SPARE PARTS MANUAL

FOR

BUKH MARINE DIESEL

LIFEBOAT ENGINE

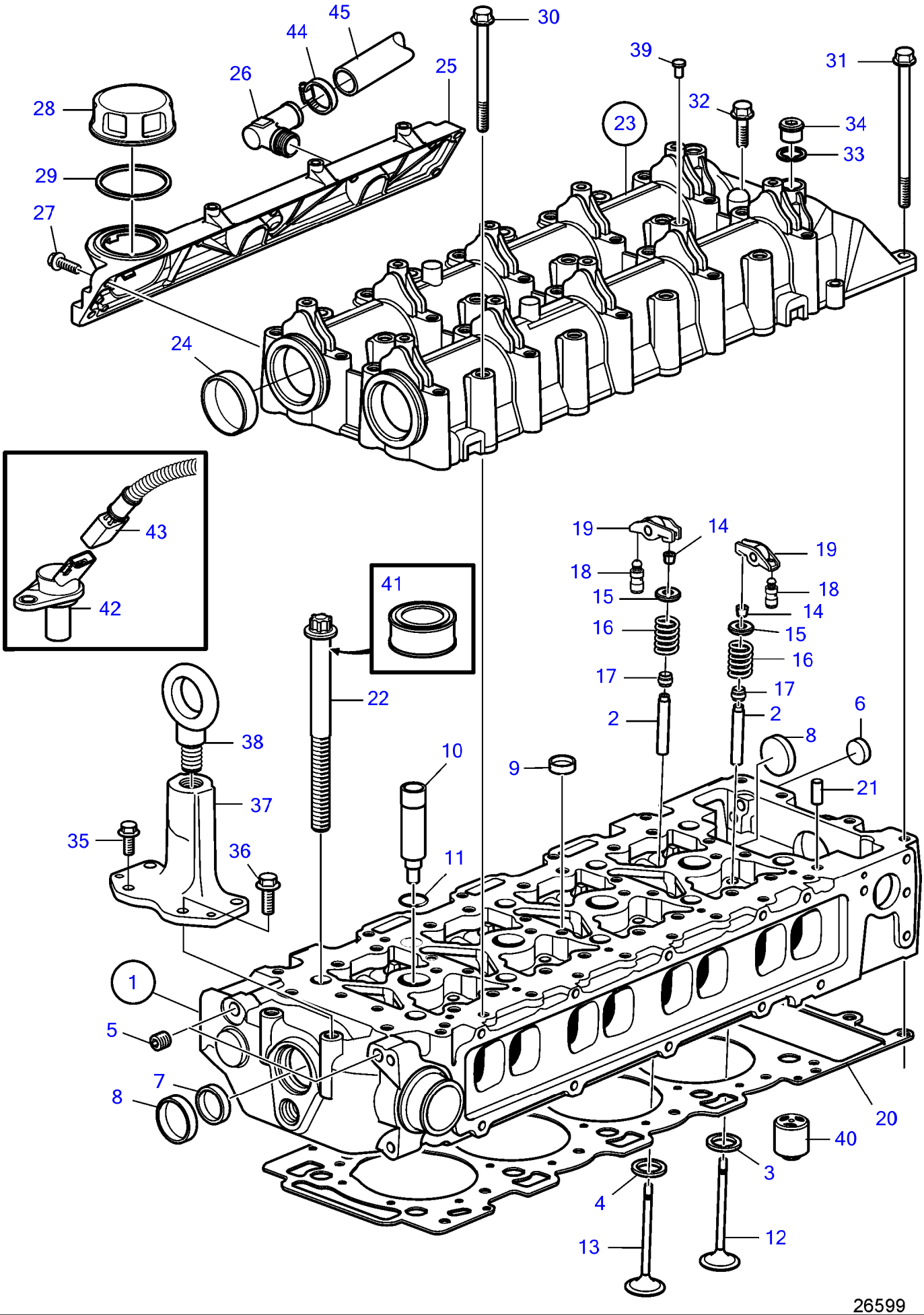
TYPE D4



powering marine safety

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D4-180I-F, D4-225A-F, D4-225I-F, D4-260A-F, D4-260D-F, D4-260I-F

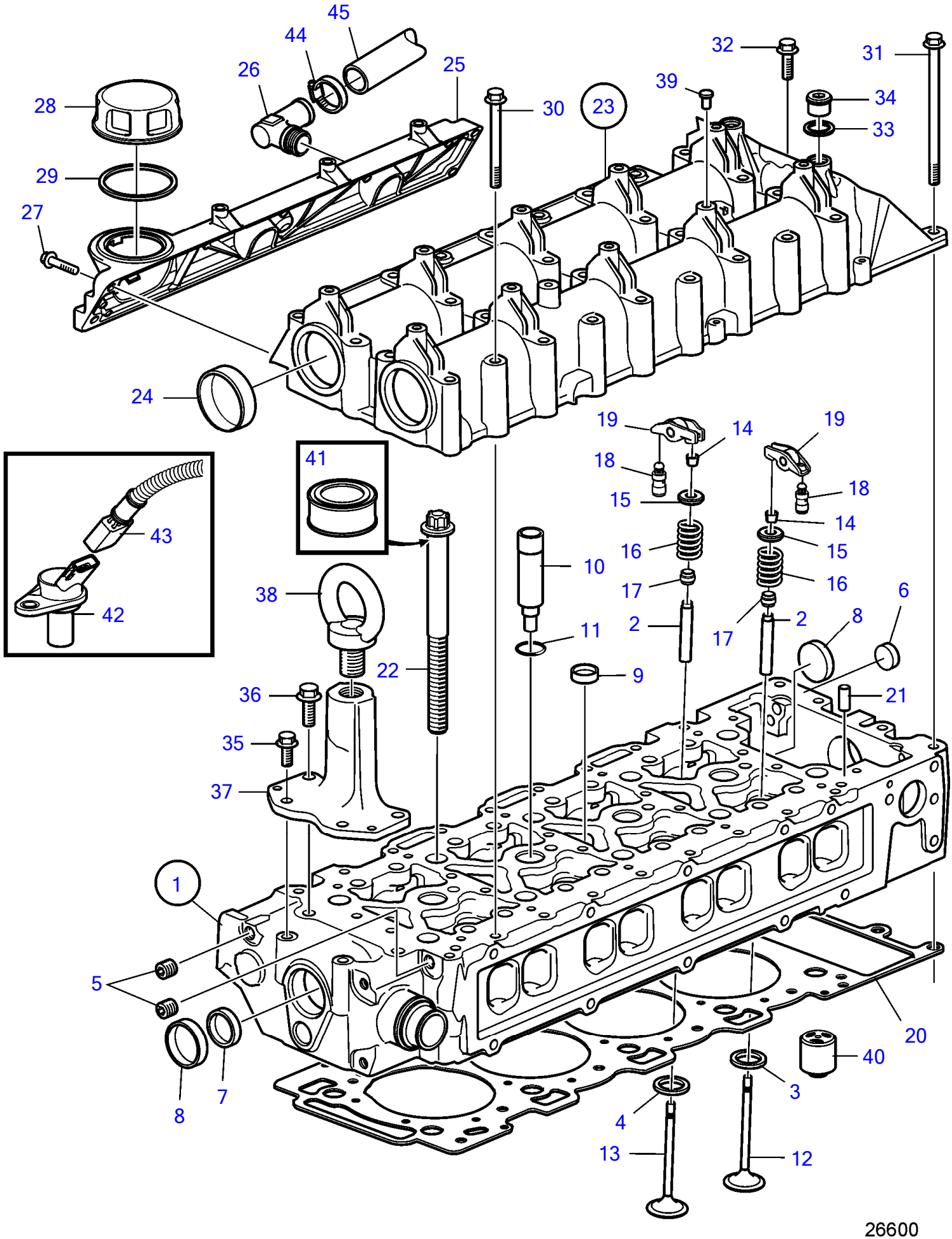


26599

D4-180I-F, D4-225A-F, D4-225I-F, D4-260A-F, D4-260D-F, D4-260I-F

REF	PART NO.	QTY	DESCRIPTION	SEE SEC.	NOTES
1	3801255	1	Cylinder head		Replaced by 3801693
	3801693	1	Cylinder head		
	22814376	1	Cylinder head		
2	3580892	16	· Valve guide		
3	3581861	8	· Valve seat, intake		
4	3581862	8	· Valve seat, exhaust		
5	990828	4	· Plug		
6	3588502	2	· Expansion plug		
7	24426721	2	· Expansion plug		
8	8131707	2	· Cap plug		
9	3583579	7	· Expansion plug		
10	889970	4	· Sleeve		
11	3583753	4	· O-ring		
12	3884010	8	· Inlet valve		
13	3884015	8	· Exhaust valve		
14	861703	32	· Valve cotter		
15	3581890	16	· Valve spring washer		
16	3581889	16	· Valve spring		
17	861700	16	· Valve seal		
			· Installation Instruction 7738839	7738839-EN	Changing of valve stem seal
18	3581894	16	Rocker arm		
19	3581893	16	Cam		
20	21165389	1	Gasket		
21	950564	2	Pin		
22	21384459	10	Six point screw		
23	21454061	1	Valve cover		
24	8130035	2	· Expansion plug		
25		1	· Cover		
26	3583959	2	· · Elbow nipple		
27	948356	5	· Flange screw		
28	1275403	1	Oil filler cap		
29	1275379	1	Gasket		
30	965182	28	Flange screw		
31	968999	3	Flange screw		
32	945444	1	Flange screw		
33	947622	2	Gasket		
34	966143	2	Plug		
35	946329	2	Flange screw		
36	946173	2	Flange screw		
37	3888143	1	Lifting bracket		
38	984458	1	Lifting eye		
39	3584061	10	Washer		
40	3582933	2	Valve		
41	3588347	X	Lubricant		25G
42	21426987	1	Speed sensor		
43	21138239	1	Wiring harness		
44	994559	1	Hose clamp	37288	
45	21882796	1	Hose		L=265mm

D4-300A-F, D4-300D-F, D4-300I-F

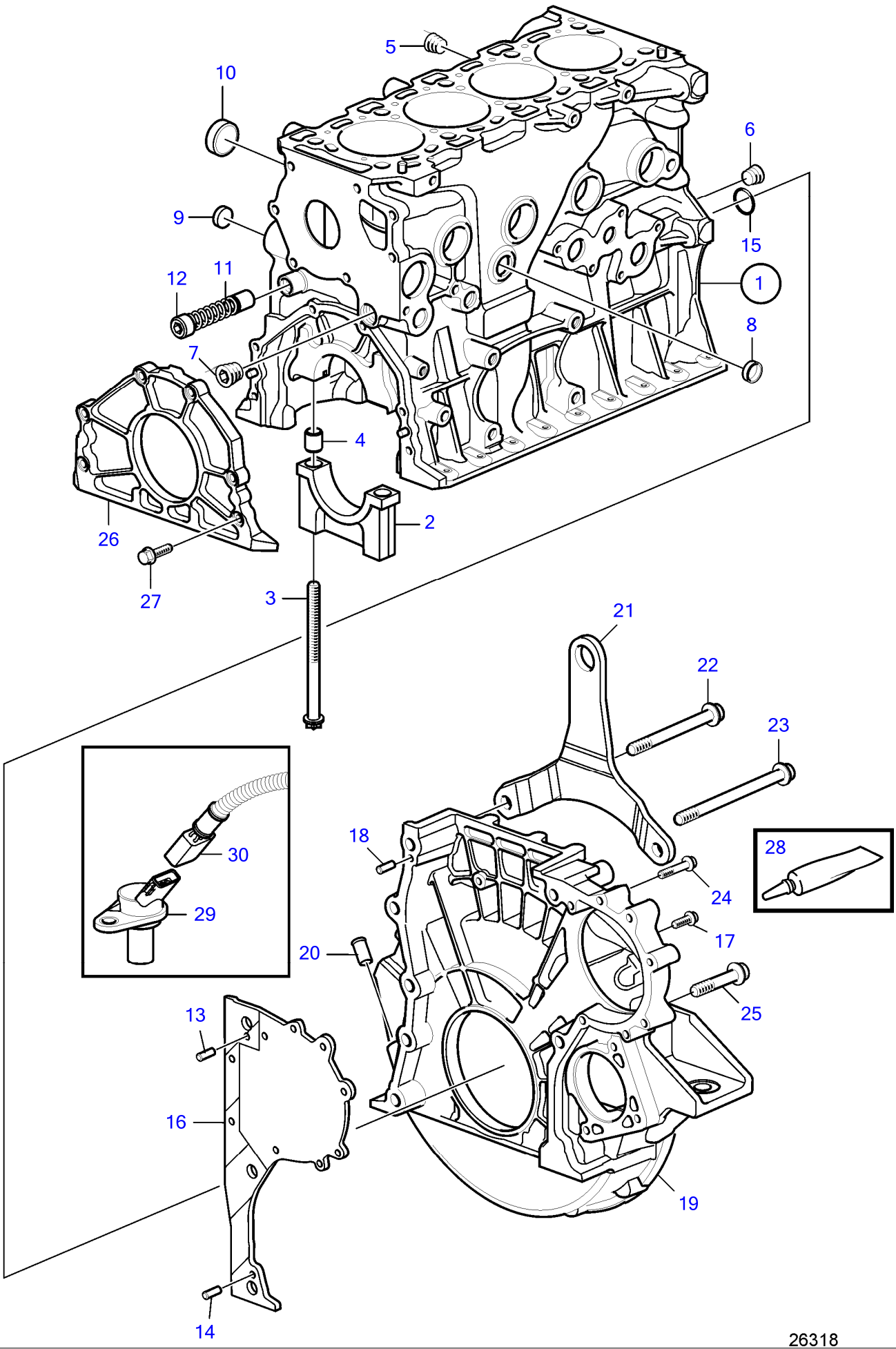


26600

D4-300A-F, D4-300D-F, D4-300I-F

REF	PART NO.	QTY	DESCRIPTION	SEE SEC.	NOTES
1	3801257	1	Cylinder head		Replaced by 3801694
	3801694	1	Cylinder head		
	22814377	1	Cylinder head		
2	3580892	16	· Valve guide		
3	3581861	8	· Valve seat, intake		
4	3581862	8	· Valve seat, exhaust		
5	990828	4	· Plug		
6	3588502	2	· Expansion plug		
7	24426721	2	· Expansion plug		
8	8131707	2	· Cap plug		
9	3583579	7	· Expansion plug		
10	889970	4	· Sleeve		
11	3583753	4	· O-ring		
12	3884010	8	· Inlet valve		
13	3884015	8	· Exhaust valve		
14	861703	32	· Valve cotter		
15	3581890	16	· Valve spring washer		
16	3581889	16	· Valve spring		
17	861700	16	· Valve seal		
			· Installation Instruction 7738839	7738839-EN	Changing of valve stem seal
18	3581894	16	Rocker arm		
19	3581893	16	Cam		
20	21165389	1	Gasket		
21	950564	2	Pin		
22	21384459	10	Six point screw		
23	21454061	1	Valve cover		
24	8130035	2	· Expansion plug		
25		1	· Cover		
26	3583959	2	· · Elbow nipple		
27	948356	5	· Flange screw		
28	1275403	1	Oil filler cap		
29	1275379	1	Gasket		
30	965182	28	Flange screw		
31	968999	3	Flange screw		
32	945444	1	Flange screw		
33	947622	2	Gasket		
34	966143	2	Plug		
35	946329	2	Flange screw		
36	946173	2	Flange screw		
37	3888143	1	Lifting bracket		
38	984458	1	Lifting eye		
39	3584061	10	Washer		
40	3582933	2	Valve		
41	3588347	X	Lubricant		25G
42	21426987	1	Speed sensor		
43	21138239	1	Wiring harness		
44	994559	1	Hose clamp	37288	
45	21882796	1	Hose		L=265mm

D4-180I-F, D4-225A-F, D4-225I-F, D4-260A-F, D4-260D-F, D4-260I-F, D4-300A-F, D4-300D-F, D4-300I-F

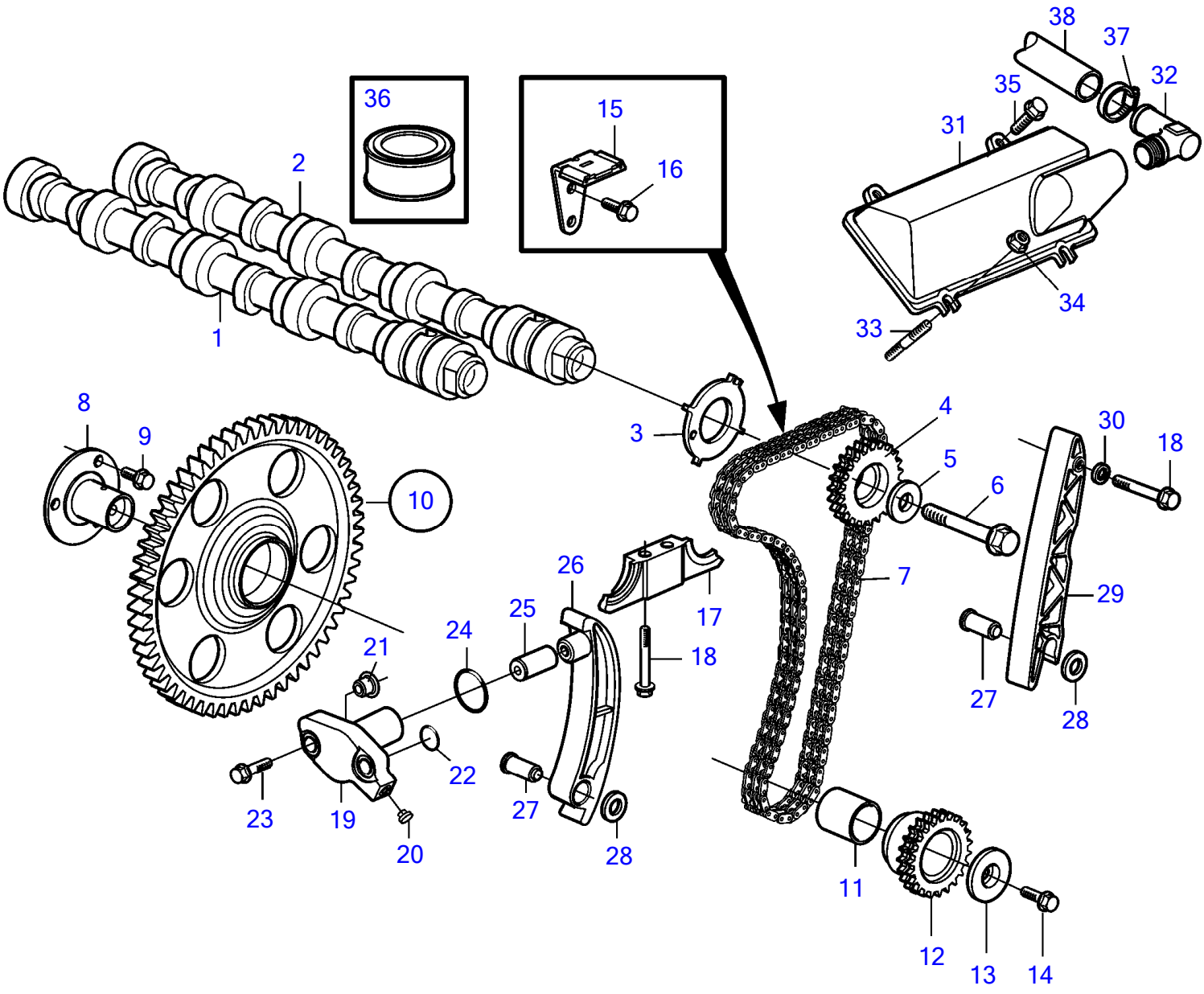


26318

D4-180I-F, D4-225A-F, D4-225I-F, D4-260A-F, D4-260D-F, D4-260I-F, D4-300A-F, D4-300D-F, D4-300I-F

REF	PART NO.	QTY	DESCRIPTION	NOTES
1		1	Cylinder block	
2		5	· Main bearing cap	
3	21384457	10	· Flange screw	
4	3584214	10	· Guide sleeve	
5	968061	1	· Plug	
6	968063	2	· Plug	
7	979947	2	· Plug	
8	3583447	1	· Expansion plug	
9	24426721	4	· Expansion plug	
10	24426722	9	· Expansion plug	
11	3583079	1	· Piston cooling valve	
12	982121	1	· Plug	
13	950562	1	Pin	
14	950566	1	Pin	
15	3843507	1	O-ring	
16	3582847	1	Plate	
17	946173	2	Flange screw	
18	950564	5	Pin	
19	40005732	1	Flywheel housing	Replaced by 22635095
	22635095	1	Flywheel housing	
20	3583622	1	Hose connection	
21		1	Lifting eye	
22	984867	1	Flange screw	
23	966368	2	Flange screw	
24	994441	3	Flange screw	
25	984859	5	Flange screw	
26	3582750	1	Cardboard tube	
27	946671	6	Flange screw	
28	1161771	X	Sealing compound	
29	21426987	1	· Speed sensor	
30	21138237	1	· Wiring harness	

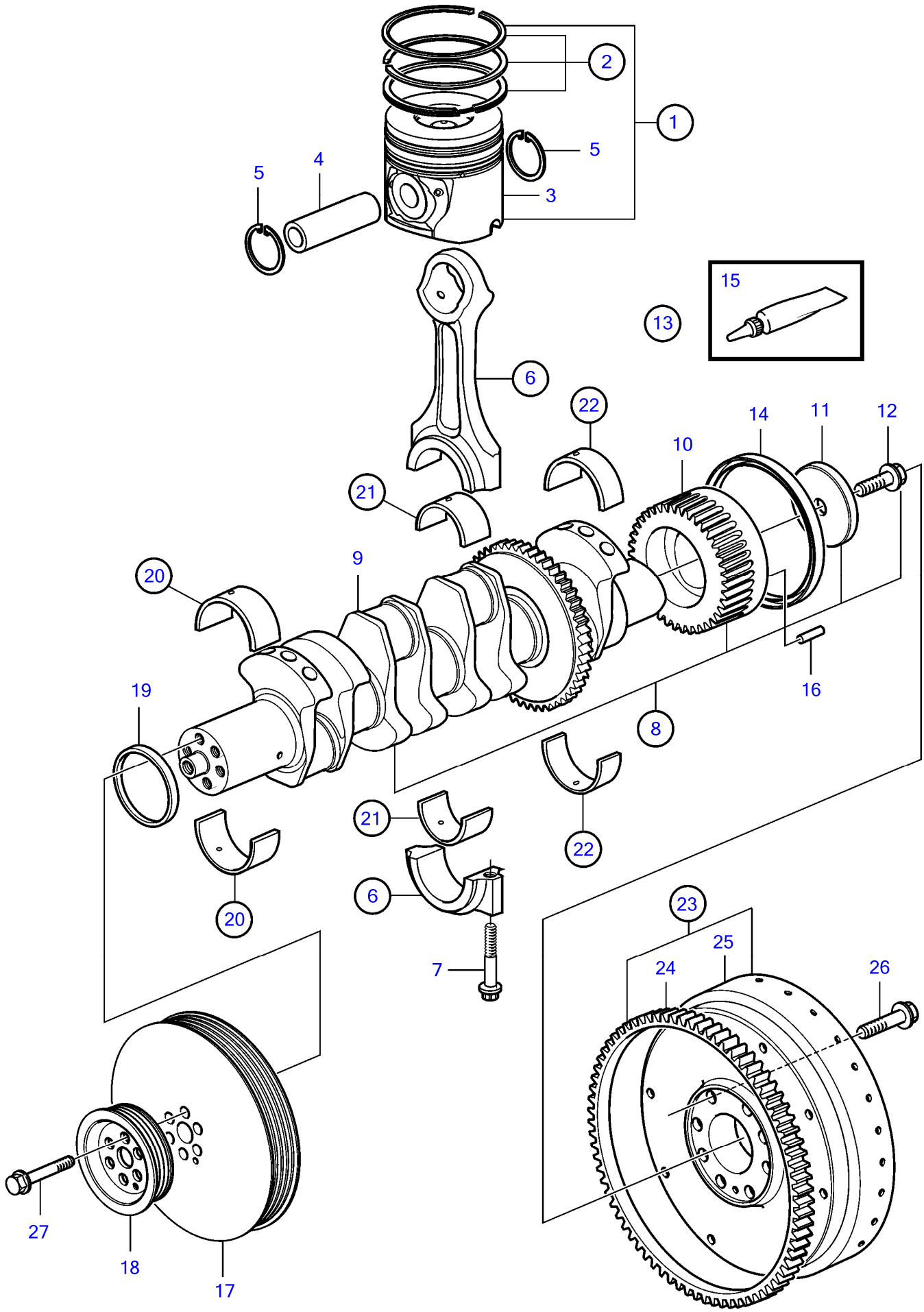
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D4-180I-F, D4-225A-F, D4-225I-F, D4-260A-F, D4-260D-F, D4-260I-F, D4-300A-F, D4-300D-F, D4-300I-F

REF	PART NO.	QTY	DESCRIPTION	NOTES
1	3587752	1	Camshaft, intake	
2	3587753	1	Camshaft, exhaust	Replaced by 21600901
	21600901	1	Camshaft	Replaced by 22580193
	22580193	1	Camshaft	
3	3582855	1	Gear	Replaced by 22646693
	22646693	1	Gear	
4	3582646	2	Sprocket	
5	3583032	2	Washer	Replaced by 22645509
	22645509	2	Washer	
6	984307	2	Flange screw	
7	3582642	1	Drive chain	
8	21165762	1	Hub	
9	946173	3	Flange screw	
10	21641665	1	Idler gear	
11		1	· Bushing	
12		1	· Sprocket	
13	3582652	1	Washer	
14	945444	1	Flange screw	
15	3583576	1	Guide	
16	946173	2	Flange screw	
17	3587634	1	Bracket	
18	994441	3	Flange screw	
19	3583144	1	Retainer	
20	990828	1	· Plug	
21	21113522	1	Gasket	
22	976039	1	O-ring	
23	946671	2	Flange screw	
24	975309	1	O-ring	
25	3582643	1	Tensioner	
26	3582644	1	Guide	
27	3583208	2	Shoulder screw	
28	3587354	2	Washer	
29	3583874	1	Guide	
30	964106	1	Gasket	
31	3583686	1	Cover	
32	3583959	1	· Elbow nipple	
33	953041	2	Stud	
34	945408	2	Flange nut	
35	946173	2	Flange screw	
36	3588346	X	Lubricant	500G
37	994559	1	Hose clamp	
38	190993	1	Hose	L=265mm

D4-180I-F, D4-225A-F, D4-225I-F, D4-260A-F, D4-260D-F, D4-260I-F

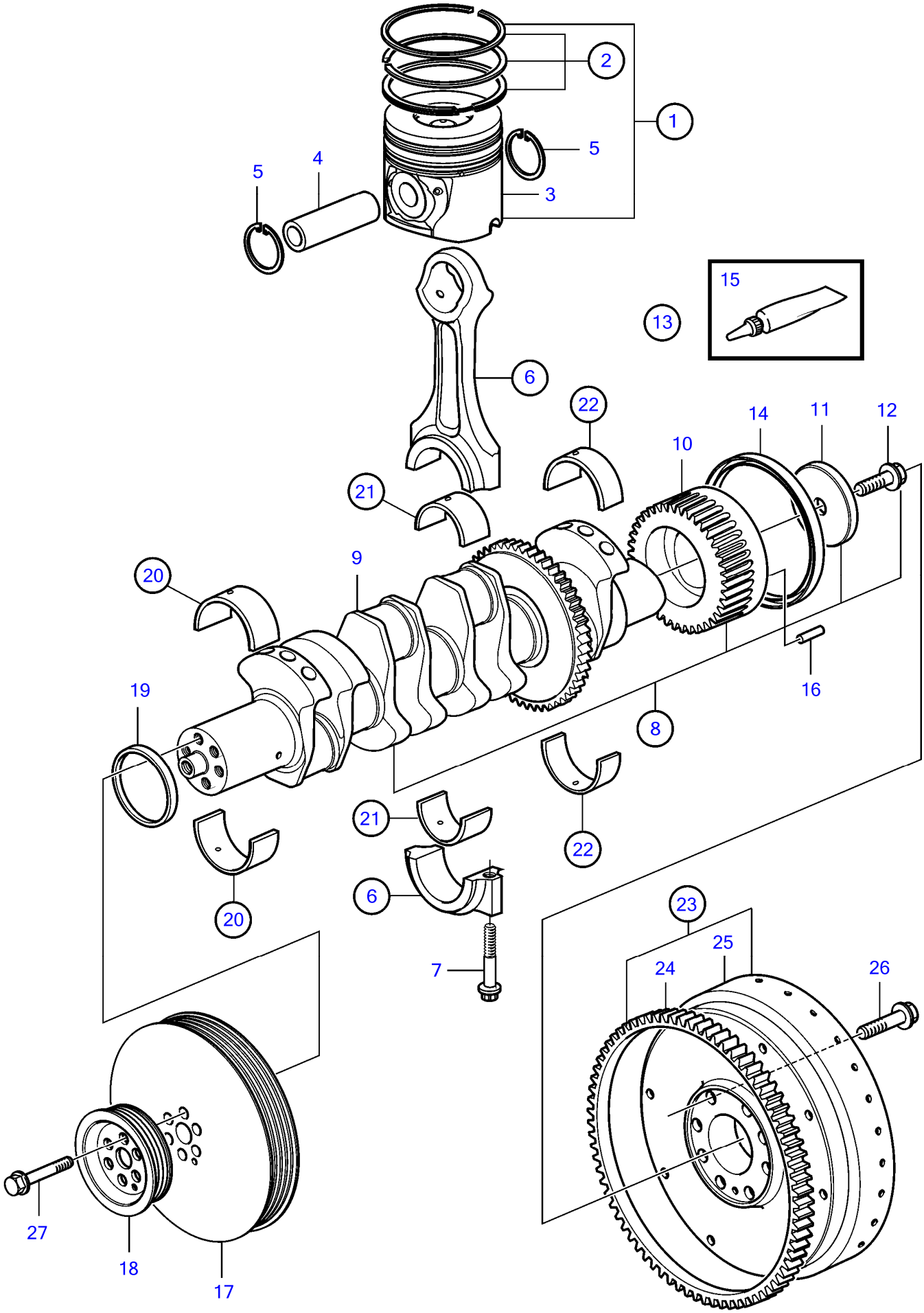


23146

D4-180I-F, D4-225A-F, D4-225I-F, D4-260A-F, D4-260D-F, D4-260I-F

REF	PART NO.	QTY	DESCRIPTION	NOTES
1	21921545	4	Piston kit	Oil grove 3.5 mm, SN -A180586
	22915954	4	Piston kit	Oil grove 3.0 mm, SN A180587-
	23083946	4	Piston kit	Oversize 0,5mm
2	22582994	1	· Piston ring kit	SN -A180586
	21711728	1	· Piston ring kit	SN A180587-
	23083950	1	· Piston ring kit	Oversize 0,5mm
3		1	· Piston	
		1	· Piston	
4	3581912	1	· Piston pin	
5	982437	2	· Snap ring	
6	21359313	4	Connecting rod	
7	3581905	2	· Screw	
8		1	Crankshaft	
9	3818267	1	· Spare parts kit	
10	3583264	1	· Gear	
11	3582741	1	· Washer	
12	465825	1	· Flange screw	
13	3586960	1	Sealing ring kit	
14		1	· Sealing ring	
15	1161687	1	· Grease	
16	950566	1	Pin	
17	3841075	1	Vibration damper	
18	3582687	1	Pulley	
19	3582748	1	Sealing ring	
20	3586871	4	Main bearing kit	Std
	3586873	4	Main bearing kit	O.S=0,25mm
	3586875	4	Main bearing kit	O.S=0.50mm
	3586876	4	Main bearing kit	O.S=0,75mm
21	3885323	4	Bearing shell kit	Std
	3885324	4	Bearing shell kit	O.S=0,25mm
	3885325	4	Bearing shell kit	O.S=0.50mm
	3885326	4	Bearing shell kit	O.S=0,75mm
22	3586877	1	Thrust bearing	Std
	3586879	1	Thrust bearing	O.S=0,25mm
	3586880	1	Thrust bearing	O.S=0.50mm
	3586881	1	Thrust bearing	O.S=0,75mm
23	3581913	1	Flywheel	
24	829462	1	· Ring gear	
25		1	· Flywheel	
26	465825	8	Flange screw	
27	465825	6	Flange screw	

D4-300A-F, D4-300D-F, D4-300I-F

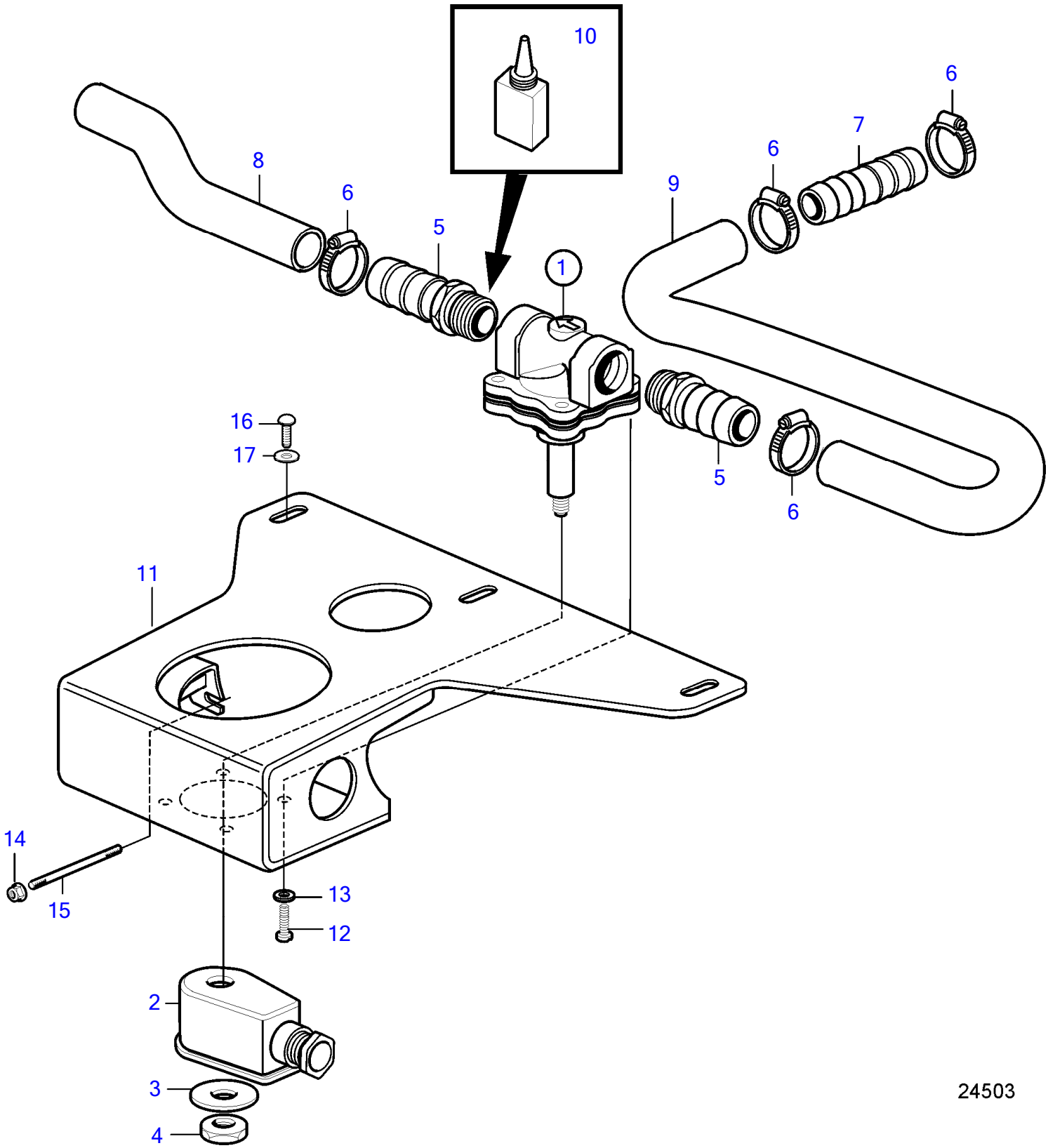


23146

D4-300A-F, D4-300D-F, D4-300I-F

REF	PART NO.	QTY	DESCRIPTION	NOTES
1	21921546	4	Piston kit	Oil grove 3.5 mm, SN -A180870
	22915955	4	Piston kit	Oil grove 3.0 mm, SN A180871-
	23083960	4	Piston kit	Oversize 0,5mm
2	22582994	1	· Piston ring kit	SN -A180870
	21711728	1	· Piston ring kit	SN A180871-
	23083950	1	· Piston ring kit	Oversize 0,5mm
3		1	· Piston	
		1	· Piston	
4	3581912	1	· Piston pin	
5	982437	2	· Snap ring	
6	21359313	4	Connecting rod	
7	3581905	2	· Screw	
8		1	Crankshaft	
9	3818267	1	· Spare parts kit	
10	3583264	1	· Gear	
11	3582741	1	· Washer	
12	465825	1	· Flange screw	
13	3586960	1	Sealing ring kit	
14		1	· Sealing ring	
15	1161687	1	· Grease	
16	950566	1	Pin	
17	3841075	1	Vibration damper	
18	3582687	1	Pulley	
19	3582748	1	Sealing ring	
20	3586871	4	Main bearing kit	Std
	3586873	4	Main bearing kit	O.S=0,25mm
	3586875	4	Main bearing kit	O.S=0.50mm
	3586876	4	Main bearing kit	O.S=0,75mm
21	3885323	4	Bearing shell kit	Std
	3885324	4	Bearing shell kit	O.S=0,25mm
	3885325	4	Bearing shell kit	O.S=0.50mm
	3885326	4	Bearing shell kit	O.S=0,75mm
22	3586877	1	Thrust bearing	Std
	3586879	1	Thrust bearing	O.S=0,25mm
	3586880	1	Thrust bearing	O.S=0.50mm
	3586881	1	Thrust bearing	O.S=0,75mm
23	3581913	1	Flywheel	
24	829462	1	· Ring gear	
25		1	· Flywheel	
26	465825	8	Flange screw	
27	465825	6	Flange screw	

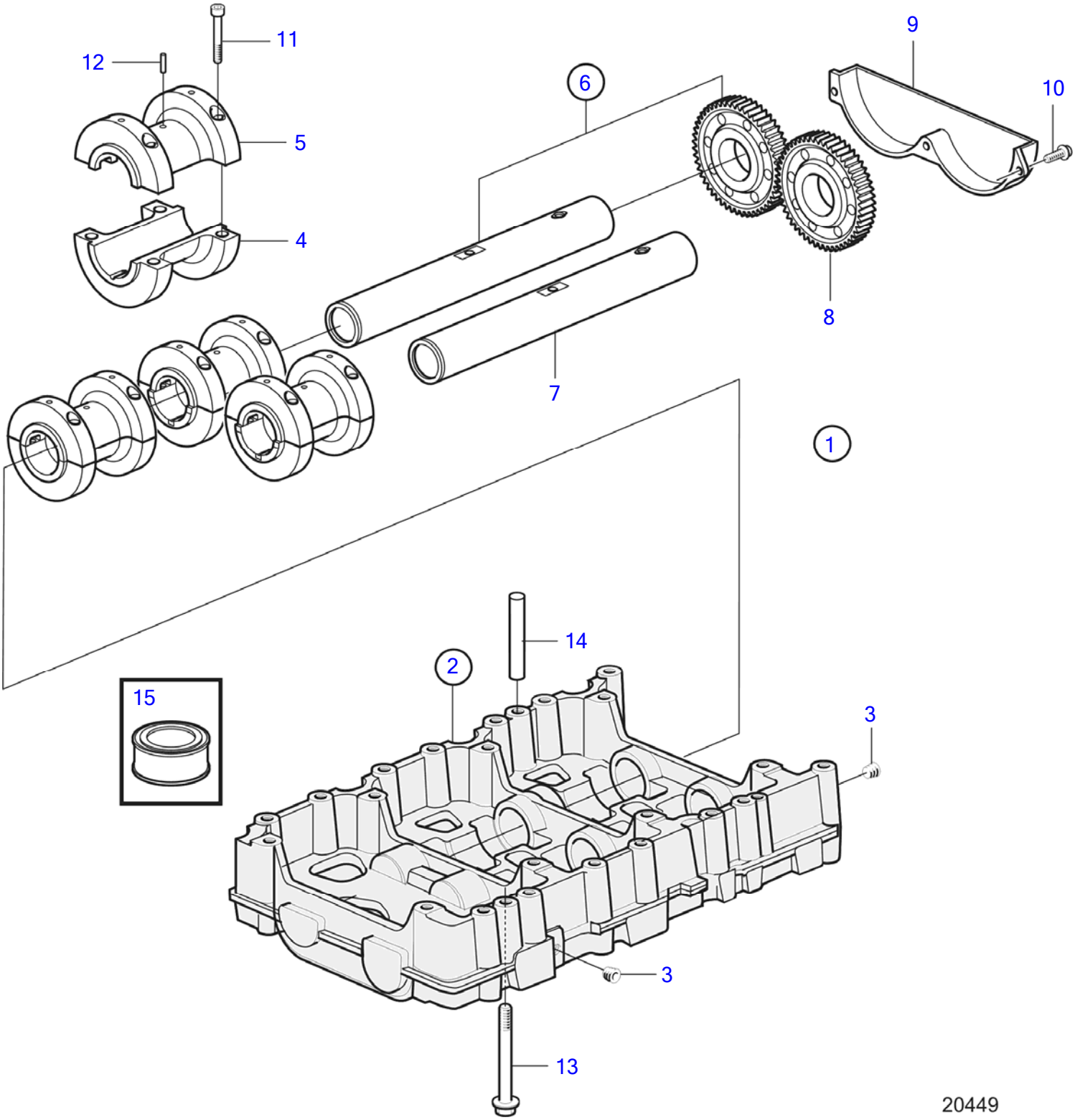
D4-180I-F, D4-260A-F, D4-260D-F, D4-260I-F



D4-180I-F, D4-260A-F, D4-260D-F, D4-260I-F

REF	PART NO.	QTY	DESCRIPTION	NOTES
1	3884115	1	Solenoid valve	12V
	21422478	1	Solenoid valve	24V
2		1	· Housing	
3		1	· Washer	
4		1	· Nut	
5	991171	2	Hose nipple	
6	961666	4	Hose clamp	
7	991128	1	Hose nipple	
8	3884904	1	Hose	
9	3884902	1	Hose	
10	1161053	1	Locking fluid	
11	21132527	1	Bracket	(3885310)
12	955514	3	Hexagon screw	
13	976943	3	Washer	
14	945408	2	Flange nut	
15	948194	2	Stud	
16	971321	3	6 point socket screw	M6x16mm
17	976943	3	Washer	

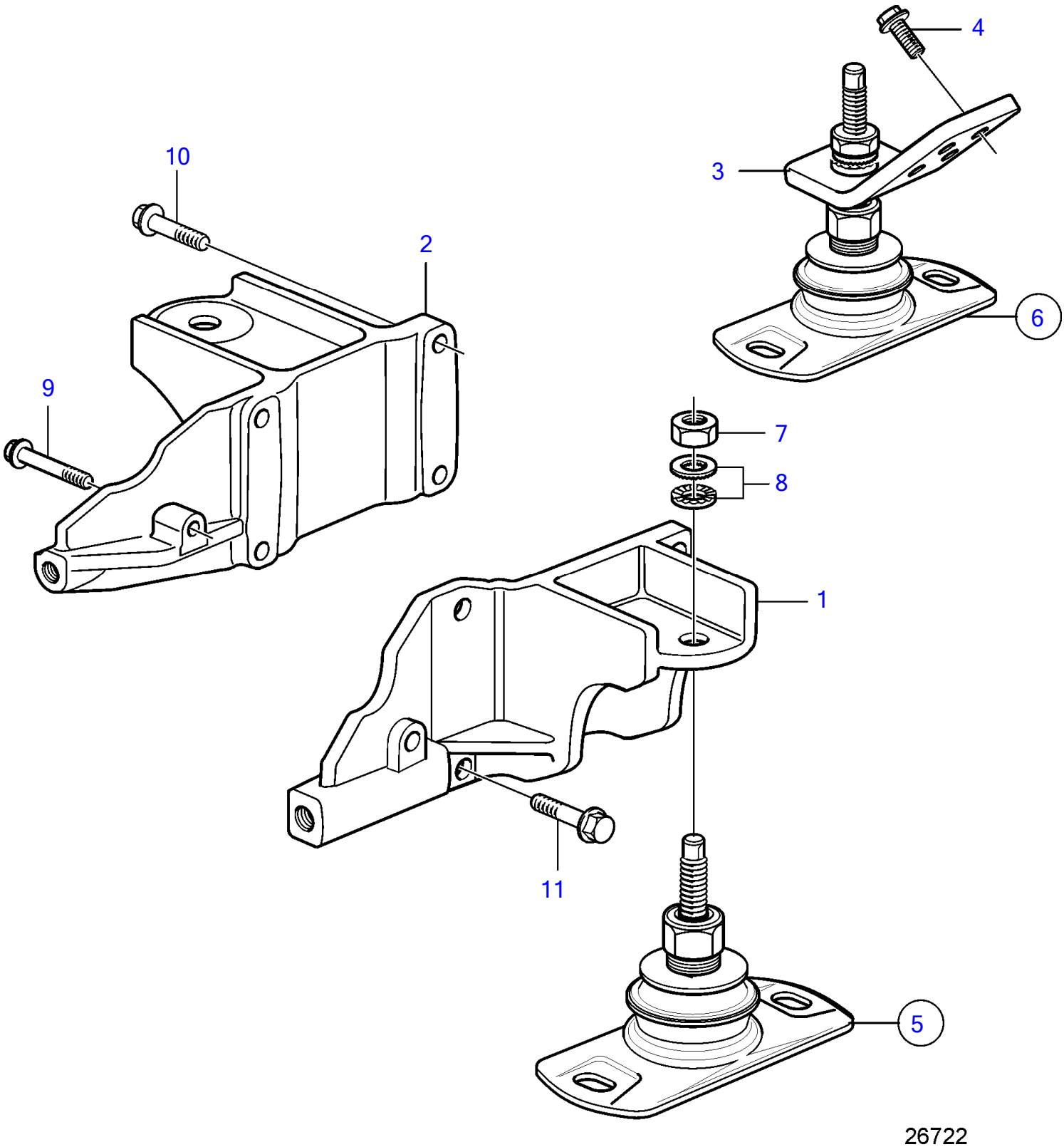
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D4-180I-F, D4-225A-F, D4-225I-F, D4-260A-F, D4-260D-F, D4-260I-F, D4-300A-F, D4-300D-F, D4-300I-F

REF	PART NO.	QTY	DESCRIPTION	NOTES
1	21257397	1	Housing	
2		1	・Housing	
3	990828	2	・・Plug	
4		4	・Counterweight	
5	3818299	4	・Dummy	
6	21511517	2	・Shaft	
7		1	・・Shaft	
8		1	・・Gear	
9	3583812	1	・Cover	
10	969420	3	・6 point socket screw	L=12mm
11	959213	16	・Hex. socket screw	
12	946402	4	・Grooved pin	
13	965184	22	Flange screw	
14	950564	2	Pin	
15	3588346	X	Lubricant	500G

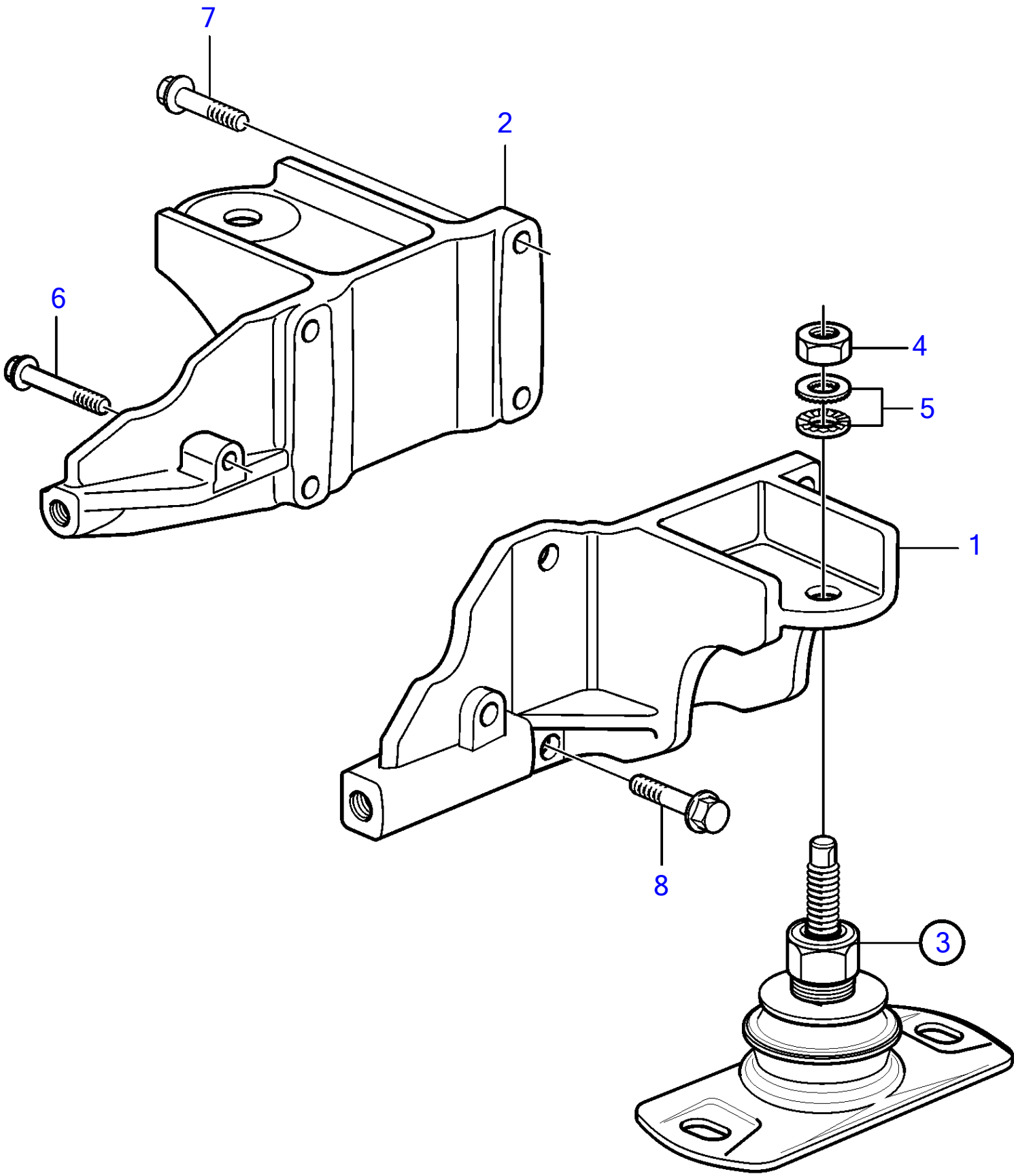
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D4-180I-F, D4-225I-F, D4-260D-F, D4-260I-F, D4-300D-F, D4-300I-F

REF	PART NO.	QTY	DESCRIPTION	SEE SEC.	NOTES
1	21487639	1	Engine bracket		
2	21487641	1	Engine bracket		S.B, Front
3	3583620	2	Engine bracket		Rear
4	965192	8	Flange screw		L=40mm
5	3595043	2	Rubber cushion		
			• Bulletin P-21-8-1	P-21-8-1-EN	Comfort Engine Suspension
			• Bulletin P-08-2-2	P-08-2-2-EN	Measuring Gauge for Rubber Mounts
6	3595043	2	Rubber cushion		
			• Bulletin P-21-8-1	P-21-8-1-EN	Comfort Engine Suspension
			• Bulletin P-08-2-2	P-08-2-2-EN	Measuring Gauge for Rubber Mounts
7	955786	1	• Hexagon nut		
8	847766	1	• Lock washer		
9	965188	1	Flange screw		L=70mm
10	965192	8	Flange screw		L=40mm
11	965186	1	Flange screw		L=50mm

D4-225A-F, D4-260A-F, D4-260D-F, D4-300A-F, D4-300D-F

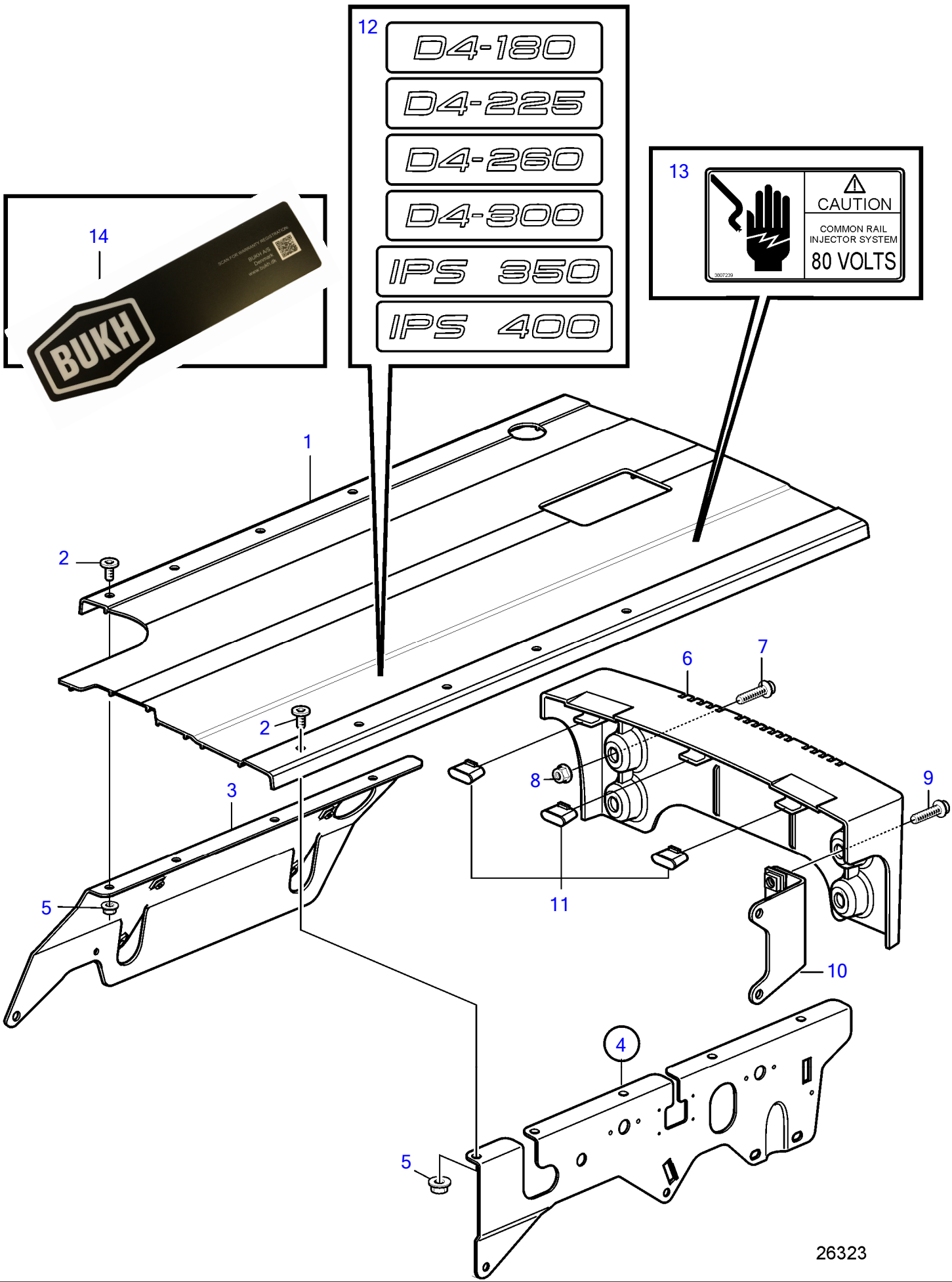


23894

D4-225A-F, D4-260A-F, D4-260D-F, D4-300A-F, D4-300D-F

REF	PART NO.	QTY	DESCRIPTION	SEE SEC.	NOTES
1	21487639	1	Engine bracket		
2	21487641	1	Engine bracket		S.B, Front
3	3595043	2	Rubber cushion		
			• Bulletin P-21-8-1	P-21-8-1-EN	Comfort Engine Suspension
			• Bulletin P-08-2-2	P-08-2-2-EN	Measuring Gauge for Rubber Mounts
4	955786	1	• Hexagon nut		
5	847766	1	• Lock washer		
6	965188	1	Flange screw		L=70mm
7	965183	8	Flange screw		L=90mm
8	965186	1	Flange screw		L=50mm

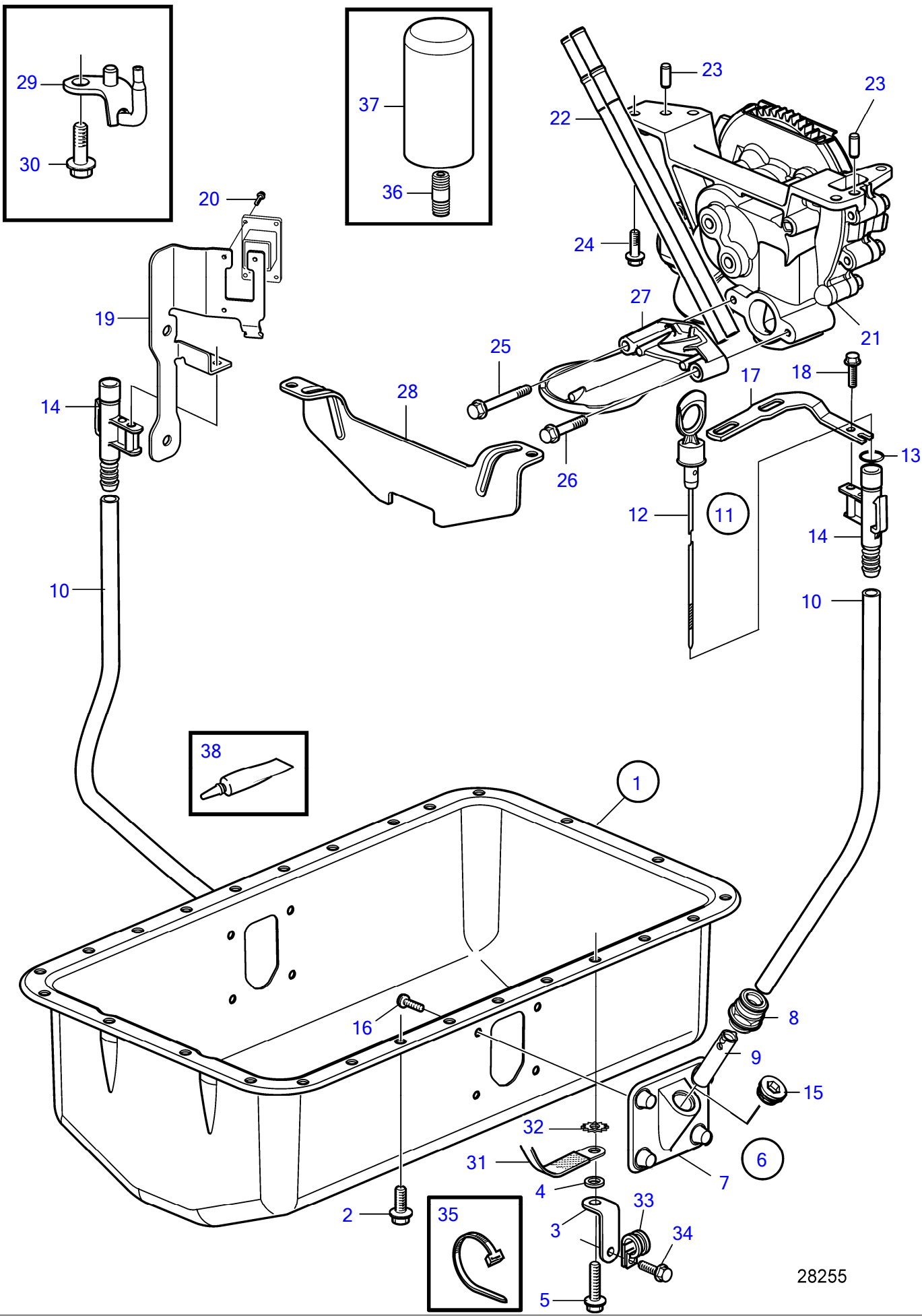
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D4-180I-F, D4-225A-F, D4-225I-F, D4-260A-F, D4-260D-F, D4-260I-F, D4-300A-F, D4-300D-F, D4-300I-F

REF	PART NO.	QTY	DESCRIPTION	NOTES
1	21656732	1	Cover	
2	971319	9	6 point socket screw	
3	21475793	1	Support	
4	21956769	1	Support	
5		6	· Weld nut	
6	3588528	1	Protecting cover	
7	946173	2	Flange screw	
8	945408	2	Flange nut	
9	946671	2	Flange screw	
10	3586068	1	Bracket	
11	3584091	3	Support	
12		1	Decal	D4-180
		1	Decal	D4-225
		1	Decal	D4-260
		1	Decal	D4-300
		1	Decal	IPS 350
		1	Decal	IPS 400
13	3807239	1	Decal	
14	100-140002	1	Bukh engine sticker	

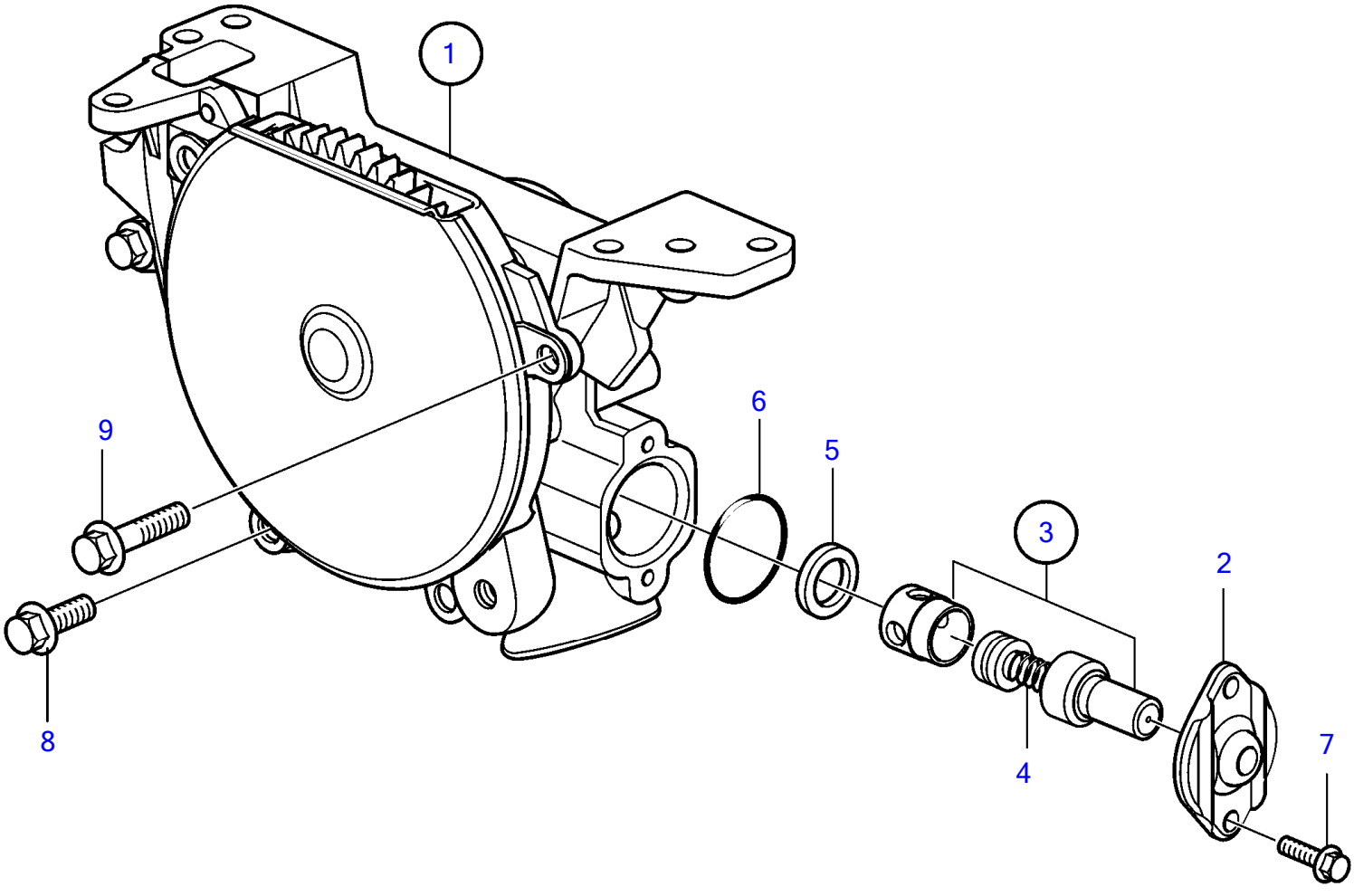
D4-180I-F, D4-225A-F, D4-225I-F, D4-260A-F, D4-260D-F, D4-260I-F, D4-300A-F, D4-300D-F, D4-300I-F



D4-180I-F, D4-225A-F, D4-225I-F, D4-260A-F, D4-260D-F, D4-260I-F, D4-300A-F, D4-300D-F, D4-300I-F

REF	PART NO.	QTY	DESCRIPTION	SEE SEC.	NOTES
1	3582685	1	Sump		
2	946440	25	Flange screw		
3	3584088	1	Angle bracket		
4	941744	1	Washer		
5	946173	1	Flange screw		
6	3887580	1	Pipe retainer		
7	3886957	1	▪ Pipe retainer		
8	3886951	1	▪ Nipple		
9	22456382	1	Guide		
10	3593955	1	Pipe		
11	3594848	1	Kit		
12	21650012	1	▪ Oil dipstick		
13	944124	1	▪ O-ring		
14	11129411	1	▪ Anchorage		
15	3886953	1	Plug		When dipstick are not used
16	969420	8	6 point socket screw		
17	21226128	1	Bracket		
18	968476	1	Flange screw		
19	21997963	1	Bracket		
20	968476	3	Flange screw		
21	3582667	1	Oil pump		
			▪	6479	
22	3583465	2	Drain pipe		
23	950564	2	Pin		
24	946173	4	Flange screw		
25	965181	1	Flange screw		L=70mm
26	973924	1	Flange screw		L=50mm
27	3583127	1	Oil strainer		
28	3595241	1	Baffle plate		
29	3883144	4	Piston cooling jet		
30	3583804	4	Flange screw		
31	968048	1	Chassis ground cable		Sump-alternator.
32	942767	1	Toothed washer		
33	952629	1	Clamp		
34	946501	1	Flange screw		
35	948211	1	Cable tie		
36	423067	1	Nipple	37256	
	3583695	1	Nipple	37256	
37	3582732	1	Oil filter	37256	
	21632901	1	Oil filter	37256	
38	1161771	X	Sealing compound		

D4-180I-F, D4-225A-F, D4-225I-F, D4-260A-F, D4-260D-F, D4-260I-F, D4-300A-F, D4-300D-F, D4-300I-F

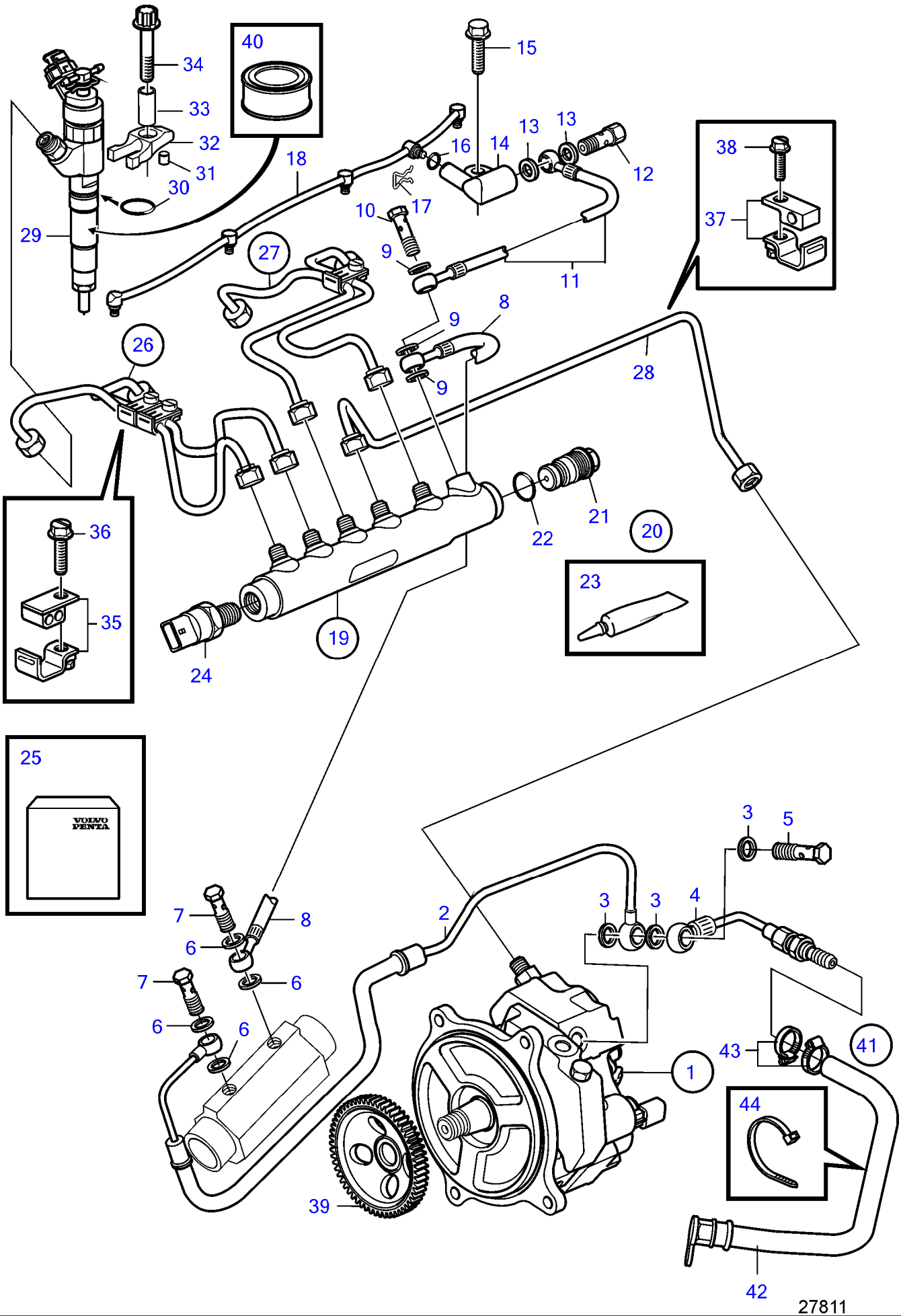


24266

D4-180I-F, D4-225A-F, D4-225I-F, D4-260A-F, D4-260D-F, D4-260I-F, D4-300A-F, D4-300D-F, D4-300I-F

REF	PART NO.	QTY	DESCRIPTION	NOTES
1	3582667	1	Oil pump	
2	471648	1	・Cover	
3	3826265	1	・Reduction valve	
4	3826266	1	・・Spring	
5	469846	1	・Sealing ring	
6	949659	1	・O-ring	
7	946544	2	・Flange screw	L=16mm
8	946470	2	・Flange screw	L=35mm
9	967949	2	・Flange screw	L=12mm

D4-180I-F, D4-225A-F, D4-225I-F, D4-260A-F, D4-260D-F, D4-260I-F

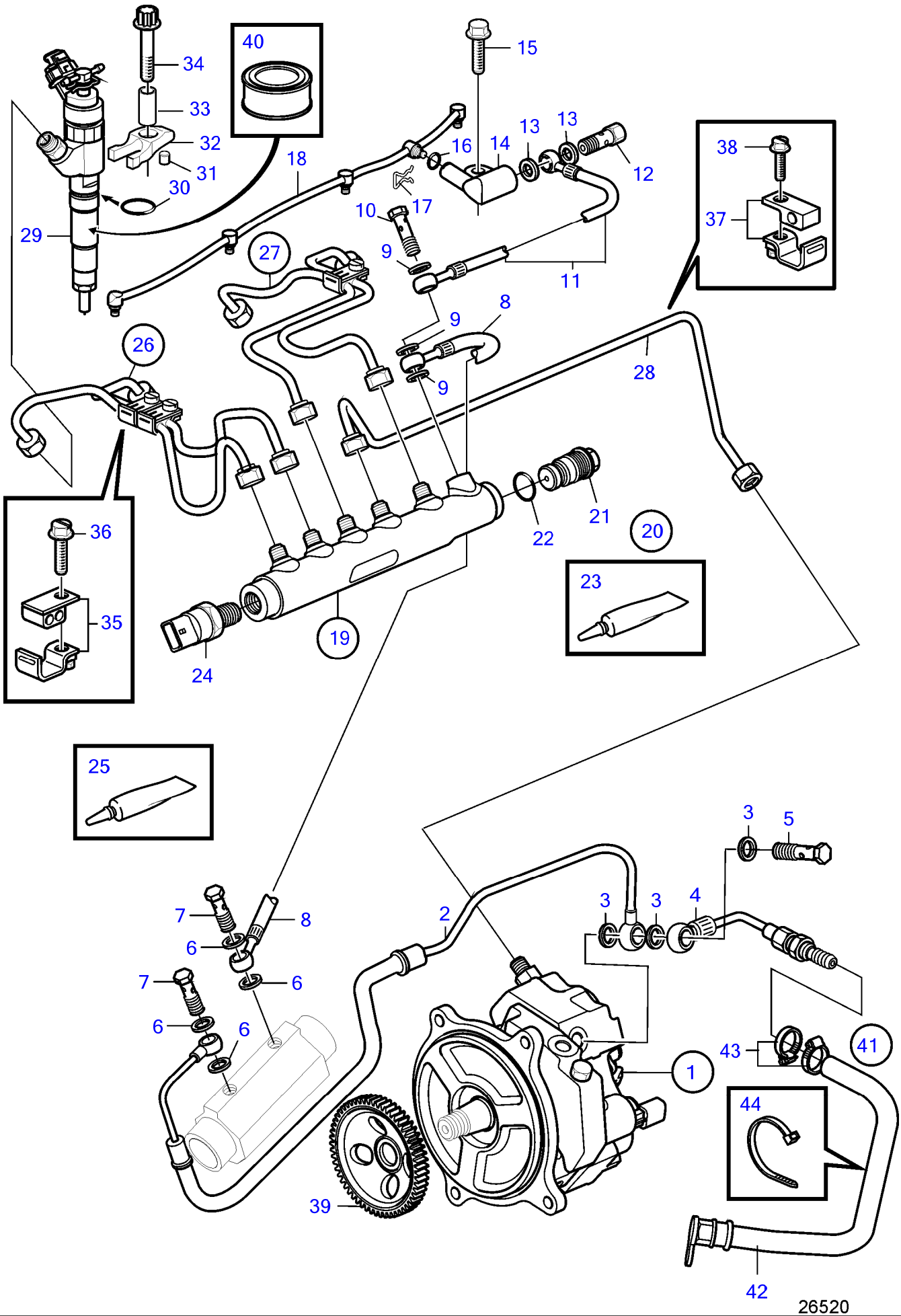


27811

D4-180I-F, D4-225A-F, D4-225I-F, D4-260A-F, D4-260D-F, D4-260I-F

REF	PART NO.	QTY	DESCRIPTION	SEE SEC.	NOTES
1	889635	1	High-pressure pump		
			▪	37238	
	3803633	1	High-pressure pump,, exch		
			▪	37238	
2	3582997	1	Fuel hose		
3	11994	3	Gasket		
4	21822234	1	Return connection		
5	947975	1	Hollow screw		
6	20852763	4	Sealing ring		
7	969299	2	Hollow screw		
8	3584367	1	Fuel hose		
9	11994	3	Gasket		
10	947975	1	Hollow screw		
11	3584366	1	Fuel hose		
12	3584427	1	Pressure retaining v		
13	969011	2	Gasket		
14	3583123	1	Valve housing		
15	946173	1	Flange screw		
16	3589700	5	O-ring		
17	3583122	1	Lock spring		
18	3582802	1	Leak-off line		
19	3886062	1	Rail		
20	3884353	1	▪ Pressure limiting va		
21		1	▪▪ Pressure limiting va		
22	3588336	1	▪▪▪ O-ring		
23	828250	1	▪▪ Lubricating grease		
			▪ Bulletin P-18-4-6	P-18-4-6-EN	Water resistant grease for grease gun
24	3843100	1	▪ Pressure sensor		Buy cable kit 21758827 separately
25	21758827	1	Cable kit		
26	3588024	1	Delivery pipe kit		
27	3588025	1	Delivery pipe kit		
28	3582796	1	Delivery pipe		
29	3801295	4	Injector		
30	3583078	4	O-ring		
31	3583442	4	Support		
32	3582669	4	Clamp		
33	889789	4	Sleeve		
34	3586690	4	Six point screw		
35	3586006	3	Clamp		
36	3586005	3	Screw		
37	3588018	2	Clamp		
38	946544	2	Flange screw		
39	889749	1	Gear		
40	3588346	X	Lubricant		500G
41	21967719	1	Hose		
42	21945682	1	▪ Hose		
43	961664	2	▪ Hose clamp		
44	980464	1	▪ Cable tie		

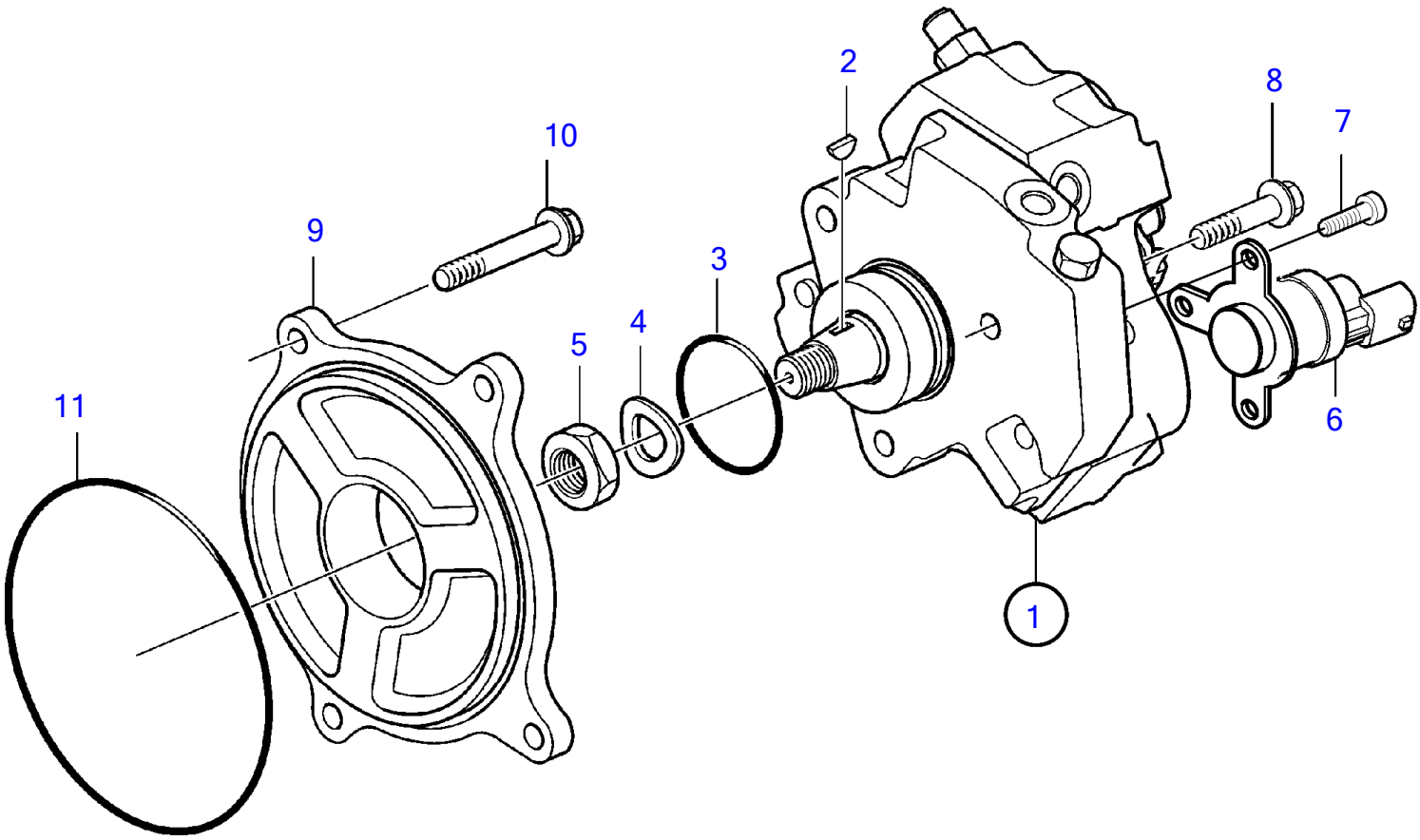
D4-300A-F, D4-300D-F, D4-300I-F



D4-300A-F, D4-300D-F, D4-300I-F

REF	PART NO.	QTY	DESCRIPTION	SEE SEC.	NOTES
1	889635	1	High-pressure pump		
			▪	37238	
	3803633	1	High-pressure pump,, exch		
			▪	37238	
2	3582997	1	Fuel hose		
3	11994	3	Gasket		
4	21822234	1	Return connection		
5	947975	1	Hollow screw		
6	20852763	4	Sealing ring		
7	969299	2	Hollow screw		
8	3584367	1	Fuel hose		
9	11994	3	Gasket		
10	947975	1	Hollow screw		
11	3584366	1	Fuel hose		
12	3584427	1	Pressure retaining v		
13	969011	2	Gasket		
14	3583123	1	Valve housing		
15	946173	1	Flange screw		
16	3589700	5	O-ring		
17	3583122	1	Lock spring		
18	3582802	1	Leak-off line		
19	3886062	1	Rail		
20	3884353	1	▪ Pressure limiting va		
21		1	▪▪ Pressure limiting va		
22	3588336	1	▪▪▪ O-ring		
23	828250	1	▪▪ Lubricating grease		
			▪ Bulletin P-18-4-6	P-18-4-6-EN	Water resistant grease for grease gun
24		1	▪ Cable		
25	828250	1	▪ Lubricating grease		
			▪ Bulletin P-18-4-6	P-18-4-6-EN	Water resistant grease for grease gun
26	3588024	1	Delivery pipe kit		
27	3588025	1	Delivery pipe kit		
28	3582796	1	Delivery pipe		
29	3801148	4	Injector		
30	3583078	4	O-ring		
31	3583442	4	Support		
32	3582669	4	Clamp		
33	889789	4	Sleeve		
34	3586690	4	Six point screw		
35	3586006	3	Clamp		
36	3586005	3	Screw		
37	3588018	2	Clamp		
38	946544	2	Flange screw		
39	889749	1	Gear		
40	3588346	X	Lubricant		500G
41	21967719	1	Hose		
42	21945682	1	▪ Hose		
43	961664	2	▪ Hose clamp		
44	980464	1	▪ Cable tie		

D4-180I-F, D4-225A-F, D4-225I-F, D4-260A-F, D4-260D-F, D4-260I-F, D4-300A-F, D4-300D-F, D4-300I-F

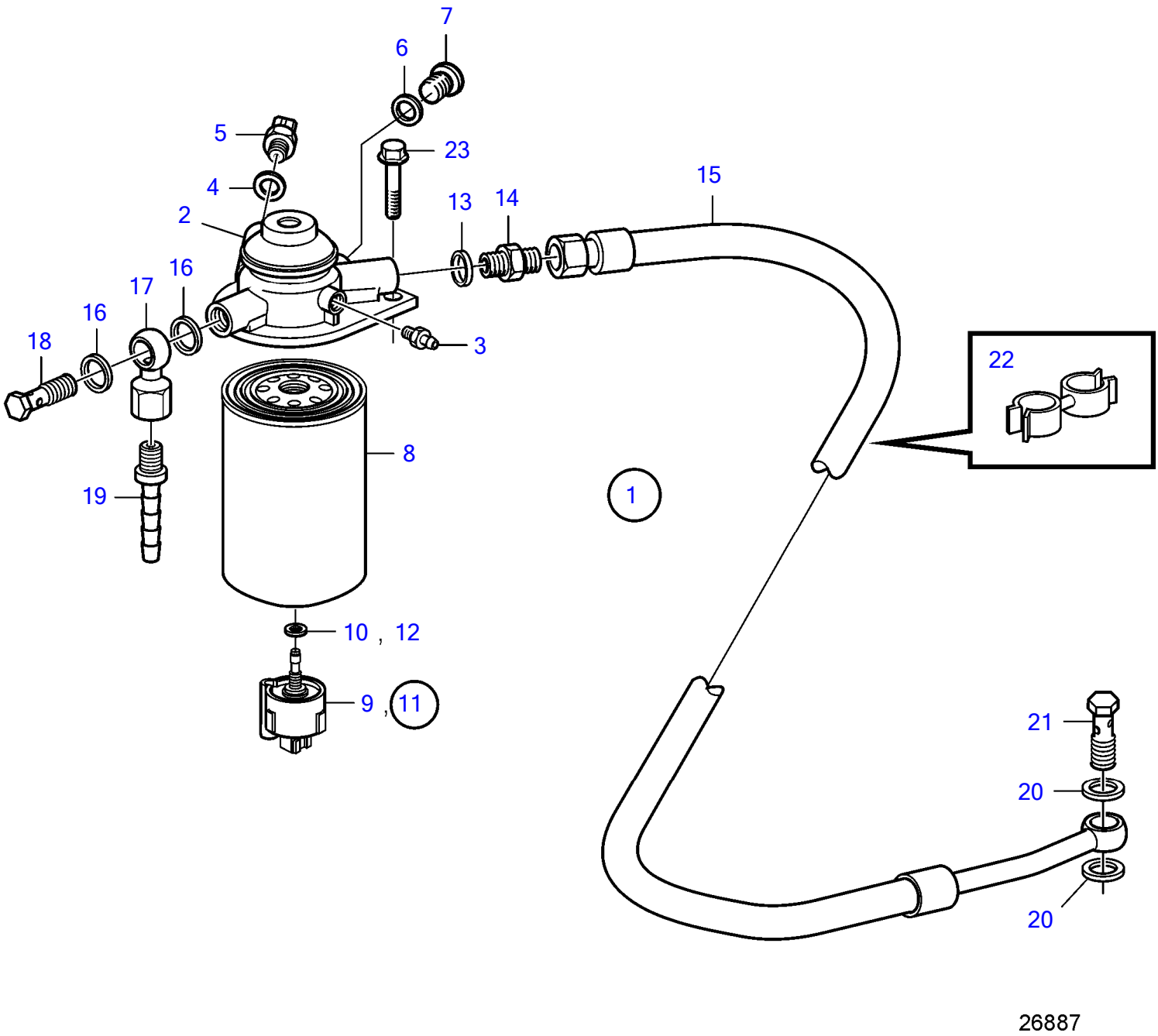


26502

D4-180I-F, D4-225A-F, D4-225I-F, D4-260A-F, D4-260D-F, D4-260I-F, D4-300A-F, D4-300D-F, D4-300I-F

REF	PART NO.	QTY	DESCRIPTION	NOTES
1	889635	1	High-pressure pump	
	3803633	1	High-pressure pump,, exch	
2	243734	1	· Woodruff key	
3	8631580	1	· O-ring	
4	3588228	1	· Spring washer	
5	3588229	1	· Hexagon nut	
6	21945363	1	Solenoid valve	
7	959190	3	Hex. socket screw	
8	947760	3	Flange screw	L=40mm
9	3885130	1	Intermediate plate	
10	965217	4	Flange screw	L=65mm
11	948888	1	O-ring	

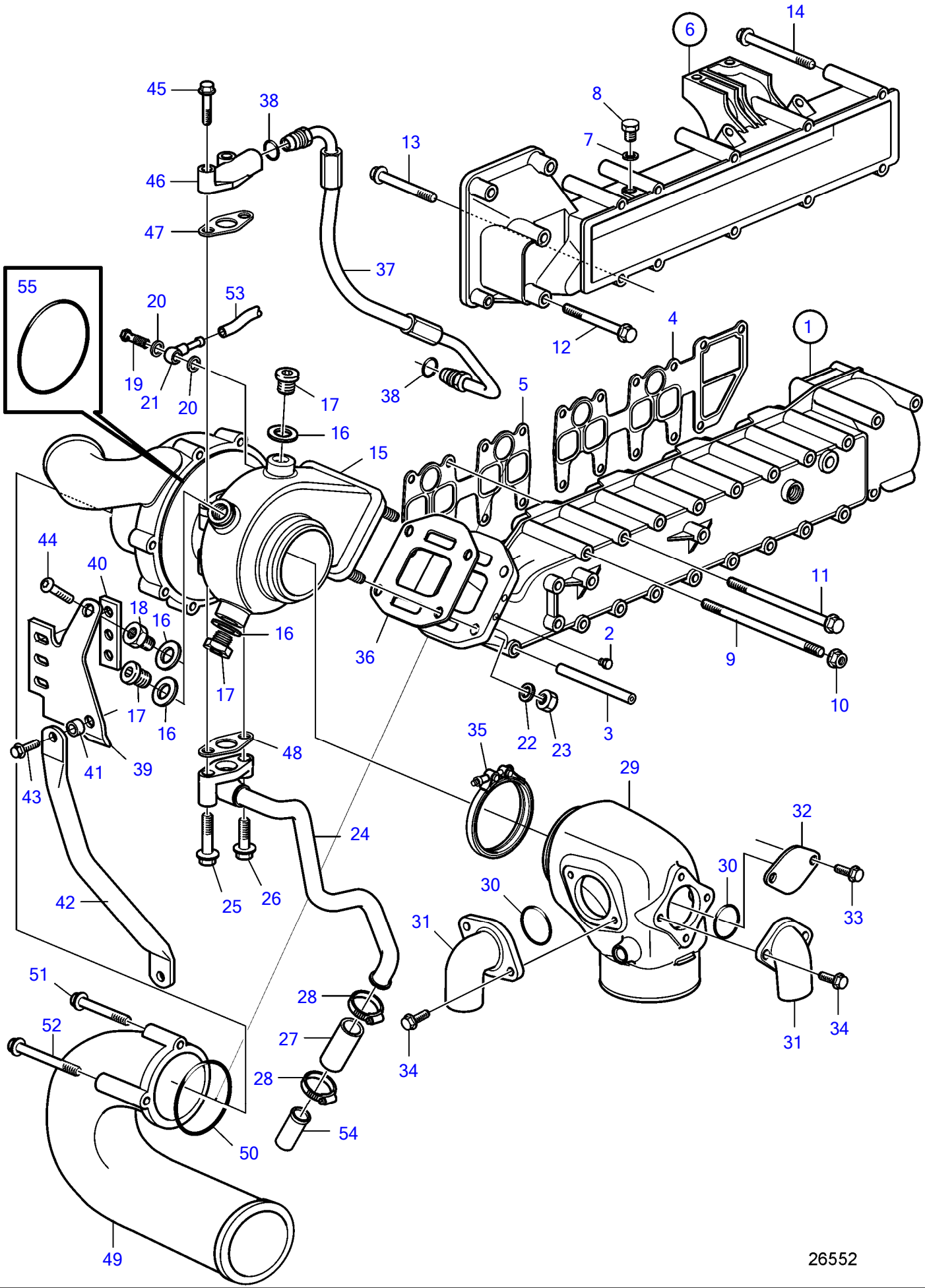
D4-180I-F, D4-225A-F, D4-225I-F, D4-260A-F, D4-260D-F, D4-260I-F, D4-300A-F, D4-300D-F, D4-300I-F



D4-180I-F, D4-225A-F, D4-225I-F, D4-260A-F, D4-260D-F, D4-260I-F, D4-300A-F, D4-300D-F, D4-300I-F

REF	PART NO.	QTY	DESCRIPTION	NOTES
1	3588199	1	Fuel filter	Replaced by 21540371
	21540371	1	Fuel filter	Replaced by 22677437
	22677437	1	Fuel filter	Replaced by 22996879
	22996879	1	Fuel filter	
2		1	· Fuel filter housing	
3	20548012	1	· Faucet	
4	11996	1	· Gasket	
5	1624368	1	· Sensor	
6	969011	1	· Gasket	
7	945065	1	· Plug	M14x1.5
8	21718912	1	· Filter	
9		1	· Sensor	
10	21927730	1	· · Gasket	
11	3808616	1	Sensor	Installation instruction included.
12	21927730	1	· Gasket	
13	969011	1	Gasket	
14	941754	1	Nipple	
15	3582998	1	Fuel hose	
16	969011	2	Gasket	
17	861101	1	Banjo nipple	
18	25167	1	Hollow screw	
19	3825000	1	Hose nipple	
20	969011	2	Gasket	
21	25167	1	Hollow screw	
22	9205207	1	Retainer	
23	946671	2	Flange screw	

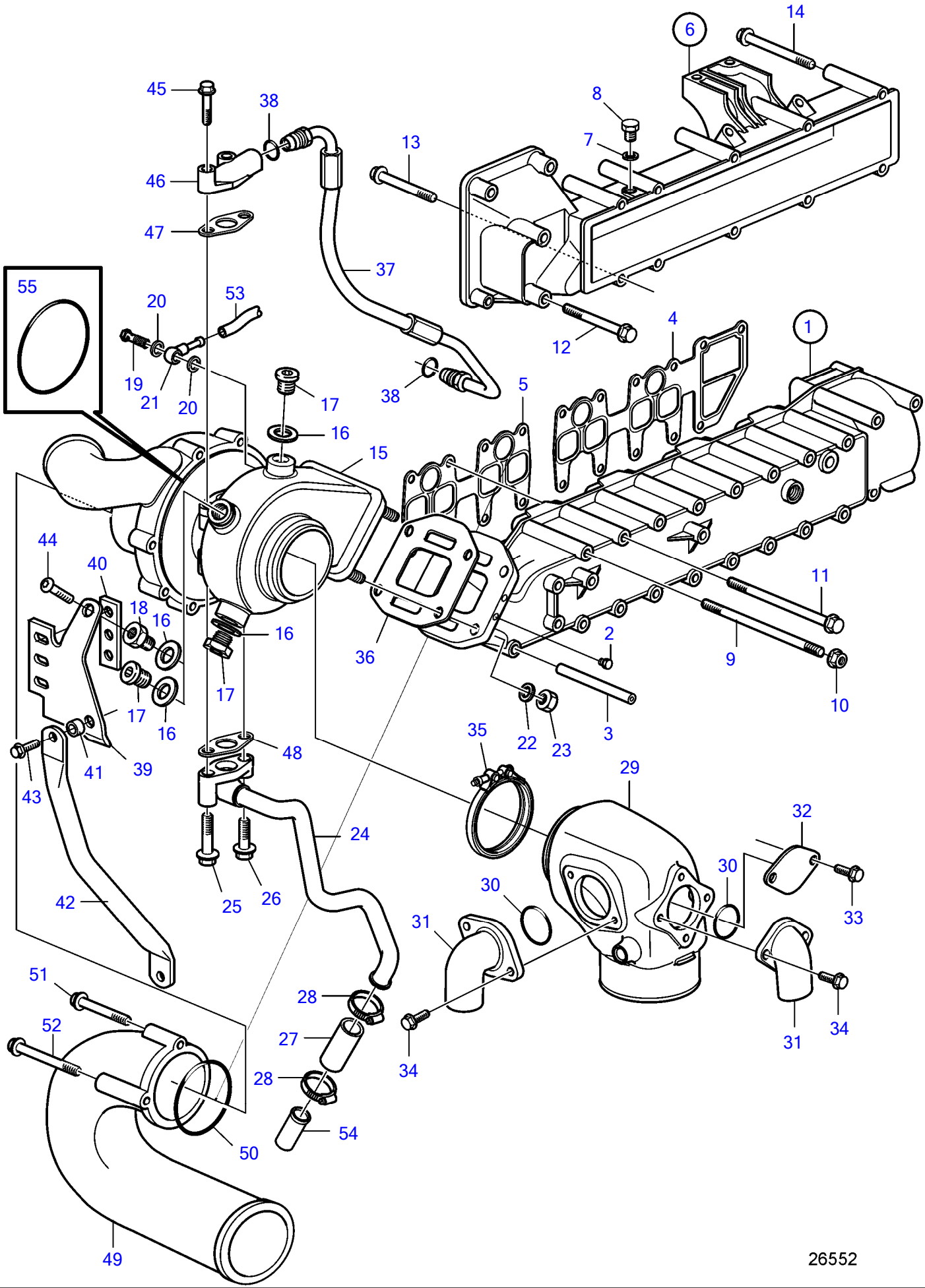
D4-180I-F, D4-225A-F, D4-225I-F



D4-180I-F, D4-225A-F, D4-225I-F

REF	PART NO.	QTY	DESCRIPTION	NOTES
1	3841197	1	Exhaust manifold	
2	479979	1	· Plug	
3	3583116	1	· Spring pin	
4	3583336	1	Gasket	
5	3582725	1	Gasket	
6	3808941	1	Inlet pipe	
7	11994	1	· Gasket	
8	966142	1	· Plug	
9	948194	4	Stud	
10	945408	4	Flange nut	
11	968999	16	Flange screw	L=130mm
12	947760	2	Flange screw	
13	965184	9	Flange screw	L=100mm
14	965182	1	Flange screw	L=80mm
15	3802150	1	Turbocharger	
			· parts not sold separately	
16	947627	2	Gasket	
17	861551	1	Plug	
18	861646	2	Plug	
19	969299	1	Hollow screw	
20	11994	2	Gasket	
21	858750	1	Banjo nipple	
22	955895	4	Washer	
23	991657	4	Hexagon nut	
24	3582967	1	Oil return pipe	
25	948217	1	Flange screw	
26	945444	1	Flange screw	
27	21882797	1	Hose	
28	994559	2	Hose clamp	
29	21684826	1	Exhaust riser	
30	969415	2	O-ring	
31	21450768	2	Connector	
32	3584006	1	Cover	
33	946934	2	Flange screw	
34	948356	4	Flange screw	
35	21325765	1	V-clamp	
36	21452196	1	Gasket	
37	40005392	1	Oil pressure pipe	
38	976971	2	· O-ring	
39	3586073	1	Bracket	
40	(3586070)	1	· Nut retainer	Obsolete part
41	860699	1	Spacer sleeve	
42	3586071	1	Support	
43	946472	1	Flange screw	
44	946471	1	Flange screw	
45	947760	2	Flange screw	
46	8192268	1	Flange	
47	420641	1	Plane gasket	
48	860105	1	Gasket	
49	3812945	1	Connector	
50	949841	1	O-ring	
51	965180	1	Flange screw	
52	968842	2	Flange screw	
53	942700	X	Hose	L=600mm
54	3583622	1	Hose connection	
55	22916981	1	O-ring	

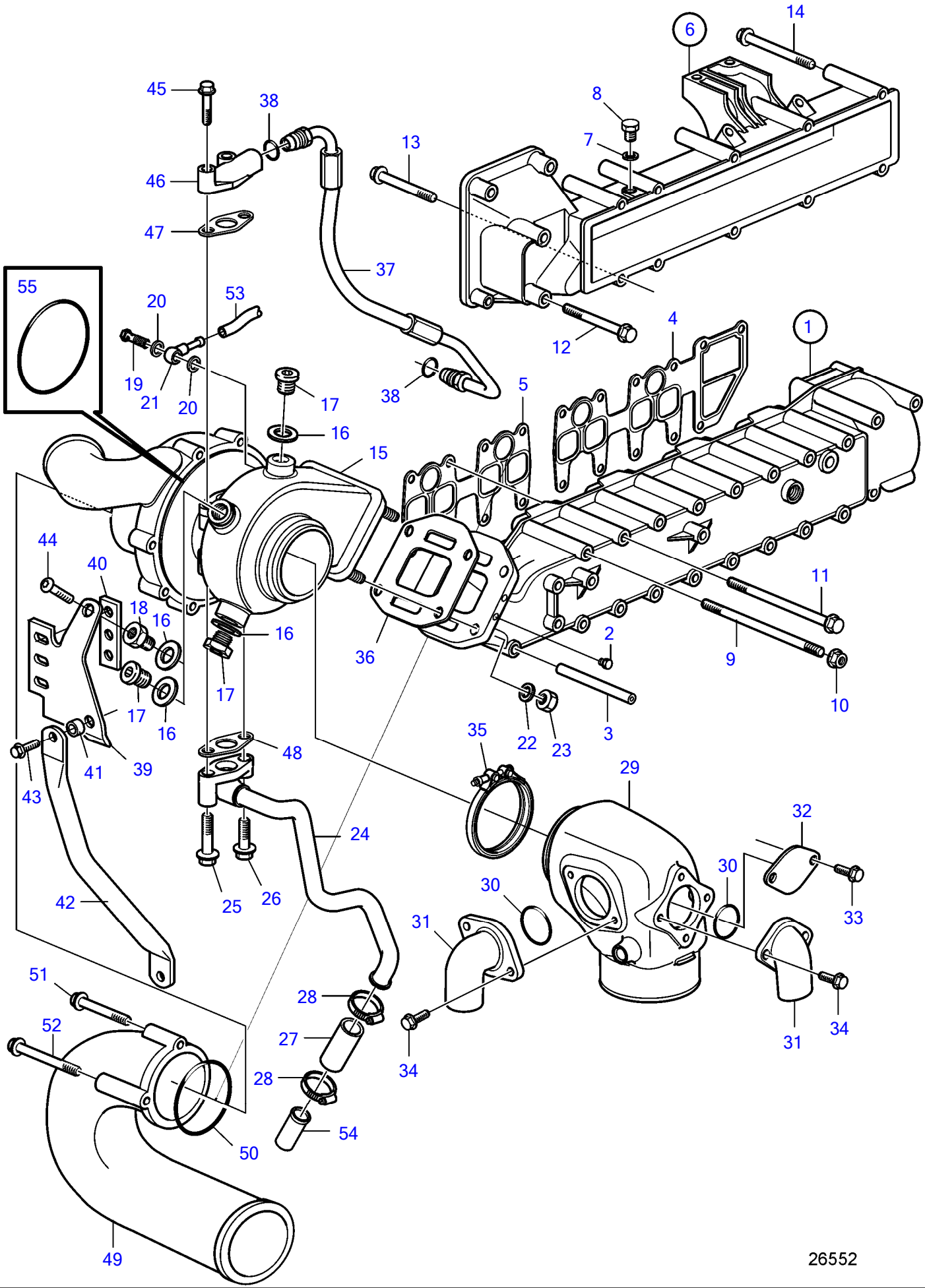
D4-260A-F, D4-260D-F, D4-260I-F



D4-260A-F, D4-260D-F, D4-260I-F

REF	PART NO.	QTY	DESCRIPTION	NOTES
1	3841197	1	Exhaust manifold	
2	479979	1	· Plug	
3	3583116	1	· Spring pin	
4	3583336	1	Gasket	
5	3582725	1	Gasket	
6	3808941	1	Inlet pipe	
7	11994	1	· Gasket	
8	966142	1	· Plug	
9	948194	4	Stud	
10	945408	4	Flange nut	
11	968999	16	Flange screw	L=130mm
12	947760	2	Flange screw	
13	965184	9	Flange screw	L=100mm
14	965182	1	Flange screw	L=80mm
15	3802149	1	Turbocharger	
			· parts not sold separately	
16	947627	2	Gasket	
17	861551	1	Plug	
18	861646	2	Plug	
19	969299	1	Hollow screw	
20	11994	2	Gasket	
21	858750	1	Banjo nipple	
22	955895	4	Washer	
23	991657	4	Hexagon nut	
24	3582967	1	Oil return pipe	
25	948217	1	Flange screw	
26	945444	1	Flange screw	
27	21882797	1	Hose	
28	994559	2	Hose clamp	
29	21684826	1	Exhaust riser	
30	969415	2	O-ring	
31	21450768	2	Connector	
32	3584006	1	Cover	
33	947542	2	Flange screw	
34	948356	4	Flange screw	
35	21325765	1	V-clamp	
36	21452196	1	Gasket	
37	40005392	1	Oil pressure pipe	
38	976971	2	· O-ring	
39	3586073	1	Bracket	
40	(3586070)	1	· Nut retainer	Obsolete part
41	860699	1	Spacer sleeve	
42	3586071	1	Support	
43	946472	1	Flange screw	
44	946471	1	Flange screw	
45	947760	2	Flange screw	
46	8192268	1	Flange	
47	420641	1	Plane gasket	
48	860105	1	Gasket	
49	3812945	1	Connector	
50	949841	1	O-ring	
51	965180	1	Flange screw	
52	968842	2	Flange screw	
53	942700	X	Hose	L=600mm
54	3583622	1	Hose connection	
55	22916981	1	O-ring	

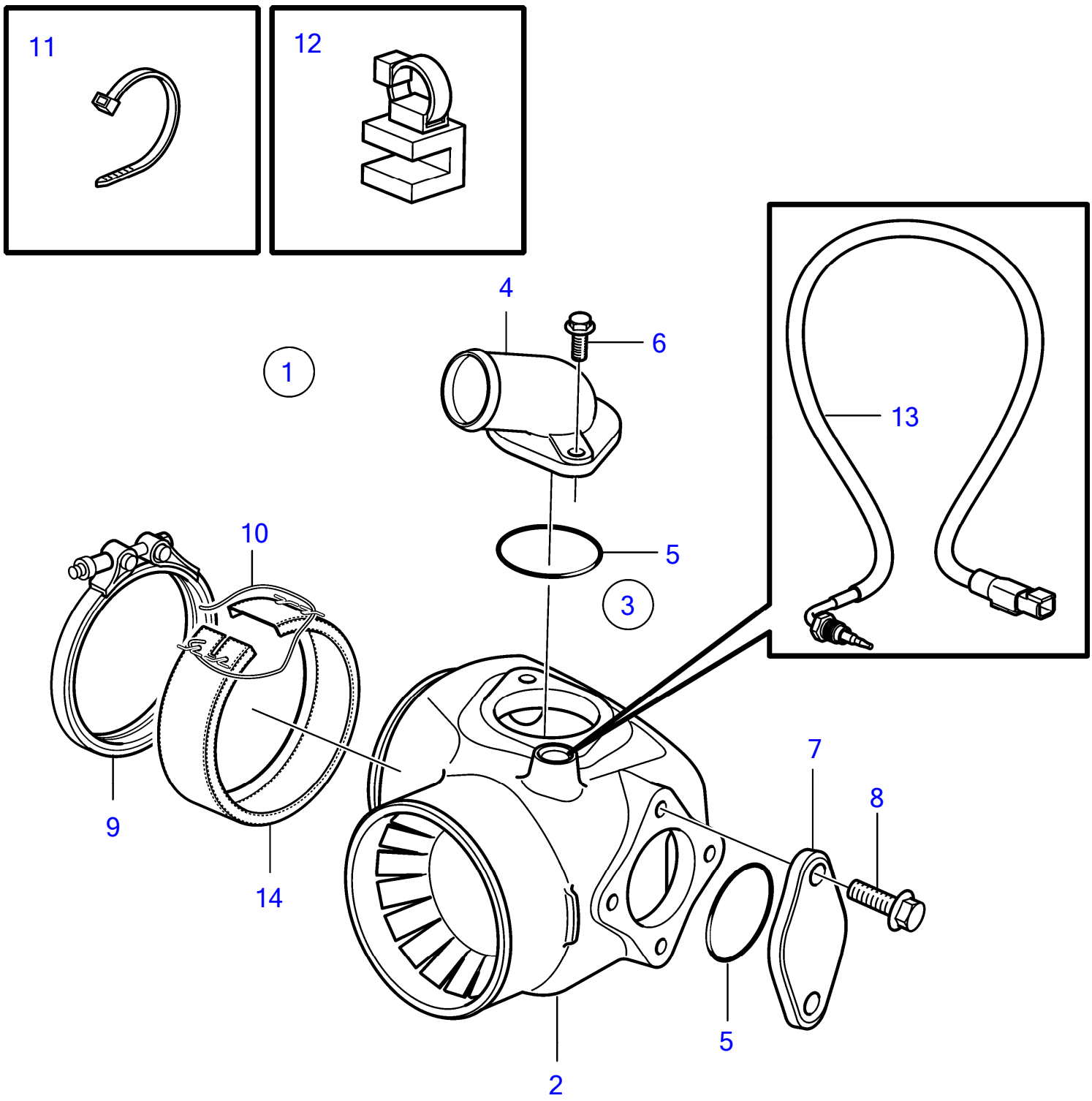
D4-300A-F, D4-300D-F, D4-300I-F



D4-300A-F, D4-300D-F, D4-300I-F

REF	PART NO.	QTY	DESCRIPTION	NOTES
1	3841197	1	Exhaust manifold	
2	479979	1	· Plug	
3	3583116	1	· Spring pin	
4	3583336	1	Gasket	
5	3582725	1	Gasket	
6	3808941	1	Inlet pipe	
7	11994	1	· Gasket	
8	966142	1	· Plug	
9	948194	4	Stud	
10	945408	4	Flange nut	
11	968999	16	Flange screw	L=130mm
12	947760	2	Flange screw	
13	965184	9	Flange screw	L=100mm
14	965182	1	Flange screw	L=80mm
15	3801173	1	Turbocharger	
			· parts not sold separately	
16	947627	2	Gasket	
17	861551	1	Plug	
18	861646	2	Plug	
19	969299	1	Hollow screw	
20	11994	2	Gasket	
21	858750	1	Banjo nipple	
22	955895	4	Washer	
23	991657	4	Hexagon nut	
24	3582967	1	Oil return pipe	
25	948217	1	Flange screw	
26	945444	1	Flange screw	
27	21882797	1	Hose	
28	994559	2	Hose clamp	
29	21684826	1	Exhaust riser	
30	969415	2	O-ring	
31	21450768	2	Connector	
32	3584006	1	Cover	
33	947542	2	Flange screw	
34	948356	4	Flange screw	
35	21325765	1	V-clamp	
36	21452196	1	Gasket	
37	40005392	1	Oil pressure pipe	
38	976971	2	· O-ring	
39	3586073	1	Bracket	
40	(3586070)	1	· Nut retainer	Obsolete part
41	860699	1	Spacer sleeve	
42	3586071	1	Support	
43	946472	1	Flange screw	
44	946471	1	Flange screw	
45	947760	2	Flange screw	
46	8192268	1	Flange	
47	420641	1	Plane gasket	
48	860105	1	Gasket	
49	3812945	1	Connector	
50	949841	1	O-ring	
51	965180	1	Flange screw	
52	968842	2	Flange screw	
53	942700	X	Hose	L=600mm
54	3583622	1	Hose connection	
55	22916981	1	O-ring	

D4-180I-F, D4-225I-F, D4-260I-F, D4-300I-F

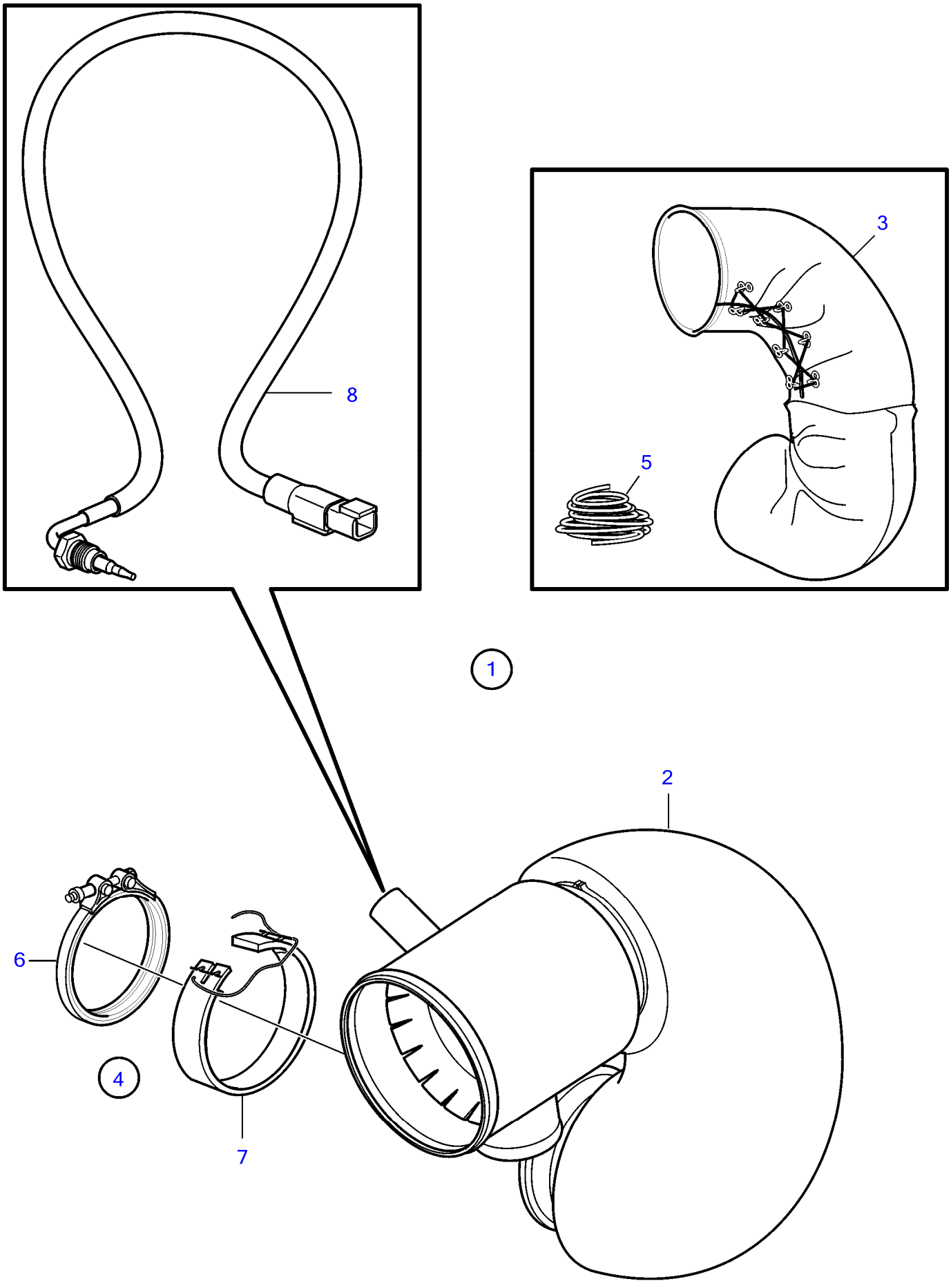


29130

D4-180I-F, D4-225I-F, D4-260I-F, D4-300I-F

REF	PART NO.	QTY	DESCRIPTION	SEE SEC.	NOTES
1		1	Exhaust pipe kit		
2	21684826	1	· Exhaust riser		
3		1	· Kit		
4	21450768	1	· · Connector		
5	969415	2	· · O-ring		
6	948356	2	· · Flange screw		
7	3584006	1	· · Cover		
8	946934	2	· · Flange screw		
9	21325765	1	· · V-clamp		
10	941710		· · Locking wire		L=400mm
11	948211	1	· · Cable tie		
12	(25375491)	1	· · Cable tie		Obsolete part
13	21673187	1	Temperature sensor		
			· Installation Instruction 47703789	47703789-EN	Sensor
14	3817196	1	Isolation		

D4-180I-F, D4-225I-F, D4-260I-F, D4-300I-F

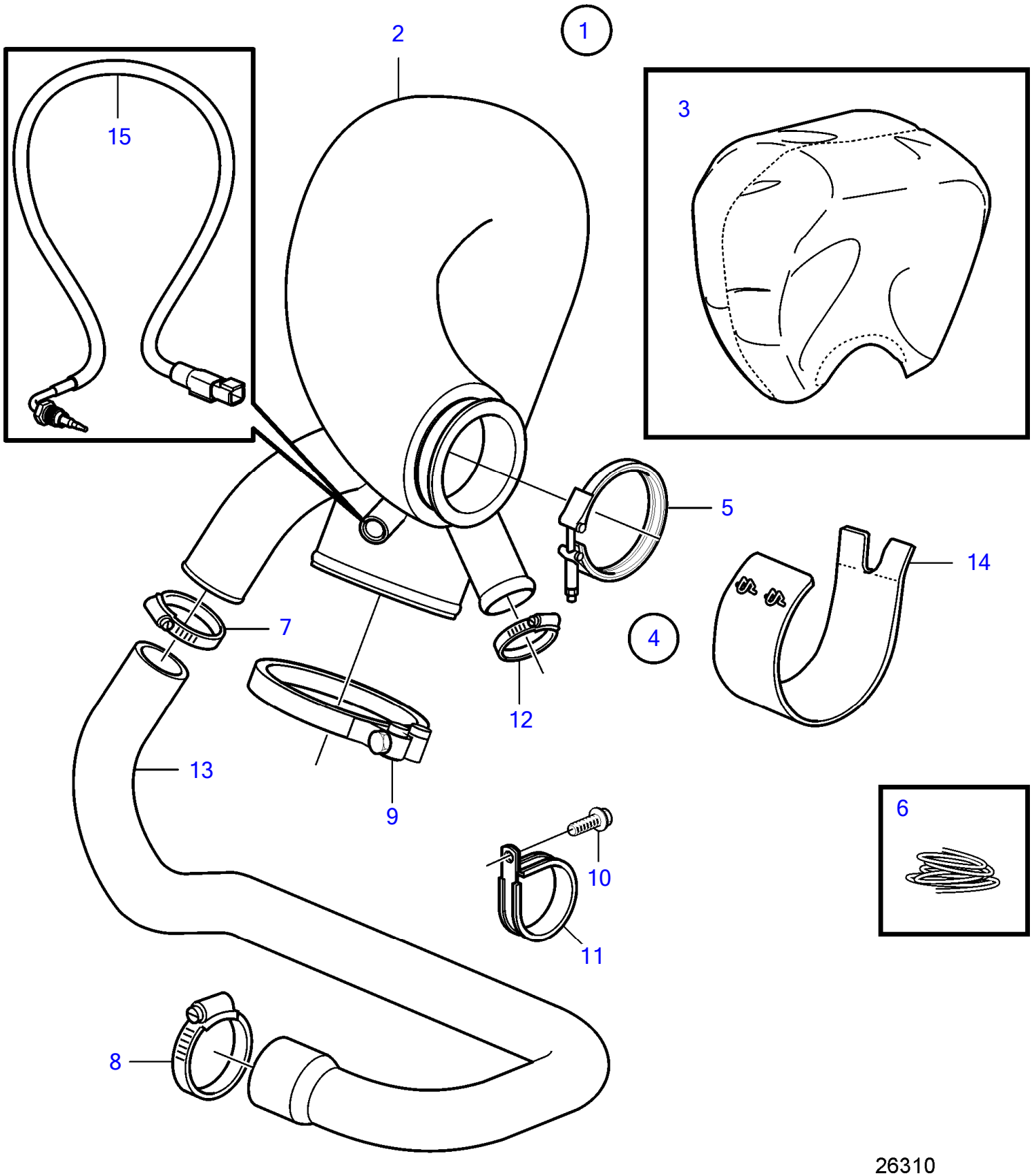


26289

D4-180I-F, D4-225I-F, D4-260I-F, D4-300I-F

REF	PART NO.	QTY	DESCRIPTION	SEE SEC.	NOTES
1		1	Exhaust riser		
2	21700020	1	· Exhaust riser		
3	3584486	1	· Isolation		
4		1	Kit		
5	941710	1	· Locking wire		
6	21325765	1	· V-clamp		
7	3817198	1	· Isolation		
8	21673187	1	Temperature sensor		
			· Installation Instruction 47703789	47703789-EN	Sensor

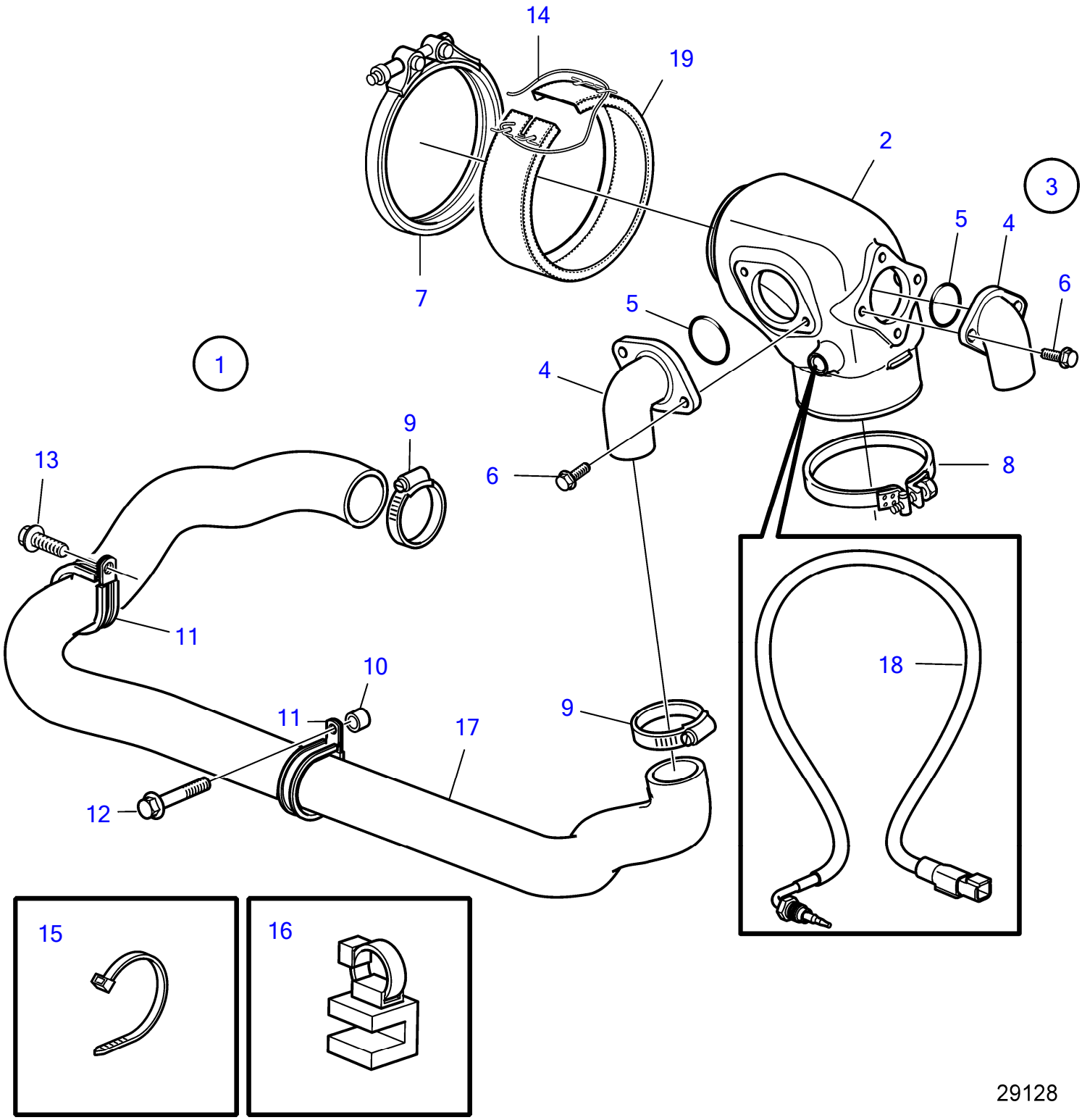
D4-225A-F, D4-260A-F, D4-300A-F



D4-225A-F, D4-260A-F, D4-300A-F

REF	PART NO.	QTY	DESCRIPTION	SEE SEC.	NOTES
1		1	Exhaust riser		
2	21700018	1	· Exhaust riser		
3	3584485	1	· · Isolation		
4		1	· Kit		
5	21325765	1	· · V-clamp		
6	941710	X	· · Locking wire		400mm
7	22274885	1	· · Hose clamp		
8	961671	2	· · Hose clamp		
9	21832260	1	· · Hose clamp		
10	946440	2	· · Flange screw		
11	973944	2	· · Clamp		
12	21832260	1	· · Hose clamp		
13	40005132	1	· Hose		
14	3817198	1	· Isolation		
15	21673187	1	· Temperature sensor		
			· Installation Instruction 47703789	47703789-EN	Sensor

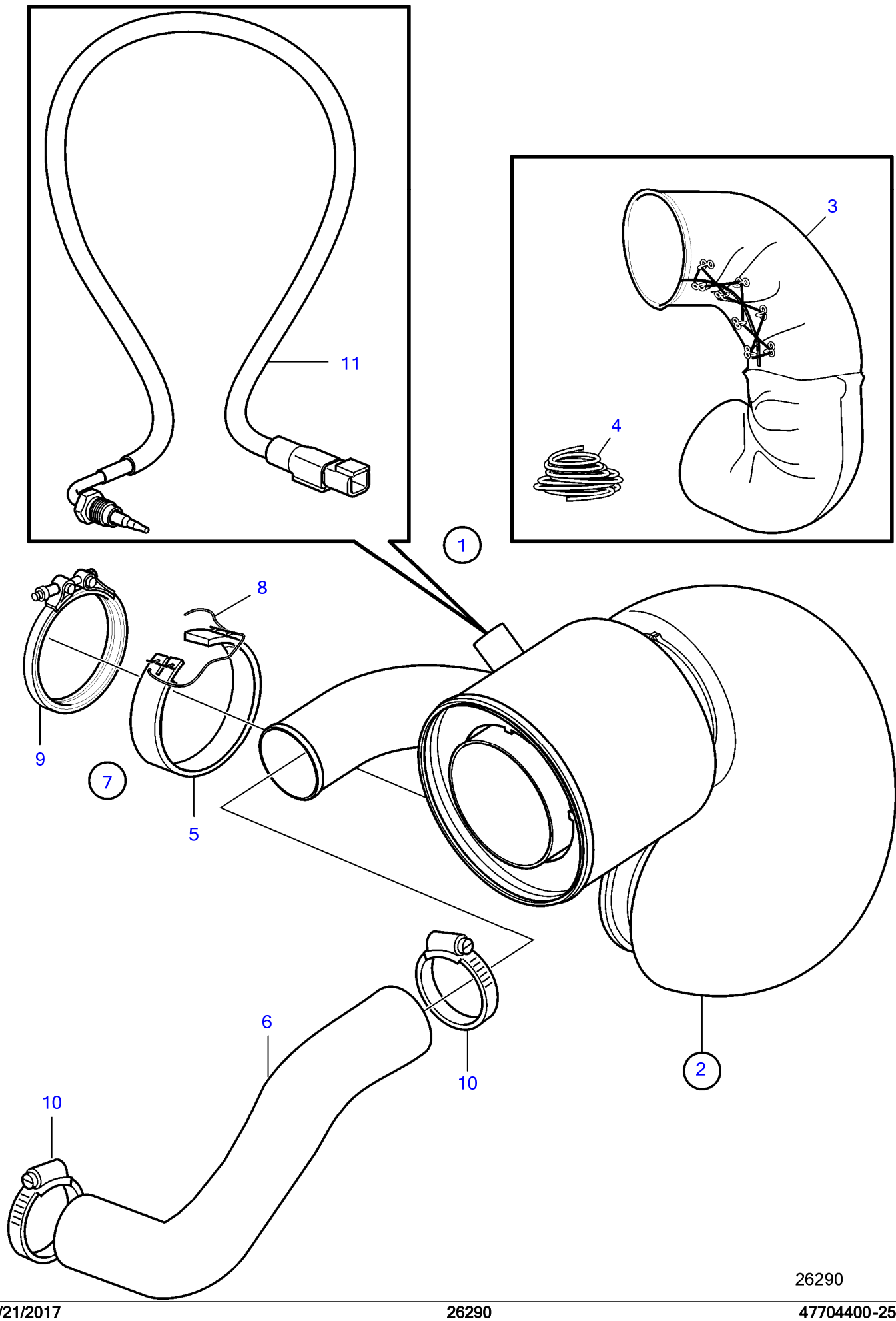
D4-225A-F, D4-260A-F, D4-300A-F



D4-225A-F, D4-260A-F, D4-300A-F

REF	PART NO.	QTY	DESCRIPTION	SEE SEC.	NOTES
1		1	Exhaust pipe kit		
2	21684826	1	· Exhaust riser		
3		1	· Kit		
4	21450768	2	· · Connector		
5	969415	2	· · O-ring		
6	948356	4	· · Flange screw		
7	21325765	1	· · V-clamp		
8	21832260	1	· · Hose clamp		
9	961671	2	· · Hose clamp		
10	980935	1	· · Spacer sleeve		
11	969354	2	· · Clamp		
12	984736	1	· · Flange screw		
13	946440	1	· · Flange screw		
14	941710	X	Locking wire		L=400mm
15	948211	1	Cable tie		
16	(25375491)	1	Cable tie		Obsolete part
17	40005128	1	· Hose		
18	21673187	1	· Temperature sensor		
			· Installation Instruction 47703789	47703789-EN	Sensor
19	3817196	1	· Isolation		

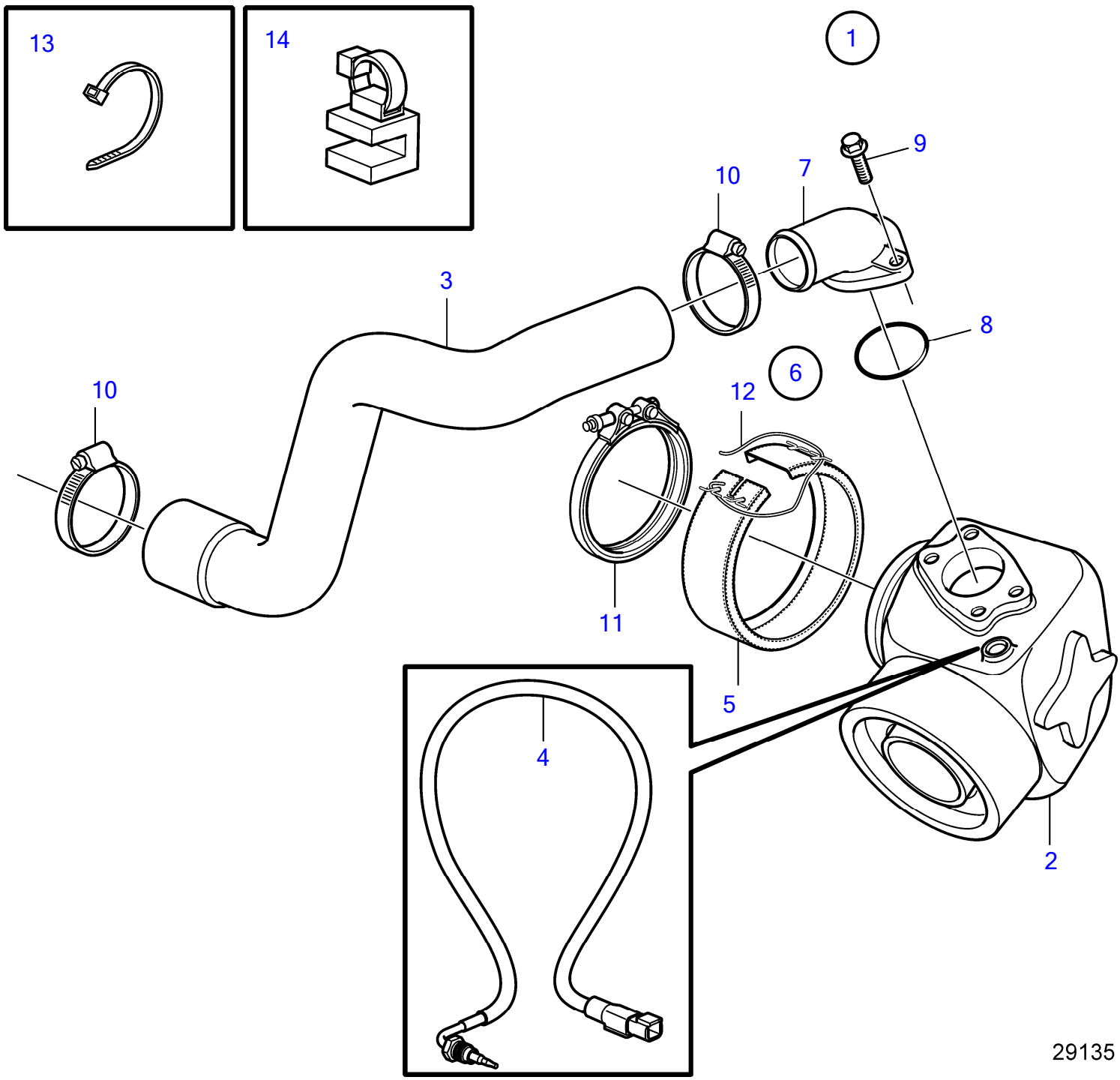
D4-260D-F, D4-300D-F



D4-260D-F, D4-300D-F

REF	PART NO.	QTY	DESCRIPTION	SEE SEC.	NOTES
1		1	Exhaust riser		
2	21700016	1	· Exhaust riser		Replaced by 21002531
	22291209	1	· Exhaust riser		Replaced by 22671223
	22671223	1	· Exhaust riser kit		With insulation
3	3584486		· · Isolation		(21700016, 22291209)
4		X	· · Locking wire		(21700016, 22291209)
5	3817198	1	· Isolation		
6	22132147	1	· Hose		
7	(3887043)	1	· Kit		Obsolete part
8	941710	X	· · Locking wire		
9	21325765	1	· · V-clamp		
10	961672	2	· · Hose clamp		
11	21673187	1	Temperature sensor		
			· Installation Instruction 47703789	47703789-EN	Sensor

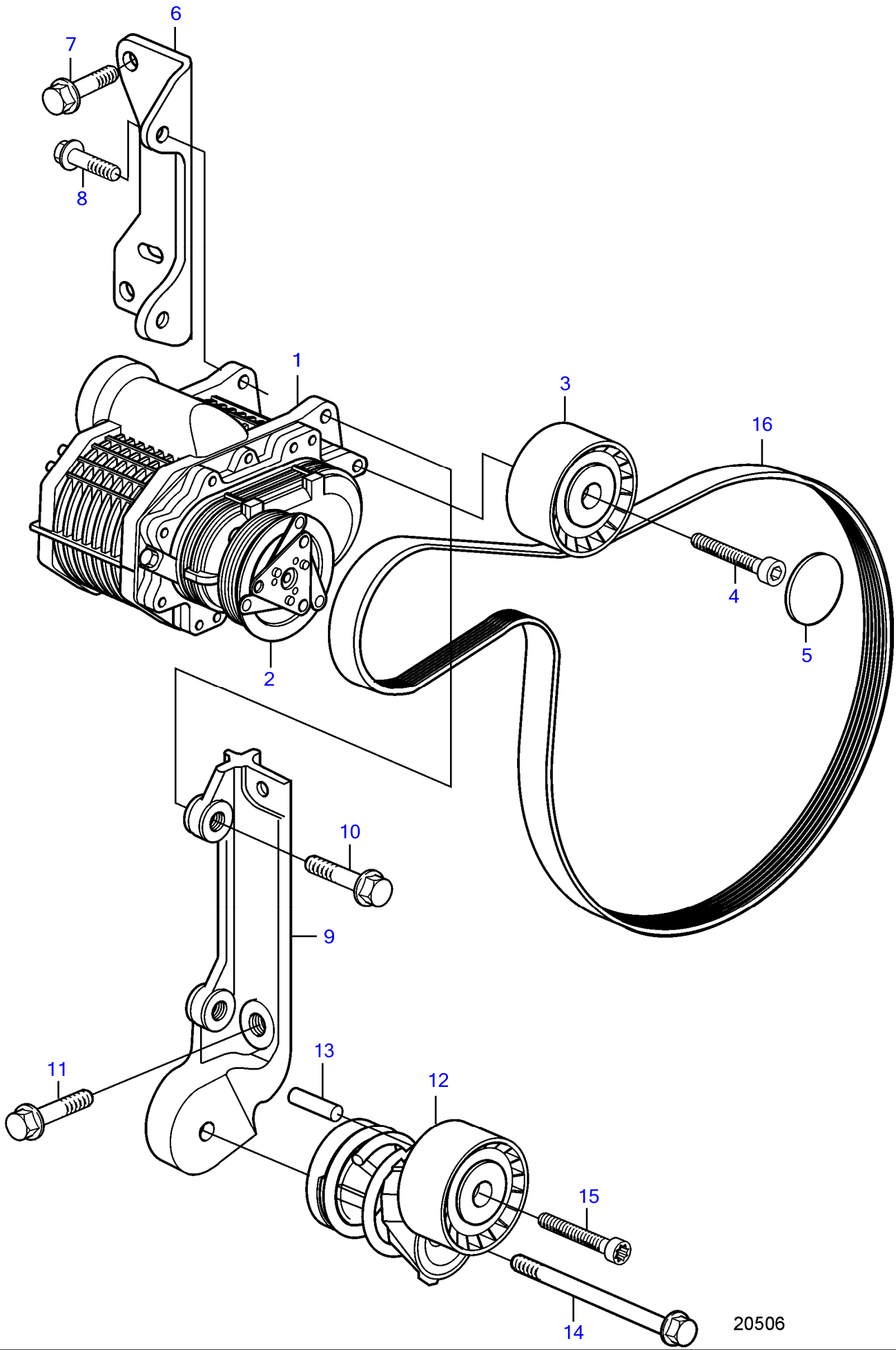
D4-260D-F, D4-300D-F



D4-260D-F, D4-300D-F

REF	PART NO.	QTY	DESCRIPTION	SEE SEC.	NOTES
1		1	Exhaust pipe kit		
2	21700012	1	· Exhaust riser		
3	3809100	1	· Hose		
4	21673187	1	· Temperature sensor		
			· Installation Instruction 47703789	47703789-EN	Sensor
5	3817198	1	· Isolation		
6		1	· Kit		
7	21450768	1	· · Connector		
8	969415	1	· · O-ring		
9	948356	2	· · Flange screw		
10	961672	2	· · Hose clamp		
11	21325765	1	· · V-clamp		
12	941710	X	· · Locking wire		L=400mm
13	948211	1	· · Cable tie		
14	(25375491)	1	· · Cable tie		Obsolete part

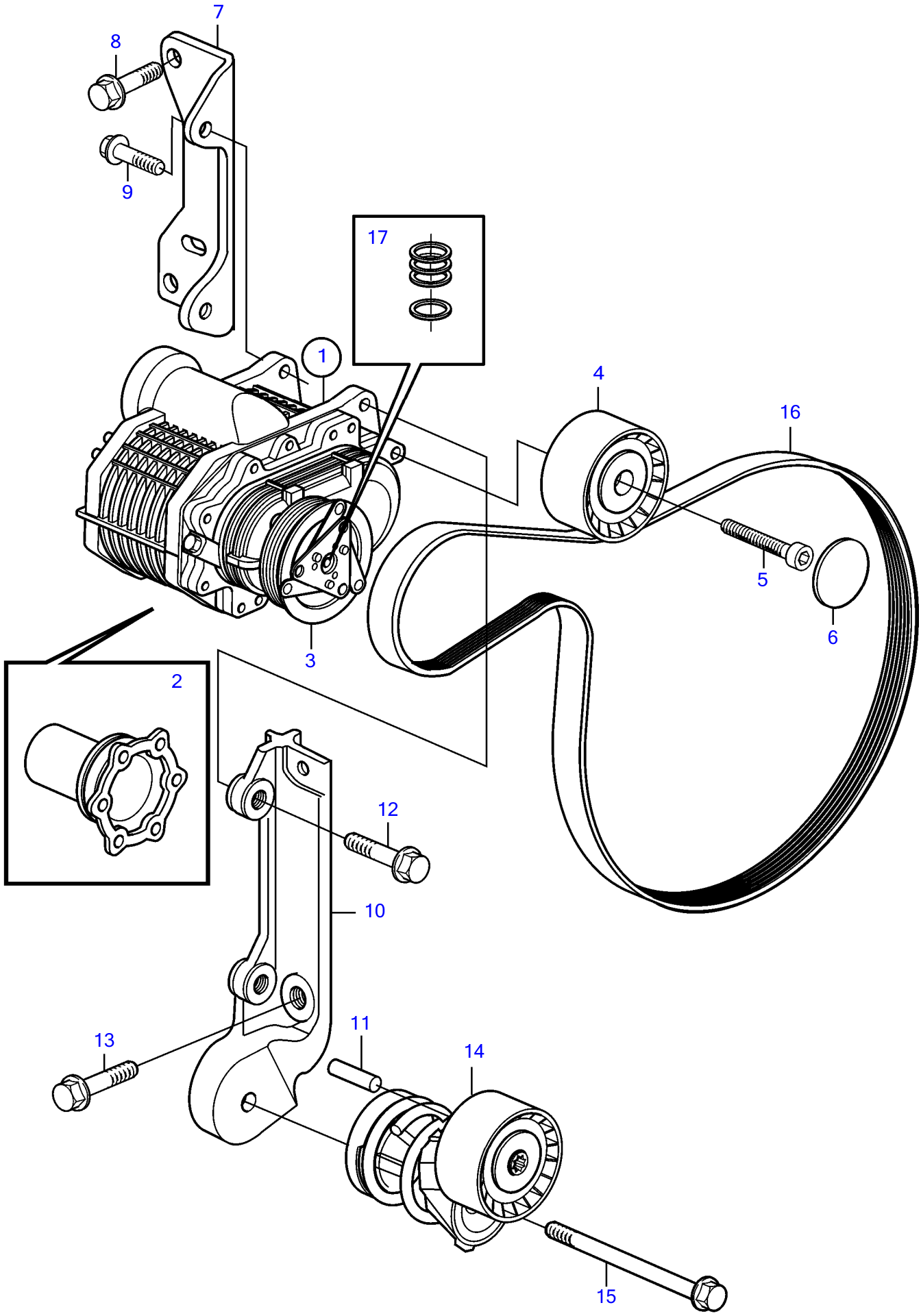
D4-260A-F, D4-260D-F



D4-260A-F, D4-260D-F

REF	PART NO.	QTY	DESCRIPTION	NOTES
1	889979	1	Supercharger	
	3803850	1	Compressor, exch, exch	
2	3581724	1	Solenoid clutch	12V, Shims are included
3	3847482	1	Idler pulley	
4	959224	1	Hex. socket screw	
5		1	Protecting cover	
6	3582971	1	Bracket	
7	946472	2	Flange screw	
8	946329	2	Flange screw	
9	3588069	1	Bracket	
10	965186	2	Flange screw	
11	946472	2	Flange screw	
12	21678750	1	Belt tensioner	
13	950542	1	Pin	
14	947790	1	Flange screw	
15		1	Allen head screw	
16	21407026	1	Belt	

D4-300A-F, D4-300D-F

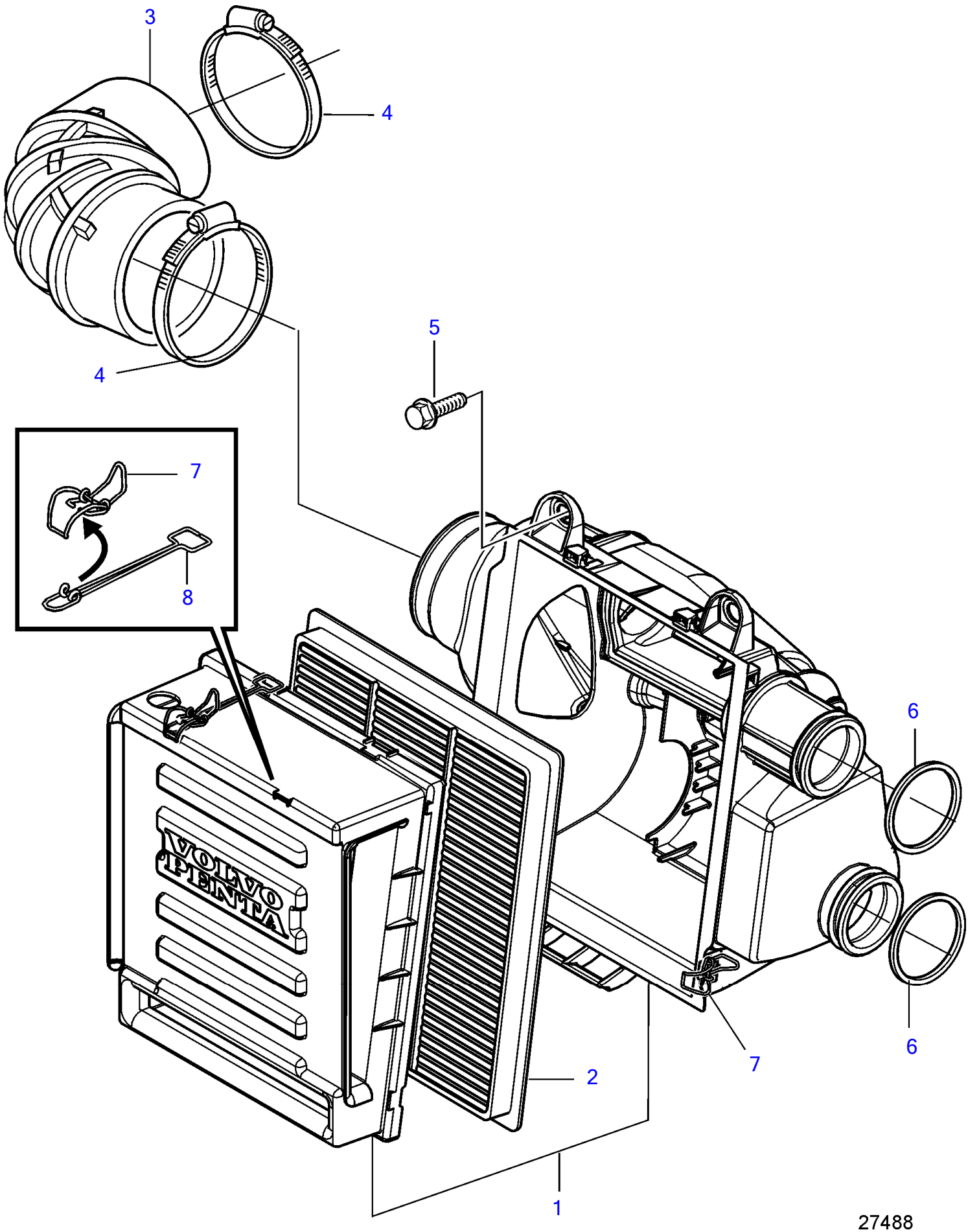


27669

D4-300A-F, D4-300D-F

REF	PART NO.	QTY	DESCRIPTION	NOTES
1	3885327	1	Supercharger	
	3801174	1	Compressor, exch, exch	
2	3581723	1	▪ Spindle	
3	21325455	1	Clutch	12V
4	3847482	1	Idler pulley	
5	959224	1	Hex. socket screw	
6		1	Protecting cover	
7	3582971	1	Bracket	
8	946472	2	Flange screw	
9	946329	2	Flange screw	
10	3588069	1	Bracket	
11	950542	1	▪ Pin	
12	965186	2	Flange screw	
13	946472	2	Flange screw	
14	21678750	1	Belt tensioner	
15	947790	1	Flange screw	
16	21405493	1	Belt	
17	22223315	1	Shim	

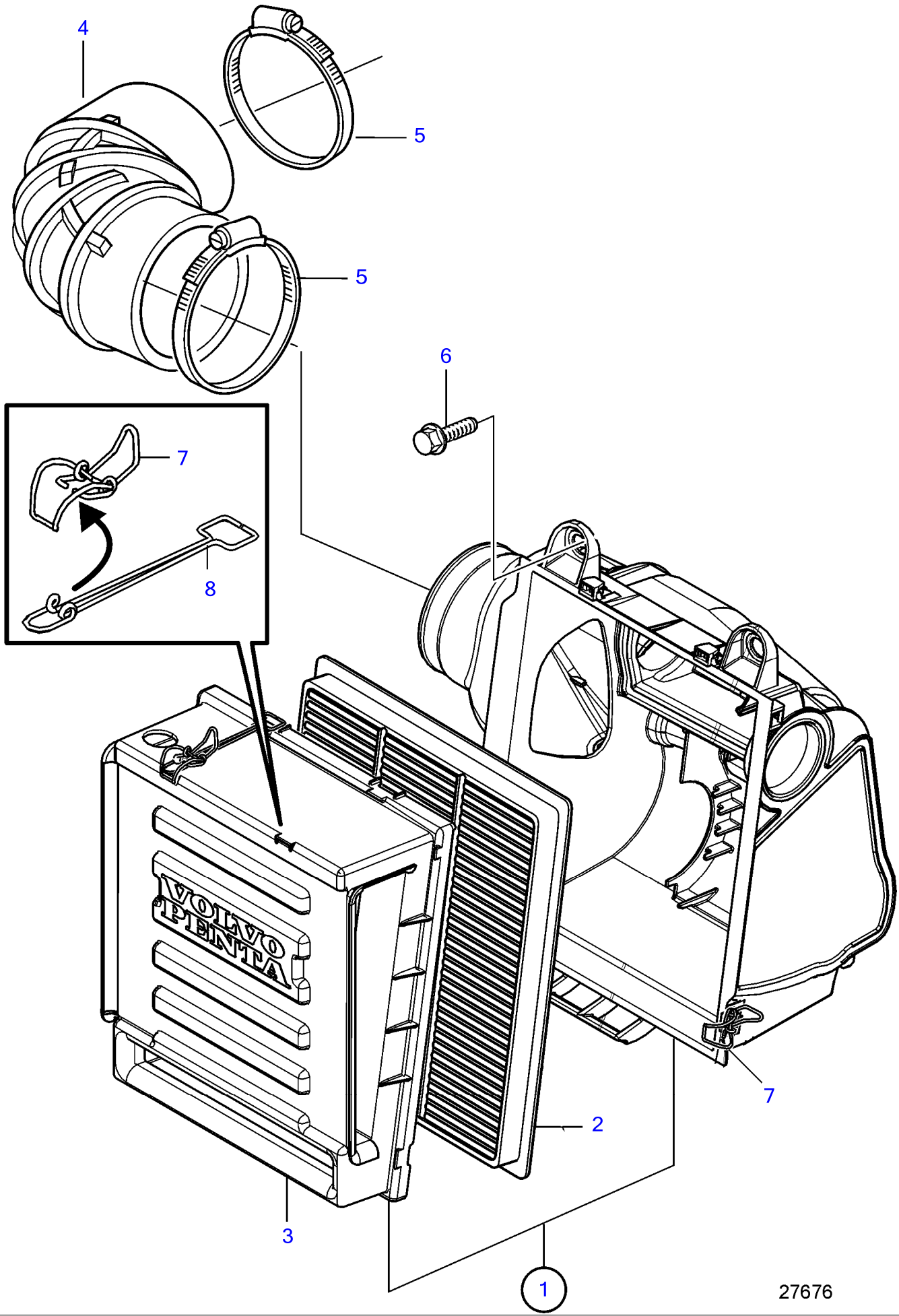
D4-225A-F, D4-260A-F, D4-260D-F, D4-300A-F, D4-300D-F



D4-225A-F, D4-260A-F, D4-260D-F, D4-300A-F, D4-300D-F

REF	PART NO.	QTY	DESCRIPTION	NOTES
1	22469302	1	Air cleaner	
2	21702999	1	Insert	
3	3587119	1	Hose	
4	982694	2	Hose clamp	
5	945444	2	Flange screw	
6	864722	2	Sealing ring	Earlier production
7	22428297	4	Anchorage	
8	22428286	2	Extension	

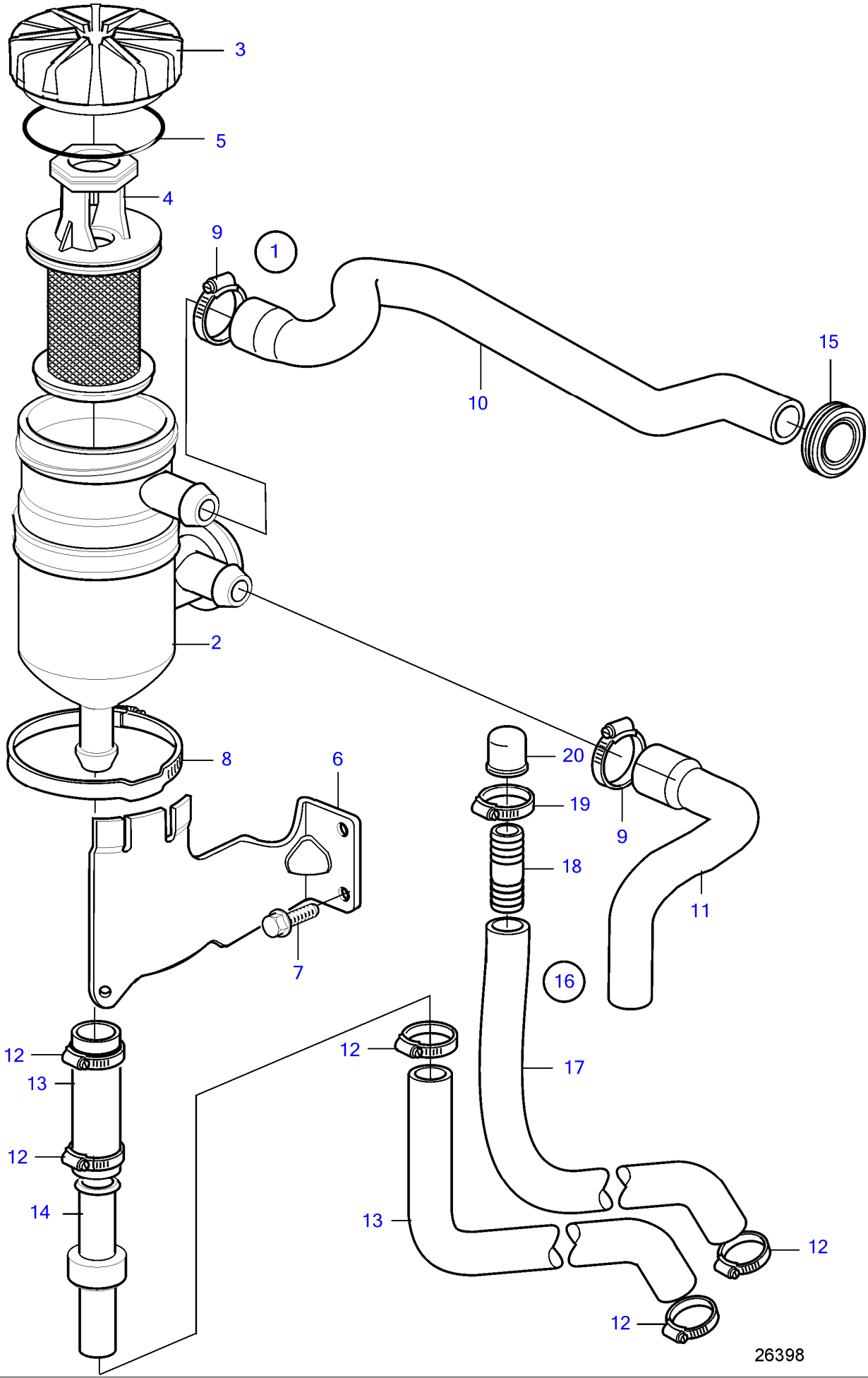
D4-180I-F, D4-225I-F, D4-260D-F, D4-300I-F



D4-180I-F, D4-225I-F, D4-260D-F, D4-300I-F

REF	PART NO.	QTY	DESCRIPTION
1	3595019	1	Air cleaner
2	21702999	1	· Insert
3	3817477	1	· Cardboard tube
4	3584004	1	Hose
5	982694	2	Hose clamp
6	945444	2	Flange screw
7	22428297	4	Anchorage
8	22428286	2	Extension

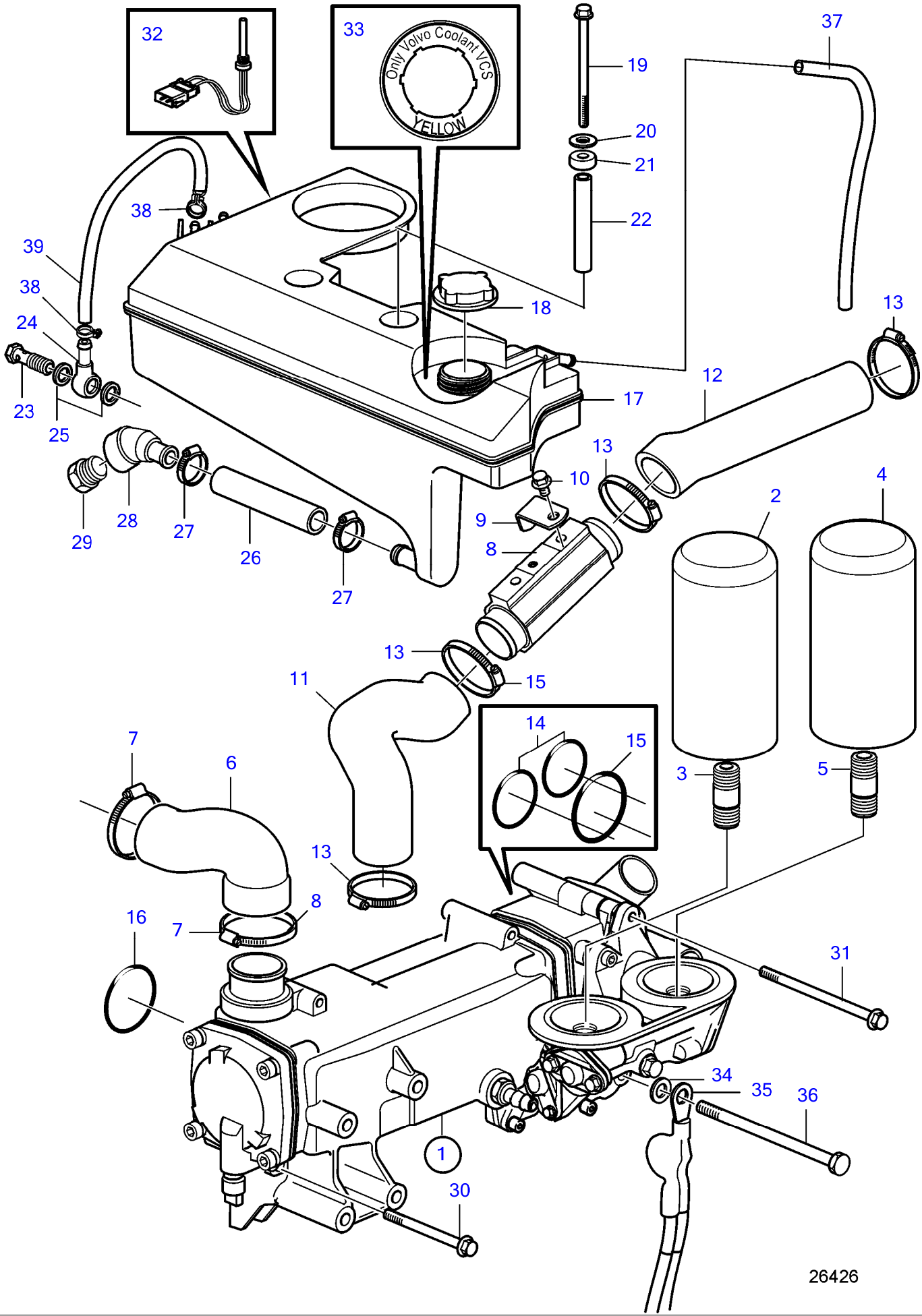
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D4-180I-F, D4-225A-F, D4-225I-F, D4-260A-F, D4-260D-F, D4-260I-F, D4-300A-F, D4-300D-F, D4-300I-F

REF	PART NO.	QTY	DESCRIPTION
1	3584144	1	Filter
2		1	・Reservoir
3		1	・Lock
4	3584145	1	・Insert
5	3584461	1	・・O-ring
6	21660058	1	Bracket
7	946440	2	Flange screw
8	3586117	1	Hose clamp
9	994559	2	Hose clamp
10	21677715	1	Hose
11	21675637	1	Hose
12	961664	5	Hose clamp
13	3885542	1	Hose
14	3887102	1	Check valve
15	984951	1	Grommet
16	3849236	1	Hose assembly
17	3885542	1	・Hose
18	991127	1	・Hose nipple
19	978174	1	・Hose clamp
20	842235	1	・Cardboard tube

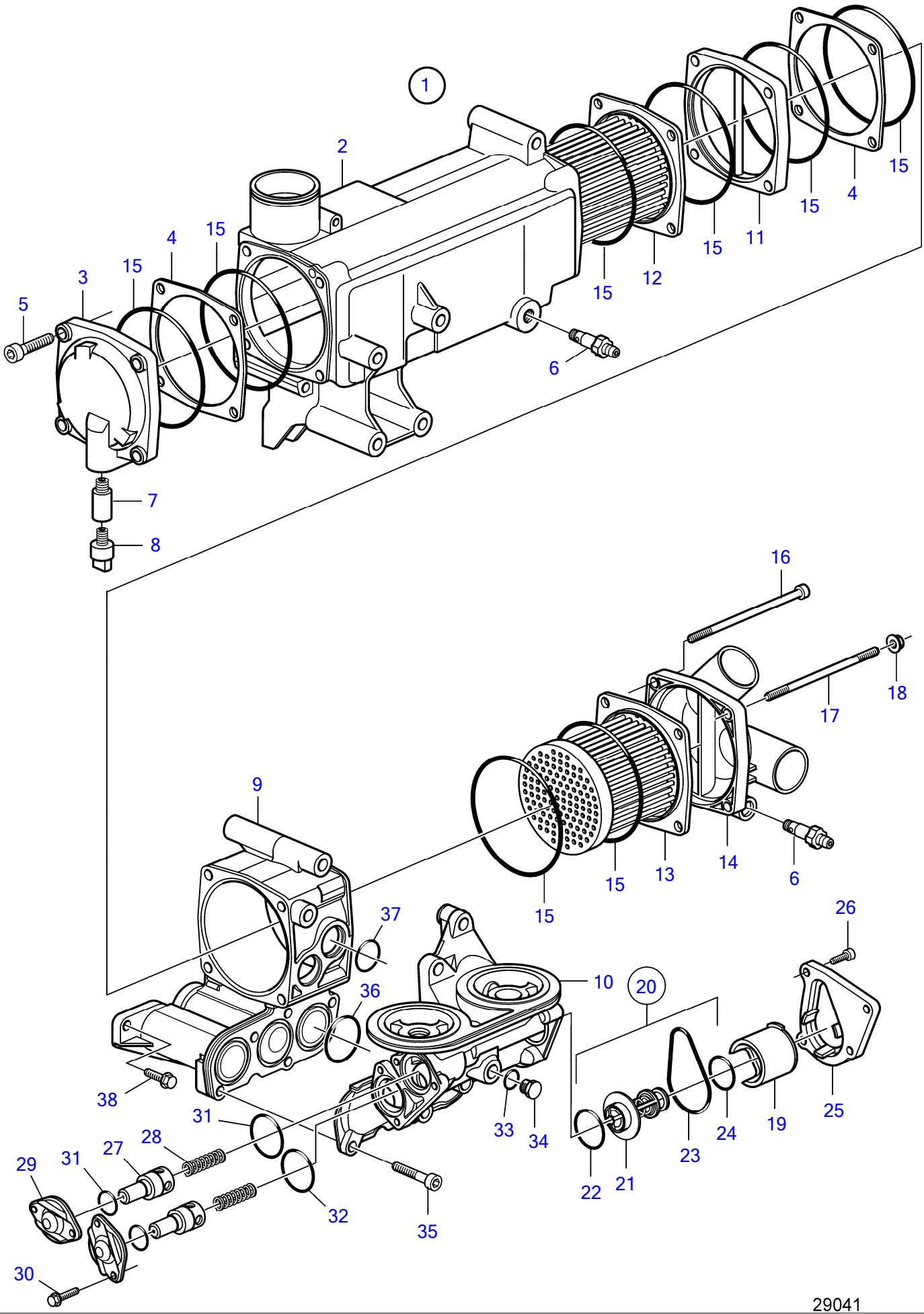
D4-180I-F, D4-225A-F, D4-225I-F, D4-260A-F, D4-260D-F, D4-260I-F, D4-300A-F, D4-300D-F, D4-300I-F



D4-180I-F, D4-225A-F, D4-225I-F, D4-260A-F, D4-260D-F, D4-260I-F, D4-300A-F, D4-300D-F, D4-300I-F

REF	PART NO.	QTY	DESCRIPTION	SEE SEC.	NOTES
1	40005711	1	Heat exchanger		Replaced by 22369738
			▪	35207	
	22369738	1	Heat exchanger		
			▪	35207	
	22866542	1	Heat exchanger		SN-A407905
	22437222	1	Heat exchanger		SNA407906-
2	21632901	1	Oil filter		By pass
3	423067	1	Nipple		
4	3582732	1	Oil filter		Full flow.
5	3583695	1	Nipple		
6	3808093	1	Hose		
7	60111132	2	Hose clamp		
8	40005787	1	Fuel cooler		
9	21107541	1	Bracket		
10	946025	1	Flange screw		
11	21368514	1	Hose		
12	3583011	1	Hose		
13	994564	4	Hose clamp		
14	949722	2	O-ring		
15	976041	1	O-ring		
16	969415	1	O-ring		
17	21140007	1	Expansion tank		
18	1674083	1	Pressure cap		
19	965184	2	Flange screw		L=100mm
20	976944	2	Washer		
21	3285120	2	Spacer sleeve		
22	3583863	2	Spacer sleeve		
23	969299	1	Hollow screw		
24	858750	1	Banjo nipple		
25	11994	2	Gasket		
26	952969	1	Hose		
27	994557	2	Hose clamp		
28	3808586	1	T-nipple		
29	479956	1	Plug		
30	965184	4	Flange screw		
31	968893	1	Flange screw		
32	3547710	1	Level guard		
33	21506995	1	Label		
34	955894	1	Washer		
35	21923306	1	Wiring harness kit	37264	
36	980103	1	Hexagon screw		
37	942754	1	Hose		
38	975270	2	Hose clamp		
39	942700	X	Hose		

D4-180I-F, D4-225A-F, D4-225I-F, D4-260A-F, D4-260D-F, D4-260I-F, D4-300A-F, D4-300D-F, D4-300I-F

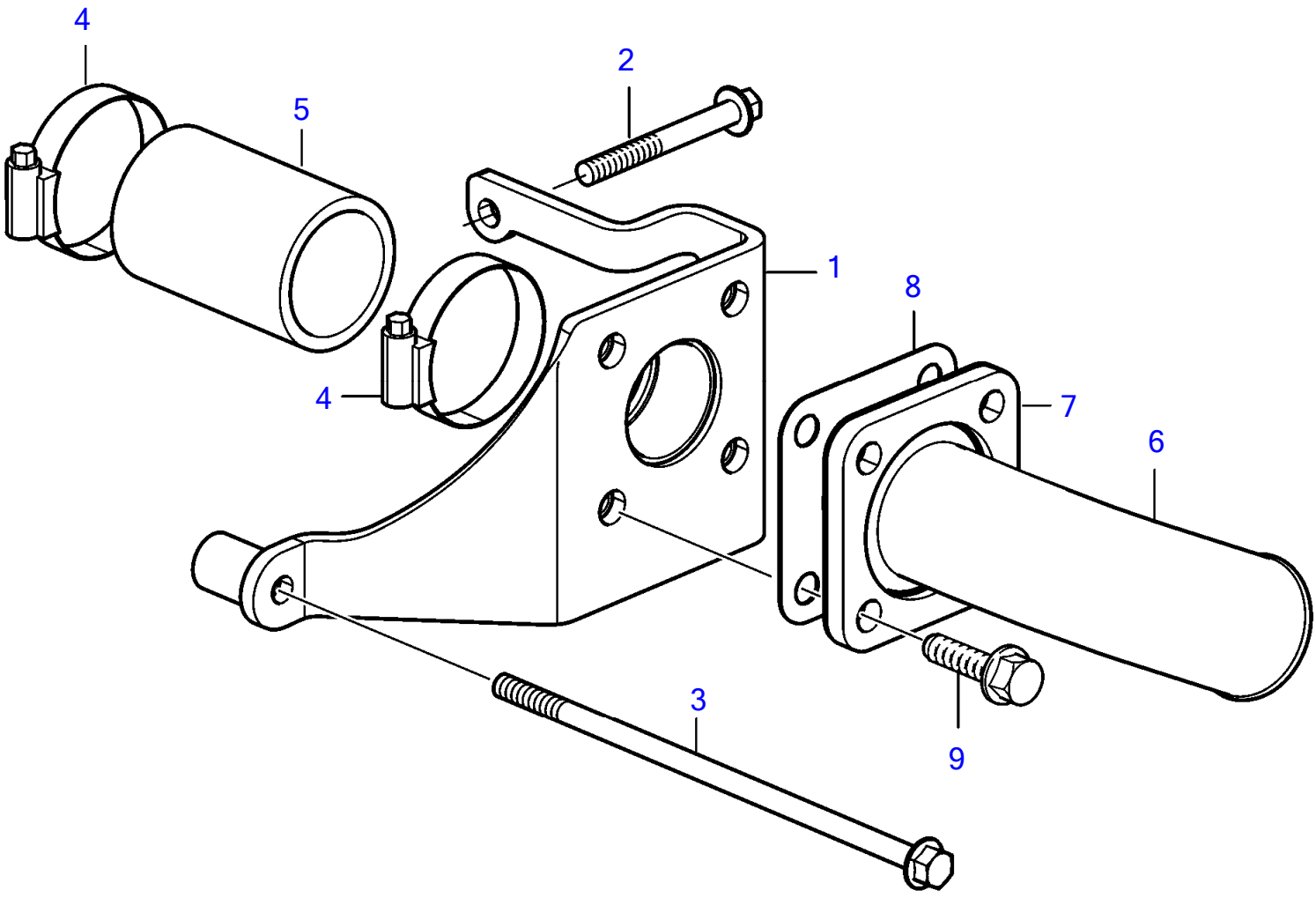


29041

D4-180I-F, D4-225A-F, D4-225I-F, D4-260A-F, D4-260D-F, D4-260I-F, D4-300A-F, D4-300D-F, D4-300I-F

REF	PART NO.	QTY	DESCRIPTION	NOTES
1	40005711	1	Heat exchanger	Replaced by 22369738
	22369738	1	Heat exchanger	Replaced
	22866542		Heat exchanger	SN-A407905
	22437222		Heat exchanger	SNA407906-
2	(3812561)	1	· Housing	Obsolete part
			· Housing	SN-A407905
			· Housing	SNA407906-
3	3583641	1	· End cover	SN-A407905
	22441904		· End cover	SNA407906-
4	3583646	2	· Spacer	SN-A407905
			· Spacer	SNA407906-
5	959223	4	· Hex. socket screw	
6	3583822	2	· Draining nipple	
7	838929	1	· Anode	SN-A407905
8	838928	1	· Plug	
9	40005783	1	· Housing	(3583643)
10	3584419	1	· Housing	
11	3583642	1	· Spacer	
12	3583644	1	· Tube	
13	40005784	1	· Tube	(40005780)
14	22369744	1	· End cover	
15	3583647	8	· O-ring	
16	21122819	2	· Hex. socket screw	
17	3583650	2	· Stud	
18	945408	2	· Flange nut	
19	3583829	1	· Retainer	
20	3588437	1	· Kit	
21	3583827	1	· · Thermostat	Including in kit 3588437
22	3583830	1	· · O-ring	
23	3583831	1	· · O-ring	
24	3583832	1	· · O-ring	
25	3583828	1	· Cover	
26	947542	4	· Flange screw	
27	21068158	2	· Reduction valve	(471706)
28	469332	2	· · Spring	
29	471648	2	· Cover	
30	947542	4	· Flange screw	
31	469846	2	· Sealing ring	
32	982193	2	· O-ring	
33	947282	1	· Gasket	
34	960629	1	· Plug	
35	959222	5	· Hex. socket screw	
36	866690	3	· O-ring	
37	3885174	2	· O-ring	
38	945444	3	Flange screw	

D4-180I-F, D4-225I-F, D4-260I-F, D4-300I-F

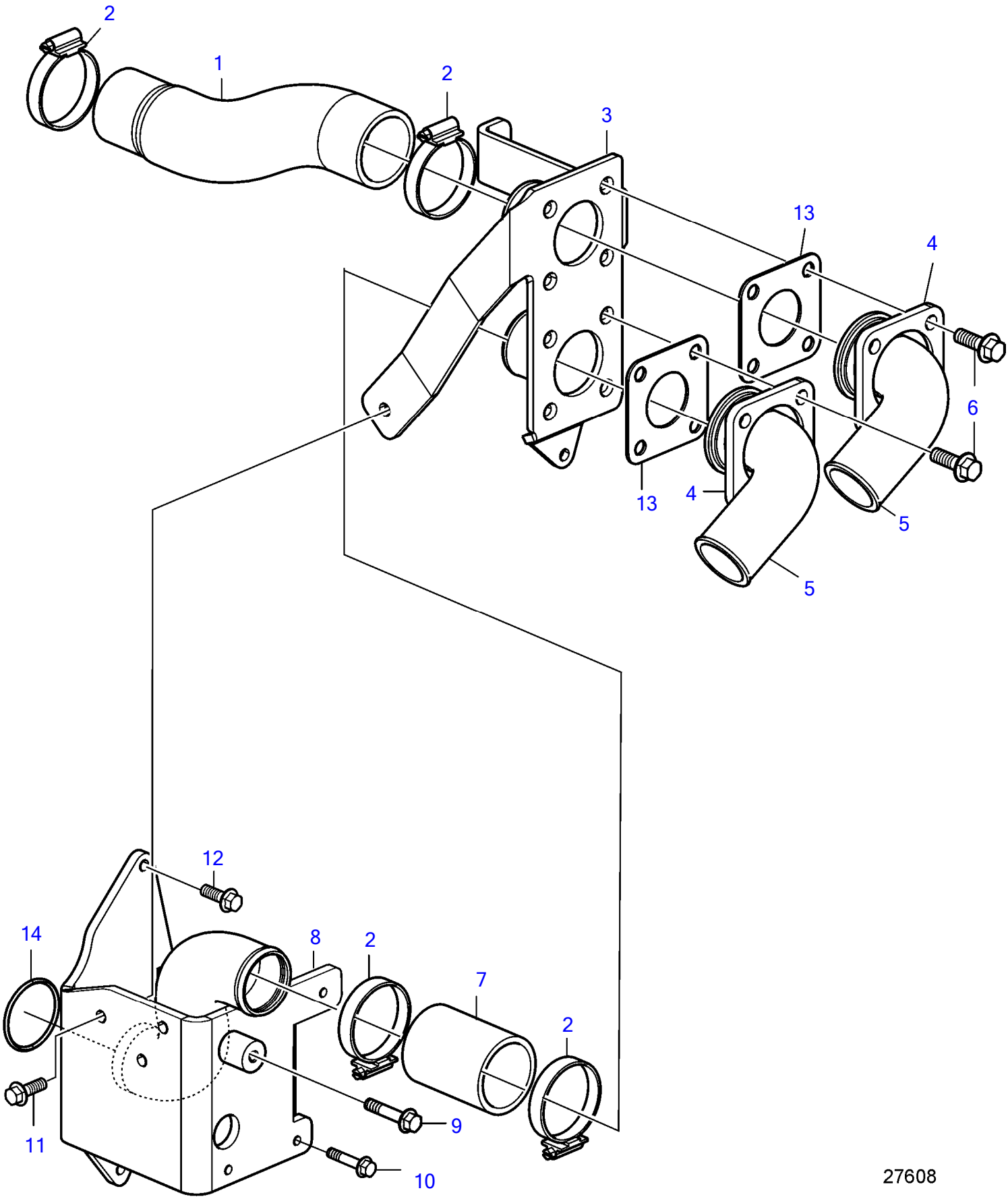


27607

D4-180I-F, D4-225I-F, D4-260I-F, D4-300I-F

REF	PART NO.	QTY	DESCRIPTION	NOTES
1	22276739	1	Bracket	
2	984741	2	Flange screw	
3	980178	1	Flange screw	
4	994563	2	Hose clamp	
5	943370	X	Rubber hose	L=80mm
6	848596	1	Hose attachment	
7	842029	1	Flange	
8	3888837	1	Gasket	
9	990861	4	Flange screw	

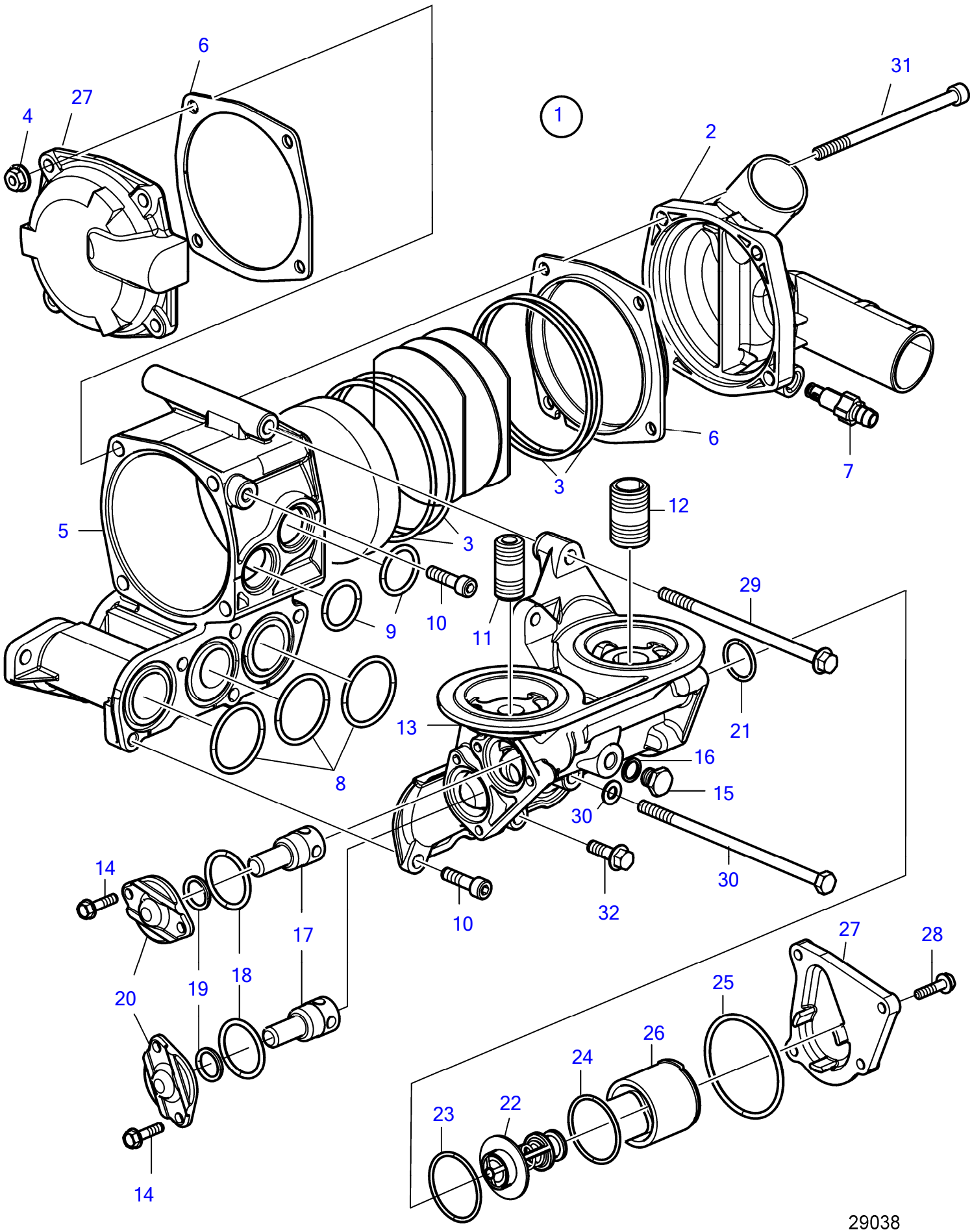
D4-180I-F, D4-225I-F, D4-260I-F, D4-300I-F



D4-180I-F, D4-225I-F, D4-260I-F, D4-300I-F

REF	PART NO.	QTY	DESCRIPTION
1	22276765	1	Hose
2	60111132	4	Hose clamp
3	22276741	1	Bracket
4	842029	2	Flange
5	848596	2	Hose attachment
6	969445	8	Flange screw
7	992129	1	Rubber hose
8	22212804	1	Bracket
9	947760	1	Flange screw
10	946470	3	Flange screw
11	945444	1	Flange screw
12	945444	4	Flange screw
13	3888837	2	Gasket
14	969415	1	O-ring

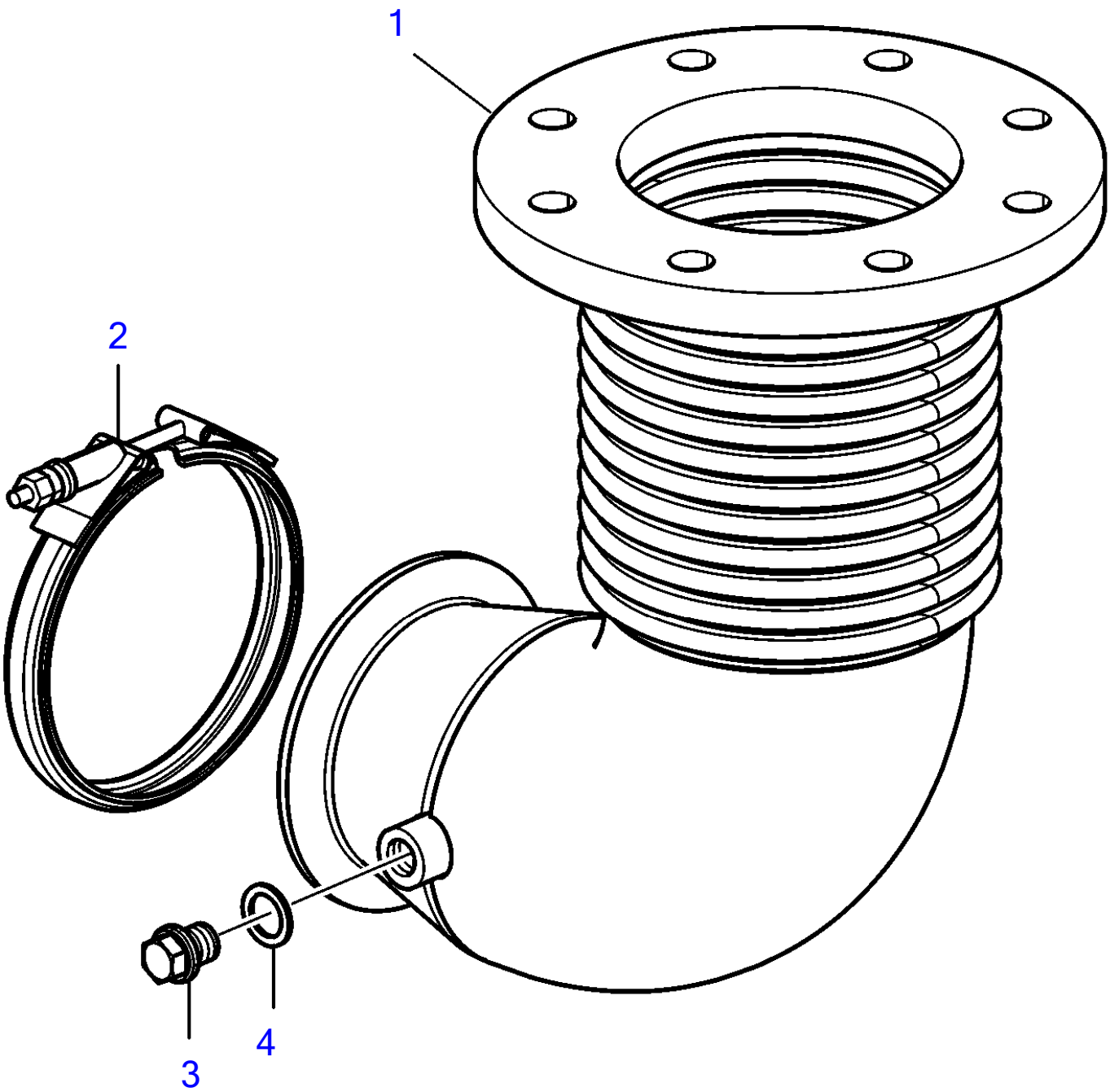
D4-180I-F, D4-225I-F, D4-260I-F, D4-300I-F



D4-180I-F, D4-225I-F, D4-260I-F, D4-300I-F

REF	PART NO.	QTY	DESCRIPTION	NOTES
1	22212940	1	Oil cooler	
2	3595407	1	· End cover	
3	3583647	4	· O-ring	
4	945408	4	· Flange nut	
5		1	· Housing	
6	3583646	2	· Spacer	
7	3583822	1	· Draining nipple	
8	866690	3	· O-ring	
9	3885174	2	· O-ring	
10	959222	5	· Hex. socket screw	
11	423067	1	· Nipple	
12	3583695	1	· Nipple	
13	3584419	1	· Housing	
14	947542	8	· Flange screw	
15	960629	1	· Plug	
16	947282	1	· Gasket	
17	471706	2	· Reduction valve	
18	949659	2	· O-ring	
19	469846	2	· Sealing ring	
20	471648	2	· Cover	
21	3588437	1	· Kit	
22	3583827	1	· · Thermostat	Including in kit 3588437
23	3583830	1	· · O-ring	
24	3583831	1	· · O-ring	
25	3583832	1	· · O-ring	
26	3583829	1	· Retainer	
27	3583828	1	· Cover	
28			· Spacer	
29	968893	1	Flange screw	
30	955894	1	Washer	
31	980103	1	Hexagon screw	
32		1	Flange screw	

D4-180I-F, D4-225I-F, D4-260I-F, D4-300I-F

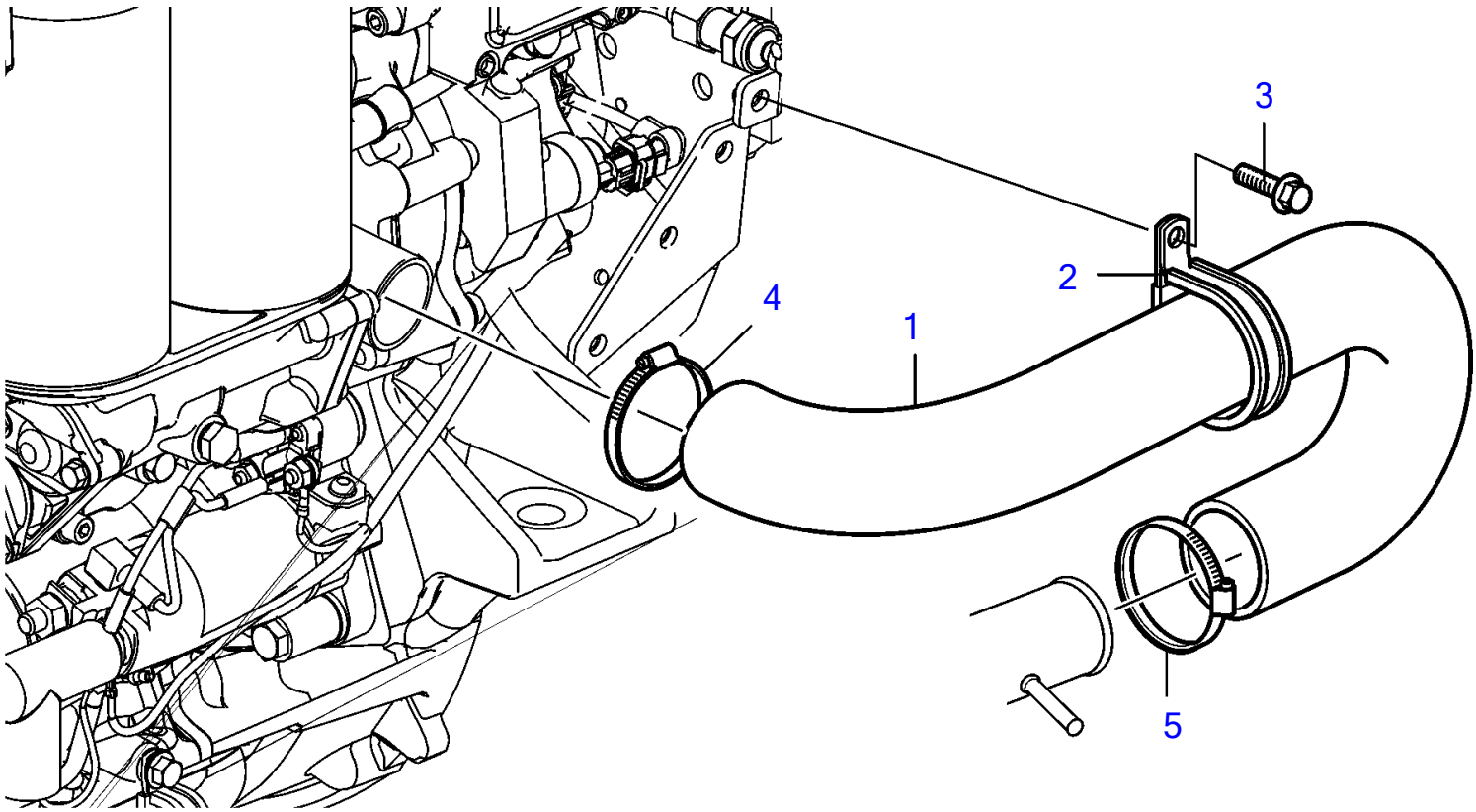


27611

D4-180I-F, D4-225I-F, D4-260I-F, D4-300I-F

REF	PART NO.	QTY	DESCRIPTION
1	22307939	1	Exhaust riser
2	21325765	1	V-clamp
3	20555025	1	Plug
4	969011	1	Gasket

D4-225A-F, D4-260A-F, D4-300A-F

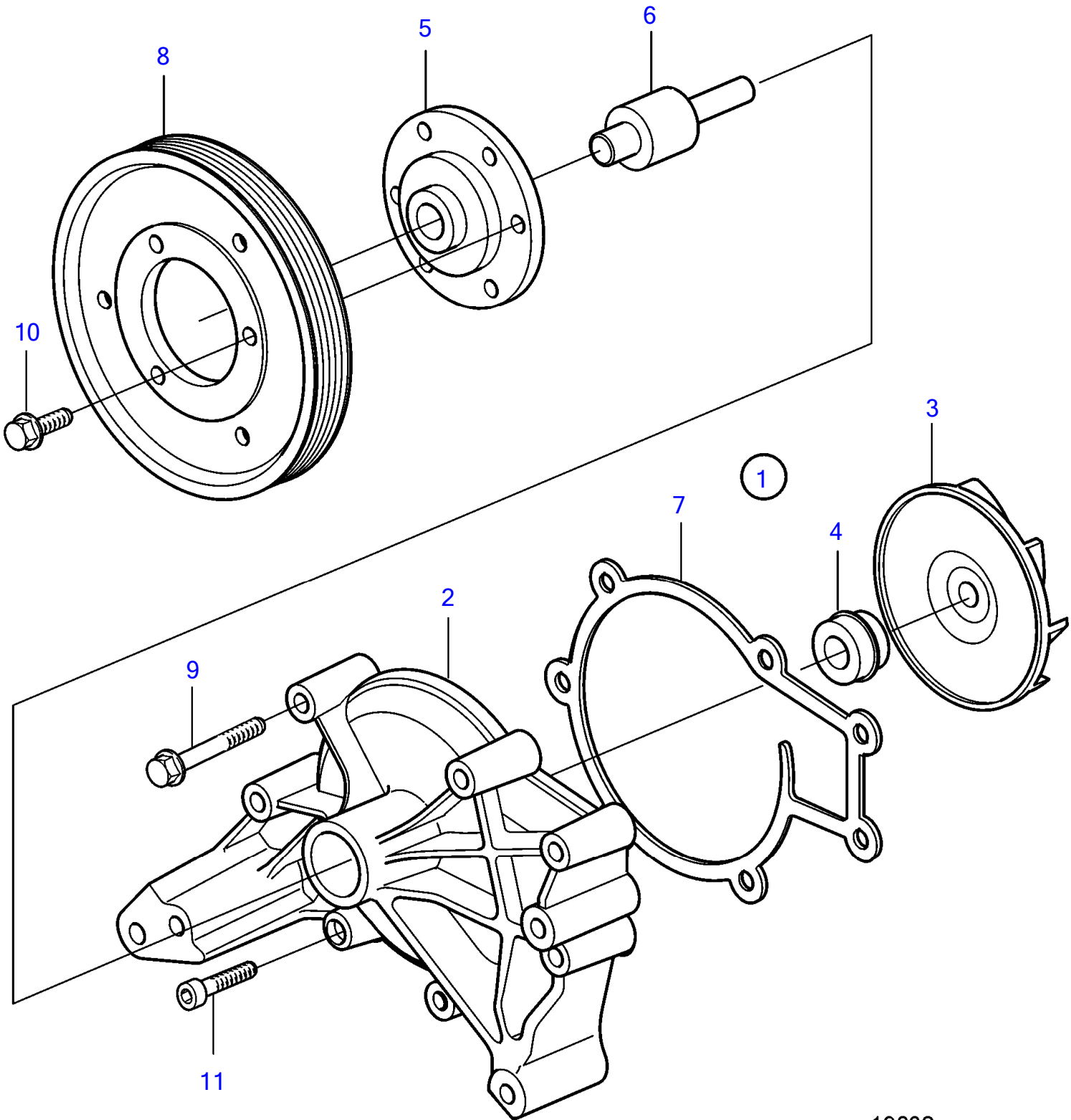


27610

D4-225A-F, D4-260A-F, D4-300A-F

REF	PART NO.	QTY	DESCRIPTION
1	22318366	1	Hose
2	969354	1	Clamp
3	984733	1	Flange screw
4	994564	1	Hose clamp
5	994563	1	Hose clamp

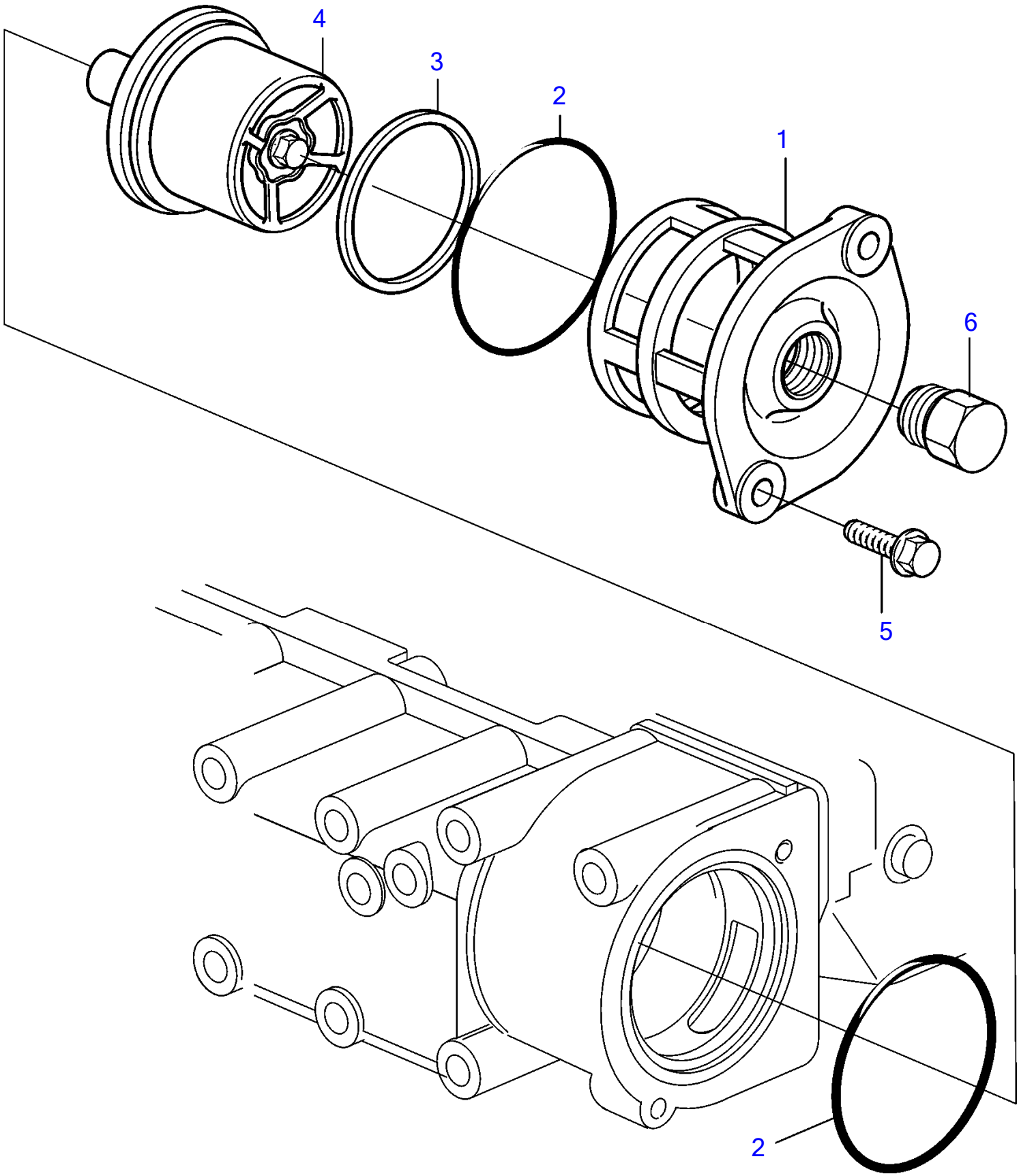
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D4-180I-F, D4-225A-F, D4-225I-F, D4-260A-F, D4-260D-F, D4-260I-F, D4-300A-F, D4-300D-F, D4-300I-F

REF	PART NO.	QTY	DESCRIPTION	NOTES
1	3801313	1	Coolant pump, exch	Replaced by 3801650
	3801650	1	Coolant pump, exch	
	22577750	1	Coolant pump	
2		1	· Coolant pump housing	
3		1	· Impeller	
4	3582673	1	· Sealing ring	
5		1	· Hub	
6		1	· Shaft	
7	3818912	1	Gasket	
8	3582281	1	Pulley	
9	994441	6	Flange screw	L=50mm
10	946173	3	Flange screw	L=20mm
11	959223	1	Hex. socket screw	L=30mm

D4-180I-F, D4-225A-F, D4-225I-F, D4-260A-F, D4-260D-F, D4-260I-F, D4-300A-F, D4-300D-F, D4-300I-F

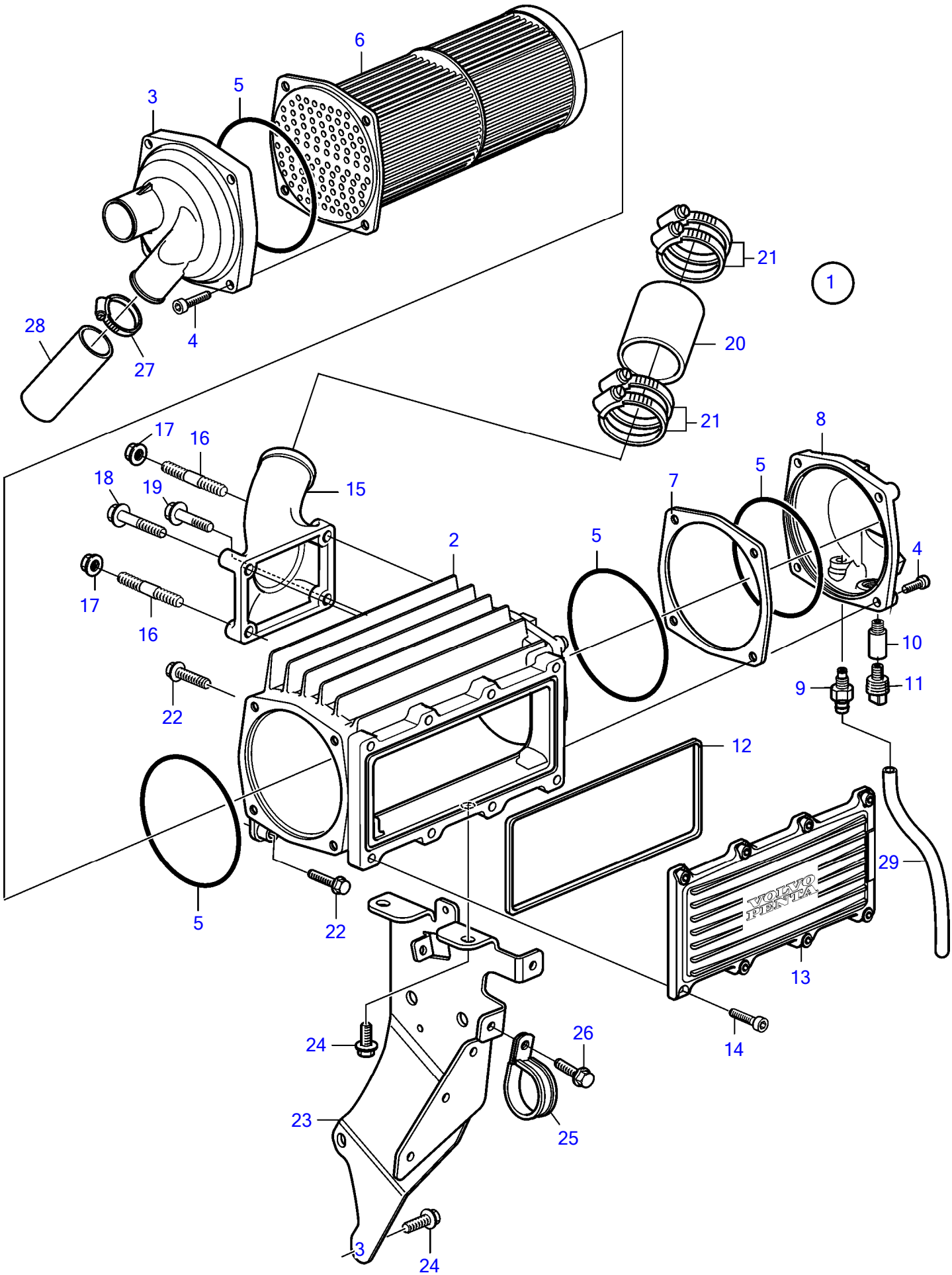


19953

D4-180I-F, D4-225A-F, D4-225I-F, D4-260A-F, D4-260D-F, D4-260I-F, D4-300A-F, D4-300D-F, D4-300I-F

REF	PART NO.	QTY	DESCRIPTION	NOTES
1	888456	1	Thermostat housing	
2	945512	2	O-ring	
3	1544710	1	Sealing ring	
4	8149182	1	Thermostat	
5	945444	2	Flange screw	L=25mm
6	479956	1	Plug	1/2NPTF x 19

D4-180I-F, D4-225A-F, D4-225I-F, D4-260A-F, D4-260D-F, D4-260I-F

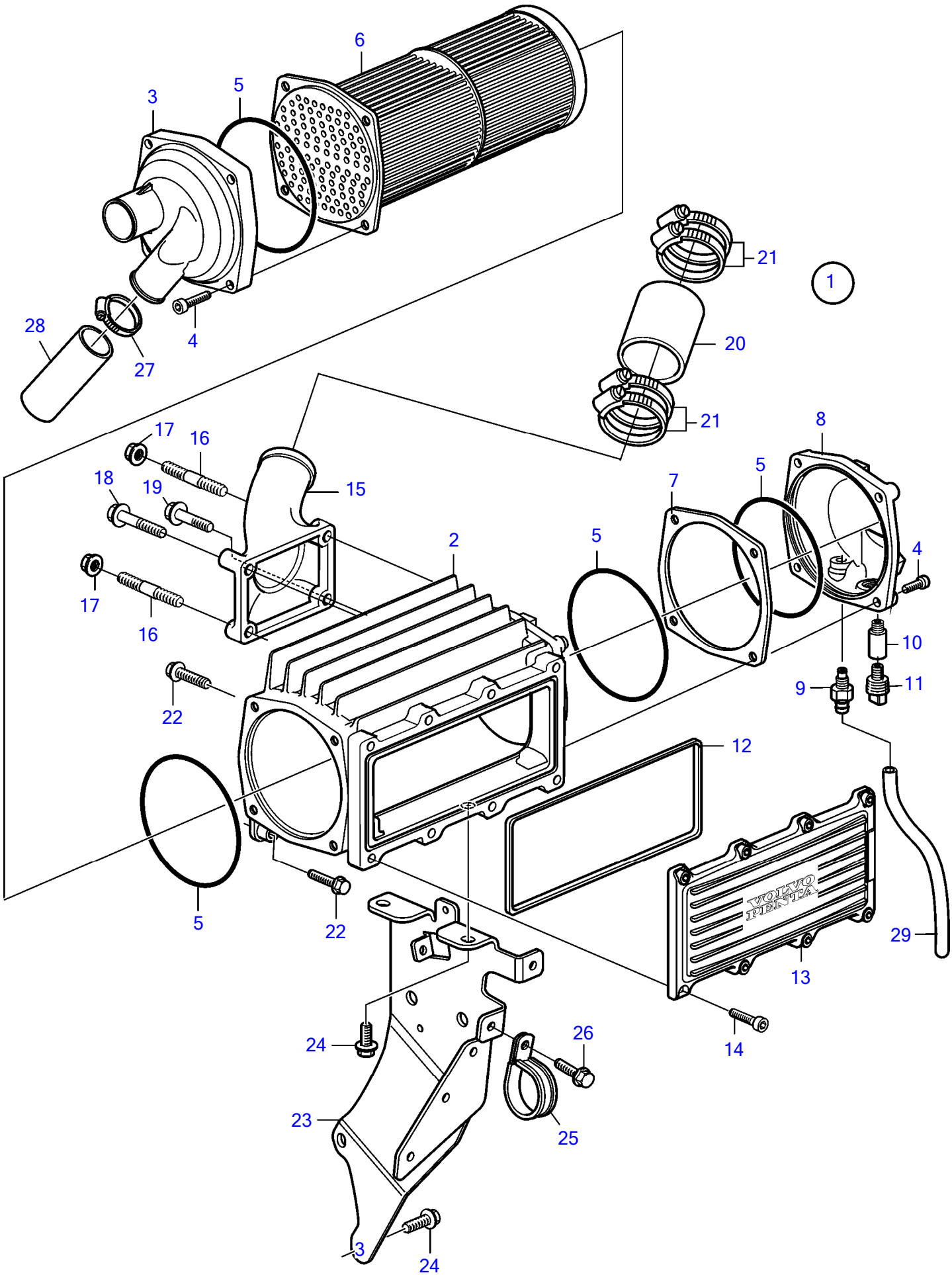


26790

D4-180I-F, D4-225A-F, D4-225I-F, D4-260A-F, D4-260D-F, D4-260I-F

REF	PART NO.	QTY	DESCRIPTION	NOTES
1	3582300	1	Intercooler	
	22092525	1	Intercooler	
	22437210	1	Intercooler	
2	21692360	1	· Housing	
3	3583628	1	· Cover	
	22092538	1	· Cardboard tube	For 22092525, For 22437210
4	3838337	8	· Screw	
	21787133	8	· Screw	For 22437210
5	3838406	4	· O-ring	
6	3583638	1	· Tube	
7	3838407	1	· Spacer	
8	3583629	1	· Cover	
	21687551	1	· Cover	For 22437210
9	3583822	1	· Draining nipple	
10	838929	1	· Anode	
11	838928	1	· Plug	
12	3583634	1	· Gasket	
13	3583633	1	· Cover	
14	3583635	8	· Screw	
15	3582786	1	Connection pipe	
16	953049	2	Stud	
17	945408	2	Flange nut	
18	965216	1	Flange screw	
19	947760	1	Flange screw	
20	865747	1	Hose	
21	994565	2	Hose clamp	
22	973924	4	Flange screw	
23	3848536	1	Bracket	
24	946173	5	Flange screw	
25	984474	2	Clamp	
26	946440	2	Flange screw	
27	943478	2	Hose clamp	
28	943370	1	Rubber hose	L=50mm
29	942754	1	Hose	

D4-300A-F, D4-300D-F, D4-300I-F

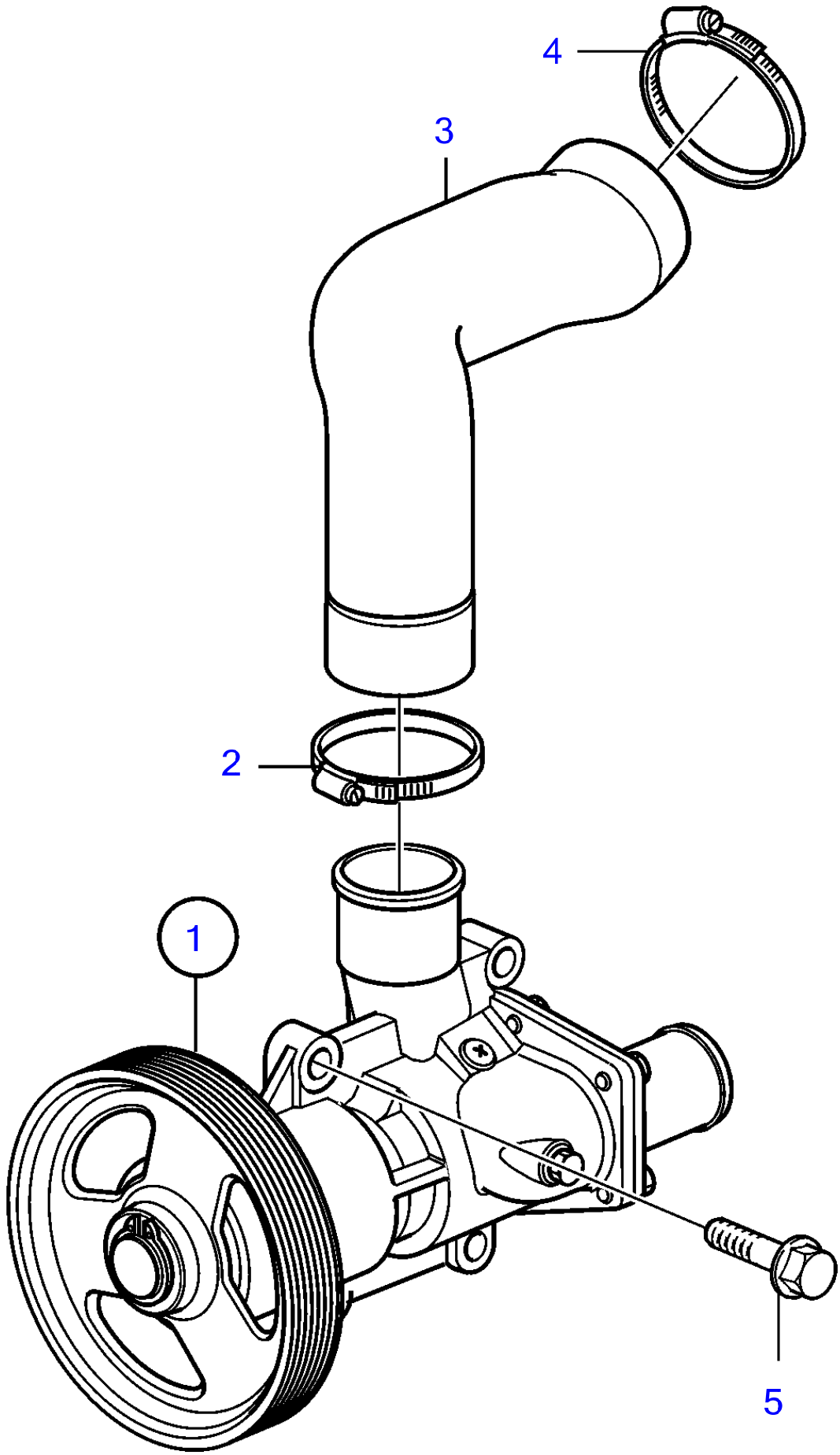


24363

D4-300A-F, D4-300D-F, D4-300I-F

REF	PART NO.	QTY	DESCRIPTION	NOTES
1	3885354	1	Intercooler	
	22092529	1	Intercooler	
	21781663	1	Intercooler	
2	21692360	1	· Housing	
3	3583628	1	· Cover	
	22092538	1	· Cardboard tube	For 22092529, For 21781663
4	3838337	8	· Screw	
5	3838406	4	· O-ring	
6	3808746	1	· Insert	
7	3838407	1	· Spacer	
8	3583629	1	· Cover	For 22092529
	21687551	1	· Cover	For 21781663
9	3583822	1	· Draining nipple	
10	838929	1	· Anode	
11	838928	1	· Plug	
12	3583634	1	· Gasket	
13	3583633	1	· Cover	
14	3583635	8	· Screw	
15	3582786	1	Connection pipe	
16	953049	2	Stud	
17	945408	2	Flange nut	
18	965216	1	Flange screw	
19	947760	1	Flange screw	
20	865747	1	Hose	
21	994565	2	Hose clamp	
22	973924	4	Flange screw	
23	3848536	1	Bracket	
24	946173	5	Flange screw	
25	984474	2	Clamp	
26	946440	2	Flange screw	
27	943478	2	Hose clamp	
28	943370	1	Rubber hose	L=50mm
29	942754	1	Hose	

D4-180I-F, D4-225I-F

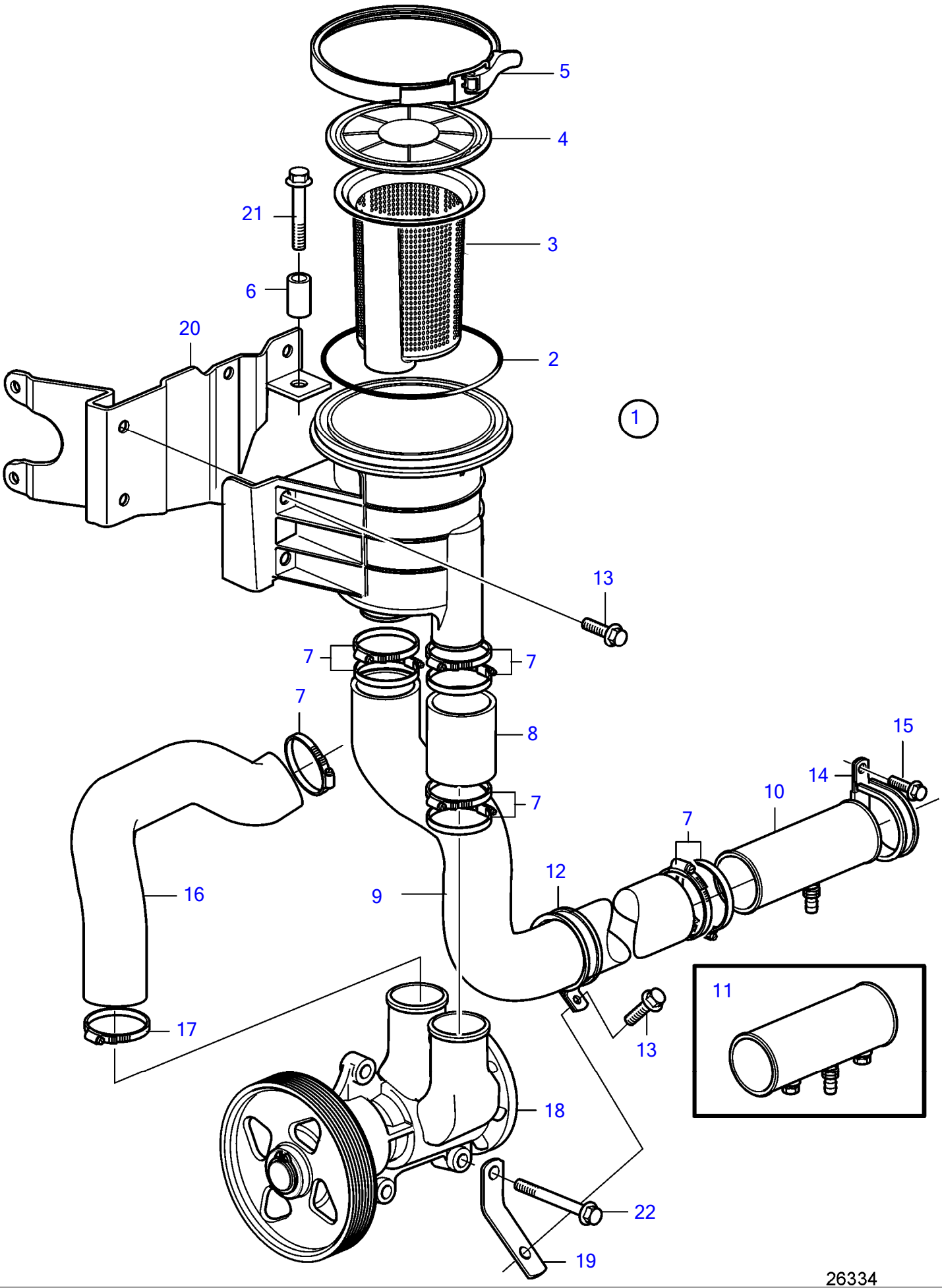


19895

D4-180I-F, D4-225I-F

REF	PART NO.	QTY	DESCRIPTION	SEE SEC.
1	3584062	1	Sea water pump	
			▪	37356
2	943478	1	Hose clamp	
3	21368514	1	Hose	
4	994564	1	Hose clamp	
5	947760	4	Flange screw	

D4-225A-F, D4-260A-F, D4-260D-F, D4-300A-F, D4-300D-F

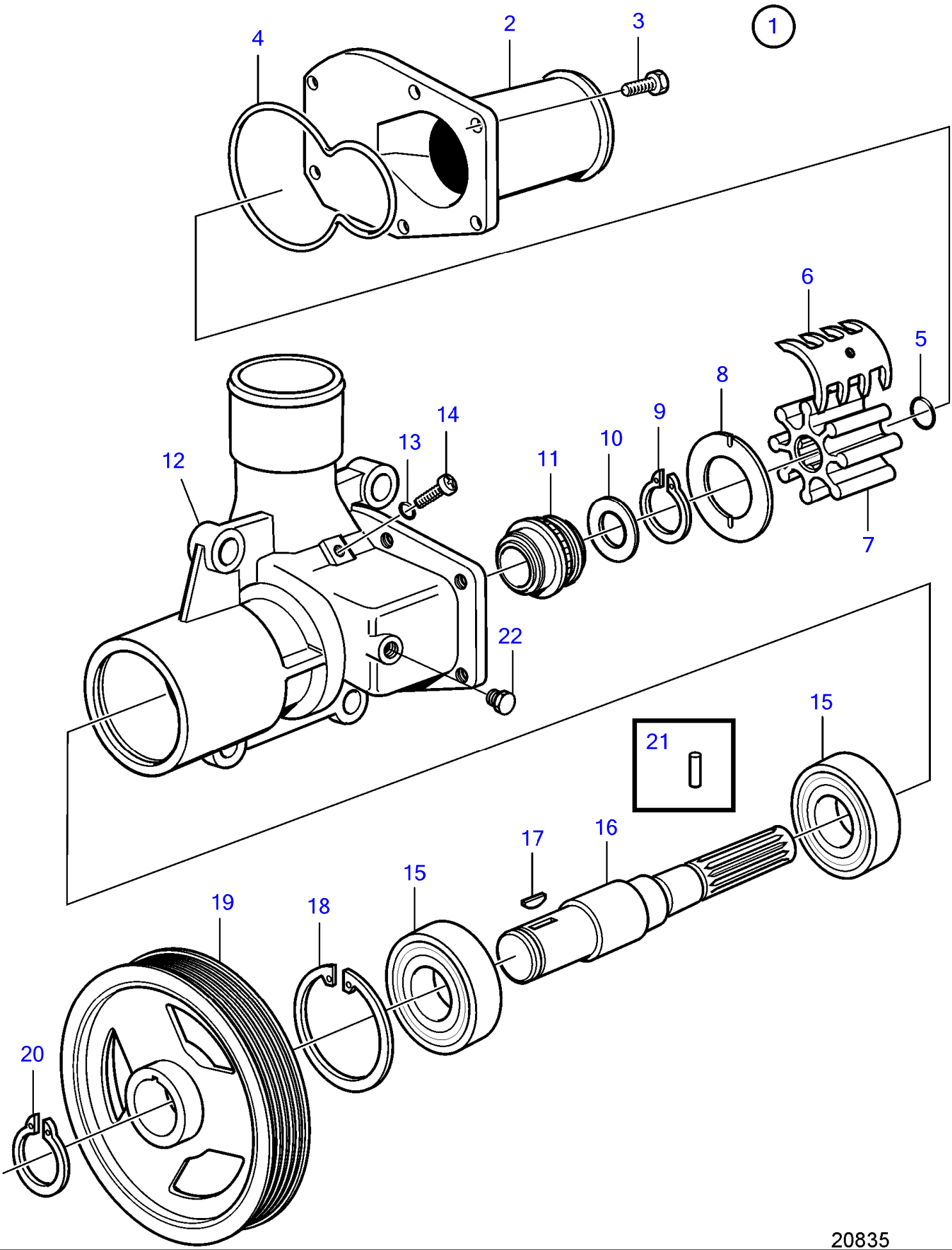


26334

D4-225A-F, D4-260A-F, D4-260D-F, D4-300A-F, D4-300D-F

REF	PART NO.	QTY	DESCRIPTION	SEE SEC.	NOTES
1	21368500	1	Sea water filter		
2	995147	1	· O-ring		
3	21368504	1	· Strainer		
4	21445782	1	· Cover		
5	21368508	1	· V-clamp		
6	3528225	1	· Spacer sleeve		
7	961672	9	Hose clamp		
8	994814	1	Rubber hose		
9	21368518	1	Hose		
10	3584430	1	T-pipe		
11	3584243	1	Radiator		
12	980476	1	Clamp		
13	946173	3	Flange screw		
14	984474	1	Clamp		
15	945444	1	Flange screw		
16	21368514	1	Hose		
17	961671	1	Hose clamp		
18	21419374	1	Sea water pump	37357	
			·	37357	
			· Bulletin P-26-6-5	P-26-6-5-EN	New seawater pump kits
19	21619824	1	Bracket		
20	21368510	1	Bracket		
21	994441	1	Flange screw		
22	947760	4	Flange screw		

D4-180I-F, D4-225I-F, D4-260I-F, D4-300I-F

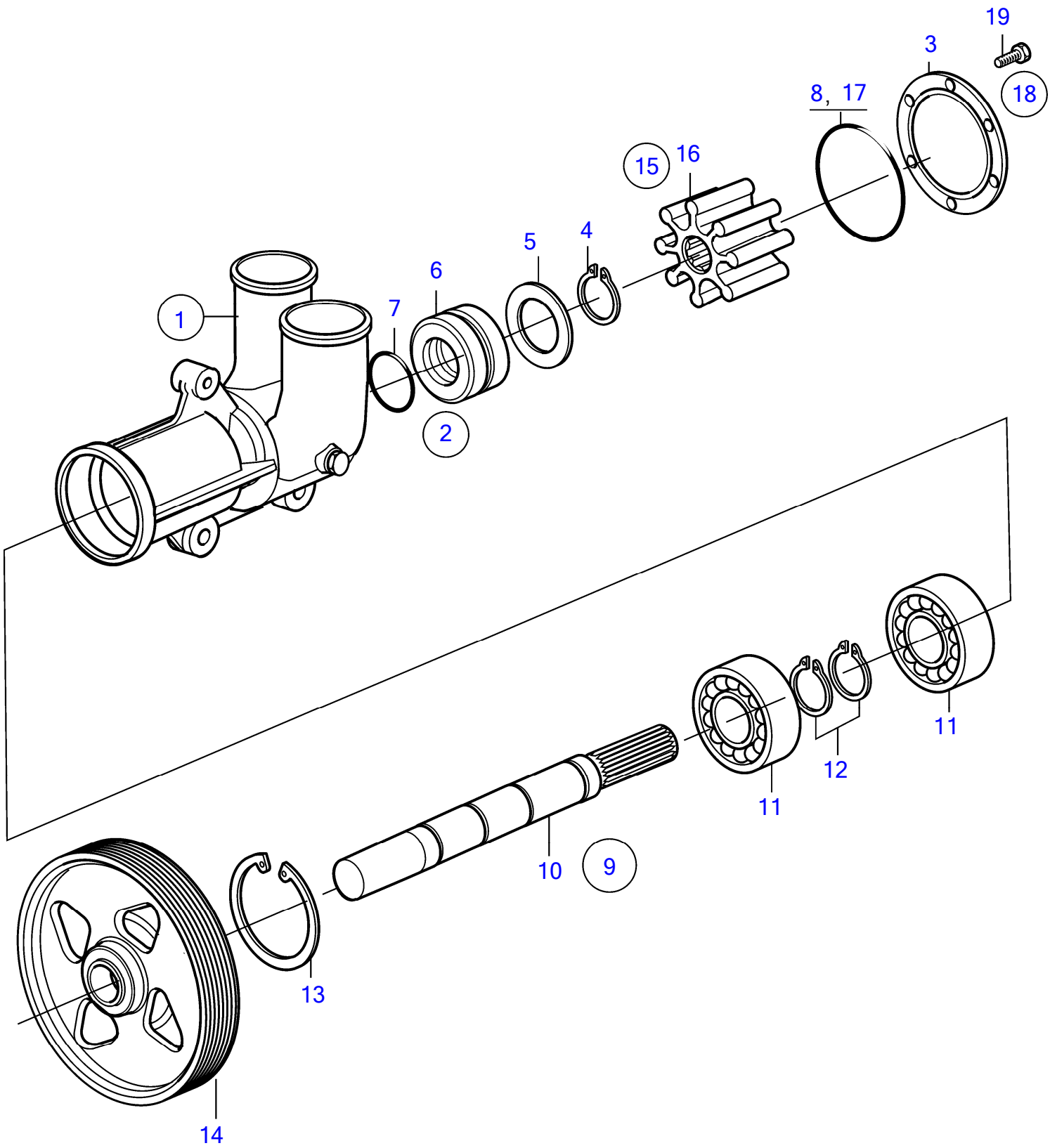


20835

D4-180I-F, D4-225I-F, D4-260I-F, D4-300I-F

REF	PART NO.	QTY	DESCRIPTION	SEE SEC.	NOTES
1	3584062	1	Sea water pump		
2	3583613		· Cardboard tube		
3	3583604	6	· Hexagon screw		
4	3583611	1	· O-ring		
5	804781	1	· Sealing washer		
6	3583612	1	· Cam		
7		1	· Impeller	37279	Included in kit 3588475
8	807589	1	· Wear washer		
9	809444	1	· Lock ring		
10	888388	1	· Washer		
11	3583609	1	· Seal		
12		1	· Pump housing		
13	3583614	1	· O-ring		
14	3583605	1	· Hexagon screw		
15	181648	2	· Ball bearing		
16	21418999	1	· Kit	37279	
17	888386	1	· Key		
18	825735	1	· Lock ring		
19	3583599	1	· Pulley		
20	804709	1	· Lock ring		
21	888387	1	· Pin		
22	981749	1	· Plug		

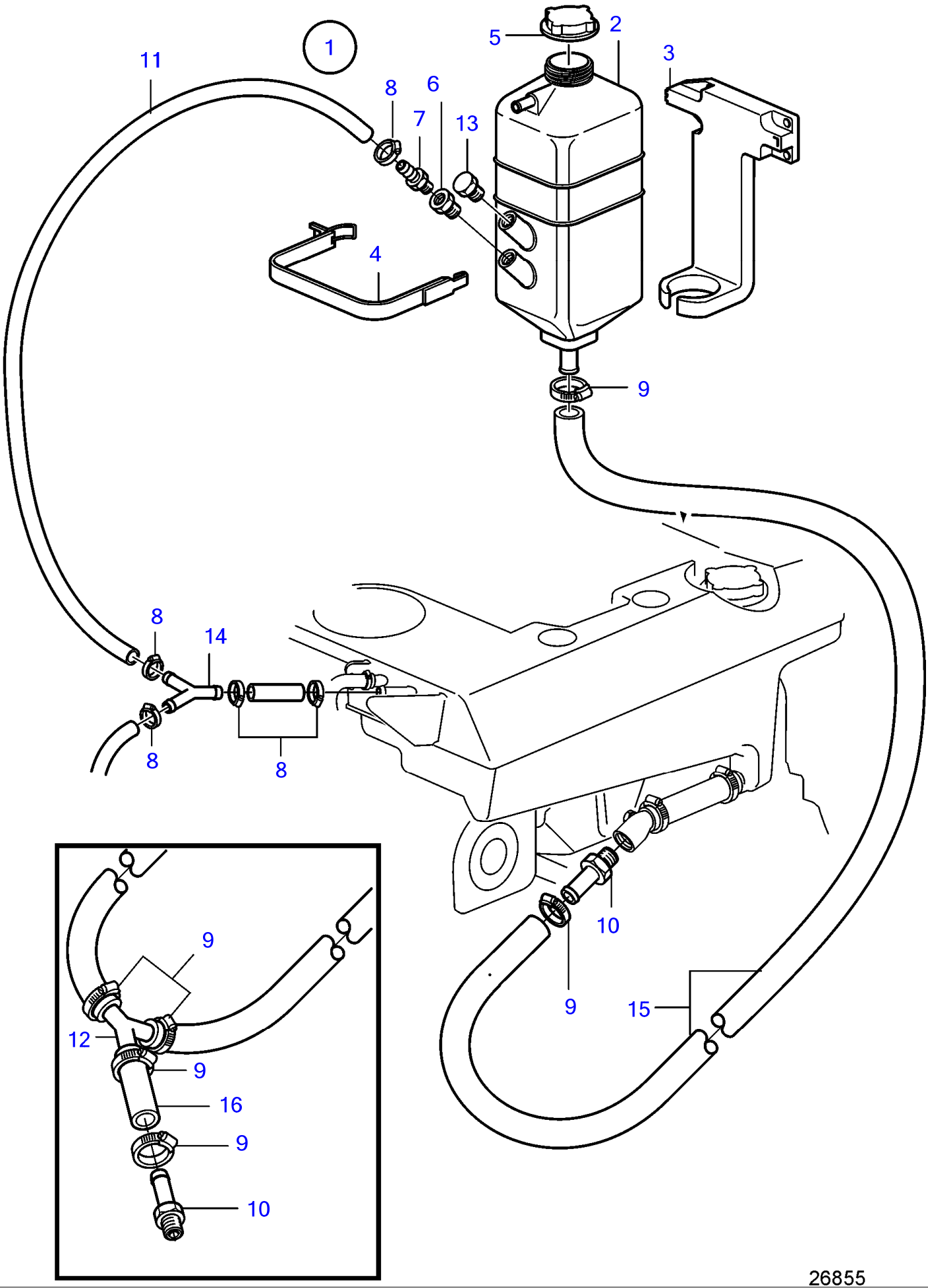
D4-225A-F, D4-260A-F, D4-260D-F, D4-300A-F, D4-300D-F



D4-225A-F, D4-260A-F, D4-260D-F, D4-300A-F, D4-300D-F

REF	PART NO.	QTY	DESCRIPTION	SEE SEC.	NOTES
1	21419374	1	Sea water pump		
			· Bulletin P-26-6-5	P-26-6-5-EN	New seawater pump kits
2	21951392	1	· Wear kit		
3	(3581617)	1	· · Cover		Obsolete part
4	809444	1	· · Lock ring		
5	3583988	1	· · Washer		
6	(21379134)	1	· · Sealing ring		Obsolete part
7	960166	1	· · O-ring		
8	3581618	1	· · O-ring		
9	21951453	1	· Shaft kit		
10	21422634	1	· · Shaft		
11	(21422638)	2	· · Ball bearing		Obsolete part
12	914451	2	· · Snap ring		
13	21422642	1	· · Snap ring		
14			· · Pulley		
15	3841697	1	· Impeller kit		replaced by next part number
	21422647	1	· Impeller kit		replaced by next part number
	21951356	1	· Impeller kit		
16		1	· · Impeller		
17	3581618	1	· · O-ring		
18	21951334	1	· Screw kit		
19	(21346724)	6	· · Hexagon screw		Obsolete part, Use screw kit 21951334

D4-180I-F, D4-225A-F, D4-225I-F, D4-260A-F, D4-260D-F, D4-260I-F, D4-300A-F, D4-300D-F, D4-300I-F

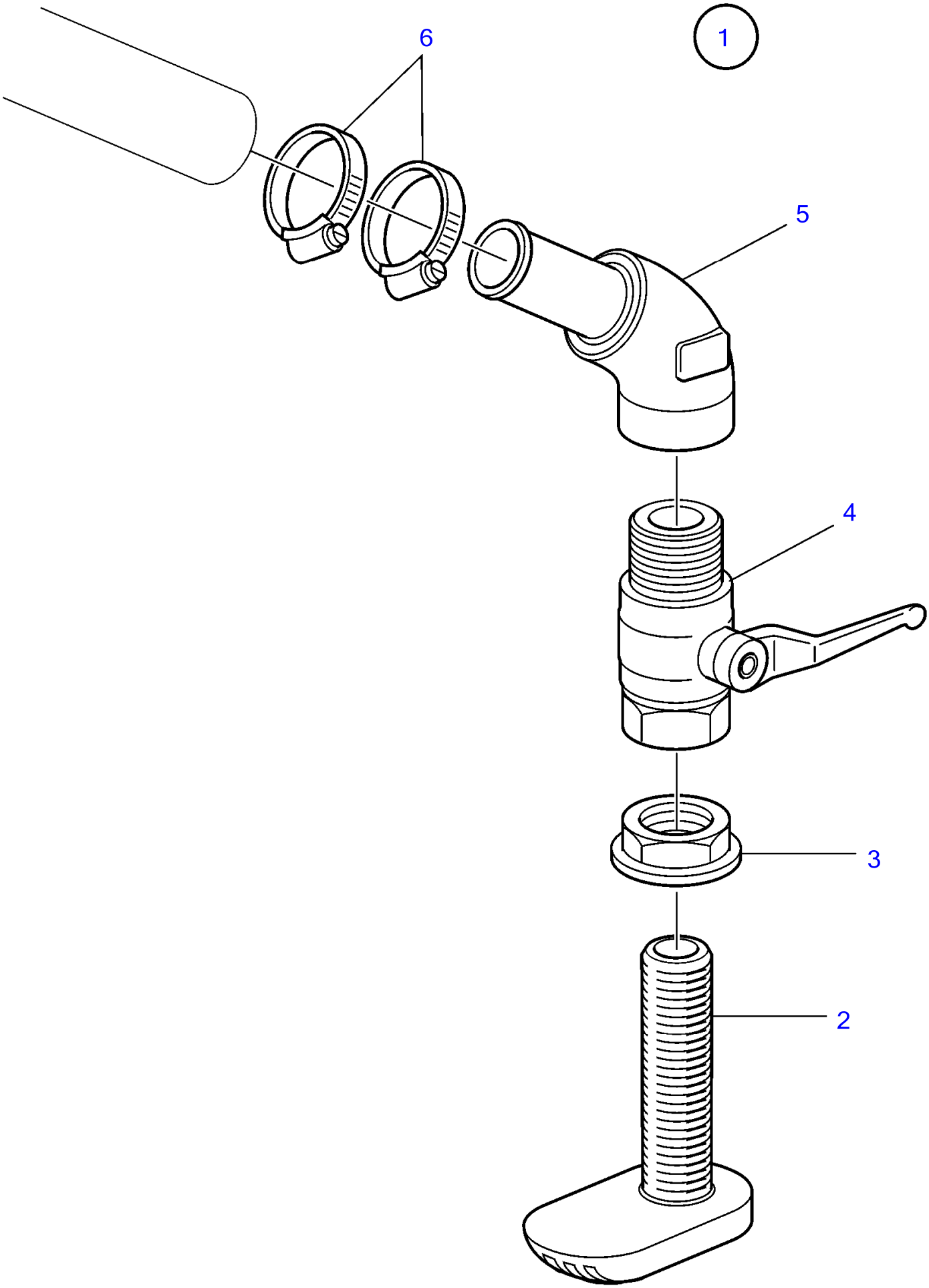


26855

D4-180I-F, D4-225A-F, D4-225I-F, D4-260A-F, D4-260D-F, D4-260I-F, D4-300A-F, D4-300D-F, D4-300I-F

REF	PART NO.	QTY	DESCRIPTION	SEE SEC.	NOTES
1	3886264	1	Expansion tank kit		
			· Bulletin P-26-1-1	P-26-1-1-EN	Extra Expansion Tank for D4 and D6
2	844062	1	· Expansion tank		
3	843260	1	· Bracket		
4	843266	1	· Clamp		
5	860866	1	· Filler cap		
6	847579	2	· Nipple		
7	180003	1	· Nipple		
8	976576	4	· Hose clamp		
9	992082	6	· Hose clamp		
10	961657	2	· Hose nipple		
11	942700	X	· Hose		L=6000mm
12	345845	1	· Distribution pipe		
13	947660	1	· Plug		
14	840179	1	· Hose coupling		
15	943368	1	· Rubber hose		
16	843247	1	· Connection pipe		

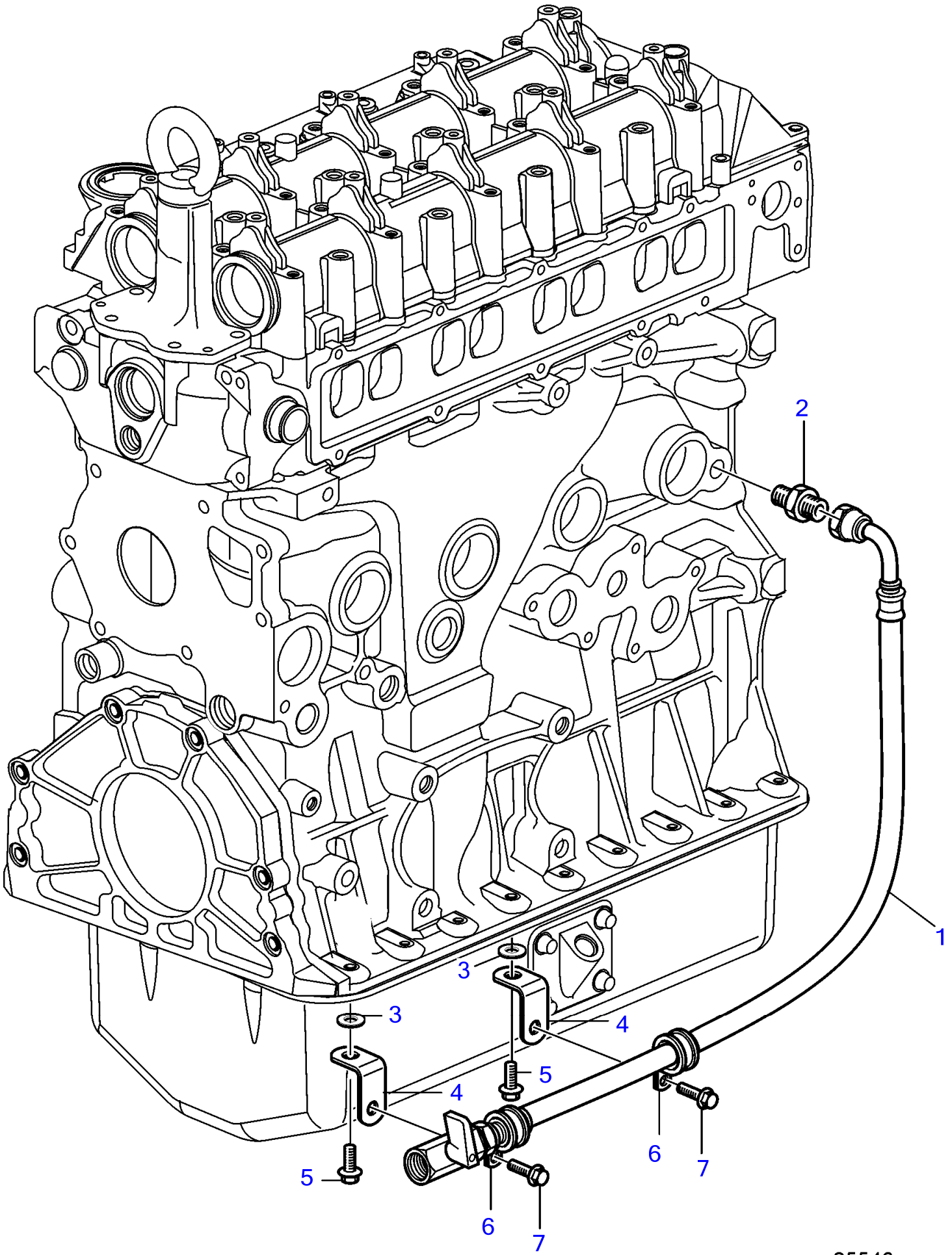
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D4-180I-F, D4-225A-F, D4-225I-F, D4-260A-F, D4-260D-F, D4-260I-F, D4-300A-F, D4-300D-F, D4-300I-F

REF	PART NO.	QTY	DESCRIPTION	NOTES
1	3587668	1	Water inlet	
2	848321	1	· Strainer	
3	848323	1	· Flange nut	
4	3837938	1	· Ball valve	
5	3586998	1	· Hose connection	For 50mm hose connection, use 848420
6	961671	2	· Hose clamp	

D4-180I-F, D4-225A-F, D4-225I-F, D4-260A-F, D4-260D-F, D4-260I-F, D4-300A-F, D4-300D-F, D4-300I-F

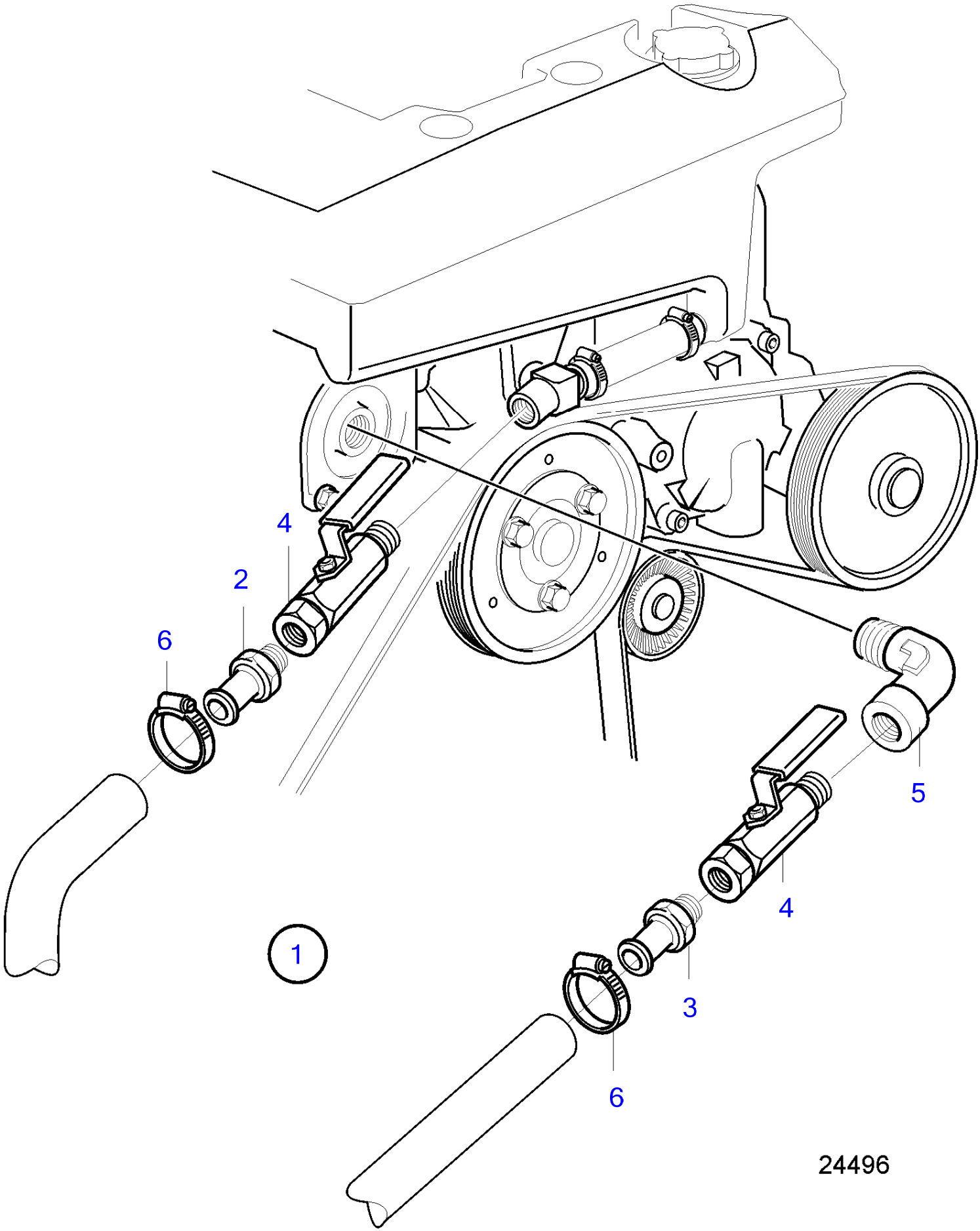


25546

D4-180I-F, D4-225A-F, D4-225I-F, D4-260A-F, D4-260D-F, D4-260I-F, D4-300A-F, D4-300D-F, D4-300I-F

REF	PART NO.	QTY	DESCRIPTION
1	21235854	1	Drain hose
2	943299	1	Nipple
3	941744	2	Washer
4	3584088	2	Angle bracket
5	946173	2	Flange screw
6	952629	2	Clamp
7	946501	2	Flange screw

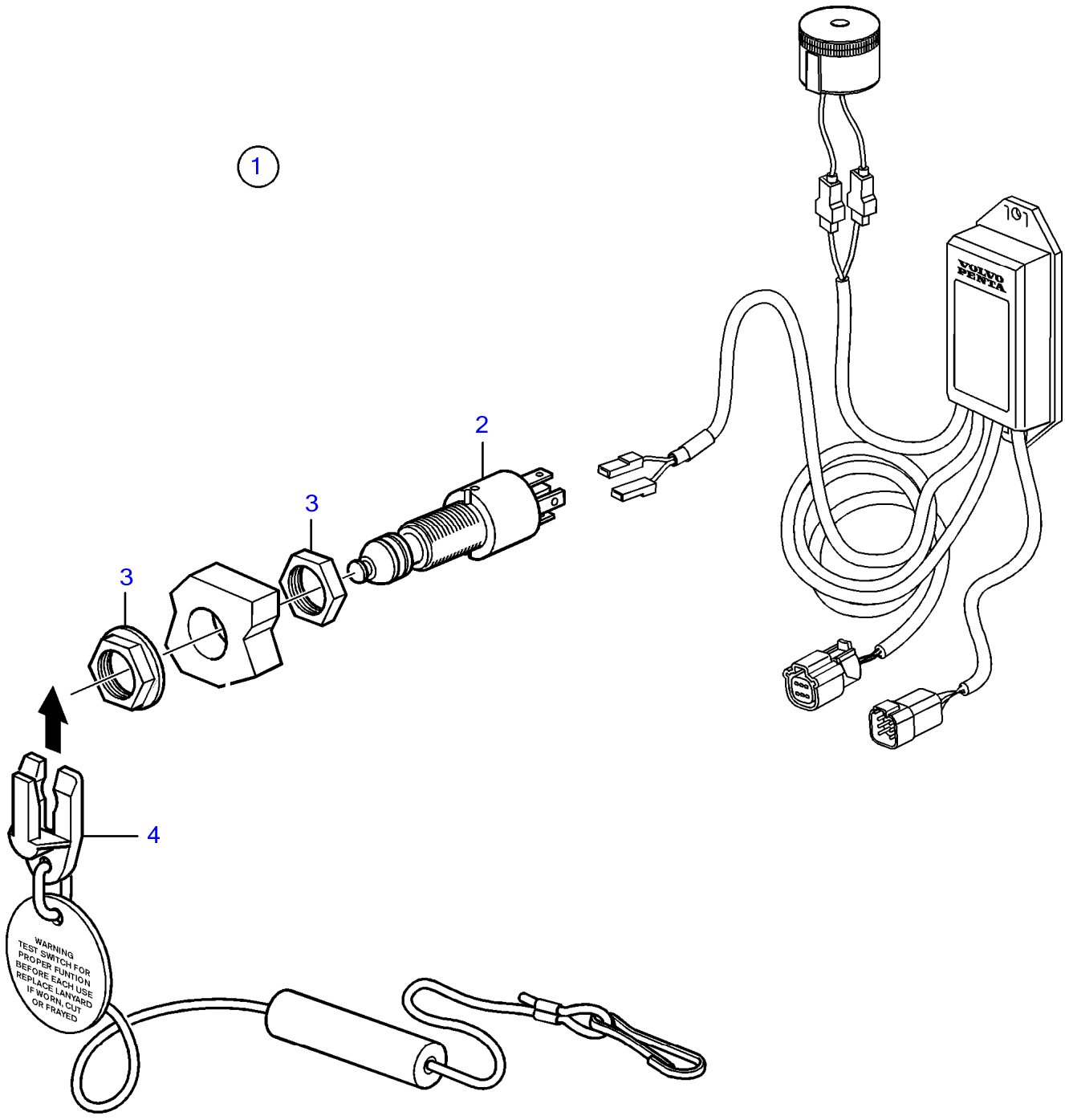
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D4-180I-F, D4-225A-F, D4-225I-F, D4-260A-F, D4-260D-F, D4-260I-F, D4-300A-F, D4-300D-F, D4-300I-F

REF	PART NO.	QTY	DESCRIPTION	NOTES
1	21145832	1	Hot water outlet	(3584236)
2	961657	1	· Hose nipple	
3	993178	1	· Hose nipple	
4	3584238	2	· Faucet	
5	3584388	1	· Elbow nipple	
6	961666	2	Hose clamp	

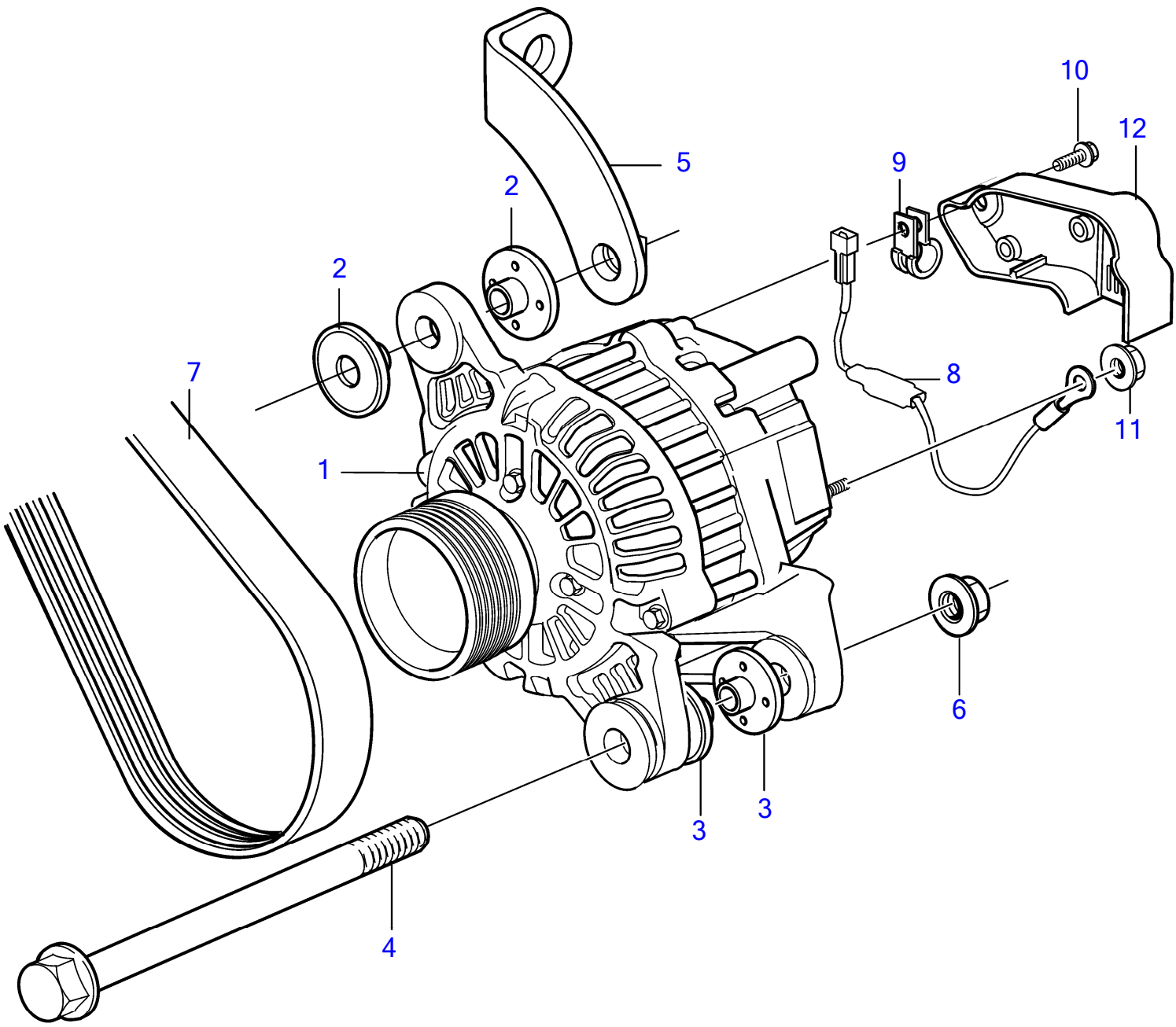
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D4-180I-F, D4-225A-F, D4-225I-F, D4-260A-F, D4-260D-F, D4-260I-F, D4-300A-F, D4-300D-F, D4-300I-F

REF	PART NO.	QTY	DESCRIPTION	NOTES
1	21469024		Switch	
2	3817092	1	· Safety switch	
3		2	· Nut	not sold separately
4	22027280	1	· Safety strap	

D4-180I-F, D4-225A-F, D4-225I-F, D4-260A-F, D4-260D-F, D4-260I-F, D4-300A-F, D4-300D-F, D4-300I-F

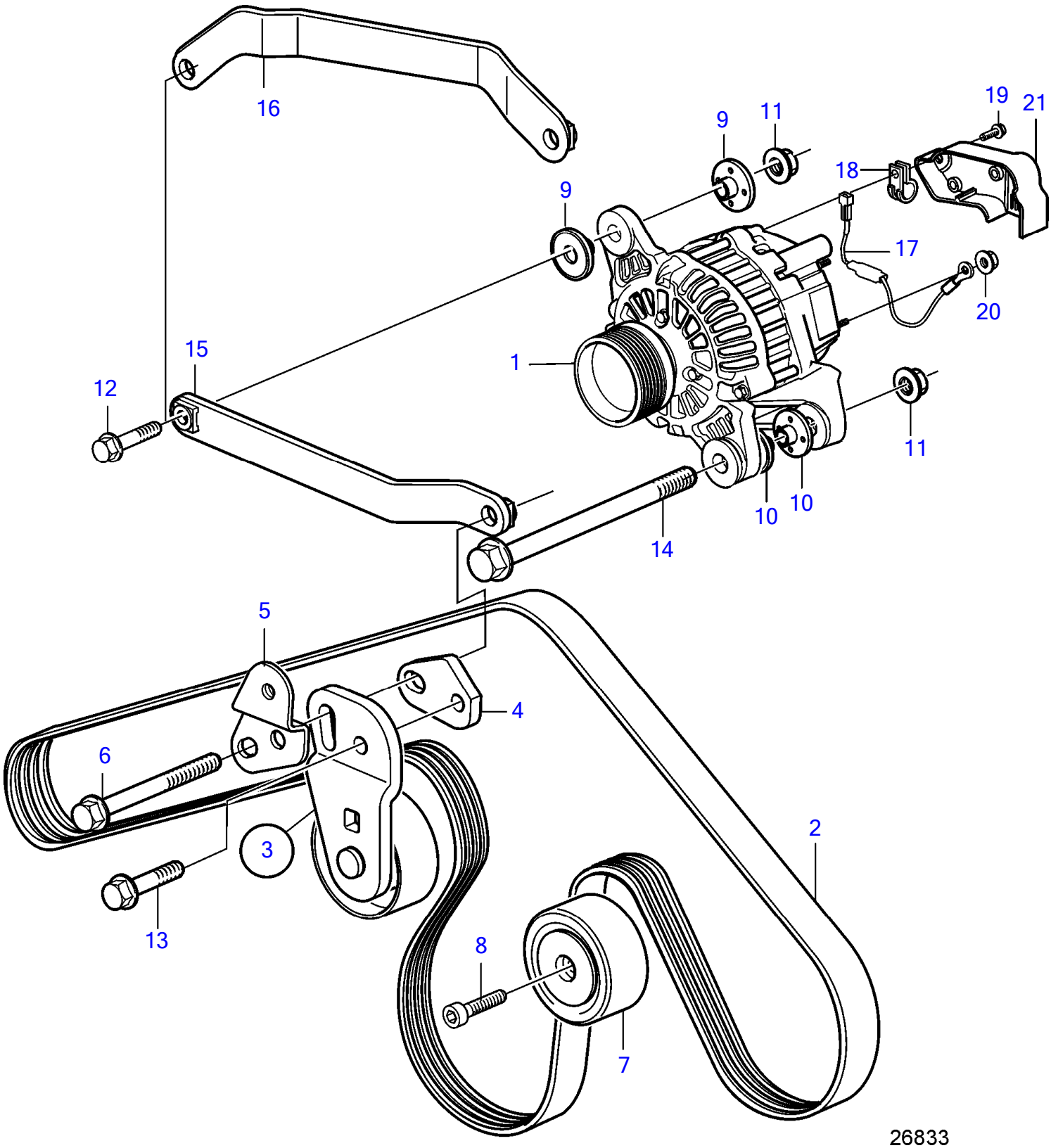


26422

D4-180I-F, D4-225A-F, D4-225I-F, D4-260A-F, D4-260D-F, D4-260I-F, D4-300A-F, D4-300D-F, D4-300I-F

REF	PART NO.	QTY	DESCRIPTION	NOTES
1	3803911	1	Alternator, exch	14V, 115A
	3803912	1	Alternator, exch	28V, 80A
2	3589369	2	Insulating bushing	D=8mm
3	3589388	2	Insulating bushing	D=12mm
4	978447	1	Flange screw	
5	3809682	1	Bracket	(3583005)
6	971096	1	Flange nut	
7	3582696	1	V-ribbed belt	Standard
	991590	1	V-ribbed belt	SOLAS
8	881679	1	Resistor	12V
	21694528	1	Resistor	24V
9	952627	1	Clamp	
10	948663	1	Flange screw	
11	983712	1	Hexagon nut	
12	21217571	1	Housing	

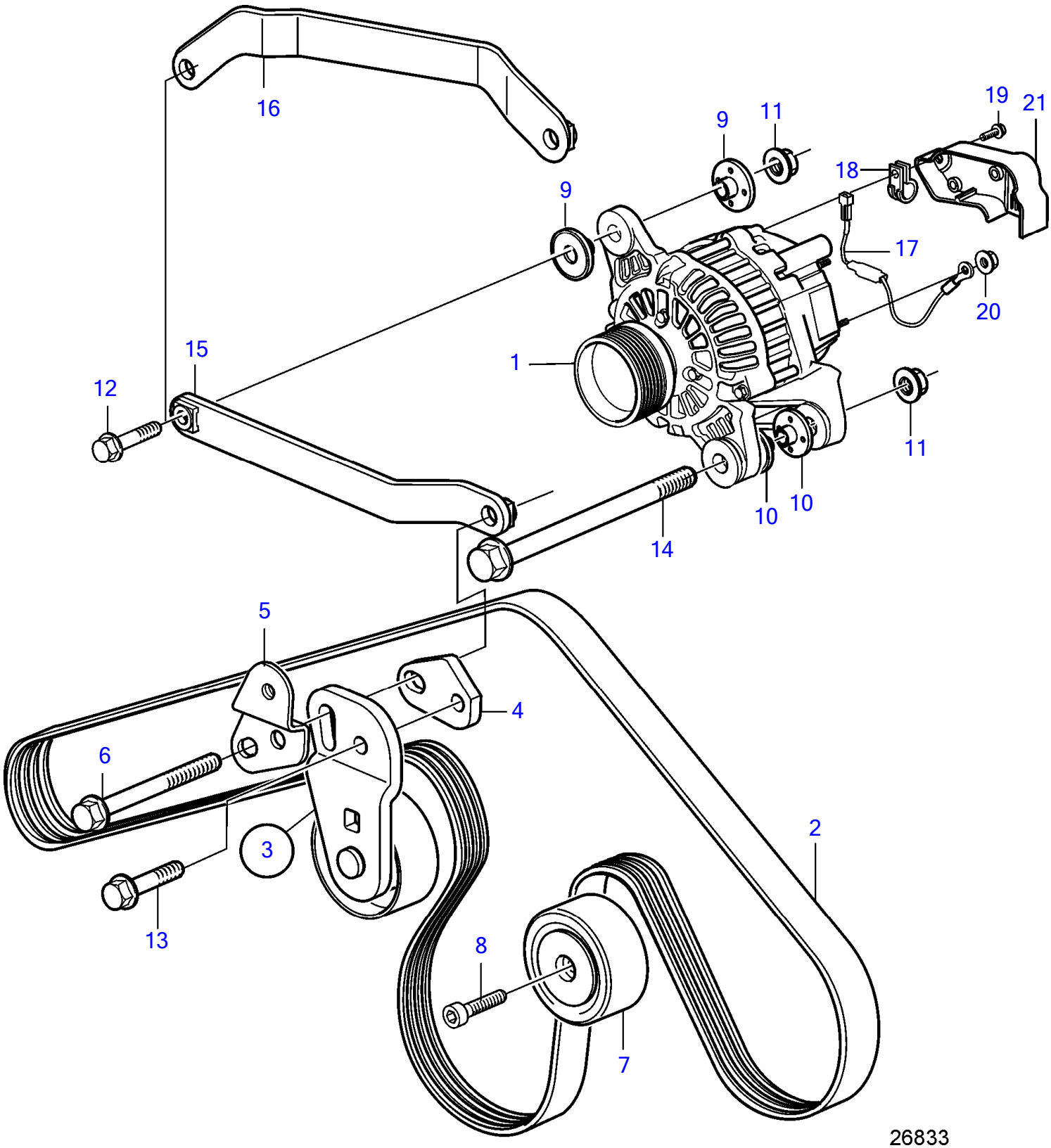
D4-180I-F, D4-225A-F, D4-225I-F, D4-260I-F, D4-300I-F



D4-180I-F, D4-225A-F, D4-225I-F, D4-260I-F, D4-300I-F

REF	PART NO.	QTY	DESCRIPTION	SEE SEC.	NOTES
1	3840181	1	Alternator		14V, 115A
			▪	38781	
	3803911	1	Alternator, exch, exch		14V, 115A
			▪	38781	
	3840183	1	Alternator		28V, 80A
	3803912	1	Alternator, exch, exch		28V, 80A
2	21405494	1	Belt, generator		Standard
	991587	1	V-ribbed belt, generator		SOLAS
	21407028	1	V-ribbed belt, power steering pump		Standard
	991591	1	V-ribbed belt, power steering pump		SOLAS
3	21344508	1	Belt tensioner		
4		1	▪ Spacer disc		
5		1	▪ Bracket		
6	965190	1	▪ Flange screw		
7	3847482	1	Idler pulley		
8	959224	1	Hex. socket screw		
9	21328137	2	Insulating bushing		D=8mm
10	21308514	2	Insulating bushing		D=12mm
11	971096	2	Flange nut		
12	946470	1	Flange screw		
13	965186	1	Flange screw		
14	984825	1	Flange screw		
15	3584076	1	Bracket		
16	3588184	1	Bracket		For compressor
17	21768078	1	Resistor		12V
	21694528	1	Resistor		24V
18	952627	1	Clamp		
19	948663	1	Flange screw		
20	983712	1	Hexagon nut		
21	21217571	1	Housing		

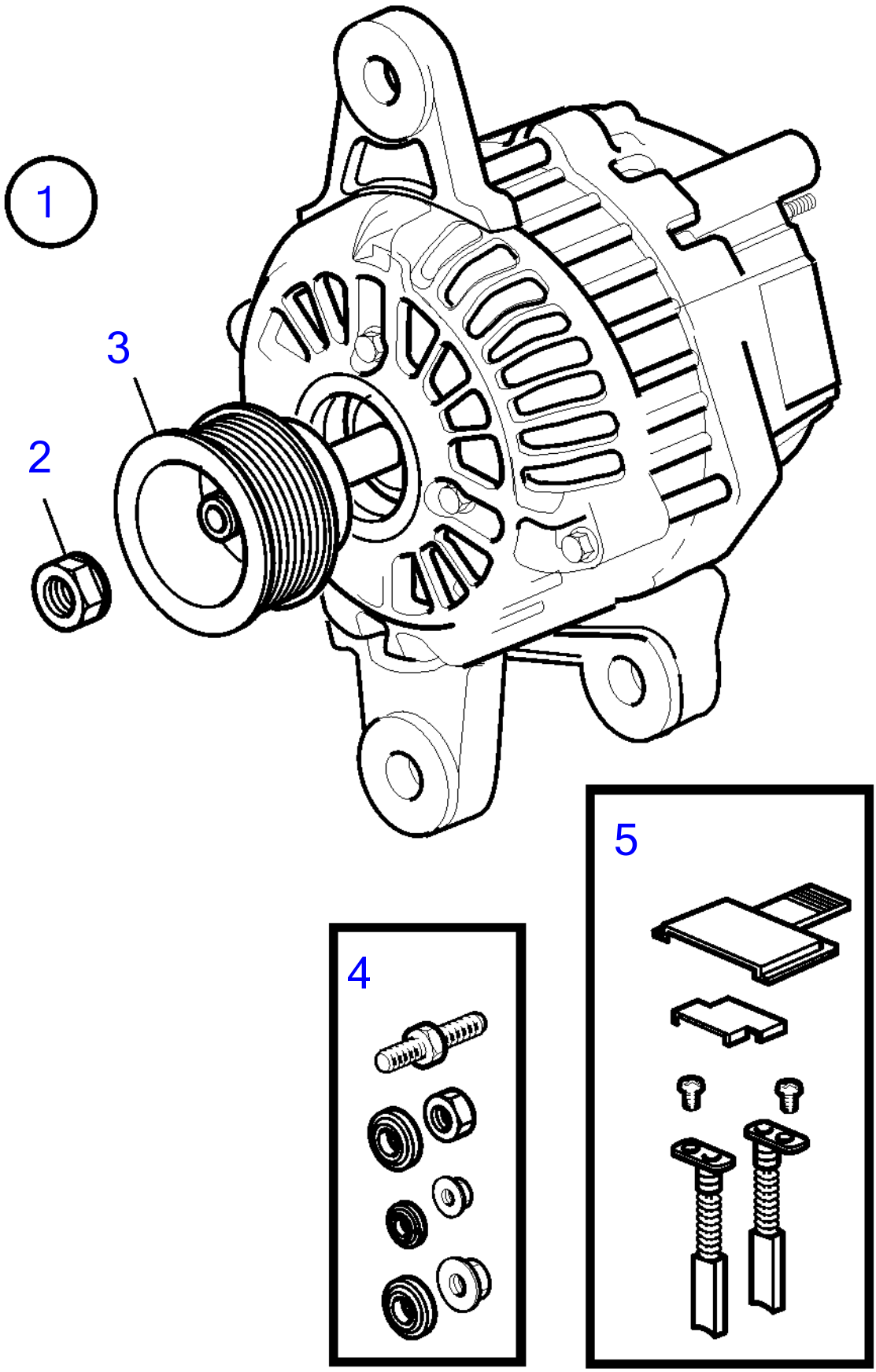
D4-260A-F, D4-260D-F, D4-300A-F, D4-300D-F



D4-260A-F, D4-260D-F, D4-300A-F, D4-300D-F

REF	PART NO.	QTY	DESCRIPTION	SEE SEC.	NOTES
1	3840181	1	Alternator		14V, 115A
			▪	38781	
	3803911	1	Alternator, exch, exch		14V, 115A
			▪	38781	
	3840183	1	Alternator		28V, 80A
	3803912	1	Alternator, exch, exch		28V, 80A
2	21405494	1	Belt, generator		Standard
	991587	1	V-ribbed belt, generator		SOLAS
	21407028	1	V-ribbed belt, power steering pump		Standard
	991591	1	V-ribbed belt, power steering pump		SOLAS
3	21344508	1	Belt tensioner		
4		1	▪ Spacer disc		
5		1	▪ Bracket		
6	965190	1	▪ Flange screw		
7	3847482	1	Idler pulley		
8	959224	1	Hex. socket screw		
9	21328137	2	Insulating bushing		D=8mm
10	21308514	2	Insulating bushing		D=12mm
11	971096	2	Flange nut		
12	946470	1	Flange screw		
13	965186	1	Flange screw		
14	984825	1	Flange screw		
15	3584076	1	Bracket		
16	3588184	1	Bracket		For compressor
17	21768078	1	Resistor		12V
	21694528	1	Resistor		24V
18	952627	1	Clamp		
19	948663	1	Flange screw		
20	983712	1	Hexagon nut		
21	21217571	1	Housing		

D4-180I-F, D4-225A-F, D4-260A-F, D4-260D-F, D4-260I-F, D4-300A-F, D4-300D-F, D4-300I-F

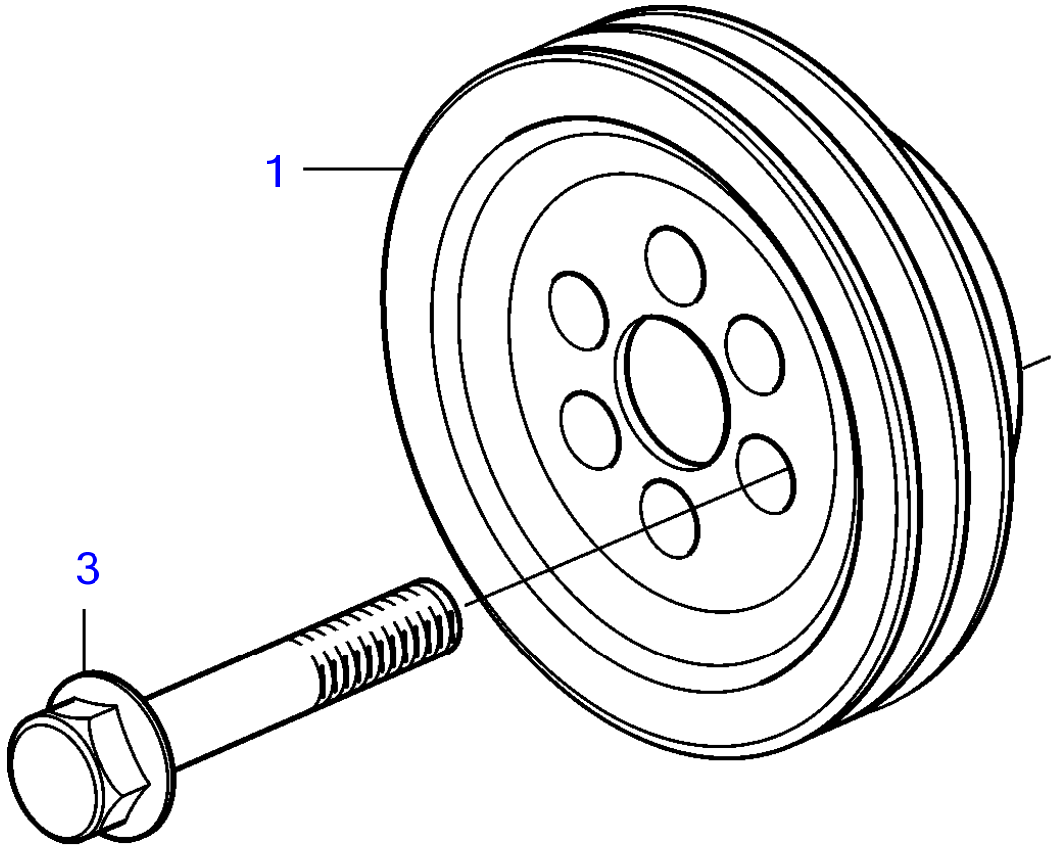


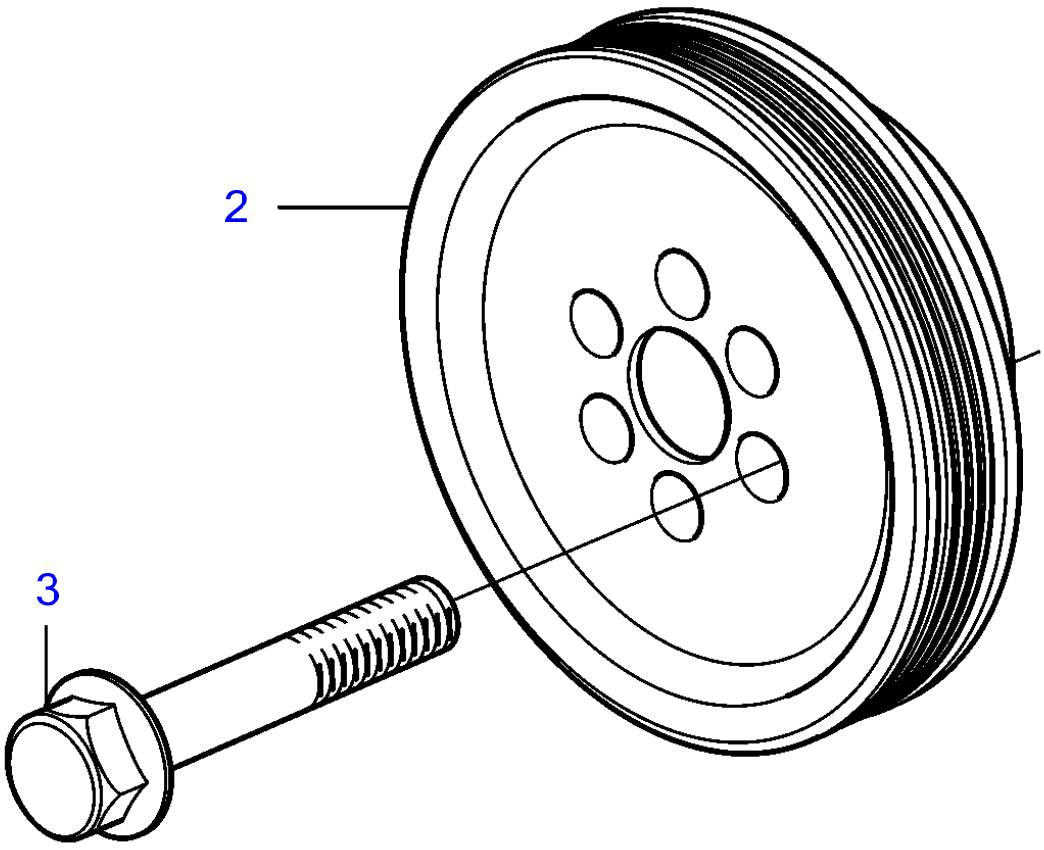
24383

D4-180I-F, D4-225A-F, D4-260A-F, D4-260D-F, D4-260I-F, D4-300A-F, D4-300D-F, D4-300I-F

REF	PART NO.	QTY	DESCRIPTION	NOTES
1	3840181	1	Alternator	
	3803911	1	Alternator, exch, exch	
2	3818955	1	· Nut set	
3	3809128	1	· Pulley	Boats with Glass Fibre Hulls
	22059056	1	· Pulley	Boats with Aluminum or Carbon Fibre Hulls
4	3818997	1	· Connector kit	
5	20750350	1	· Brush set	

D4-180I-F, D4-225A-F, D4-225I-F, D4-260A-F, D4-260D-F, D4-260I-F, D4-300A-F, D4-300D-F, D4-300I-F



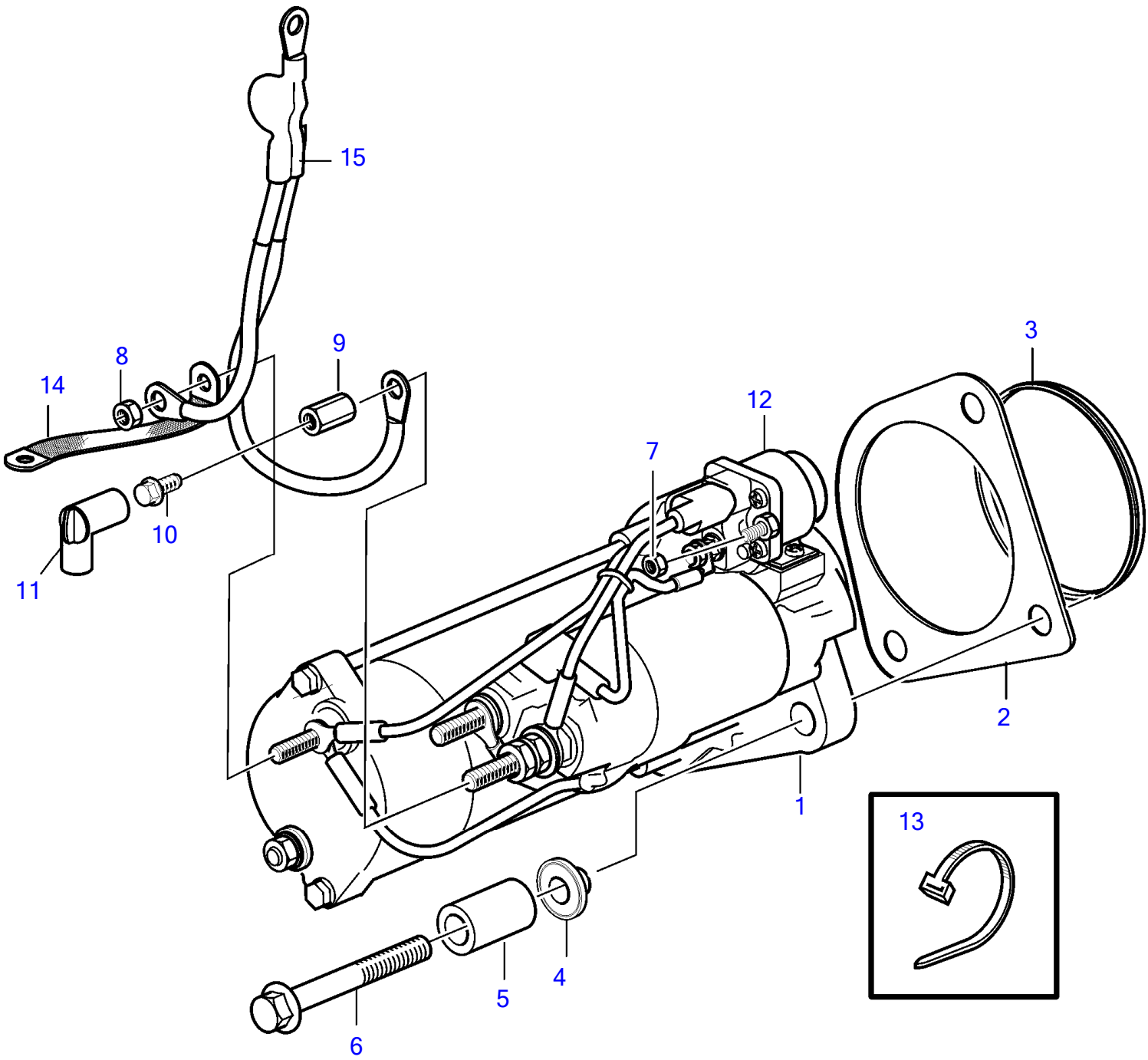


25325

D4-180I-F, D4-225A-F, D4-225I-F, D4-260A-F, D4-260D-F, D4-260I-F, D4-300A-F, D4-300D-F, D4-300I-F

REF	PART NO.	QTY	DESCRIPTION	NOTES
1	3809925	1	Pulley	For V-belt
2	3809926	1	Pulley	For multi-V-belt.
3	471540	6	Flange screw	

D4-180I-F, D4-225A-F, D4-225I-F, D4-260A-F, D4-260D-F, D4-260I-F, D4-300A-F, D4-300D-F, D4-300I-F

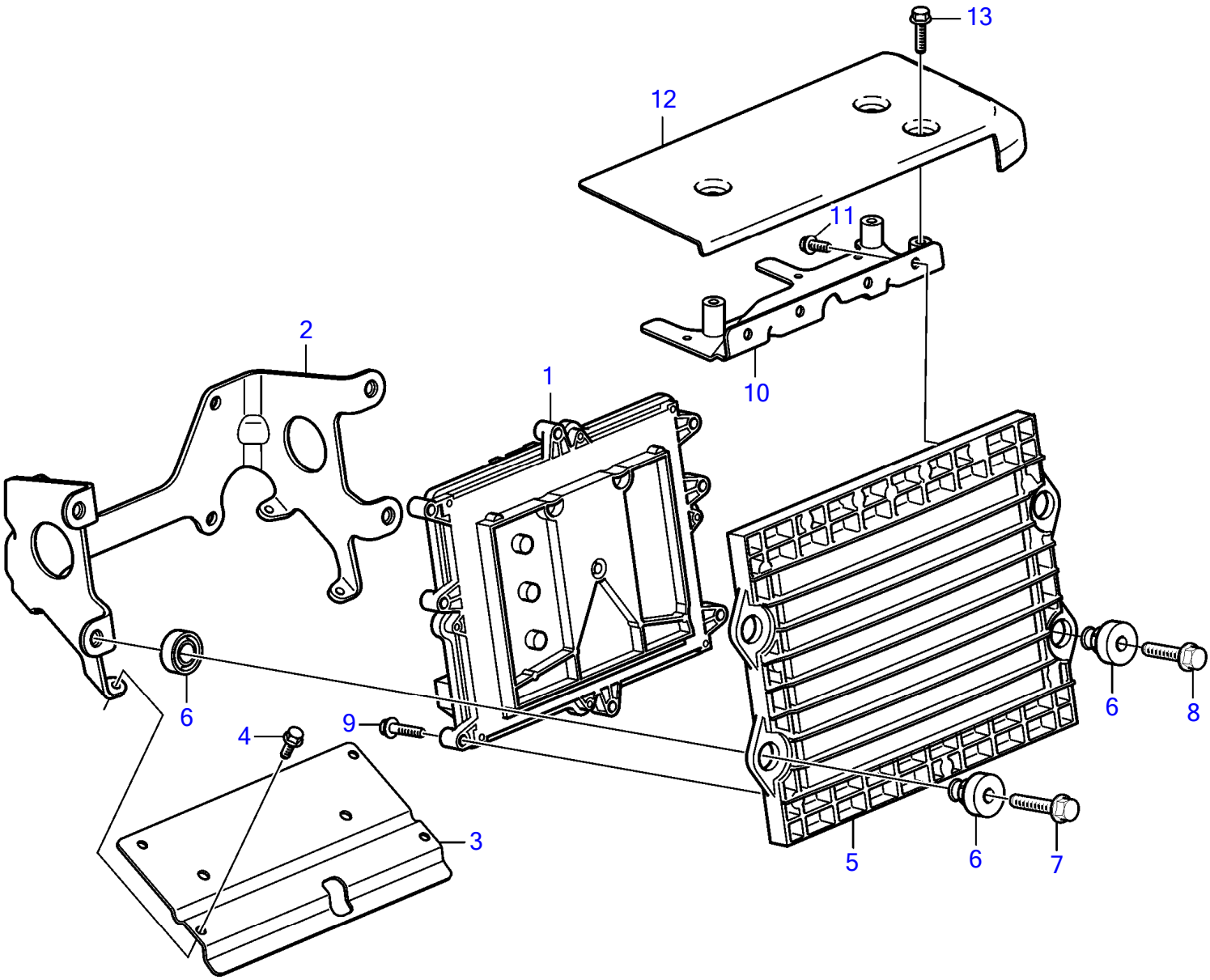


26430

D4-180I-F, D4-225A-F, D4-225I-F, D4-260A-F, D4-260D-F, D4-260I-F, D4-300A-F, D4-300D-F, D4-300I-F

REF	PART NO.	QTY	DESCRIPTION	NOTES
1	3594614	1	Starter motor	12V, SOLAS
	3801296	1	Starter motor, exch, exch	12V, SOLAS
			• parts not sold separately	
	21423489	1	Starter motor, 24v 5	24V, SOLAS
			• parts not sold separately	
2	21389274	1	Gasket	
3	21380910	1	Gasket	
4	21308512	3	Insulating bushing	
5	845884	3	Spacer sleeve	
6	984758	3	Flange screw	
7	983714	1	Hexagon nut	
8	983715	1	Hexagon nut	negative pole
9	857180	1	Spacer nut	positive pole
10	946670	1	Flange screw	
11	855798	1	Protecting sleeve	
12	3818845	1	Starter relay	12V
	3818856	1	Starter relay	24V
13	948702	1	Cable tie	
14	996153	1	Chassis ground cable	Do not use with transient protector
15	21923306	1	Wiring harness kit	Transient protector, alternative to chassis ground cable

D4-260A-F, D4-260D-F, D4-300A-F, D4-300D-F



26324

D4-260A-F, D4-260D-F, D4-300A-F, D4-300D-F

REF	PART NO.	QTY	DESCRIPTION	NOTES
1	881810	1	Control unit, not programmed	
	3586269	1	Software	Warehouse programming. This p/n can not be ordered, but will be used for invoicing.
	3586268	1	Software	Vodia-programming. This p/n can not be ordered, but will be used for invoicing.
2	21712181	1	Bracket	
3	21720574	1	Heat shield	
4	946501	4	Flange screw	
5	3584080	1	Support	
6	3842049	4	Damping element	
7	948217	2	Flange screw	
8	947760	2	Flange screw	
9	949556	8	Flange screw	
10	21717702	1	Bracket	
11	967949	4	Flange screw	
12	21721137	1	Cover	
13	946934	3	Flange screw	