information

Service Parts Identification.....	4
Nameplate.....	4
Date code.....	5
About service bulletins.....	5
Procedure to identify a part.....	5
General.....	5
Example of a Part Identification.....	5
Order code.....	6

Variable Pump & Fixed Motor

Displacement.....	7
Valve Plate.....	9
Control Arm (Left).....	11
Control Arm (Right).....	13
Pump Shaft.....	15
Motor Shaft.....	21
Center Section.....	23
Charge Pressure Relief Valve.....	27
High Pressure Relief Valve (Left).....	29
High Pressure Relief Valve (Right).....	31
Special Hardware.....	33

General information

Service Parts Identification

The following information and procedure is used to identify the module group, item number, manufacture date, part number, and part name of the parts included in the LDU21C Closed Circuit Axial Piston Transmission.

The parts listed include all parts which may be used when performing either "Minor Repairs", "Major Repairs" or "Conversions" on the LDU21C transmission unit.

Nameplate

Each unit will have a nameplate affixed to the housing. The nameplate will include the following information:

Model Number/Identification Number

The Danfoss model/ident number is used by the factory in manufacturing. On repeat orders, a complete unit can be ordered by the model/ident number.

Serial Number

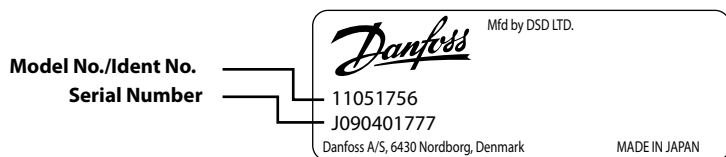
The Danfoss serial number is used to identify the manufacture date and the unit sequence in the build. The serial number is also used to identify the units warranty time period.

The letter code indicates the location of original manufacture (assembly). "J" indicates the unit was originally assembled in Osaka, Japan.

The first number (2 digits) indicates the year of manufacture. ("09" would indicate the unit was manufactured in 2009).

The second number (2 digits) indicates the calendar week of manufacture.

The third number (5 digits) is a sequential number used to identify a specific unit.



P400719

General information

Date code

The date code is defined as the year and week of manufacture. The same item number may list more than one part number. This indicates that there is more than one configuration for that item number. You will see that there are different date codes for the different part numbers. Find the date code of your unit from the nameplate to determine which service part number you need to order.

Example: The service part desired is item G30

Order Code	Item	Date Begin	Date End	Part Number	Part Name	Qty. per Model/Kit
80	G30	89-17		8000243	End cap gasket	1
	G30		89-16	8000151	End cap gasket (SB-1995-006)	1

All units using this order code with a date code prior to 89-17 must use part number "8000151." All units with a date code of 89-17 and newer must use part number "8000243."

About service bulletins

A Service Bulletin Number (SB-____-____) may follow the "Part Name" of the part you desire. You must read that Service Bulletin prior to ordering that part. The information contained in these Service Bulletins, as of the print date of this bulletin, are included at the end of this manual. Service Bulletins contain more detailed information such as interchangeability, what additional parts are involved, etc. It is suggested that you add additional Service Bulletins to this manual as you receive them.

Procedure to identify a part

General

The modular design of LDU21C units results in a simplified service parts list and part number identification procedure.

The same item numbers are used for same part names on all units within a product type. (Example: The lip seal – Item F115 has the same item number on all units.)

Example of a Part Identification

The nameplate on a LDU21C unit has an Order Code of LDU 21C RA RF KA B D N 07 N 17A 17A NNN NNN.

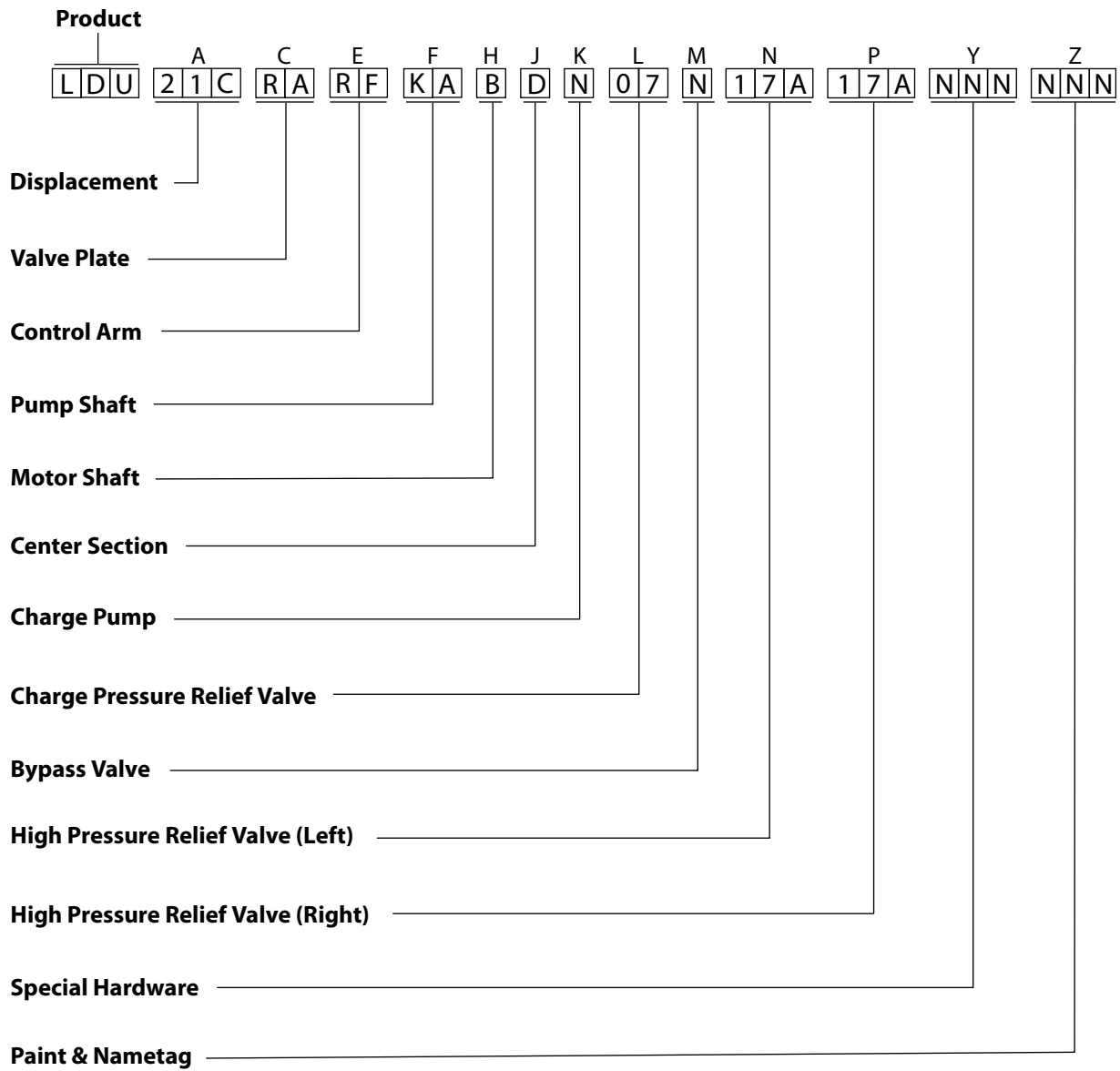
Use the following procedures to determine the part number of the drive shafts used on this unit.

Referring to the Pump Shaft module in the Order Code (see page 16), the pump shaft option for this unit is identified by the code "KA". (LDU 21C RA RF KA B D N 07 N 17A 17A NNN NNN).

Referring to the Service Parts List, find the Pump Shaft group. Next find the order code that relates to this unit, which is "KA". The pump shaft is found to be item F100 and part number 11134928.

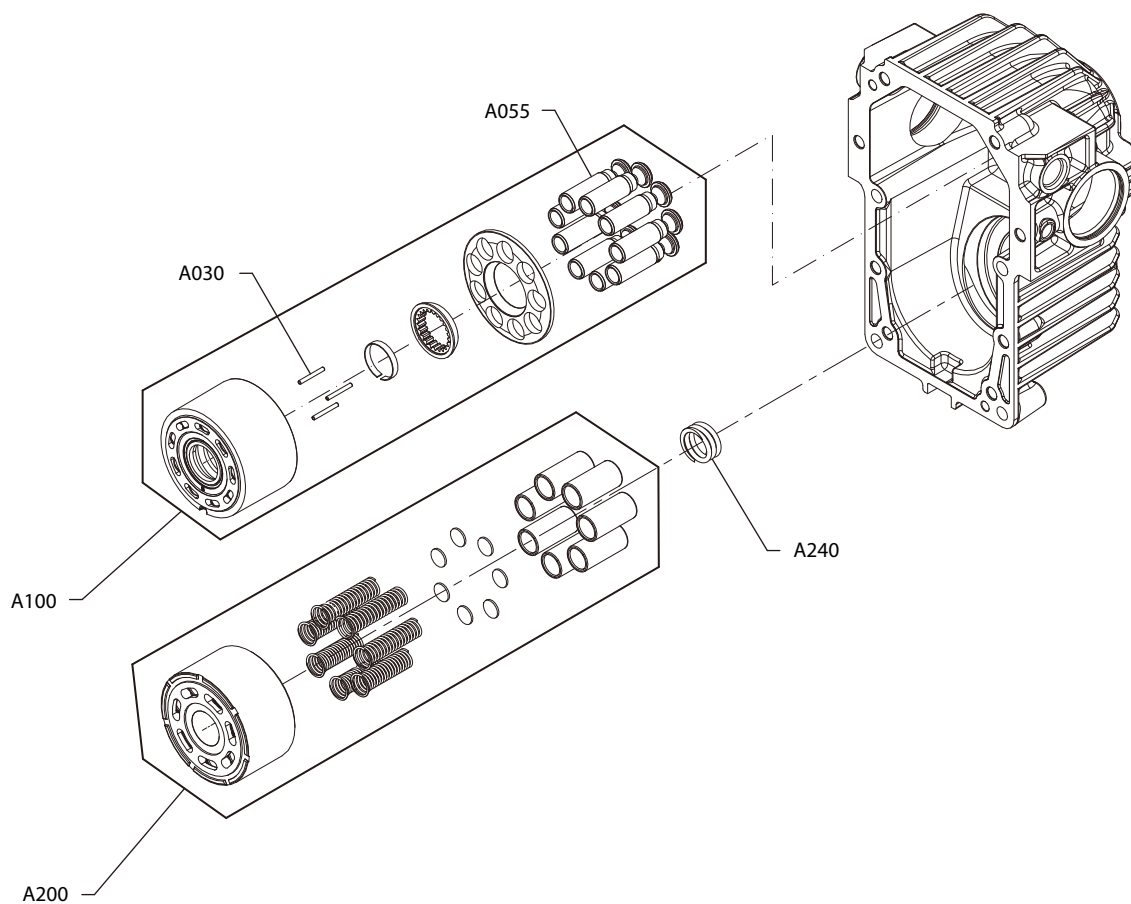
General information

Order code



Variable Pump & Fixed Motor

Displacement



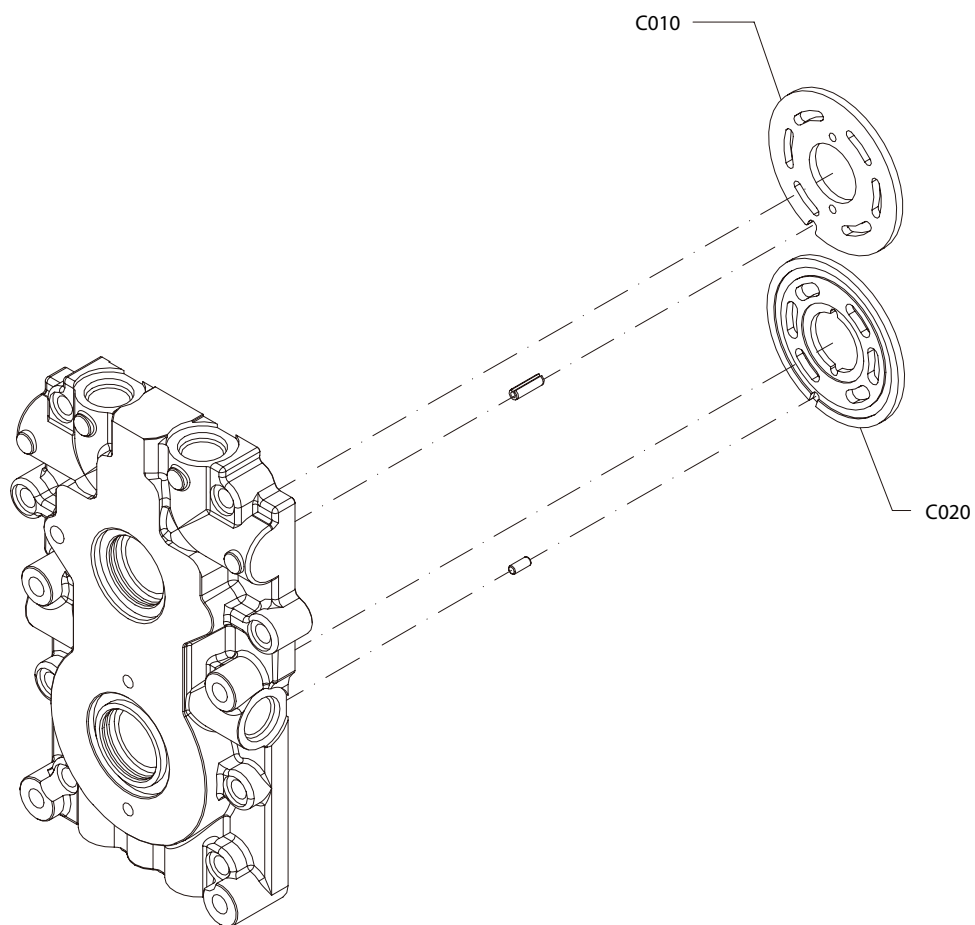
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Variable Pump & Fixed Motor*Displacement*

Order Code	Item	Date Begin	Date End	Part Number	Part Name	Qty. per Model/Kit
21C	A100	16-21		11180126	CYLINDER BLOCK ASSY, LDU21HB	1
	A200	08-07		1745214	CYL BLOCK SPL BDU-21 ASSY	1
	A240	08-07		1743962	CYLINDER BLOCK SPRING	1
	A030	08-41		11051744	PIN-SLIPPER HOLDDOWN, 20CC	3
	A055	08-44		11051761	PISTON ASSY, 20CC	9

Variable Pump & Fixed Motor

Valve Plate



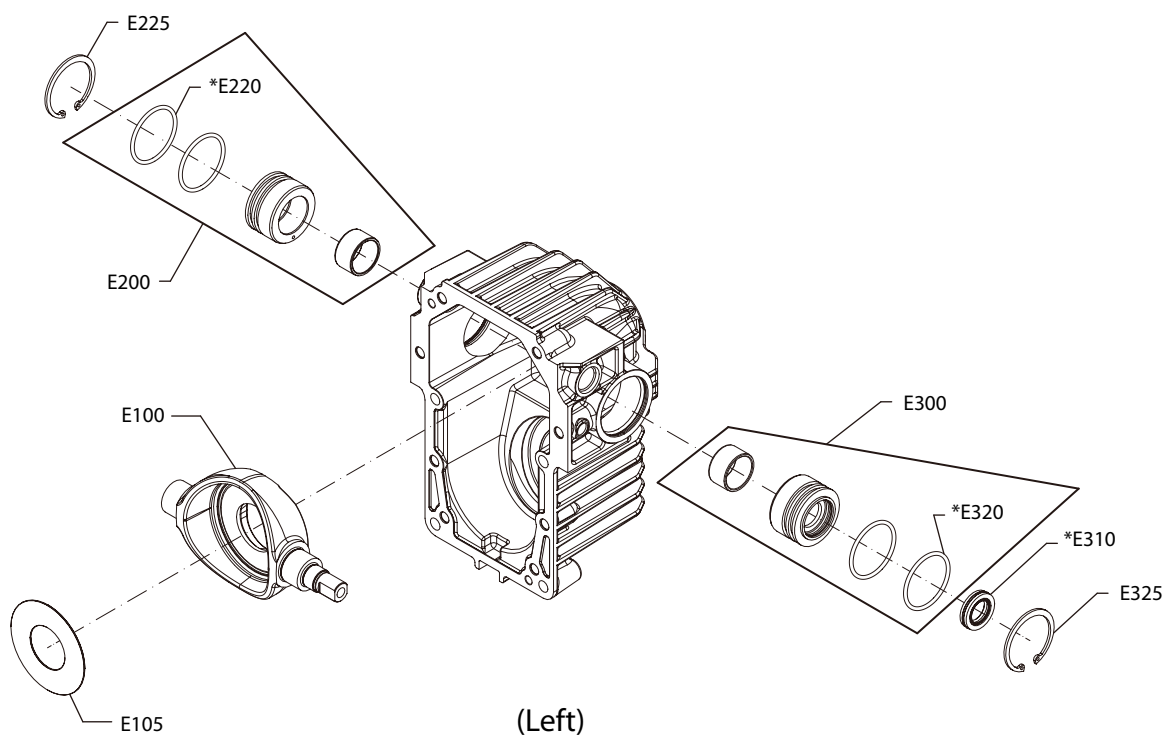
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Variable Pump & Fixed Motor
Valve Plate

Order Code	Item	Date Begin	Date End	Part Number	Part Name	Qty. per Model/Kit
LA	C010	15-39		11147014	VALVEPLATE-PUMP, CP6.5, CCW, LDU20HB	1
	C020	15-39		11146248	VALVEPLATE-MOTOR, LDU20HB	1
RA	C010	21-09		11173382	VALVEPLATE-PUMP, CP6.5, CW, LDU21C	1
	C020	15-39		11146248	VALVEPLATE-MOTOR, LDU20HB	1
LB	C010	20-21		11256647	VALVEPLATE-ID28, PUMP CCW, LDU21C	1
	C020	15-39		11146248	VALVEPLATE-MOTOR, LDU20HB	1
RB	C010	23-04		11311955	VALVEPLATE-ID28, PUMP CW, LDU21C	1
	C020	15-39		11146248	VALVEPLATE-MOTOR, LDU20HB	1

Variable Pump & Fixed Motor

Control Arm (Left)



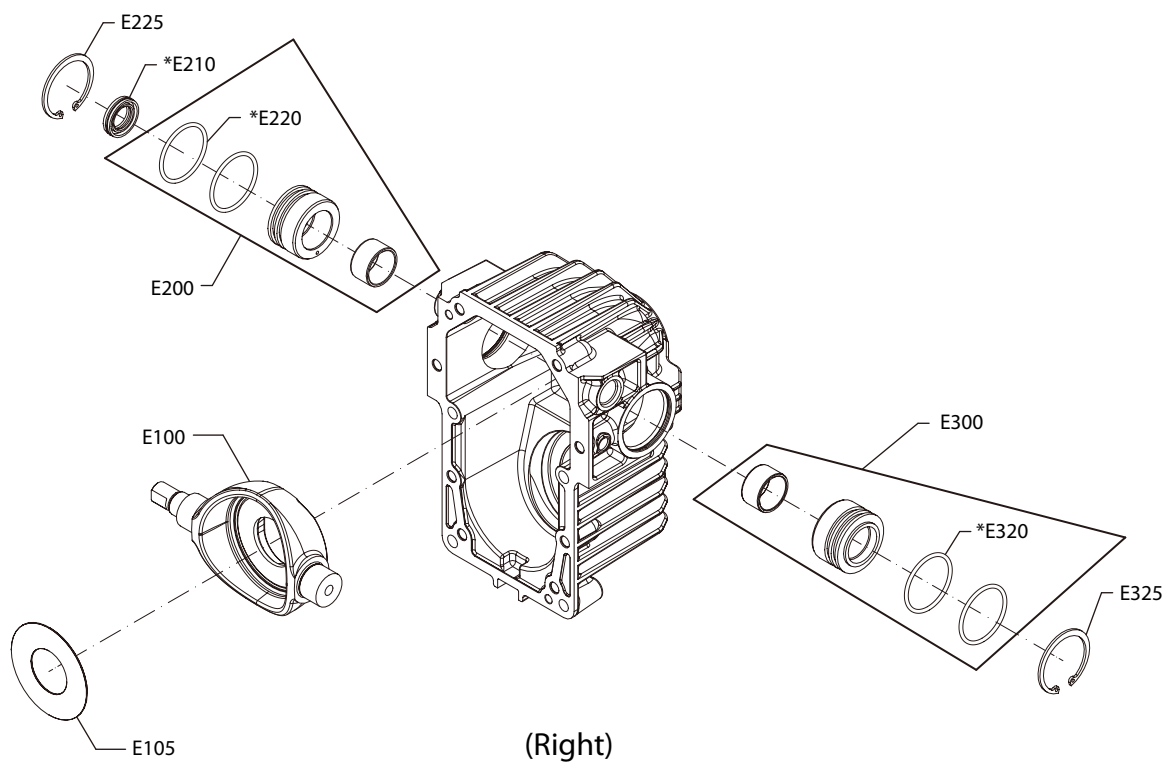
*=Included in overhaul seal kit Q210

Variable Pump & Fixed Motor
Control Arm (Left)

Order Code	Item	Date Begin	Date End	Part Number	Part Name	Qty. per Model/Kit
LF	E100	15-39		11156658	SWASHPLATE 19DEG LDU20HB	1
	E105	08-40		11050101	PLATE-THRUST, LDU20	1
	E200	16-21		11180128	JOURNAL CARRIER(B) ASSY, LDU21C	1
	E220	18-08		KA1B129	O-RING AS568-129 NBR90	2
	E225	18-08		FBE045	RING-RTNG, INT JISB2804 45x1.75	1
	E300	16-21		11180127	JOURNAL CARRIER(A) ASSY, LDU21C	1
	E310	15-39		11148363	SEAL LIP TCVY17x28x6 LDU20HB	1
	E320	18-08		KA1B129	O-RING AS568-129 NBR90	2
	E325	18-08		FBE045	RING-RTNG, INT JISB2804 45x1.75	1
LH	E100	08-01		11329632	SWASHPLATE, 19DEG, W/HOLE, LDU21C	1
	E105	08-40		11050101	PLATE-THRUST, LDU20	1
	E200	16-21		11180128	JOURNAL CARRIER(B) ASSY, LDU21C	1
	E220	18-08		KA1B129	O-RING AS568-129 NBR90	2
	E225	18-08		FBE045	RING-RTNG, INT JISB2804 45x1.75	1
	E300	16-21		11180127	JOURNAL CARRIER(A) ASSY, LDU21C	1
	E310	15-39		11148363	SEAL LIP TCVY17x28x6 LDU20HB	1
	E320	18-08		KA1B129	O-RING AS568-129 NBR90	2
	E325	18-08		FBE045	RING-RTNG, INT JISB2804 45x1.75	1

Variable Pump & Fixed Motor

Control Arm (Right)



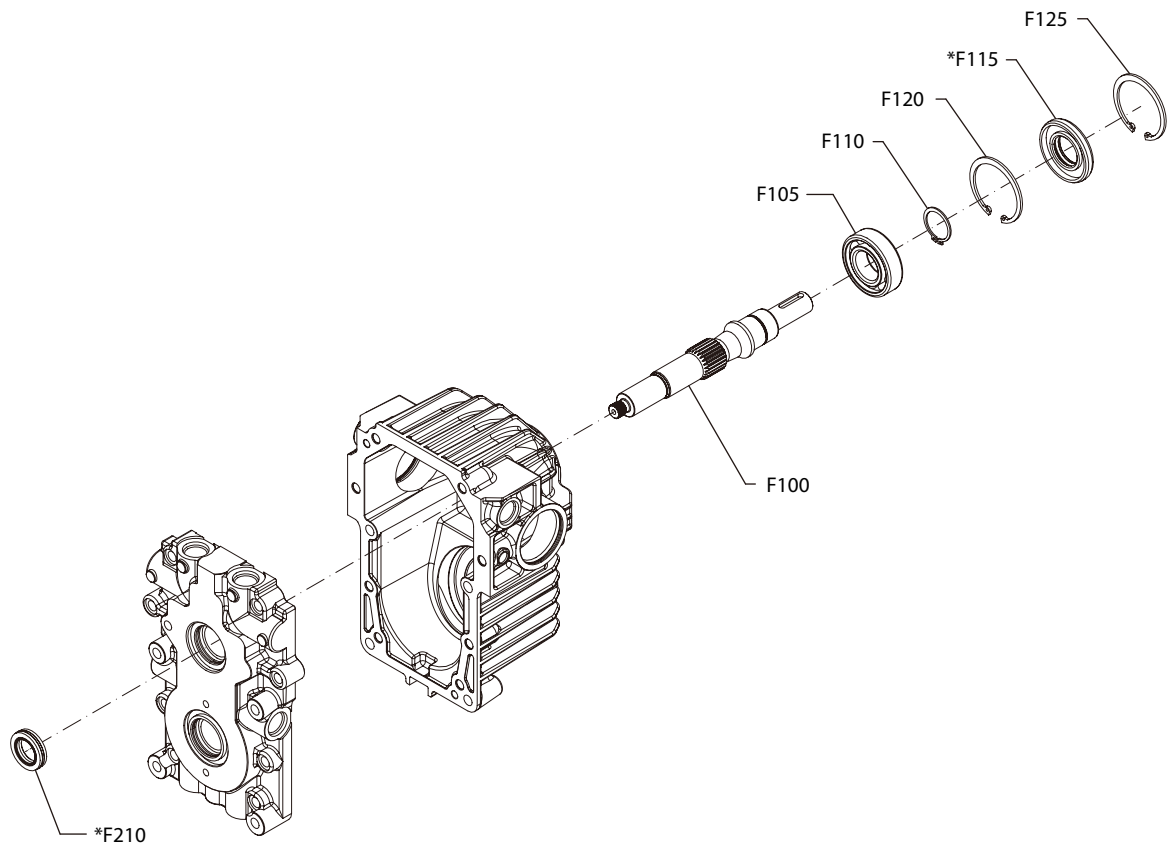
*=Included in overhaul seal kit Q210

Variable Pump & Fixed Motor
Control Arm (Right)

Order Code	Item	Date Begin	Date End	Part Number	Part Name	Qty. per Model/Kit
RF	E100	15-39		11156658	SWASHPLATE 19DEG LDU20HB	1
	E105	08-40		11050101	PLATE-THRUST, LDU20	1
	E200	16-21		11180127	JOURNAL CARRIER(A) ASSY, LDU21C	1
	E210	15-39		11148363	SEAL LIP TCVY17x28x6 LDU20HB	1
	E220	18-08		KA1B129	O-RING AS568-129 NBR90	2
	E225	18-08		FBE045	RING-RTNG, INT JISB2804 45x1.75	1
	E300	16-21		11180128	JOURNAL CARRIER(B) ASSY, LDU21C	1
	E320	18-08		KA1B129	O-RING AS568-129 NBR90	2
	E325	18-08		FBE045	RING-RTNG, INT JISB2804 45x1.75	1
RH	E100	08-01		11329632	SWASHPLATE, 19DEG, W/HOLE, LDU21C	1
	E105	08-07		11050101	PLATE-THRUST, LDU20	1
	E200	16-21		11180127	JOURNAL CARRIER(A) ASSY, LDU21C	1
	E210	08-01		11148363	SEAL LIP TCVY17x28x6 LDU20HB	1
	E220	18-08		KA1B129	O-RING AS568-129 NBR90	2
	E225	18-08		FBE045	RING-RTNG, INT JISB2804 45x1.75	1
	E300	16-21		11180128	JOURNAL CARRIER(B) ASSY, LDU21C	1
	E320	18-08		KA1B129	O-RING AS568-129 NBR90	2
	E325	18-08		FBE045	RING-RTNG, INT JISB2804 45x1.75	1

Variable Pump & Fixed Motor

Pump Shaft



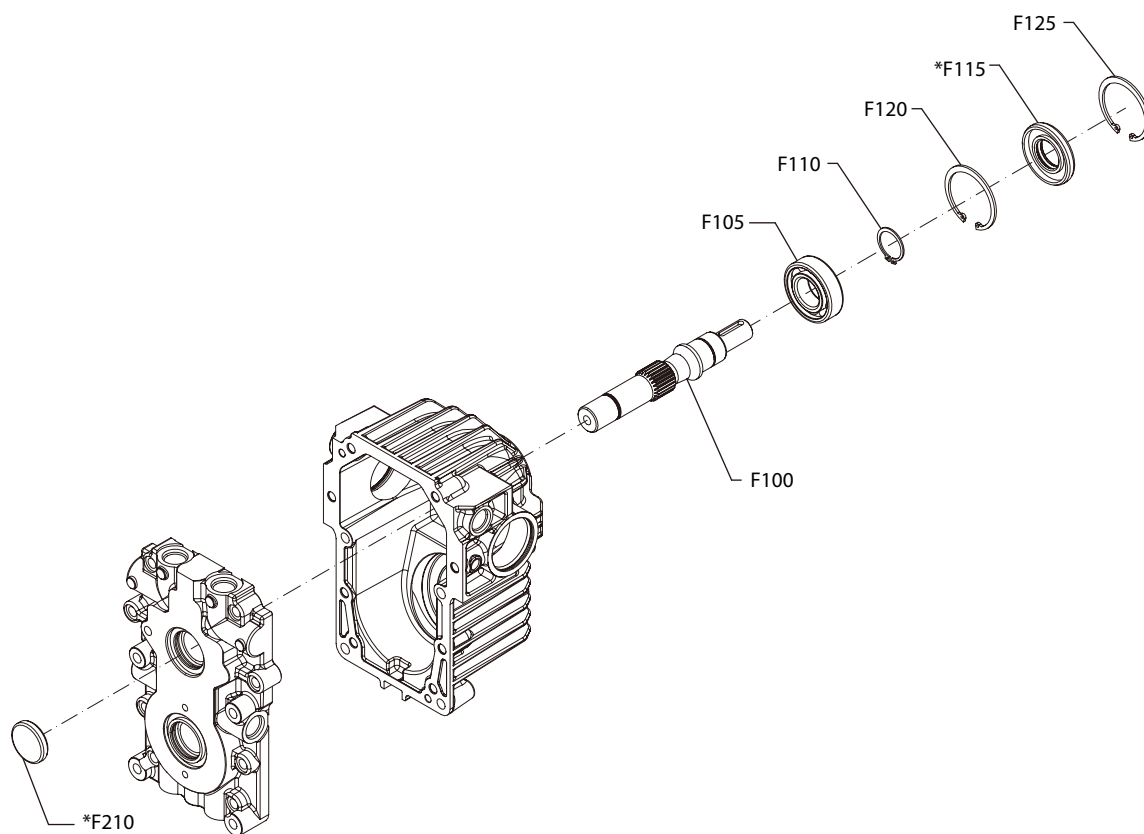
*=Included in overhaul seal kit Q210

(KA)

Variable Pump & Fixed Motor
Pump Shaft

Order Code	Item	Date Begin	Date End	Part Number	Part Name	Qty. per Model/Kit
KA	F100	15-39		11134928	SHAFT KEYED + 22T LDU20HB	1
	F105	08-01		SP0984	BEARING-BALL, TMB205	1
	F110	08-07		FBD025	RING-RTNG, EXT JISB2804 25x1.2	1
	F115	17-17		11191250	SEAL LIP TCVY25x52x8X9.6 VITON LDU21HB	1
	F120	08-07		FBE052	RING-RTNG, INT JISB2804 52x2	1
	F125	08-07		FBE052	RING-RTNG, INT JISB2804 52x2	1
	F210	08-07		SP1919	TCVY20 32 7	1

Variable Pump & Fixed Motor



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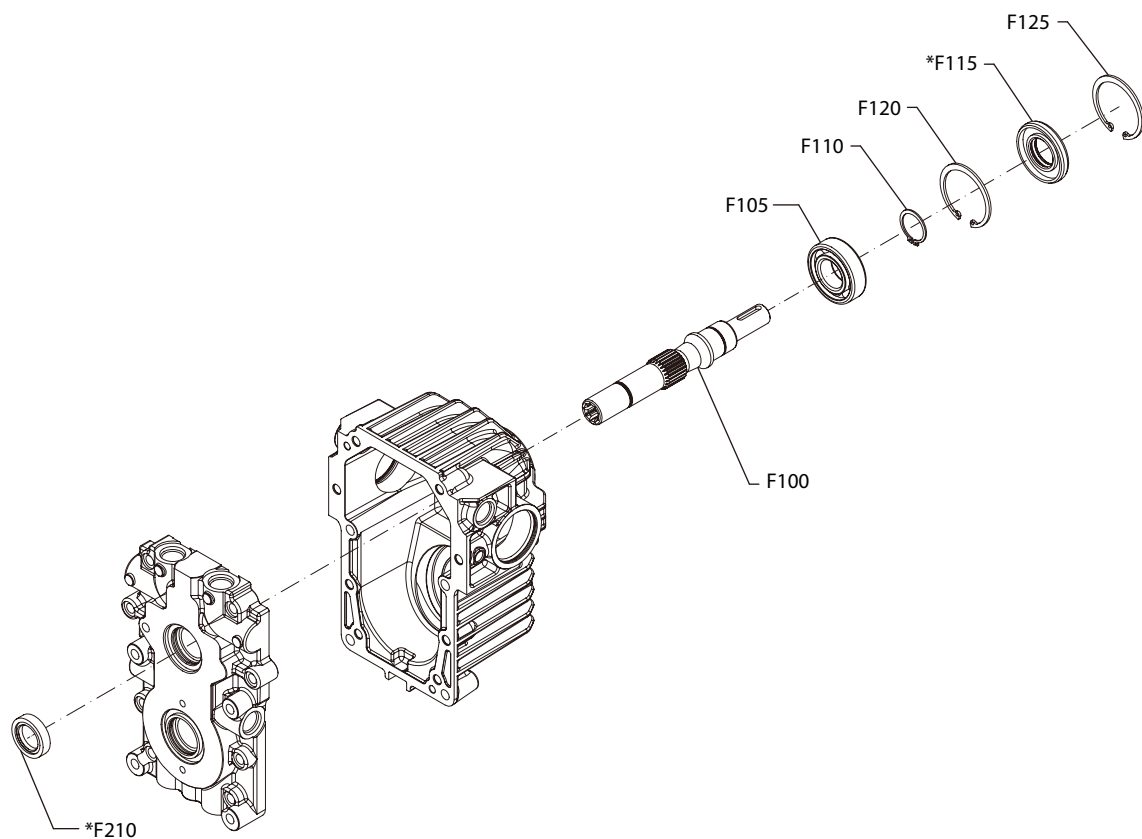
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Variable Pump & Fixed Motor
Pump Shaft

Order Code	Item	Date Begin	Date End	Part Number	Part Name	Qty. per Model/Kit
KB	F100	23-34		11263283	SHAFT-PUMP, KEYED W/O PTO, LDU21C	1
	F105	08-01		SP0984	BEARING-BALL, TMB205	1
	F110	08-07		FBD025	RING-RTNG, EXT JISB2804 25x1.2	1
	F115	17-17		11191250	SEAL LIP TCVY25x52x8X9.6 VITON LDU21HB	1
	F120	08-07		FBE052	RING-RTNG, INT JISB2804 52x2	1
	F125	08-07		FBE052	RING-RTNG, INT JISB2804 52x2	1
	F210	12-52		11125955	BORE-PLUG, RCA35x7, NBR	1

Variable Pump & Fixed Motor



*=Included in overhaul seal kit Q210

(KC)

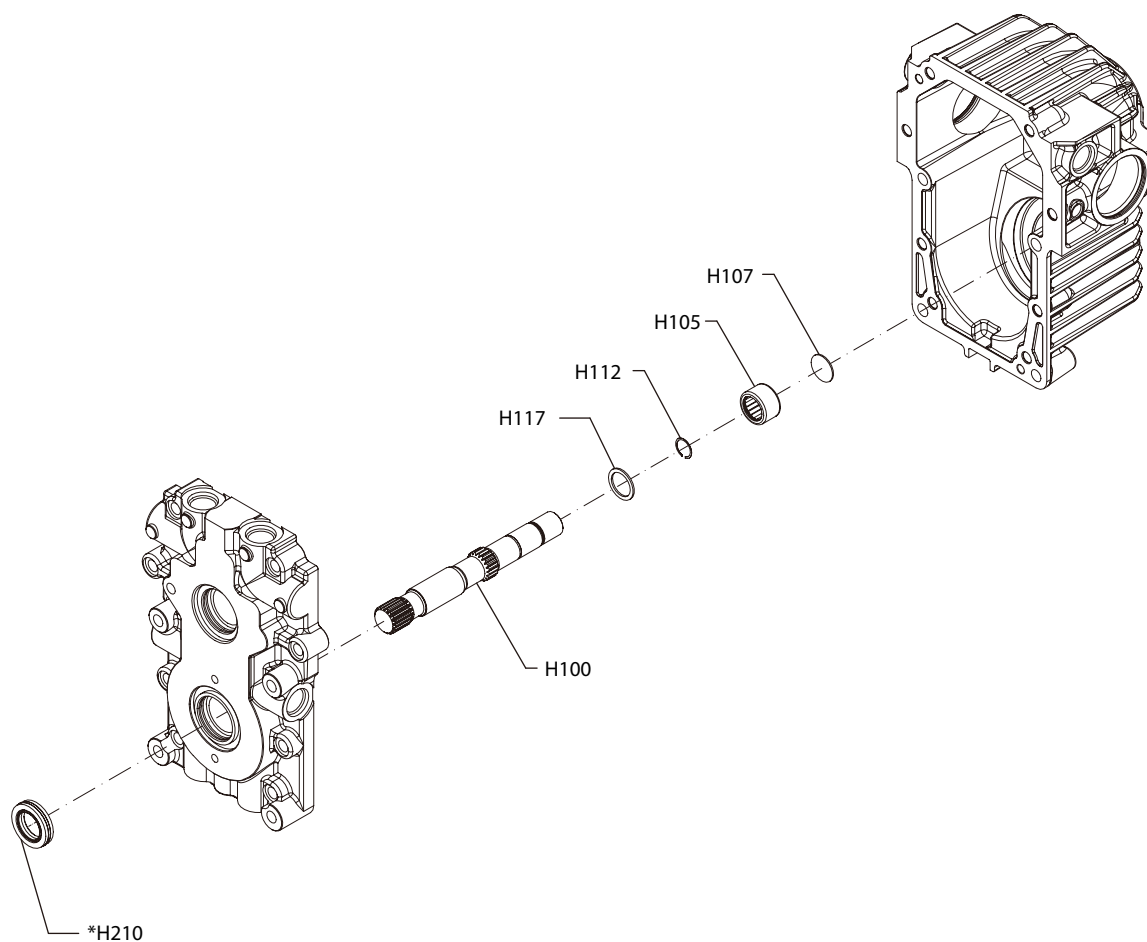
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Variable Pump & Fixed Motor
Pump Shaft

Order Code	Item	Date Begin	Date End	Part Number	Part Name	Qty. per Model/Kit
KC	F100	20-21		11256648	SHAFT-PUMP, KEYED + 9T INT, LDU21C	1
	F105	08-01		SP0984	BEARING-BALL, TMB205	1
	F110	08-07		FBD025	RING-RTNG, EXT JISB2804 25x1.2	1
	F115	17-17		11191250	SEAL LIP TCVY25x52x8X9.6 VITON LDU21HB	1
	F120	08-07		FBE052	RING-RTNG, INT JISB2804 52x2	1
	F125	08-07		FBE052	RING-RTNG, INT JISB2804 52x2	1
	F210	08-40		11050326	SEAL LIP, TCV22x35x8, NBR	1

Variable Pump & Fixed Motor

Motor Shaft



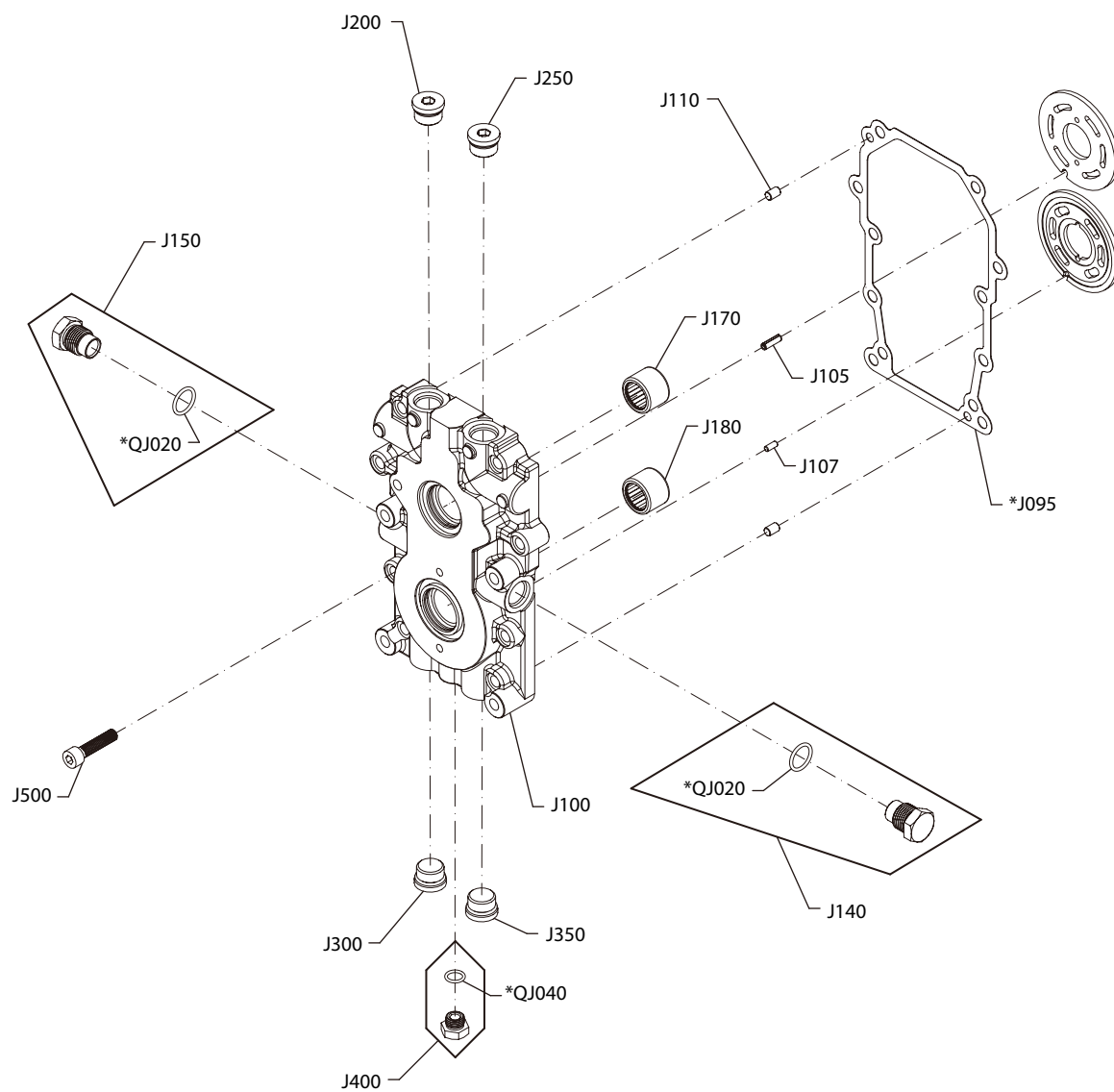
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Variable Pump & Fixed Motor
Motor Shaft

Order Code	Item	Date Begin	Date End	Part Number	Part Name	Qty. per Model/Kit
B	H100	23-31		11263284	SHAFT-MOTOR, JIS18T, LDU21C	1
	H105	08-07		1041332	BEARING-NEEDLE 17X24X15	1
	H107	08-07		1041286	THRUST WASHER	1
	H112	08-07		1041062	RING-RETAINING	1
	H117	08-07		1041284	WASHER(SHAFT)	1
	H210	08-07		SP1919	TCVY20 32 7	1
C	H100	15-39		11147335	SHAFT MOTOR 18T LDU20HB	1
	H105	08-07		1041332	BEARING-NEEDLE 17X24X15	1
	H107	08-07		1041286	THRUST WASHER	1
	H112	08-07		1041062	RING-RETAINING	1
	H117	08-07		1041284	WASHER(SHAFT)	1
	H210	08-07		SP1919	TCVY20 32 7	1

Variable Pump & Fixed Motor

Center Section



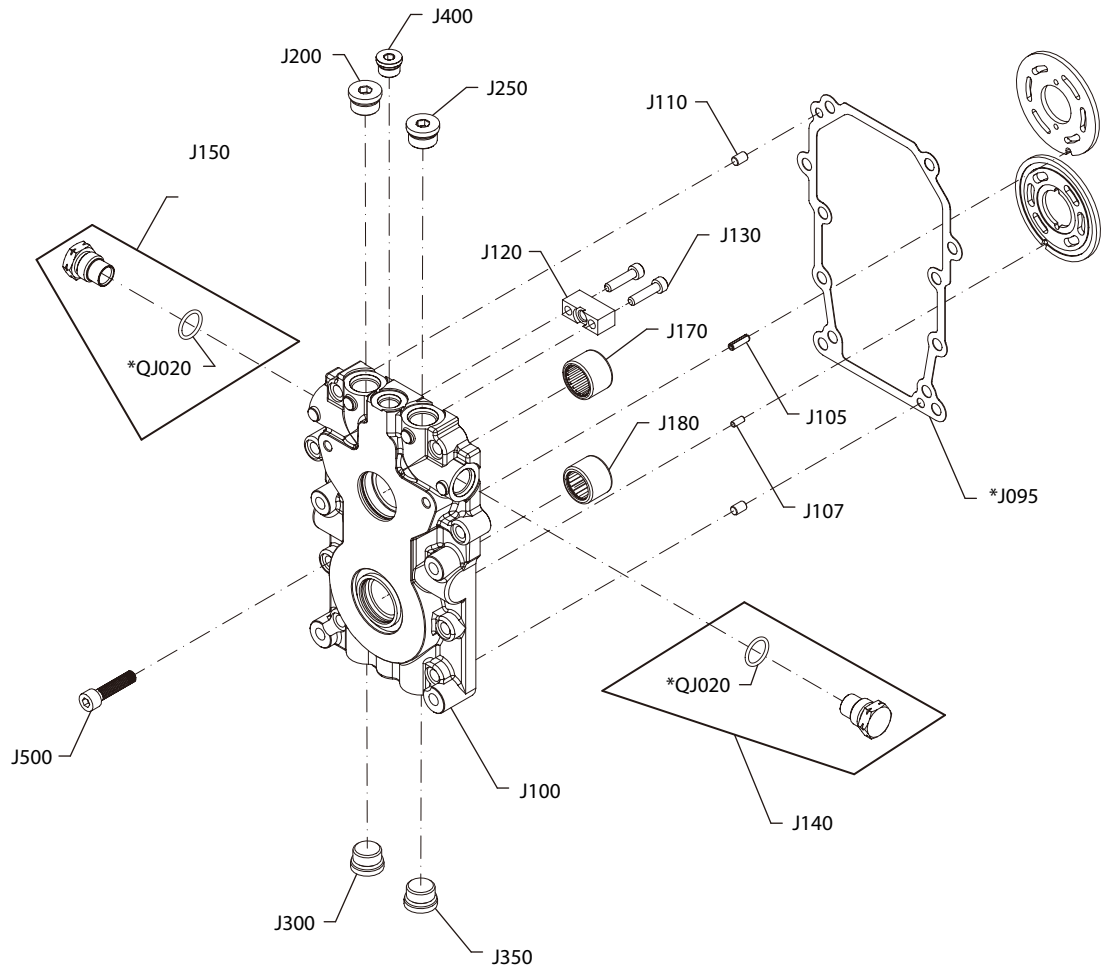
*=Included in overhaul seal kit Q210

(D)

Variable Pump & Fixed Motor
Center Section

Order Code	Item	Date Begin	Date End	Part Number	Part Name	Qty. per Model/Kit
D	J095	15-44		11147437	GASKET AF74 LDU20HB	1
	J100	15-40		11160940	CENTERSECTION LDU20HB	1
	J105	08-07		9004700-1910	PIN-SLTDD SPRG,ANSIB18.8.2 0.1875x0.625	1
	J107	08-07		9004800-1506	PIN-STRAIGHT, ASMEB1882 0.1565x0.375	1
	J110	08-07		9004800-2506	PIN-STRAIGHT, ASMEB1882 0.1565x0.375	2
	J140	08-07		1742584-SA	PLUG ASSY	1
	J150	08-07		1742584-SA	PLUG ASSY	1
	J170	08-07		SP1412	BEARING-NEEDLE 20X27X20	1
	J180	08-07		SP1412	BEARING-NEEDLE 20X27X20	1
	J200	08-07		J9005110-7500	PLUG ASSY-SOC HD, UNF-3/4-16	1
	J250	08-07		J9005110-7500	PLUG ASSY-SOC HD, UNF-3/4-16	1
	J300	08-07		J9005110-7500	PLUG ASSY-SOC HD, UNF-3/4-16	1
	J350	08-07		J9005110-7500	PLUG ASSY-SOC HD, UNF-3/4-16	1
	J400	08-07		1030155-SA	PLUG ASSY	1
	J500	08-07		AAM0803501	SCREW-SOC HD,M8X35 JISB1176	8
	QJ020	08-07		9004201-5000	O-RING, HMS151 0.644x0.087 N-NBR90	2
	QJ040	08-07		9004201-3100	O-RING, HMS151 0.414x0.072 N-NBR90	1

Variable Pump & Fixed Motor



*=Included in overhaul seal kit Q210

(T)

Variable Pump & Fixed Motor
Center Section

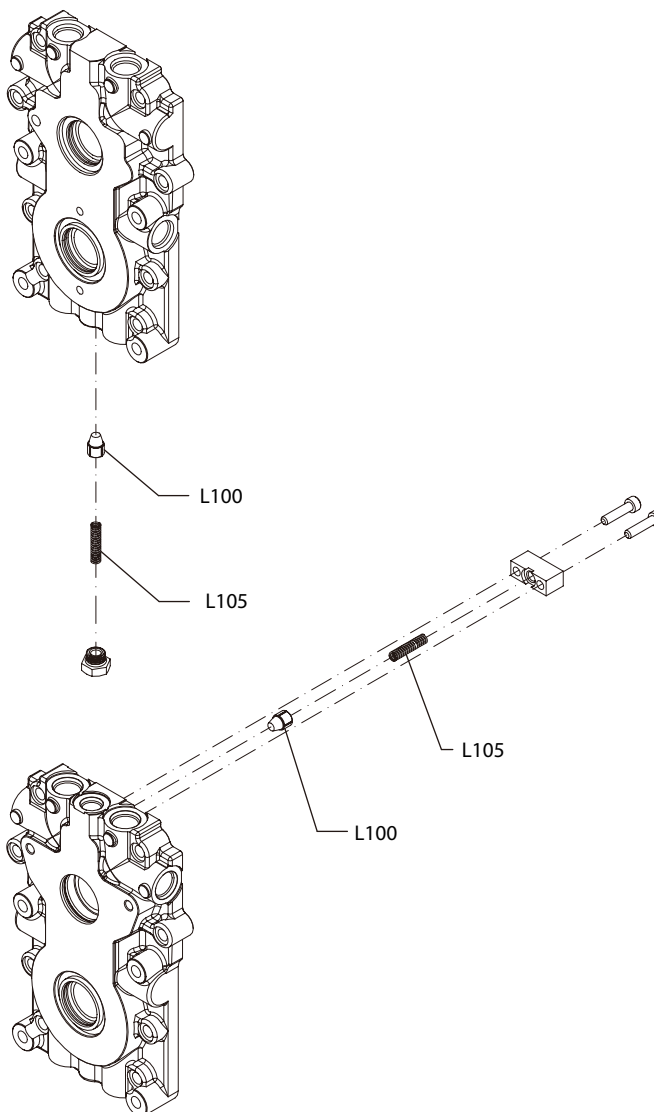
Order Code	Item	Date Begin	Date End	Part Number	Part Name	Qty. per Model/Kit
T	J095	15-44		11147437	GASKET AF74 LDU20HB	1
	J100	20-22		11256650	CENTERSECTION MACHINING, LDU21C	1
	J105	08-07		9004700-1910	PIN-SLTTD SPRG,ANSIB18.8.2 0.1875x0.625	1
	J107	08-07		9004800-1506	PIN-STRAIGHT, ASMEB1882 0.1565x0.375	1
	J110	08-07		9004800-2506	PIN-STRAIGHT, ASMEB1882 0.1565x0.375	2
	J120	08-40		11050246	GUIDE SPRING, LDU20	1
	J130	08-07		AAM0602501	SCREW-SOC HD,M6X25 JISB1176	2
	J140	20-36		11264892	PLUG ASSY-HEX, 0.75-16 NBR90	1
	J150	20-36		11264892	PLUG ASSY-HEX, 0.75-16 NBR90	1
	J170	17-01		11050329	NEEDLE BEARING, HK2220C	1
	J180	08-07		SP1412	BEARING-NEEDLE 20X27X20	1
	J200	08-07		J9005110-7500	PLUG ASSY-SOC HD, UNF-3/4-16	1
	J250	08-07		J9005110-7500	PLUG ASSY-SOC HD, UNF-3/4-16	1
	J300	08-07		J9005110-7500	PLUG ASSY-SOC HD, UNF-3/4-16	1
	J350	08-07		J9005110-7500	PLUG ASSY-SOC HD, UNF-3/4-16	1
	J400	08-01		J9005110-5600	PLUG ASSY-SOC HD, UNF-9/16-18	1
	J500	08-07		AAM0803501	SCREW-SOC HD,M8X35 JISB1176	8
	QJ020	08-07		9004201-5000	O-RING, HMS151 0.644x0.087 N-NBR90	2

Variable Pump & Fixed Motor

Charge Pressure Relief Valve

(J000D)

(J000T)



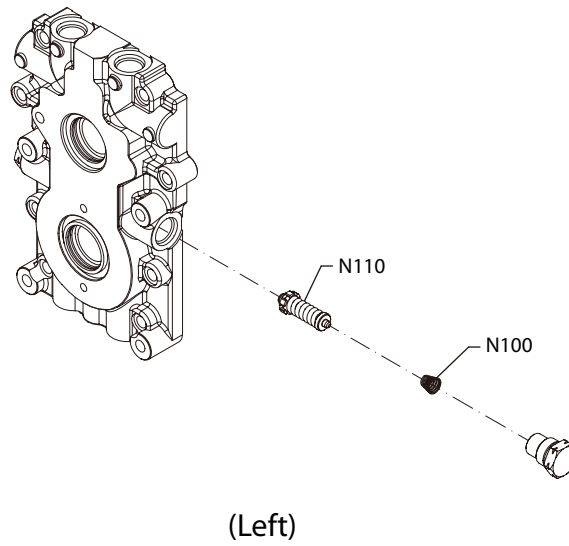
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Variable Pump & Fixed Motor*Charge Pressure Relief Valve*

Order Code	Item	Date Begin	Date End	Part Number	Part Name	Qty. per Model/Kit
07	L100	08-01		1040213	CONE RELIEF VALVE	1
	L105	08-40		11050368	SPRING, CHARGE-RELIEF, LDU20	1

Variable Pump & Fixed Motor

High Pressure Relief Valve (Left)

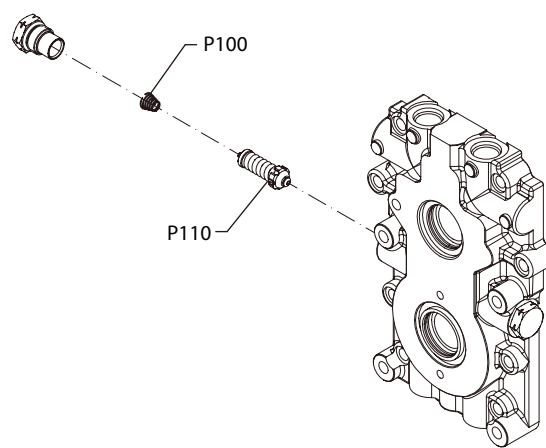


Variable Pump & Fixed Motor
High Pressure Relief Valve (Left)

Order Code	Item	Date Begin	Date End	Part Number	Part Name	Qty. per Model/Kit
14N	N100	08-07		1041146	SPRING	1
	N110	08-07		1030772-2000	HP-RELIEF VALVE 140K	1
14A	N100	08-07		1041146	SPRING	1
	N110	08-07		1030772-200B	HP-RELIEF VALVE 140K W/0.85 ORIFICE	1
17N	N100	08-07		1041146	SPRING	1
	N110	08-01		1030772-2500	HP-RELIEF VALVE 175K	1
17A	N100	08-07		1041146	SPRING	1
	N110	09-01		11059306	HP-RELIEF VALVE 175K W/0.85 ORIFICE	1
21N	N100	08-07		1041146	SPRING	1
	N110	08-01		1030772-3000	HIGH-PRESSURE-RELIEF- VALVE 210BAR-ASSY	1
23N	N100	08-07		1041146	SPRING	1
	N110	08-07		1030772-3000	HP-RELIEF VALVE 230K	1
23A	N100	08-07		1041146	SPRING	1
	N110	08-07		1030772-310B	HP-RELIEF VALVE 220K W/0.85 ORIFICE	1
25N	N100	08-07		1041146	SPRING	1
	N110	08-01		1030772-3600	HP-RELIEF VALVE 255K	1
25A	N100	08-07		1041146	SPRING	1
	N110	24-42		11338997	HP-RELIEF VALVE 255K W/0.85 ORIFICE	1
25B	N100	08-07		1041146	SPRING	1
	N110	16-01		11173125	HP-RELIEF VALVE 255K W/0.7 TWIN ORIFICE	1

Variable Pump & Fixed Motor

High Pressure Relief Valve (Right)



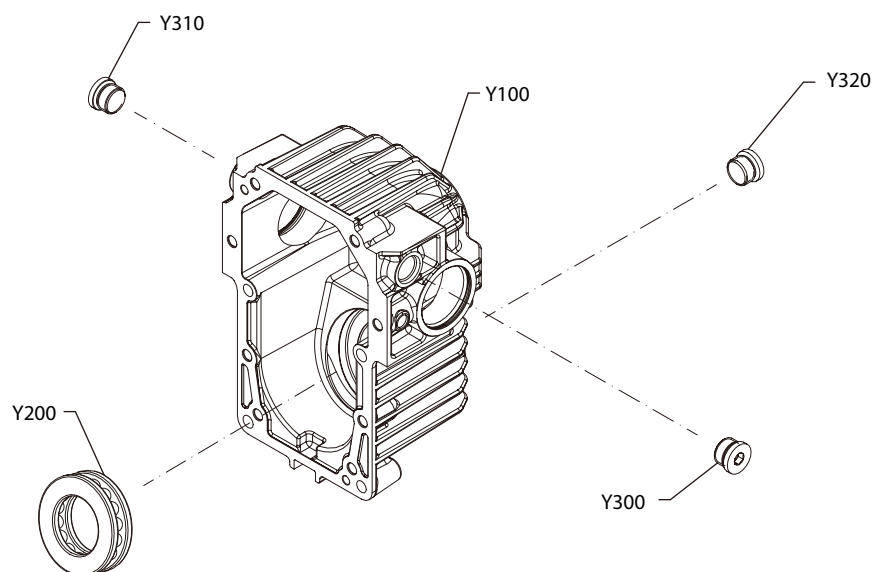
(Right)

Variable Pump & Fixed Motor
High Pressure Relief Valve (Right)

Order Code	Item	Date Begin	Date End	Part Number	Part Name	Qty. per Model/Kit
14N	P100	08-07		1041146	SPRING	1
	P110	08-07		1030772-2000	HP-RELIEF VALVE 140K	1
14A	P100	08-07		1041146	SPRING	1
	P110	08-07		1030772-200B	HP-RELIEF VALVE 140K W/0.85 ORIFICE	1
17N	P100	08-07		1041146	SPRING	1
	P110	08-01		1030772-2500	HP-RELIEF VALVE 175K	1
17A	P100	08-07		1041146	SPRING	1
	P110	09-01		11059306	HP-RELIEF VALVE 175K W/0.85 ORIFICE	1
21N	P100	08-07		1041146	SPRING	1
	P110	08-01		1030772-3000	HIGH-PRESSURE-RELIEF- VALVE 210BAR-ASSY	1
23N	P100	08-07		1041146	SPRING	1
	P110	08-07		1030772-3000	HP-RELIEF VALVE 230K	1
23A	P100	08-07		1041146	SPRING	1
	P110	08-07		1030772-310B	HP-RELIEF VALVE 220K W/0.85 ORIFICE	1
25N	P100	08-07		1041146	SPRING	1
	P110	08-01		1030772-3600	HP-RELIEF VALVE 255K	1
25A	P100	08-07		1041146	SPRING	1
	P110	24-42		11338997	HP-RELIEF VALVE 255K W/0.85 ORIFICE	1
25B	P100	08-07		1041146	SPRING	1
	P110	16-01		11173125	HP-RELIEF VALVE 255K W/0.7 TWIN ORIFICE	1

Variable Pump & Fixed Motor

Special Hardware



Variable Pump & Fixed Motor
Special Hardware

Order Code	Item	Date Begin	Date End	Part Number	Part Name	Qty. per Model/Kit
NNN	Y100	15-39		11152246	HOUSING LDU21HB	1
	Y200	08-01		SP0670	BEARING-THRUST BALL 51208	1
	Y300	08-07		J9005110-7500	PLUG ASSY-SOC HD, UNF-3/4-16	1
	Y310	08-07		J9005110-7500	PLUG ASSY-SOC HD, UNF-3/4-16	1
	Y320	08-07		J9005110-7500	PLUG ASSY-SOC HD, UNF-3/4-16	1

Overhaul Seal Kit

	Q210	24-51		11344654	OVERHAUL SEAL KIT LDU21C	1
	E210 / E310	15-39		11148363	SEAL LIP TCVY17x28x6 LDU20HB	1
	E220	18-08		KA1B129	O-RING AS568-129 NBR90	2
	E320	18-08		KA1B129	O-RING AS568-129 NBR90	2
	F115	17-17		11191250	SEAL LIP TCVY25x52x8X9.6 VITON LDU21HB	1
	F210	08-07		SP1919	TCVY20 32 7	1
	F210	12-52		11125955	BORE-PLUG, RCA35x7, NBR	1
	F210	08-40		11050326	SEAL LIP, TCV22x35x8, NBR	1
	H210	08-07		SP1919	TCVY20 32 7	1
	J095	15-44		11147437	GASKET AF74 LDU20HB	1
	QJ020	08-07		9004201-5000	O-RING, HMS151 0.644x0.087 N-NBR90	2
	QJ040	08-07		9004201-3100	O-RING, HMS151 0.414x0.072 N-NBR90	1

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