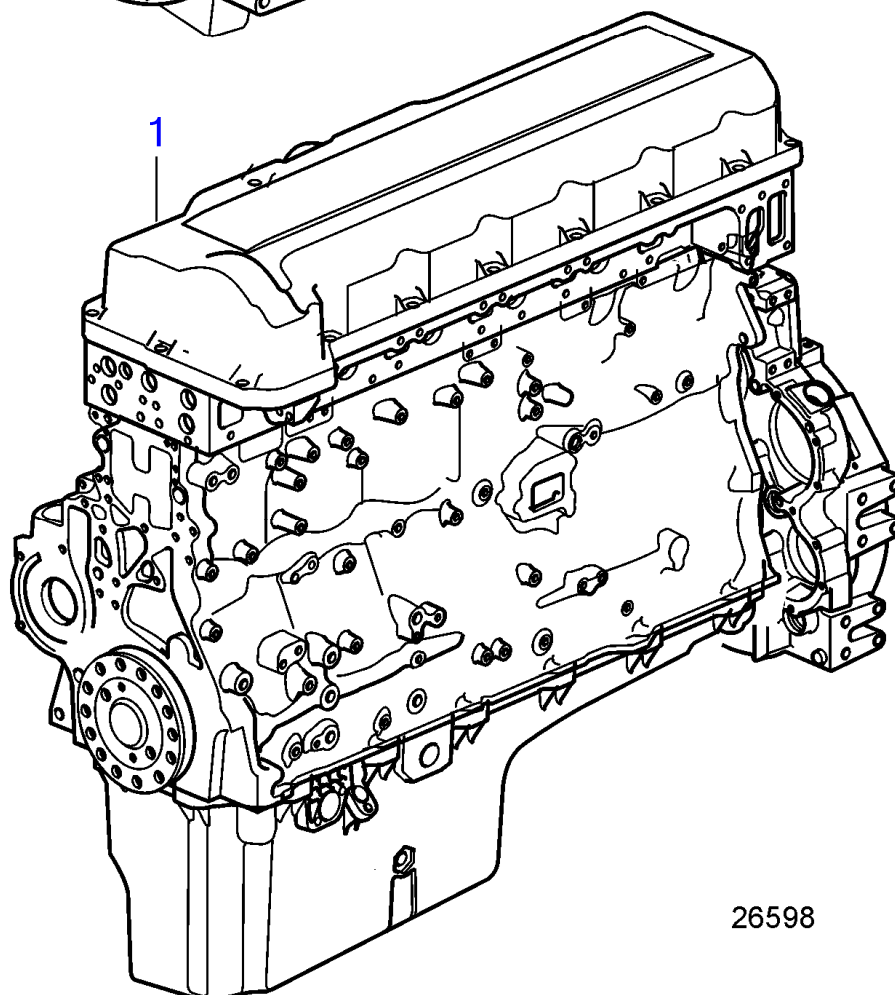
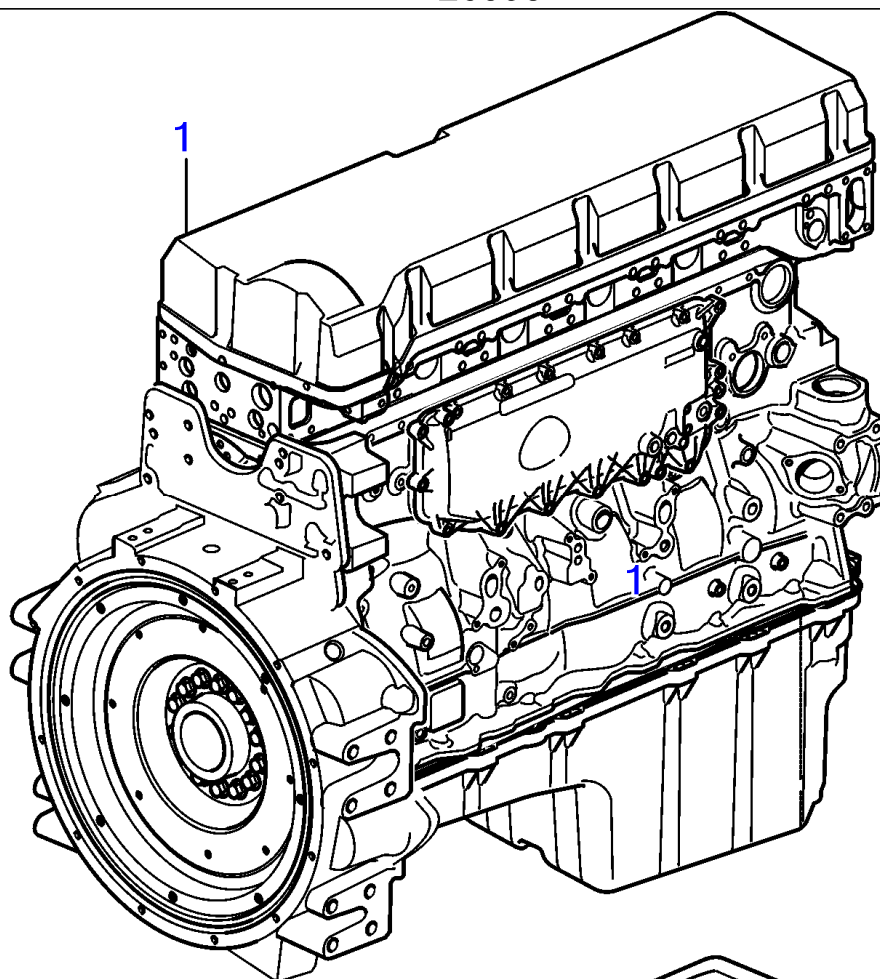


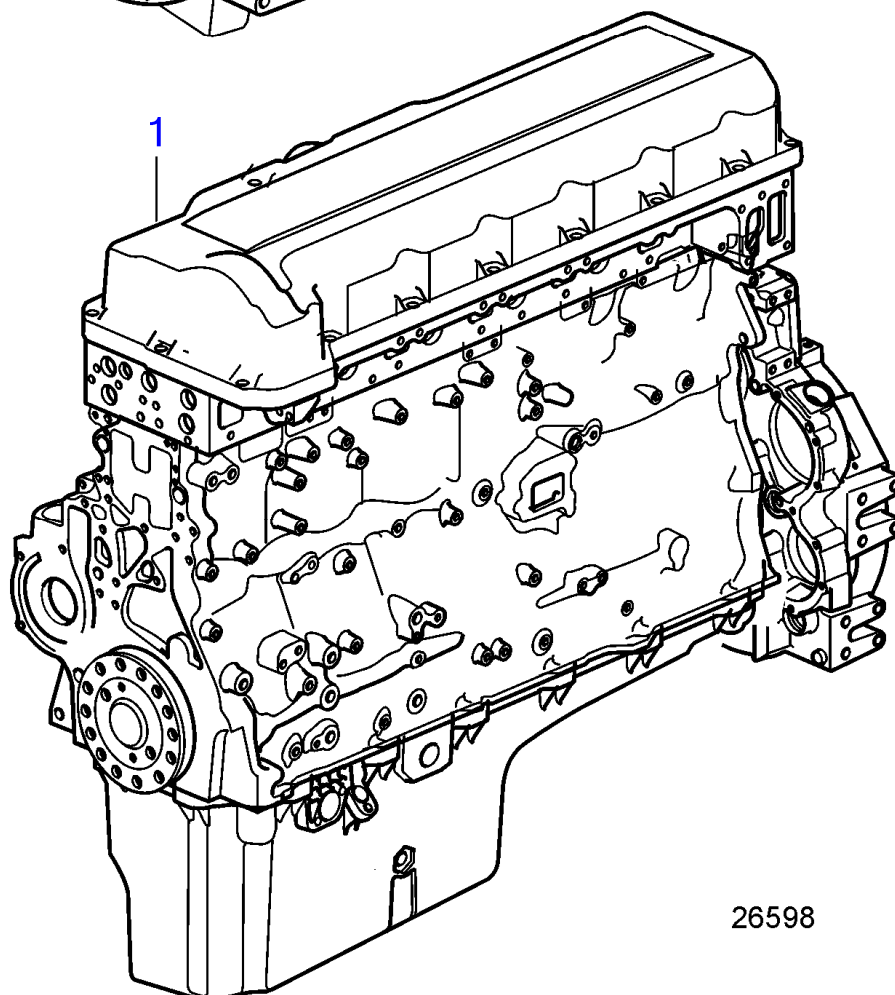
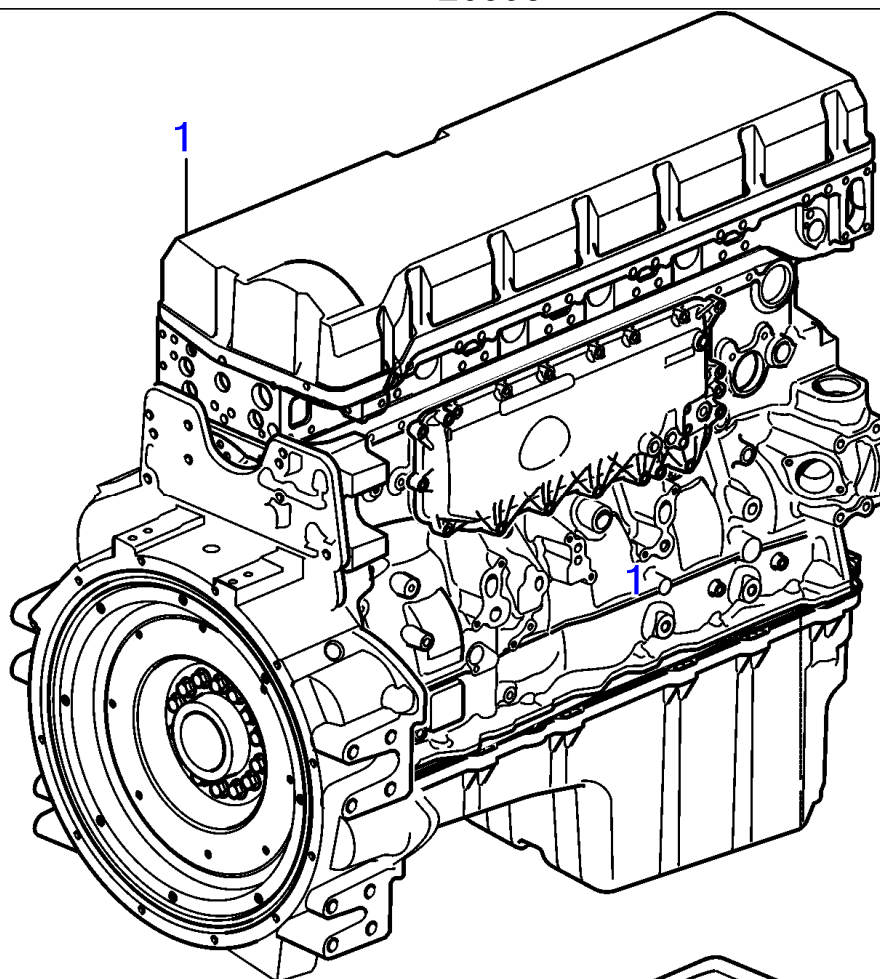


26598

21 Long Block, Exchange

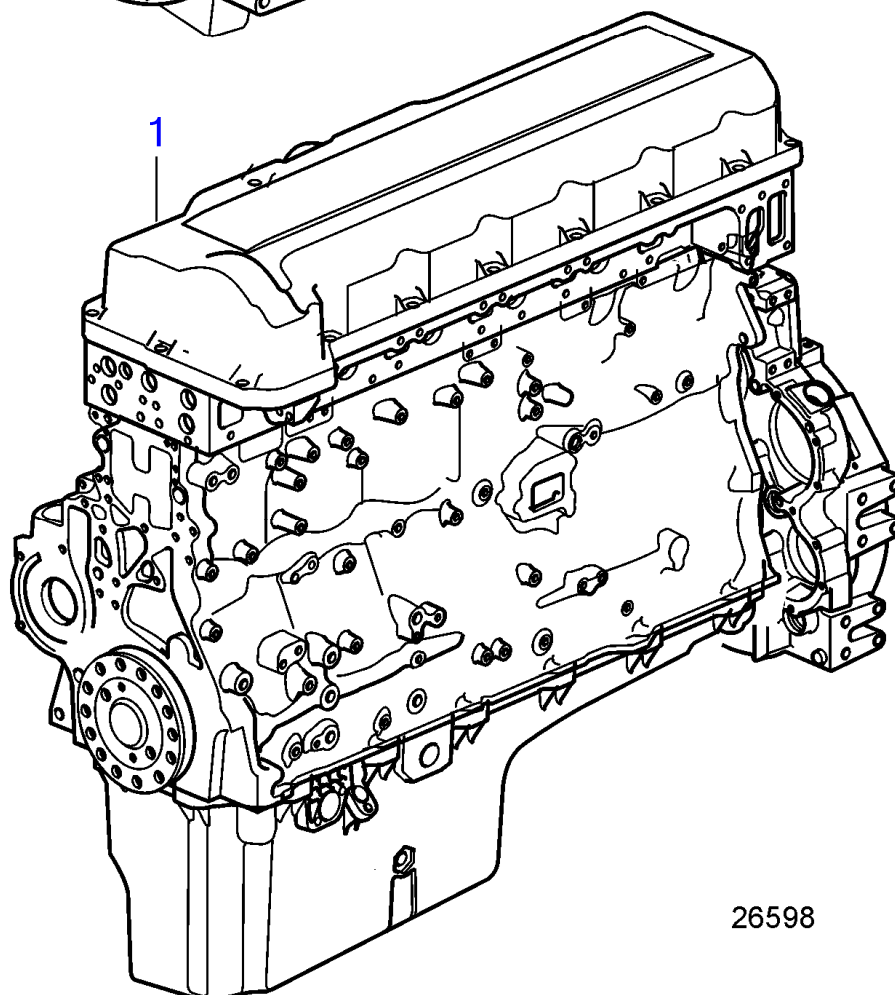
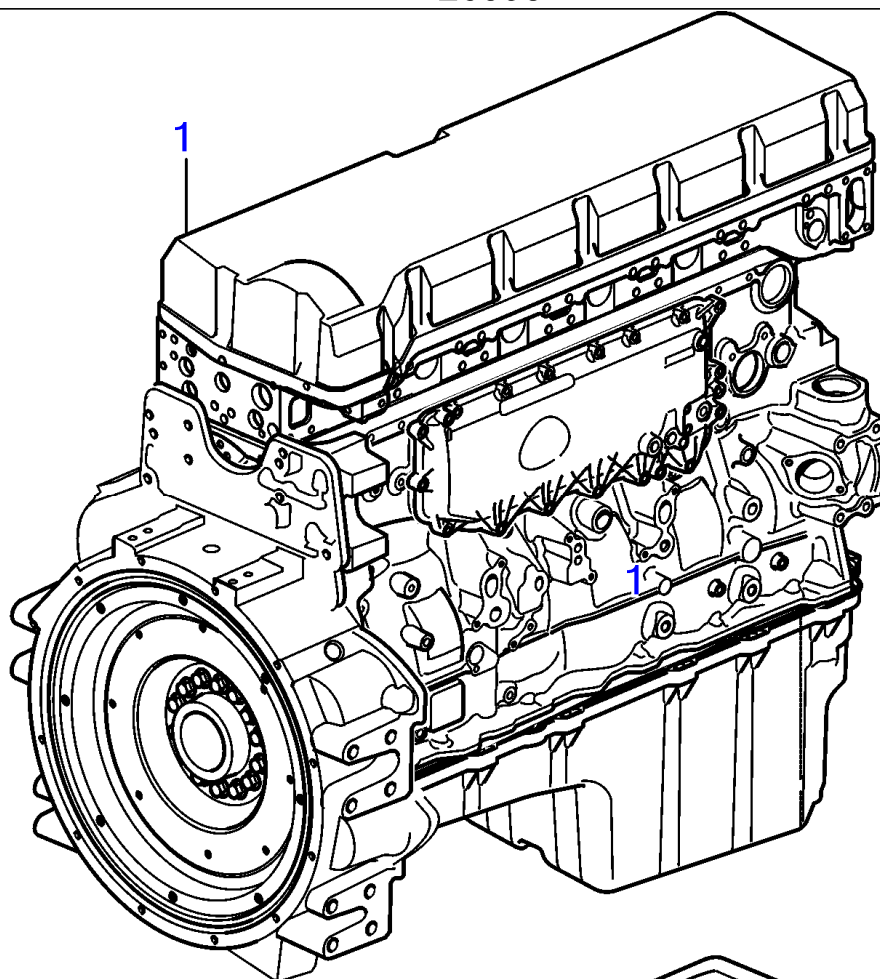
TAD1641VE, TAD1642VE, TAD1643VE

Ref	Part No.	Qty	Description	Notes
1	3801513	1	Longblock · Bulletin P-21-0-18	Longblock for Industrial Engines



26598

Ref	Part No.	Qty	Description	Notes
1	3801514	1	Longblock · Bulletin P-21-0-18	Longblock for Industrial Engines

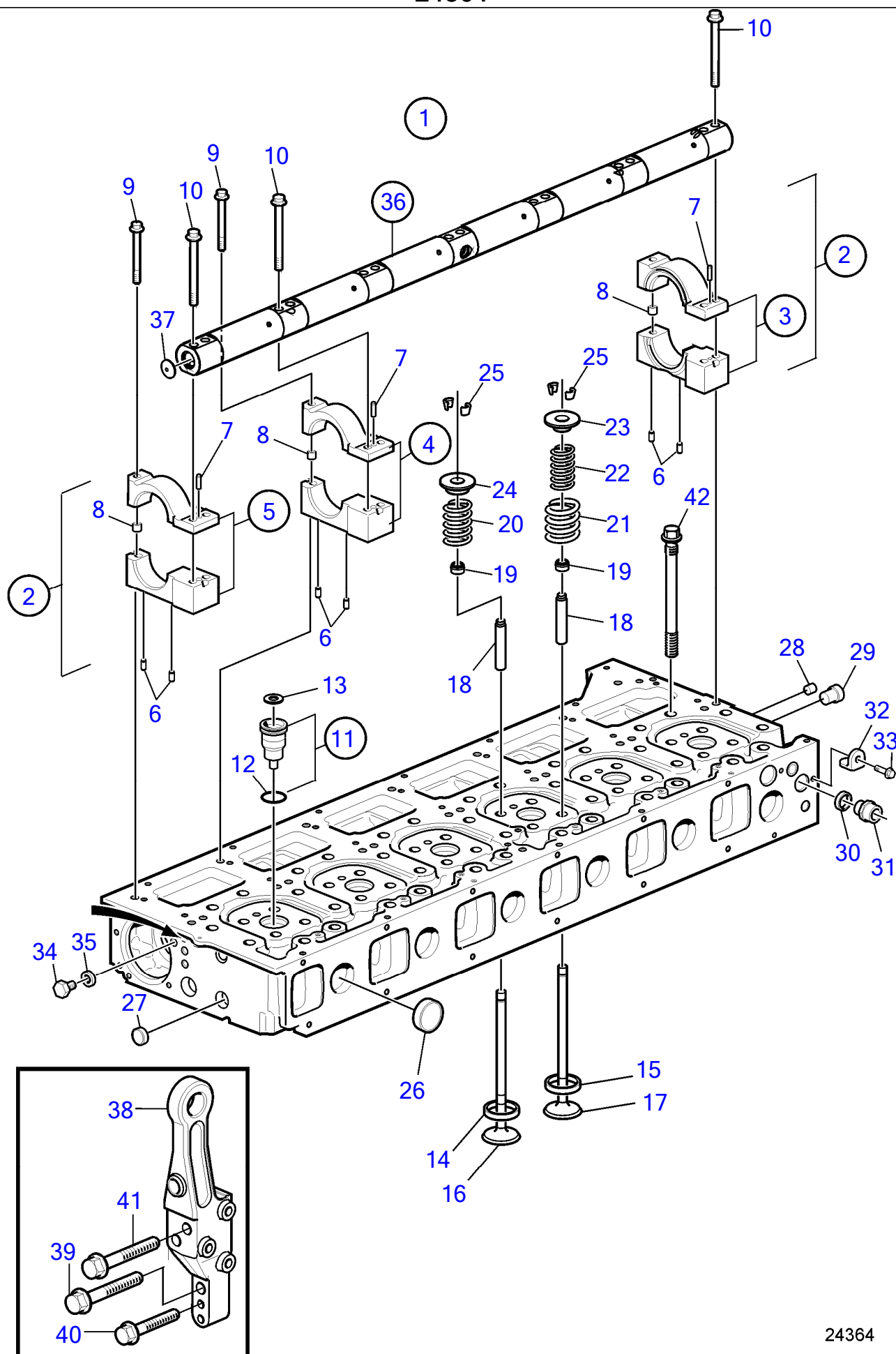


26598

21 Long Block, Exchange

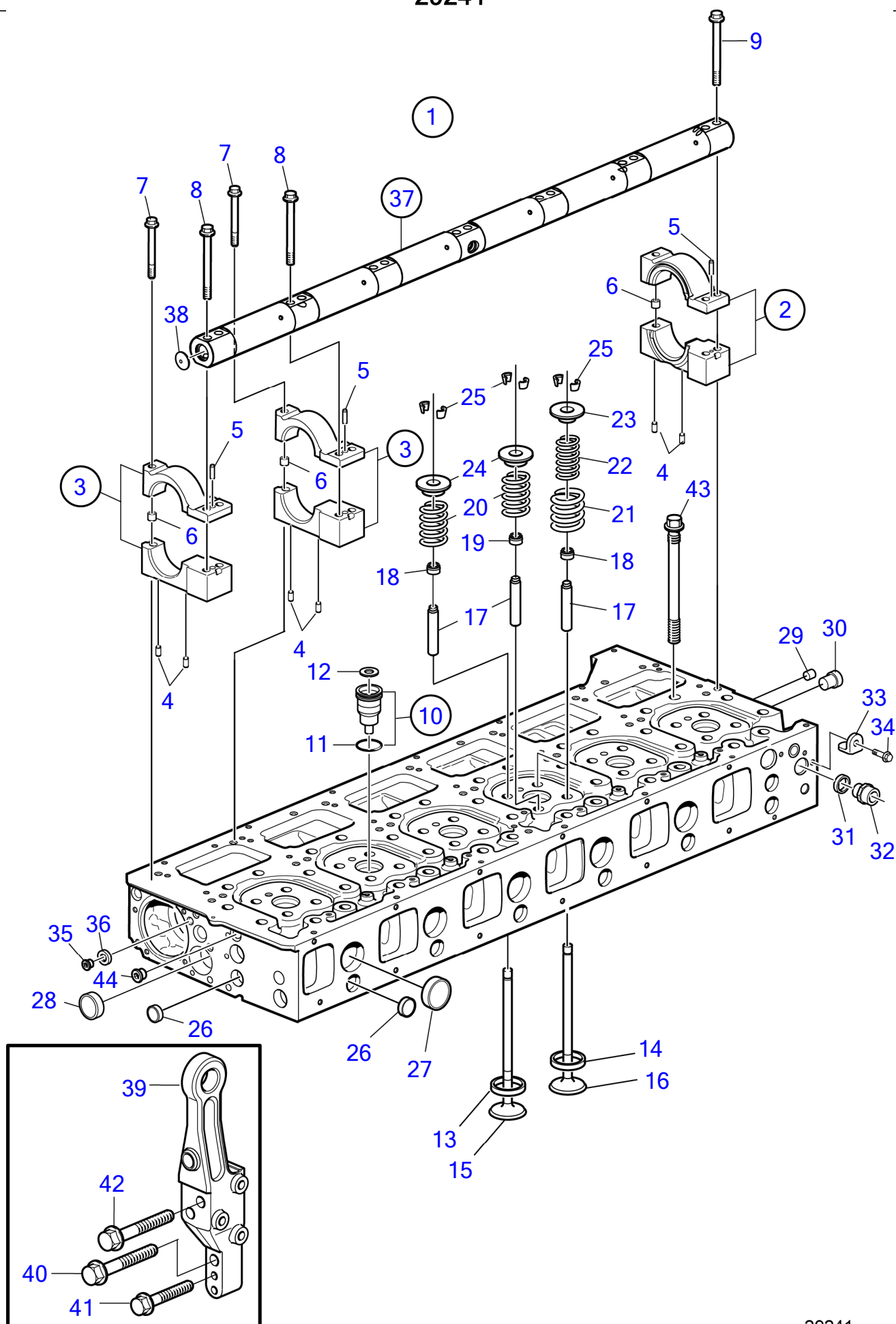
TAD1660VE, TAD1661VE, TAD1662VE

Ref	Part No.	Description	Notes
1	3801515	Longblock • Bulletin P-21-0-18	Longblock for Industrial Engines



Ref	Part No.	Qty	Description	
1	3801395	1	Cylinder head	
	21462839	1	Cylinder head	
2	3184068	1	• Bearing housing, Set	SN-2016010030,When replacing one or more bearing houses the first time, all
3	3184012	1	• • Bearing housing, Rear	SN-2016010030,When replacing one or more bearing houses the first time, all
4	3184015	5	• • Bearing housing, no. 2-6	SN-2016010030,When replacing one or more bearing houses the first time, all
5	3184018	1	• • Bearing housing, front	SN-2016010030,When replacing one or more bearing houses the first time, all
6	950562	14	• • • Pin	
7	1636468	7	• • • Sleeve	
8	950542	7	• • • Pin	
9	975105	7	• Flange screw	
10	20533693	14	• Flange screw	
11	21098621	6	• Injector sleeve	Replaced by 21351717
	21351717	6	• Injector sleeve	
			• Bulletin P-21-1-2	New Copper Sleeves to the Unit Injectors (3165747)
12	20536487	1	• • O-ring	
13	21261987	1	• • Washer	
			• Bulletin P-21-1-2	New Copper Sleeves to the Unit Injectors
14	3965955	12	• Valve seat	
15	8131798	12	• Valve seat	
16	20735572	12	• Inlet valve	
17	20513285	12	• Exhaust valve	
18	20562837	24	• Valve guide	Replaced by 21067953
	21067953	24	• Valve guide	
19	8131799	24	• Valve stem seal	
20	22527820	12	• Valve spring	
21	21448332	12	• Valve spring	Replaced by 22807212
	22807212	12	Valve spring	
22	21324296	12	• Valve spring	
23	20551396	12	• Valve spring washer	
24	20551394	12	• Valve spring washer	
25	8170995	48	• Valve collet	
26	8130035	12	• Expansion plug	
27	8131706	4	• Expansion plug	
28	968062	1	• Plug	
29	20496040	1	• Cap plug	
30	1547252	1	• Sealing ring	
31	1546528	1	• Plug	
32	1546531	1	• Lock brace	
33	984732	1	• Flange screw	
34	965768	1	• Plug	
35	18665	1	• Gasket	
36	8131192	1	Rocker arm shaft	
37	955096	2	• Expansion plug	
38		1	Lifting eye	
39	984850	1	Flange screw	
40	973924	1	Flange screw	
41	965196	2	Flange screw	
42	1547040	38	Flange screw	L=187mm

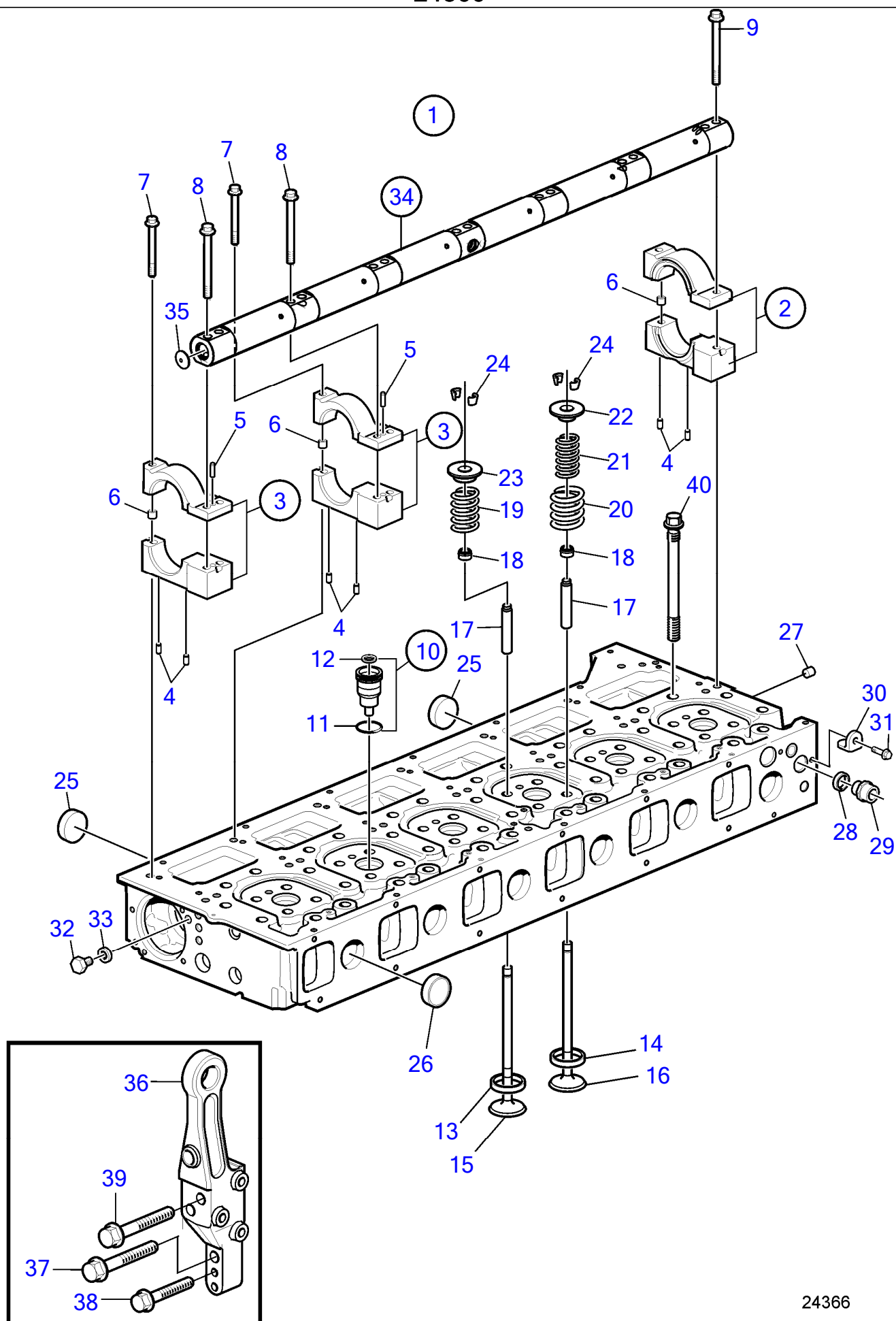
TAD1641VE, TAD1642VE, TAD1643VE, TAD1650VE, TAD1660VE, TAD1661VE,
TAD1662VE, TAD1640VE-B, TAD1641VE-B, TAD1642VE-B, TAD1660-62VE
29241



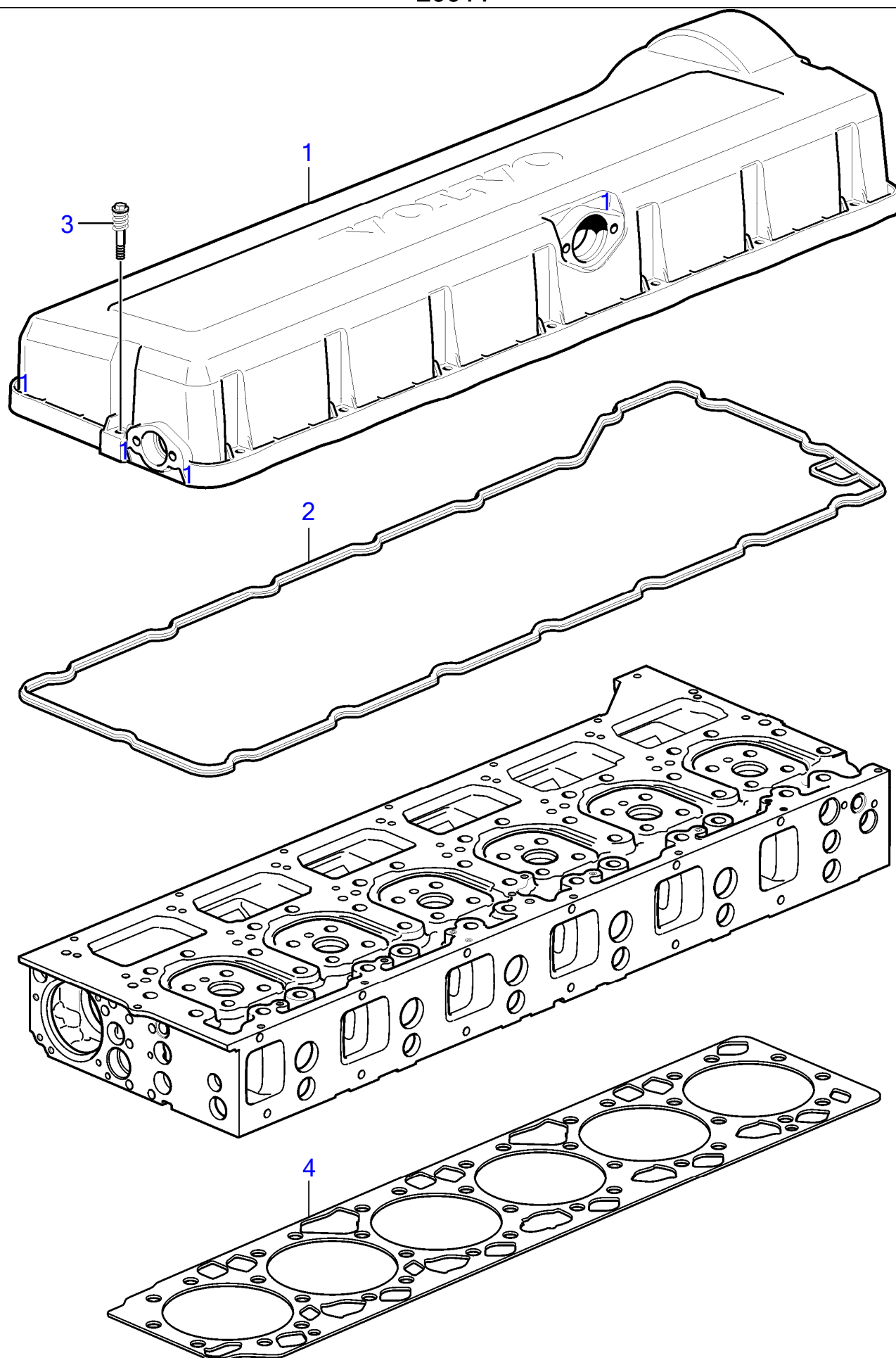
21 Cylinder Head SN2016010025-

TAD1641VE, TAD1642VE, TAD1643VE, TAD1660VE, TAD1661VE, TAD1662VE, TAD1640VE-B,
TAD1641VE-B, TAD1642VE-B

Ref	Part No.	Qty	Description	Notes
1	3801394	1	Cylinder head	Replaced by 3801605
	3801605	1	Cylinder head, exch	
	22216118	1	Cylinder head	
2	20946876	1	• Bearing housing	See Camshaft Section
3	20946882	6	• Bearing housing	See Camshaft Section
4	422426	14	• • Pin	
5	950550	6	• • Pin	
6	1546484	7	• • Pivot pin	
7	975105	7	• Flange screw	
8	20533693	12	• Flange screw	
9	20412482	1	• Flange screw	
10	21351717	6	• Injector sleeve	
			• Bulletin P-21-1-2	New Copper Sleeves to the Unit Injectors (3165747)
11	20536487	1	• • O-ring	
12	21261987	1	• • Washer	
			• Bulletin P-21-1-2	New Copper Sleeves to the Unit Injectors
13	20709467	12	• Valve seat, intake	SN-2016074098
	21780358	12	• Valve seat	SN2016074099-
14	20527407	12	• Valve seat, exhaust	SN-2016074098
	22059584	12	• Valve seat	SN2016074099-
15	20739057	12	• Inlet valve	
16	20513285	12	• Exhaust valve	
17	20916916	24	• Valve guide	
18	20924435	18	• Valve stem seal	Brown
19	22612096	6	• Valve stem seal	Blue, Replaced by 22890696
	22890696	6	• Valve stem seal	Blue
20	21326667	12	• Valve spring	
21	21448332	12	• Valve spring	Replaced by 22807212
	22807212	12	• Valve spring	
22	21324296	12	• Valve spring	
23	20551396	12	• Valve spring washer	
24	20551394	12	• Valve spring washer	
25	8170995	48	• Valve collet	
26	24426721	16	• Expansion plug	D=29mm
27	24426722	6	• Expansion plug	D=40mm
28	24426723	6	• Expansion plug	D=50mm
29	968062	1	• Plug	
30	20496040	1	• Cap plug	
31	1547252	2	• Sealing ring	
32	20845995	2	• Plug	
33	20844430	1	• Lock brace	
34	947107	1	• Flange screw	
35	965768	1	• Plug	M10
36	18665	1	• Gasket	For 966142
	11994	1	• Gasket	For 965768
37	24426580	1	Rocker arm shaft	
38	955096	2	• Expansion plug	
39		1	Lifting eye	
40	965193	1	Flange screw	
41	973924	1	Flange screw	
42	965196	2	Flange screw	
43	21345129	38	Flange screw	L=187mm
44	966142	1	Plug	M12



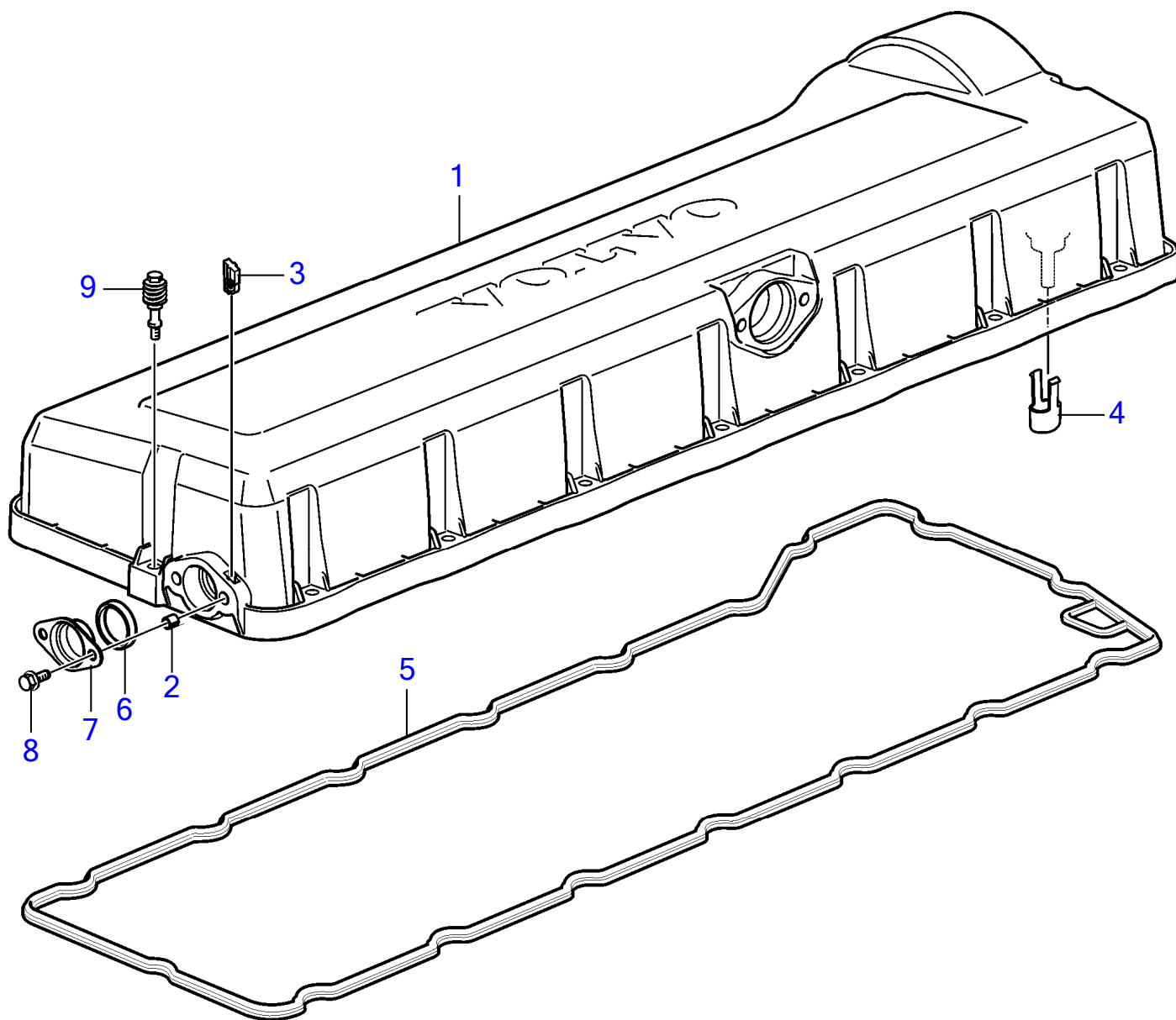
Ref	Part No.	Qty	Description	Notes
1	3801357	1	Cylinder head	
	21331714	1	Cylinder head	
	3801357	1	Cylinder head, exch	
2	20946876	1	• Bearing housing	See Camshaft Section
3	20946882	6	• Bearing housing	See Camshaft Section
4	422426	14	• • Pin	
5	950550	6	• • Pin	
6	1546484	7	• • Pivot pin	
7	975105	7	• Flange screw	
8	20533693	12	• Flange screw	
9	20412482	1	• Flange screw	
10	85104134	6	• Copper sleeve kit	
11	20536487	1	• • O-ring	(3165747)
12	21261987	1	• • Washer	
			• Bulletin P-21-1-2	New Copper Sleeves to the Unit Injectors
13	20709467	12	• Valve seat	SN-2016074098
	21780358	12	• Valve seat	SN2016074099-
14	20527407	12	• Valve seat	SN-2016074098
	22059584	12	• Valve seat	SN2016074099-
15	20739057	12	• Inlet valve	
16	20513285	12	• Exhaust valve	
17	20916916	24	• Valve guide	Replaced by 21067953
	21067953	24	• Valve guide	
18	20924435	24	• Valve stem seal	
19	22527820	12	• Valve spring	
20	21476570	12	• Valve spring	
21	21324296	12	• Valve spring	
22	20551396	12	• Valve spring washer	
23	8131328	12	• Valve spring washer	
24	8170995	48	• Valve collet	
25	24426721	16	• Expansion plug	D=29mm
	24426723	5	• Expansion plug	D=50mm
	24426722	7	• Expansion plug	D=40mm
27	968062	1	• Plug	
28	1547252	2	• Sealing ring	
29	20845995	2	• Plug	
30	20844430	1	• Lock brace	
31	984732	1	• Flange screw	
32	965768	1	• Plug	M10
	966142	1	• Plug	M12
33	18665	1	• Gasket	For 966142
	11994	1	• Gasket	For 965768
34	24426580	1	Rocker arm shaft	
35	955096	2	• Expansion plug	
36		1	Lifting eye	
37	984850	1	Flange screw	
38	973924	1	Flange screw	
39	965196	2	Flange screw	
40	1547040	38	Flange screw	L=187mm



21 Valve Cover

TAD1641VE, TAD1642VE, TAD1643VE, TAD1660VE, TAD1661VE, TAD1662VE, TAD1640VE-B,
TAD1641VE-B, TAD1642VE-B

Ref	Part No.	Qty	Description	Notes
1	20709580	1	Valve cover	SN2016007732-
2	20736230	1	Sealing strip	
3	20739547	17	Flange screw	
4	20738123	1	Cylinder head gasket	SN-2016010024
	20725045	1	Cylinder head gasket	SN2016010025- Replaced by 21313541
	21313541	1	Cylinder head gasket	

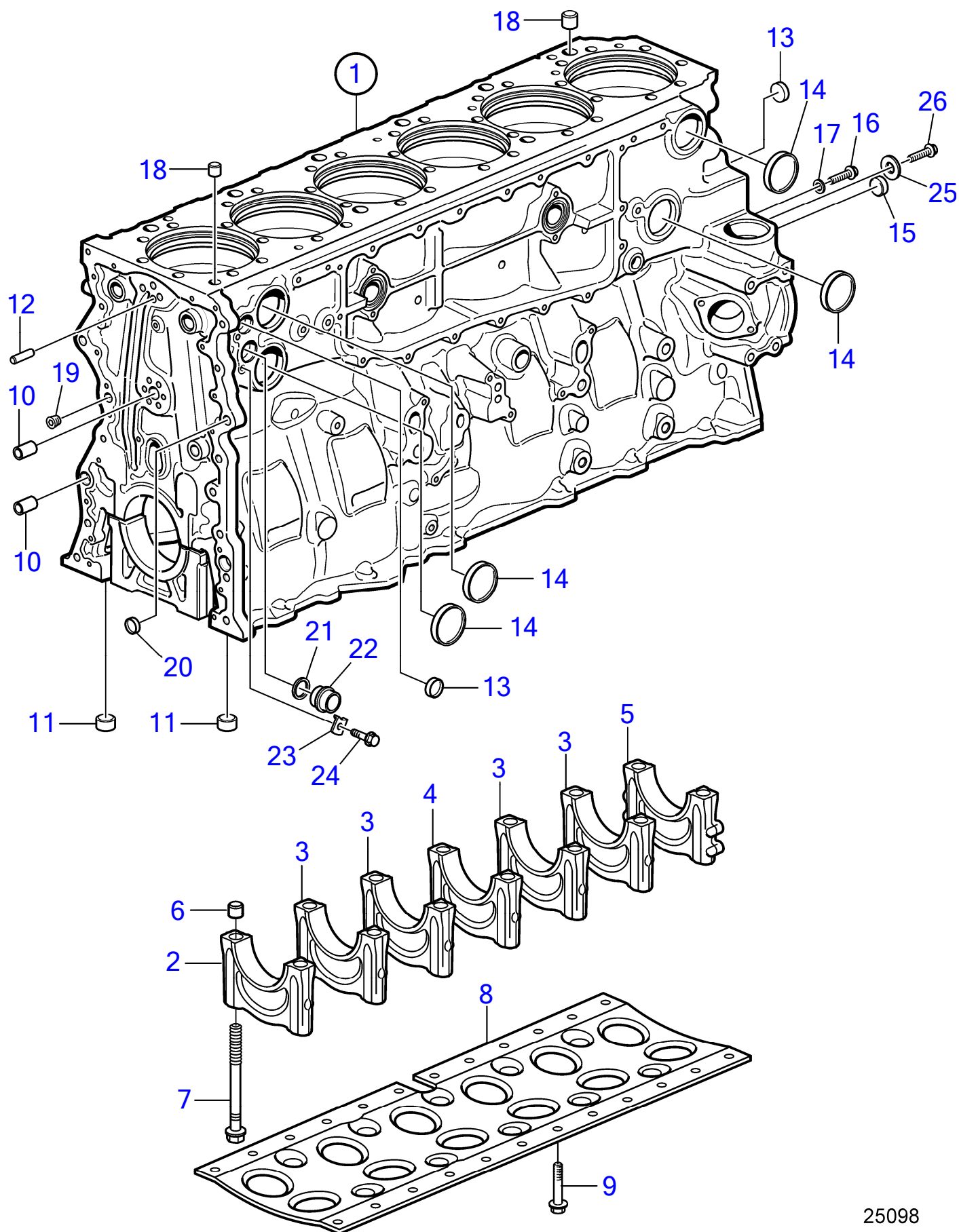


24296

21 Valve Cover

TAD1650VE

Ref	Part No.	Qty	Description	Notes
1	20709580	1	Valve cover	SN2016007732-
2	20450320	1	Spacer sleeve	
3	24427518	1	Nut washer	
4	8131751	1	Draining bowl	
5	20736230	1	Sealing strip	
6	20555696	1	Sealing ring	
7	3964803	1	Plug	
8	984733	2	Flange screw	
9	20463185	17	Flange screw	



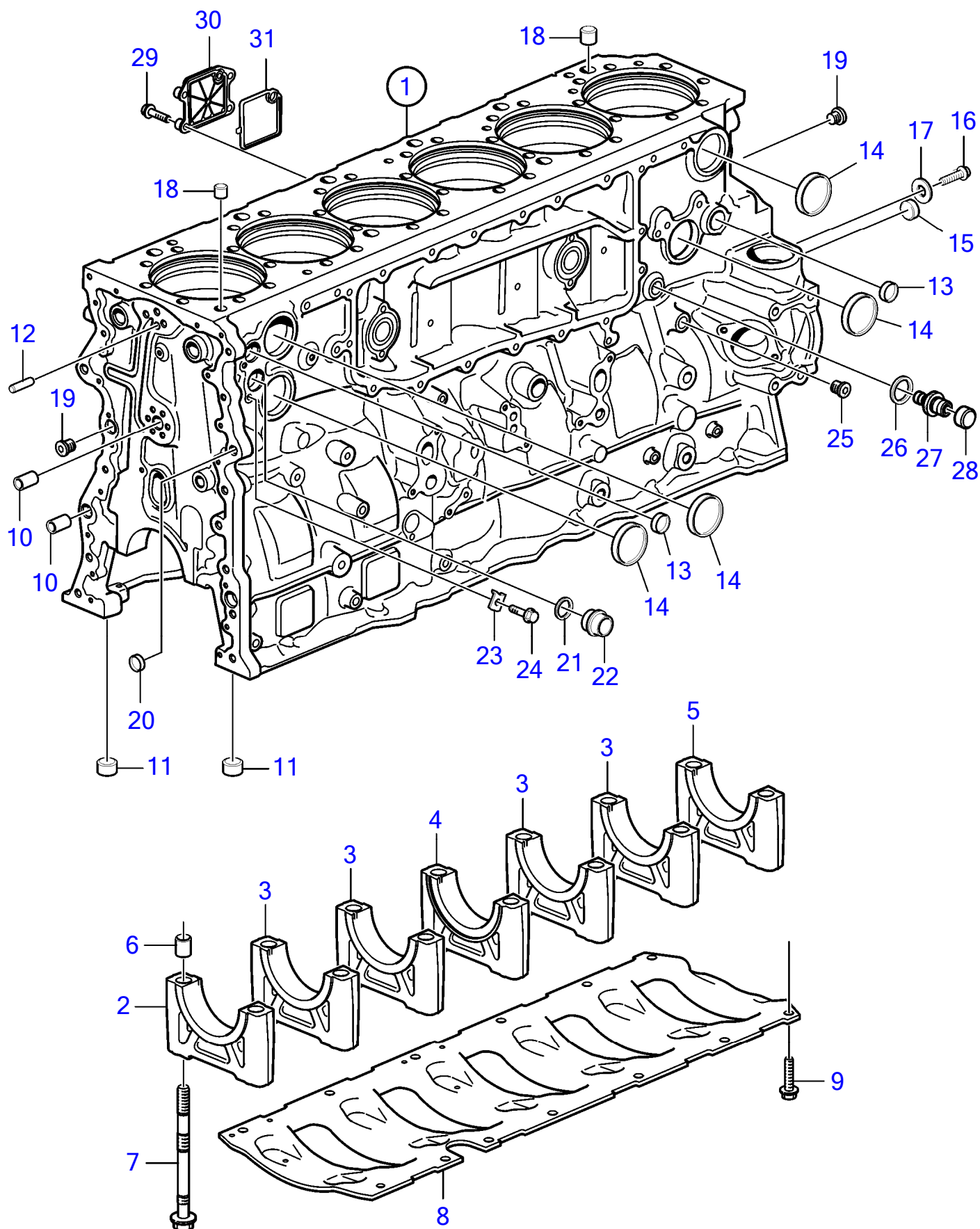
25098

21 Cylinder Block SN-2016010024

TAD1641VE, TAD1642VE

Ref	Part No.	Qty	Description	Notes
1	20521356	1	Cylinder block	
2		1	• Main bearing cap	
3		4	• Main bearing cap	
4		1	• Main bearing cap	
5		1	• Main bearing cap	
6	8131967	14	• Guide sleeve	
7	20581443	14	• Flange screw	(1543412)
8	20722628	1	Frame	
9	975110	13	Flange screw	
10	8131145	2	Guide sleeve	
11	417588	2	Guide sleeve	
12	950588	1	Pin	
13	1546528	1	Plug	
14	8131937	4	Expansion plug	
15	20562189	2	Plug	
16	966378	1	Flange screw	M8x16mm
17	976944	1	Washer	
18	20485996	2	Pin	
19	20529445	2	Plug	
20	20562189	1	Plug	
21	471708	1	Rubber moulding	
22	20381177	1	Plug	
23	1546531	1	Lock brace	
24	984733	1	Flange screw	
25	976944	1	Washer	
26	966378	1	Flange screw	

TAD1641VE, TAD1642VE, TAD1643VE, TAD1650VE, TAD1660VE, TAD1661VE,
TAD1662VE, TAD1640VE-B, TAD1641VE-B, TAD1642VE-B, TAD1660-62VE
23131



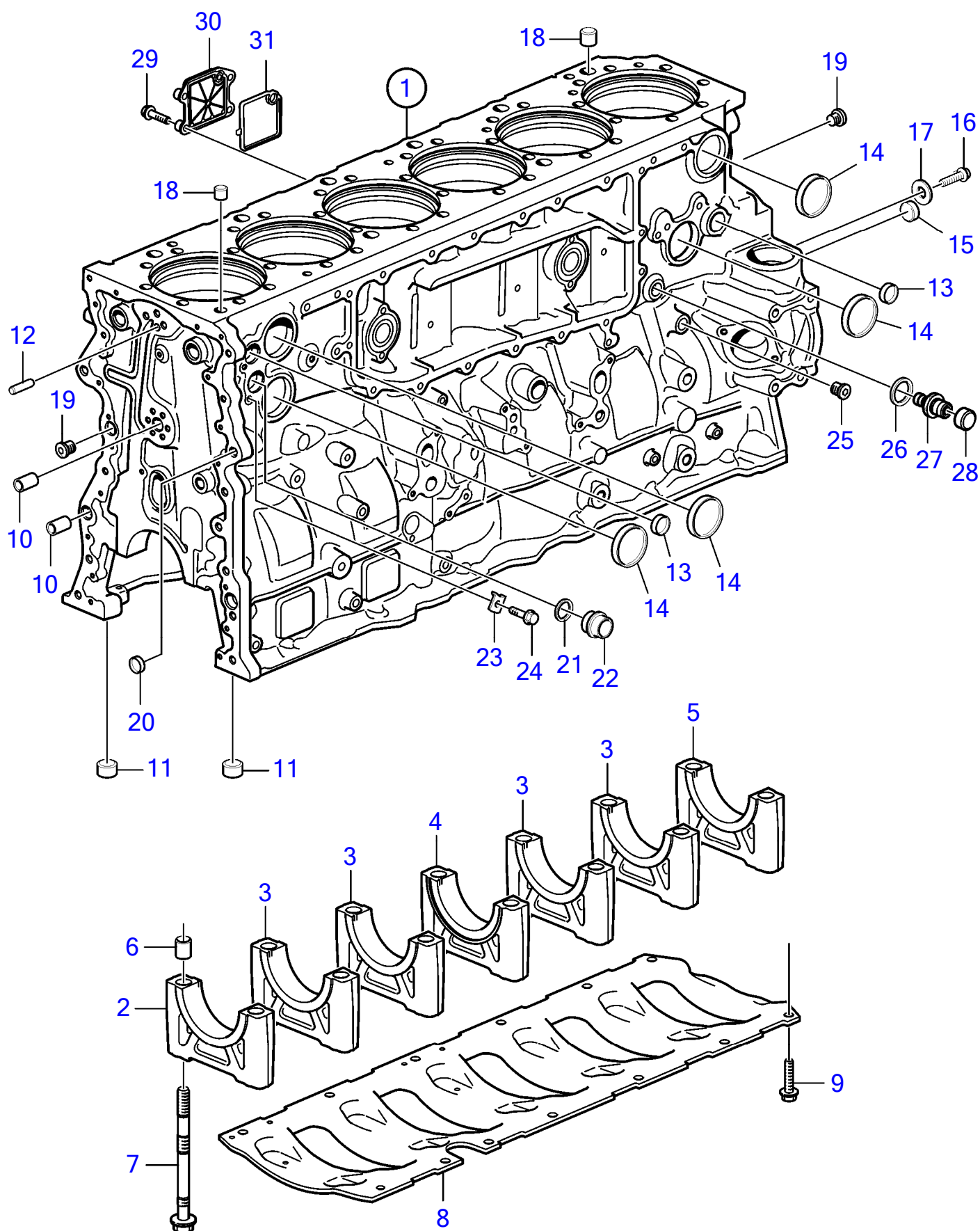
23131

21 Cylinder Block SN2016010025-

TAD1641VE, TAD1642VE, TAD1643VE, TAD1660VE, TAD1661VE, TAD1662VE, TAD1640VE-B,
TAD1641VE-B, TAD1642VE-B

Ref	Part No.	Qty	Description	Notes
1	21341905	1	Cylinder block	Replaced by 21801441
	21801441	1	Cylinder block	
2		1	• Main bearing cap	
3		4	• Main bearing cap	
4		1	• Main bearing cap	
5		1	• Main bearing cap	
6	8131967	14	• Guide sleeve	
7	20581443	14	• Flange screw	(1543412)
8	20722628	1	Frame	
9	975110	13	Flange screw	
10	8131145	2	Guide sleeve	
11	417588	2	Guide sleeve	
12	950588	1	Pin	
13	24426721	2	Expansion plug	
14	8131937	4	Expansion plug	
15	20562189	2	Plug	
16	966378	1	Flange screw	M8x16mm
17	976944	1	Washer	
18	20485996	2	Pin	
19	20529445	2	Plug	
20	20562189	1	Plug	
21	471708	2	Rubber moulding	
22	20381177	2	Plug	
23	20718731	2	Yoke	
24	984733	2	Flange screw	
25	984793	1	Plug	
26	979099	1	Gasket	
27	1676622	1	Nipple	
28	476279	1	Protecting cap	
29	984735	4	Flange screw	
30	20533497	1	Cap	
31	20532891		Gasket	

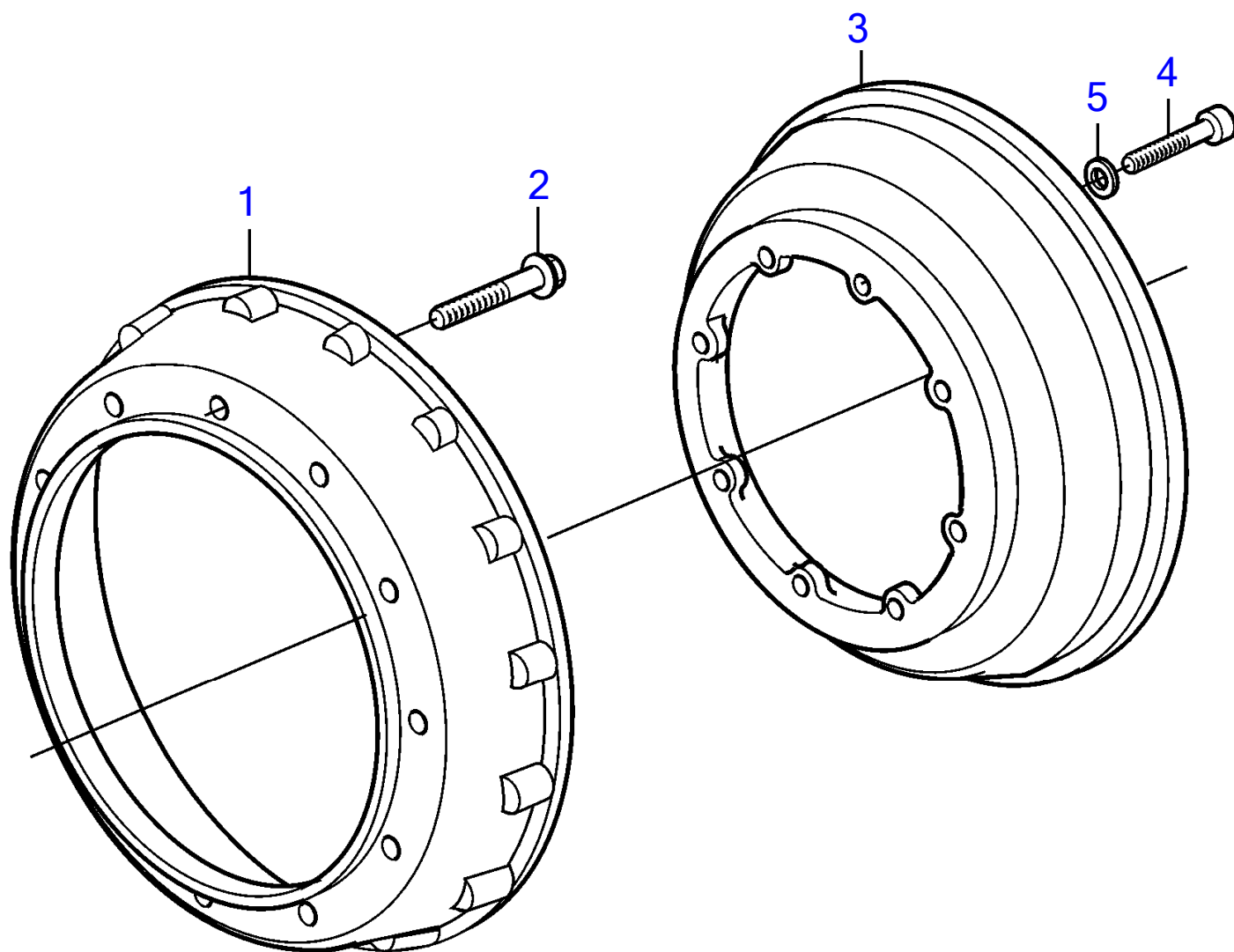
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TAD1662VE, TAD1640VE-B, TAD1641VE-B, TAD1642VE-B, TAD1660-62VE
23131



23131

21 Cylinder Block
TAD1650VE

Ref	Part No.	Qty	Description	Notes
1	20742700	1	Cylinder block	
2		1	• Main bearing cap	
3		4	• Main bearing cap	
4		1	• Main bearing cap	
5		1	• Main bearing cap	
6	8131967	14	• Guide sleeve	
7	20581443	14	• Flange screw	(1543412)
8	20722628	1	Frame	
9	975110	13	Flange screw	
10	8131145	2	Guide sleeve	
11	417588	2	Guide sleeve	
12	950588	1	Pin	
13	20845995	1	Plug	
14	8131937	4	Expansion plug	
15	20562189	2	Plug	
16	966378	1	Flange screw	M8x16mm
17	976944	1	Washer	
18	20485996	2	Pin	
19	20529445	2	Plug	
20	20562189	1	Plug	
21	471708	1	Rubber moulding	
22	20381177	1	Plug	
23	20718731	1	Yoke	
24	984733	1	Flange screw	
25	984793	1	Plug	
26	979099	1	Gasket	
27	1676622	1	Nipple	
28	476279	1	Protecting cap	
29	984735	4	Flange screw	
30	20533497	1	Cap	
31	20532891		Gasket	

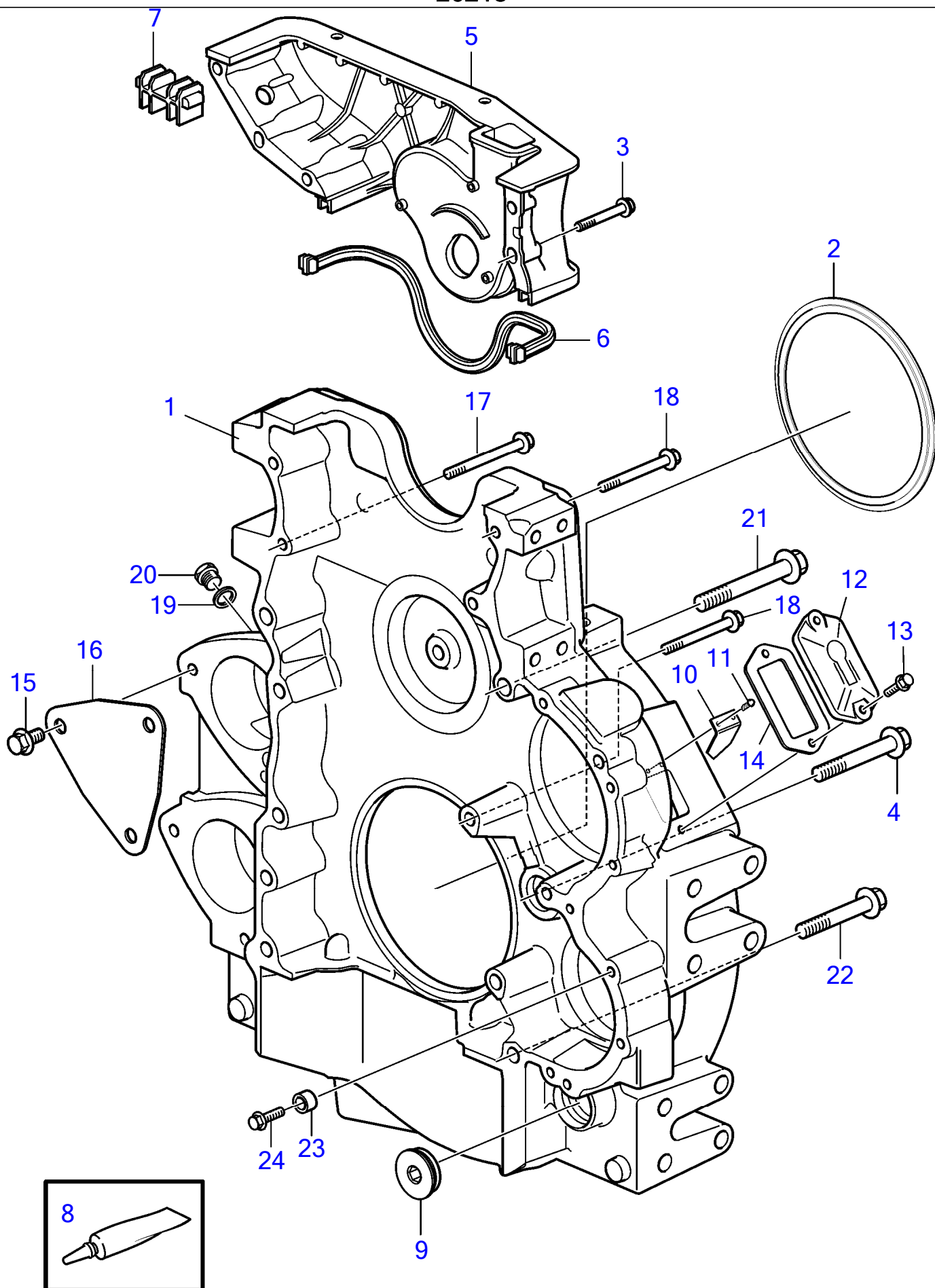


20889

21 Adapter Flywheel and Flywheelhousing SAE 0

TAD1641VE, TAD1642VE, TAD1643VE, TAD1660VE, TAD1661VE, TAD1662VE

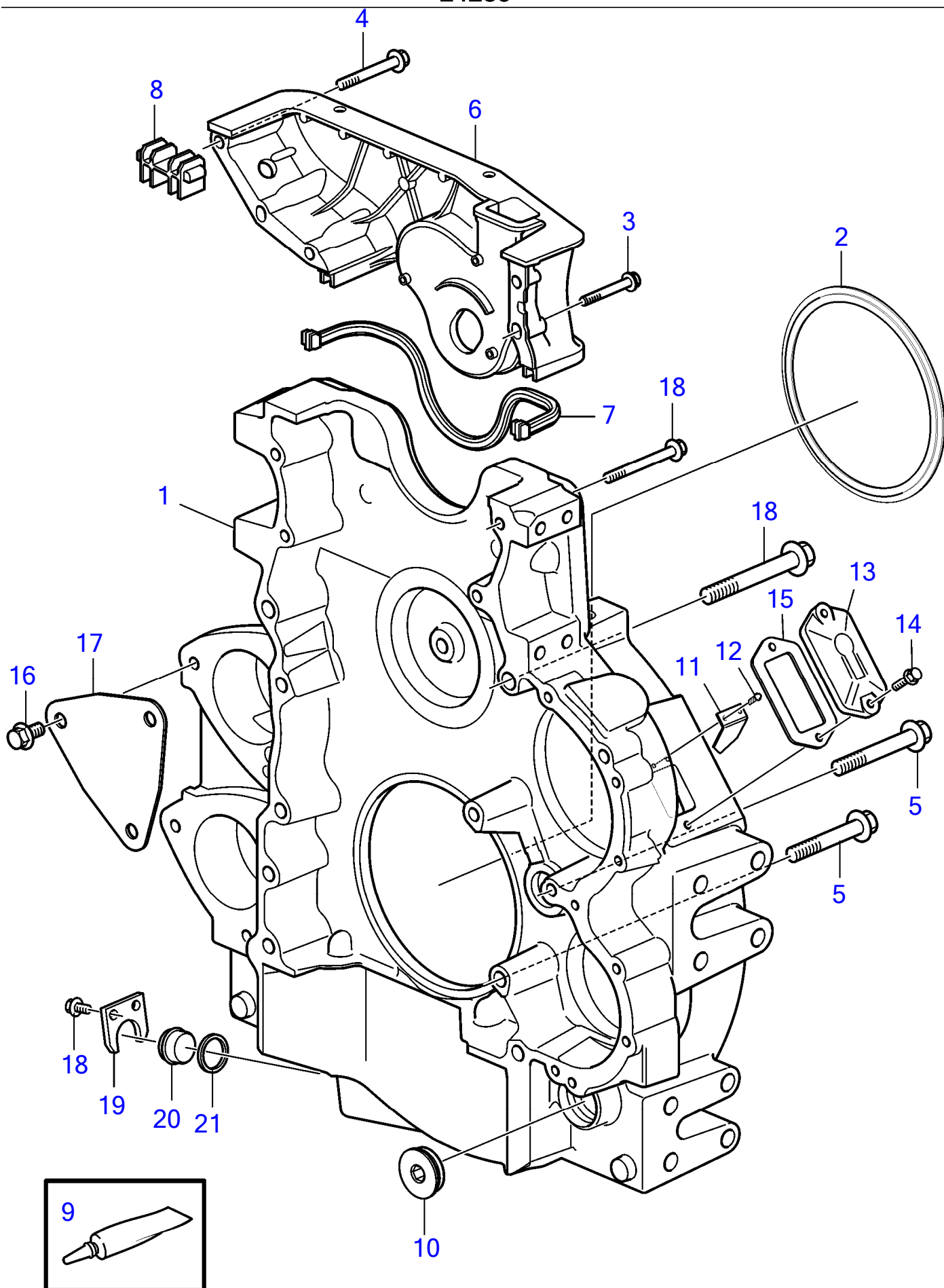
Ref	Part No.	Qty	Description	Notes
1	3826138	1	Adapter, flywheel cover	From SAE 1 to SAE 0.
2	984754	12	Flange screw	
3	3826137	1	Adapter, flywheel	From SAE 1 to SAE 0.
4	981744	8	Hex. socket screw	
5	18634	8	Washer	



21 Flywheel Housing

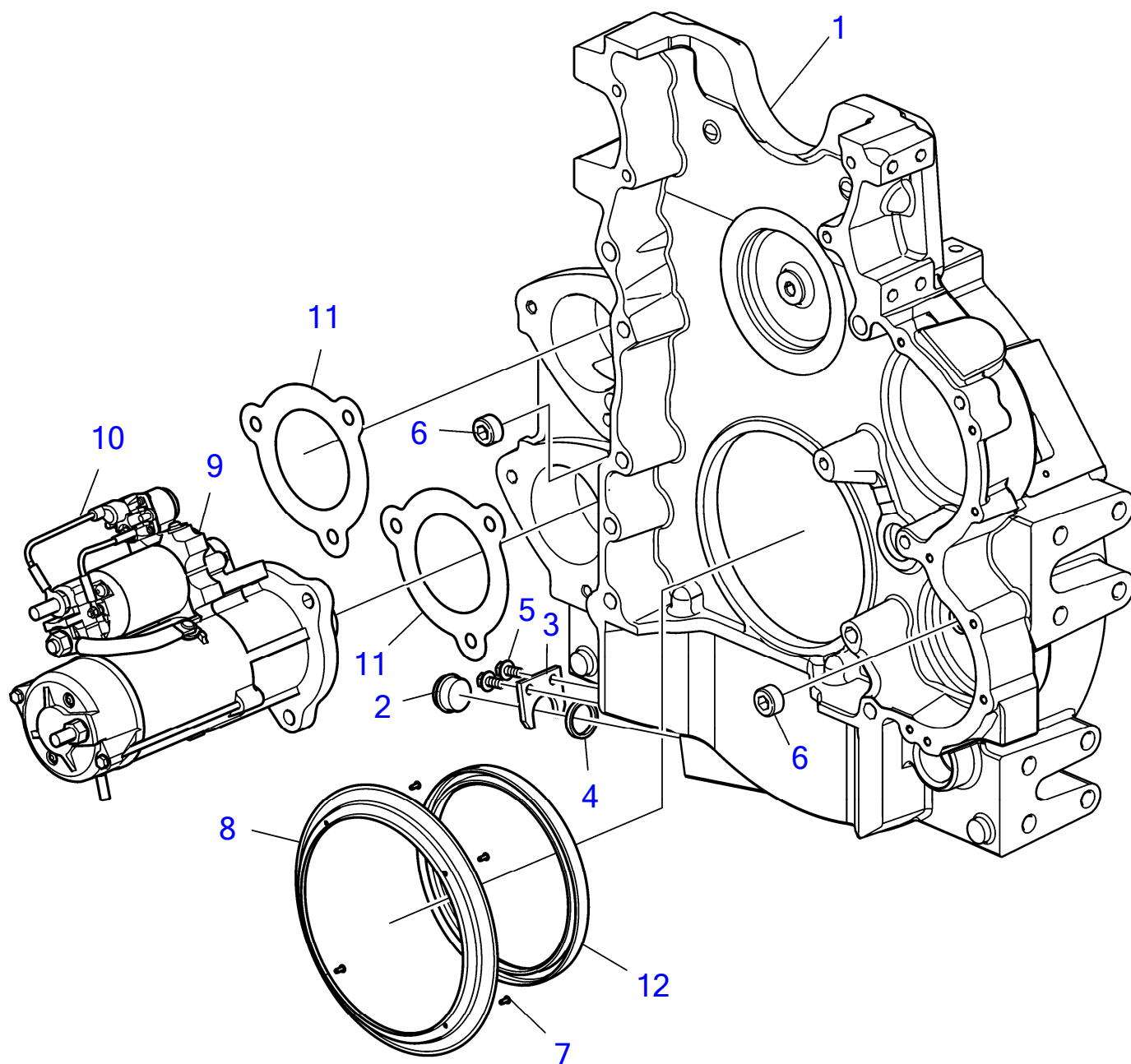
TAD1641VE, TAD1642VE, TAD1643VE, TAD1660VE, TAD1661VE, TAD1662VE, TAD1640VE-B,
TAD1641VE-B, TAD1642VE-B

Ref	Part No.	Qty	Description	Notes
1	3829060	1	Flywheel housing	Replaced by 21192873
	21192873	1	Flywheel housing	Replaced by 21586308
	21586308	1	Flywheel housing	Replaced by 22211004
	22211004	1	Flywheel housing	Replaced by 22569860
	22569860	1	Flywheel housing	
2	85108352	1	Crankshaft seal	SN-2016118292
	22191895	1	Crankshaft seal	SN2016118293-
3	984738	4	Flange screw	L=40mm
	984740	1	Flange screw	L=40mm
4	966367	1	Flange screw	M14x100mm
5	20853452	1	Timing gear cover	
6	20747434	1	Sealing strip	Replaced by 20815558
	20815558	1	Sealing strip	
7	20572441	2	Gasket	
8	1161231	X	Sealant	304ml
	1161277	X	Sealant	20g
9	15134976	1	Plug	
10	849405	1	Setting indicator	Obsolete part
11	905654	2	Drive screw	Obsolete part
12	4772168	1	Cover	
13	984726	2	Flange screw	
14	4804167	1	Gasket	
15	946502	7	Flange screw	
16	849135	1	Cover	
17	984762	2	Flange screw	L=110mm
18	984760	3	Flange screw	L=90mm
19	11998	1	Gasket	
20	966144	1	Plug	Obsolete part
21	975130	2	Flange screw	L=120mm
22	966366	6	Flange screw	L=90mm
23	948871	5	Spacer washer	
24	984736	5	Flange screw	L=90mm



21 Flywheel Housing
TAD1650VE

Ref	Part No.	Qty	Description	Notes
1	21193778	1	Flywheel housing	
2	85108352	1	Crankshaft seal	SN-2016118292
	22191895	1	Crankshaft seal	SN2016118293-
3	984738	4	Flange screw	L=40mm
4	984740	1	Flange screw	L=60mm
5	984760	5	Flange screw	M10x90mm
	966366	6	Flange screw	M14x90mm
	966367	1	Flange screw	M14x100mm
6	20853452	1	Timing gear cover	
7	20815558	1	Sealing strip	
8	20572441	2	Gasket	
9	1161231	X	Sealant	304ml
	1161277	X	Sealant	20g
10	467367	1	Plug	
11	849405	1	Setting indicator	Only together with 3848533
12	905654	2	Drive screw	Only together with 3848533
13	4772168	1	Cover	
14	984726	2	Flange screw	
15	4804167	1	Gasket	
16	946502	3	Flange screw	
17	849135	1	Cover	
18	966378	2	Flange screw	
19	11031769	1	Lock washer	Obsolete part
20	11031785	1	Plug	Obsolete part
21	421158	1	Sealing ring	

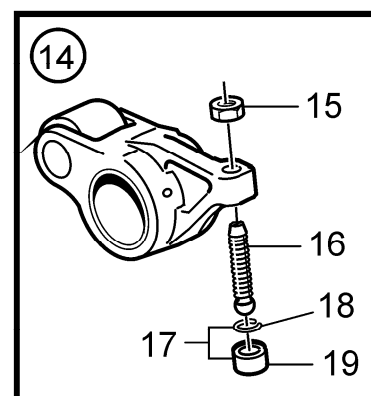
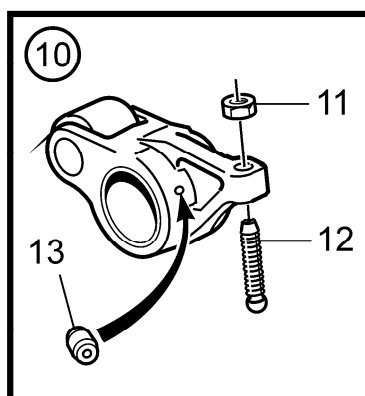
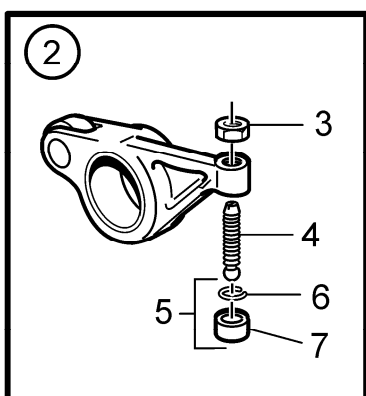
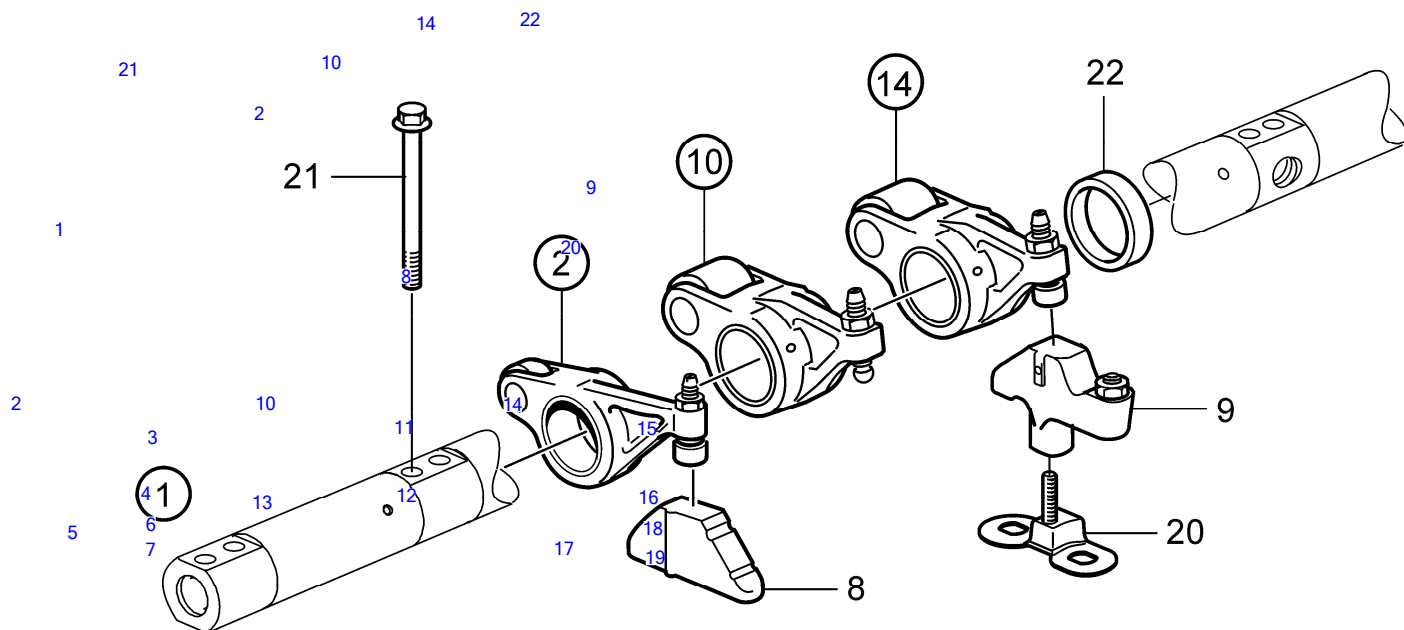


29104

21 Flywheel Housing Allison 5000/6000

TAD1641VE, TAD1642VE, TAD1643VE, TAD1650VE, TAD1660VE, TAD1661VE, TAD1662VE

Ref	Part No.	Qty	Description
1	78466891	1	Flywheel housing
2	11031785	1	• Plug
3	11031769	1	• Lock washer
4	421158	1	• Sealing ring
5	984733	2	• Flange screw
6	60112001	2	• Plug
7	905650	4	• Drive screw
8	15004855	1	• Oil deflector ring
9	17233221	1	Starter motor
10	17233221	1	• Starter motor
11	11127393	2	Gasket
12	17460059	1	Mounting ring

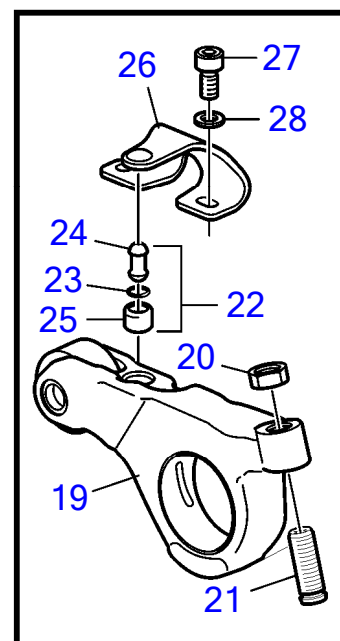
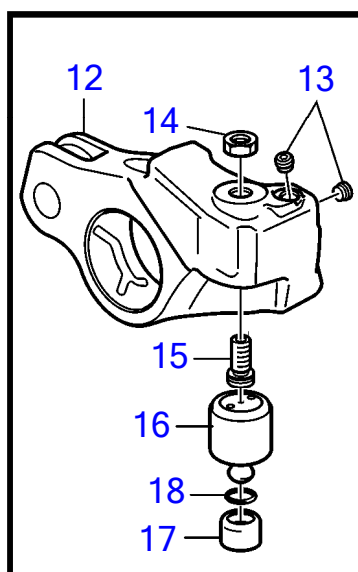
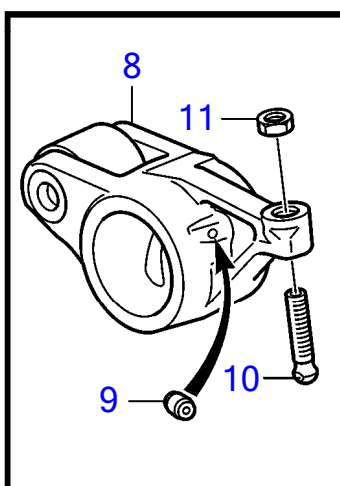
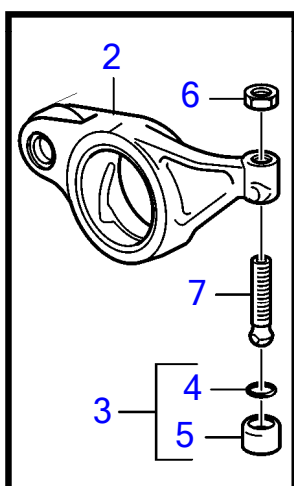
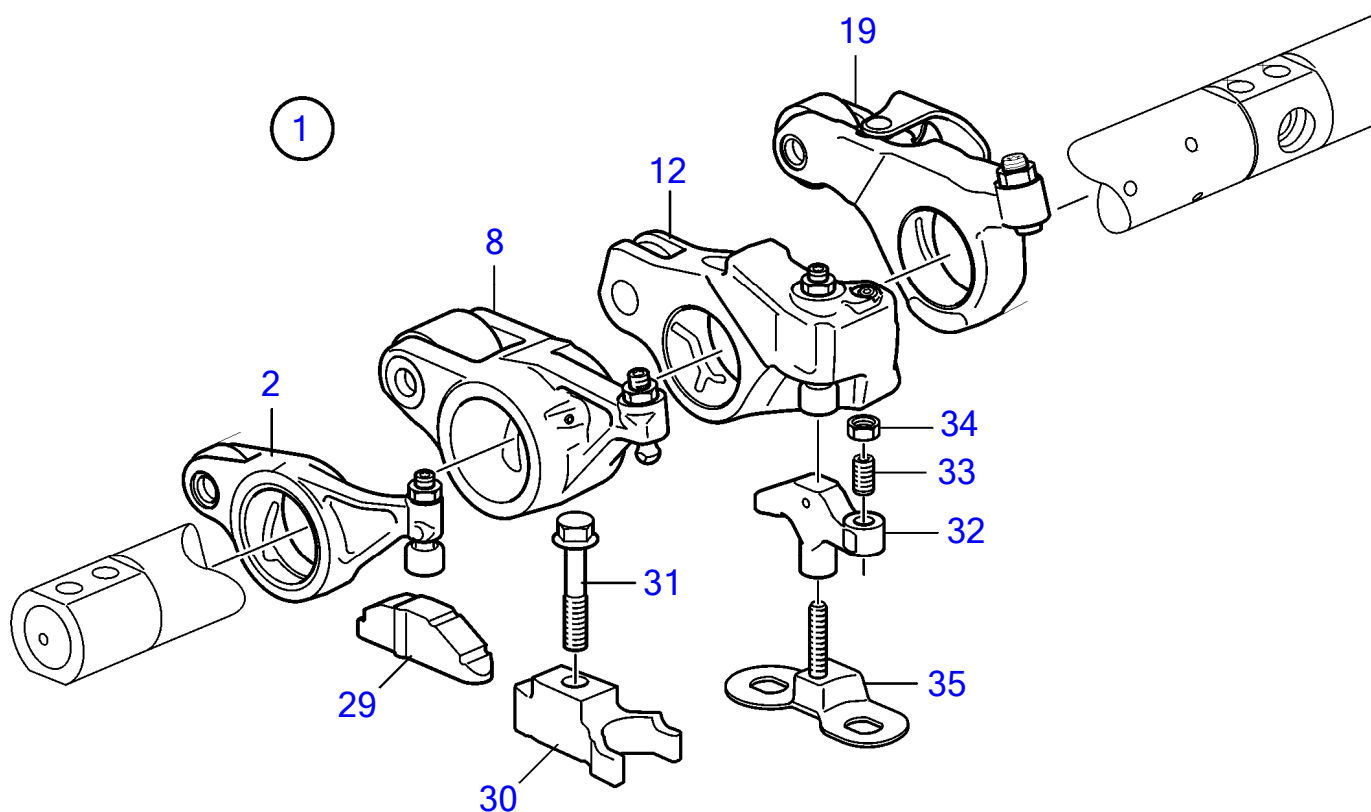


26458

21 Valve Mechanism. Standard

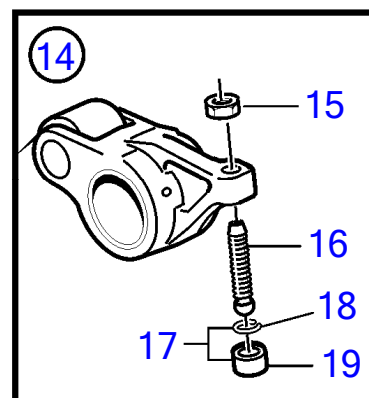
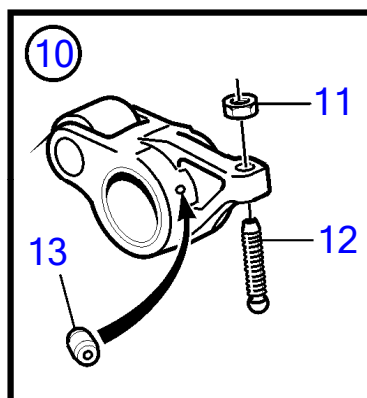
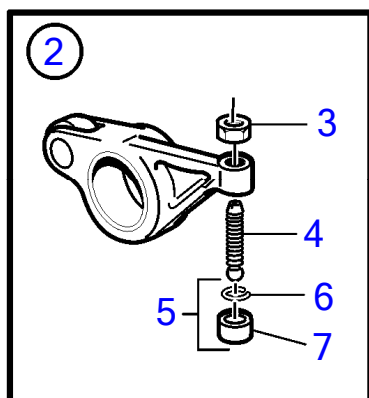
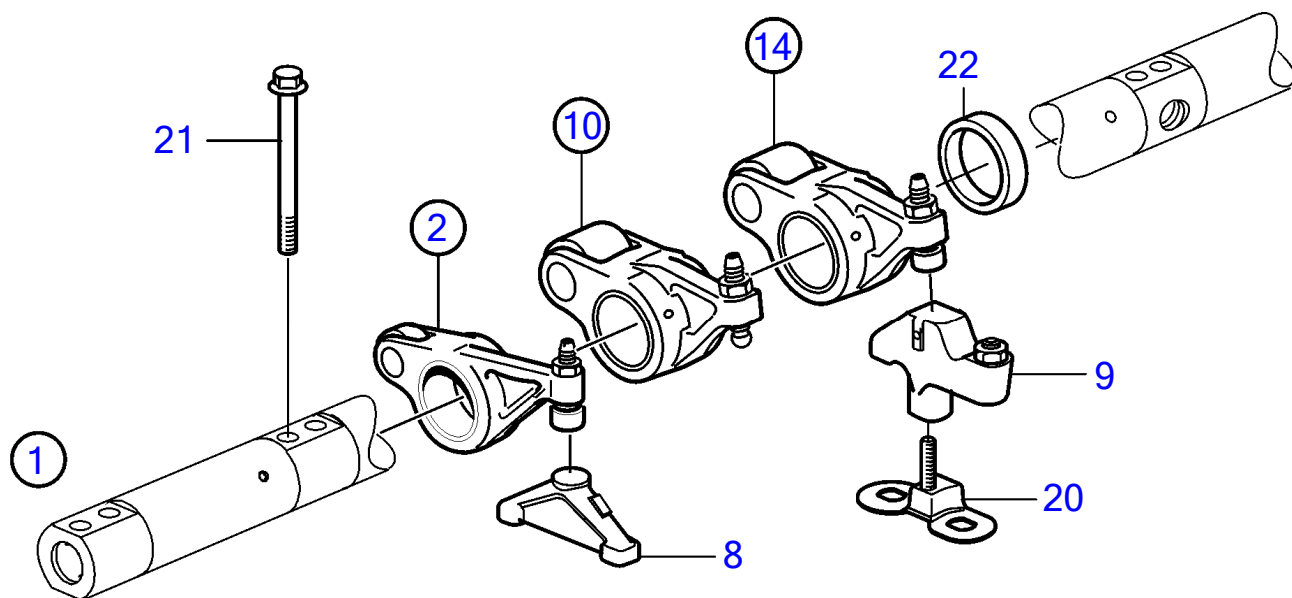
TAD1641VE, TAD1642VE, TAD1643VE

Ref	Part No.	Qty	Description	Notes
1			Rocker arm shaft	SN-2016010024
			Rocker arm shaft	SN2016010025-
2	20888104	6	Rocker arm, intake	SN-2016010024 Ceramic roller
	21282818	6	Rocker arm, intake	SN2016010025- Ceramic roller
	21415405	6	Rocker arm, intake	For VCB
3	946911	1	• Hexagon nut	
4	(20501055)	1	• Ball stud	Obsolete part
5	20441753	1	• Ball socket	
6	944364	1	• • O-ring	
7		1	• • Ball seat	
8	20463791	6	Valve yoke, intake	
9	20857578	6	Valve yoke, exhaust	(20554103)
10	21160989	6	Rocker arm, fuel injector	
	21132292	6	Rocker arm, fuel injector	For VCB
11	1677396	1	• Hexagon nut	
12	(20501057)	1	• Adjusting screw	Obsolete part
13	3964817	1	• Jet	
14	21282816	6	Rocker arm, exhaust	
15	946911	1	• Hexagon nut	
16	(20501055)	1	• Ball stud	Obsolete part
17	20441753	1	• Ball socket	
18	944364	1	• • O-ring	
19		1	• • Ball seat	
20	20554268	6	Guide pin	
21	20533693	14	Flange screw	
22	21402081	6	Spacer sleeve	



21 Valve Mechanism for VCB
TAD1650VE

Ref	Part No.	Qty	Description	Notes
1			Rocker arm shaft	
2	20887766	6	Rocker arm, intake	
3	20441753	1	• Ball socket	
4	944364	1	• • O-ring	
5		1	• • Ball seat	
6	946911	1	• Hexagon nut	
7	(20501055)	1	• Ball stud	Obsolete part
8	20888119	6	Rocker arm, injector	
9	3964817	1	• Jet	
10	(20501057)	1	• Adjusting screw	Obsolete part
11	1677396	1	• Hexagon nut	
12	21072069	6	Rocker arm, exhaust	
13		2	• Plug	
14	946911	1	• Hexagon nut	
15		1	• Adjusting screw	
16		1	• Piston	
17		1	• Ball socket	
18	944364	1	• • O-ring	
19	20964534	6	Rocker arm, exhaust	
20	1677396	1	• Hexagon nut	
21		1	• Adjusting screw	
22	20724261	1	• Ball socket	
23		1	• • O-ring	
24		1	• • Push rod	
25		1	• • Ball seat	
26	20724250	6	Leaf spring	Obsolete part
27	20775507	12	Hex. socket screw	
28		12	• Washer	
29	20554106	6	Valve yoke	
30	21168206	6	Yoke	
31	8131597	6	Flange screw	
32	20857578	6	Valve yoke	
33	20551362	6	• Adjusting screw	
34	946911	6	• Hexagon nut	
35	20554268	6	Guide pin	

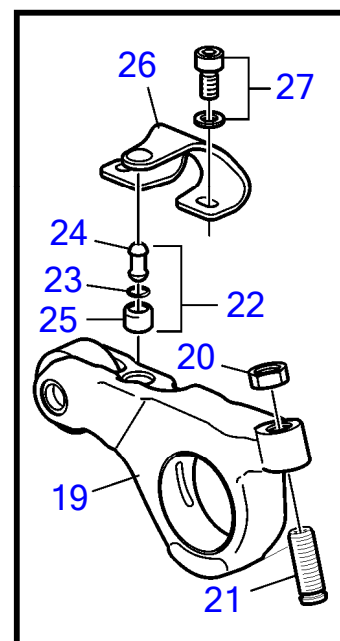
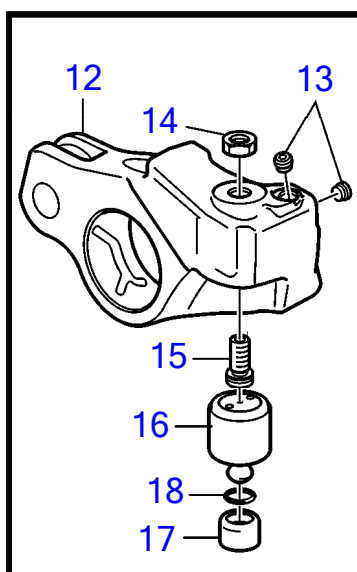
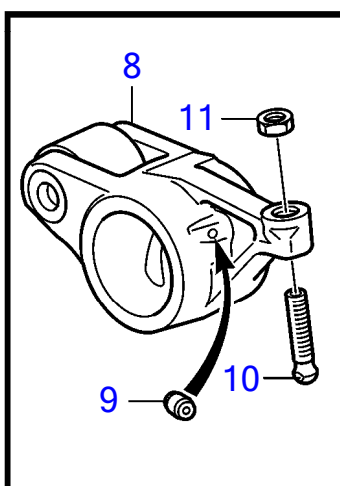
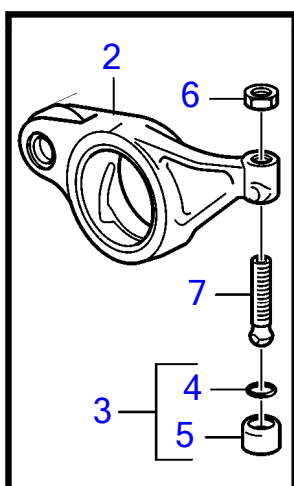
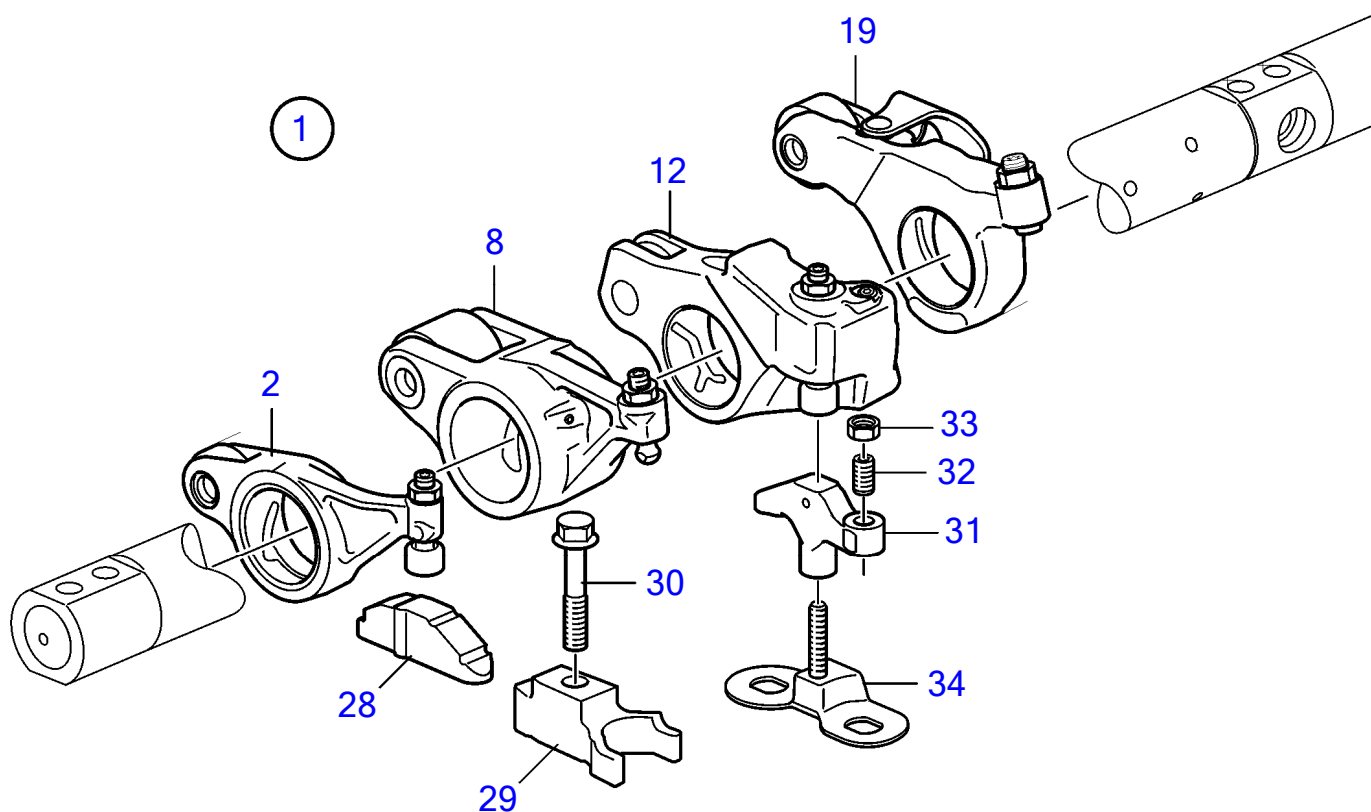


26463

21 Valve Mechanism. Standard

TAD1660VE, TAD1661VE, TAD1662VE

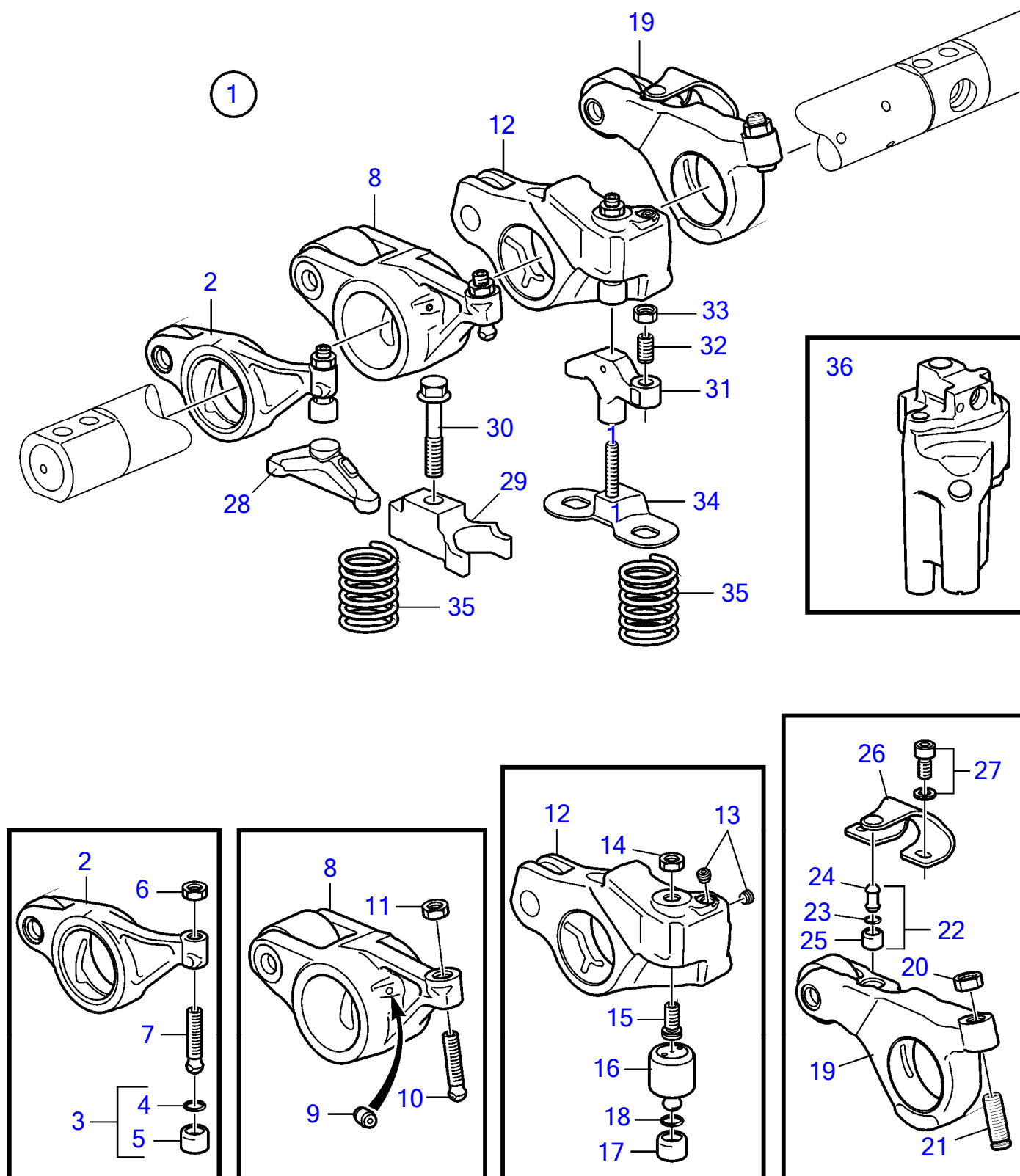
Ref	Part No.	Qty	Description	Notes
1			Rocker arm shaft	
2	21282818	6	Rocker arm, intake	
3	946911	1	• Hexagon nut	
4	(20501055)	1	• Ball stud	Obsolete part
5	21054149	1	• Ball socket	
6	944364	1	• • O-ring	
7		1	• • Ball seat	
8	21061323	6	Valve bridge, intake	
9	20857578	6	Valve yoke, exhaust	(20554103)
10	21160989	6	Rocker arm, fuel injector	
11	1677396	1	• Hexagon nut	
12	(20501057)	1	• Adjusting screw	Obsolete part
13	3964817	1	• Jet	
14	21282816	6	Rocker arm, exhaust	
15	946911	1	• Hexagon nut	
16	(20501055)	1	• Ball stud	Obsolete part
17	21054149	1	• Ball socket	
18	944364	1	• • O-ring	
19		1	• • Ball seat	
20	20554268	6	Guide pin	
21	20533693	14	Flange screw	
22	21402081	6	Spacer sleeve	



21 Valve Mechanism for VCB

TAD1660VE, TAD1661VE, TAD1662VE

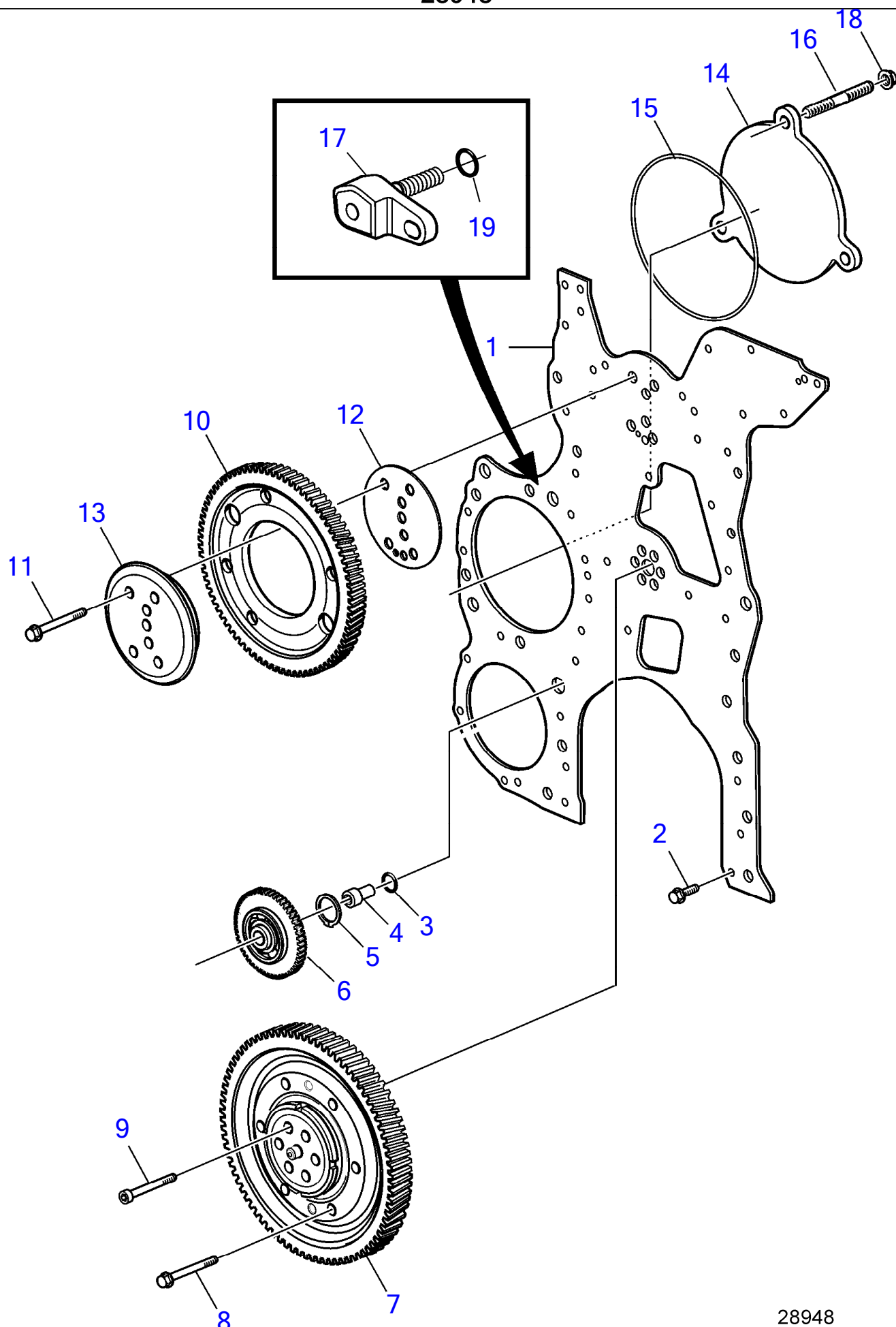
Ref	Part No.	Qty	Description	Notes
1			Rocker arm shaft	
2	21282818	6	Rocker arm, intake	
3	21054149	1	• Ball socket	
4	944364	1	• • O-ring	
5		1	• • Ball seat	Obsolete part
6	946911	1	• Hexagon nut	
7	(20501055)	1	• Ball stud	Obsolete part
8	21132292	6	Rocker arm, intake	
9	3964817	1	• Jet	
10	(20501057)	1	• Adjusting screw	Obsolete part
11	1677396	1	• Hexagon nut	
12	21595700	6	Rocker arm, exhaust	
13		2	• Plug	
14	946911	1	• Hexagon nut	
15		1	• Adjusting screw	
16		1	• Piston	
17	21054149	1	• Ball socket	
18	944364	1	• • O-ring	
19	21132342	6	Rocker arm, exhaust	
20	1677396	1	Hexagon nut	
21		1	Adjusting screw	
22	20724261	1	Ball socket	
23	976012	1	• O-ring	Obsolete part
24		1	• Push rod	
25		1	• Ball socket	
26	20724250	6	Leaf spring	Obsolete part
27	20775507	12	Hex. socket screw	
28	20554106	6	Valve yoke	
29	21168206	6	Yoke	Replaced by 21425162
	21425162	6	Yoke	
30	21344774	6	Flange screw	
31	20857578	6	Valve yoke	
32	20551362	1	• Adjusting screw	
33	946911	1	• Hexagon nut	
34	20554268	6	Guide pin	



21 Valve Mechanism for VCB

TAD1640VE-B, TAD1641VE-B, TAD1642VE-B

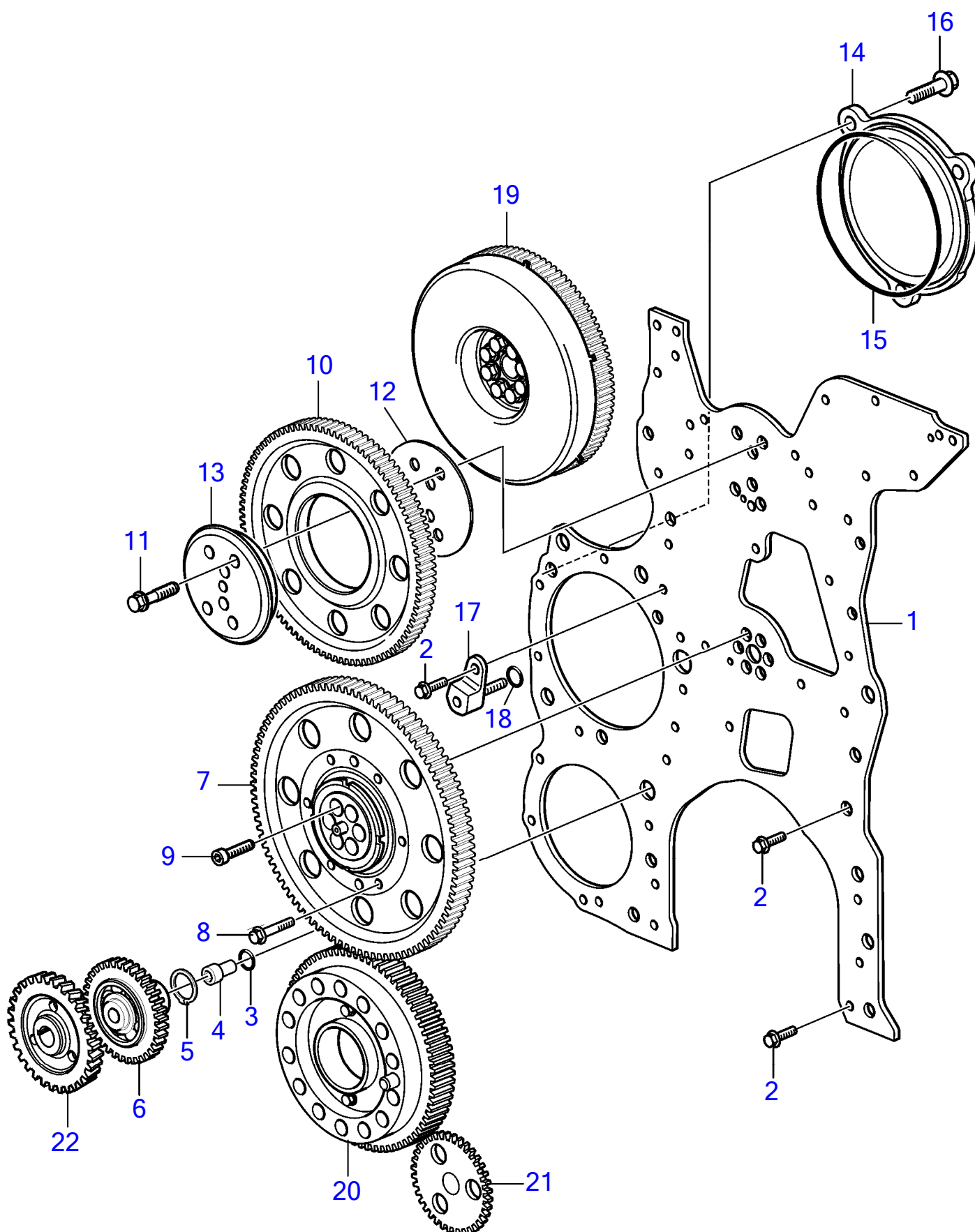
Ref	Part No.	Qty	Description	Notes
1			Rocker arm shaft	
2	21415405	6	Rocker arm, intake	
3	21054149	1	• Ball socket	
4	944364	1	• • O-ring	
5		1	• • Ball seat	Obsolete part
6	946911	1	• Hexagon nut	
7	(20501055)	1	• Ball stud	Obsolete part
8	21132292	6	Rocker arm, fuel injector	
9	3964817	1	• Jet	
10	(20501057)	1	• Adjusting screw	Obsolete part
11	1677396	1	• Hexagon nut	
12	21595700	6	Rocker arm, exhaust	
13		2	• Plug	
14	946911	1	• Hexagon nut	
15		1	• Adjusting screw	
16		1	• Piston	
17	21054149	1	• Ball socket	
18	944364	1	• • O-ring	
19	21132342	6	Rocker arm, exhaust	
20	1677396	1	• Hexagon nut	
21		1	• Adjusting screw	
22	20724261	1	Ball socket	
23	976012	1	• O-ring	Obsolete part
24		1	• Push rod	
25		1	• Ball socket	
26	20724250	6	Leaf spring	Obsolete part
27	20775507	12	Hex. socket screw	
28	21061323	6	Valve bridge	
29	21168206	6	Yoke	Replaced by 21425162
	21425162	6	Yoke	
30	21344774	6	Flange screw	
31	20857578	6	Valve yoke	
32	20551362	1	• Adjusting screw	
33	946911	1	• Hexagon nut	
34	20554268	6	Guide pin	
35	21476570	12	Valve spring	
36	21596642	1	Control valve	24V



21 Timing Gear

TAD1641VE, TAD1642VE, TAD1643VE, TAD1660VE, TAD1661VE, TAD1662VE, TAD1640VE-B,
TAD1641VE-B, TAD1642VE-B

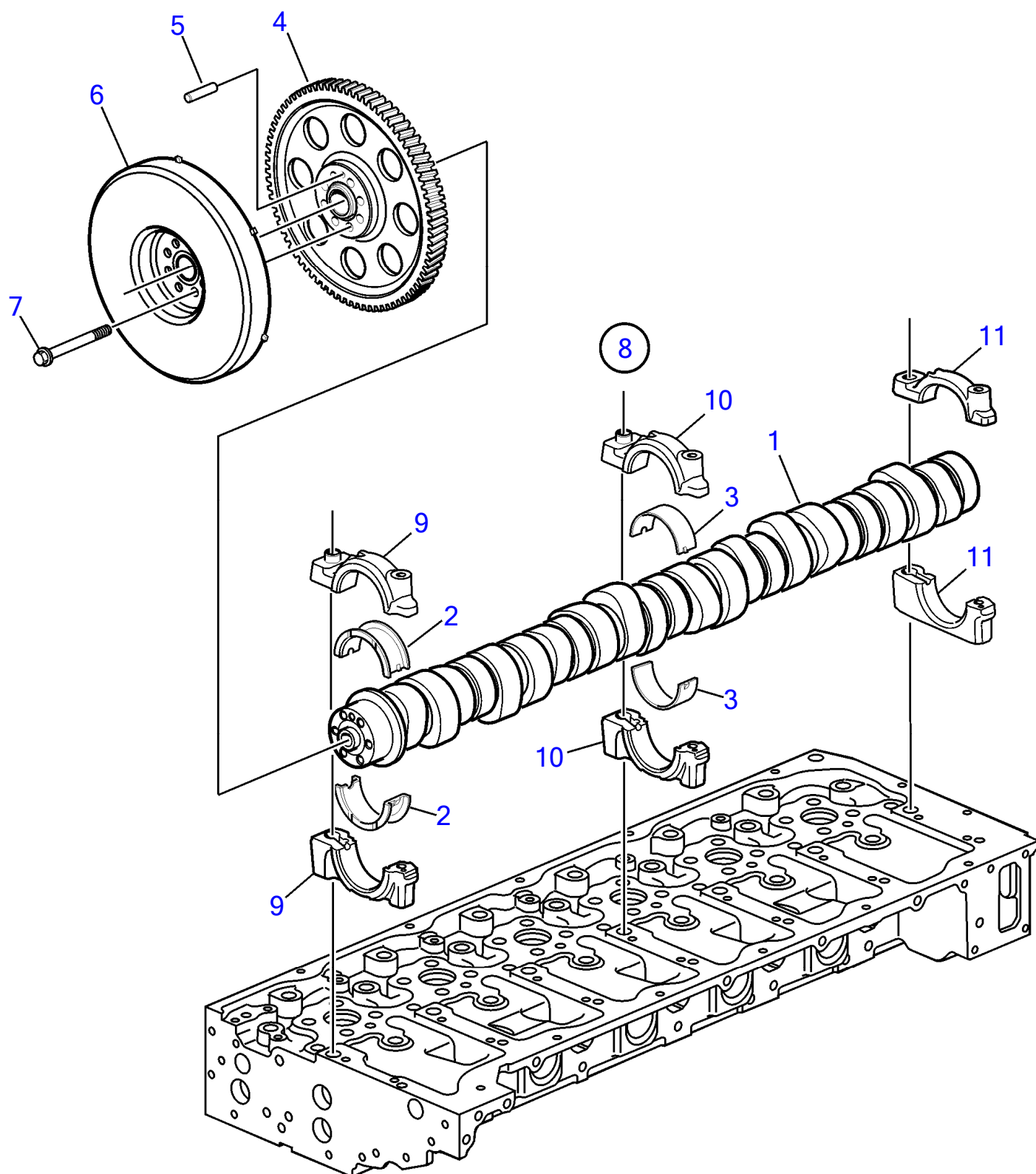
Ref	Part No.	Qty	Description	Notes
1	20854044	1	Timing gear plate	
	21208277	1	Timing gear plate	
	21892737	1	Timing gear plate	Replaced by 22438707
	22438707	1	Timing gear plate	
2	966378	26	Flange screw	
3	949656	1	O-ring	
4		1	Shaft	
5	914465	1	Snap ring	
6	21284699	1	Idler gear	
	22081686	1	Idler gear	Replaced by 22081685
	22081685	1	Idler gear	
7	21057442	1	Idler gear	
	21826614	1	Idler gear	Replaced by 21509046
	21509046	1	Idler gear	
8	471586	6	Screw	
9	20483919	6	Hex. socket screw	
10	8131123	1	Idler gear	Relaced by 20743007
	20743007	1	Idler gear	
11	21015266	6	Flange screw	
12	8131850	1	Thrust washer	
13	20520535	1	Hub	Replaced by 21034938
	21034938	1	Hub	Replaced by 21012985
	21012985	1	Hub	
14	21872746	1	Cover	
15	948977	1	O-ring	
16	953102	2	Stud	
17	20531962	1	Nut	
18	979230	3	Flange nut	
19	943177	1	O-ring	



21 Timing Gear

TAD1650VE

Ref	Part No.	Qty	Description	Notes
1	20854044	1	Timing gear plate	
2	984735	26	Flange screw	
3	949656	1	O-ring	
4			Shaft	
5	914465	1	Snap ring	
6	(21574594)	1	Idler gear	Obsolete part
7	21057442	1	Idler gear	
8	8192804	8	Flange screw	
9	20483919	6	Hex. socket screw	
10	20743007	1	Idler gear	
11	21015266	6	Flange screw	
12	8131850	1	Thrust washer	
13	21034938	1	Hub	
14	3589530	1	Cap	
15	948977	1	O-ring	
16	984816	3	Flange screw	
17	20531962	1	Nut	
18	943177	1	O-ring	
19	20891469	1	Gear, vibration damper	
20	20801971	1	Gear	
21	8131270	1	Gear	
22	8131292	1	Gear	

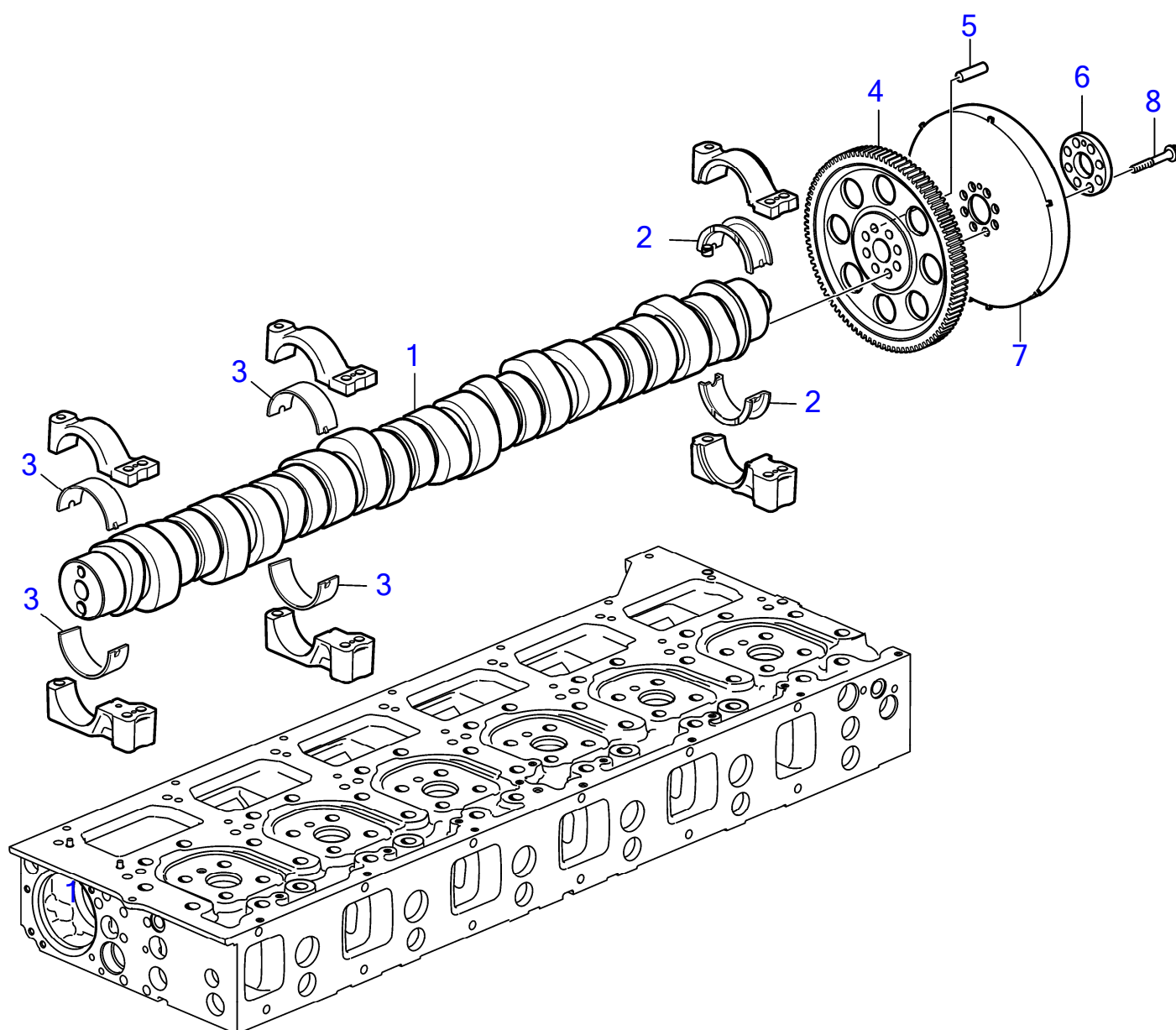


20012

21 Camshaft

TAD1641VE, TAD1642VE, TAD1643VE

Ref	Part No.	Qty	Description	
1	20894565	1	Camshaft	SN2016010025-
	3829188	1	Camshaft	SN-2016010024
2	20756108	1	Camshaft bearing kit	Std SN2016010025-, Replaced by bearing kit 21006109.
	21006109	1	Camshaft bearing kit	
	20503200	1	Camshaft bearing kit	Std SN-2016010024
	(20503201)	1	Camshaft bearing kit	Obsolete part, O.S=0,25mm
	(20503202)	1	Camshaft bearing kit	Obsolete part, O.S=0.50mm
	(20503203)	1	Camshaft bearing kit	Obsolete part, O.S=0,75mm
3	21006103	6	Camshaft bearing kit	Std SN2016010025-
	276630	6	Camshaft bearing kit	Std SN-2016010024
	276631	6	Camshaft bearing kit	O.S=0,25mm
	276632	6	Camshaft bearing kit	O.S=0.50mm
	276633	6	Camshaft bearing kit	O.S=0,75mm
4	8131386	1	Gear, camshaft gear	SN-2016016199
	20891469	1	Gear, camshaft gear	SN2016016200-
5	950551	1	Pin	
6	20450049	1	Vibration damper	
7	8131597	8	Flange screw	
8	3184068	1	Bearing housing	SN-2016010030,When replacing one or more bearing houses the first time, all of
9	3184012	1	• Bearing housing, Rear	SN-2016010030
10	3184015	5	• Bearing housing, no. 2-6	SN-2016010030
11	3184018	1	• Bearing housing, front	SN-2016010030

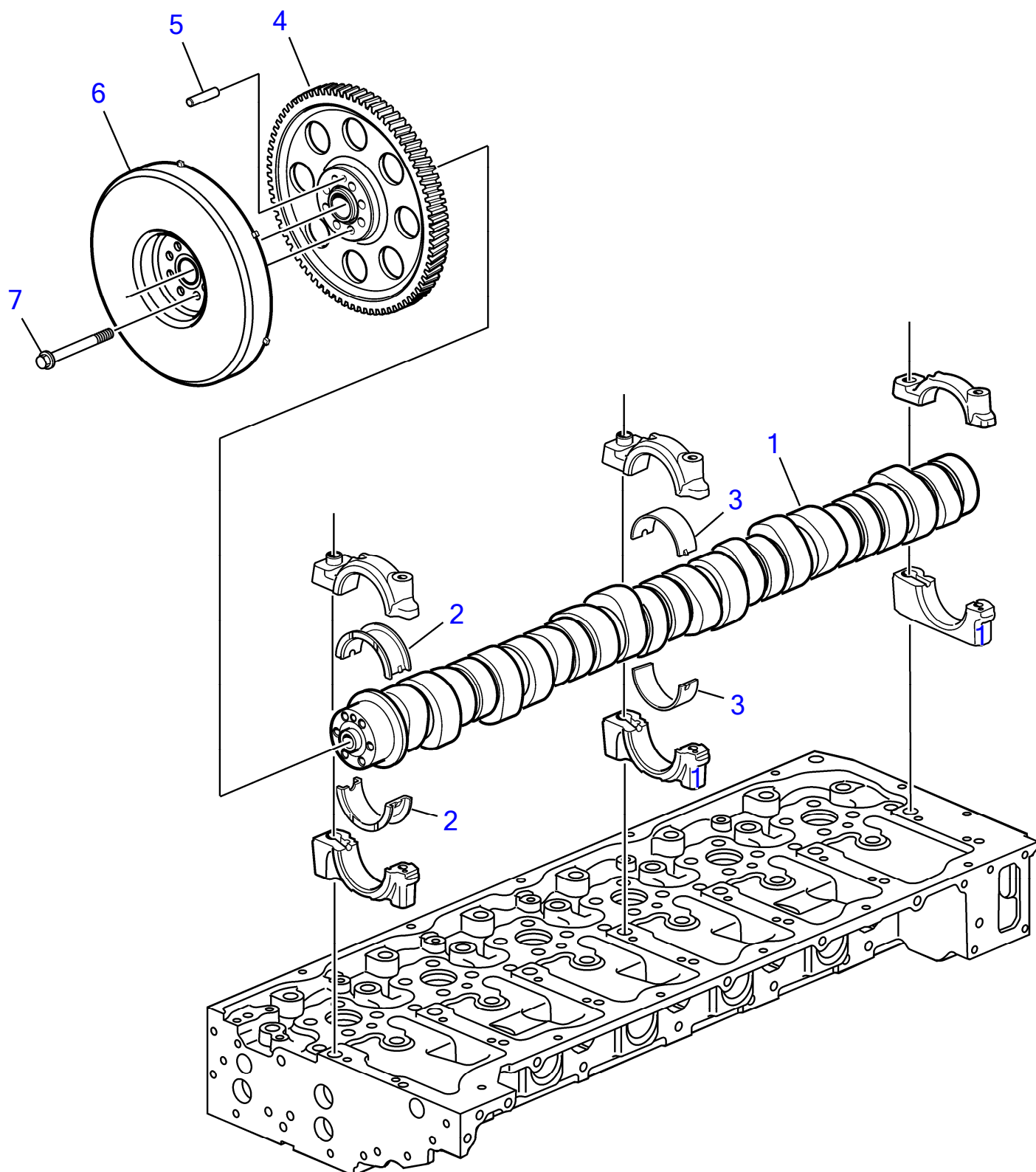


29494

21 Camshaft

TAD1650VE

Ref	Part No.	Qty	Description	Notes
1	20894565	1	Camshaft	
2	20756108	1	Camshaft bearing kit	Std
	(20503201)	1	Camshaft bearing kit	O.S=0,25mm, Obsolete part
	(20503202)	1	Camshaft bearing kit	Obsolete part, O.S=0.50mm
	(20503203)	1	Camshaft bearing kit	Obsolete part, O.S=0,75mm
3	21006103	6	Camshaft bearing kit	Std
	276631	6	Camshaft bearing kit	O.S=0,25mm
	276632	6	Camshaft bearing kit	O.S=0.50mm
	276633	6	Camshaft bearing kit	O.S=0,75mm
4	20891469	1	Gear	
5	950553	1	· Pin	
6	20878608	1	Spacer	
7	20888623	1	Vibration damper	
8	8192804	8	Flange screw	

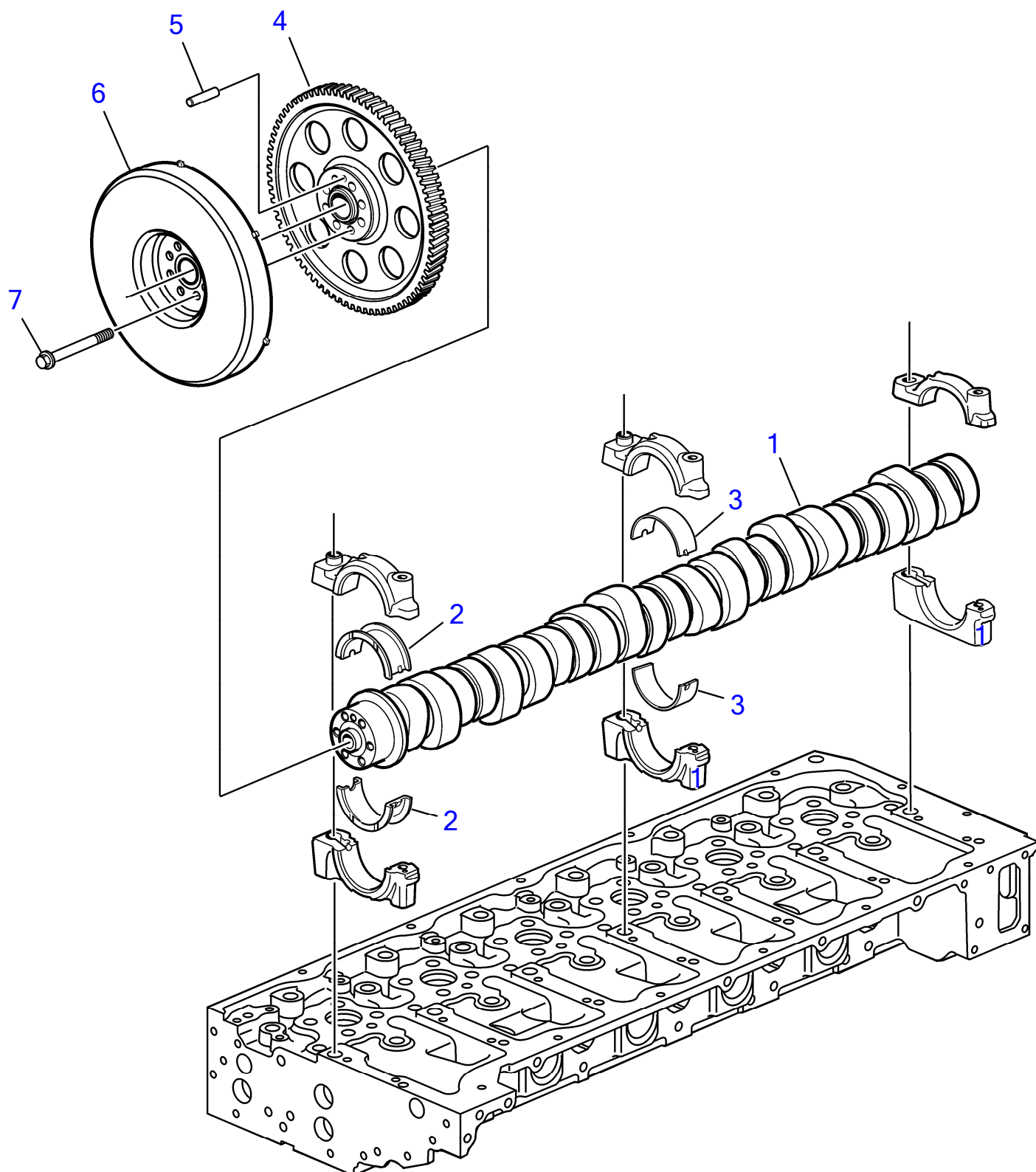


29493

21 Camshaft Standard

TAD1660VE, TAD1661VE, TAD1662VE

Ref	Part No.	Qty	Description	Notes
1	20950805	1	Camshaft	
2	21006109	1	Camshaft bearing kit	Std
	(20503201)	1	Camshaft bearing kit	O.S=0,25mm, Obsolete part
	(20503202)	1	Camshaft bearing kit	Obsolete part, O.S=0.50mm
	(20503203)	1	Camshaft bearing kit	Obsolete part, O.S=0,75mm
3	21006103	6	Camshaft bearing kit	Std SN2016010025-
	276630	6	Camshaft bearing kit	Std SN-2016010024
	276631	6	Camshaft bearing kit	O.S=0,25mm
	276632	6	Camshaft bearing kit	O.S=0.50mm
	276633	6	Camshaft bearing kit	O.S=0,75mm
4	8131386	1	Gear, camshaft gear	SN-2016016199
	20891469	1	Gear, camshaft gear	SN2016016200-
5	950551	1	Pin	
6	20450049	1	Vibration damper	
7	8131597	8	Flange screw	

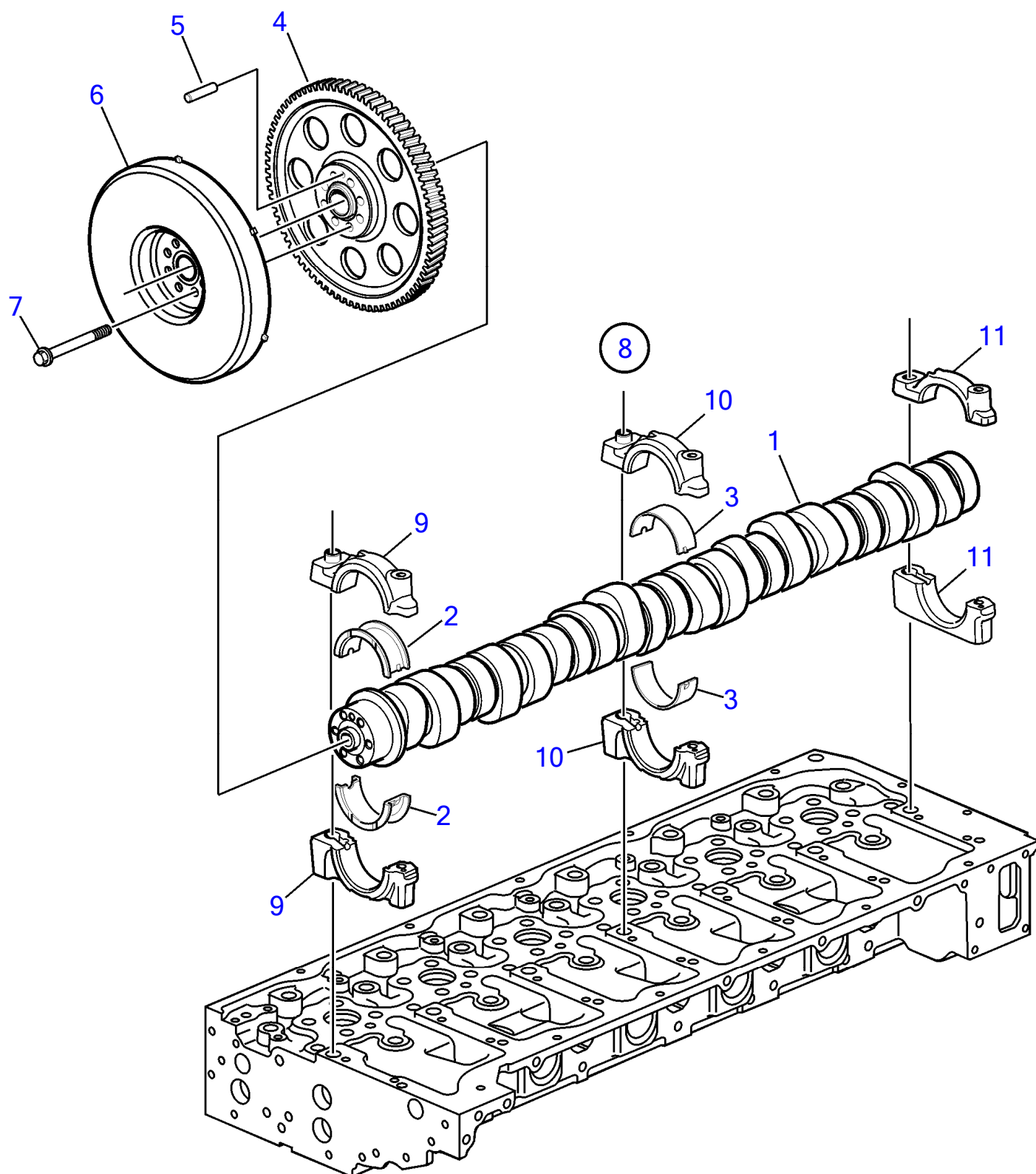


29493

21 Camshaft Standard

TAD1660VE, TAD1661VE, TAD1662VE

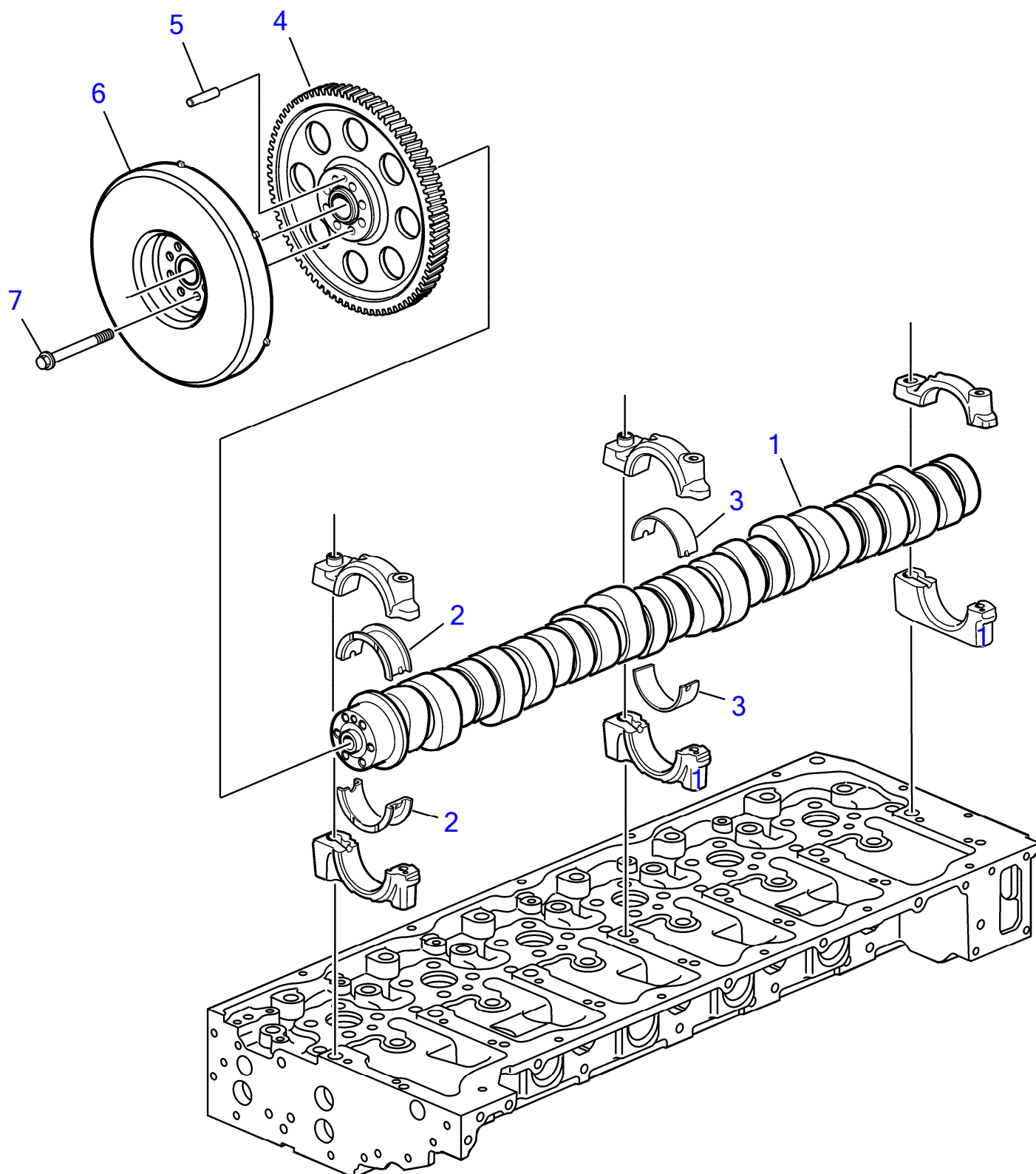
Ref	Part No.	Qty	Description	Notes
1	20950805	1	Camshaft	
2	21006109	1	Camshaft bearing kit	Std
	(20503201)	1	Camshaft bearing kit	O.S=0,25mm, Obsolete part
	(20503202)	1	Camshaft bearing kit	Obsolete part, O.S=0.50mm
	(20503203)	1	Camshaft bearing kit	Obsolete part, O.S=0,75mm
3	21006103	6	Camshaft bearing kit	Std SN2016010025-
	276630	6	Camshaft bearing kit	Std SN-2016010024
	276631	6	Camshaft bearing kit	O.S=0,25mm
	276632	6	Camshaft bearing kit	O.S=0.50mm
	276633	6	Camshaft bearing kit	O.S=0,75mm
4	8131386	1	Gear, camshaft gear	SN-2016016199
	20891469	1	Gear, camshaft gear	SN2016016200-
5	950551	1	Pin	
6	20450049	1	Vibration damper	
7	8131597	8	Flange screw	



20012

21 Camshaft for VCB
TAD1640VE-B, TAD1641VE-B, TAD1642VE-B

Ref	Part No.	Qty	Description	Notes
1	20950804	1	Camshaft	
2	20756108	1	Camshaft bearing kit	Std SN2016010025-, Replaced by bearing kit 21006109.
	21006109	1	Camshaft bearing kit	
	20503200	1	Camshaft bearing kit	Std SN-2016010024
	(20503201)	1	Camshaft bearing kit	Obsolete part, O.S=0,25mm
	(20503202)	1	Camshaft bearing kit	Obsolete part, O.S=0.50mm
	(20503203)	1	Camshaft bearing kit	Obsolete part, O.S=0,75mm
3	21006103	6	Camshaft bearing kit	Std SN2016010025-
	276630	6	Camshaft bearing kit	Std SN-2016010024
	276631	6	Camshaft bearing kit	O.S=0,25mm
	276632	6	Camshaft bearing kit	O.S=0.50mm
	276633	6	Camshaft bearing kit	O.S=0,75mm
4	8131386	1	Gear, camshaft gear	SN-2016016199
	20891469	1	Gear, camshaft gear	SN2016016200-
5	950551	1	Pin	
6	20450049	1	Vibration damper	
7	8131597	8	Flange screw	
8		1	Bearing housing, kit	For sparepart use complete cylinderhead for exchange.
9		1	• Bearing housing, Rear	For sparepart use complete cylinderhead for exchange.
10		5	• Bearing housing, no. 2-6	For sparepart use complete cylinderhead for exchange.
11		1	• Bearing housing, front	For sparepart use complete cylinderhead for exchange.

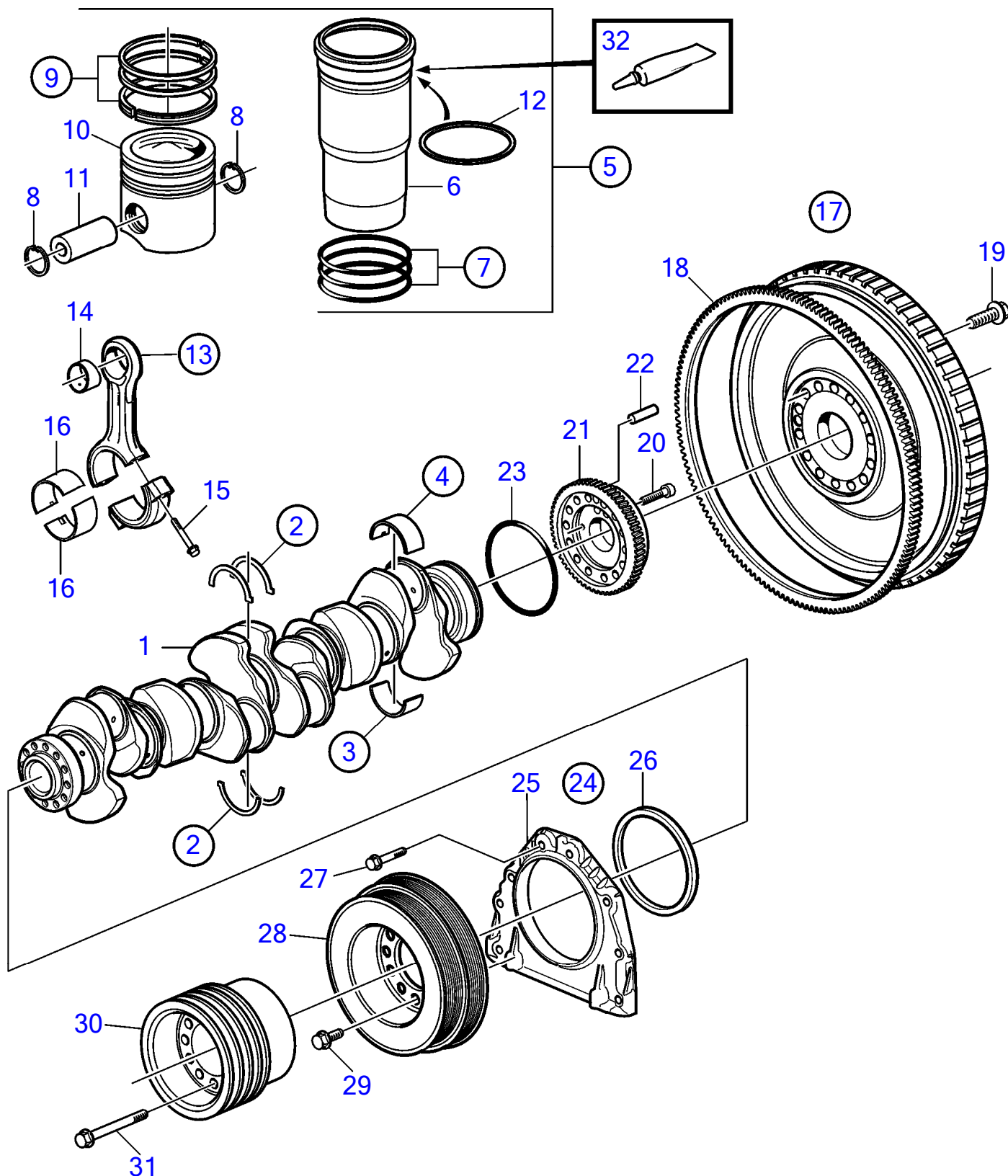


29493

21 Camshaft Standard

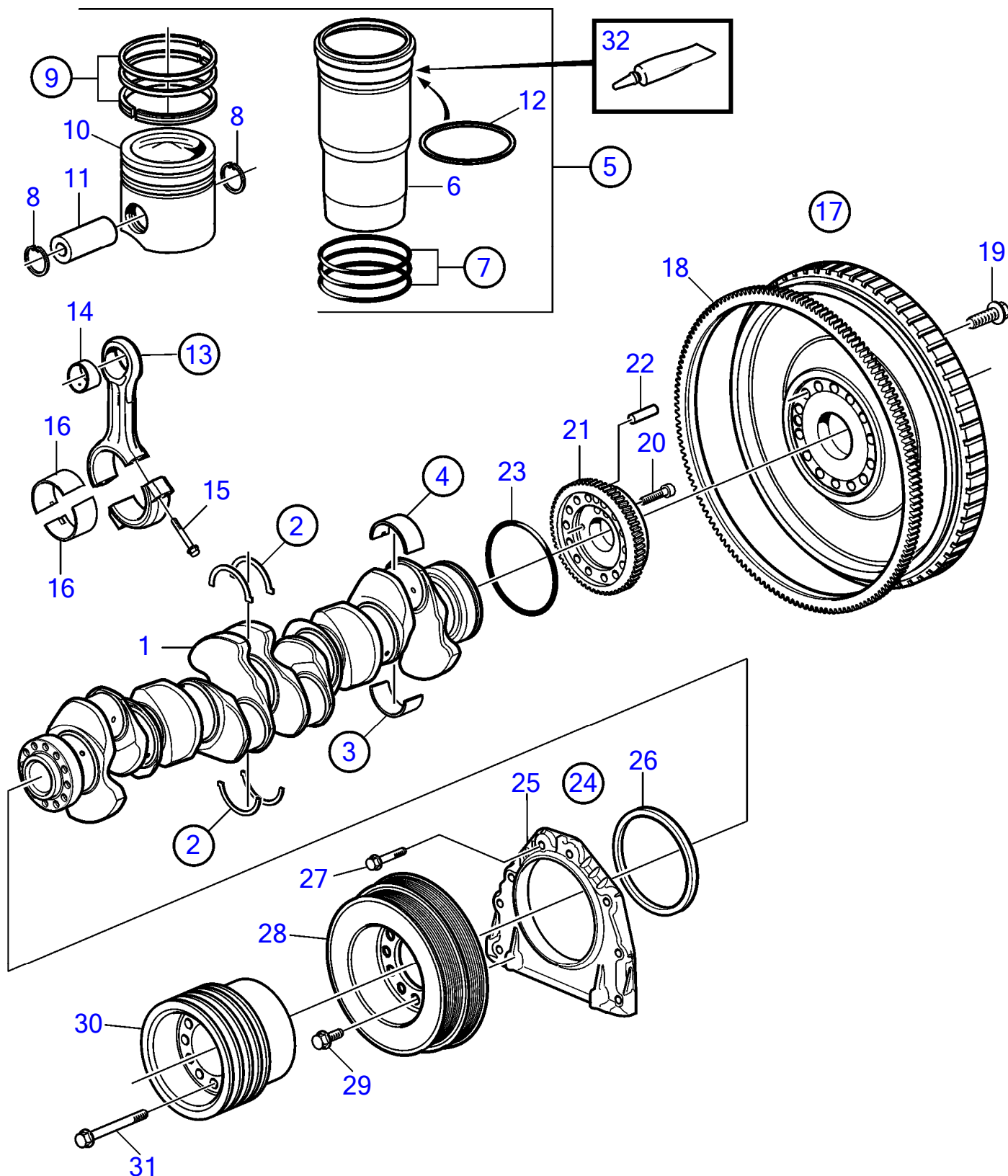
TAD1640VE-B, TAD1641VE-B, TAD1642VE-B

Ref	Part No.	Qty	Description	Notes
1	20950805	1	Camshaft	
2	20756108	1	Camshaft bearing kit	Std SN2016010025-, Replaced by bearing kit 21006109.
	21006109	1	Camshaft bearing kit	
	20503200	1	Camshaft bearing kit	Std SN-2016010024
	(20503201)	1	Camshaft bearing kit	Obsolete part, O.S=0,25mm
	(20503202)	1	Camshaft bearing kit	Obsolete part, O.S=0.50mm
	(20503203)	1	Camshaft bearing kit	Obsolete part, O.S=0,75mm
3	21006103	6	Camshaft bearing kit	Std SN2016010025-
	276630	6	Camshaft bearing kit	Std SN-2016010024
	276631	6	Camshaft bearing kit	O.S=0,25mm
	276632	6	Camshaft bearing kit	O.S=0.50mm
	276633	6	Camshaft bearing kit	O.S=0,75mm
4	8131386	1	Gear, camshaft gear	SN-2016016199
	20891469	1	Gear, camshaft gear	SN2016016200-
5	950551	1	Pin	
6	20450049	1	Vibration damper	
7	8131597	8	Flange screw	

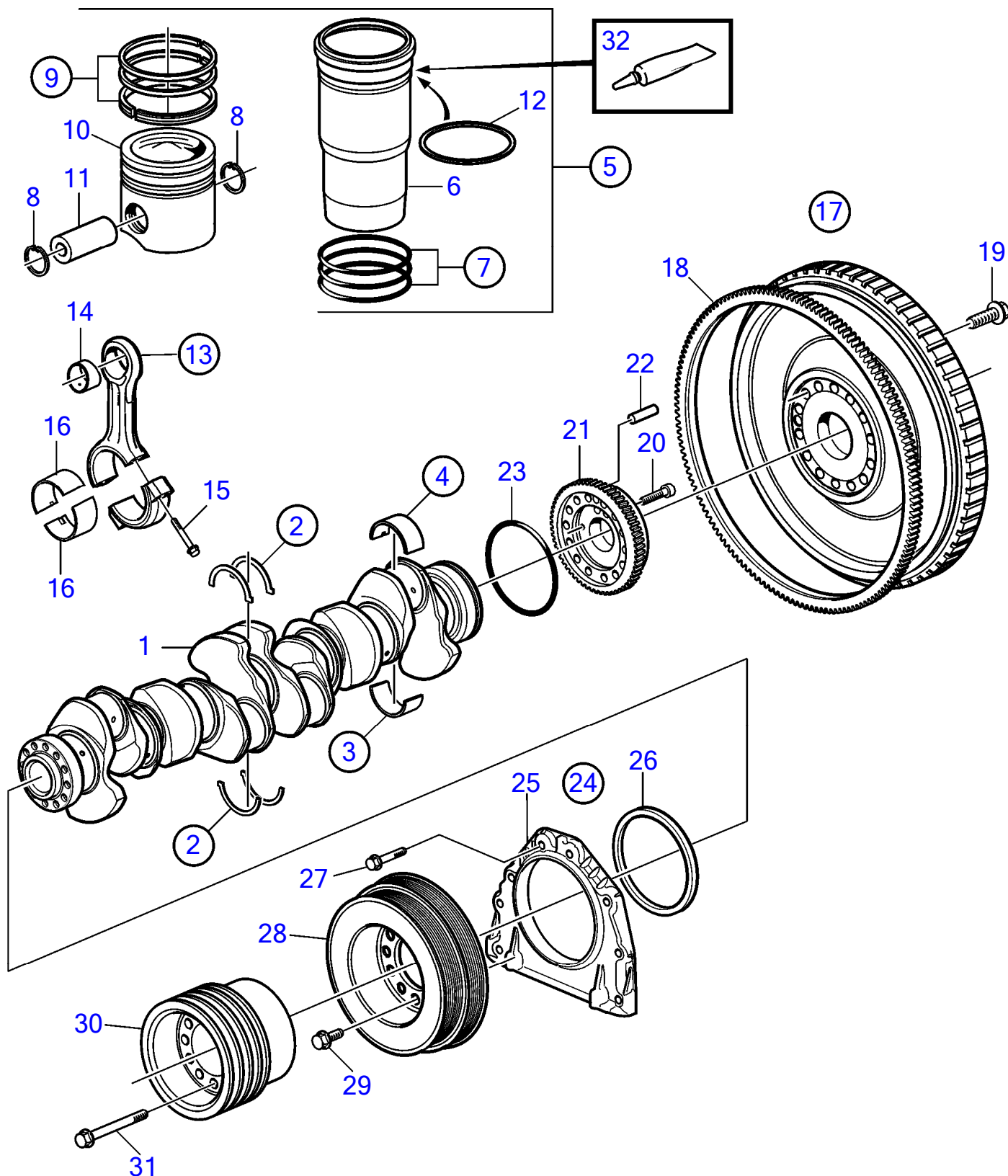


20894

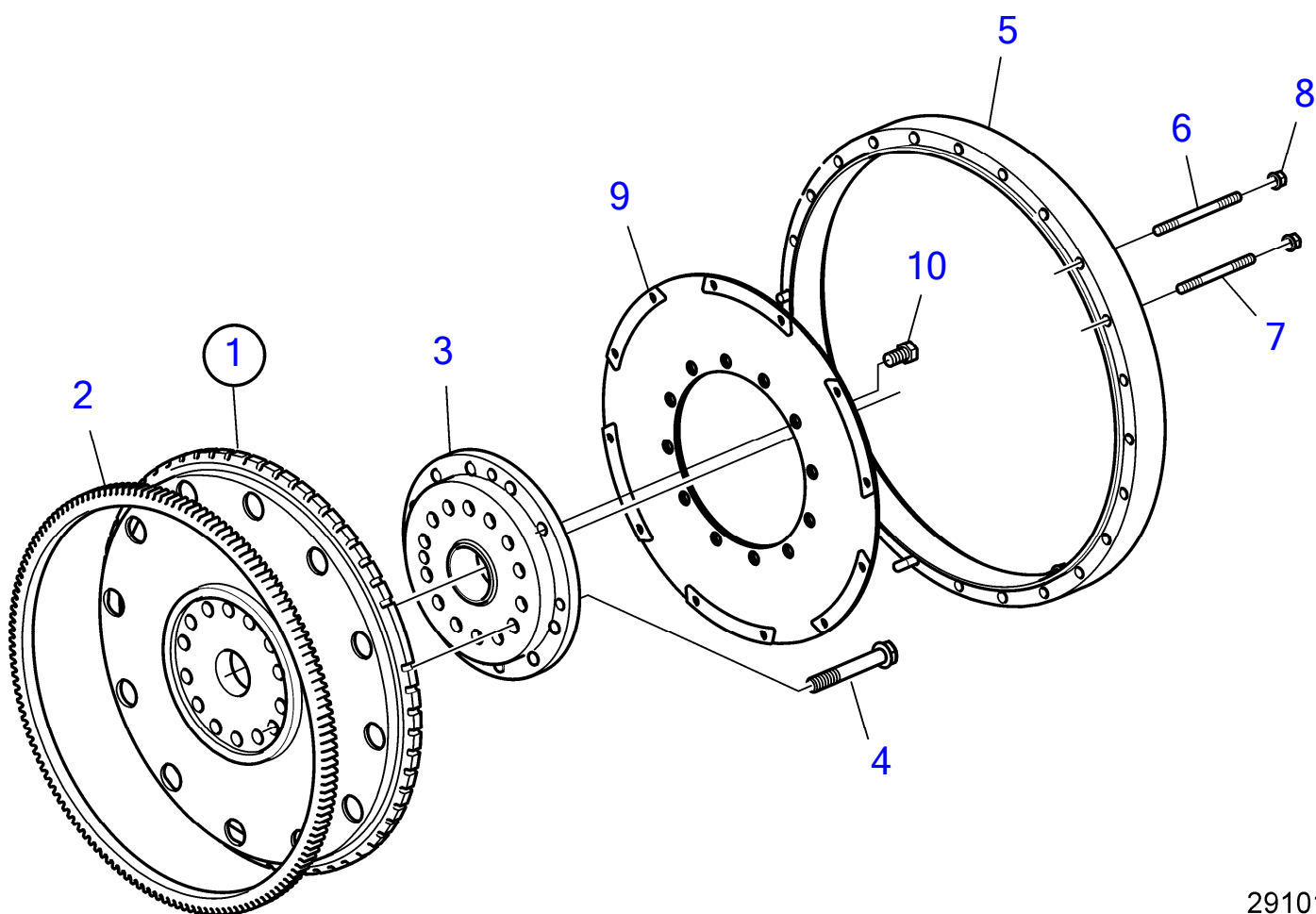
Ref	Part No.	Qty	Description	Notes
1	8131247	1	Crankshaft	
	22235130	1	Crankshaft	
2	270929	1	Thrust washer kit	Std
	270930	1	Thrust washer kit	O.S=0,10mm
	(270931)	1	Thrust washer kit	Obsolete part, O.S=0,20mm
	270932	1	Thrust washer kit	O.S=0,30mm
3	20586595	7	Main bearing kit	SN-002476., Std
	20578851	6	Main bearing kit	SN002477-., Std
	20586596	7	Main bearing kit	SN-002476., O.S=0,25mm
	20700881	6	Main bearing kit	SN002477-., O.S=0,25mm
	20586597	7	Main bearing kit	SN-002476., O.S=0.50mm
	20700882	6	Main bearing kit	SN002477-., O.S=0.50mm
	(20700885)	6	Main bearing kit	Obsolete part, SN002477-., O.S=0,75mm
	20586599	7	Main bearing kit	SN-002476., O.S=1,00mm
	20700886	6	Main bearing kit	SN002477-., O.S=1,00mm
4	20578853	1	Main bearing kit	SN002477- Bearing no 7., Std
	20700890	1	Main bearing kit	SN002477- Bearing no 7., O.S=0,25mm
	20700891	1	Main bearing kit	SN002477- Bearing no 7., O.S=0.50mm
	20700893	1	Main bearing kit	SN002477- Bearing no 7., O.S=1,00mm
5	3886754	6	Cylinder liner kit	
6		6	• Cylinder liner	
7	20520607	1	• Sealing ring kit	See parts bulletin
			• Bulletin p-21-3-104	Cylinder Liner
7	22179684	1	• Sealing ring kit	See parts bulletin
			• Bulletin p-21-3-104	Cylinder Liner
8	945483	2	• Snap ring	
9	3589667	1	• Piston ring kit	Replaced by piston ring kit 3886753.
	3886753	1	• Piston ring kit	
10		1	• Piston	
11	8131232	1	• Piston pin	
12	20523555	X	Shim	TH=0,2mm
	20523556	X	Shim	TH=0,3mm
	20523557	X	Shim	TH=0,5mm
13	20898595	6	Connecting rod	Replaced by 21527863
	21527863	6	Connecting rod	Replaced by 21535917
	21535917	6	Connecting rod	
14	20898010	6	• Bushing	(8131244)
15	8131198	24	• Flange screw	
16	20586602	6	Big-end bearing kit	Std
	20586603	6	Big-end bearing kit	O.S=0,25mm
	20586604	6	Big-end bearing kit	O.S=0.50mm
	20586606	6	Big-end bearing kit	O.S=1,00mm
17	3837975	1	Flywheel	
18	20711957	1	• Ring gear	(8193939)
19	3155075	12	Flange screw	
20	984738	2	Flange screw	
21	20480505	1	Gear	Replaced by gear 20801971.
	20801971	1	Gear	
22	950658	1	Pin	
23	984127	1	O-ring	
24	20777233	1	Cover	(20513482)
25		1	• Lock	
26	85108423	1	• Crankshaft seal	
27	984736	8	Flange screw	
28	20565408	1	Vibration damper	
29	984815	6	Flange screw	
30	3829173	1	Pulley	
31	965229	12	Flange screw	
32	1161231	X	Sealant	304ml
	1161277	X	Sealant	20g



Ref	Part No.	Qty	Description	Notes
1	8131247	1	Crankshaft	
	22235130	1	Crankshaft	
2	270929	1	Thrust washer kit	Std
	270930	1	Thrust washer kit	O.S=0,10mm
	(270931)	1	Thrust washer kit	Obsolete part, O.S=0,20mm
	270932	1	Thrust washer kit	O.S=0,30mm
3	20578851	6	Main bearing kit	Std
	20700881	6	Main bearing kit	O.S=0,25mm
	20700882	6	Main bearing kit	O.S=0,50mm
	(20700885)	6	Main bearing kit	Obsolete part, O.S=0,75mm
	20700886	6	Main bearing kit	O.S=1,00mm
4	20578853	1	Main bearing kit	Std, Bearing no 7
	20700890	1	Main bearing kit	O.S=0,25mm, Bearing no 7
	20700891	1	Main bearing kit	O.S=0,50mm, Bearing no 7
	(20700892)	1	Main bearing kit	Obsolete part, O.S=0,75mm, Bearing no 7
	20700893	1	Main bearing kit	O.S=1,00mm, Bearing no 7
	(20700895)	1	Main bearing kit	Obsolete part, O.D=1,25mm, Bearing no 7
5	20966749	6	Cylinder liner kit	
6		1	• Cylinder liner	
7	20520607	1	• Sealing ring kit	See parts bulletin
			• Bulletin p-21-3-104	Cylinder Liner
7	22179684	1	• Sealing ring kit	See parts bulletin
			• Bulletin p-21-3-104	Cylinder Liner
8	945483	2	• Snap ring	
9	21010337	1	• Piston ring kit	
10		1	• Piston	
11	20521400	1	• Piston pin	
12	20523555	X	Shim	TH=0,2mm
	20523556	X	Shim	TH=0,3mm
	20523557	X	Shim	TH=0,5mm
13	20898595	6	Connecting rod	Replaced by 21527863
	21527863	6	Connecting rod	Replaced by 21535917
	21535917	6	Connecting rod	
14	20898010	6	• Bushing	(8131244)
15	8131198	24	• Flange screw	
16	20586602	6	Big-end bearing kit	Std
	20586603	6	Big-end bearing kit	O.S=0,25mm
	20586604	6	Big-end bearing kit	O.S=0,50mm
	(20586605)	6	Big-end bearing kit	Obsolete part, O.S=0,75mm
	20586606	6	Big-end bearing kit	O.S=1,00mm
	(20586607)	6	Big-end bearing kit	Obsolete part, O.D=1,25mm
17	3848344	1	Flywheel	
18	20711957	1	• Ring gear	
19	21344746	14	Flange screw	
20	984738	2	Flange screw	
21	20801971	1	Gear	
22	950658	1	Pin	
23	984127	1	O-ring	
24	20777233	1	Cover	
25		1	• Lock	
26	85108423	1	• Crankshaft seal	
27	984736	8	Flange screw	
28	20585893	1	Vibration damper	
29	984815	6	Flange screw	
30	3829173	1	Pulley	
31	965229	12	Flange screw	
32	1161231	X	Sealant	304ml
	1161277	X	Sealant	20g



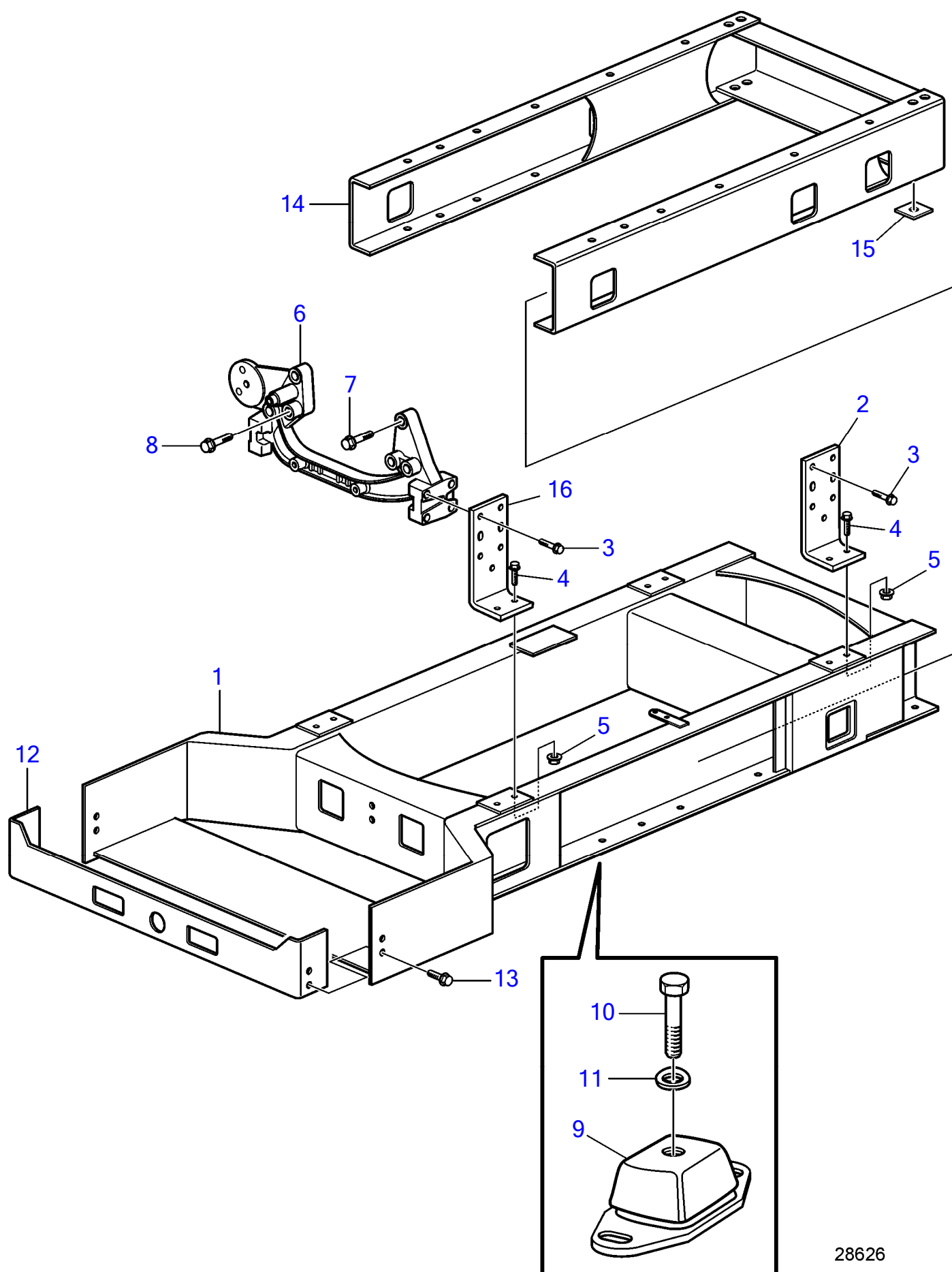
Ref	Part No.	Qty	Description	Notes
1	8131247	1	Crankshaft	
	22235130	1	Crankshaft	
2	270929	1	Thrust washer kit	Std
	270930	1	Thrust washer kit	O.S=0,10mm
	(270931)	1	Thrust washer kit	Obsolete part, O.S=0,20mm
	270932	1	Thrust washer kit	O.S=0,30mm
3	20578851	6	Main bearing kit	Std
	20586596	6	Main bearing kit	O.S=0,25mm
	20700881	6	Main bearing kit	O.S=0,25mm
	20586597	7	Main bearing kit	O.S=0.50mm
	20700882	6	Main bearing kit	O.S=0.50mm
	(20700885)	6	Main bearing kit	Obsolete part, O.S=0,75mm
	20586599	7	Main bearing kit	O.S=1,00mm
	20700886	6	Main bearing kit	O.S=1,00mm
4	20578853	1	Main bearing kit	Std, Bearing no 7
	20700890	1	Main bearing kit	O.S=0,25mm, Bearing no 7
	20700891	1	Main bearing kit	O.S=0.50mm, Bearing no 7
	20700893	1	Main bearing kit	O.S=1,00mm, Bearing no 7
5	21254035	6	Cylinder liner kit	
6		1	• Cylinder liner	
7	20520607	1	• Sealing ring kit	See parts bulletin
			• Bulletin p-21-3-104	Cylinder Liner
7	22179684	1	• Sealing ring kit	See parts bulletin
			• Bulletin p-21-3-104	Cylinder Liner
8	914531	2	• Snap ring	
9	20819869	1	• Piston ring kit	
10		1	• Piston	
11		1	• Piston pin	
12	20523555	X	Shim	TH=0,2mm
	20523556	X	Shim	TH=0,3mm
	20523557	X	Shim	TH=0,5mm
13	20898595	6	Connecting rod	Replaced by 21527863
	21527863	6	Connecting rod	Replaced by 21535917
	21535917	6	Connecting rod	
14	20898010	6	• Bushing	(8131244)
15	8131198	24	• Flange screw	
16	20586602	6	Big-end bearing kit	Std
	20586603	6	Big-end bearing kit	O.S=0,25mm
	20586604	6	Big-end bearing kit	O.S=0.50mm
	20586606	6	Big-end bearing kit	O.S=1,00mm
17	3840066	1	Flywheel	
	3848344	1	Flywheel	Clark
	(22059185)	1	Flywheel	Obsolete part, TAD1662VE, (Euro5)
	22334637		Flywheel	Flywheel/Techniwell
18	20711957	1	• Ring gear	(8193939)
19	3155075	12	Flange screw	
20	984738	2	Flange screw	
21	20801971	1	Gear	
22	950658	1	Pin	
23	984127	1	O-ring	
24	20777233	1	Cover	(20513482)
25		1	• Lock	
26	21347087	1	• Crankshaft seal	
27	984736	8	Flange screw	
28	20565408	1	Vibration damper	
29	984815	6	Flange screw	
30	3829173	1	Pulley	
31	965229	12	Flange screw	
32	1161231	X	Sealant	304ml
	1161277	X	Sealant	20g



29101

21 Flywheel Allison 5000/6000 transmissionTAD1643VE, TAD1650VE, TAD1660VE, TAD1661VE, TAD1662VE, TAD1640VE-B, TAD1641VE-B,
TAD1642VE-B

Ref	Part No.	Qty	Description	Notes
1	22834215	1	Flywheel	
2	20711957	1	• Ring gear	
3	22834232	1	Hub	
4	21340875	14	Flange screw	M16x1,5x109
5	22833997	1	Flange	
6	953003	11	Stud	L=130mm
7	953000	10	Stud	L=115mm
8	981152	21	Flange nut	M10
9	22887532	1	Flexplate	
10	994482	12	Hexagon screw	M14x30

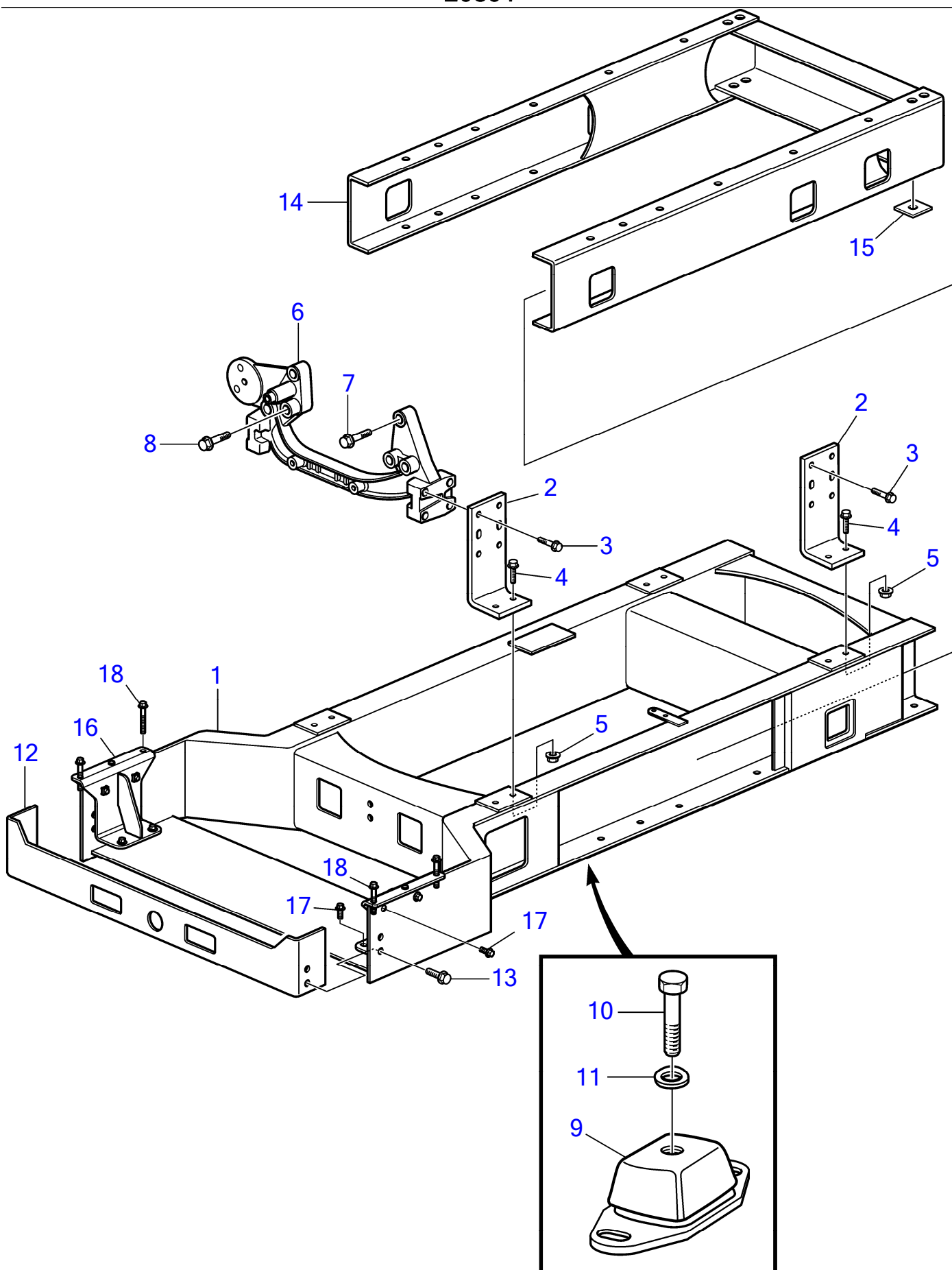


28626

21 Engine Mounting and Frame

TAD1641VE, TAD1642VE, TAD1643VE, TAD1660VE, TAD1661VE, TAD1662VE

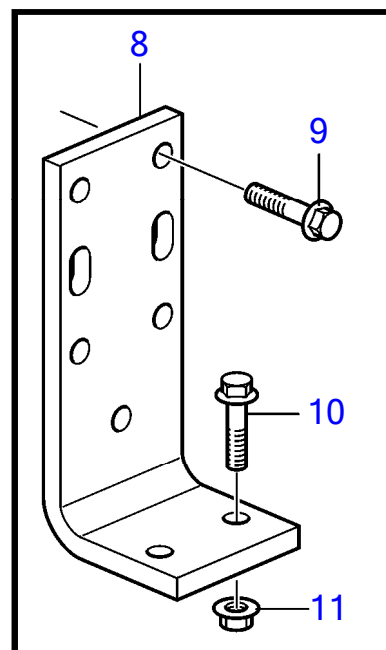
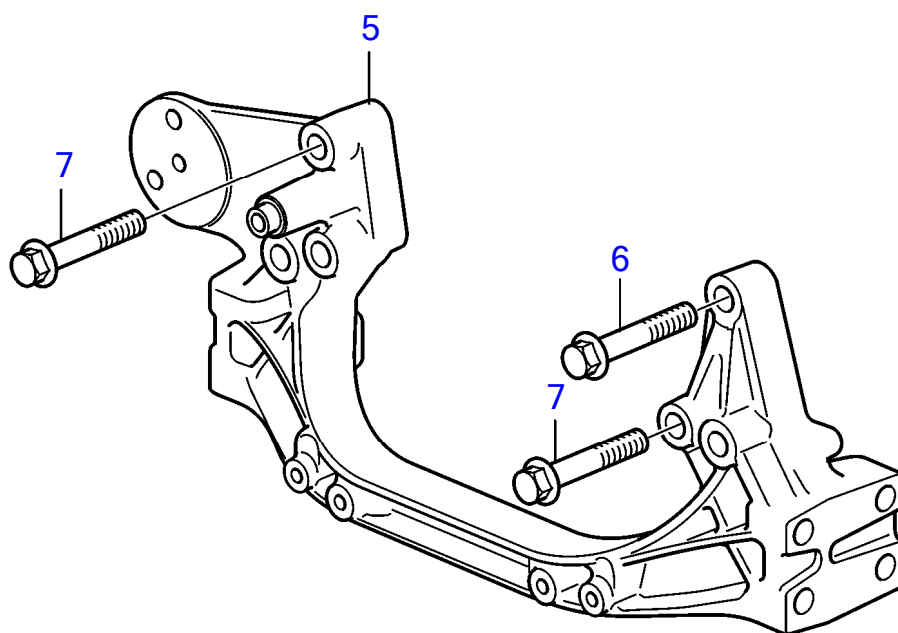
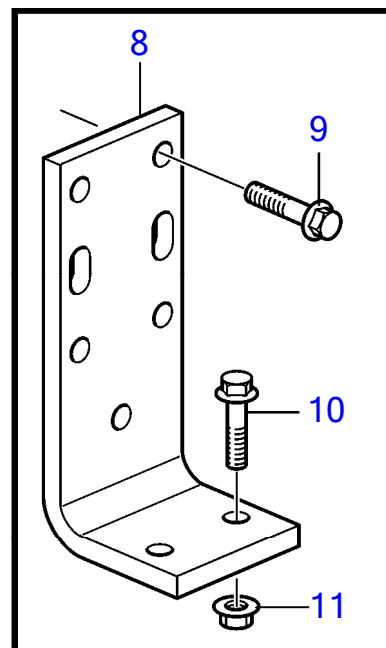
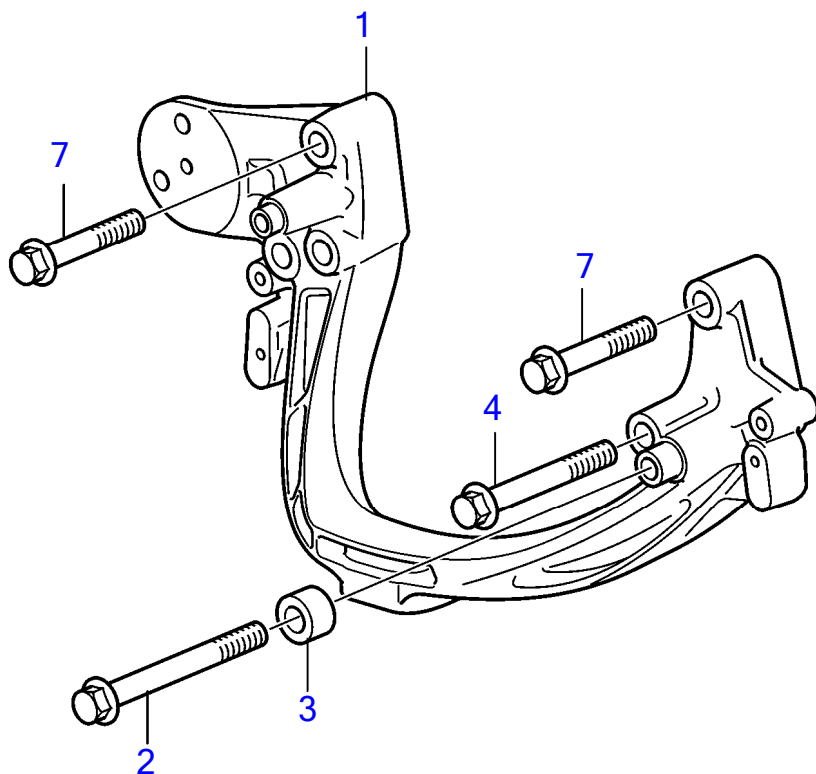
Ref	Part No.	Qty	Description	Notes
1	(3808749)	1	Frame	Obsolete part
2	3826669	2	Engine bracket	
3	968435	16	Flange screw	
4	968449	8	Flange screw	
5	971100	8	Flange lock nut	
6	11158125	1	Engine mounting	
7	974008	1	Flange screw	L=70mm
8	975127	5	Flange screw	
9	862347	4	Rubber cushion	
10	955387	4	Hexagon screw	
11	955904	4	Washer	
12	3812095	1	Cross member	
13	984753	4	Flange screw	
14	(3589803)	1	Frame	Obsolete part
15	865549	4	Washer	
16	22394232	2	Engine bracket	



21 Engine Mounting and Frame

TAD1641VE, TAD1642VE, TAD1643VE, TAD1660VE, TAD1661VE, TAD1662VE, TAD1640VE-B

Ref	Part No.	Qty	Description	Notes
1	(22063512)	1	Frame	Obsolete part
2	3827307	4	Engine bracket	
3	984833	16	Flange screw	
4	992340	8	Flange screw	
5	990953	8	Flange lock nut	
6	3828707	1	Engine mounting	
7	974008	1	Flange screw	L=70mm
8	975127	5	Flange screw	
9	862347	8	Rubber cushion	
10	961305	8	Hexagon screw	
11	955904	8	Washer	
12	22468224	1	Cross member	
13	984753	4	Flange screw	
14	(3589803)	1	Frame	Obsolete part
15	865549	4	Washer	
16	22248556	2	Bracket	
17	984815	4	Flange screw	
18	984818	2	Flange screw	

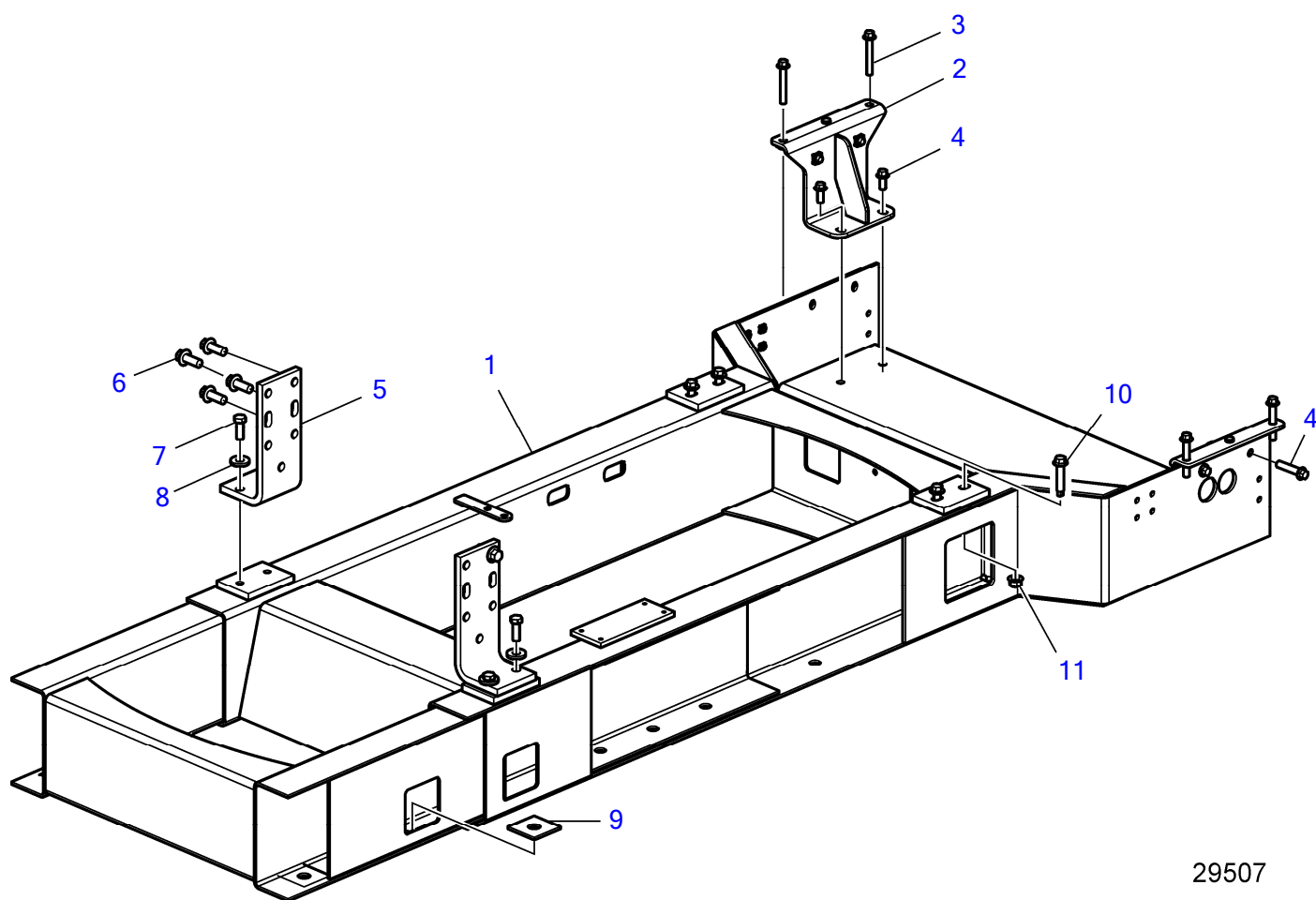


24303

21 Engine Mounting

TAD1650VE

Ref	Part No.	Qty	Description	Notes
1	11158125	1	Engine mounting	Three point suspension
2	983445	1	Flange screw	L=150mm
3	20711193	1	Sleeve	
4	975130	1	Flange screw	L=120mm
5	3828707	1	Engine mounting	Four point suspension
6	974008	1	Flange screw	L=70mm
7	975127	5	Flange screw	L=90mm
8	3826669	4	Engine bracket	
9	968435	8	Flange screw	
10	968449	8	Flange screw	
11	971100	8	Flange lock nut	

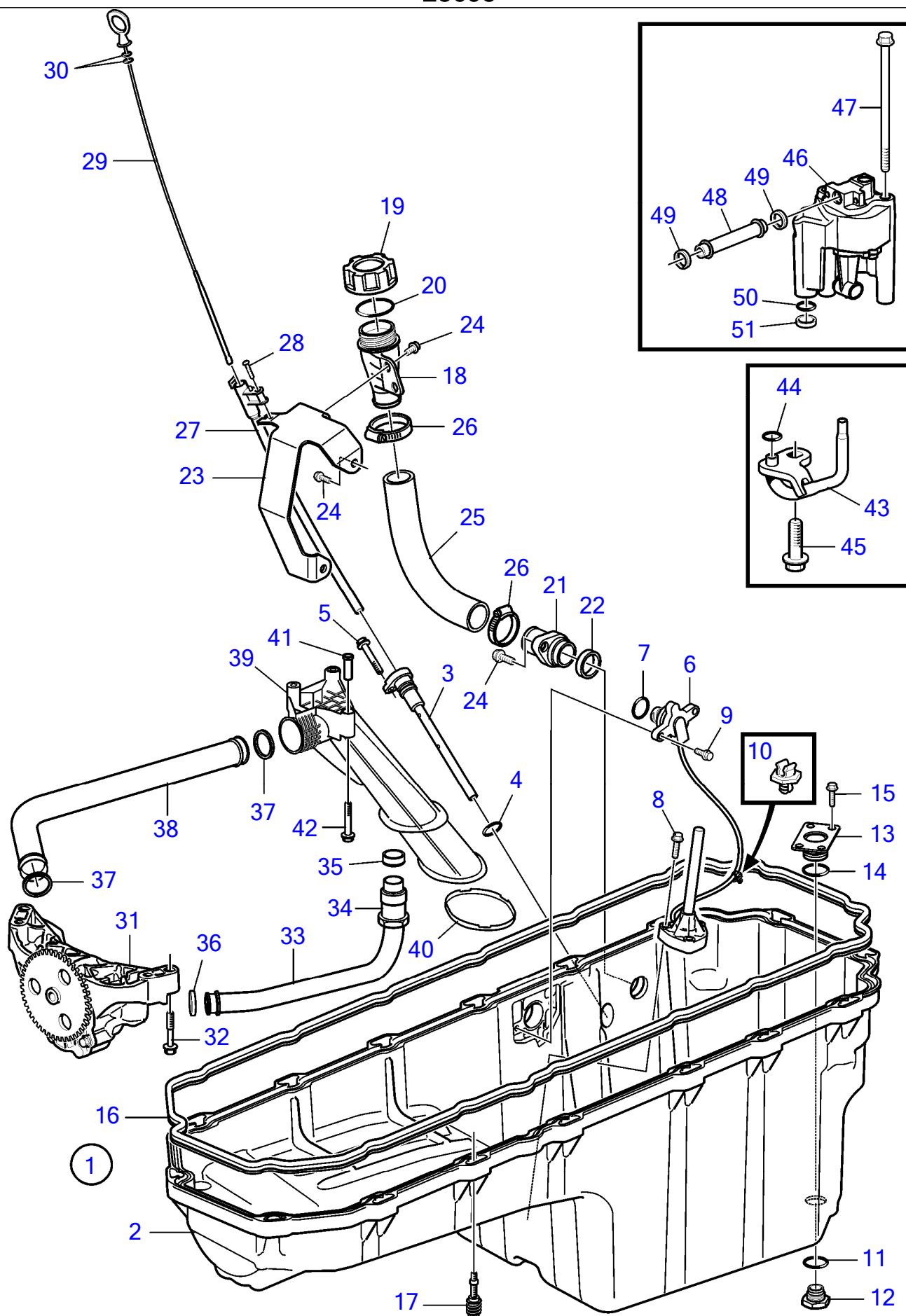


29507

21 Engine Frame for HD Cooling

TAD1643VE, TAD1660VE, TAD1661VE, TAD1662VE, TAD1640VE-B, TAD1641VE-B,
TAD1642VE-B, TAD1662VE EU5

Ref	Part No.	Qty	Description	Notes
1	(22063512)	1	Frame	Obsolete part
2	22248556	2	Bracket	
3	984818	4	Flange screw	
4	984815	8	Flange screw	
5	3826669	2	Engine bracket	
6	984833	8	Flange screw	
7	996070	4	Hexagon screw	
8	60113327	4	Washer	
9	865549	4	Washer	
10	992340	4	Flange screw	
11	990953	4	Flange lock nut	

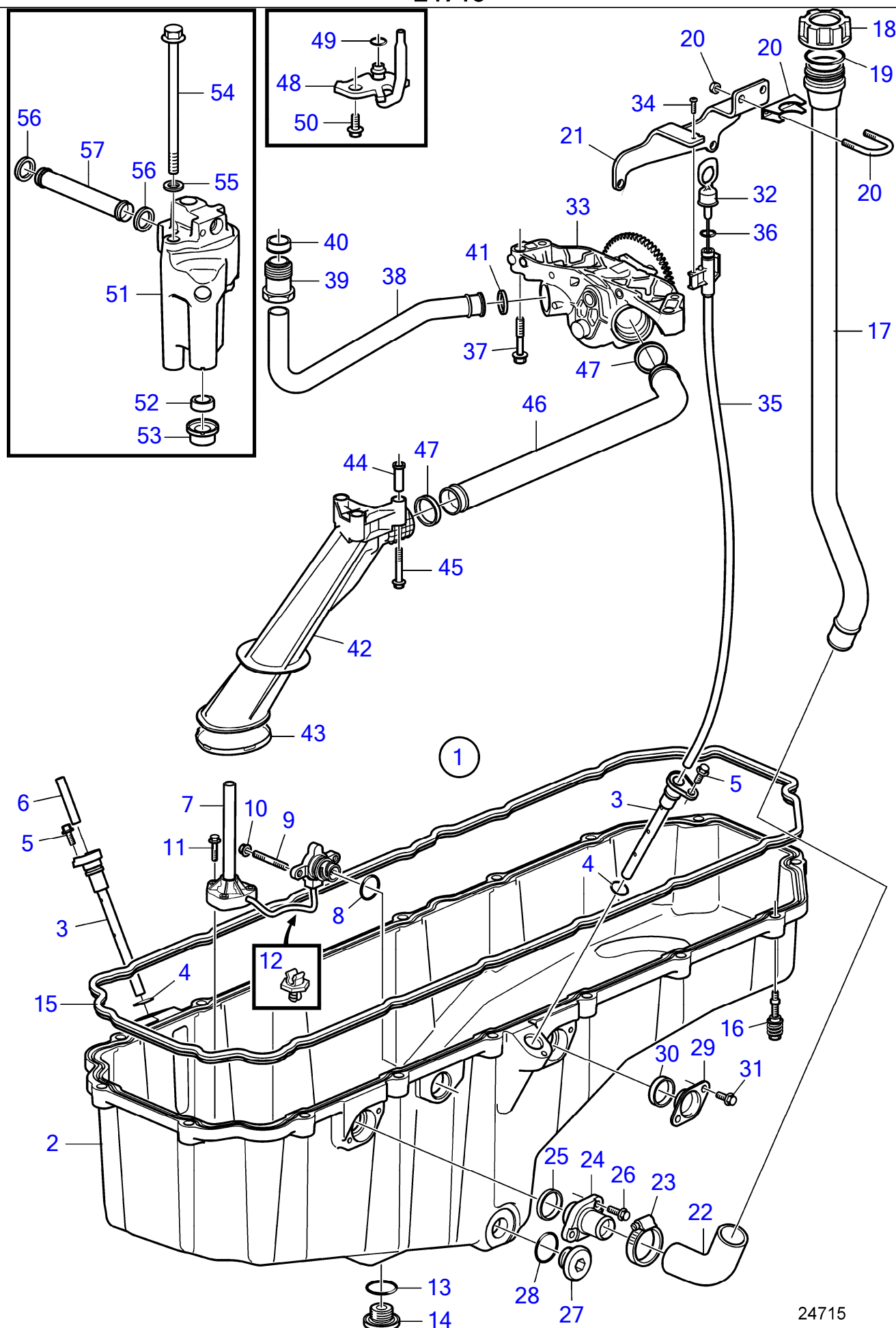


22 Lubricating System

TAD1641VE, TAD1642VE, TAD1643VE, TAD1660VE, TAD1661VE, TAD1662VE, TAD1640VE-B,
TAD1641VE-B, TAD1642VE-B

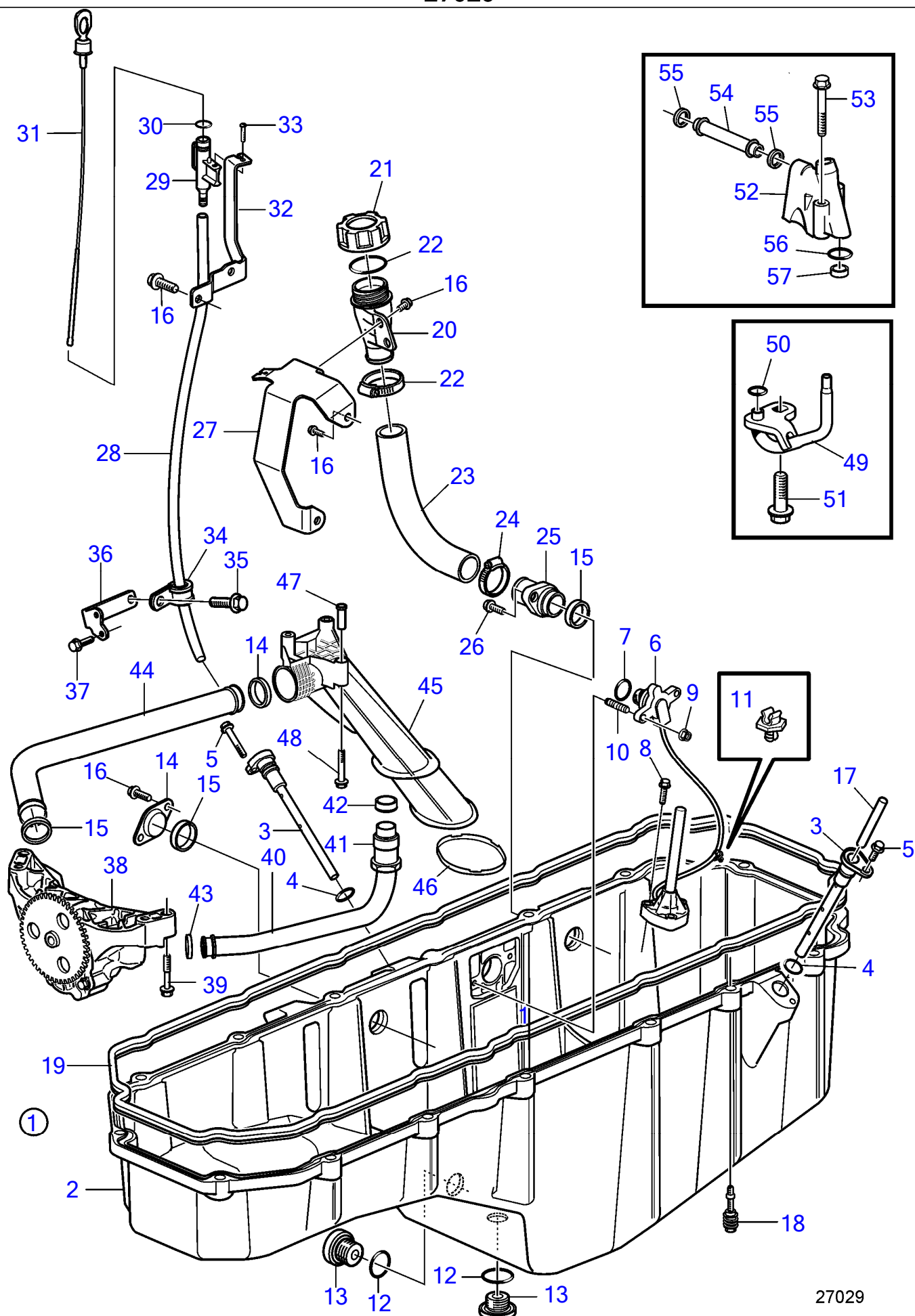
Ref	Part No.	Qty	Description	Notes
1	20875333	1	Oil pan	
2		1	• Oil pan	
3	20724256	1	• Pipe	
4	949656	1	• • O-ring	
5	946173	1	• Flange screw	
6	24424110	1	• Sensor	Replaced by sender 21042447.
	21042447	1	• Oil level sensor	
7	990719	1	• • O-ring	
8	948356	3	• Flange screw	
9	946934	2	• Flange screw	
10	20700754	2	• Retainer	
11	20579690	1	• Sealing ring	
12	20571854	1	• Magnetic plug	
13	20839219	1	• Retainer	
14	20586720	1	• O-ring	
15	966378	4	• Flange screw	
16	20734156	1	Sealing strip	
17	20463185	16	Flange screw	
18	20808091	1	Oil filler pipe	
19	20807510	1	• Oil filler cap	
20	20365079	1	• • Rubber washer	
21	20462497	1	Connection pipe	
22	20555696	1	Sealing ring	
23	3829069	1	Bracket	
24	946440	6	Flange screw	
25	3831383	1	Hose	
26	994561	2	Hose clamp	
27	3829068	1	Pipe	L=369mm
28	975371	1	Six point socket scr	
29	21839741	1	Dipstick	
30	949187	2	• O-ring	
31	20553753	1	Oil pump	
32	21344756	4	Flange screw	
33	20708889	1	Pressure pipe	
34		1	• Fitting screw	
35	980790	1	• Ferrule	
36	1543578	1	Sealing ring	
37	20555696	2	Sealing ring	
38	20553751	1	Suction pipe	
39	20547257	1	Oil strainer	
40	8131965	1	• Strainer	
41	20547263	1	• Spacer sleeve	
42	977275	3	Flange screw	
43	3839496	6	Piston cooling jet	
44	976012	6	• O-ring	Obsolete part
45	966378	6	Flange screw	
46	20540340	1	Intermediate housing	Replaced by 21105100
	21105100	1	Intermediate housing	
47	3165142	2	Flange screw	
48	20571452	1	Outlet pipe	
49	1677370	2	Sealing ring	
50	20526428	1	Sealing ring	
51	20775471	1	Spacer sleeve	

TAD1641VE, TAD1642VE, TAD1643VE, TAD1650VE, TAD1660VE, TAD1661VE,
TAD1662VE, TAD1640VE-B, TAD1641VE-B, TAD1642VE-B, TAD1660-62VE
24715



24715

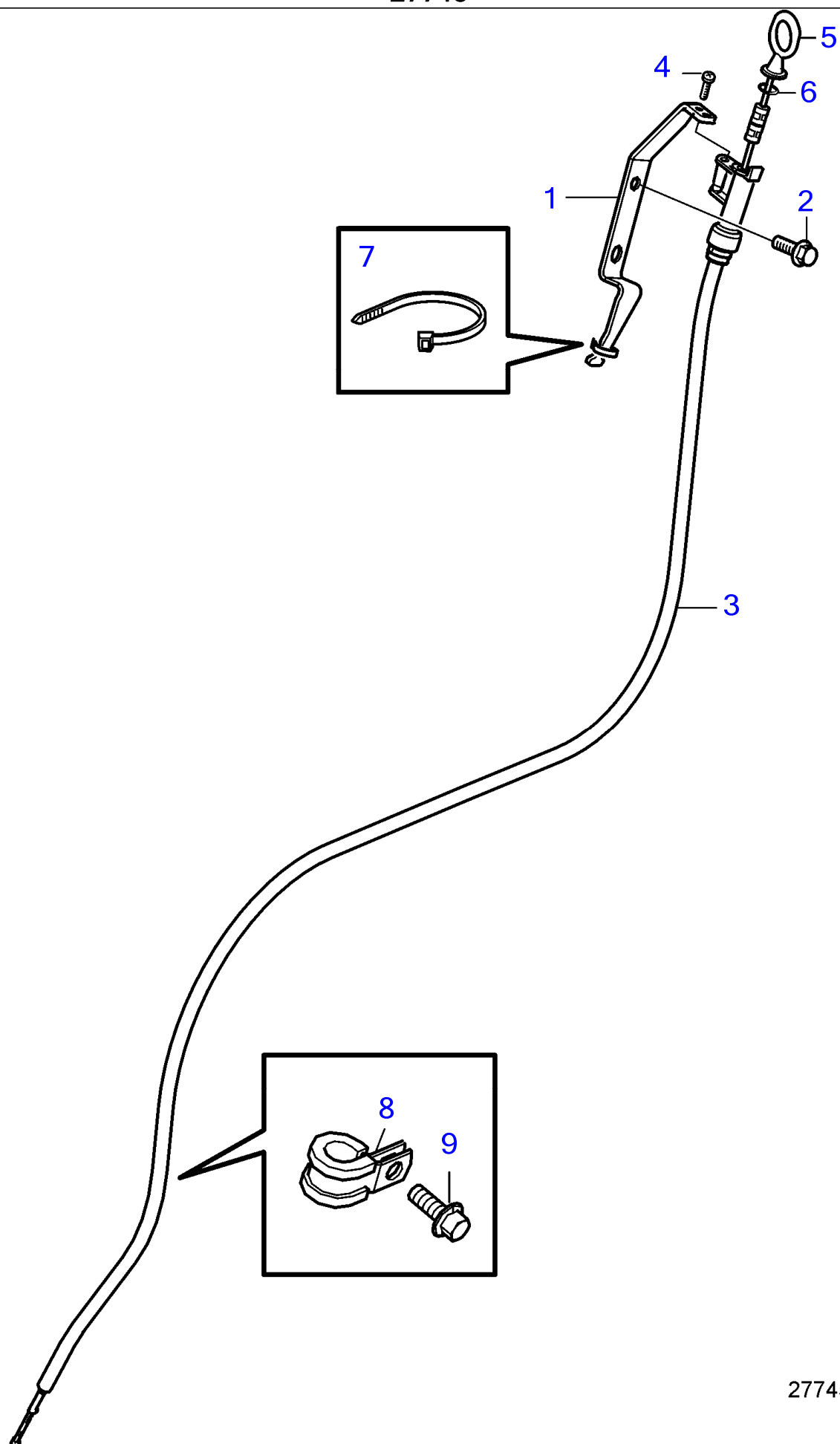
Ref	Part No.	Qty	Description	Notes
1	15032828	1	Oil pan	Replaced by 17443046
	17443046	1	Oil pan	
2		1	• Oil pan	Replaced by 21523327
3	20724256	2	• Pipe	
	21523327	1	• Pipe	Replaced by 22859764
4	949656	1	• • O-ring	
5	984734	2	• Flange screw	Replaced by 21780376
6	20533484	1	• Plug	
7	21042447	1	• Oil level sensor	Replaced by 21780376
8	944126	1	• • O-ring	
9	953035	2	• Stud	Replaced by 21780376
10	990949	2	• Flange lock nut	
11	984728	3	• Flange screw	Replaced by 21780376
12	20700754	2	• Retainer	
13	20579690	1	• Sealing ring	Replaced by 21780376
14	20571854	1	• Magnetic plug	
15	20734156	1	Sealing strip	Replaced by 21780376
16	21035968	16	Flange screw	
	22859764	16	Flange screw	Replaced by 21780376
17	11447070	1	Oil filler pipe	
18	20807510	1	Oil filler cap	Replaced by 21780376
19	20365079	1	• Rubber washer	
20	968129	1	Clamp	Replaced by 21780376
21	11158106	1	Bracket	
22	11158239	1	Hose	Replaced by 21780376
23	949746	1	Clamp	
24	20462497	1	Connection pipe	Replaced by 21780376
25	20555696	1	Sealing ring	
26	984735	2	Flange screw	Replaced by 21780376
27	11127354	1	Magnetic plug	
28	948610	1	O-ring	Replaced by 21780376
29	11128027	1	Adapter	
30	20555696	1	Sealing ring	Replaced by 21780376
	21780376	1	Sealing ring	
31	984733	2	Flange screw	Replaced by 21780376
32	40005190	1	Oil dipstick	
	23082417	1	Oil dipstick	Replaced by 21780376
33	20553753	1	Oil pump	
	21708142	1	Oil pump	Replaced by 21780376
34	975371	1	Six point socket scr	
35	11158388	1	Pipe	Replaced by 21780376
36	944124	1	O-ring	
37	1547887	4	Screw	Replaced by 21780376
38	20708889	1	Pressure pipe	
39		1	• Fitting screw	Replaced by 21780376
40	980790	1	• Ferrule	
41	1543578		Sealing ring	Replaced by 21780376
42	20547257	1	Oil strainer	
43	8131965	1	• Strainer	Replaced by 21780376
44	20547263	1	• Spacer sleeve	
45	1547887	3	Screw	Replaced by 21780376
46	20553751	1	Suction pipe	
47	20555696	2	Sealing ring	Replaced by 21780376
	21780376	1	Sealing ring	
48	20521450	6	Piston cooling jet	Replaced by 21780376
49	976012	6	• O-ring	
50	966378	6	Flange screw	Replaced by 21780376
51	20574700	1	Control valve	
	21452473	1	Control valve	Replaced by 21780376
	21596642	1	Control valve	
52	20526428	1	• Sealing ring	Replaced by 21780376
53	20775471	1	Spacer sleeve	
54	969225	2	Flange screw	Replaced by 21780376
55	192288	2	Washer	
56	1677370	2	Sealing ring	Replaced by 21780376
57	20571452	1	Outlet pipe	



22 Lubricating Oil System with Aluminum Sump

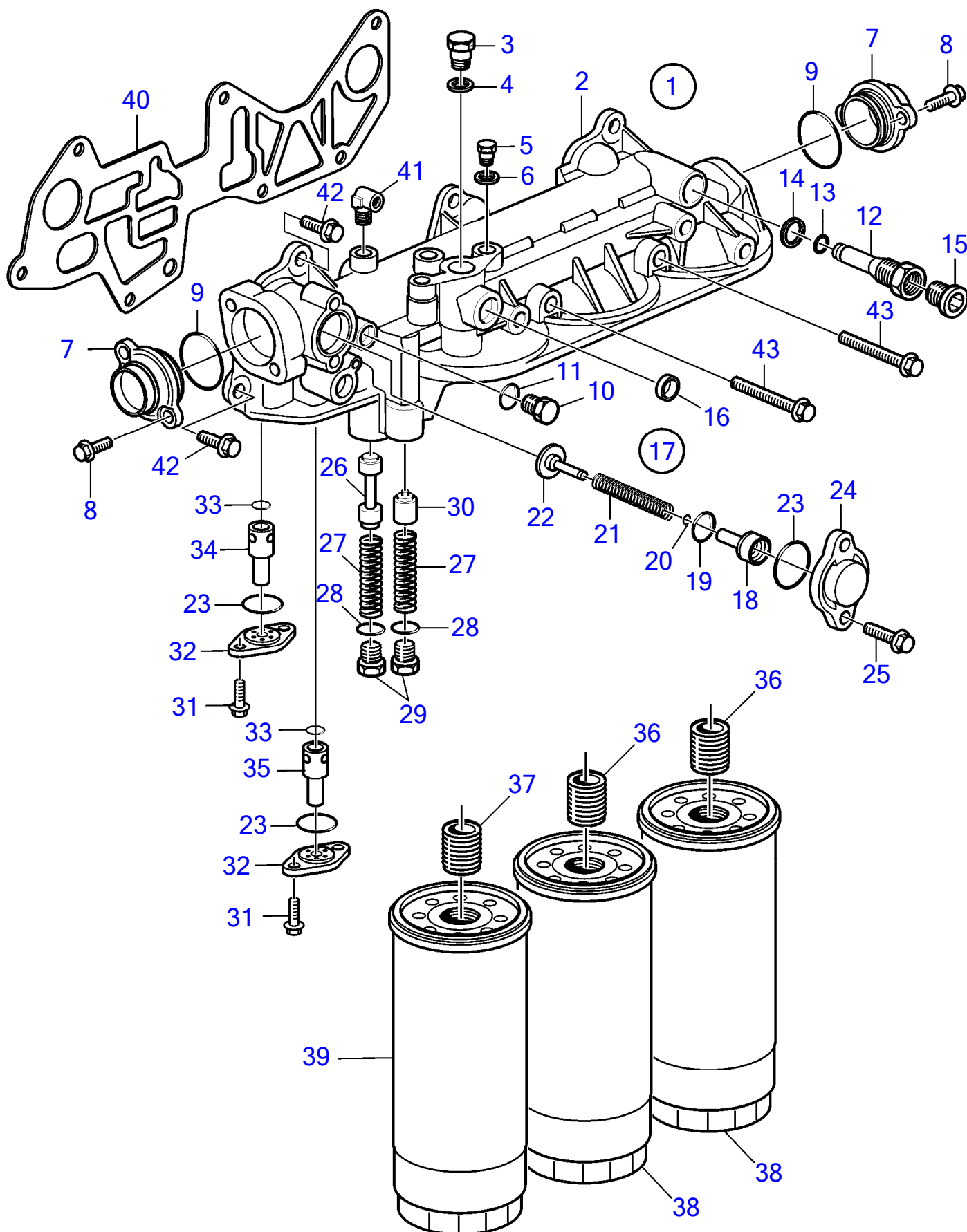
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Ref	Part No.	Qty	Description	Notes
1	15032828	1	Oil pan	Replaced by 17443046
	17443046	1	Oil pan	
2		1	• Oil pan	
3	20724256	2	• Pipe	
4	949656	2	• • O-ring	
5	984734	2	• Flange screw	
6	24424110	1	• Sensor	Replaced by sender 21042447.
	21042447	1	• Oil level sensor	
7	990719	1	• • O-ring	
8	984728	3	• Flange screw	
9	990949	2	• Flange lock nut	
10	953035	2	• Stud	
11	20700754	2	• Retainer	
12	948610	1	O-ring	
13	11127354	2	Magnetic plug	
14	3964803	1	Plug	
15	20555696	4	Sealing ring	
16	984733	7	Flange screw	
17	20533484	1	Plug	
18	20463185	16	Flange screw	
19	20734156	1	Sealing strip	
20	20808091	1	Oil filler pipe	
21	20807510	1	• Oil filler cap	
22	20365079	1	• • Rubber washer	
23	21328920	1	Hose	
24	994561	2	Hose clamp	
25	20462497	1	Connection pipe	
26	984735	2	Flange screw	
27	3829069	1	Bracket	
28	11158388	1	Pipe	
29	11129411	1	Anchorage	
30	944124	1	• O-ring	
31	40005190	1	Oil dipstick	SN-2016107256
	23082417	1	Oil dipstick	SN2016107257-
32	22104648	1	Bracket	
33	975371	1	Six point socket scr	
34	952626	1	Clamp	
35	955271	1	Hexagon screw	
36	21361329	1	Bracket	
37	20784686	1	Flange screw	
38	20553753	1	Oil pump	
39	21344756	4	Flange screw	
40	20708889	1	Pressure pipe	
41		1	• Fitting screw	
42	980790	1	• Ferrule	
43	1543578	1	Sealing ring	
44	20553751	1	Suction pipe	
45	20547257	1	Oil strainer	
46	8131965	1	• Strainer	
47	20547263	1	• Spacer sleeve	
48	977275	3	Flange screw	
49	3839496	6	Piston cooling jet	
50	976012	6	• O-ring	
51	966378	6	Flange screw	
52	21105100	1	Intermediate housing	
53	3165142	2	Flange screw	
54	20571452	1	Outlet pipe	
55	1677370	2	Sealing ring	
56	20526428	1	Sealing ring	
57	20775471	1	Spacer sleeve	

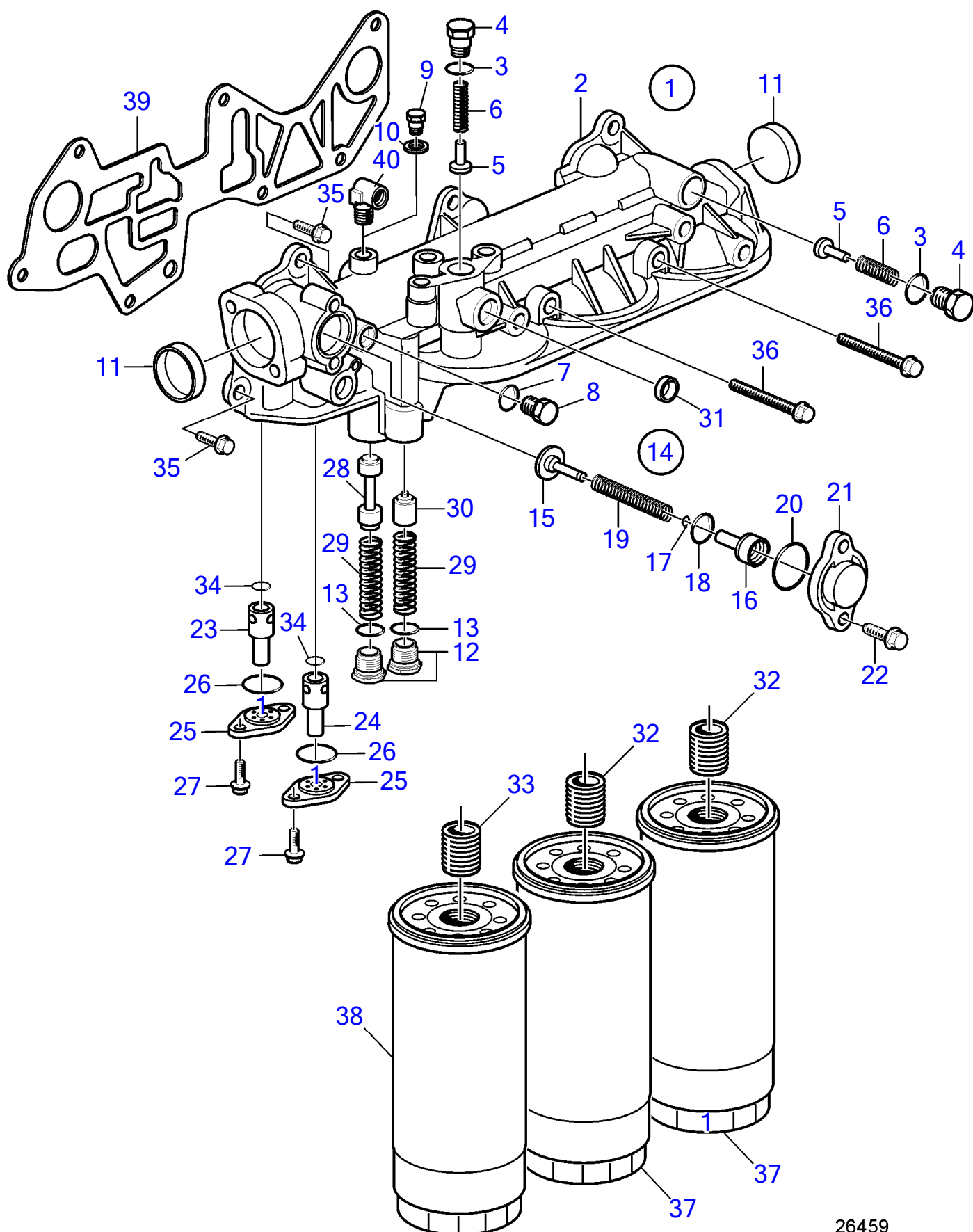


22 Extended Dipstick for Aluminum SumpTAD1641VE, TAD1642VE, TAD1643VE, TAD1650VE, TAD1660VE, TAD1661VE, TAD1662VE,
TAD1640VE-B, TAD1641VE-B, TAD1642VE-B

Ref	Part No.	Qty	Description	Notes
1	20441392	1	Bracket	
2	984751	1	Flange screw	
3	21409692	1	Pipe	SN-2016107256
	23088101	1	Pipe	SN2016107257-
4	975371	1	Six point socket scr	
5	20871321	1	Dipstick	
6	969198	2	· O-ring	
7	948211	1	Cable tie	
8	952626	1	Clamp	
9	984726	1	Flange screw	



Ref	Part No.	Qty	Description	Notes
1	21169074	1	Oil filter housing	Replaced by 22655069
2		1	Oil filter housing	
3	960632	1	• Plug	
4	947627	1	• Gasket	
5	471598	1	• Plug	
6	11998	1	• Gasket	
7	11158479	2	• Adapter	
8	984733	4	• Flange screw	
9	948610	2	• O-ring	
10	960632	2	• Plug	
11	11998	2	• Gasket	
12	3835956	1	• Nipple	
13	976030	1	• O-ring	
14	947627	2	• Gasket	
15	984793	1	• Plug	
16	946778	1	• Cap plug	
17	3169687	1	• Relief valve	
18		1	• • Valve guide	
19	976039	1	• • O-ring	(980936)
20	955964	1	• • Snap ring	
21		1	• • Spring	
22		1	• • Valve	
23	949659	3	• O-ring	
24	3184806	1	• Cover	
25	984727	2	• Flange screw	
26	20440781	1	• Piston	
27	20464676	2	• Spring	
28	947629	2	• Gasket	
29	21235758	2	• Plug	
30	20440779	1	• Valve cone	
31	984725	4	• Flange screw	
32	471648	2	• Cover	
33	469846	2	• Sealing ring	
34	471812	1	• Reduction valve	Black
35	22188378	1	• Reduction valve	Purple
36	466623	2	• Nipple	
37	469904	1	• Nipple	
38	21707133	2	Oil filter	
			• Bulletin P-18-3-11	QUANT PAC of Maintenance parts
39	21707132	1	Oil filter	
			• Bulletin P-18-3-11	QUANT PAC of Maintenance parts
40	21497512	1	Gasket	
41	992106	1	Elbow nipple	
42	984735	5	Flange screw	
43	984747	2	Flange screw	

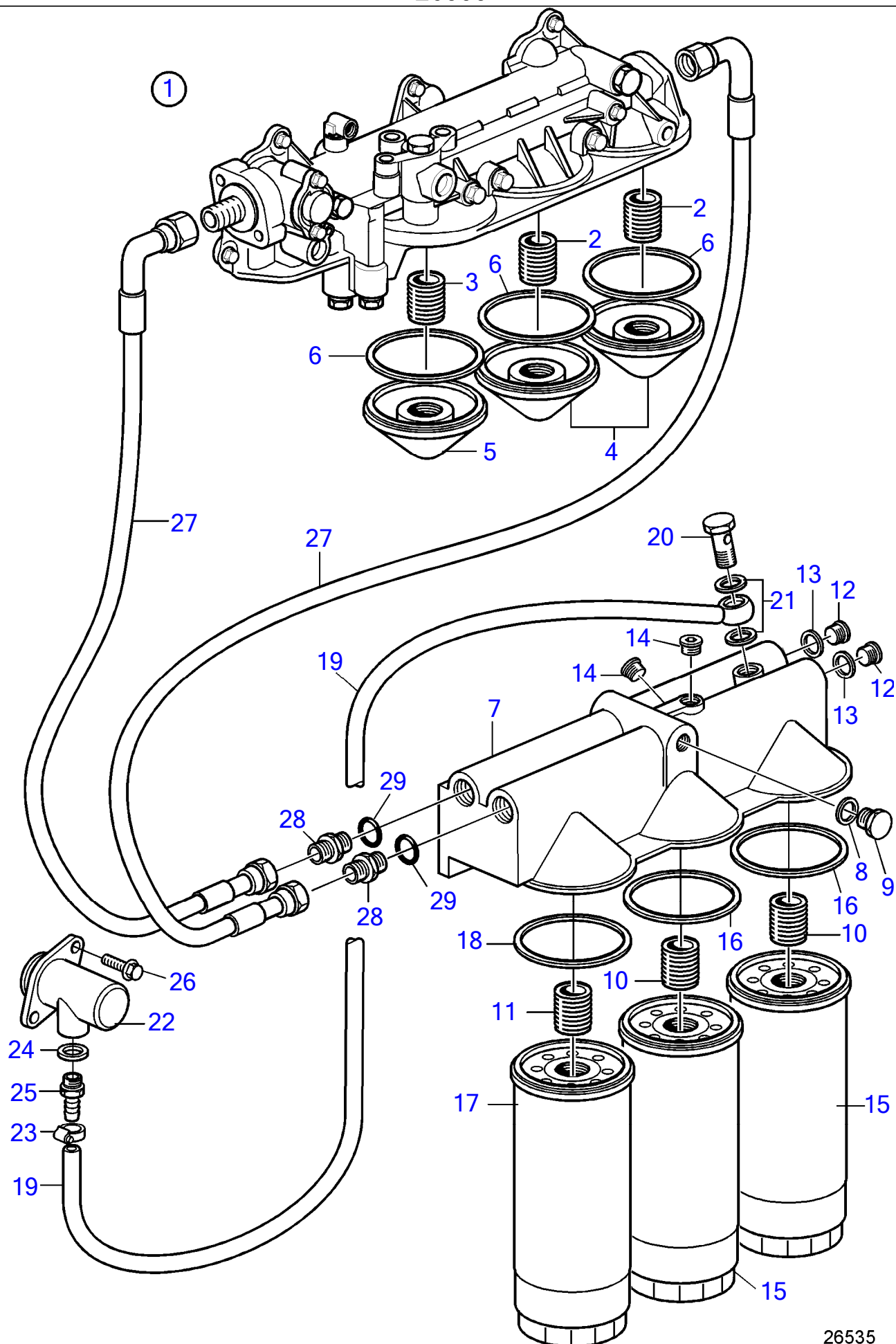


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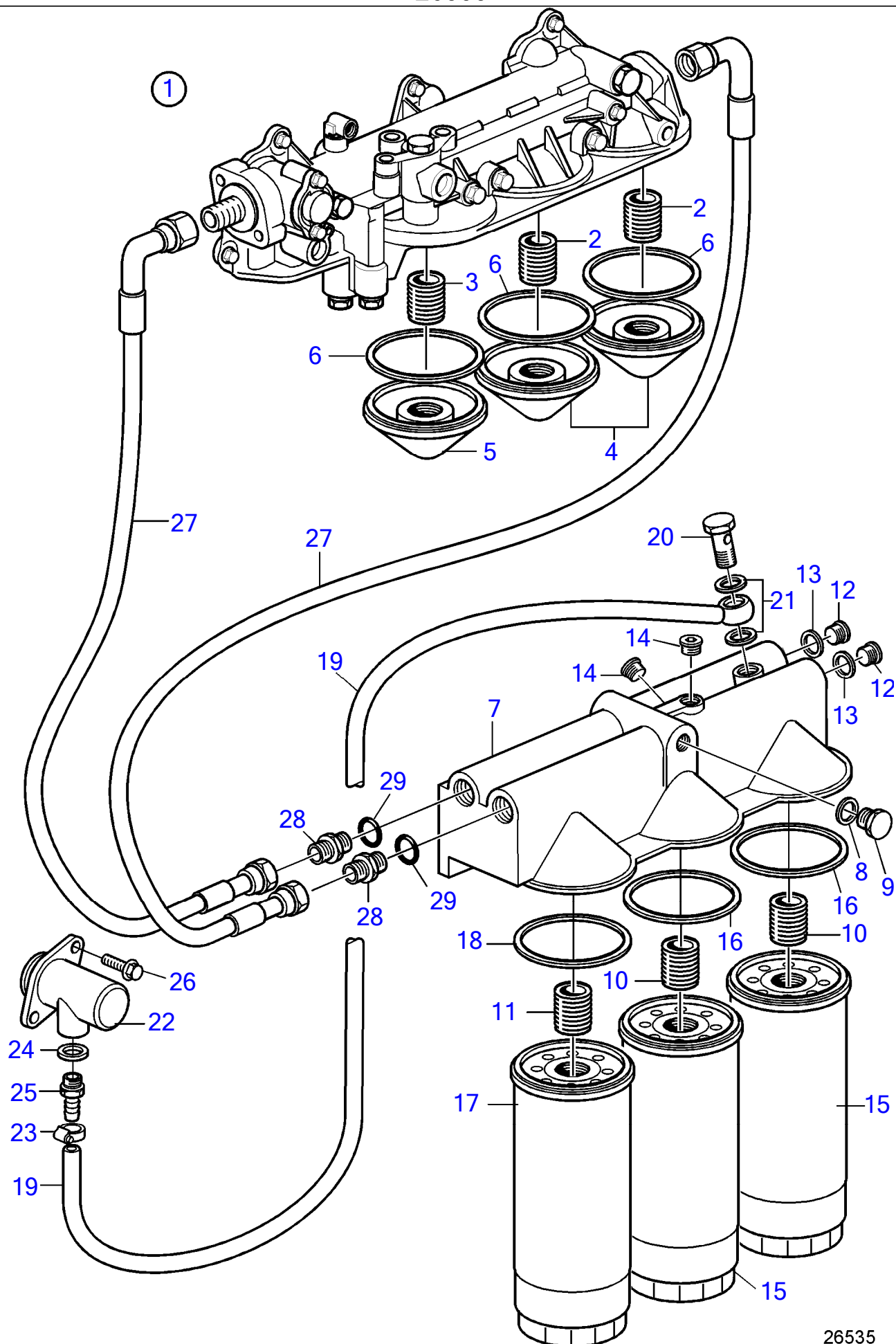
22 Oil Filter Housing and Oil Filter

TAD1641VE, TAD1642VE, TAD1643VE, TAD1660VE, TAD1661VE, TAD1662VE, TAD1640VE-B,
TAD1641VE-B, TAD1642VE-B

Ref	Part No.	Qty	Description	Notes
1	20586031	1	Oil filter housing	
2	(81311101)	1	• Oil filter housing	Obsolete part
3	947627	2	• Gasket	
4	471598	2	• Plug	
5	471085	2	• Valve cone	
6	466653	2	• Compression spring	
7	11998	2	• Gasket	
8	960632	2	• Plug	
9	960628	1	• Plug	
10	947281	1	• Gasket	
11	20478143	2	• Expansion plug	
12	21235758	2	• Plug	
13	947629	2	• Gasket	
14	3169687	1	• Relief valve	
15		1	• • Valve	
16		1	• • Valve guide	
17	955964	1	• • Snap ring	
18	976039	1	• • O-ring	
19		1	• • Spring	
20	949659	1	• O-ring	
21	3184806	1	• Cover	
22	984727	2	• Flange screw	
23	22416685	1	• Reduction valve	
24	21068158	1	• Reduction valve	
25	471648	2	• Cover	
26	949659	2	• O-ring	
27	984725	4	• Flange screw	
28	20440781	1	• Piston	
29	20464676	2	• Spring	
30	20440779	1	• Valve cone	
31	946778	1	• Cap plug	
32	466623	2	• Nipple	
33	469904	1	• Nipple	
34	469846	2	• Sealing ring	
35	984735	5	Flange screw	
36	984747	2	Flange screw	
37	21707133	2	Oil filter	
			• Bulletin P-18-3-11	QUANT PAC of Maintenance parts
38	21707132	1	Oil filter, bypass	
			• Bulletin P-18-3-11	QUANT PAC of Maintenance parts
39	21497512	1	Gasket	
40	992106	1	Elbow nipple, pressure monitor/piston cooling	
	949402	1	Reduction nipple	Connected to Oil filter Housing 23307298!use also gasket 11998



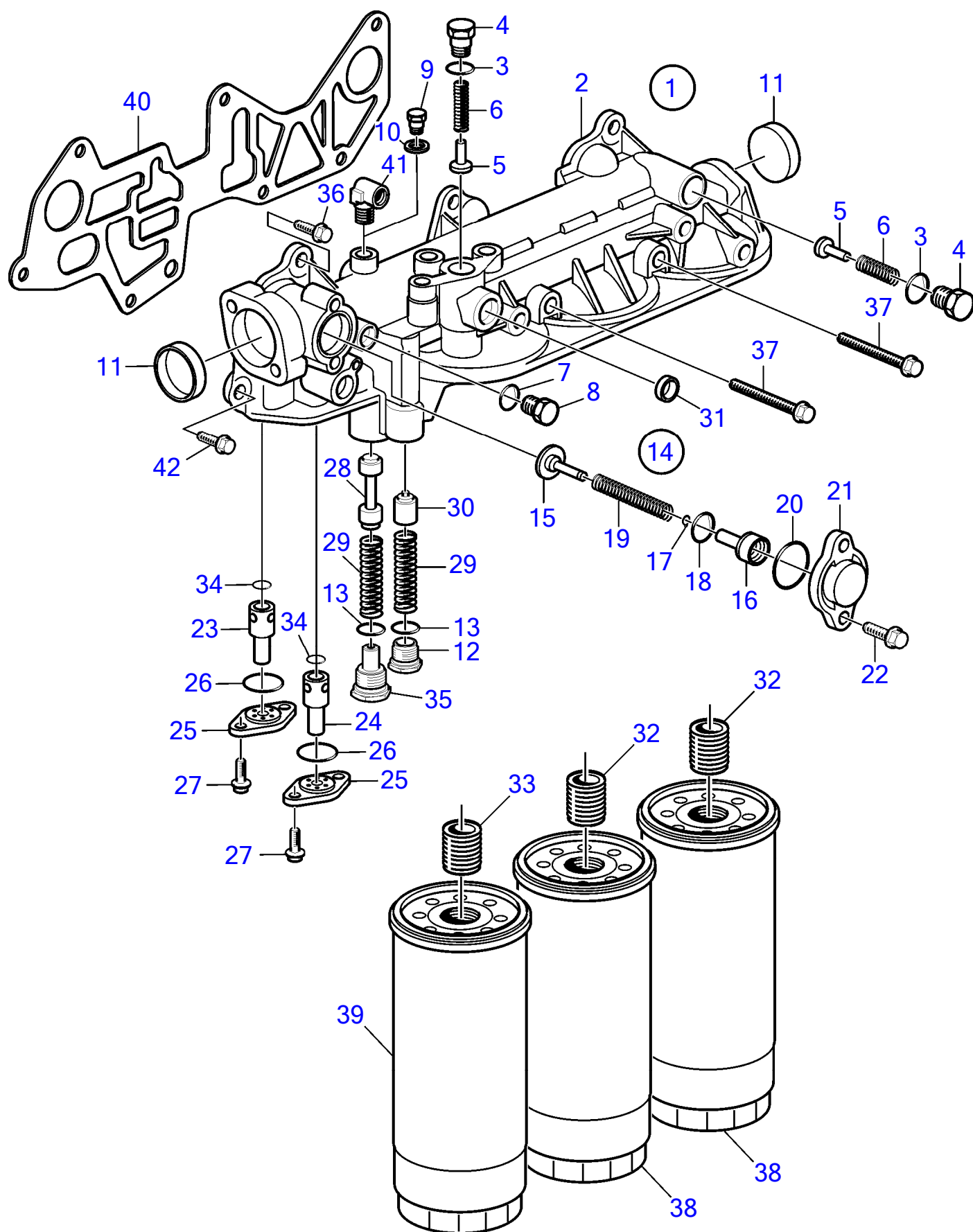
Ref	Part No.	Qty	Description	Notes
1	21169074	1	Oil filter housing	
2	466623	2	• Nipple	
3	469904	1	• Nipple	
4	21145970	2	Cover	
5	21145971	1	Cover	
6	993235	3	X-ring	
7	11127988	1	Oil filter housing	
8	976932	1	• Gasket	
9	471598	1	• Plug	
10	466623	2	• Nipple	
11	469904	1	• Nipple	
12	942352	2	Plug	
13	982508	2	Gasket	
14	984793	2	Plug	
15	21707133	2	Oil filter	
			• Bulletin P-18-3-11	QUANT PAC of Maintenance parts
16		2	• Gasket	
17	21707132	1	Oil filter	
			• Bulletin P-18-3-11	QUANT PAC of Maintenance parts
18		1	• Gasket	
19	21521886	1	Hose	
20	991048	1	Hollow screw	
21	20852764	2	Sealing ring	
22	3819332	1	Pipe	
23	961664	1	Hose clamp	
24	969011	1	Gasket	
25	20405767	1	Hose nipple	
26	984733	2	Flange screw	
27	21169079	2	Hose	
28	11158220	2	Adapter	
29	982508	2	Gasket	



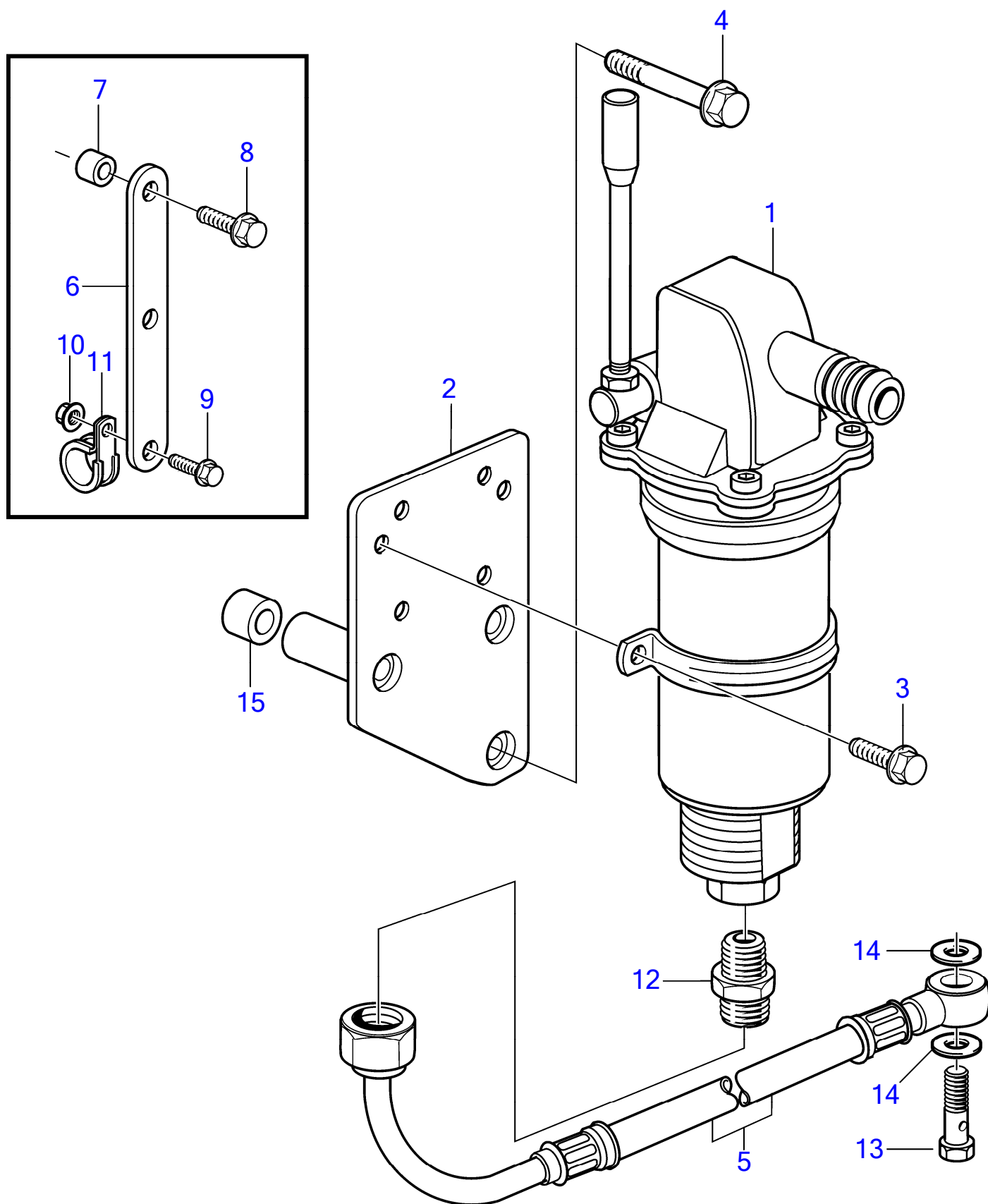
22 Oil Filter Housing and Oil Filter, Remote Mounting SN2016095501-

TAD1641VE, TAD1642VE, TAD1643VE, TAD1640VE-B, TAD1641VE-B, TAD1642VE-B

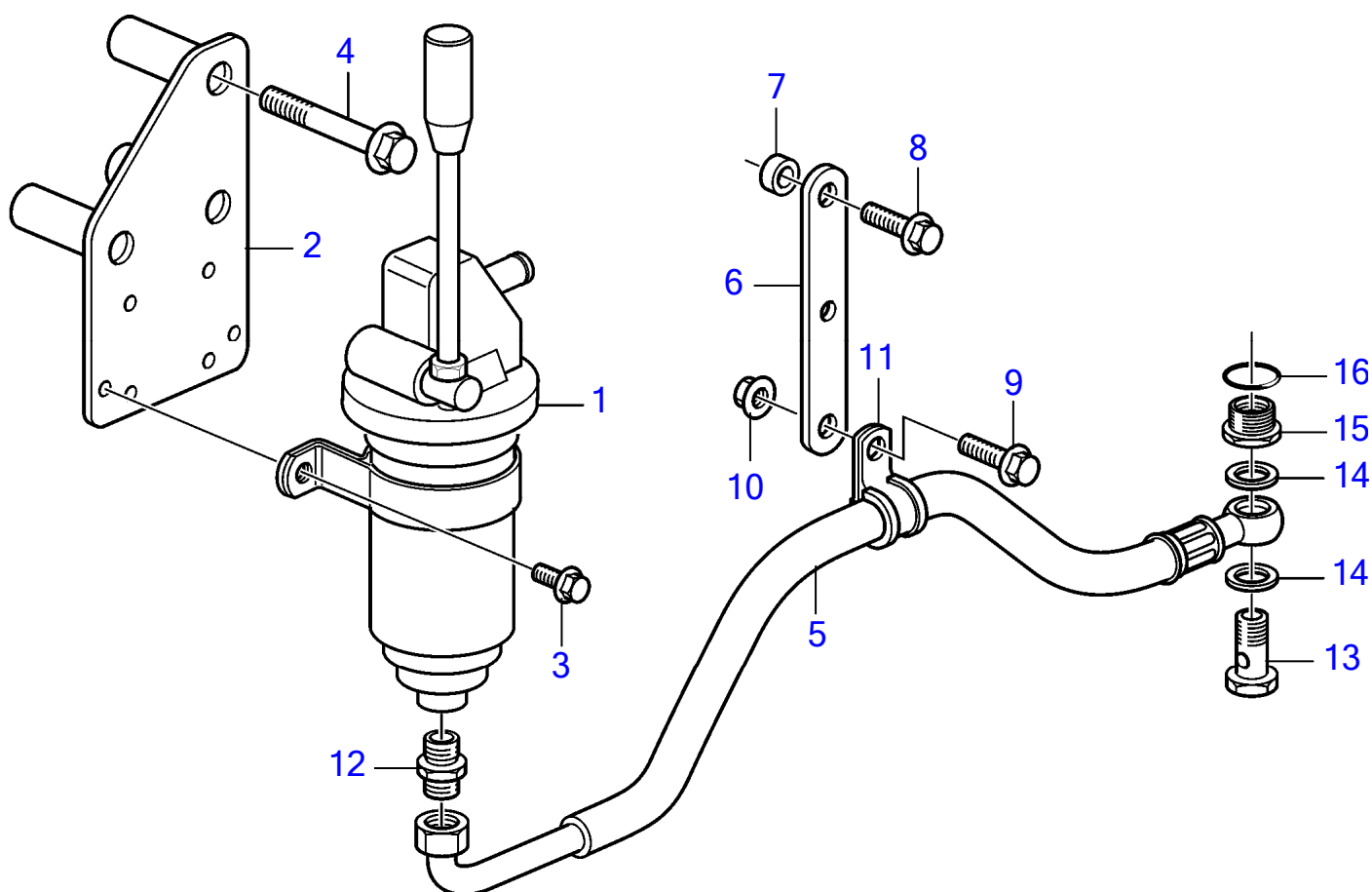
Ref	Part No.	Qty	Description	Notes
1	22655069	1	Oil filter housing	
2	466623	2	• Nipple	
3	469904	1	• Nipple	
4	21145970	2	Cover	
5	21145971	1	Cover	
6	993235	3	X-ring	
7	17427991	1	Oil filter housing	
8	949410	1	• O-ring	
9	17425684	1	• Plug	
10	466623	2	• Nipple	
11	469904	1	• Nipple	
12	966147	2	Plug	
13	982509	2	Gasket	
14	984793	2	Plug	
15	21707133	2	Oil filter	
			• Bulletin P-18-3-11	QUANT PAC of Maintenance parts
16		2	• Gasket	
17	21707132	1	Oil filter	
			• Bulletin P-18-3-11	QUANT PAC of Maintenance parts
18		1	• Gasket	
19	21521886	1	Hose	
20	991048	1	Hollow screw	
21	20852764	2	Sealing ring	
22	3819332	1	Pipe	
23	961664	1	Hose clamp	
24	969011	1	Gasket	
25	20405767	1	Hose nipple	
26	984733	2	Flange screw	
27	21169079	2	Hose	
28	17222136	2	Adapter	
29	982509	2	Gasket	



Ref	Part No.	Qty	Description	Notes
1	20586031	1	Oil filter housing	
2	(81311101)	1	• Oil filter housing	Obsolete part
3	947627	2	• Gasket	
4	471598	2	• Plug	
5	471085	2	• Valve cone	
6	466653	2	• Compression spring	
7	11998	2	• Gasket	
8	960632	2	• Plug	
9	960628	1	• Plug	
10	947281	1	• Gasket	
11	20478143	2	• Expansion plug	
12	20381215	1	• Plug	
13	947629	2	• Gasket	
14	3169687	1	• Relief valve	
15		1	• • Valve	
16		1	• • Valve guide	
17	955964	1	• • Snap ring	
18	976039	1	• • O-ring	
19		1	• • Spring	
20	949659	1	• O-ring	
21	3184806	1	• Cover	
22	947542	2	• Flange screw	
23	3826265	1	• Reduction valve	
24	471706	1	• Reduction valve	
25	471648	2	• Cover	
26	949659	2	• O-ring	
27	946544	4	• Flange screw	
28	20440781	1	• Piston	
29	20464676	2	• Spring	
30	20440779	1	• Valve cone	
31	946778	1	• Cap plug	
32	466623	2	• Nipple	
33	469904	1	• Nipple	
34	469846	2	• Sealing ring	
35	20778493	1	Plug	
36	984735	3	Flange screw	
37	984747	2	Flange screw	
38	478736	2	Oil filter	
39	477556	1	Oil filter	
40	20823322	1	Gasket	
41	990916	1	Elbow nipple, pressure monitor/piston cooling	Replaced by elbow nipple 992106.
	992106	1	Elbow nipple	
	949402	1	Reduction nipple	Connected to Oil filter Housing 23307298!use also gasket 11998
42	984735	2	Flange screw	

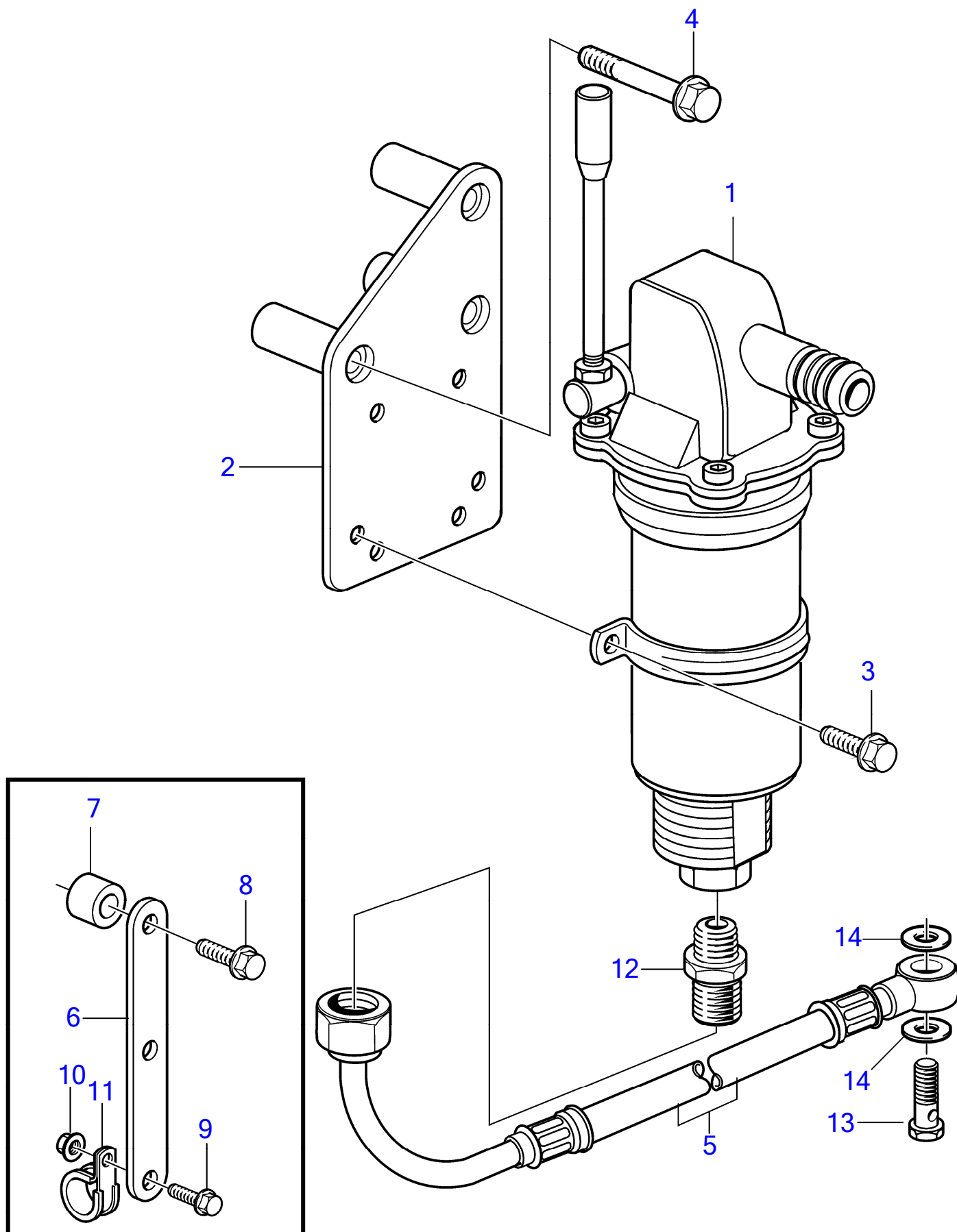


Ref	Part No.	Qty	Description	Notes
1	3827475	1	Oil drain pump	
2	3836697	1	Bracket	
3	984734	2	Flange screw	
4	975127	3	Flange screw	L=90mm
5	21276558	1	Oil hose	
6	3829091	1	Bracket	
7	20573472	1	Spacer sleeve	
8	984737	1	Flange screw	
9	984734	1	Flange screw	
10	990940	1	Flange nut	
11	949379	1	Clamp	
12	944177	1	Nipple	
13	966821	1	Hollow screw	
14	18813	2	Gasket	
15	984678	3	Spacer sleeve	



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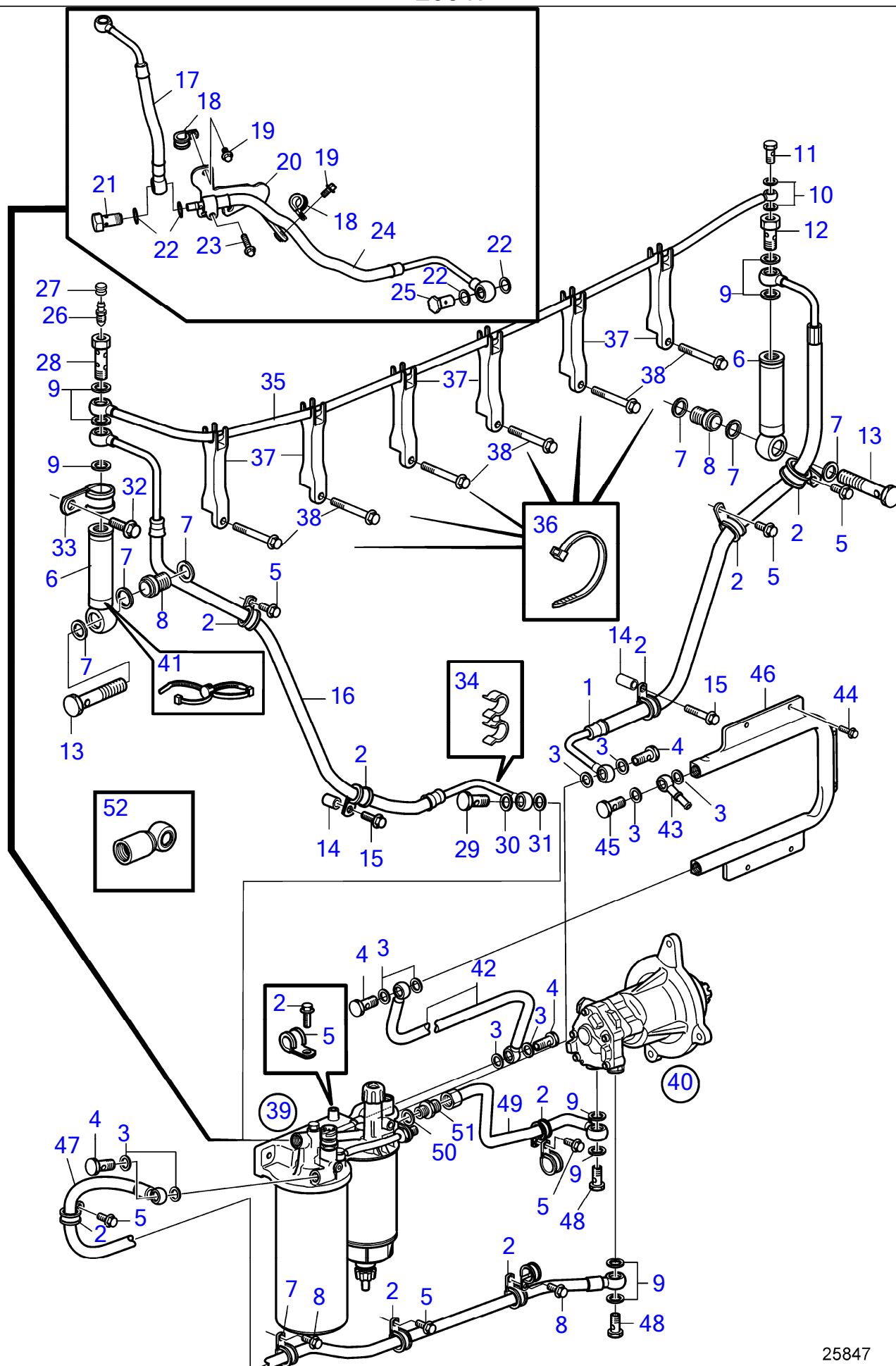
Ref	Part No.	Qty	Description	Notes
1	3827475	1	Oil drain pump	
2	3836697	1	Bracket	
3	984733	2	Flange screw	
4	975127	3	Flange screw	
5	3838152	1	Oil hose	
6	3829091	1	Bracket	
7	20573472	1	Spacer sleeve	
8	984737	1	Flange screw	Alt M8x35mm
	984754	1	Flange screw	Alt M10x35mm
9	984734	1	Flange screw	
10	990940	1	Flange nut	
11	949379	1	Clamp	
12	944177	1	Nipple	
13	966821	1	Hollow screw	
14	18813	2	Gasket	
15	21171958	1	Plug	
16	948610	1	O-ring	



22 Oil Drain Pump and Installation Parts, Engine Mounted

TAD1660VE, TAD1661VE, TAD1662VE

Ref	Part No.	Qty	Description	Notes
1	3827475	1	Oil drain pump	
2	3836697	1	Bracket	
3	984734	2	Flange screw	
4	975127	3	Flange screw	L=90mm
	975130	3	Flange screw	L=120mm
5	21276558	1	Oil hose	
6	3829091	1	Bracket	
7	20573472	1	Spacer sleeve	
8	984754	1	Flange screw	
9	984734	1	Flange screw	
10	990940	1	Flange nut	
11	949379	1	Clamp	
12	944177	1	Nipple	
13	966821	1	Hollow screw	
14	18813	2	Gasket	

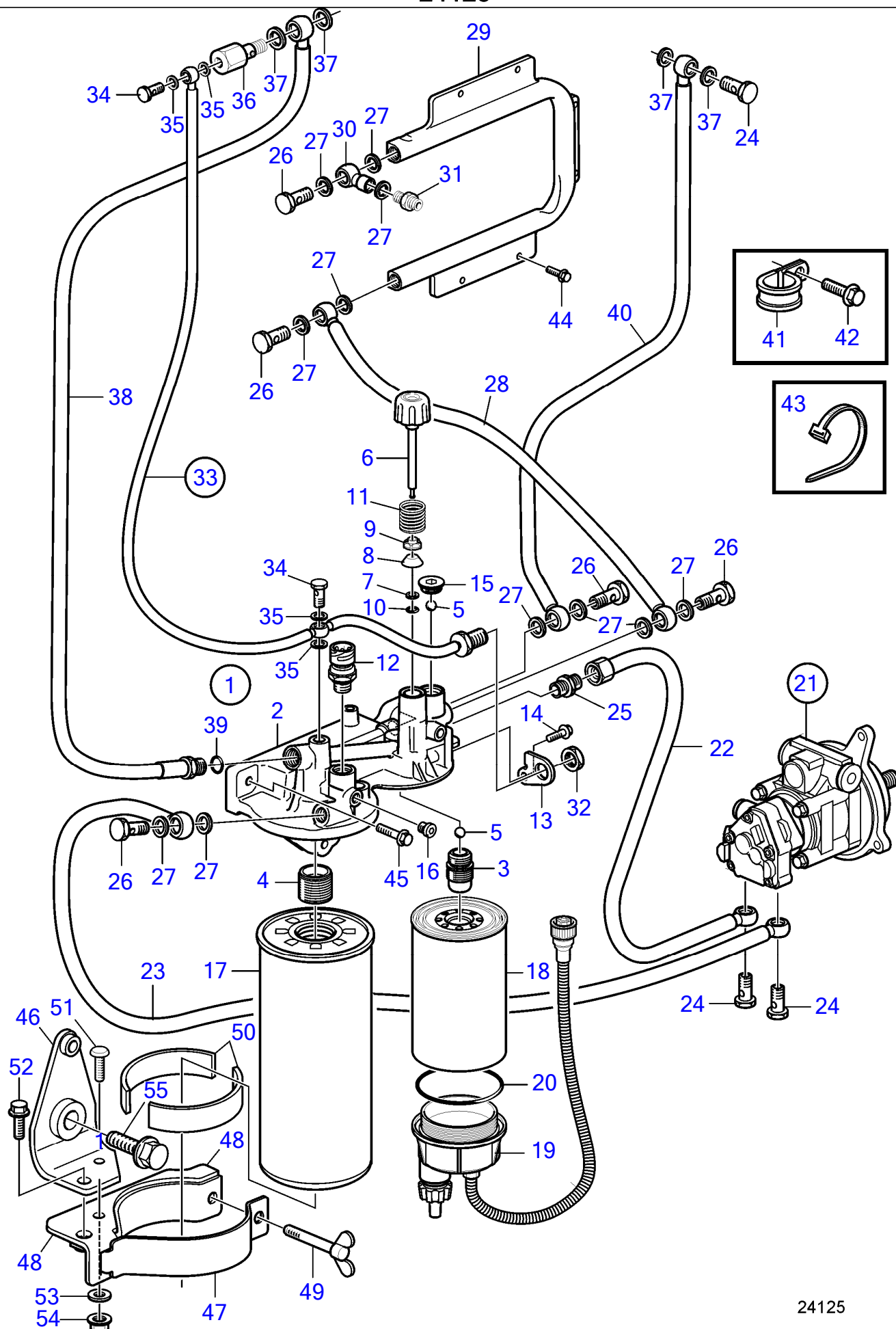


Ref	Part No.	Qty	Description	Notes
1	21193225	1	Fuel hose	
2	949747	9	Clamp	
3	20852764	10	• Sealing ring	
4	991048	3	• Hollow screw	
5	984733	9	Flange screw	
6	21775773	2	Riser	
7	20899253	4	Sealing ring	
8	21145051	1	Spacer tube	
9	20852765	11	• Sealing ring	
10	20852762	2	Sealing ring	
11	48634	1	Hollow screw	
12	21159427	1	Hollow screw	
13	21184847	1	• Hollow screw	
14	826652	2	Spacer sleeve	
15	984737	1	Flange screw	
16	21187595	1	Fuel hose	SN-2016111523
17	78490149	1	Fuel hose	SN2016111524-
18	949747	2	Clamp	
19	984733	2	Flange screw	
20	78490145	1	Bracket	SN2016111524-
21	21140647	1	Overflow valve	SN2016111524-
22	20883435	4	Sealing ring	
23	984738	1	Flange screw	
24	78490150	1	Fuel hose	SN2016111524-
25	190714	1	Hollow screw	
26	20548012	1	Faucet	
27	20547976	1	Protecting cover	
28	3595373	1	Hollow screw	
29	21140647	1	Overflow valve	
30	976931	1	Gasket	
31	11998	1	Gasket	
32	984736	1	Flange screw	
33	982258	1	Clamp	
34	3545508	1	Retainer	
35	21452472	1	Fuel hose	Replaced by 23267468
	23267468	1	Fuel hose	
36	948211	6	Cable tie	
37	21132217	6	Bracket	
38	984742	6	Flange screw	
39	21168827	1	Fuel filter housing	
			•	
			•	
40	20902698	1	Tandem pump	With servo pump., 16L/min, (20902692, SN-1090227176, Compl, (20482482)
	22677520	1	Fuel pump	Without servo pump., Compl, (3594872)
			•	
41	20885497	1	Retainer	
42	21316273	1	Fuel pipe	
43	3587322	1	Banjo nipple	
44	948746	6	Flange screw	
45	25167	1	Hollow screw	
46	20562394	1	Radiator	
47	20909822	1	Fuel pipe	
48	991046	2	Hollow screw	
49	20909808	1	Fuel pipe	
50	993685	1	Gasket	
51	946602	1	Nipple	
52	993616	1	Banjo nipple	Return, 1/4", For TWD1663GE
	993850	1	Banjo nipple	Inlet, 3/8", For TWD1663GE

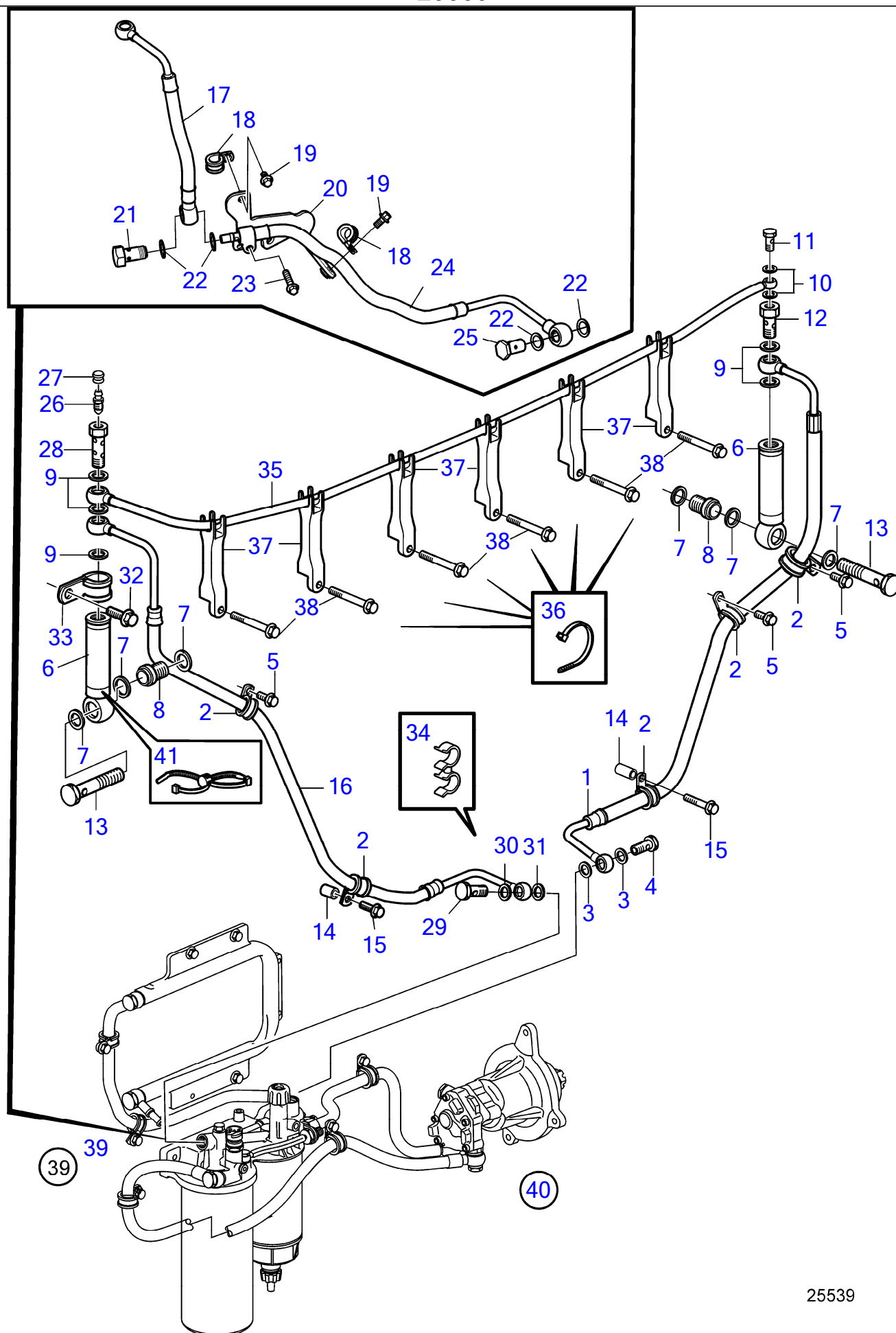
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Ref	Part No.	Qty	Description	Notes
1		1	Filter housing	
			.	
			.	
2	20909808	1	Fuel pipe	
3	20852765	2	• Sealing ring	
4	991046	1	• Hollow screw	
5	20909822	1	Fuel pipe	
6	20852765	2	• Sealing ring	
7	991046	1	• Hollow screw	
8		1	Fuel pump	
			.	
			.	
9	20562394	1	Radiator	
10	190390	1	Banjo nipple	
11	948746	6	Flange screw	
12	20852764	5	Sealing ring	
13	941754	1	Nipple	
14	25167	2	Hollow screw	
15	3888420	1	Fuel hose	
16	3849938	1	Fuel hose	
17	984737	1	Flange screw	
18	1545432	1	Attaching clamp	
19	826652	2	Spacer sleeve	
20	3888407	1	Fuel hose	
21	21014054	1	Overflow valve	
22	20852765	14	Sealing ring	
23	3593826	1	Fuel hose	Replaced by 21187595
	21187595	1	Fuel hose	If fuel hose is changed to 21193225 must also valve 21140647 be mounted in the fuel filter
24	984740	1	Flange screw	
25	991656	1	Spacer sleeve	
26	21775773	2	Riser	If change of riser must also clamp, hollow screw, spacer tube, retainer and gaskets be changed
27	190713	1	Hollow screw	
28	3849956	1	Spacer tube	
29	20899253	2	Sealing ring	
30	3593502	1	Fuel hose	
31	3595373	1	Hollow screw	
32	20548012	1	Faucet	
33	20547976	1	Protecting cover	
34	845999	4	Bracket	Only for TAD1640GE, TAD1641GE, TAD1642GE
35	984733	X	Flange screw	
36	942542	4	Clamp	
37	990940	4	Flange nut	
38	992272	2	Reduction nipple	
39	3595375	1	Hollow screw	
40	20852762	2	Sealing ring	
41	48634	1	Hollow screw	
42	943717	1	Clamp	
43	984733	1	Flange screw	
44	3594418	1	Stay	
45	949747	X	Clamp	
46	984734	2	Flange screw	
47	20909744	1	Fuel pipe	
48	948211	X	Cable tie	Only for TWD1643GE
49	8143276	1	Retainer	
50	3587322	1	Banjo nipple	Only for TAD1640GE, TAD1641GE, TAD1642GE
51	993850	1	Banjo nipple	Only for TAD1640GE, TAD1641GE, TAD1642GE
52	861057	X	Fuel hose	3/8", Only for TAD1640GE, TAD1641GE, TAD1642GE
			• Bulletin P-23-4-4	Fuel Hose P/N 861057
53	993979	X	Hose clamp	Only for TAD1640GE, TAD1641GE, TAD1642GE
54	965560	1	Bracket	Only for TWD1643GE
55	946502	1	Flange screw	Only for TWD1643GE
56	990940	1	Flange nut	Only for TWD1643GE
57	21193225	1	Fuel hose	Should be mounting when fuel filter housing 3848884 changes to housing 21168827
58	949747	5	Clamp	Should be mounting when fuel filter housing 3848884 changes to housing 21168827
59	848229	1	Spacer sleeve	Should be mounting when fuel filter housing 3848884 changes to housing 21168827
60	984733	4	Flange screw	Should be mounting when fuel filter housing 3848884 changes to housing 21168827
61	994385	1	Flange screw	Should be mounting when fuel filter housing 3848884 changes to housing 21168827
62	20852765	2	Sealing ring	Should be mounting when fuel filter housing 3848884 changes to housing 21168827
63	20852764	2	Sealing ring	Should be mounting when fuel filter housing 3848884 changes to housing 21168827



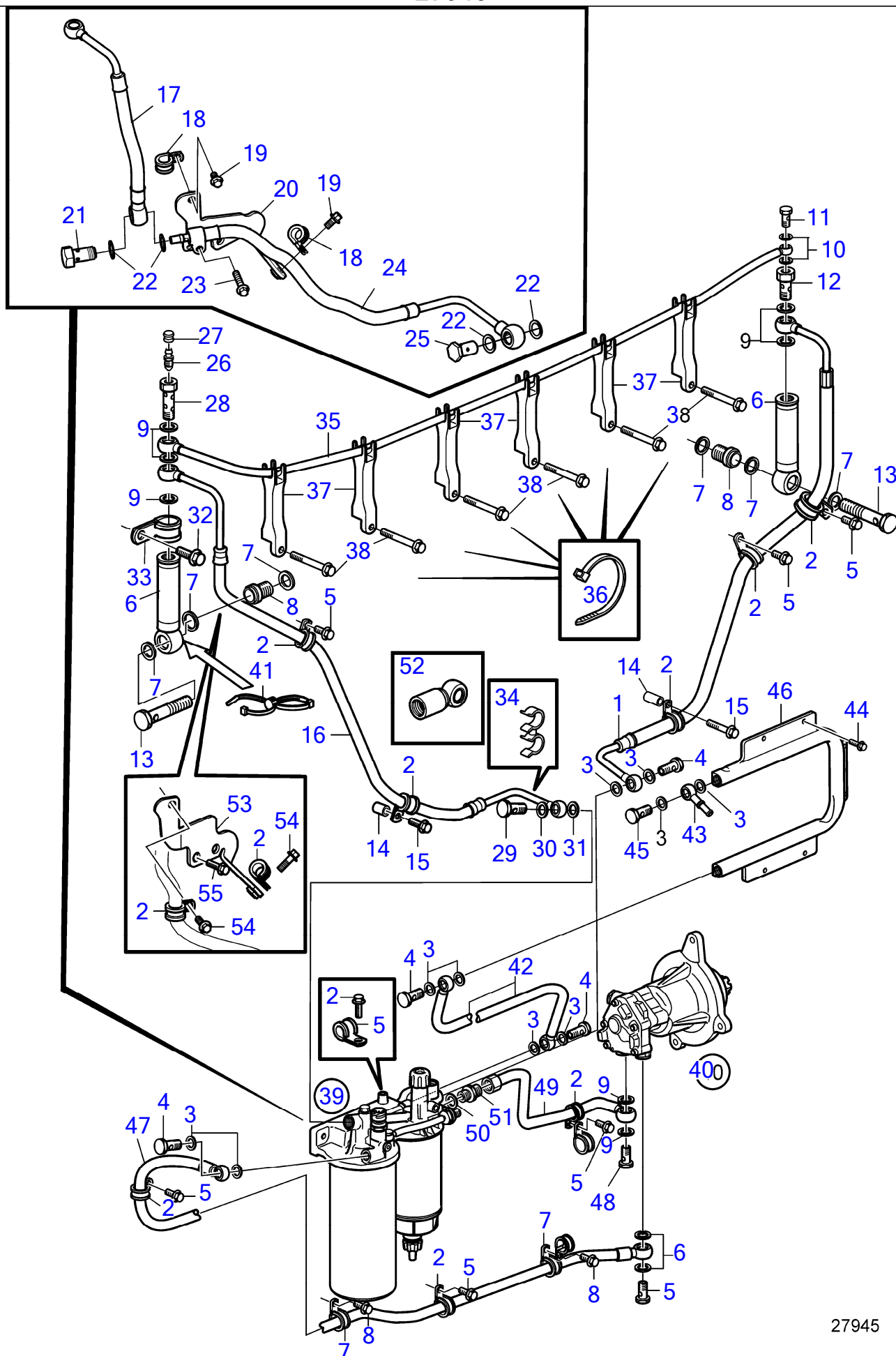
Ref	Part No.	Qty	Description	Notes
1	20873675	1	Fuel filter housing	Replaced by 21023287
	21023287	1	Fuel filter housing	
2		1	• Housing	
3		1	• Nipple	
4	20511511	1	• Nipple	
5	20528999	2	• Ball	
6	(20784020)	1	• Pump shaft	Obsolete part
7			• Washer	
8	(20528992)	1	• Plunger	Obsolete part
9	(20528991)	1	• Support ring	Obsolete part
10		1	• O-ring	
11	(20784027)	1	• Spring	Obsolete part
12		1	• Pressure sensor	
13		1	• Bracket	
14	20784686	1	• Flange screw	
15	20744692	1	• Cap	
16			• Plug	
17	20430751	1	Fuel filter	Replaced by 20976003
	20976003	1	Fuel filter	Replaced by 22480372
			• Bulletin P-18-3-11	QUANT PAC of Maintenance parts
17	22480372	1	Fuel filter	
18	20514654	1	Primary filter	Replaced by 20998367
	20998367	1	Fuel filter	
			• Bulletin P-18-3-11	QUANT PAC of Maintenance parts
19	20771574	1	Bowl	
	21086803	1	Bowl	Metal
20	967344	1	O-ring	
21		1	Fuel pump	
			•	
			•	
22	20909808	1	Fuel pipe	
23	20405277	1	Fuel pipe	
24	941686	3	Hollow screw	
25	946602	1	Nipple	
26	25167	5	Hollow screw	
27	969011	11	Gasket	
28	20521582	1	Fuel pipe	
29	20562394	1	Radiator	
30	190390	1	Banjo nipple	
31	941754	1	Nipple	
32	957019	1	Hexagon nut	
33	20927369	1	Fuel pipe	
34	48634	2	Hollow screw	
35	947281	4	Gasket	
36	20450468	1	Overflow valve	
37	11996	4	Gasket	
38	3885438	1	Fuel pipe	
39	976971	1	O-ring	
40	20539879	1	Fuel pipe	
41	949747	9	Clamp	D=15,9mm
42	984733	9	Flange screw	M8x16mm
43	948211	6	Cable tie	
44	948746	9	Flange screw	M6x16mm
45	984736	2	Flange screw	M8x30mm
46	3888711	1	Bracket	
47		1	Bracket	
48		1	Bracket	
49	990494	1	Wing screw	
50		1	Rubber cloth	
51		1	Press screw	
52	984752	1	Flange screw	
53	976944	1	Washer	
54	990950	1	Flange lock nut	
55	968435	1	Flange screw	



23 Fuel System, Venting SN2016045623-201683881

TAD1641VE, TAD1642VE, TAD1643VE, TAD1660VE, TAD1661VE, TAD1662VE

Ref	Part No.	Qty	Description	Notes
1	21193225	1	Fuel hose	
2	949747	4	Clamp	
3	20852764	2	• Sealing ring	
4	991048	1	• Hollow screw	
5	984733	3	Flange screw	
6	21775773	2	Riser	
7	20899253	6	Sealing ring	
8	21145051	2	Spacer tube	
9	20852765	7	• Sealing ring	
10	20852762	2	Sealing ring	
11	48634	1	Hollow screw	
12	21159427	1	Hollow screw	
13	21184847	2	• Hollow screw	
14	826652	2	Spacer sleeve	
15	984737	1	Flange screw	
16	21187595	1	Fuel hose	SN-2016111523
17	78490149	1	Fuel hose	SN2016111524-
18	949747	2	Clamp	
19	984733	2	Flange screw	
20	78490145	1	Bracket	SN2016111524-
21	21140647	1	Overflow valve	SN2016111524-
22	20883435	4	Sealing ring	
23	984738	1	Flange screw	
24	78490150	1	Fuel hose	SN2016111524-
25	190714	1	Hollow screw	
26	20548012	1	Faucet	
27	20547976	1	Protecting cover	
28	3595373	1	Hollow screw	
29	21140647	1	Overflow valve	
30	976931	1	Gasket	
31	11998	1	Gasket	
32	984736	1	Flange screw	
33	982258	1	Clamp	
34	3545508	1	Retainer	
35	21452472	1	Fuel hose	Replaced by 23267468
	23267468	1	Fuel hose	
36	948211	6	Cable tie	
37	21132217	6	Bracket	
38	984742	6	Flange screw	
39	21168827	1	Fuel filter housing	
			•	
			•	
40	20902698	1	Tandem pump	With servo pump., 16L/min, (20902692, SN-1090227176, Compl, (20482482)
	3885173	1	Fuel pump	Without servo pump., Compl, (3594872)
			•	
41	20885497	1	Retainer	



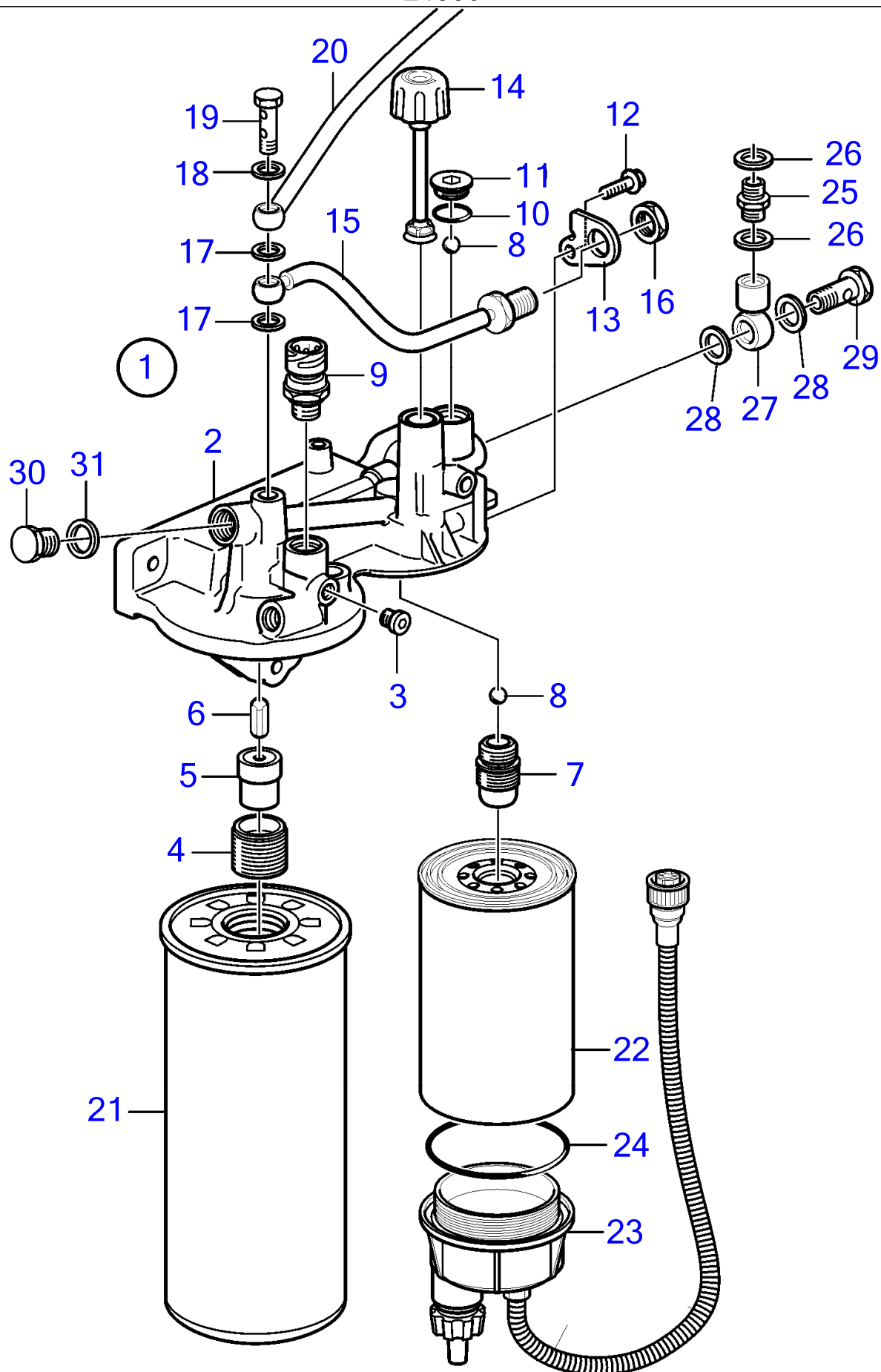
23 Fuel System, Venting SN2016838882-

TAD1641VE, TAD1642VE, TAD1643VE, TAD1660VE, TAD1661VE, TAD1662VE

Ref	Part No.	Qty	Description	Notes
1	21193225	1	Fuel hose	
2	949747	10	Clamp	
3	20852764	10	· Sealing ring	
4	991048	3	· Hollow screw	
5	984733	8	Flange screw	
6	21775773	2	Riser	
7	20899253	4	Sealing ring	
8	21145051	1	Spacer tube	
9	20852765	11	· Sealing ring	
10	20852762	2	Sealing ring	
11	48634	1	Hollow screw	
12	21159427	1	Hollow screw	
13	21184847	1	· Hollow screw	
14	826652	2	Spacer sleeve	
15	984737	1	Flange screw	
16	22366851	1	Fuel hose	SN-2016111523
17	78490149	1	Fuel hose	SN2016111524-
18	949747	2	Clamp	
19	984733	2	Flange screw	
20	78490145	1	Bracket	SN2016111524-
21	21140647	1	Overflow valve	SN2016111524-
22	20883435	4	Sealing ring	
23	984738	1	Flange screw	
24	78490150	1	Fuel hose	SN2016111524-
25	190714	1	Hollow screw	
26	20548012	1	Faucet	
27	20547976	1	Protecting cover	
28	3595373	1	Hollow screw	
29	21140647	1	Overflow valve	
30	976931	1	Gasket	
31	11998	1	Gasket	
32	984736	1	Flange screw	
33	982258	1	Clamp	
34	3545508	1	Retainer	
35	21452472	1	Fuel hose	Replaced by 23267468
	23267468	1	Fuel hose	
36	948211	6	Cable tie	
37	21132217	6	Bracket	
38	984742	6	Flange screw	
39	21168827	1	Fuel filter housing	
			·	
			·	
40	20902698	1	Tandem pump	With servo pump., 16L/min, (20902692, SN-1090227176, Compl, (20482482)
	22677520	1	Fuel pump	Without servo pump., Compl, (3594872)
			·	
41	20885497	1	Retainer	
42	21316273	1	Fuel pipe	
43	3587322	1	Banjo nipple	
44	948746	6	Flange screw	
45	25167	1	Hollow screw	
46	20562394	1	Radiator	
47	20909822	1	Fuel pipe	
48	991046	2	Hollow screw	
49	20909808	1	Fuel pipe	
50	993685	1	Gasket	
51	946602	1	Nipple	
52	993616	1	Banjo nipple	Return, 1/4", For TWD1663GE
	993850	1	Banjo nipple	Inlet, 3/8", For TWD1663GE
53	22370398	1	Bracket	
54	984735	2	Flange screw	
55	984813	2	Flange screw	



Ref	Part No.	Qty	Description	Notes
1	21023287	1	Fuel filter housing	
			.	
			.	
2		1	Fuel pump	
			.	
			.	
3	11411542	1	Fuel pipe	
4	991048	3	Hollow screw	
5	969011	6	Gasket	
6	11411541	1	Fuel pipe	
7	190390	1	Banjo nipple	
8	20852764	2	Sealing ring	
9	941754	1	Nipple	
10	20869259	1	Gasket	
11	11431604	1	Fuel pipe	
12	25167	1	Hollow screw	
13	11431605	1	Fuel pipe	
14	981425	1	Hollow screw	
15	947281	2	Gasket	
16	11447104	1	Fuel pipe	
17	991046	1	• Hollow screw	
18	20852765	2	• Sealing ring	
19	957084	1	• Nipple	
20	956985	1	• Fitting nut	
21	977756	1	• Nipple	
22	11447105	1	Fuel pipe	
23	991046	1	• Hollow screw	
24	20852765	2	• Sealing ring	
25	20754813	1	Overflow valve	
26	11447123	1	Fuel pipe	
27	991046	2	• Hollow screw	
28	20852764	4	• Sealing ring	
29	11447020	1	Fuel pipe	
30	991047	1	• Hollow screw	
31	20852762	2	• Sealing ring	
32	8170877	1	• Nipple	
33	11447106	1	Fuel pipe	
34	957083	1	• Nipple	
35	956984	1	• Fitting nut	
36	976503	1	• Nipple	
37	991048	2	• Hollow screw	
38	20852764	2	• Sealing ring	
39	11447042	1	Fuel pipe	
40	991046	1	Hollow screw	
41	20852764	2	Sealing ring	
42	8148326	1	Nipple	
43	956984	1	Fitting nut	
44	976503	1	Nipple	
45		1	Bracket	
46	20562394	1	Radiator	
47	948746	6	Flange screw	
48	949747	1	Clamp	D=15,9mm
49	984733	4	Flange screw	
50	20852765	2	Sealing ring	
51	984815	2	Flange screw	
52	977599	2	Clamp	
53	984736	1	Flange screw	
54		1	Spacer washer	
55	981664	4	Clamp	
56	984734	2	Flange screw	
57	948211	X	Cable tie	



Ref	Part No.	Qty	Description	Notes
1	21023287	1	Fuel filter housing	
2		1	• Housing	
3	20542751	1	• Plug	Not as spare part. Included only in filter housing assambly 21023287
4	20511511	1	• Nipple	
5	20511534	1	• Sleeve	
6	(20733505)	1	• Valve	Obsolete part
7		1	• Nipple	
8	20528999	2	• Ball	
9	20898038	1	• Pressure sensor	
10	20744692	1	• Cap	
11		1	• • O-ring	
12	20784686	1	• Flange screw	
13		1	• Bracket	
14	(20784020)	1	• Pump shaft	Obsolete part, Not as spare part. Included only in filter housing assambly 21023287
15	40005048	1	Air vent pipe	
16	957018	1	Hexagon nut	
17	20852762	2	Sealing ring	
18	947281	1	Gasket	
19	981425	1	Hollow screw	
20		1	Hose	
21	20976003	1	Fuel filter	Replaced by 22480372
			• Bulletin P-18-3-11	QUANT PAC of Maintenance parts
21	22480372	1	Fuel filter	
22	20998367	1	Fuel filter	
			• Bulletin P-18-3-11	QUANT PAC of Maintenance parts
23	21086803	1	Bowl	
24	967344	1	O-ring	
25	941754	1	Nipple	
26	20869259	2	Gasket	
27	190390	1	Banjo nipple	
28	20852764	2	Sealing ring	
29	25167	1	Hollow screw	
30	960632	1	Plug	
31	11998	1	Gasket	

28228

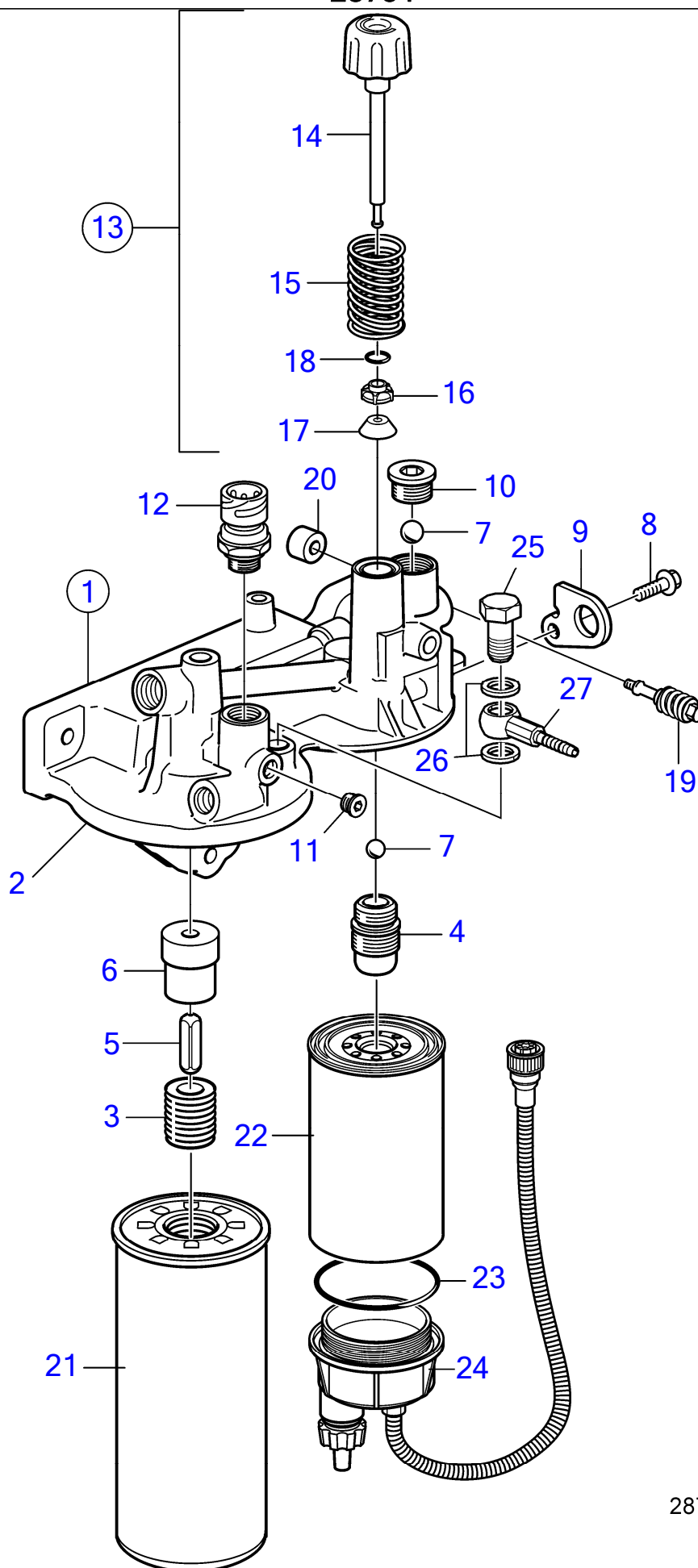


23 Fuel System, Alternative Mounting

TAD1660VE, TAD1661VE, TAD1662VE

Ref	Part No.	Qty	Description	Notes
1			Filter housing	
2	21417371	1	Fuel hose	
3	957020	1	Hexagon nut	
4	991048	10	Hollow screw	
5	20852764	4	Sealing ring	
6	21417375	1	Fuel hose	
7	968126	1	Hollow screw	
8	957021	1	Hexagon nut	
9	946602	1	Nipple	
10	969011	1	Gasket	
11	957019	1	Hexagon nut	
12	21472660	1	Wiring harness	
13	15030907	1	Bracket	
14	21508585	1	Fuel hose	Replaced by 23112305
	23112305	1	Fuel hose	
15	21284489	1	Fuel hose	
16	20852765	12	Sealing ring	
17	984741	1	Flange screw	
18	823494	1	Spacer sleeve	
19	21187595	1	Fuel hose	
	22366851	1	Fuel hose	SN-2016111523
20	78490149	1	Fuel hose	SN2016111524-
21	949747	2	Clamp	
22	984733	2	Flange screw	
23	78490145	1	Bracket	SN2016111524-
24	21140647	1	Overflow valve	SN2016111524-
25	20883435	4	Sealing ring	
26	984738	1	Flange screw	
27	78490150	1	Fuel hose	SN2016111524-
28	190714	1	Hollow screw	
29	984733	7	Flange screw	
30	949747	4	Clamp	
31	21184847	2	Hollow screw	
32	20899253	2	Sealing ring	
33	21686595	2	Spacer tube	
34	3595373	1	Hollow screw	
35	20548012	1	Faucet	
36	20547976	1	Protecting cover	
37	21452472	1	Fuel hose	Replaced by 23267468
	23267468	1	Fuel hose	
38	948211	6	Cable tie	
39	48634	1	Hollow screw	
40	20852762	2	Sealing ring	
41	21159427	1	Hollow screw	
42	21775773	2	Riser	
43	21380682	1	Fuel hose	
44	21508598	1	Fuel hose	
45	991046	2	Hollow screw	
46	21284484	1	Fuel hose	
47	981664	2	Clamp	
48	974582	1	Clamp	Obsolete part
49	21014054	1	Overflow valve	
50	982258	1	Clamp	
51	984735	1	Flange screw	
52	9205207	1	Retainer	
53	11998	1	Gasket	
54	960632	1	Plug	

28734

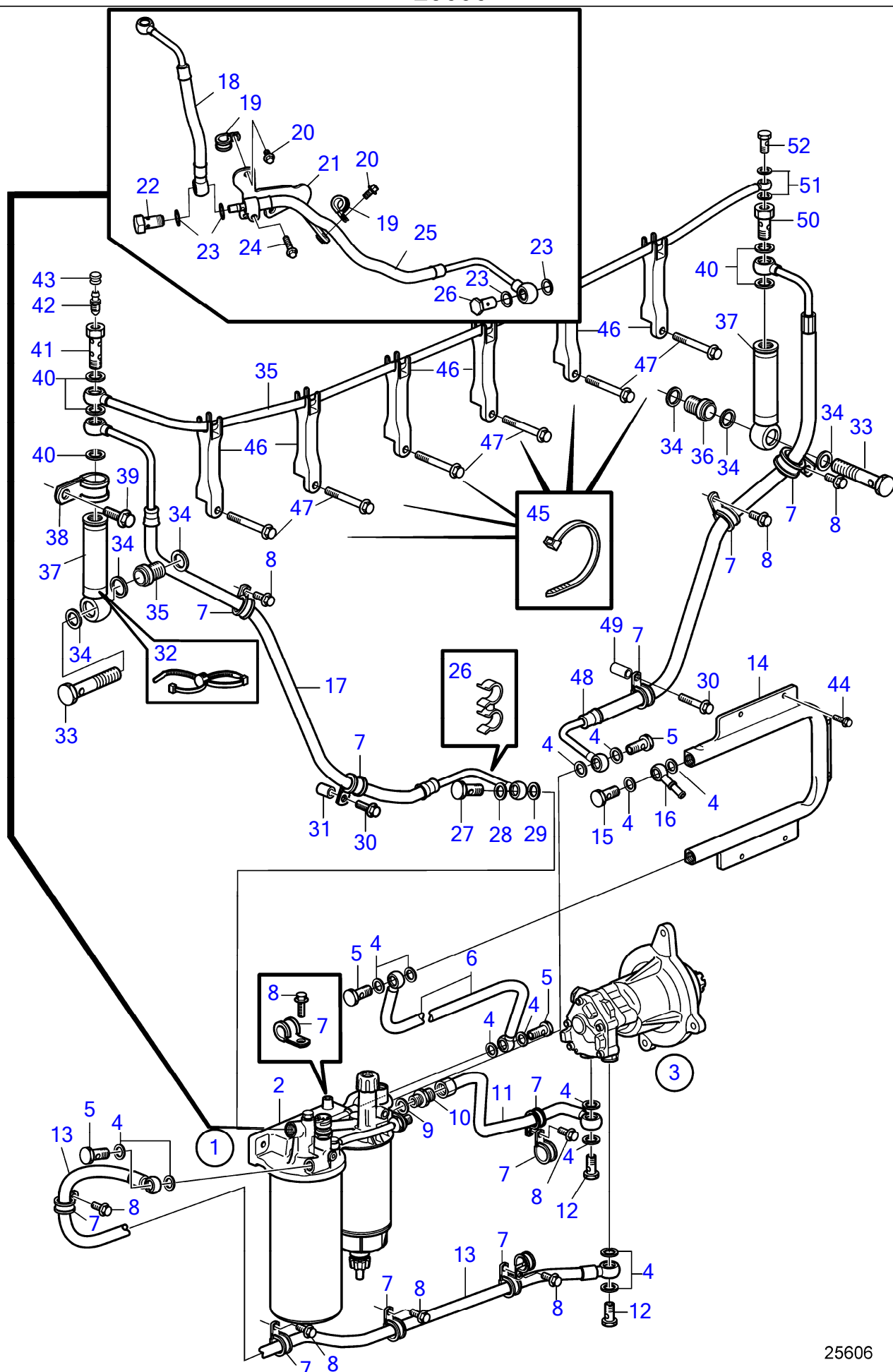


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23 Fuel Filter Housing, Components

TAD1660VE, TAD1661VE, TAD1662VE

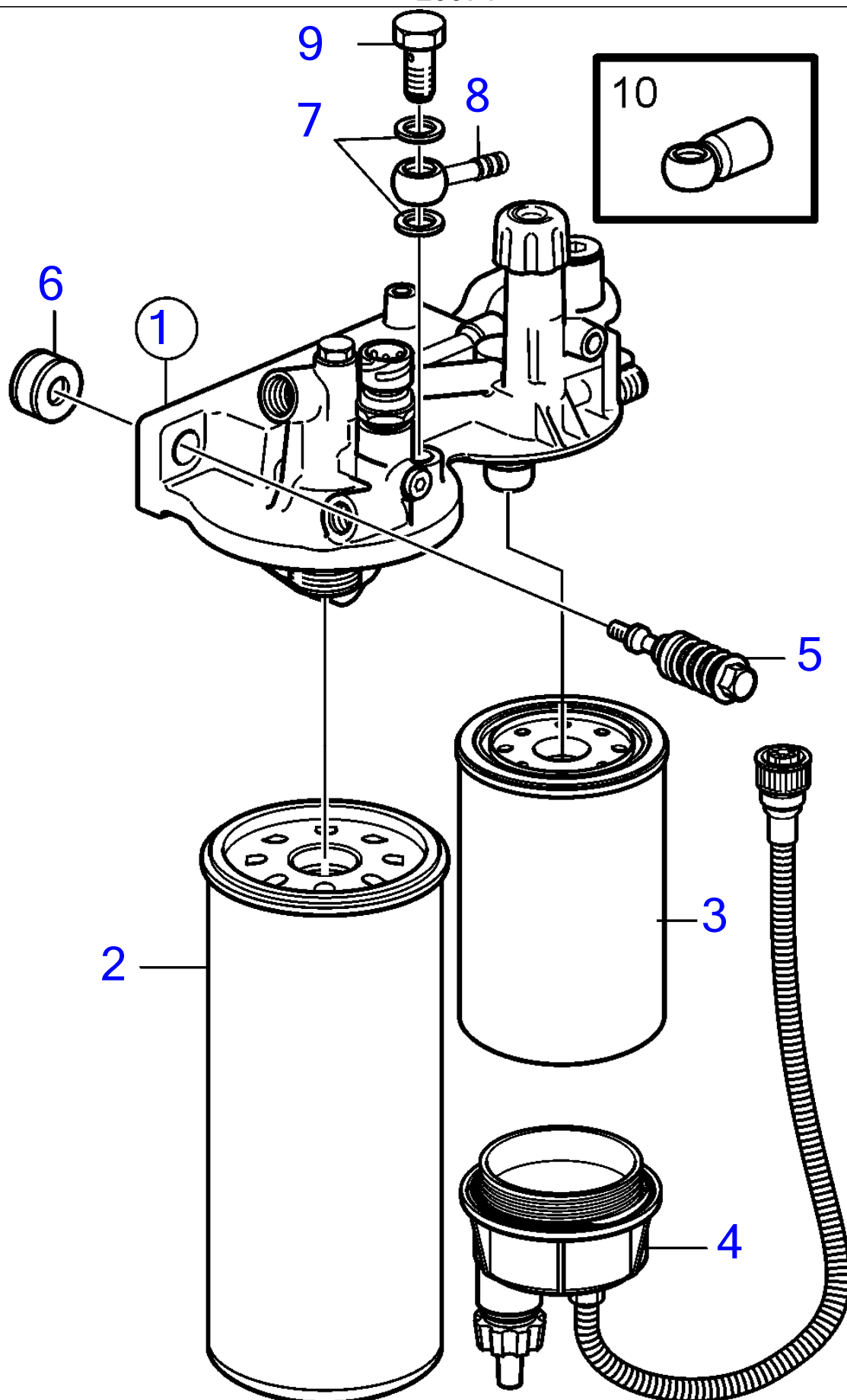
Ref	Part No.	Qty	Description	Notes
1	22035823	1	Fuel filter housing	
2		1	• Filter housing	
3	(21140585)	1	• Nipple	Obsolete part
4		1	• Nipple	
5	(20733505)	1	• Valve	Obsolete part
6		1	• Sleeve	Included in filter housing
7	20528999	1	• Ball	
8	20784686	1	• Flange screw	
9		1	• Bracket	
10	20744692	1	• Cap	
11	20542751	1	• Plug	
12	21634021	1	• Pressure sensor	SN-2016104364
	22899626	1	• Pressure sensor	SN2016104365-
13	22763401	1	• Hand pump	
14	(20784020)	1	• • Pump shaft	Obsolete part
15	(20784027)	1	• • Spring	Obsolete part
16	(20528992)	1	• • Plunger	Obsolete part
17	(20528991)	1	• • Support ring	Obsolete part
18	(20528990)	1	• • O-ring	Obsolete part
19	20739547	3	Flange screw	
20	21091546	3	Rubber element	
21	20976003	1	Fuel filter	Replaced by 22480372
			• Bulletin P-18-3-11	QUANT PAC of Maintenance parts
21	22480372	1	Fuel filter	
22	20998367	1	Fuel filter	
			• Bulletin P-18-3-11	QUANT PAC of Maintenance parts
23	967344	1	O-ring	
24	21333413	1	Bowl	
	21086803	1	Bowl	Metal
25	3594288	1	Valve	
26	20852764	2	Sealing ring	
27	993586	1	Banjo nipple	



23 Fuel System

TAD1660VE, TAD1661VE, TAD1662VE, TAD1640VE-B, TAD1641VE-B, TAD1642VE-B

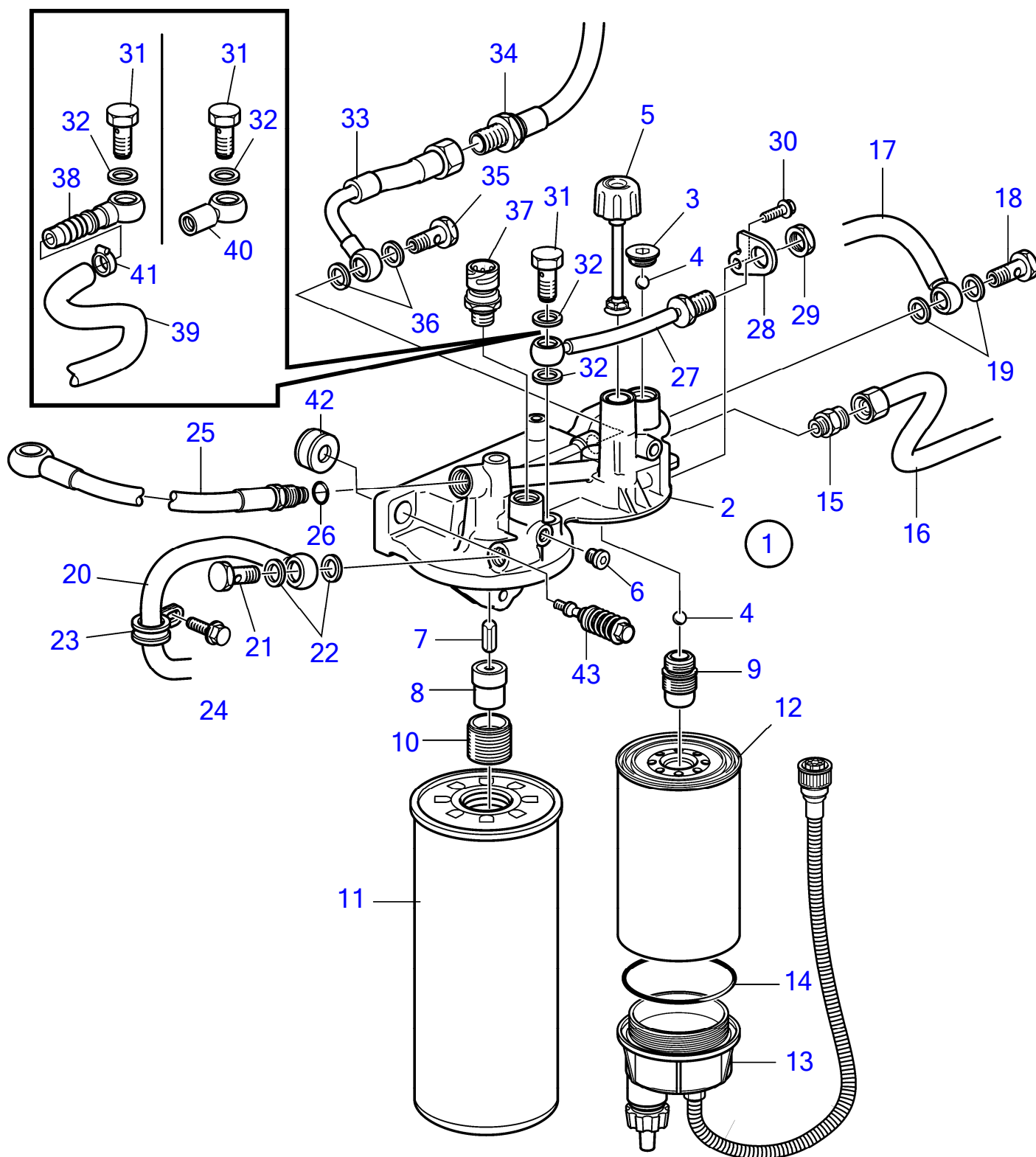
Ref	Part No.	Qty	Description	Notes
1	21168827	1	Fuel filter housing	
2		1	· Housing	
3		1	Fuel pump	
4	20852764	13	Sealing ring	
5	991048	4	Hollow screw	
6	21311219	1	Fuel pipe	
7	949747	12	Clamp	
8	984733	9	Flange screw	
9	993685	1	Gasket	
10	946602	1	Nipple	
11	21311221	1	Fuel pipe	
12	991046	2	Hollow screw	
13	21311223	1	Fuel pipe	
14	20562394	1	Radiator	
15	25167	1	Hollow screw	
16	3587322	1	Banjo nipple	
17	21187595	1	Fuel hose	SN-2016111523
18	78490149	1	Fuel hose	SN2016111524-
19	949747	2	Clamp	
20	984733	2	Flange screw	
21	78490145	1	Bracket	SN2016111524-
22	21140647	1	Overflow valve	SN2016111524-
23	20883435	4	Sealing ring	
24	984738	1	Flange screw	
25	78490150	1	Fuel hose	SN2016111524-
26	190714	1	Hollow screw	
27	21140647	1	Overflow valve	
28	976931	1	Gasket	
29	11998	1	Gasket	
30	984737	2	Flange screw	
31	826652	1	Spacer sleeve	
32	20885497	1	Retainer	
33	21184847	2	Hollow screw	
34	20899253	6	Sealing ring	
35	21452472	1	Fuel hose	Replaced by 23267468
	23267468	1	Fuel hose	
36	21145051	2	Spacer tube	
37	21775773	2	Riser	
38	982258	1	Clamp	
39	984736	1	Flange screw	
40	20852765	5	Sealing ring	
41	3595373	1	Hollow screw	
42	20548012	1	Faucet	
43	20547976	1	Protecting cover	
44	60113395	1	Flange screw	
45	948211	6	Cable tie	
46	21132217	6	Bracket	
47	984742	6	Flange screw	
48	21193225	1	Fuel hose	
49	826652	1	Spacer sleeve	
50	21159427	1	Hollow screw	
51	20852762	2	Sealing ring	
52	48634	1	Hollow screw	



23 Fuel Filter, Components SN2016045623-

TAD1641VE, TAD1642VE, TAD1643VE

Ref	Part No.	Qty	Description	Notes
1	21168827	1	Fuel filter housing	Replaced by 22035823
	22035823	1	Fuel filter housing	
2	20976003	1	Fuel filter	Replaced by 22480372
			• Bulletin P-18-3-11	QUANT PAC of Maintenance parts
2	22480372	1	Fuel filter	
3	20998367	1	Fuel filter	
			• Bulletin P-18-3-11	QUANT PAC of Maintenance parts
4	20771574	1	Bowl	
	21333413	1	Bowl	
5	20739547	3	Flange screw	
6	21091546	3	Rubber element	
7	20852764	2	Sealing ring	
8	993586	1	Banjo nipple	
9	3594288	1	Valve	

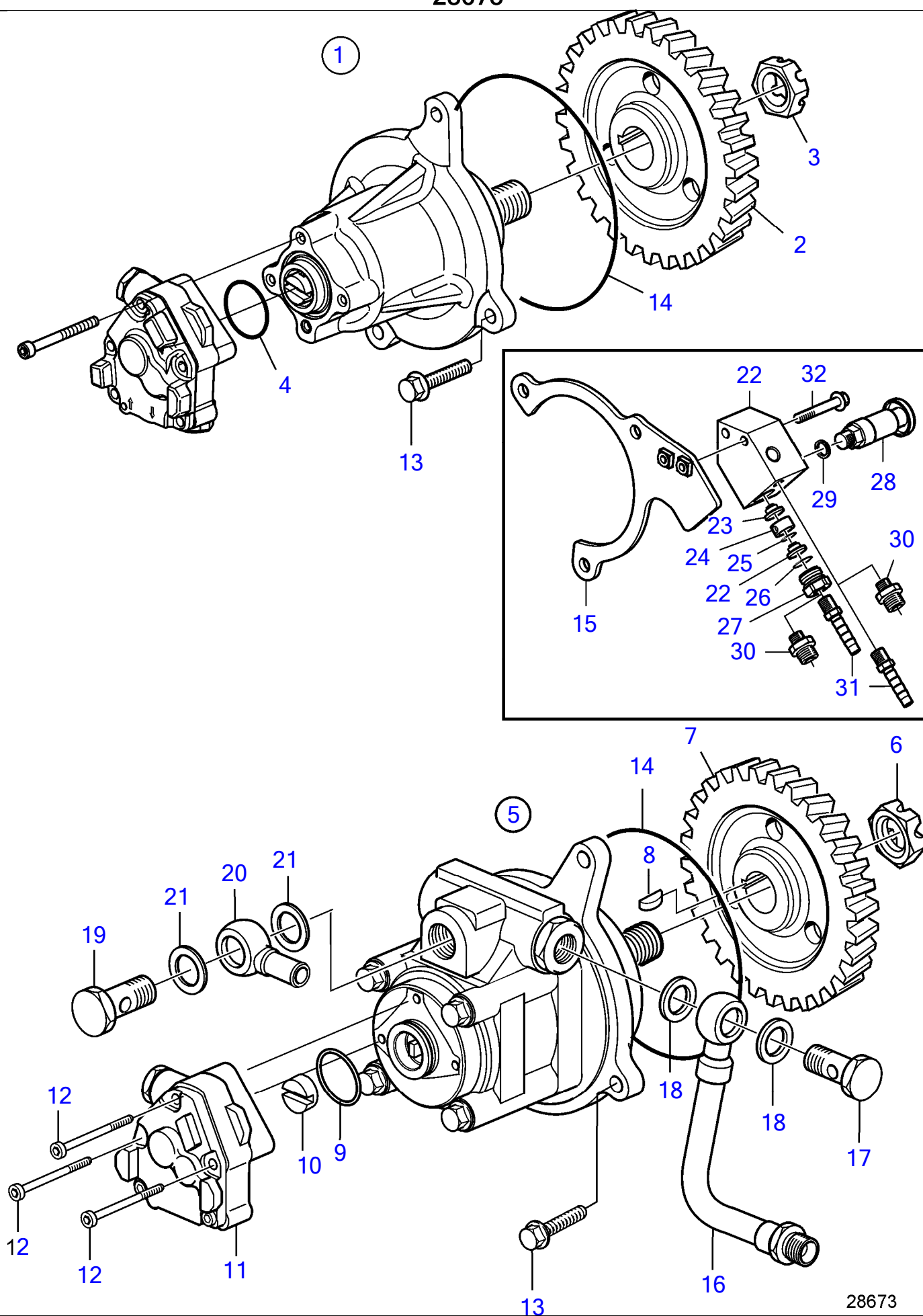


25375

23 Fuel Filter, Components SN-2016045622

TAD1641VE, TAD1642VE, TAD1643VE

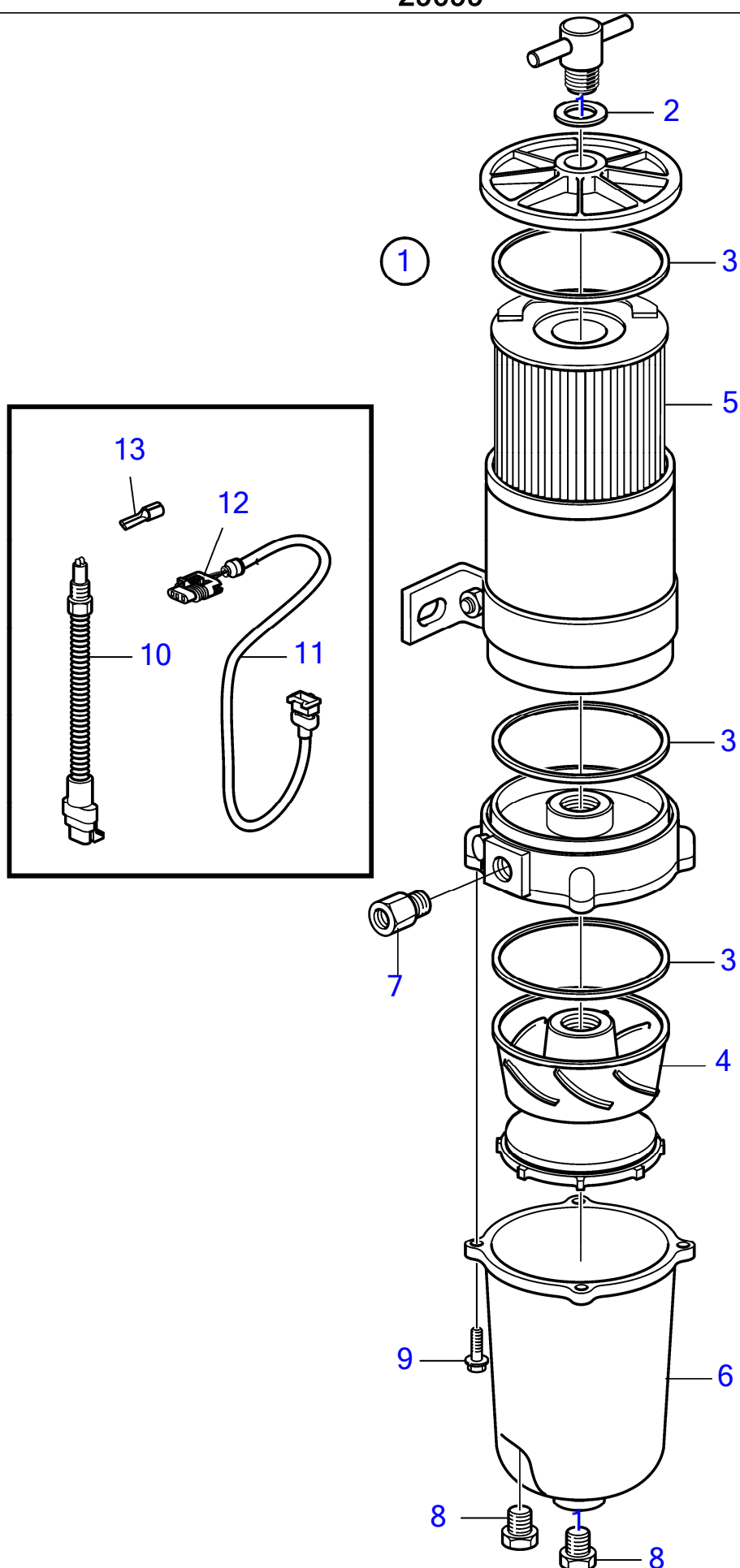
Ref	Part No.	Qty	Description	Notes
1	3849373	1	Fuel filter housing	Replaced by filter housing 3848884, 3 pcs rubber element 21091546, 3 pcs screw 2
	3848884	1	Fuel filter housing	Replaced by 21168827 and po.33,34 replased by hose 21193225
	21168827	1	Fuel filter housing	
2		1	• Fuel filter housing	Not as sparepart. Included only in filter housing assy 3848884
3	20744692	1	• • Cap	
4	20528999	2	• • Ball	
5	(20784020)	1	• • Pump shaft	Obsolete part, Not as sparepart. Included only in filter housing assy 3848884
6	20542751	1	• • Plug	Not as sparepart. Included only in filter housing assy 3848884
7	(20733505)	1	• • Valve	Obsolete part, Not as sparepart. Included only in filter housing assy 3848884
8	20511534	1	• • Sleeve	Not as sparepart. Included only in filter housing assy 3848884
9		1	• • Nipple	Not as sparepart. Included only in filter housing assy 3848884
10	20511511	1	• • Nipple	Not as sparepart. Included only in filter housing assy 3848884
11	20976003	1	Fuel filter	Replaced by 22480372 (20430751)
			• Bulletin P-18-3-11	QUANT PAC of Maintenance parts
11	22480372	1	Fuel filter	
12	20998367	1	Fuel filter	(20514654)
			• Bulletin P-18-3-11	QUANT PAC of Maintenance parts
13	20771574	1	Bowl	
	21086803	1	Bowl	Metal
14	967344	1	O-ring	
15	946602	1	Nipple	
16	20909808	1	Fuel pipe	
17	20909744	1	Fuel pipe	
18	25167	1	• Hollow screw	
19	969011	2	• Gasket	
20	20909822	1	Fuel pipe	
21	991046	1	• Hollow screw	
22	20852765	2	• Sealing ring	
23	949747	1	Clamp	
24	984735	1	Flange screw	
25	3888407	1	Fuel hose	
26	976971	1	• O-ring	
27	3888904	1	Air vent pipe	
28		1	Bracket	
29	957018	1	Hexagon nut	
30	20784686	1	Flange screw	
31	3594288	1	Valve	
32	20852764	2	Sealing ring	
33	3888420	1	Fuel hose	
34	3849938	1	Fuel hose	
35	991048	1	Hollow screw	
36	20852764	2	Sealing ring	
37	20898038	1	Pressure sensor	
38	993586	1	Banjo nipple	
39	861057	X	Fuel hose	3/8
			• Bulletin P-23-4-4	Fuel Hose P/N 861057
40	993616	1	Banjo nipple	
41	993978	1	Hose clamp	
42	21091546	3	Rubber element	
43	20739547	3	Flange screw	



23 Fuel Pump

TAD1641VE, TAD1642VE, TAD1643VE, TAD1650VE, TAD1660VE, TAD1661VE, TAD1662VE

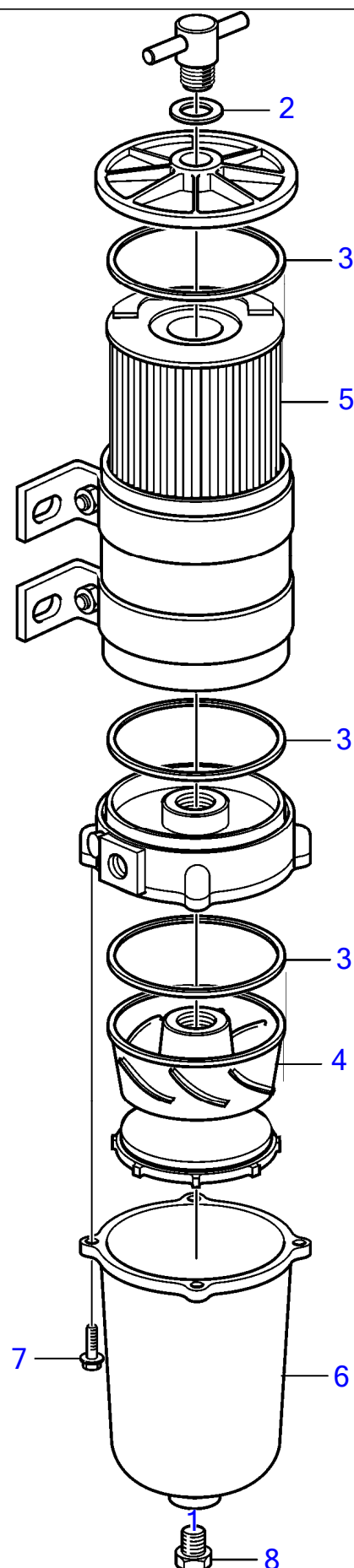
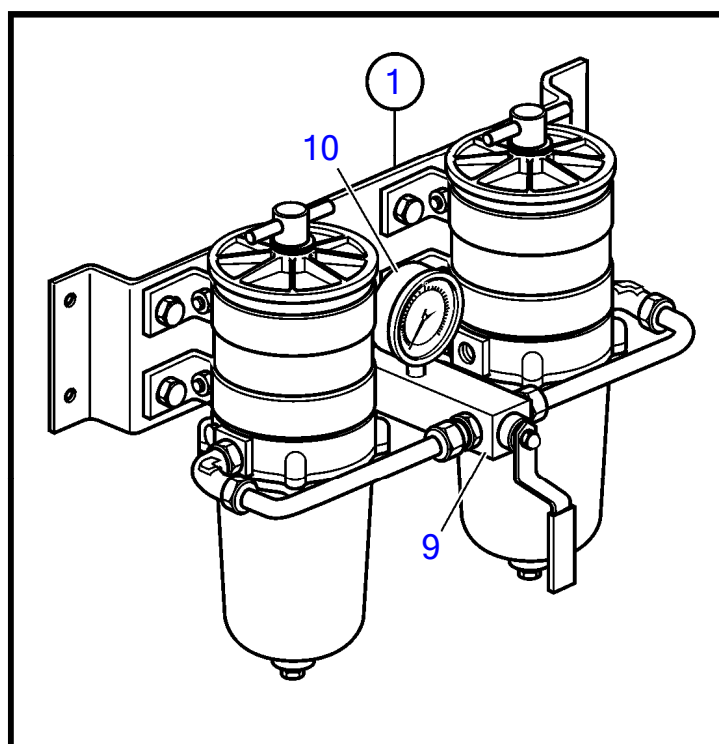
Ref	Part No.	Qty	Description	Notes
1	22677520	1	Fuel pump	Without servo pump., Compl, (3594872)
2	8131292	1	• Gear	
3	20367040	1	• Castle nut	
4	948610	1	• O-ring	
5	20902698	1	Tandem pump	With servo pump, 25L/min, Compl, (20482482)
6	20367040	1	• Castle nut	
7	8131292	1	• Gear	
8	1505357	1	• Woodruff key	
9	85103703	1	• O-ring	
10	85103779	1	• Constant velocity jo	
11	20997341	1	• Fuel pump	(85103778)
12	85103780	3	• Hex. socket screw	
13	994386	1	Flange screw	L=55mm
	984736	2	Flange screw	L=30mm
14	977030	1	O-ring	
15	21559978	1	Bracket	For engine without heat exchanger
16	21406534	1	Servo pipe	
17	941686	1	Hollow screw	
18	982724	2	Gasket	
19	191620	1	Hollow screw	
20	1598185	1	Banjo nipple	
21	982508	2	Gasket	Obsolete part
22	3889704	1	Housing	
23	244834	2	• Check valve	
24	8148331	1	• Spacer sleeve	
25	976971	1	• O-ring	
26	1526474	1	• O-ring	
27	21168724	1	• Nipple	
28	3837393	1	Hand pump	
29	947622	1	Gasket	
30	977677	2	Nipple	
31	3825000	2	Hose nipple	
32	994386	2	Flange screw	



23 Fuel Cleaner/ Water Separator

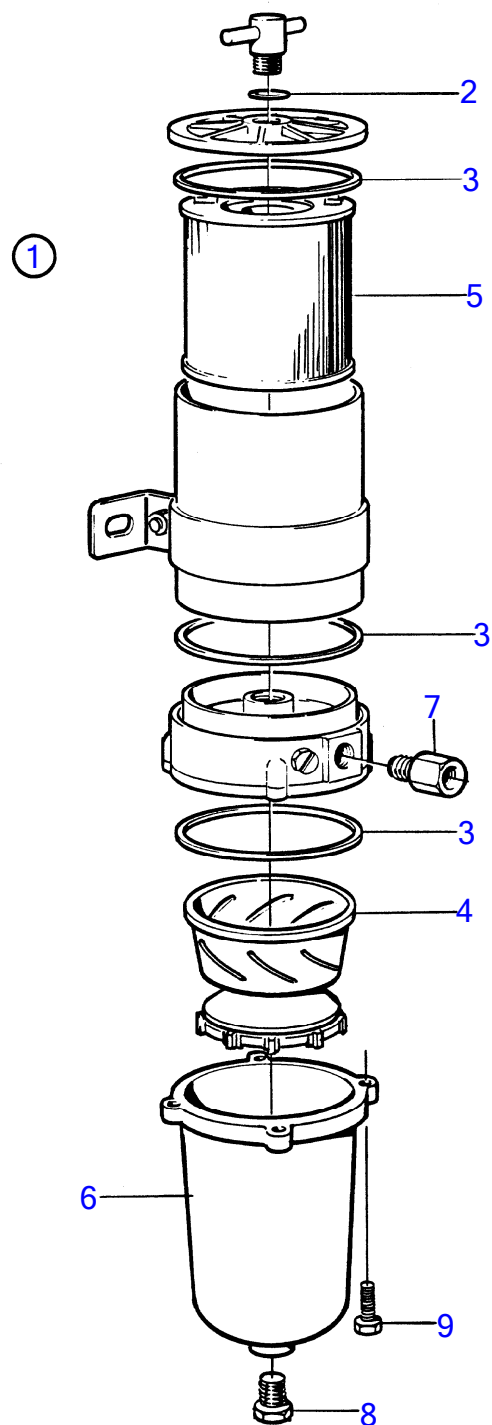
TAD1641VE, TAD1642VE, TAD1643VE, TAD1650VE, TAD1660VE, TAD1661VE, TAD1662VE,
TAD1640VE-B, TAD1641VE-B, TAD1642VE-B, TAD1660-62VE, TAD1662VE EU5

Ref	Part No.	Qty	Description	Notes
1	877768	1	Fuel filter	
2	838505	1	• O-ring	
3	846719	3	• Gasket	
4	3825028	1	• Turbine	
5	3838852	1	• Fuel filter insert	(3825027) 10 micron
	889419	1	• Filter insert	30 micron
6	3838851	1	• Bowl	Metal bowl., (848293)
7	(846620)	2	• Nipple	Obsolete part
8	952075	1	• Plug	
9	940094	4	• Hexagon screw	
10	3885070	1	Sensor	
11	21415866	1	Extension cable	L=3m
	21415883	1	Extension cable	L=5m
12	874283	1	Receptacle housing	
13	874284	3	Cable terminal	



23 Fuel Cleaner / Water Separator, Twin. Classifiable Fuel System. Later ProductionTAD1641VE, TAD1642VE, TAD1643VE, TAD1650VE, TAD1660VE, TAD1661VE, TAD1662VE,
TAD1640VE-B, TAD1641VE-B, TAD1642VE-B, TAD1660-62VE, TAD1662VE EU5

Ref	Part No.	Qty	Description	Notes
1	877770	1	Fuel filter	Late type
2	838505	2	• O-ring	
3	846719	6	• Gasket	
4		2	• Turbine	
5	3838852	2	• Fuel filter insert	
6	3838851	2	• Bowl	
7	940094	8	• Hexagon screw	
8	952075	2	• Plug	
9	3827300	1	• Block	
10	3827299	1	• Manometer	

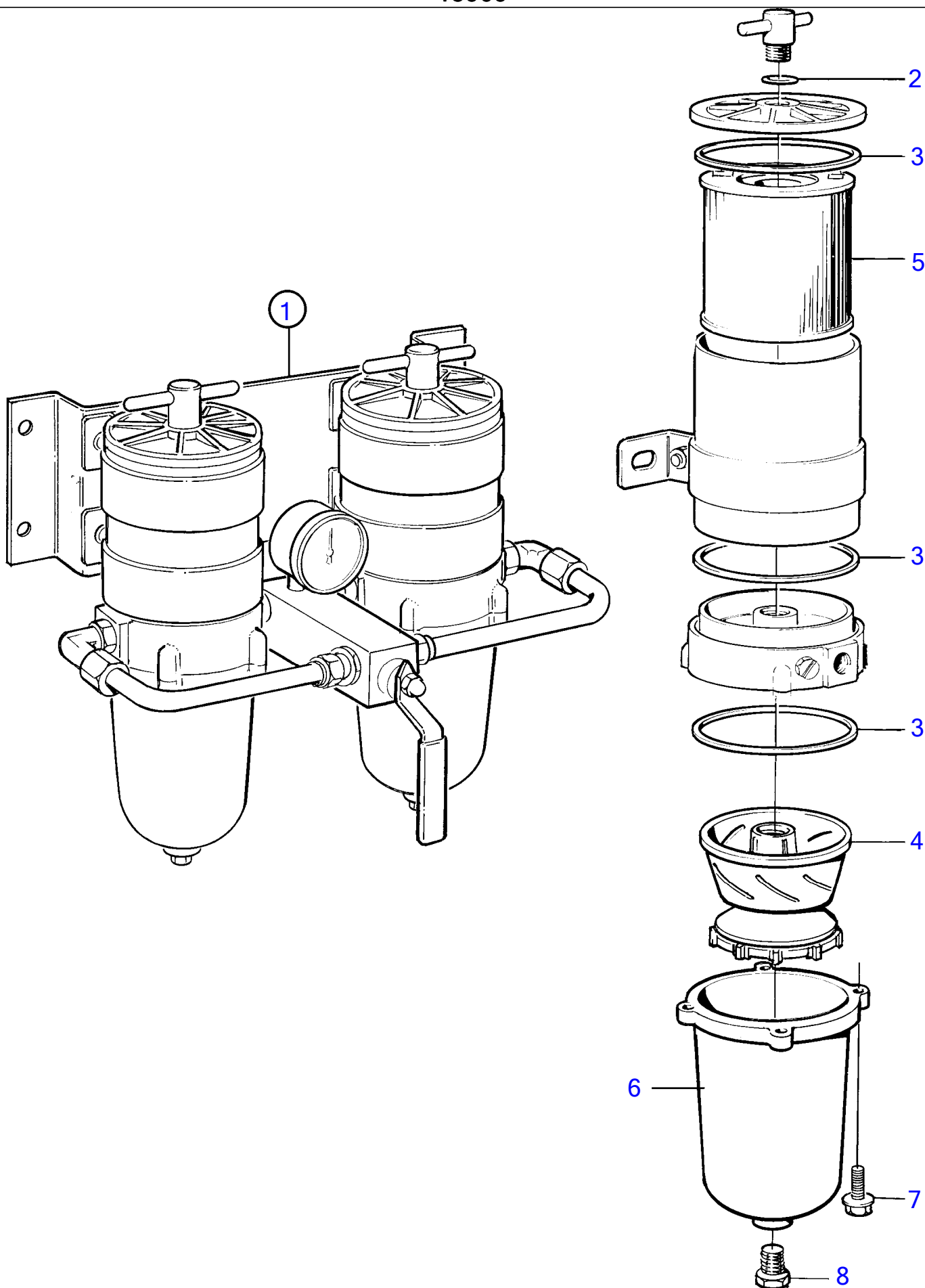


15385

23 Fuel Cleaner/ Water Separator, Single. Classifiable Fuel System

TAD1641VE, TAD1642VE, TAD1643VE, TAD1650VE, TAD1660VE, TAD1661VE, TAD1662VE,
TAD1640VE-B, TAD1641VE-B, TAD1642VE-B, TAD1660-62VE, TAD1662VE EU5

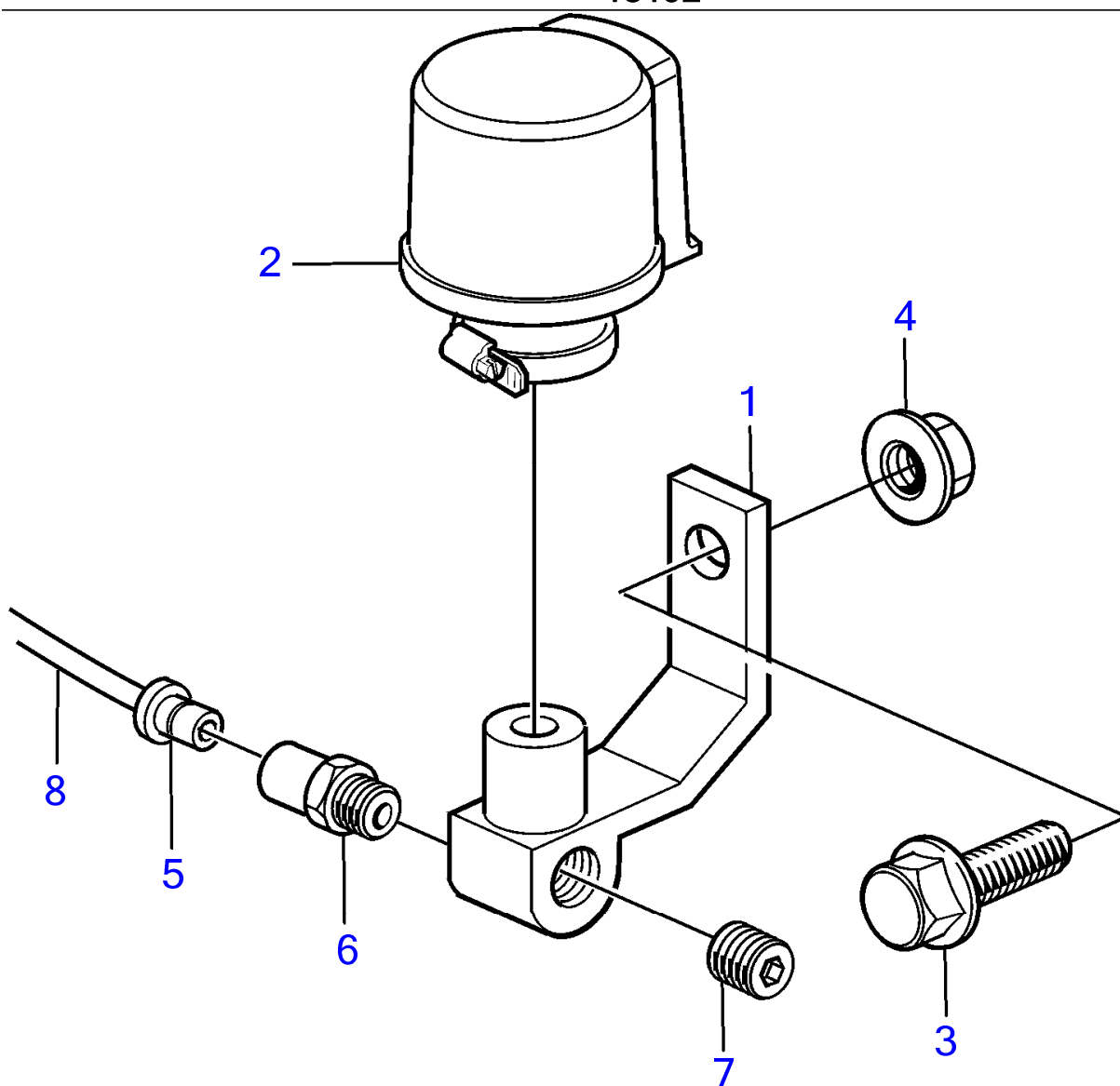
Ref	Part No.	Qty	Description	Notes
1	3825018	1	Fuel filter	Repl by 877768
			• Bulletin 50-11A	Fuel Filters / Water Separators
1	877768	1	Fuel filter	
2	838506	1	• O-ring	
3	846719	3	• Gasket	
4	3825028	1	• Turbine	
5	3838852	1	• Fuel filter insert	(3825027) 10 micron
6	3838851	1	• Bowl	Metal bowl., (848293)
7	(846620)	2	• Nipple	Obsolete part
8	952075	1	• Plug	
9	940094	4	• Hexagon screw	



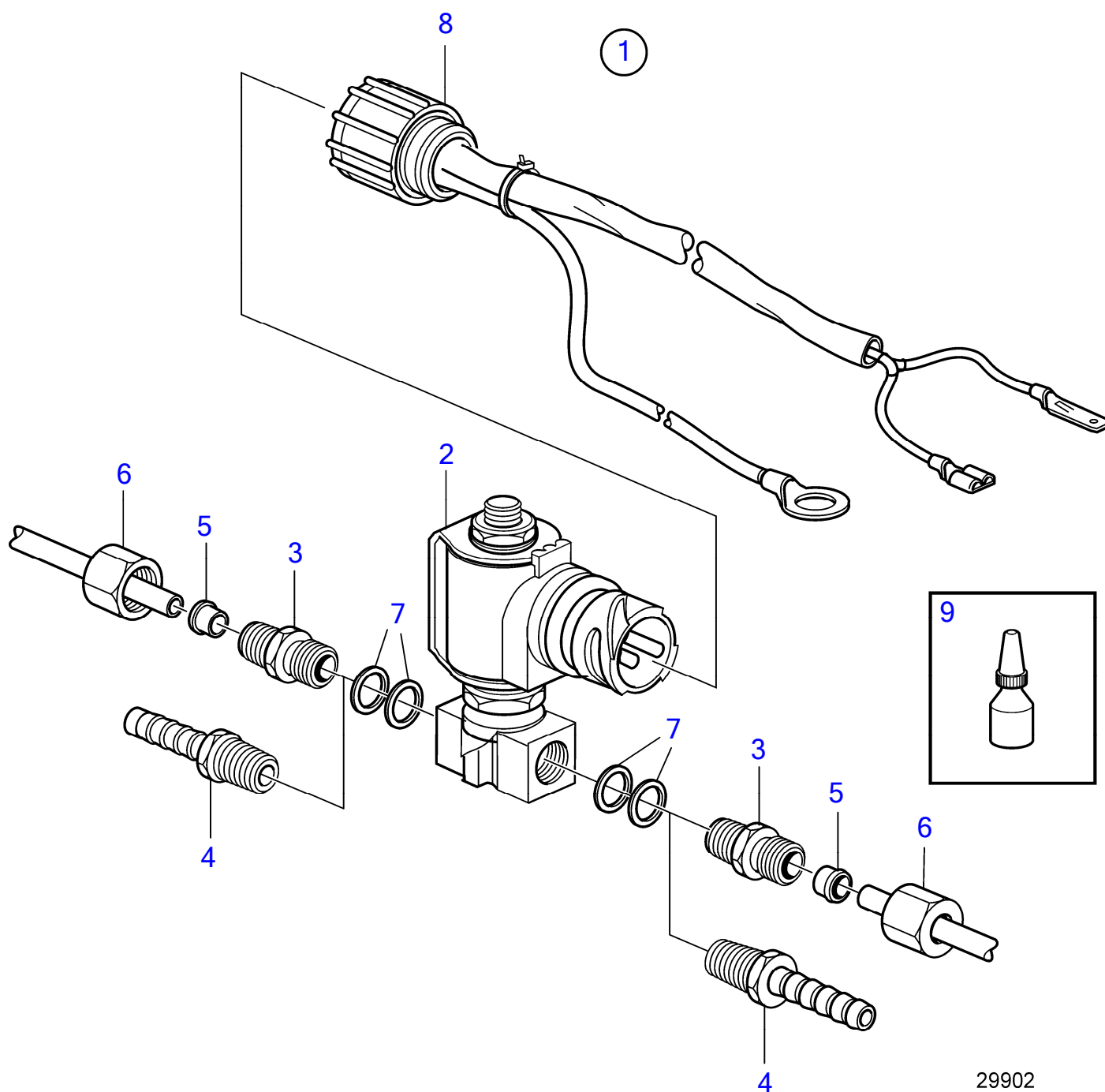
23 Fuel Cleaner/ Water Separator, Twin.

TAD1641VE, TAD1642VE, TAD1643VE

Ref	Part No.	Qty	Description	Notes
1	3825022	1	Fuel filter	Repl by 877770
			• Bulletin 50-11A	Fuel Filters / Water Separators
1	877770	1	Fuel filter	
2	838505	2	• O-ring	
3	846719	6	• Gasket	
4	3825028	2	• Turbine	
5	3838852	2	• Fuel filter insert	(3825027) 10 micron
6	3838851	2	• Bowl	Metal bowl., (848293)
7	940094	8	• Hexagon screw	
8	952075	2	• Plug	



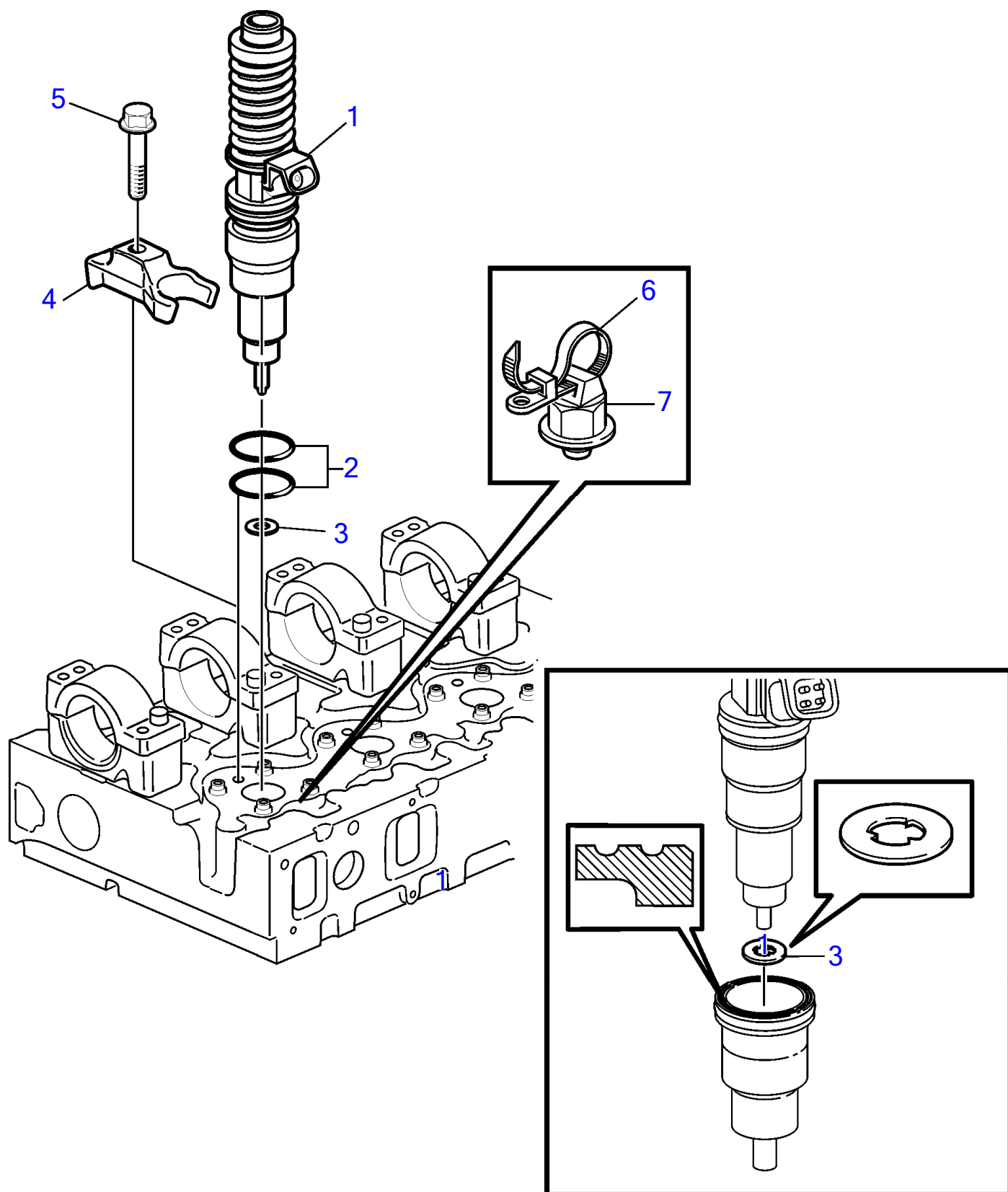
Ref	Part No.	Qty	Description	Notes
1	3173995	1	Manifold	
2	3944785	1	Air cleaner	
3	966360	1	Flange screw	
4	979231	1	Flange nut	
5	968695	1	Nipple	
6	976445	1	Nipple	
7	996110	2	Plug	
8	980832	X	Tube	L=2000mm



23 Fuel Valve

TAD1641VE, TAD1642VE, TAD1643VE, TAD1650VE, TAD1660VE, TAD1661VE, TAD1662VE,
TAD1640VE-B, TAD1641VE-B, TAD1642VE-B, TAD1660-62VE, TAD1662VE EU5

Ref	Part No.	Qty	Description	Notes
1		1		
2	22463597	1	• Solenoid valve	
3	944524	2	• Nipple	For Fuel pipe,Belongs to valve 70351592
	941754	2	• Nipple	For fuel hose,Belongs to valve 22463597
4	3825000	2	• Hose nipple	For Fuel Pipe,Belongs to valve 70351592
	969305	2	• Hose nipple	For fuel hose,Belongs to valve 22463597
	20405767	2	• Hose nipple	Belongs to 23469615, 2018-09-26
5	980781	2	• Ferrule	
6	956983	2	• Fitting nut	
7	969011	4	• Gasket	
8	3841897	1	• Wiring harness	
9	85145750	1	• Locking fluid	
	1161053	1	• Locking fluid	Replaced by, 85145750

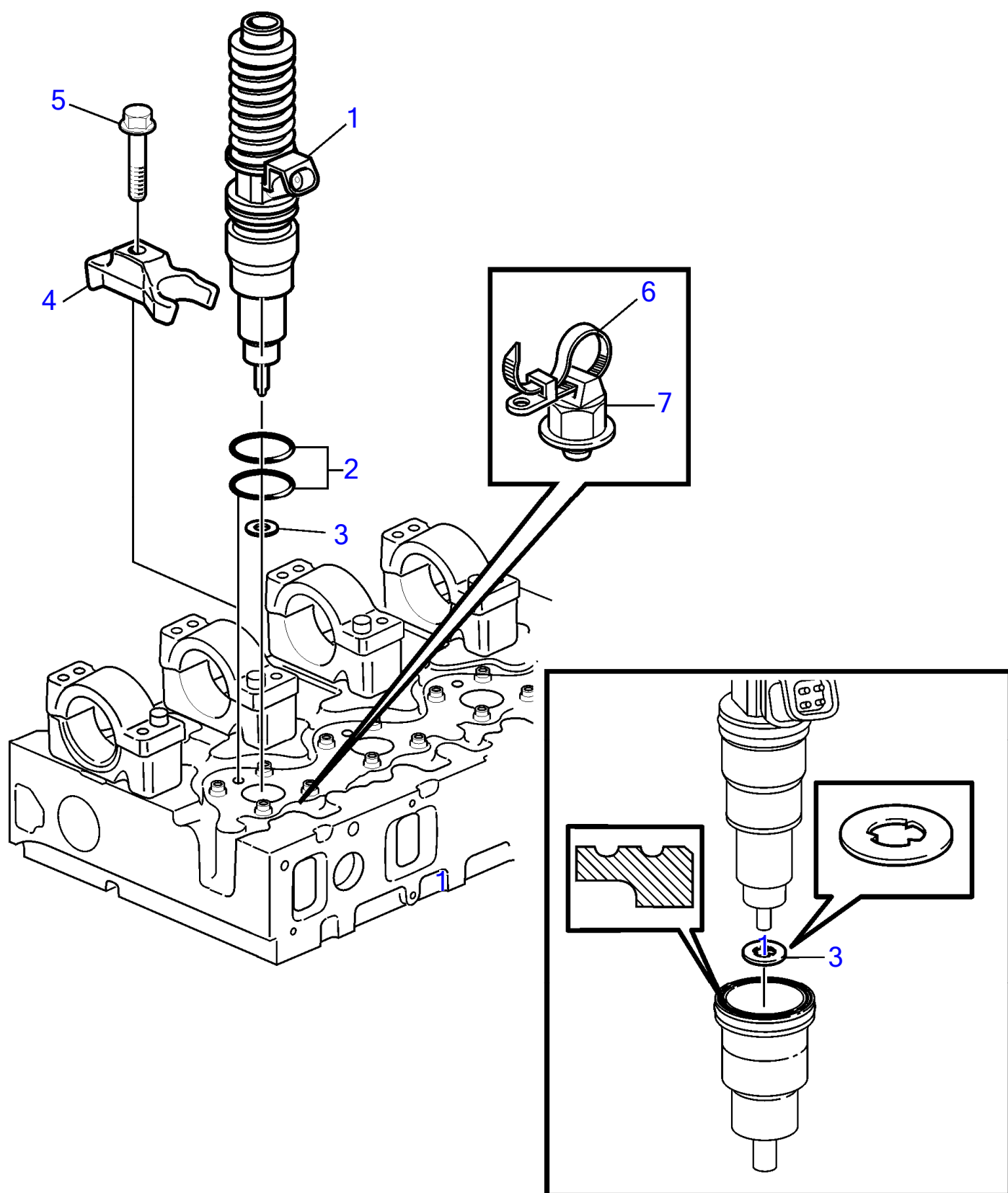


24998

23 Unit Injector

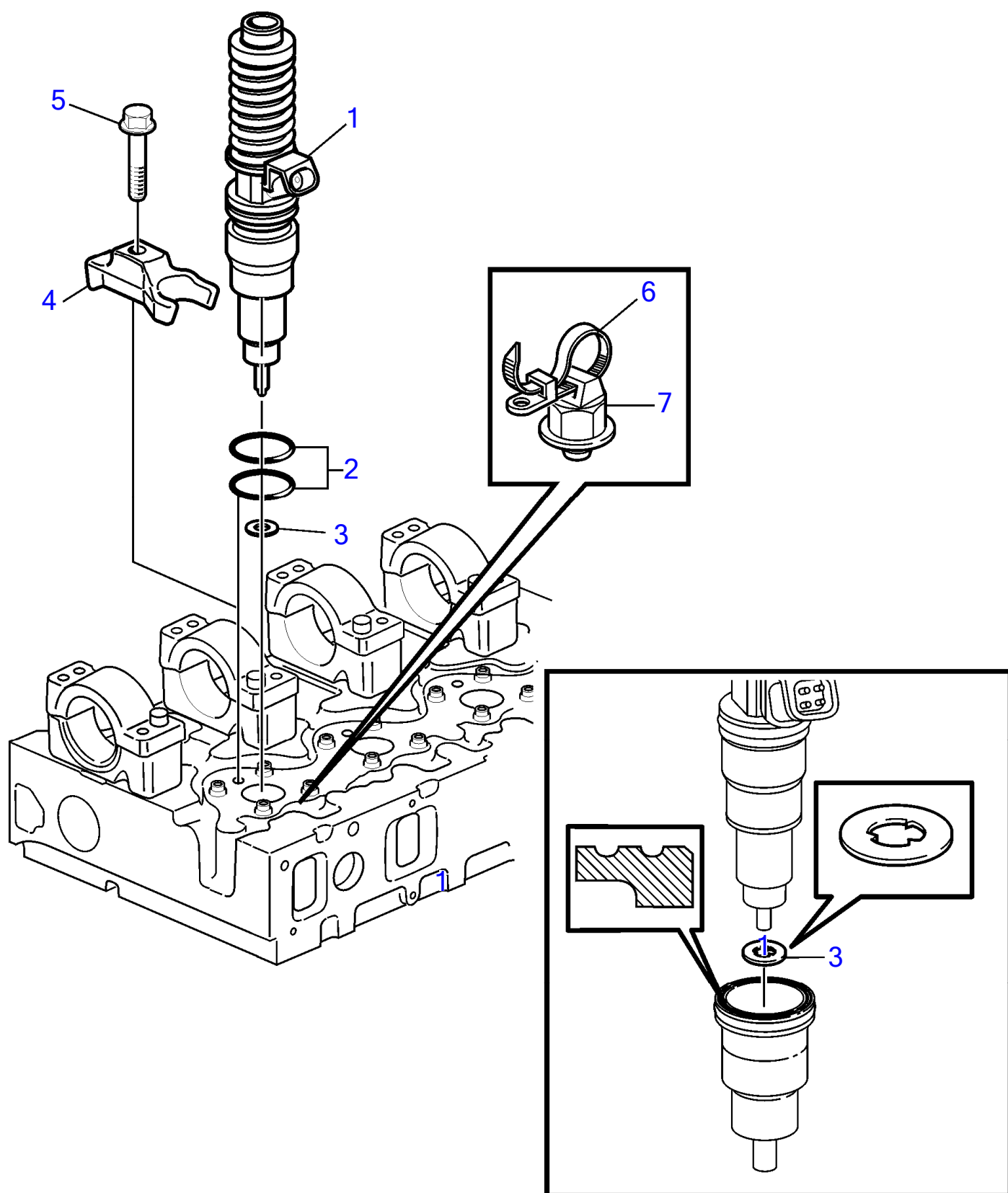
TAD1641VE, TAD1642VE

Ref	Part No.	Qty	Description	Notes
1	3803638	6	Unit injector	
	889481	6	Unit injector	
	3803638	6	Unit injector, exch	
2	276948	1	• O-ring kit	(276935)
3	21261987	1	Washer	SN2016021776-
			• Bulletin P-21-1-2	New Copper Sleeves to the Unit Injectors
4	21425162	6	Yoke	
5	21344774	6	Flange screw	
6	983472	1	Cable tie	For cable to unit injectors.
7	8131393	1	Retainer	For cable to unit injectors.



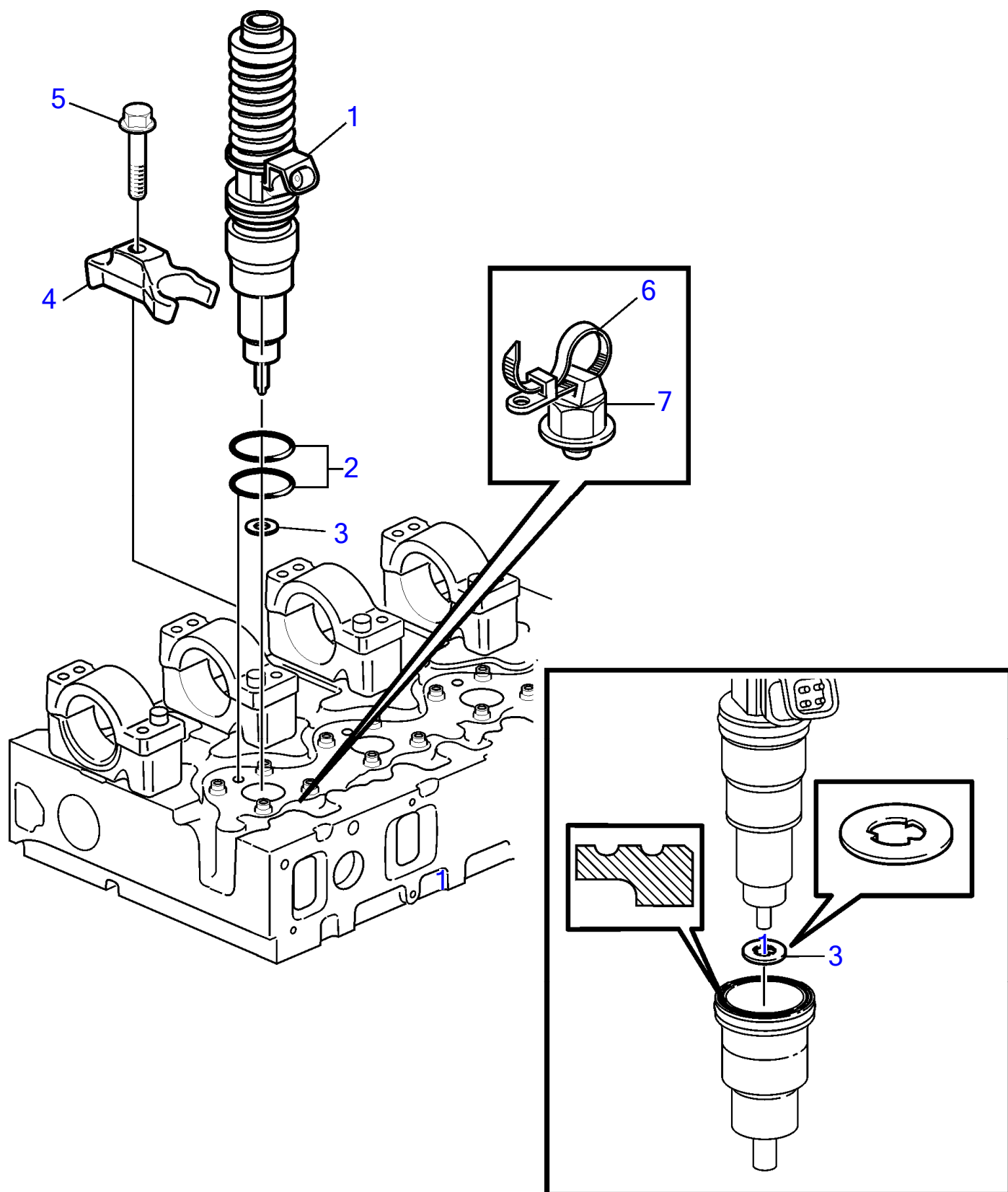
24998

Ref	Part No.	Qty	Description	Notes
1	3803637	6	Unit injector	
	3829087	6	Unit injector	
	3803637	6	Unit injector, exch	
2	276948	1	• O-ring kit	(276935)
3	21261987	1	Washer	SN2016021776-
			• Bulletin P-21-1-2	New Copper Sleeves to the Unit Injectors
4	21168206	6	Yoke	
5	21344774	6	Flange screw	
6	983472	1	Cable tie	For cable to unit injectors.
7	8131393	1	Retainer	For cable to unit injectors.



24998

Ref	Part No.	Qty	Description	Notes
1	3801263	6	Unit injector	
	20929906	6	Unit injector	
	3801263	6	Unit injector, exch	
2	276948	1	• O-ring kit	(276935)
3	21261987	1	• Washer	SN2016021776-
			• Bulletin P-21-1-2	New Copper Sleeves to the Unit Injectors
4	21168206	6	Yoke	
5	21344774	6	Flange screw	
6	983472	1	Cable tie	For cable to unit injectors.
7	8131393	1	Retainer	For cable to unit injectors.

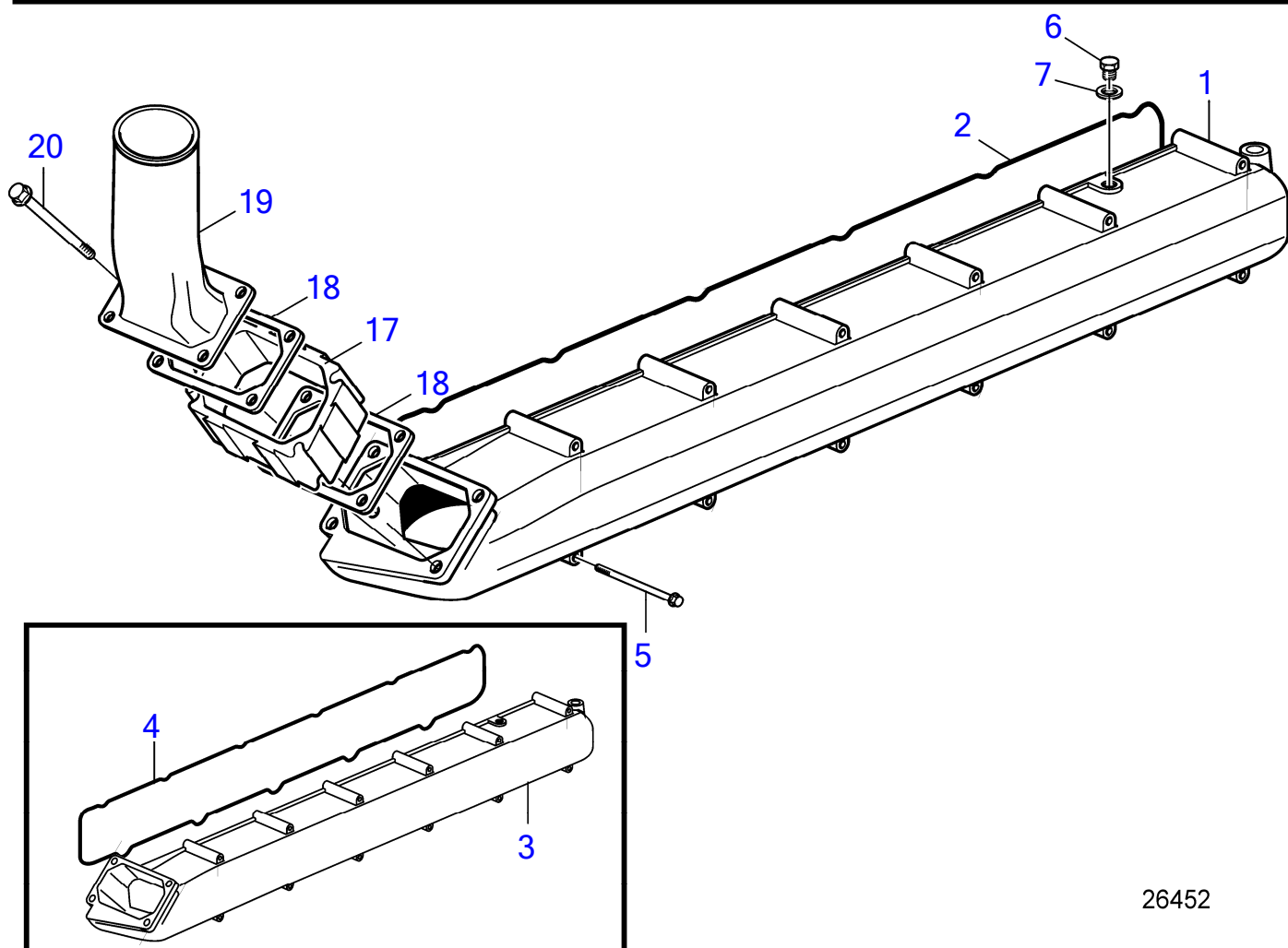
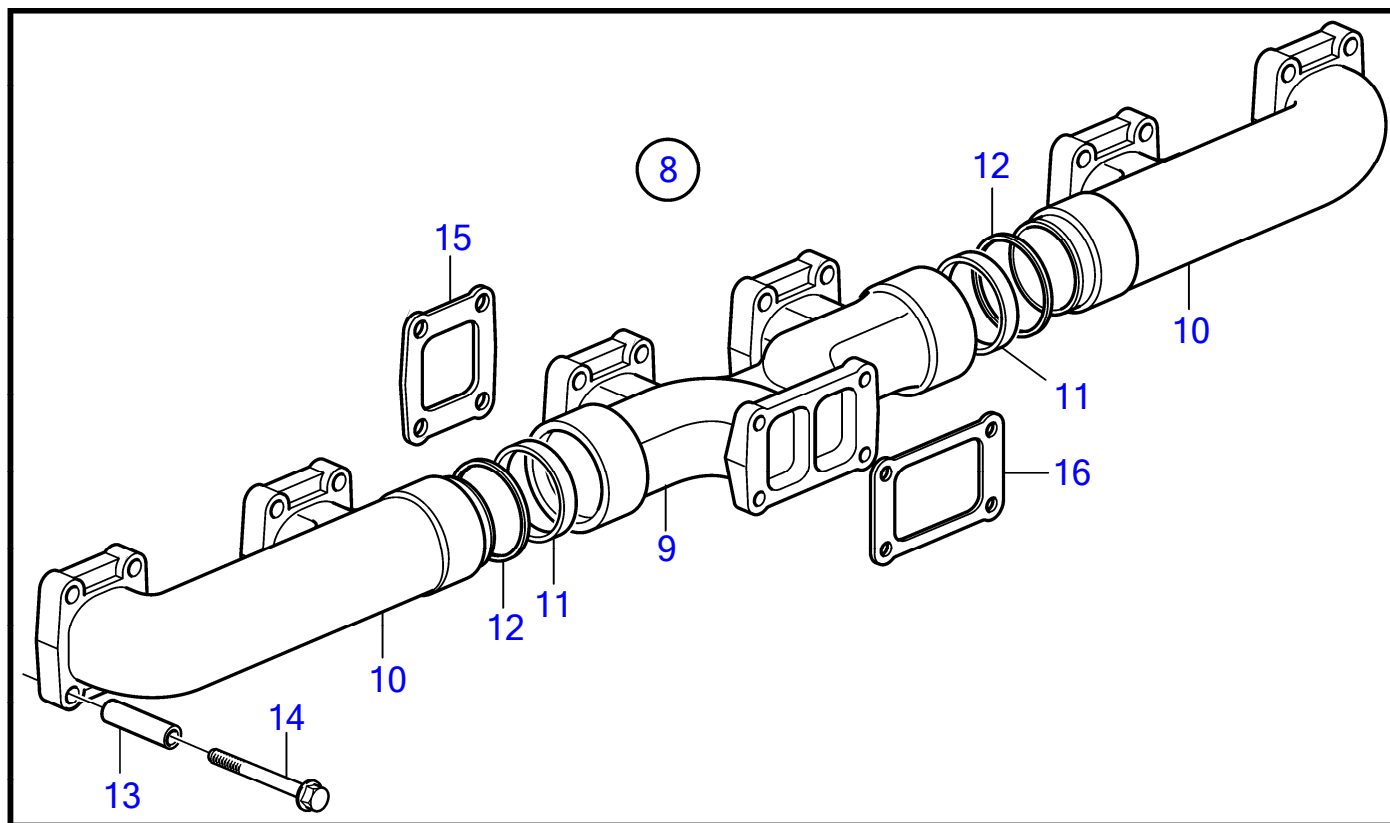


24998

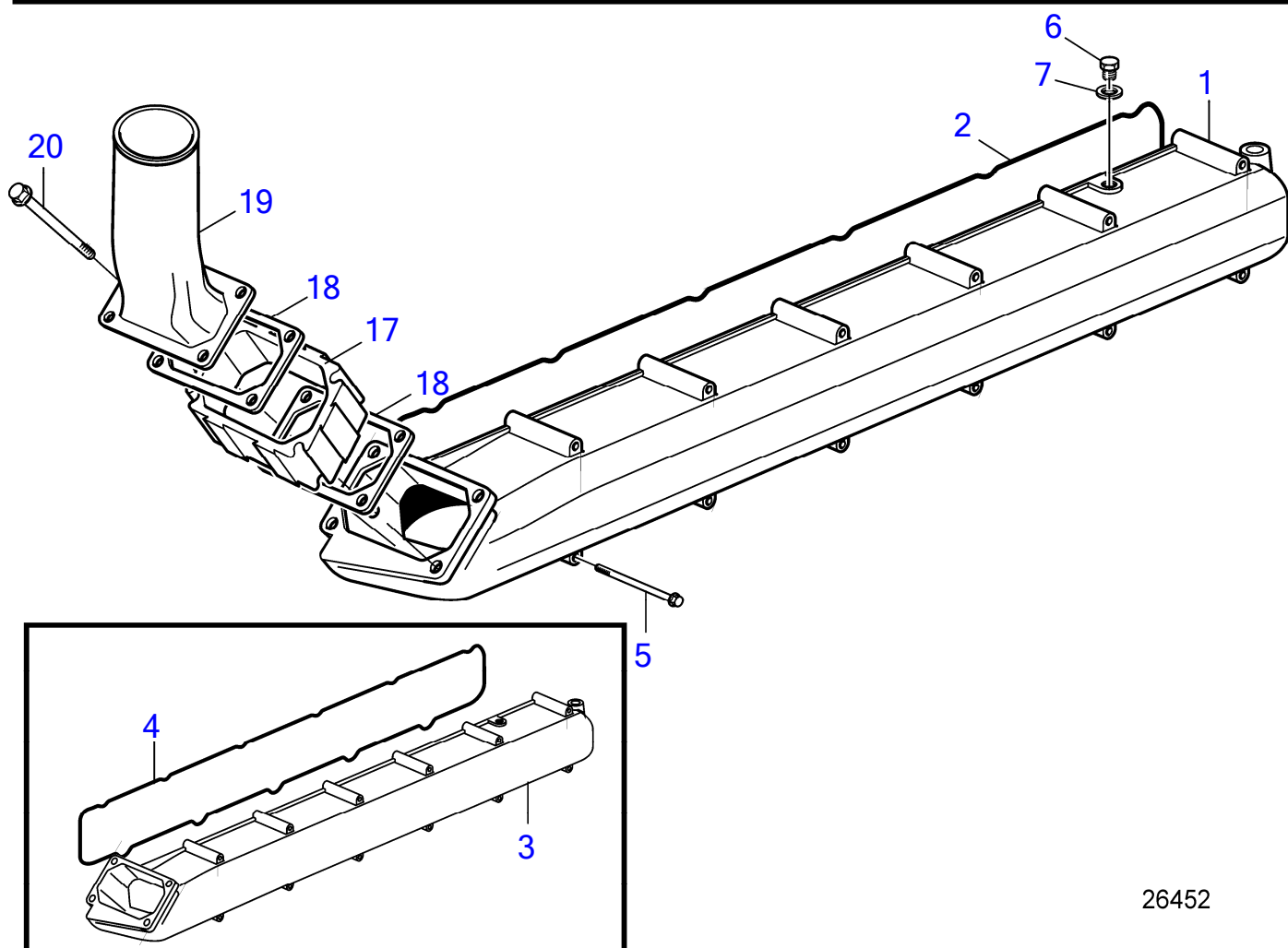
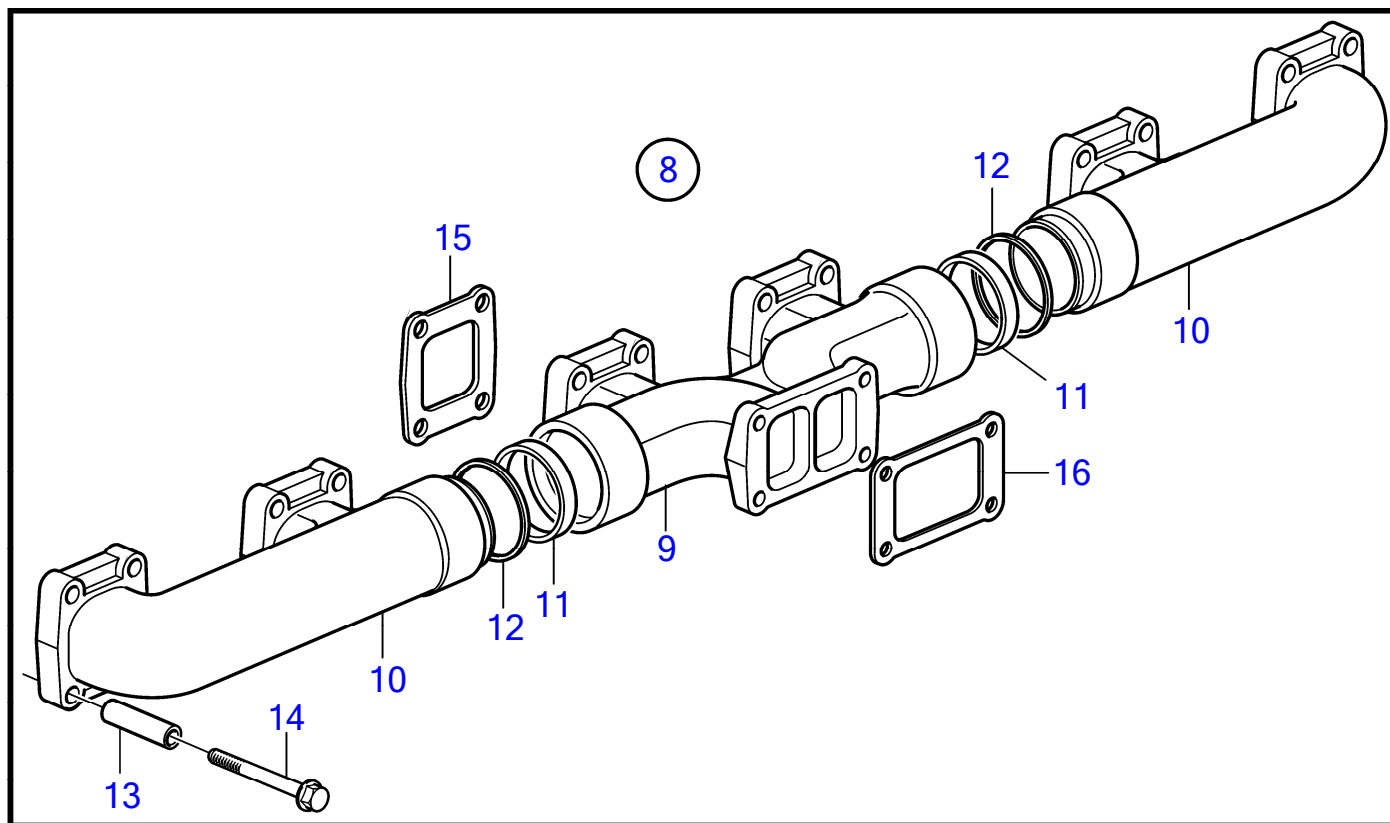
23 Unit Injector

TAD1660VE, TAD1661VE, TAD1662VE, TAD1640VE-B, TAD1641VE-B, TAD1642VE-B

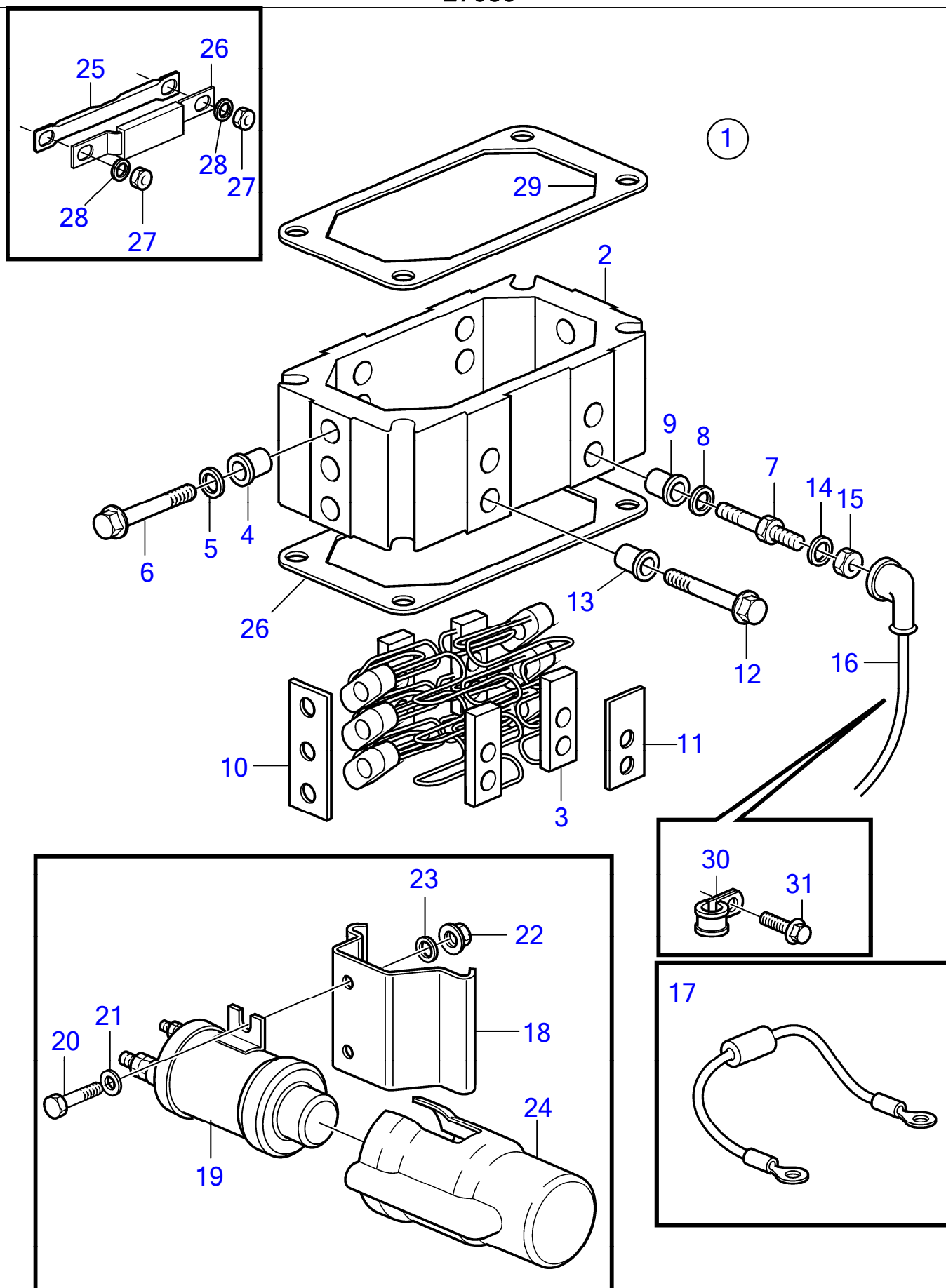
Ref	Part No.	Qty	Description	Notes
1	3801396	6	Unit injector	
	20564930	6	Unit injector	
	3801396	6	Unit injector, exch	
2	276948	1	• O-ring kit	(276935)
3	21261987	1	• Washer	SN2016021776-
			• Bulletin P-21-1-2	New Copper Sleeves to the Unit Injectors
4	21425162	6	Yoke	
5	21344774	6	Flange screw	
6	983472	1	Cable tie	For cable to unit injectors.
7	8131393	1	Retainer	For cable to unit injectors.



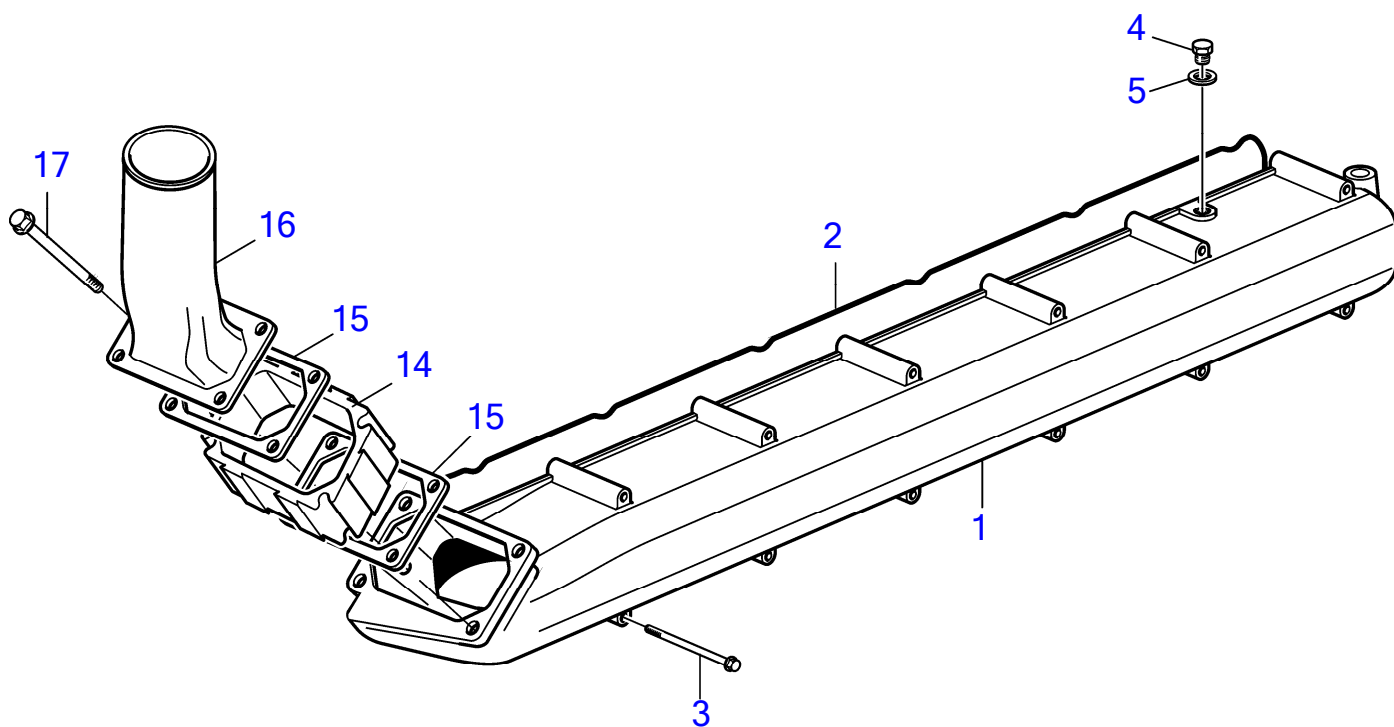
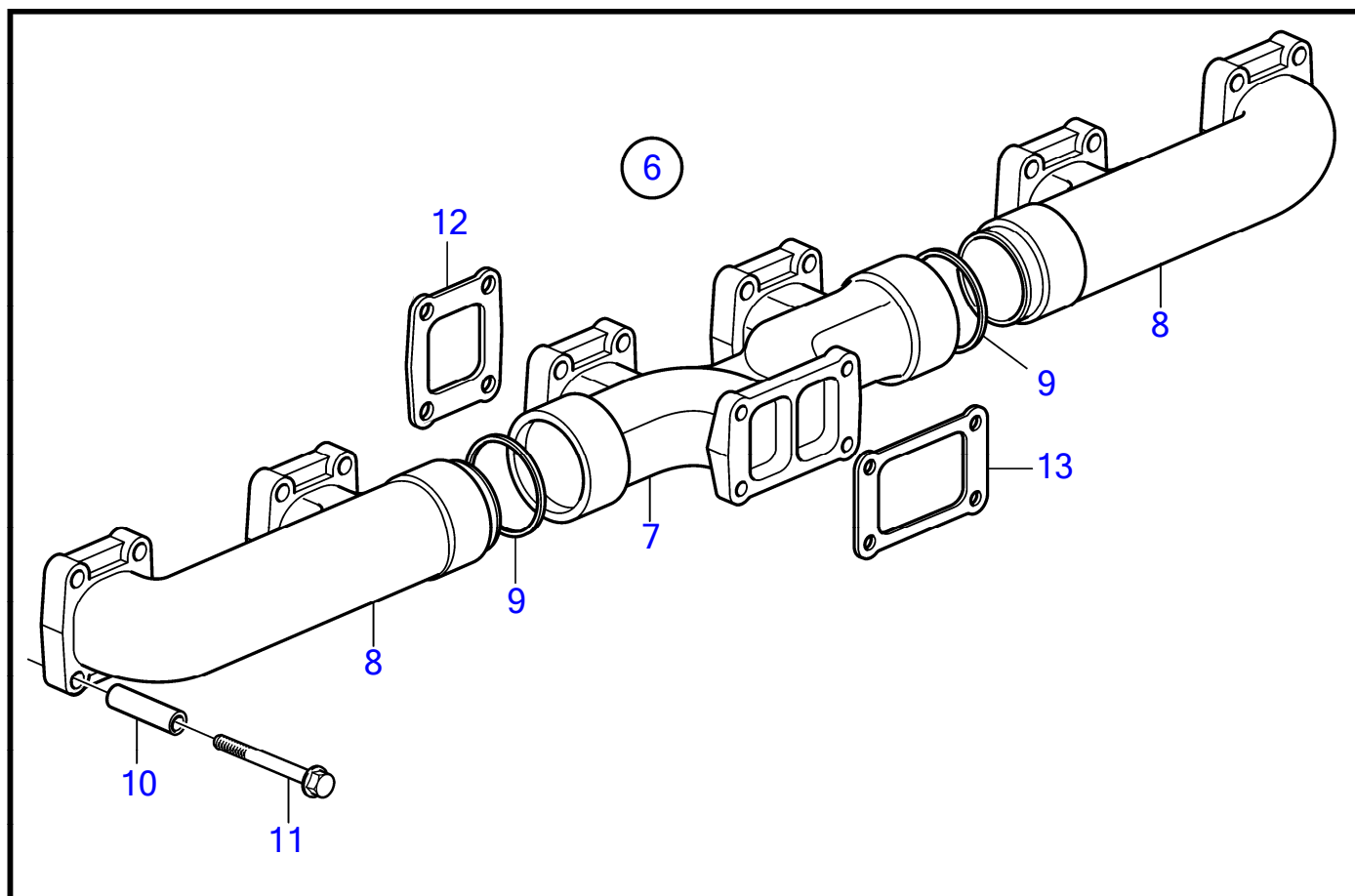
Ref	Part No.	Qty	Description	Notes
1	20570212	1	Inlet manifold	SN - 2016010024
2	20479613	1	• Seal	
3	20970998	1	Inlet manifold	SN 2016010025-
4	20563945	1	• Seal	
5	984741	12	Flange screw	
6	960628	1	Plug	
7	947281	1	Gasket	
8	11158142	1	Exhaust manifold	SN-2016010024
	11447007	1	Exhaust manifold	SN2016010025-
9			• Exhaust manifold	not sold separately
10			• Exhaust manifold	not sold separately
11	20938964	2	• Sealing kit	(20883460), For 11447007
	11158143	2	• Sealing ring	For 11158142
	20883460	2	• Sealing ring	SN2016010025-
12	21695684	2	• Sealing ring	SN2016010025-
13	1546517	24	Spacer sleeve	
14	984760	24	Flange screw	
15	20744865	6	Gasket	(8131215)
16	20784537	1	Plane gasket	(470939)
17	1676806	1	Spacer	
			•	
18	477314	2	Gasket	
19	3838354	1	Charge air pipe	
20	984744	4	Flange screw	



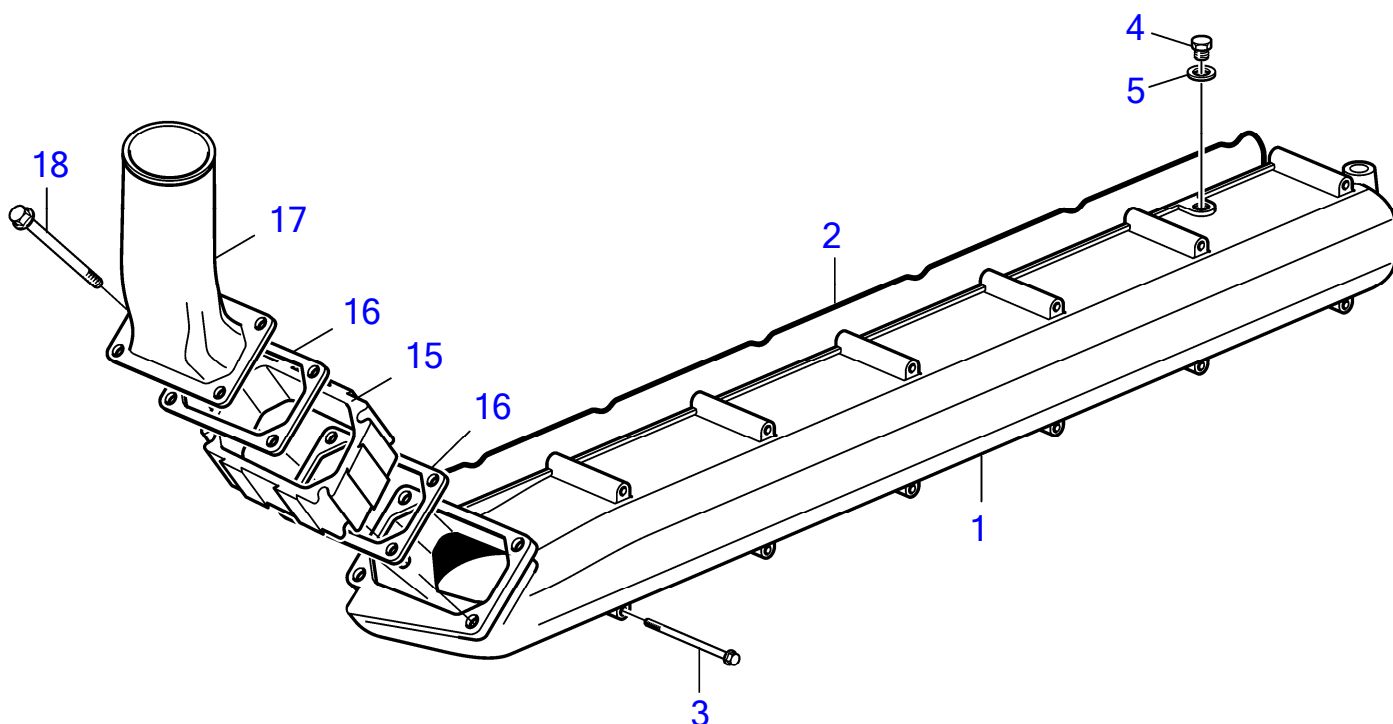
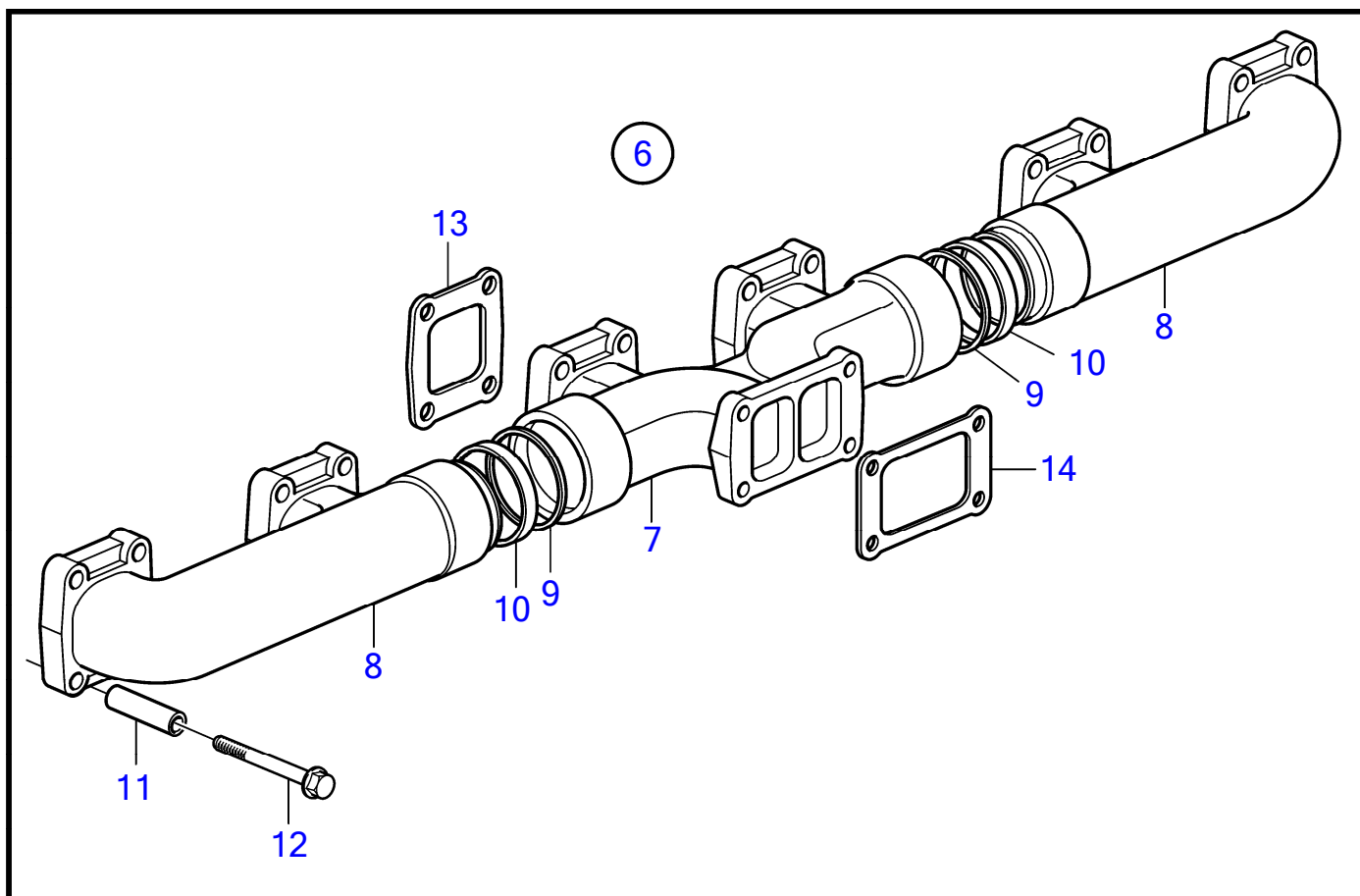
Ref	Part No.	Qty	Description	Notes
1	20570212	1	Inlet manifold	SN - 2016010024
2	20479613	1	• Seal	
3	20970998	1	Inlet manifold	SN 2016010025-
4	20563945	1	• Seal	
5	984741	12	Flange screw	
6	960628	1	Plug	
7	947281	1	Gasket	
8	78467242	1	Exhaust manifold	
9		1	• Exhaust manifold	not sold separately
10		2	• Exhaust manifold	not sold separately
11	20938964	2	• Sealing kit	Change pos 11,12 at the same time
12	21695684	2	• Sealing ring	
13	1546517	24	Spacer sleeve	
14	984760	24	Flange screw	
15	21352841	6	Gasket	(8131215)
16	20784537	1	Plane gasket	(470939)
17	22554715	1	Intermediate housing	
18	3979639	2	Plane gasket	
19	3838354	1	Charge air pipe	
20	984744	4	Flange screw	



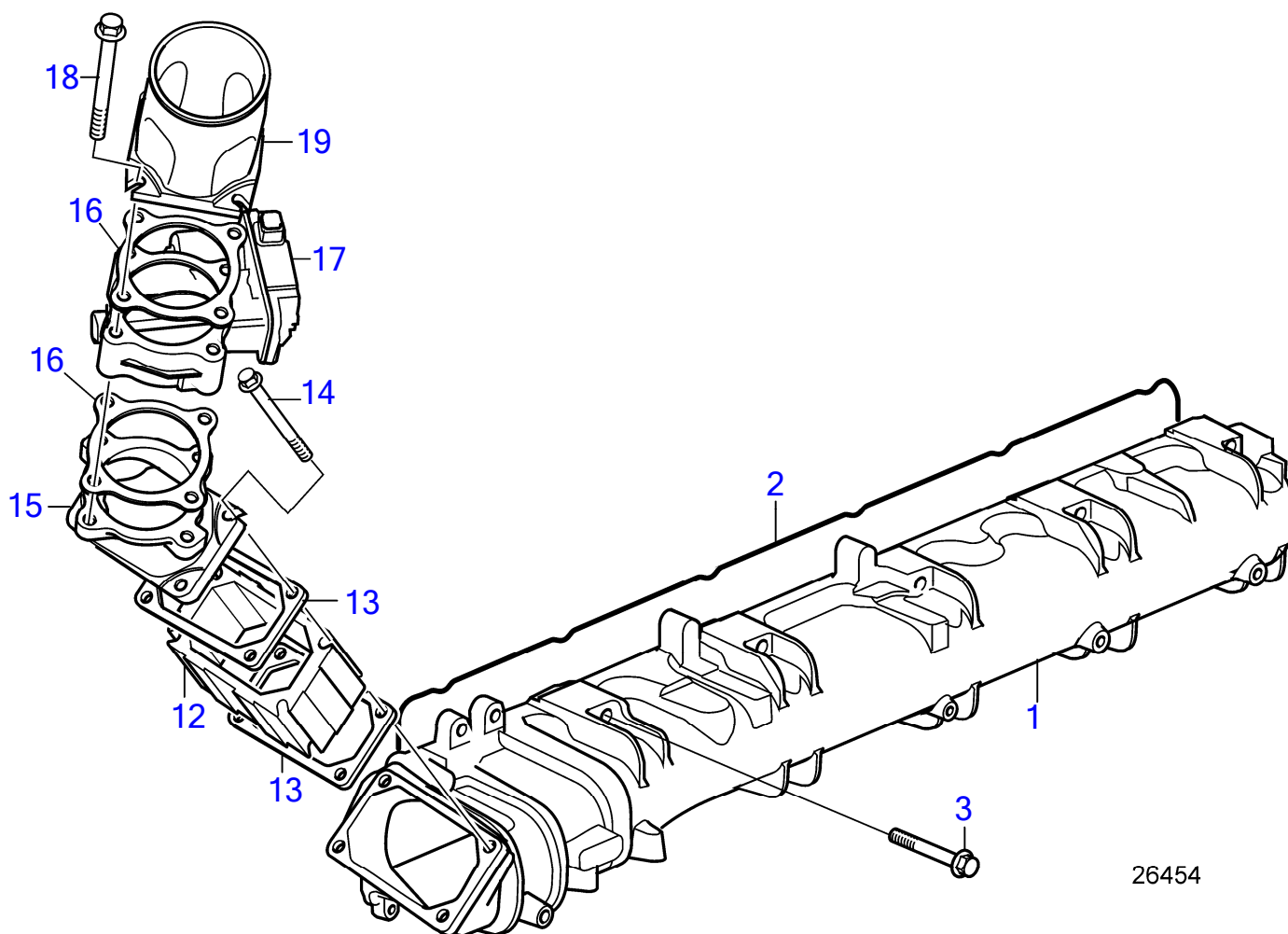
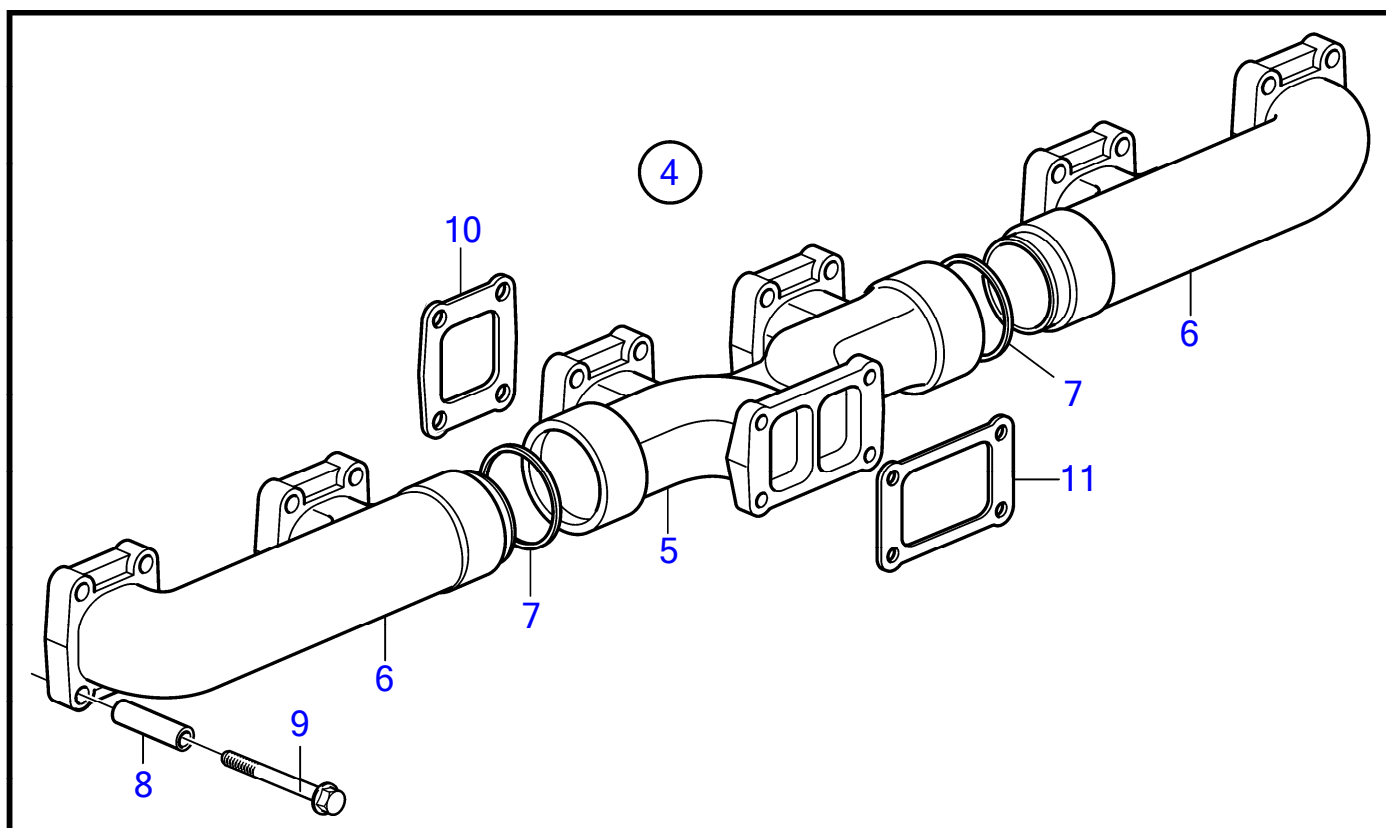
Ref	Part No.	Qty	Description	Notes
1	3834466	1	Starter element	
2		1	• Intermediate section	
3		1	• Wire element	
4	468468	12	• Sleeve	
5	191156	12	• Washer	
6	949652	12	• Flange screw	
7	468825	2	• Terminal screw	
8	192288	2	• Washer	
9	468511	2	• Rubber moulding	
10		2	• Isolation plate	
11		4	• Isolation plate	
12	984735	1	Flange screw	(949578)
13	478896	1	Guide sleeve	
14	955894	1	Washer	
15	983715	2	Hexagon nut	
16	3888621	1	Wiring harness	Obsolete part
17	873789	1	Diode	
18	471476	1	Attaching plate	
19	873962	1	Relay	
20	969405	2	Six point socket scr	
21	940090	2	Washer	
22	949874	2	Flange lock nut	
23	940090	2	Washer	
24	1581123	1	Casing	
25	471477	1	Fuse	
26	421692	1	Support	
27	955782	2	Hexagon nut	
28	955894	2	Washer	
29	3979639	2	Plane gasket	
30	945081	1	Clamp	
31	984733	1	Flange screw	



Ref	Part No.	Qty	Description	Notes
1	20970998	1	Inlet manifold	
2	20563945	1	• Seal	
3	984741	12	Flange screw	
4	960628	1	Plug	
5	947281	1	Gasket	
6	11447006	1	Exhaust manifold	
	17225285	1	Exhaust manifold	
7		1	• Exhaust manifold	
8		2	• Exhaust manifold	
9	20938964	2	• Sealing kit	
10	1546517	24	Spacer sleeve	
11	984760	24	Flange screw	
12	20744865	6	Gasket	(8131215)
13	20784537	1	Plane gasket	(470939)
14	1676806	1	Spacer	
			•	
			•	
15	477314	2	Gasket	
16	3838354	1	Charge air pipe	
17	984744	4	Flange screw	



Ref	Part No.	Qty	Description	Notes
1	20970998	1	Inlet manifold	
2	20563945	1	• Seal	
3	984741	12	Flange screw	
4	960628	1	Plug	
5	947281	1	Gasket	
6	78467240	1	Exhaust manifold	
7		1	• Exhaust manifold	
8		2	• Exhaust manifold	
9	21695684	2	• Sealing ring	Change pos 9,10 at the same time
10	20938964	2	• Sealing kit	
11	1546517	24	Spacer sleeve	
12	984760	24	Flange screw	
13	21352841	6	Gasket	(8131215)
14	20784537	1	Plane gasket	(470939)
15	22554715	1	Intermediate housing	
			•	
			•	
16	3979639	2	Plane gasket	
17	3838354	1	Charge air pipe	
18	984744	4	Flange screw	

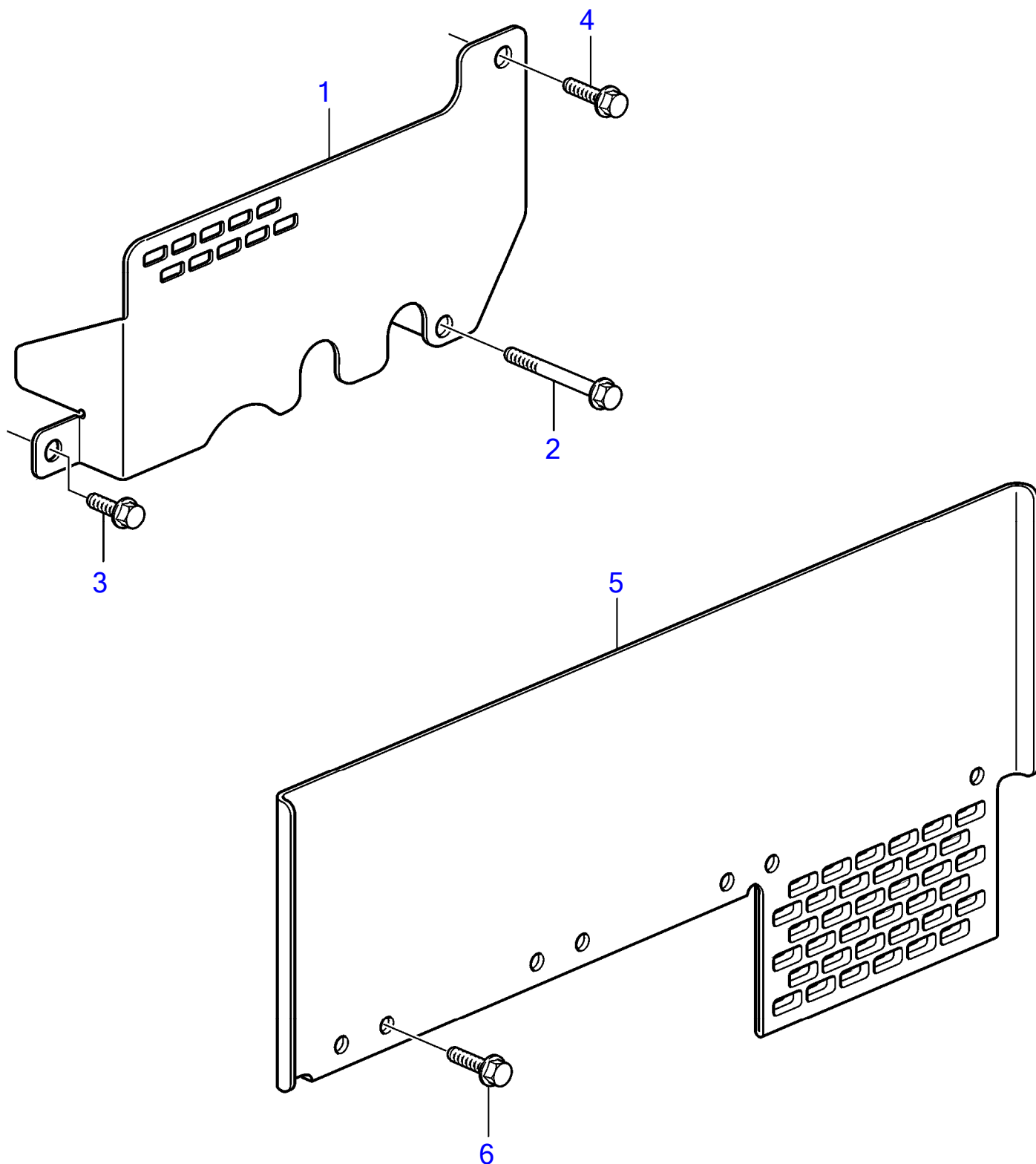


26454

25 Intake and Exhaust Manifold

TAD1660VE, TAD1661VE, TAD1662VE, TAD1640VE-B, TAD1641VE-B, TAD1642VE-B

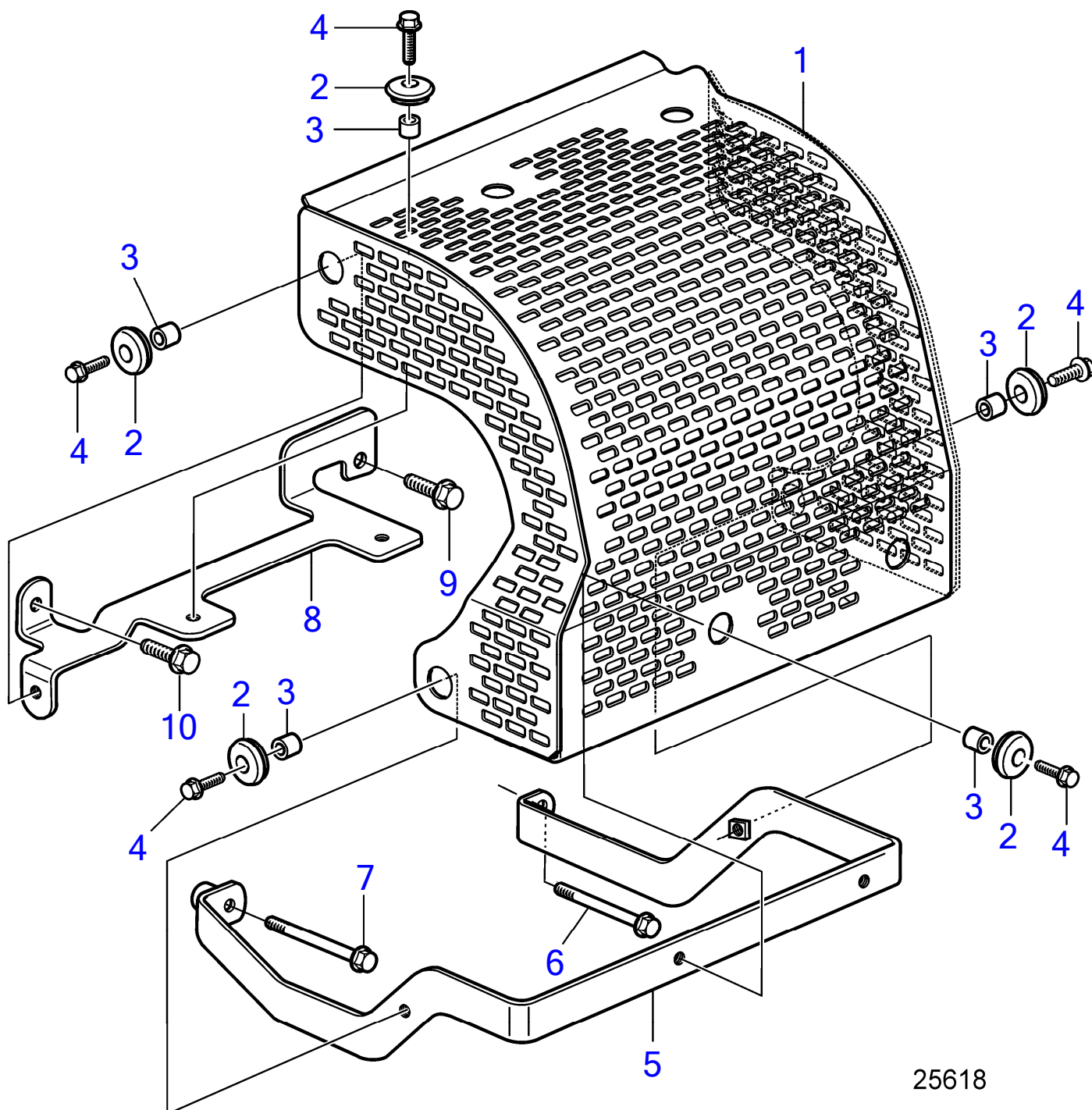
Ref	Part No.	Qty	Description	Notes
1	20970998	1	Inlet manifold	
2	20563945	1	Seal	
3	984741	12	Flange screw	
4	11158142	1	Exhaust manifold	
	78467240	1	Exhaust manifold	SN2016102026- Sealing Kit 20938964x1pcs and 21695685x2pcs
5			.	
6	11158142	2	Exhaust manifold	
7	11158143	2	Sealing ring	For 11158142
8	1546517	24	Spacer sleeve	
9	984760	24	Flange screw	
10	21352841	6	Gasket	
11	20784537	1	Plane gasket	(470939)
12	1676806	1	Spacer	
			.	
			.	
13	3979639	2	Plane gasket	
14	984744	4	Flange screw	
15	21308891	1	Charge air pipe	
16	21313833	2	Gasket	
17	21286060	1	Throttle	
	22123557	1	Throttle	Replaced by 23147233
	23147233	1	Throttle	
18	984741	4	Flange screw	
19	21308893	1	Connection pipe	



25 Heat Shield for Exhaust Manifold and Valve Cover

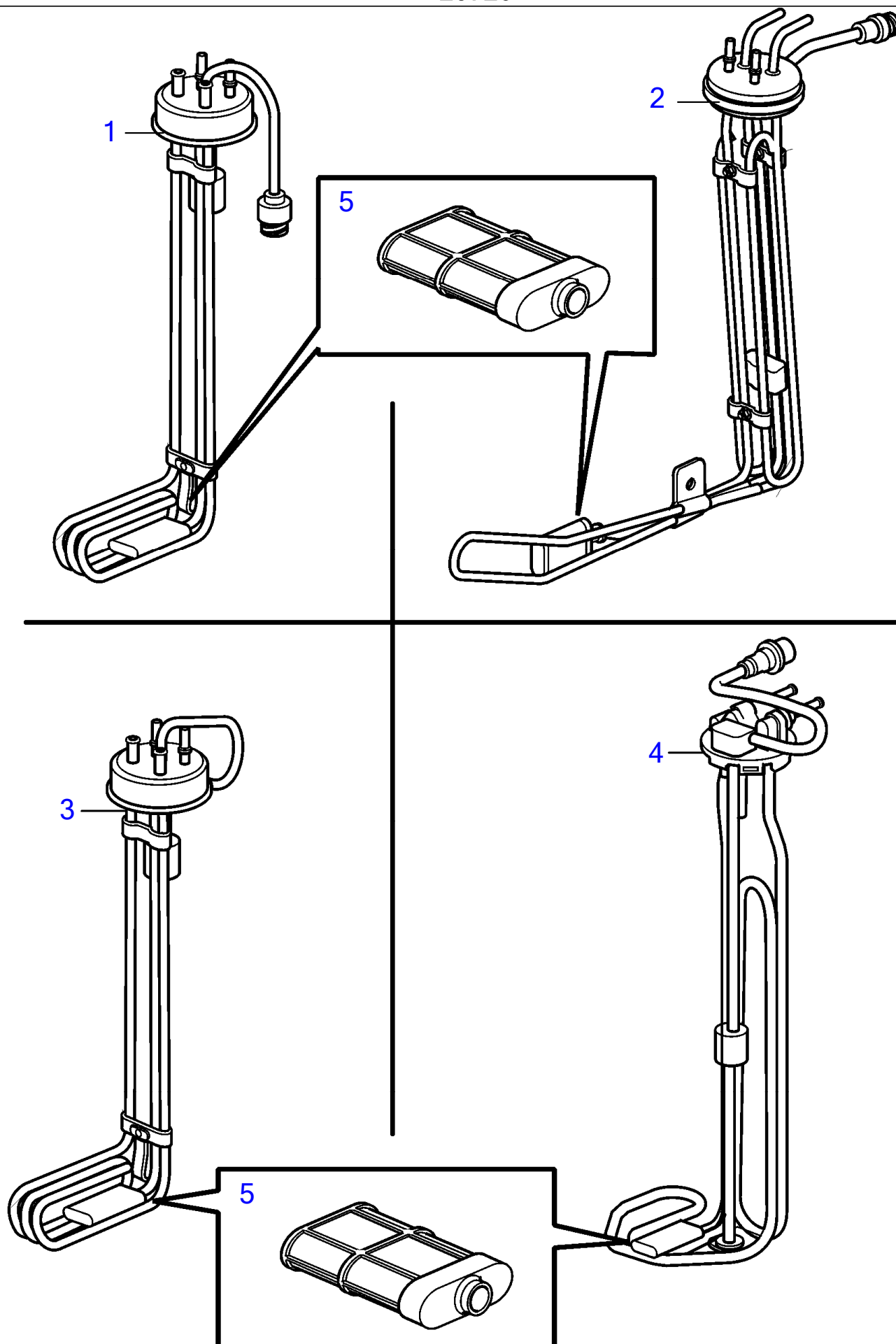
TAD1641VE, TAD1642VE, TAD1643VE, TAD1640VE-B, TAD1641VE-B, TAD1642VE-B

Ref	Part No.	Qty	Description	Notes
1	21442226	1	Radiation shield	Replaced by 23134524
	23134524	1	Radiation shield	
2	994390	1	Flange screw	
3	946502	1	Flange screw	
4	984753	1	Flange screw	
5	3884338	1	Heat shield	
6	984751	3	Flange screw	

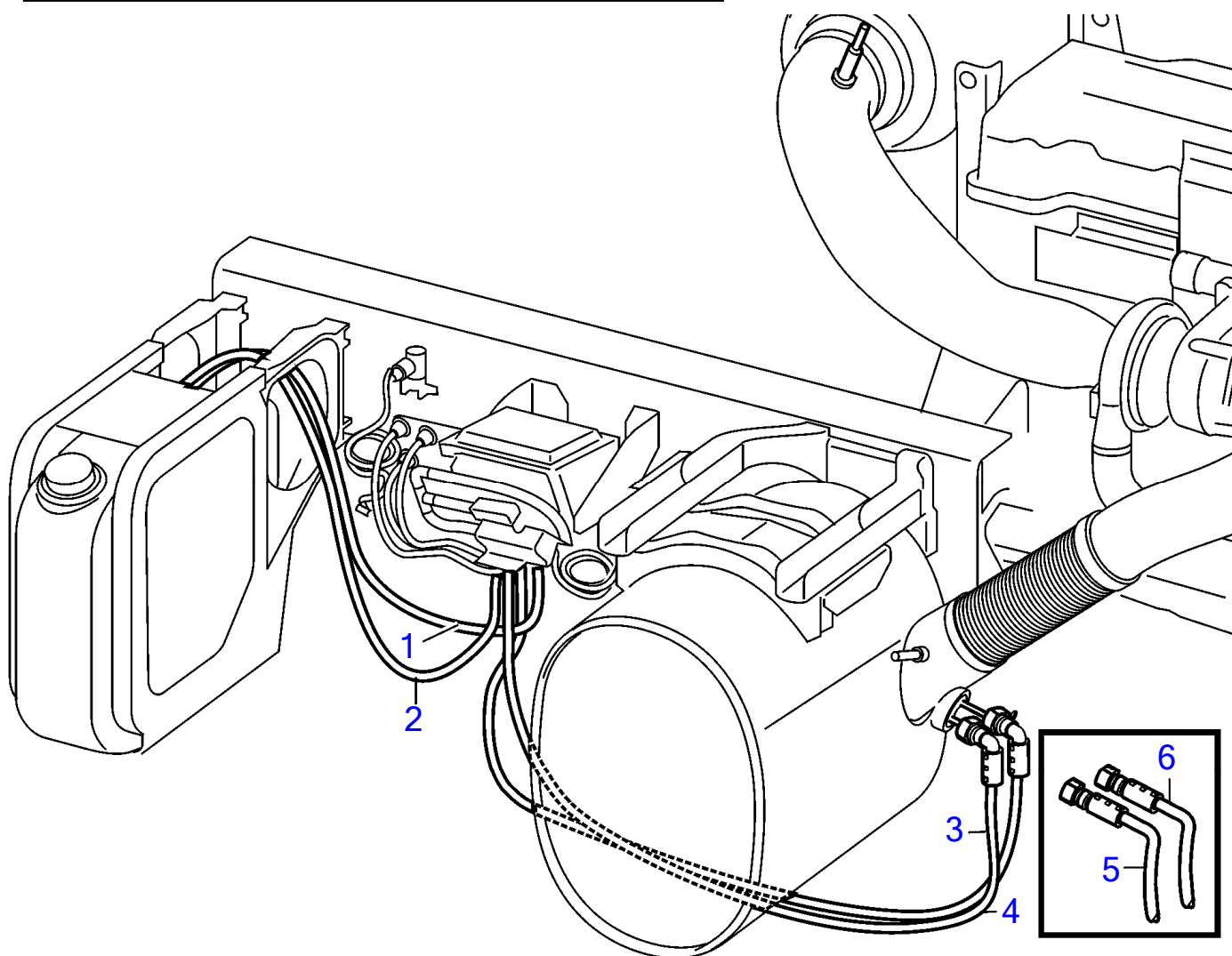
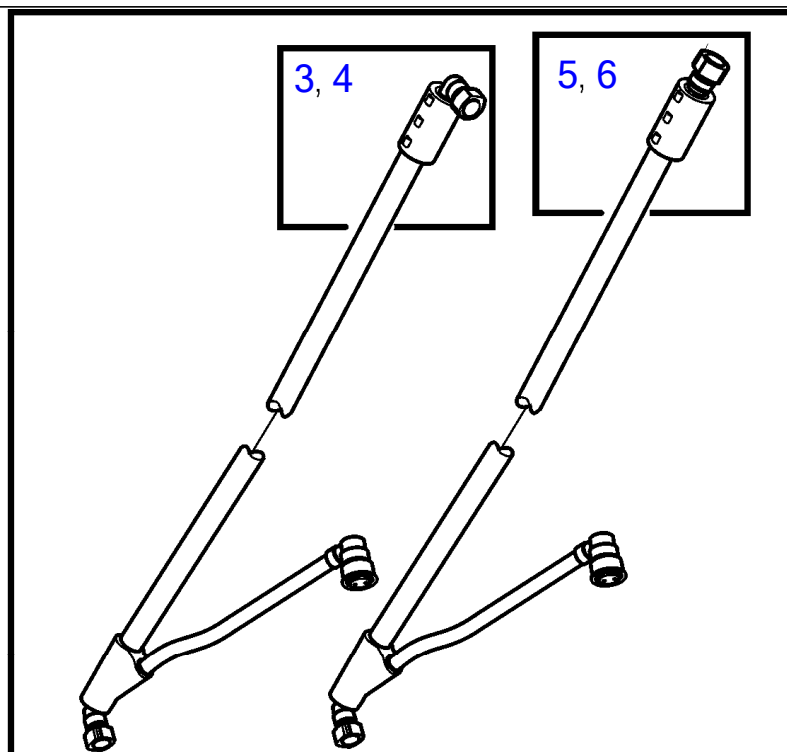


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Ref	Part No.	Qty	Description
1	21114899	1	Heat shield
2	3886025	7	• Rubber bushing
3	3830336	7	• Spacer
4	984735	8	Flange screw
5	21329675	1	Bracket
6	984739	1	Flange screw
7	984740	1	Flange screw
8	21329673	1	Bracket
9	984752	1	Flange screw
10	984753	1	Flange screw



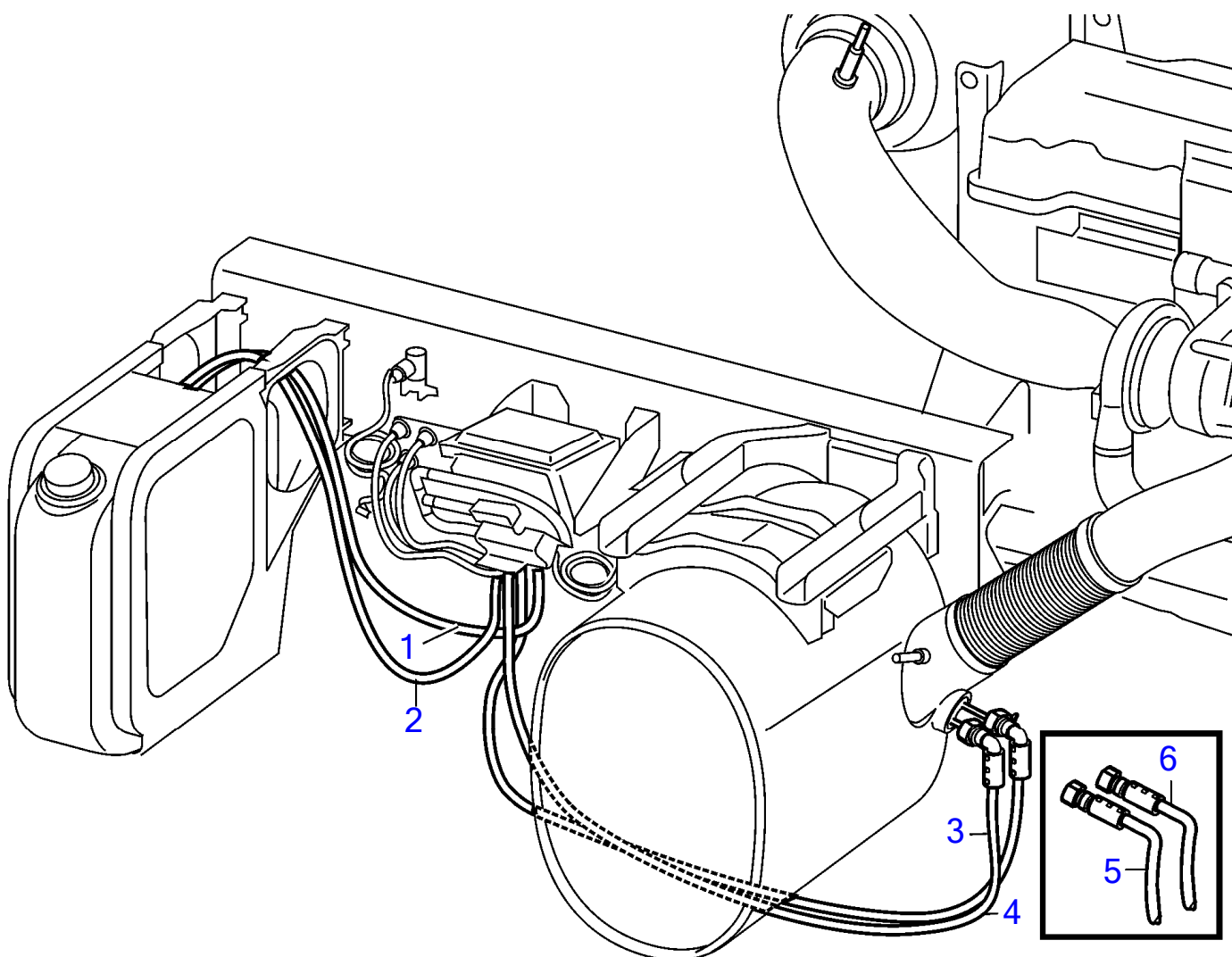
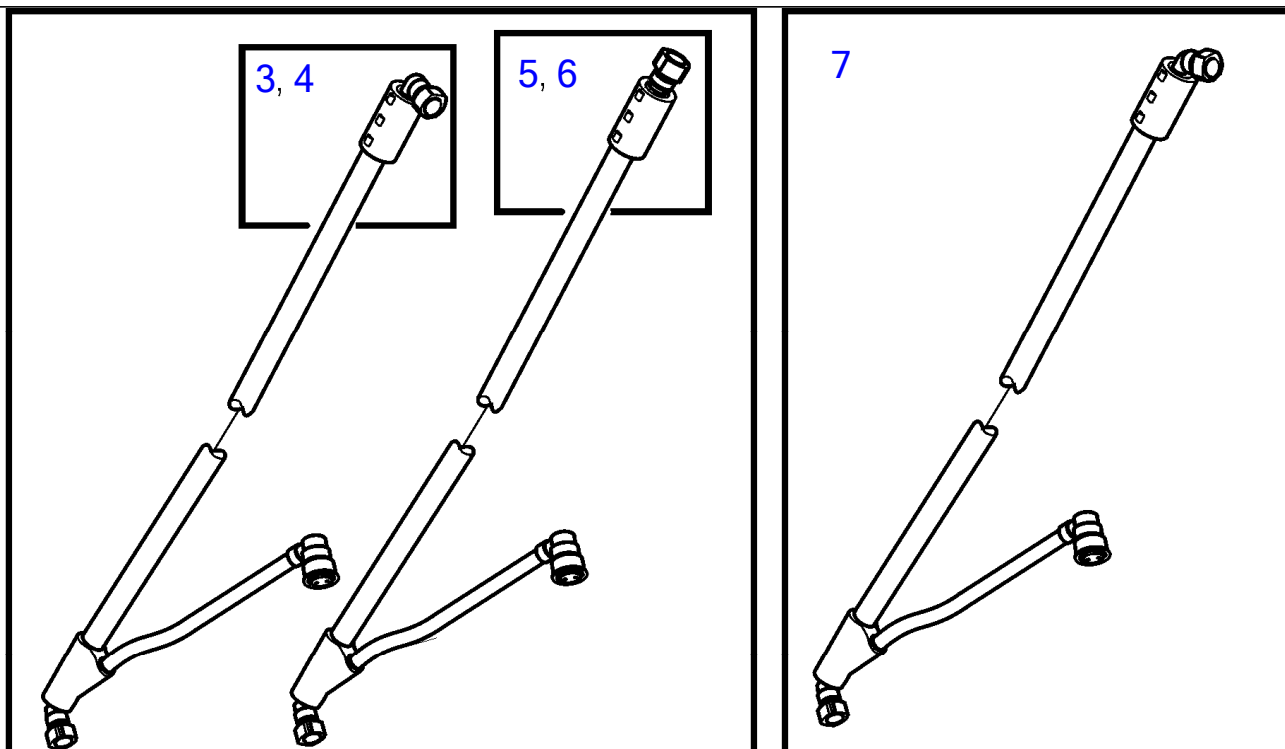
Ref	Part No.	Qty	Description	Notes
1	21124970	1	Resistor	20L
2	21073824	1	Combined tank unit	40L
3	21124970	1	Resistor	50L
4	21146950	1	Combined tank unit	70L
5	22230755	1	Filter	Replaced by 22406383, 100 My Micron
	22406383	1	Kit	40 My Micron



25 SCR. Hoses for Urea Installation

TAD1641VE, TAD1642VE, TAD1643VE, TAD1640VE-B, TAD1642VE-B

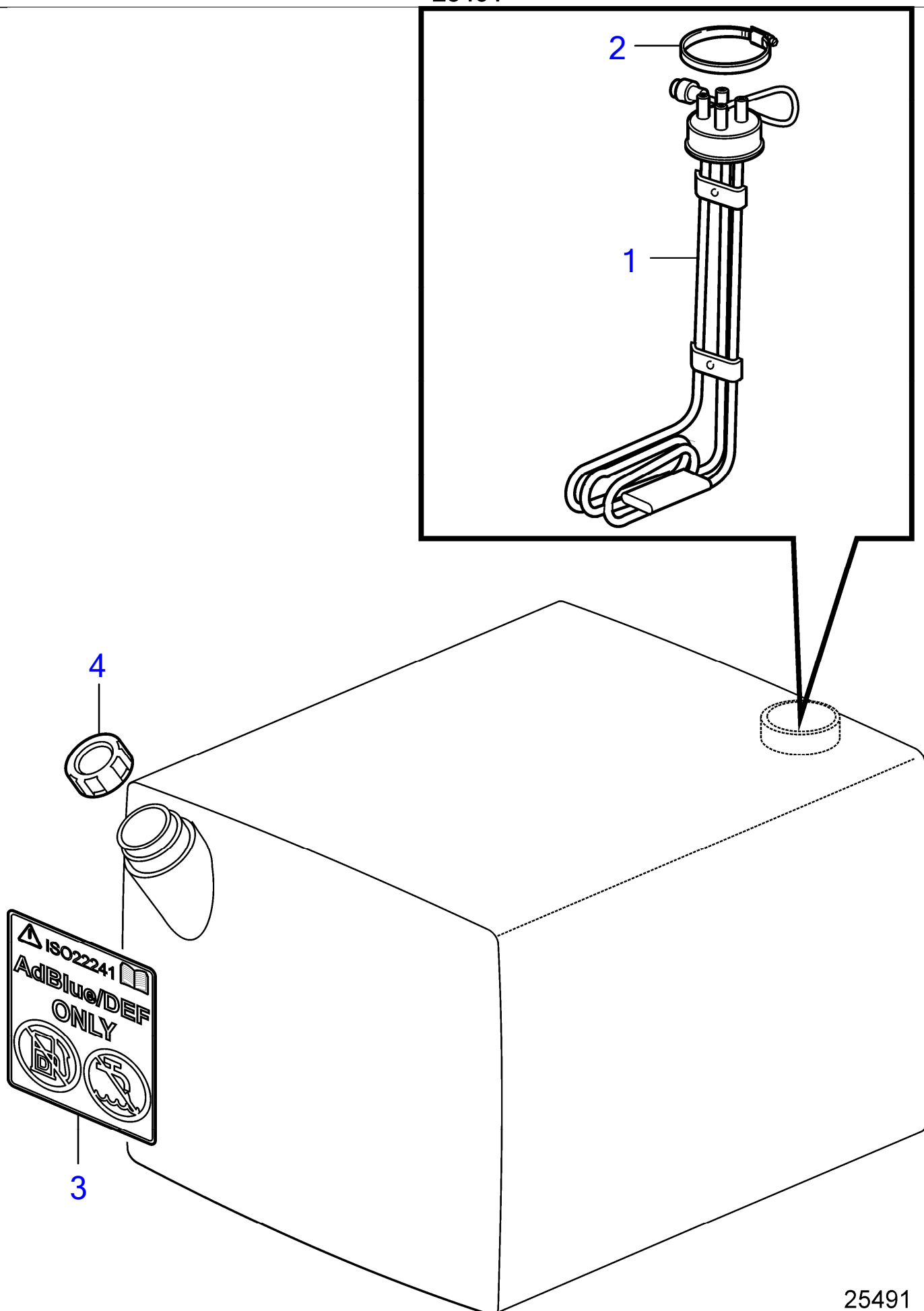
Ref	Part No.	Qty	Description	Notes
1	21413557	1	Hose, black	L=3000mm, From tank to pump
2	21413558	1	Hose, white	L=3000mm, From pump to tank
3	21413554	1	Hose, red	L=3000mm, From pump to injector, Curved connection
4	21413556	1	Hose, yellow	L=3000mm, From injector to pump, Curved connection
5	21415246	1	Hose, red	L=3000mm, From pump to injector, Straight connection
6	21415247	1	Hose, yellow	L=3000mm, From injector to pump, Straight connection



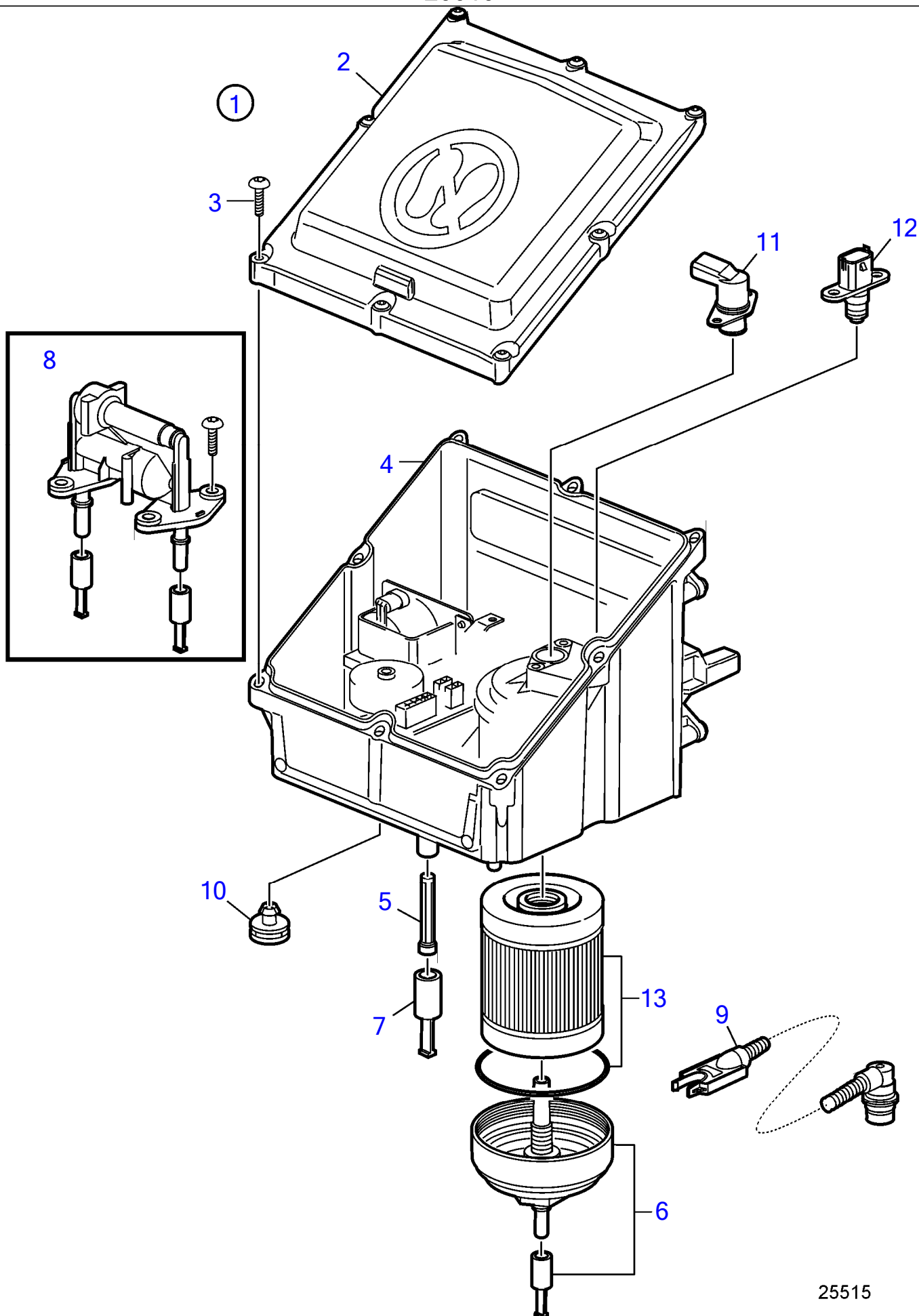
25 SCR. Hoses for Urea Installation

TAD1660VE, TAD1661VE, TAD1662VE

Ref	Part No.	Qty	Description	Notes
1	21413557	1	Hose, red	L=3000mm, From tank to pump
2	21413558	1	Hose, yellow	L=3000mm, From pump to tank
3	21413554	1	Hose, black	L=3000mm, From pump to injector, Curved connection
4	21413556	1	Hose, white	L=3000mm, From injector to pump, Curved connection
5	21415246	1	Hose, red	L=3000mm, From tank to pump, Straight connection
6	21415247	1	Hose, yellow	L=3000mm, From pump to tank, Straight connection
7	21686088	1	Hose, black	L=4300mm, From pump to injector
	21686089	1	Hose, white	L=4300mm, From injector to pump
	21686090	1	Hose, red	L=4300mm, From tank to pump
	21686091	1	Hose, yellow	L=4300mm, From pump to tank
	21686092	1	Hose, red	L=4300mm, From tank to pump
	21686093	1	Hose, yellow	L=4300mm, From pump to tank
	21686079	1	Hose, black	L=1500mm, From pump to injector
	21686080	1	Hose, white	L=1500mm, From injector to pump
	21686081	1	Hose, red	L=1500mm, From tank to pump
	21686082	1	Hose, yellow	L=1500mm, From pump to tank
	21686083	1	Hose, red	L=1500mm, From tank to pump
	21686084	1	Hose, yellow	L=1500mm, From pump to tank



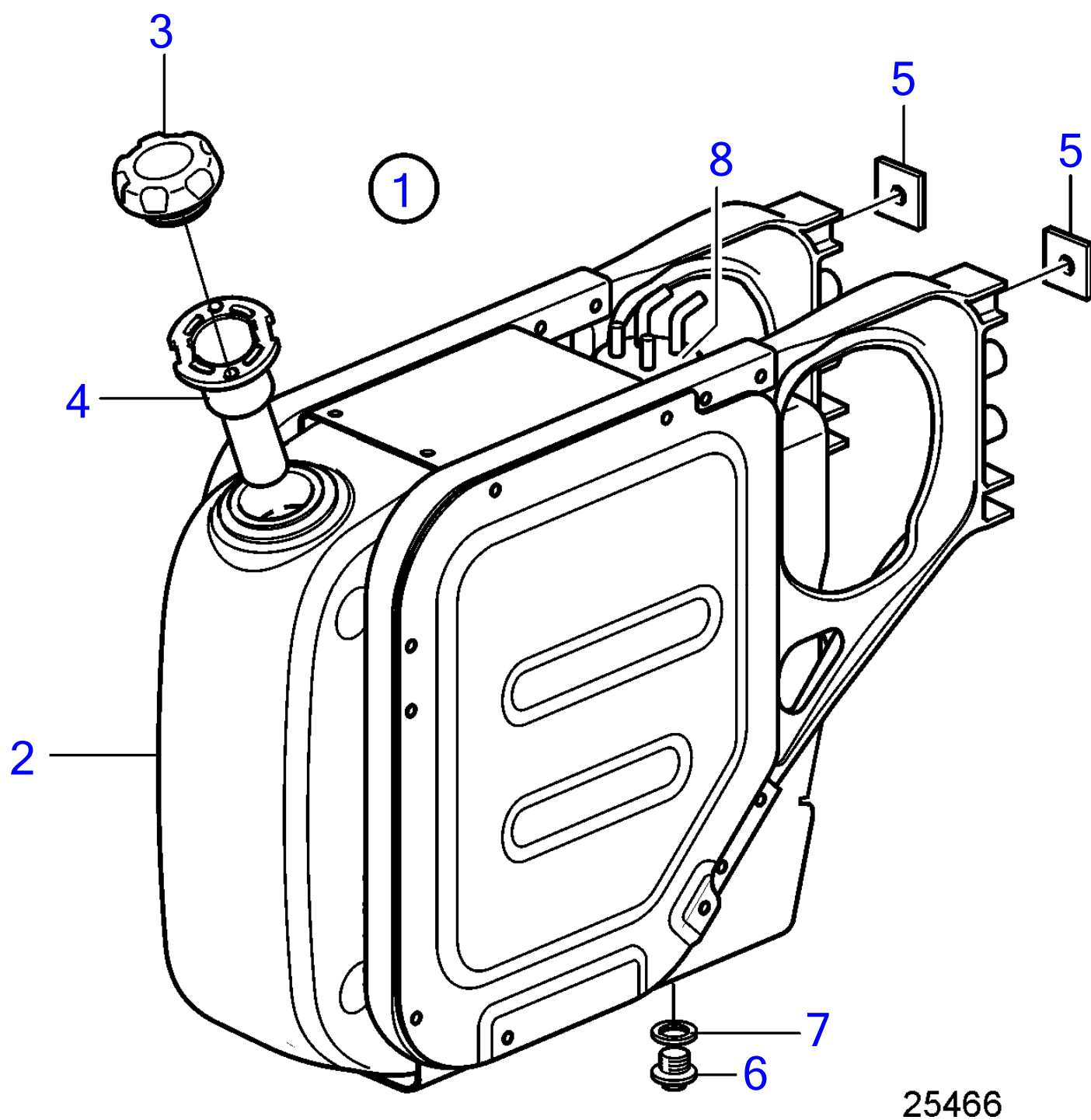
UPD:9/27/2018



25 Pump Unit SCR, Components

TAD1660VE, TAD1661VE, TAD1662VE

Ref	Part No.	Qty	Description	Notes
1	21582902	1	Pump unit	Not programmed, Replaced by 21687107
	21687107	1	Pump unit	Not programmed, Replaced by 21911392
	21911392	1	Pump unit	Not programmed, Replaced by 21966582
	21966582	1	Pump unit	Not programmed, Replaced by 22169014
	22169014	1	Pump unit	Not programmed, Replaced by 22668890
	22668890	1	Pump unit	Not programmed
	21565975	1	• Software	Warehouse programming. This p/n can not be ordered, but will be used for invoicing.
	21565977	1	• Software	Vodia-programming. This p/n can not be ordered, but will be used for invoicing.
2		1	• Cover	
3		8	• Screw, torx	M4
4		1	• Pump unit	
5	20877958	1	• Strainer	
6	20877939	1	• Filter cap	
7		5	• Protective cap	
8	21333211	1	• Adapter	
9	21302273	1	• Heater	
10	20993004	2	• Pressure equalizer	
11	21390067	1	• Pressure sensor	
12	21390063	1	• Temperature sensor	
13	21333097	1	• Filter kit	Incl. plug not to be used

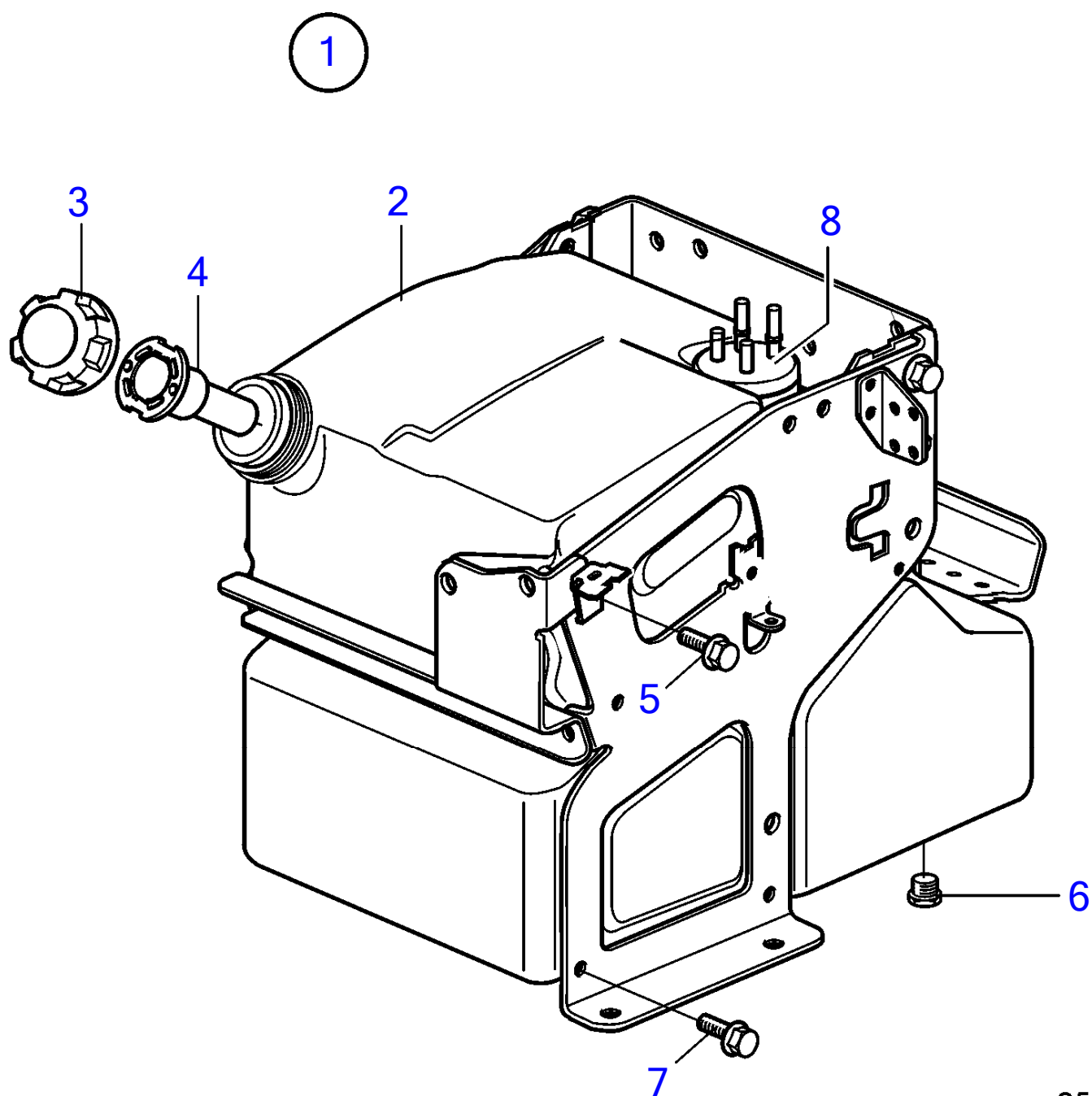


25466

25 AdBlue/DEF Tank 40L

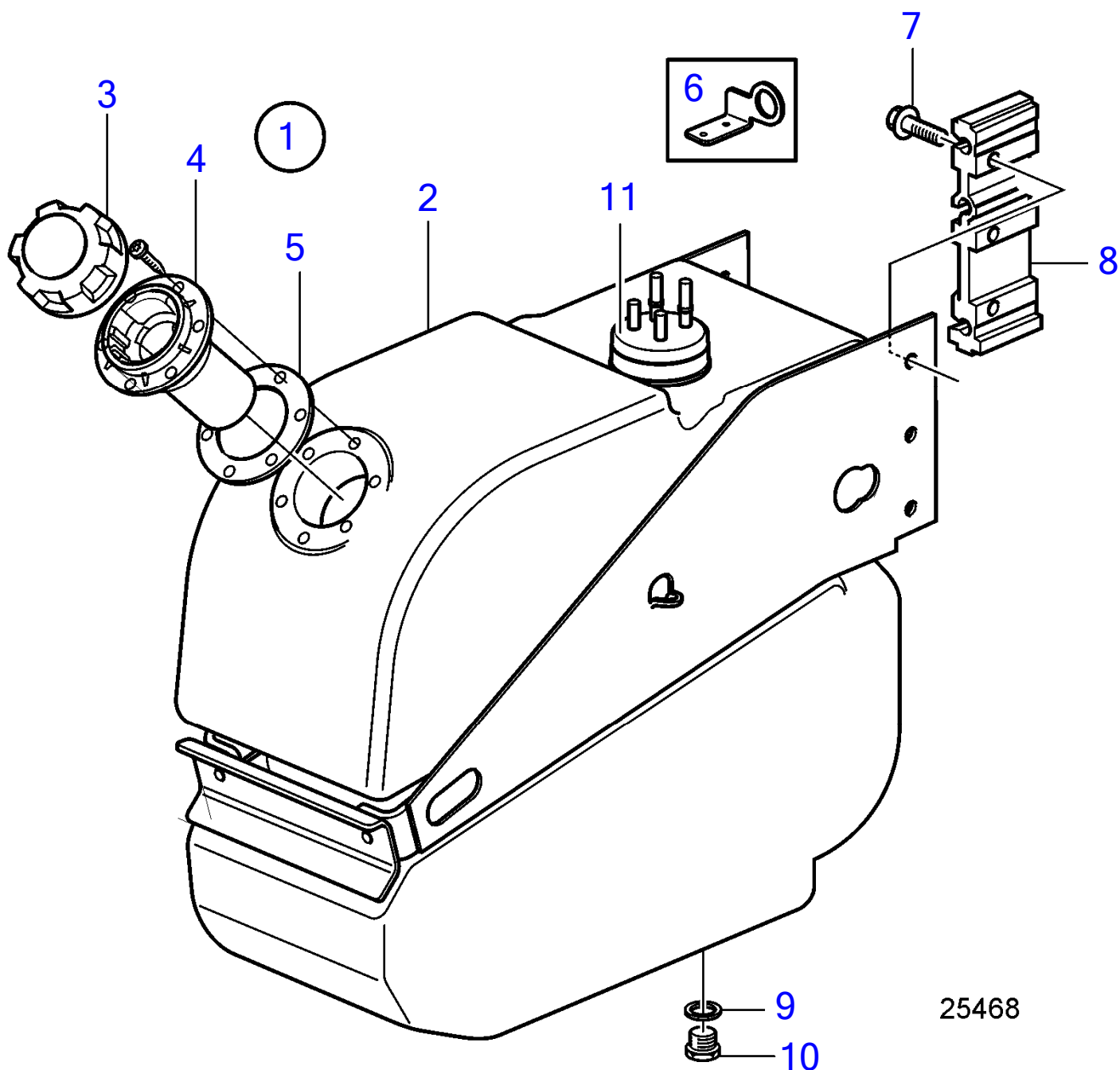
TAD1660VE, TAD1661VE, TAD1662VE

Ref	Part No.	Qty	Description	Notes
1	21215923	1	Def tank	
2	(21134667)	1	Diesel exhaust fluid	Obsolete part
3	20926021	1	Filler cap	
4	82269261	1	Filter	
5	20442205	2	Spacer sleeve	
6	20562668	1	Plug	
7	982724	1	Gasket	
8		1	Level sensor, heater	



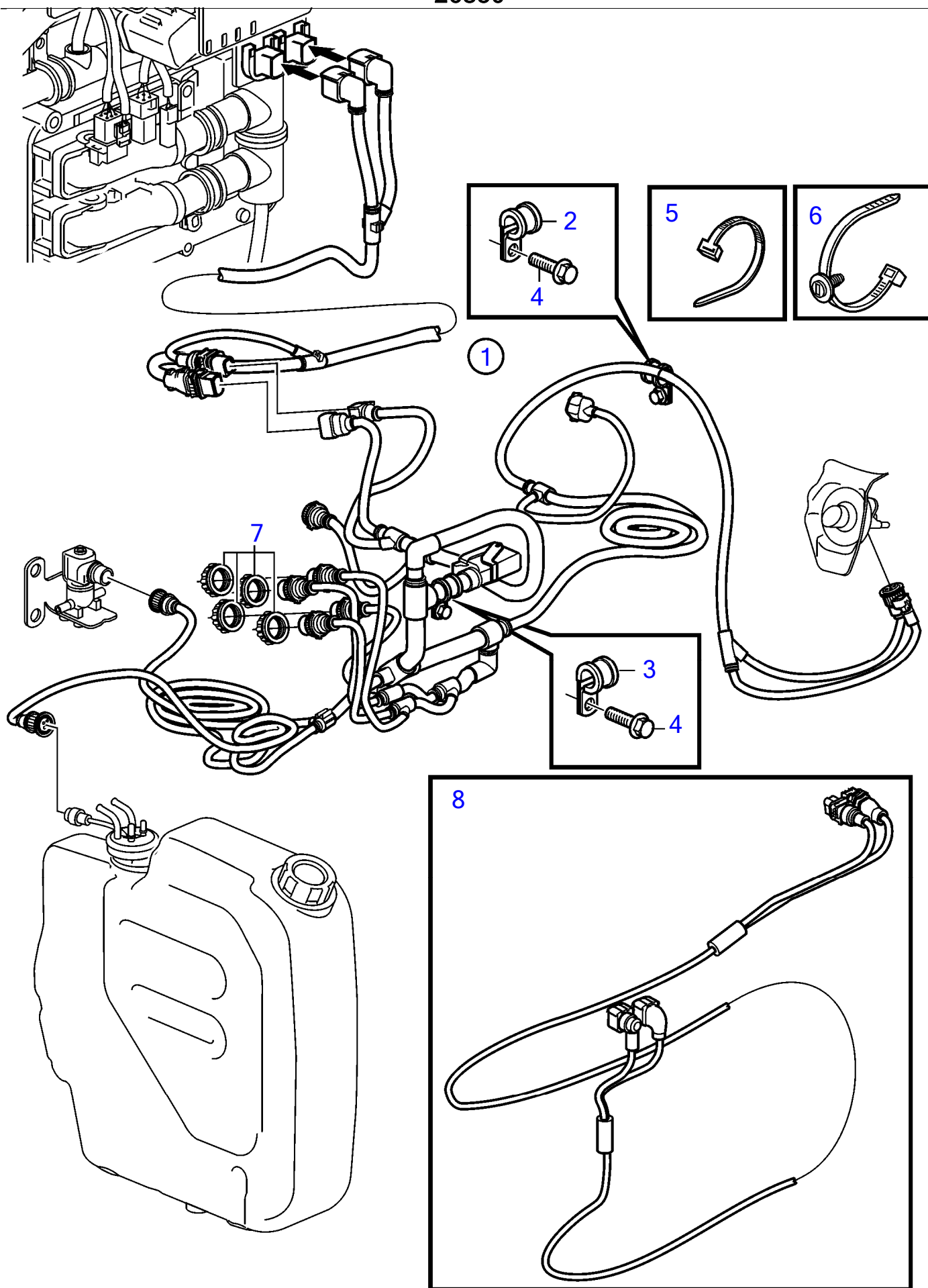
25467

Ref	Part No.	Qty	Description
1	82291233	1	Urea tank
2		1	Def tank
3	21281408	1	Filler cap
4	82269261	1	Filter
5	984752	1	Flange screw
6	21028423	1	Plug
7	984725	2	Flange screw
8		1	Level sensor, heater

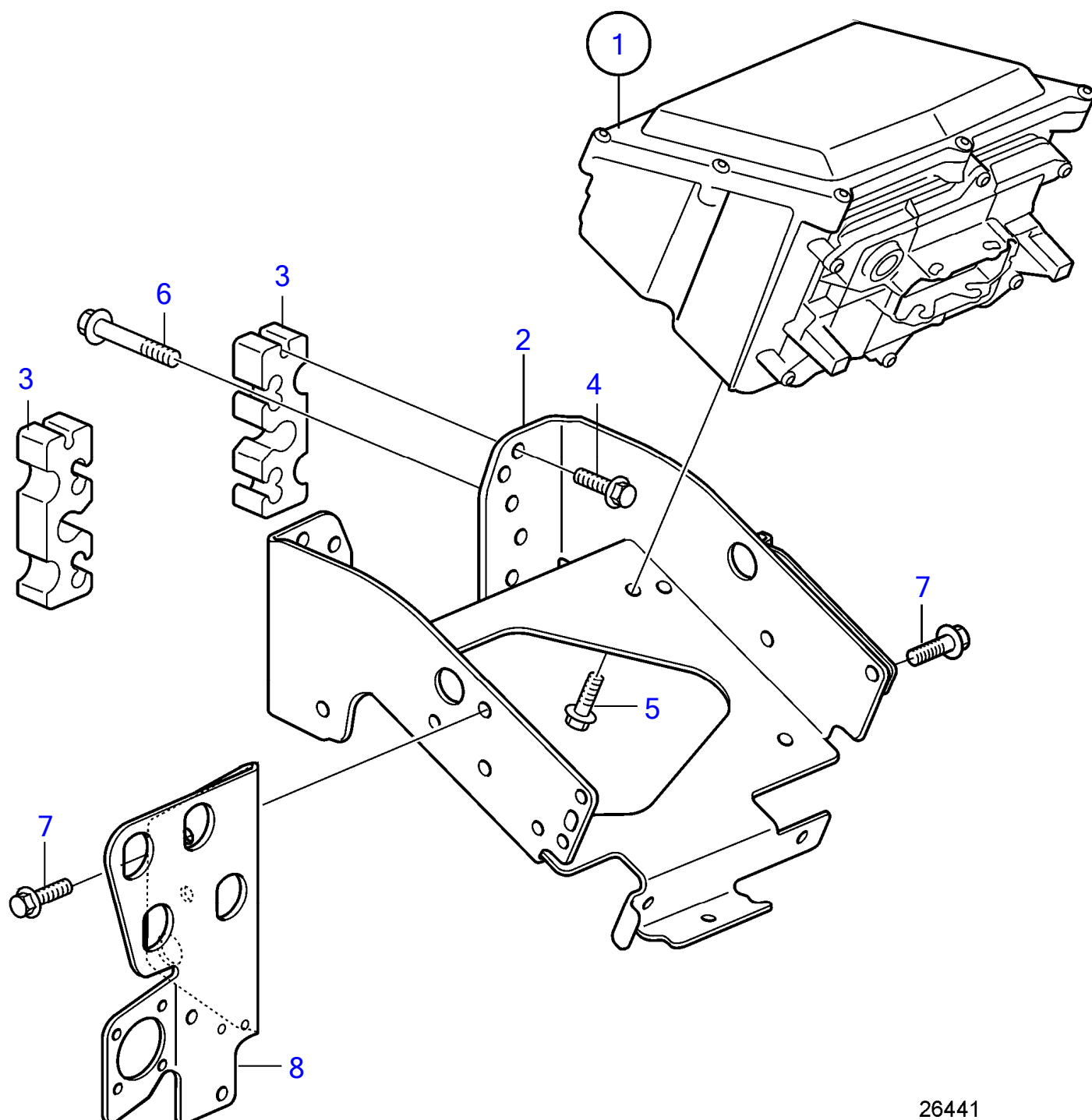


25468

Ref	Part No.	Qty	Description
1	82295532	1	Def tank
2		1	Def tank
3	20926021	1	Filler cap
4	82269261	1	Filter
5	21147637	1	Gasket
6		1	Support
7	968163	6	Flange screw
8		2	Support
9	21147633	1	Rubber washer
10	21073027	1	Plug
11		1	Level sensor, heater

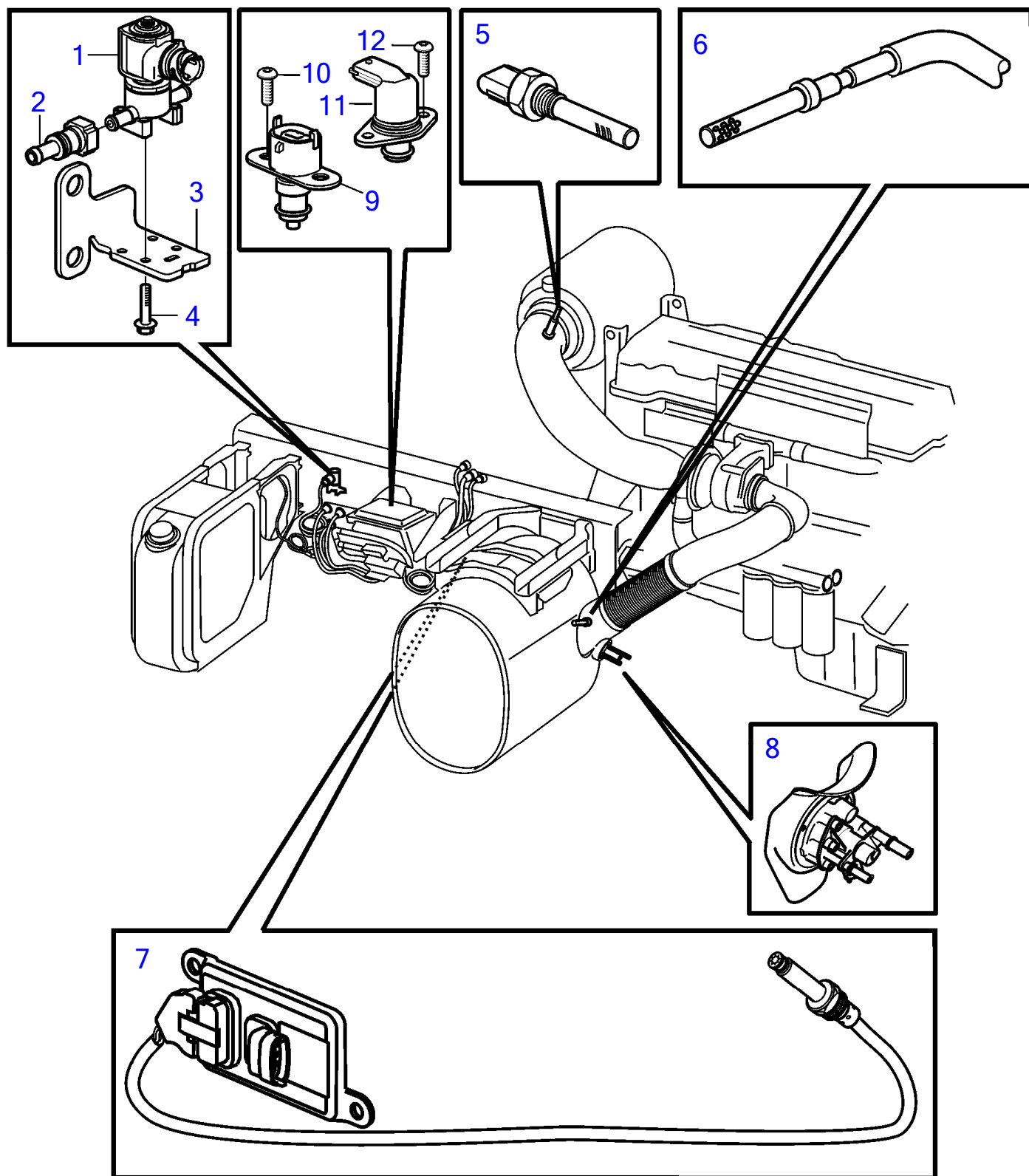


Ref	Part No.	Qty	Description	Notes
1	21330888	1	Wiring harness	
2	945081	1	Clamp	
3	947827	1	Clamp	
4	984725	2	Flange screw	
5	948211	X	Cable tie	
6	980881	X	Cable tie	
7	3963413	4	Ring	
8	21932735	1	Wiring harness, extension cable	L=3m
	21932800	1	Wiring harness, extension cable	L=5m
	21932805	1	Wiring harness, extension cable	L=7m

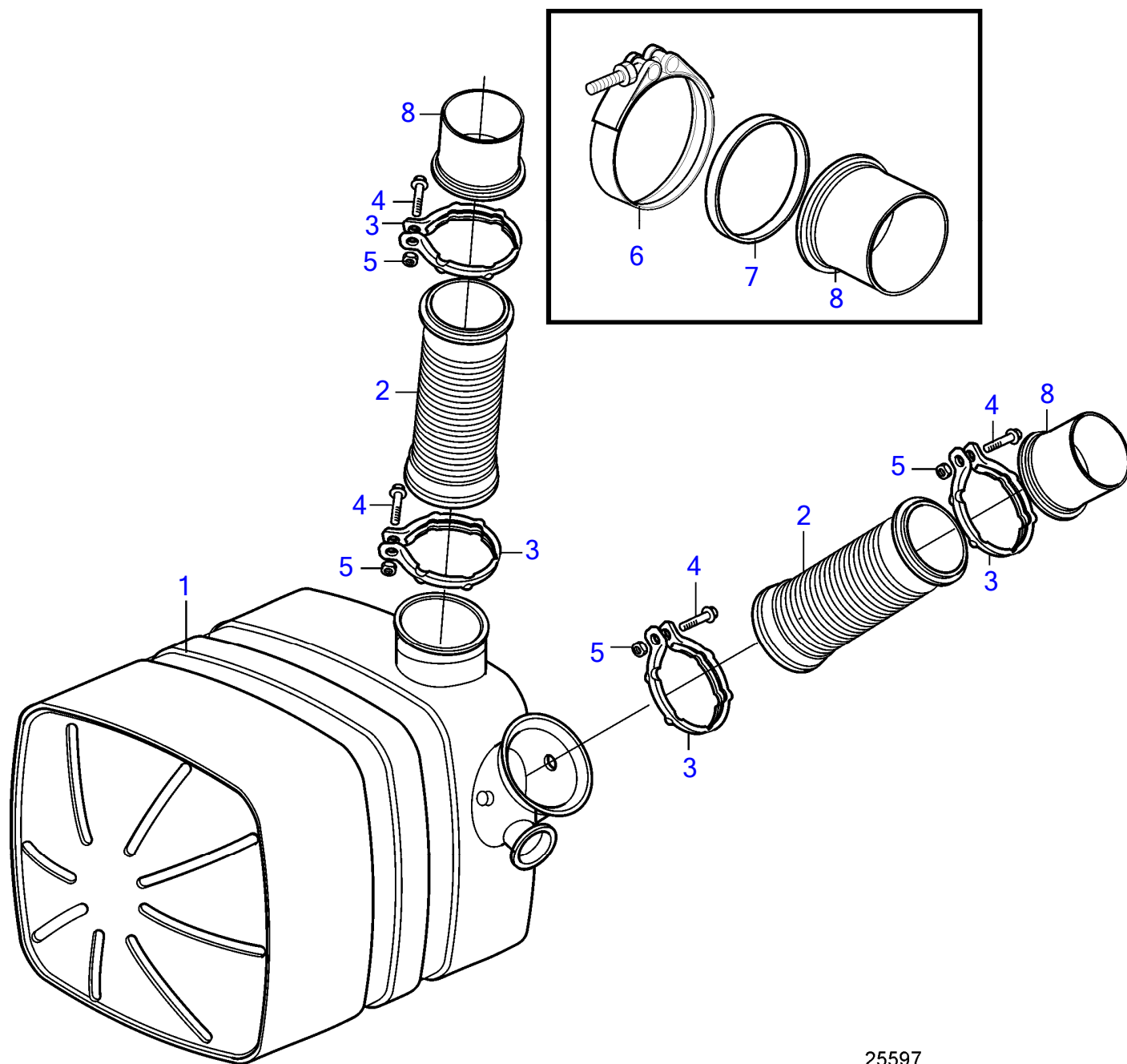


26441

Ref	Part No.	Qty	Description	Notes
1	21582902	1	Pump unit	Not programmed, Replaced by 21687107
	21687107	1	Pump unit	Not programmed, Replaced by 21911392
	21911392	1	Pump unit	Not programmed, Replaced by 21966582
	21966582	1	Pump unit	Not programmed, Replaced by 22169014
	22169014	1	Pump unit	Not programmed, Replaced by 22668890
	22668890	1	Pump unit	Not programmed
	21565975	1	Software	Warehouse programming. This p/n can not be ordered, but will be used for invoicing.
	21565977	1	Software	Vodia-programming. This p/n can not be ordered, but will be used for invoicing.
2	20974431	1	Bracket	
3	20429843	1	Housing	
4	945444	2	Flange screw	
5	20730764	4	Flange screw	
6	20738626	4	Flange screw	
7	946440	4	Flange screw	
8	20775349	1	Bracket	

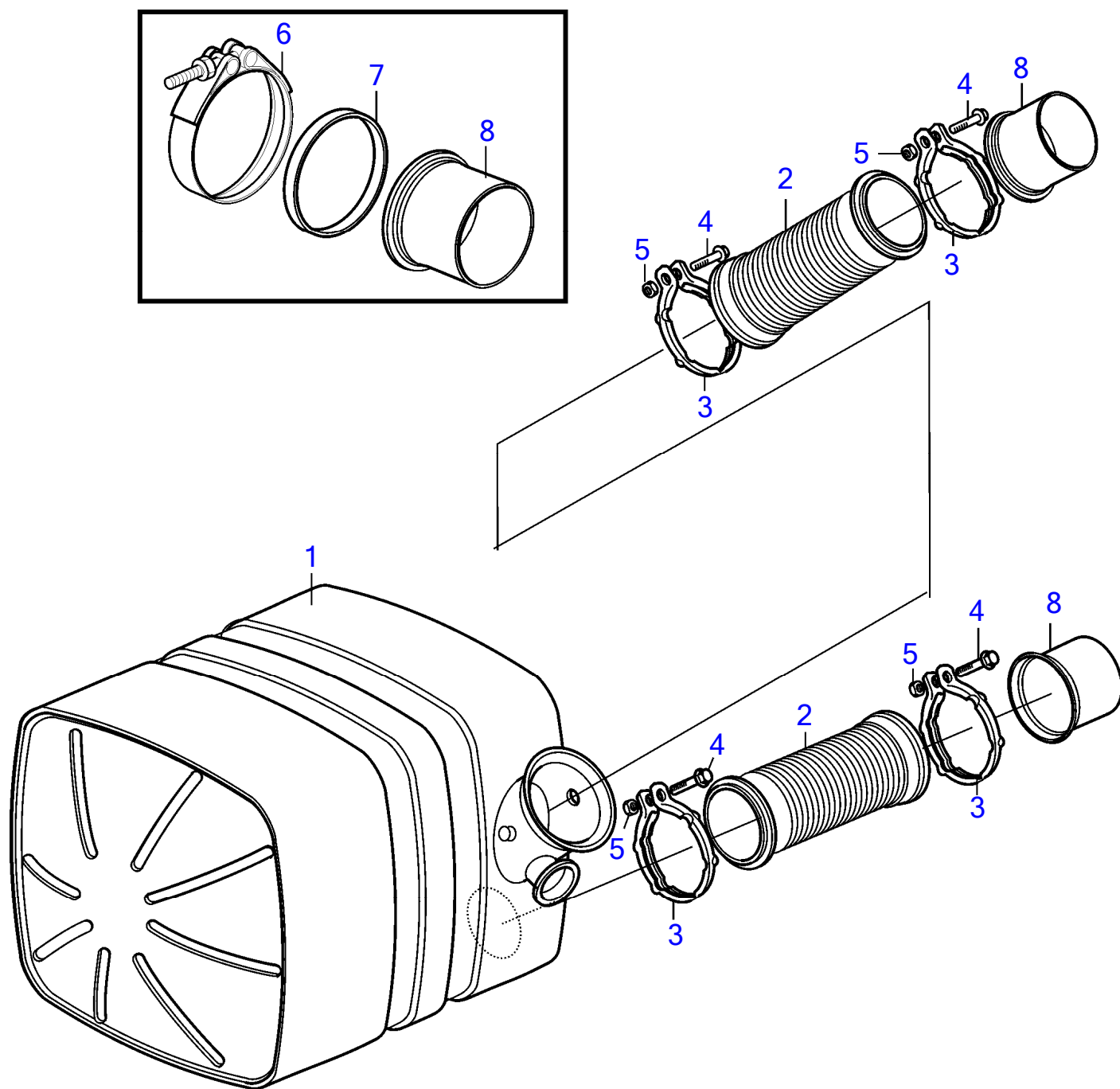


Ref	Part No.	Qty	Description	Notes
1	20750480	1	Solenoid valve, tank, heater	Replaced by solenoid 21314741 and connector 20805109
	21314741	1	Solenoid valve, tank, heater	
2	20805109	2	Quick coupling	For solenoid 21314741
3	20767833	1	Bracket	
4	984725	4	Flange screw	
5	21046544	1	Sensor, humidity/temperature	
6	21412472	1	Temperature sensor	
7	21244501	1	Sensor, exhaust	
8	21234247	1	Dosage valve	9 kg/h
9	21390063	1	Temperature sensor	
10		2	Screw	
11	21390067	1	Pressure sensor	
12		2	Screw	



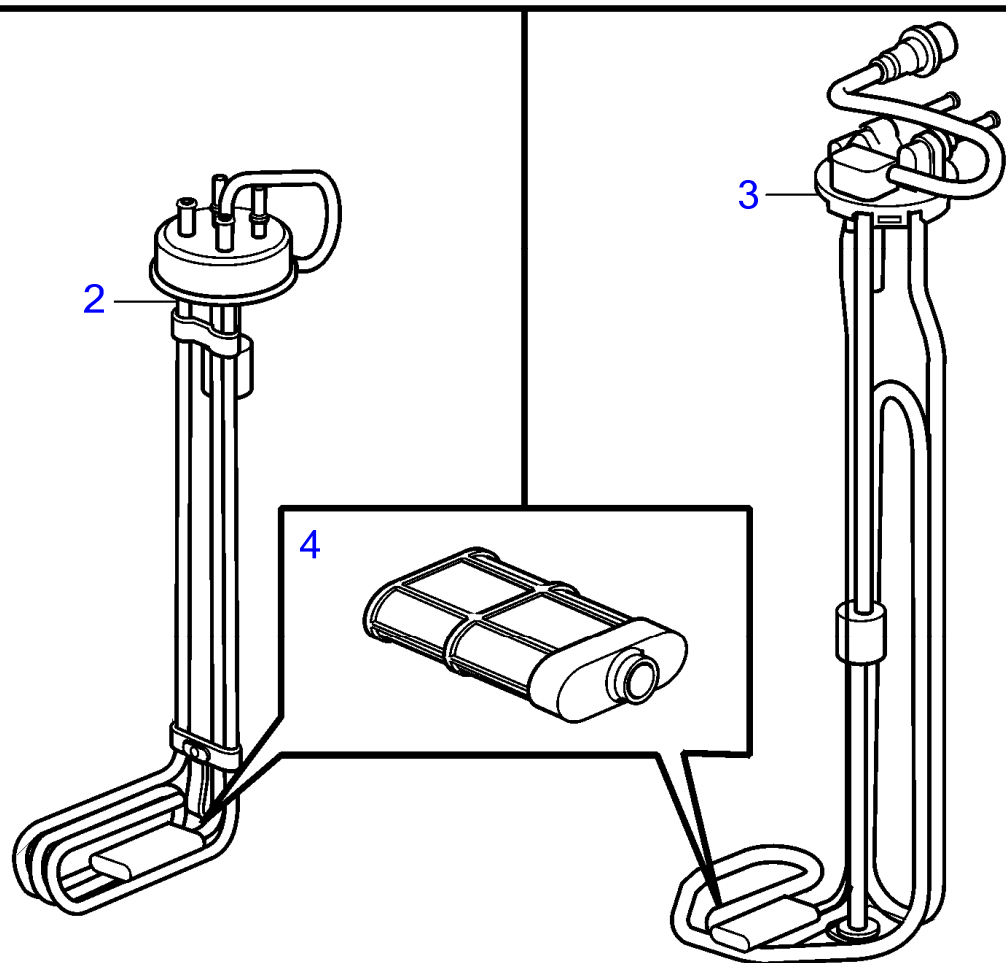
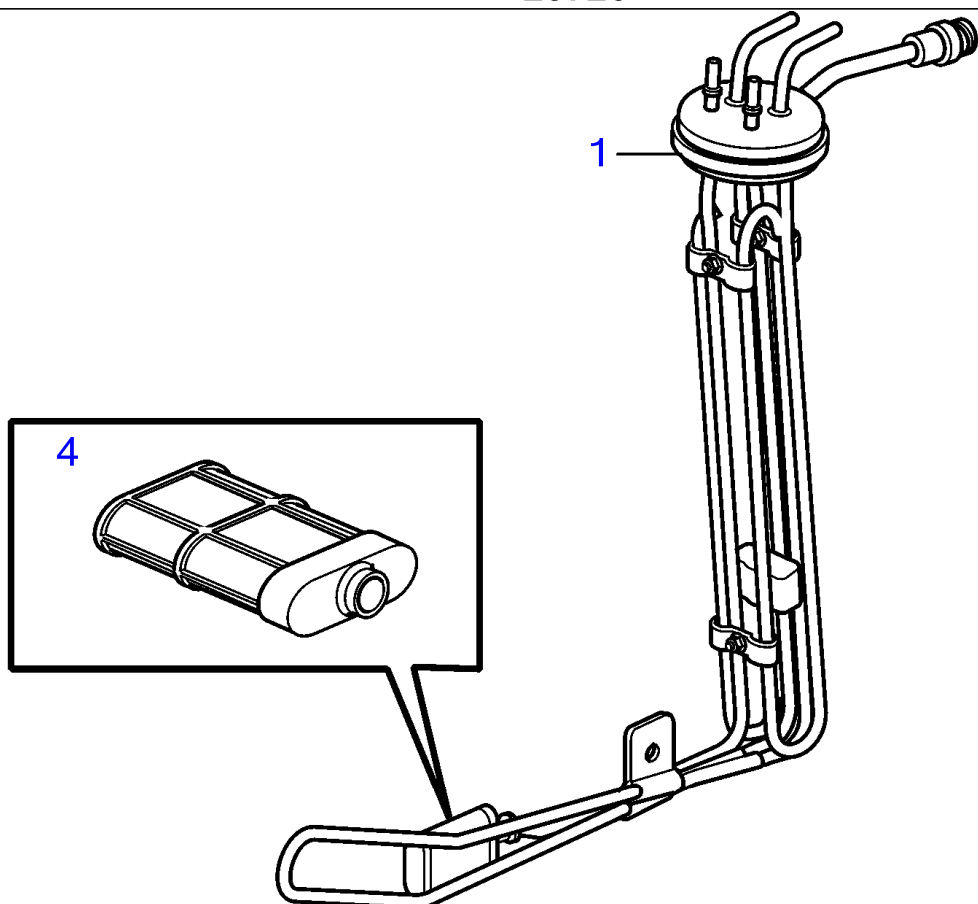
25597

Ref	Part No.	Qty	Description
1	20900170	1	Muffler
2	20709027	2	Exhaust pipe
3	1629499	4	V-clamp
4	994195	4	Flange screw
5	990941	4	Flange nut
6	21029030	1	V-clamp
7	1638168	1	Ring
8	21501664	2	Exhaust pipe

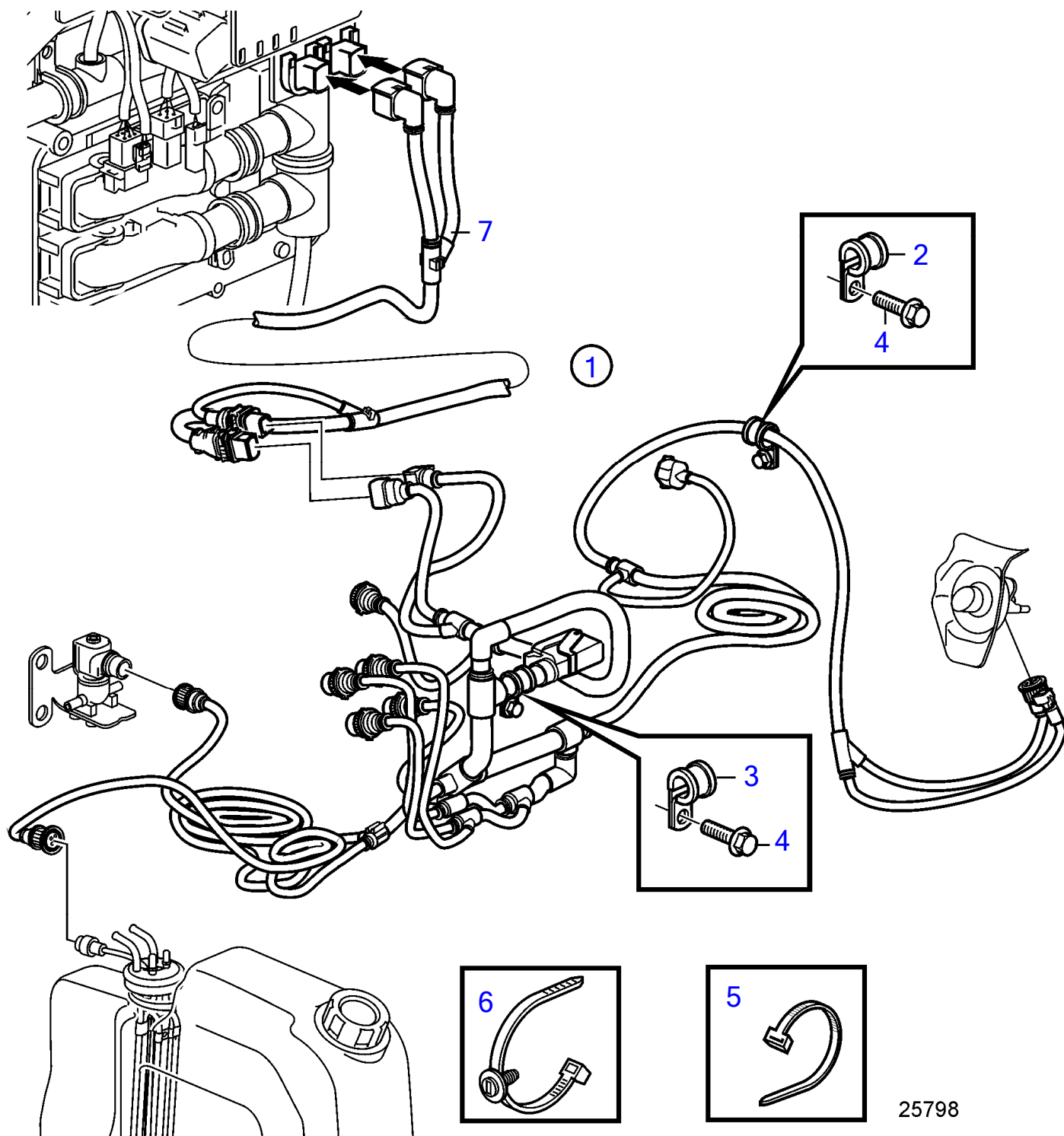


25598

Ref	Part No.	Qty	Description
1	20900166	1	Muffler
2	20709027	1	Exhaust pipe
3	1629499	4	V-clamp
4	994195	4	Flange screw
5	990941	4	Flange nut
6	21029030	1	V-clamp
7	1638168	1	Ring
8	21501664	2	Exhaust pipe

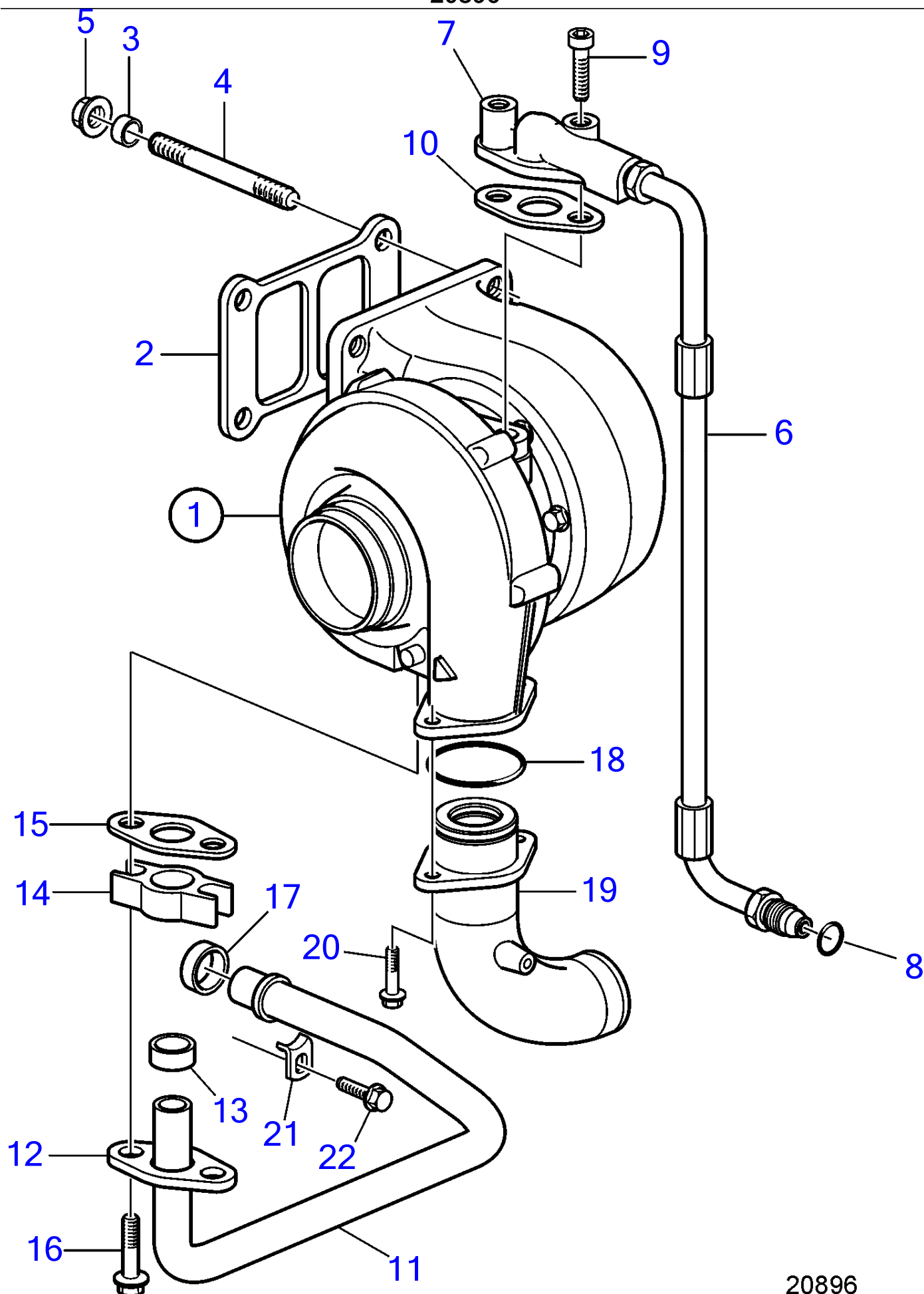


Ref	Part No.	Qty	Description	Notes
1	21073824	1	Combined tank unit	40L
2	21124970	1	Resistor	50L
3	21146950	1	Combined tank unit	70L
4	22230755	1	Filter	Replaced by 22406383, 100 My Micron
	22406383	1	Kit	40 My Micron



25798

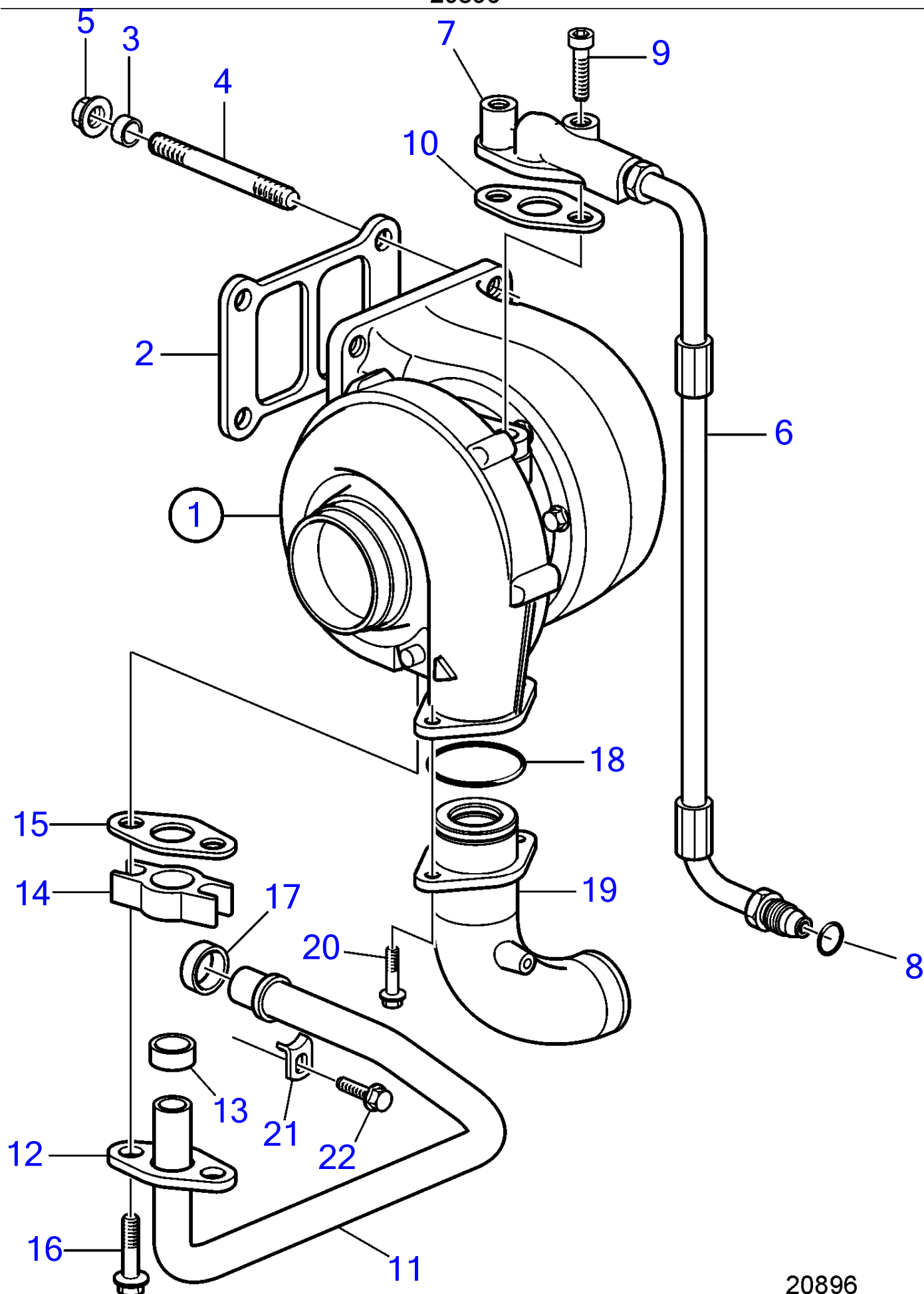
Ref	Part No.	Qty	Description	Notes
1	22957942	1	Wiring harness	
2	945081	1	Clamp	
3	947827	1	Clamp	
4	984725	2	Flange screw	
5	948211	X	Cable tie	
6	980881	X	Cable tie	
7	21932735	1	Wiring harness	L=3m
	21932800	1	Wiring harness	L=5m
	21932805	1	Wiring harness	L=7m



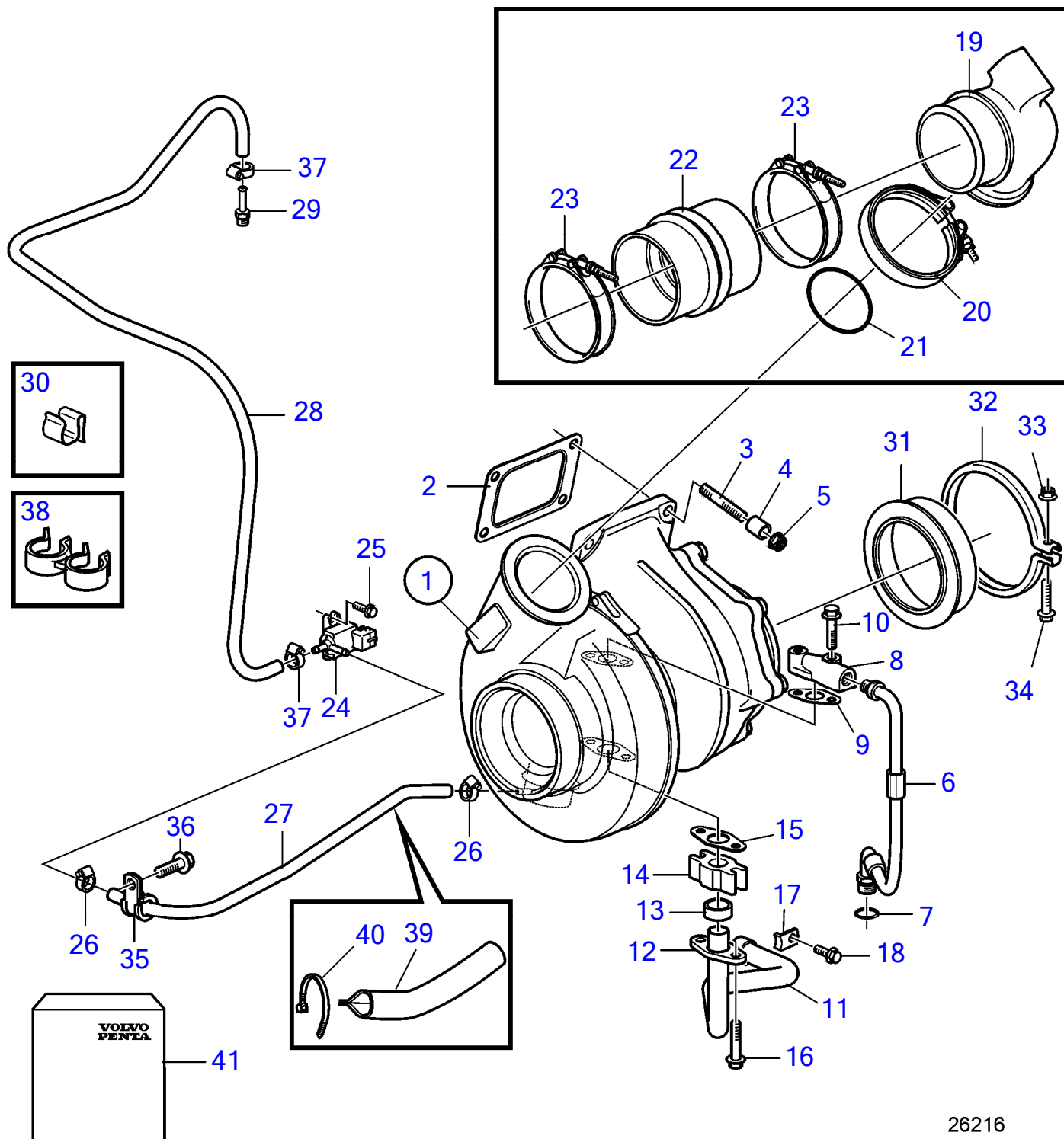
25 Turbocharger

TAD1641VE, TAD1642VE

Ref	Part No.	Qty	Description	Notes
1	3802140	1	Turbocharger	
	3837220	1	Turbocharger	
	3802140	1	Turbocharger, exch	
			parts not sold separately	
2	20784537	1	Plane gasket	(470939)
3	478344	4	Spacer sleeve	
4	20579303	4	Stud	(977299)
5	1543499	4	Flange nut	
6	3836392	1	Oil feed hose	
7	8192268	1	· Flange	
8	976971	1	· O-ring	
9	984737	2	Flange screw	
10	22206133	1	Gasket	
11	3841514	1	Return pipe	
12	469543	1	Pipe flange	
13	469601	1	Rubber moulding	
14	8148729	1	Connector	
15	21875781	1	Gasket	
16	984738	2	Flange screw	
17	1547255	1	Sealing ring	
18	948980	1	O-ring	Use together with oioe 3838234
	968052	1	O-ring	Use together with 21185876
19	3838234	1	Connecting pipe	Replaced by 21185876
	21185876	1	Connecting pipe	
20	984753	2	Flange screw	
21	1546531	1	Lock brace	
22	984733	1	Flange screw	



Ref	Part No.	Qty	Description	Notes
1	3801390	1	Turbocharger, exch	
	21310039	1	Turbocharger	
	3801390	1	Turbocharger, exch	
2	20784537	1	Plane gasket	(470939)
3	478344	4	Spacer sleeve	
4	21345127	4	Stud	(977299)
5	1543499	4	Flange nut	
6	3836392	1	Oil feed hose	
7	8192268	1	· Flange	
8	976971	1	· O-ring	
9	984737	2	Flange screw	
10	22206133	1	Gasket	
11	3841514	1	Return pipe	
12	469543	1	Pipe flange	
13	469601	1	Rubber moulding	
14	8148729	1	Connector	
15	21875781	1	Gasket	
16	984738	2	Flange screw	
17	1547255	1	Sealing ring	
18	948980	1	O-ring	Use together with 3838234
	968052	1	O-ring	Use together with 21185876
19	3838234	1	Connecting pipe	Replaced by 21185876
	21185876	1	Connecting pipe	
20	984753	2	Flange screw	
21	1546531	1	Lock brace	
22	984733	1	Flange screw	



26216

Ref	Part No.	Qty	Description	Notes
1	3801262	1	Turbocharger, exch	replaced by 3801677
	3801677	1	Turbocharger, exch, exch	
	17431000	1	Turbocharger	
	17431000	1	Turbocharger	
2	20784537	1	Plane gasket	
3	20579303	4	Stud	
4	478344	4	Spacer sleeve	
5	1543499	4	Flange nut	
6	11158484	1	Oil feed hose, pressure	
7	976971	1	· O-ring	
8	8192268	1	· Flange	
9	22206133	1	Gasket	
10	984737	2	Flange screw	
11	15160855	1	Oil return pipe	
12	469543	1	Pipe flange	
13	469601	1	Rubber moulding	
14	8148729	1	Connector	
15	20707685	1	Plane gasket	
16	984738	2	Flange screw	
17	1546531	1	Lock brace	
18	984733	1	Flange screw	
19	11158475	1	Charge air pipe	
20	3886542	1	V-clamp	
21	1675066	1	Sealing ring	
22	865127	1	Charge air hose	
23	865575	2	Hose clamp	
24	3819161	1	Solenoid valve	
25		2	Screw	
26	976573	2	Hose clamp	
27	21311243	1	Hose	
28	11158489	1	Hose	
29	945713	1	Hose nipple	
30	984937	3	Retainer	
31	3887783	1	Flange	
32	467310	1	V-clamp	
33	990950		Flange lock nut	
34	994386	1	Flange screw	
35	949746	1	Clamp	
36	984751	1	Flange screw	
37	975269	2	Hose clamp	
38	3121512	1	Retainer	
39	20711293	1	Tube	
40	983472	1	Cable tie	
41	3589673	1	Gasket kit, connection, turbo	Se group 99, Replaced by 23416780
	23416780	1	Gasket kit	

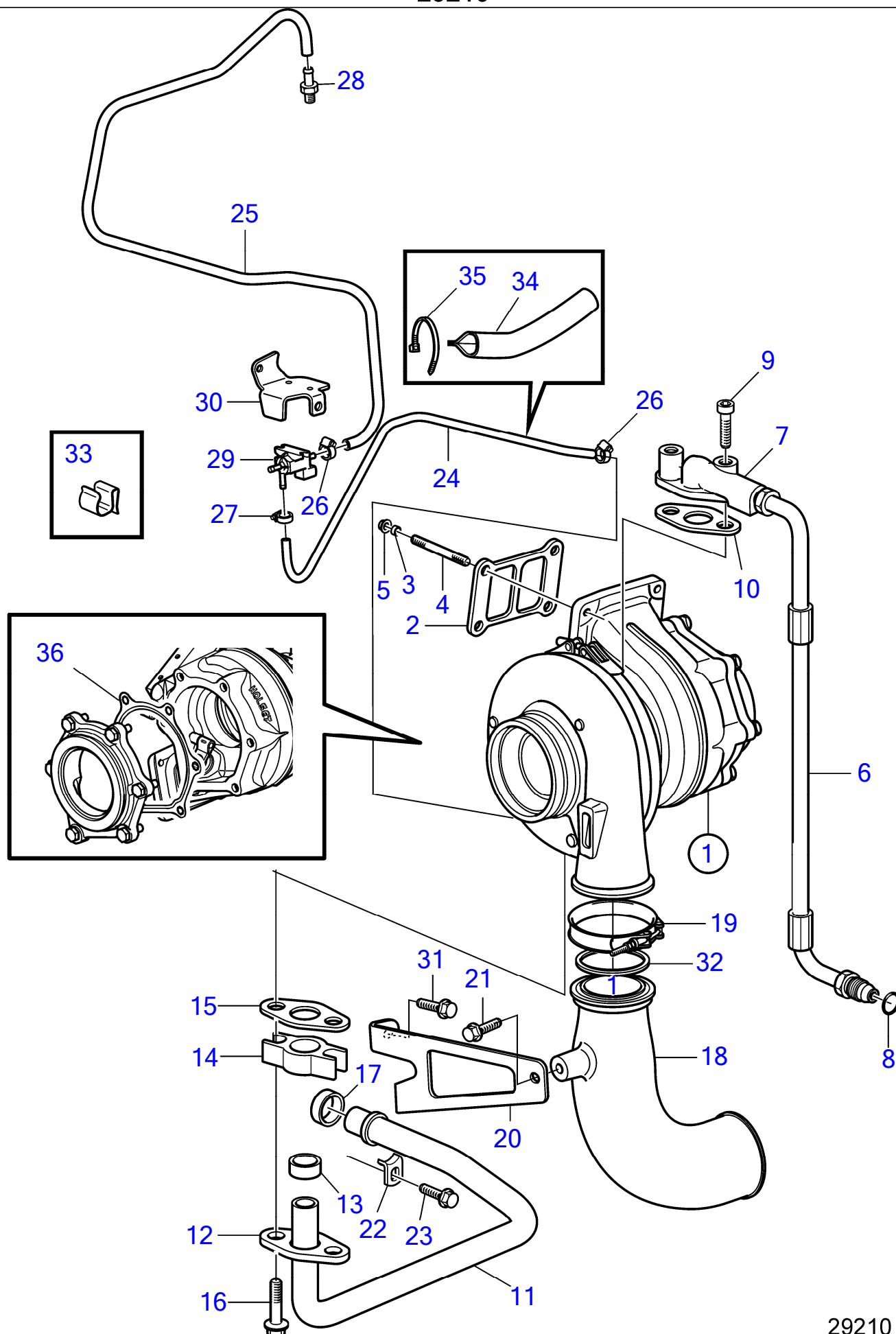
29211



25 Turbocharger

TAD1660VE, TAD1661VE, TAD1662VE, TAD1640VE-B, TAD1641VE-B, TAD1642VE-B

Ref	Part No.	Qty	Description	Notes
1	3801421	1	Turbocharger	
	21281545	1	Turbocharger	
	3801421	1	Turbocharger, exch parts not sold separately	
2	20784537	1	Plane gasket	(470939)
3	478344	4	Spacer sleeve	
4	20579303	4	Stud	(977299)
5	1543499	4	Flange nut	
6	11158484	1	Oil feed hose	
7	8192268	1	· Flange	
8	976971	1	· O-ring	
9	984737	2	Flange screw	
10	22206133	1	Gasket	
11	11158044	1	Oil return pipe	
	15160855	1	Oil return pipe	Replaced by 22929549
	22929549	1	Return pipe	
12	469543	1	Pipe flange	
13	469601	1	Rubber moulding	
14	8148729	1	Connector	
15	20707685	1	Plane gasket	
16	984738	2	Flange screw	
17	1547255	1	Sealing ring	
18	21159129	1	Connecting pipe	
19	3886542	1	V-clamp	
20	1675066	1	Sealing ring	
21	21205043	1	Bracket	
22	984734	1	Flange screw	
23	1546531	1	Lock brace	
24	984733	1	Flange screw	
25	984752	2	Flange screw	
26	20711293	1	Tube	
27	983472	1	Cable tie	
28	1266870	X	Fuel hose	L=290mm
29	975269	4	Hose clamp	
30	(978402)	2	Hose clamp	Obsolete part
31	942400	3	Clamp	
32	984733	3	Flange screw	
33	21154124	1	Pipe	
34	984937	1	Retainer	
35	1266870	X	Fuel hose	
36	21045811	1	Retainer	
37		1	Bracket	
38	3819161	1	Solenoid valve	
39	969407	2	Six point socket scr	
40	23029715	1	Gasket	Included in Turbocharger



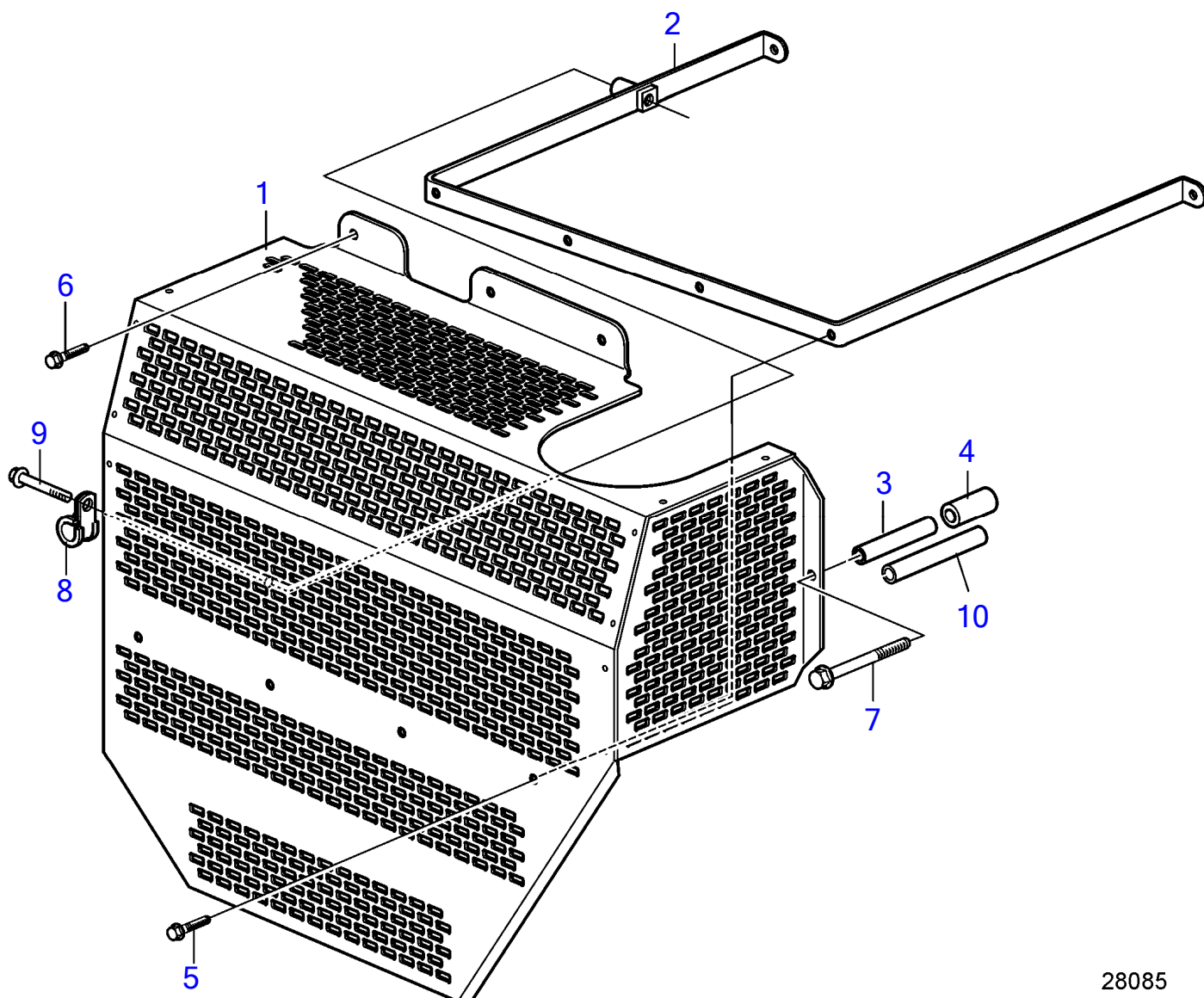
25 Turbocharger SN-2016098146

TAD1660VE, TAD1661VE, TAD1662VE, TAD1640VE-B, TAD1641VE-B, TAD1642VE-B

Ref	Part No.	Qty	Description	Notes
1	3801421	1	Turbocharger	
	21281545	1	Turbocharger	
	3801421	1	Turbocharger, exch parts not sold separately	
2	20784537	1	Plane gasket	(470939)
3	478344	4	Spacer sleeve	
4	21345127	4	Stud	(977299)
5	1543499	4	Flange nut	
6	11158484	1	Oil feed hose	
7	8192268	1	· Flange	
8	976971	1	· O-ring	
9	984737	2	Flange screw	
10	22206133	1	Gasket	
11	11158044	1	Oil return pipe	Replaced by 15160855
	15160855	1	Oil return pipe	Replaced by 22929549
	22929549	1	Return pipe	
12	469543	1	Pipe flange	
13	469601	1	Rubber moulding	
14	8148729	1	Connector	
15	20707685	1	Plane gasket	
16	984738	2	Flange screw	
17	1547255	1	Sealing ring	
18	21159129	1	Connecting pipe	Replaced by 22322833
	22322833	1	Connecting pipe	For uppgade to new solution,see section 41198,use pos 3-5,18-29 and 45
19	3886542	1	V-clamp	
20	21205043	1	Bracket	Replaced by 21866989
	21866989	1	Bracket	For uppgade to new solution,see section 41198,use pos 3-5,18-29 and 45
21	984734	1	Flange screw	
22	1546531	1	Lock brace	
23	984733	1	Flange screw	
24	21311243	1	Hose	
25	11158489		Hose	
26	993978	2	Hose clamp	
27	976573	1	Hose clamp	
28	945713	1	Hose nipple	
29	3819161	1	Solenoid valve	
30	21311241	1	Bracket	
31	984752	2	Flange screw	
32	1675066	1	Sealing ring	
33	984937	3	Retainer	
34	20711293	1	Tube	
35	983472	1	Cable tie	
36	23029715	1	Gasket	Included in Turbocharger

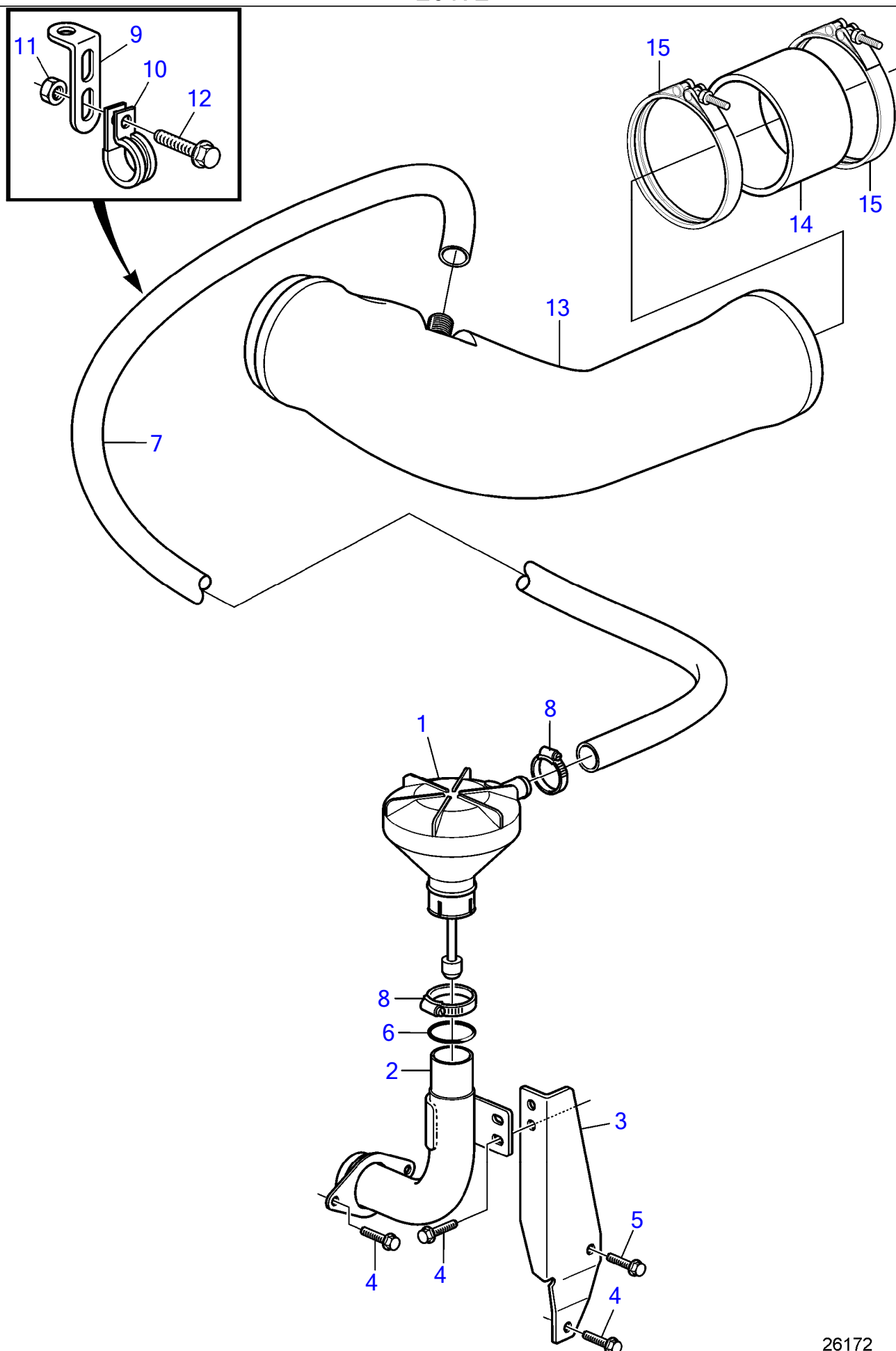


Ref	Part No.	Qty	Description	Notes
1	3801421	1	Turbocharger	
	21281545	1	Turbocharger	
	3801421	1	Turbocharger, exch	
			parts not sold separately	
2	20784537	1	Plane gasket	(470939)
3	60112113	2	Spacer sleeve	
4	21345127	4	Stud	(977299)
5	994628	4	Flange nut	
6	11158484	1	Oil feed hose	
7	8192268	1	· Flange	
8	976971	1	· O-ring	
9	984737	2	Flange screw	
10	22206133	1	Gasket	
11	11158044	1	Oil return pipe	
	15160855	1	Oil return pipe	Replaced by 22929549
	22929549	1	Return pipe	
12	469543	1	Pipe flange	
13	469601	1	Rubber moulding	
14	8148729	1	Connector	
15	20707685	1	Plane gasket	
16	984738	2	Flange screw	
17	1547255	1	Sealing ring	
18	22614800	1	Connecting pipe	
19	20592783	2	V-clamp	
20	15185107	1	Charge air hose	
21	22608053	1	Bracket	
22	984763	1	Flange screw	
23	984757	1	Flange screw	
24	984752	1	Flange screw	
25	22588011	1	Bracket	
26	984755	1	Flange screw	
27	975103	2	Flange screw	
28	22632685	1	Support	
29	994386	3	Flange screw	
30	1546531	1	Lock brace	
31	984733	1	Flange screw	
32	21311243	1	Hose	
33	11158489		Hose	
34	976573	1	Hose clamp	
35	993978	1	Hose clamp	
36	945713	1	Hose nipple	
37	3819161	1	Solenoid valve	
38	21311241	1	Bracket	
39	984937	3	Retainer	
40	20711293	1	Tube	
41	983472	1	Cable tie	
42	959187	2	Hex. socket screw	
43	984751	1	Flange screw	
44	949746	1	Clamp	
45	60112076	2	Spacer sleeve	

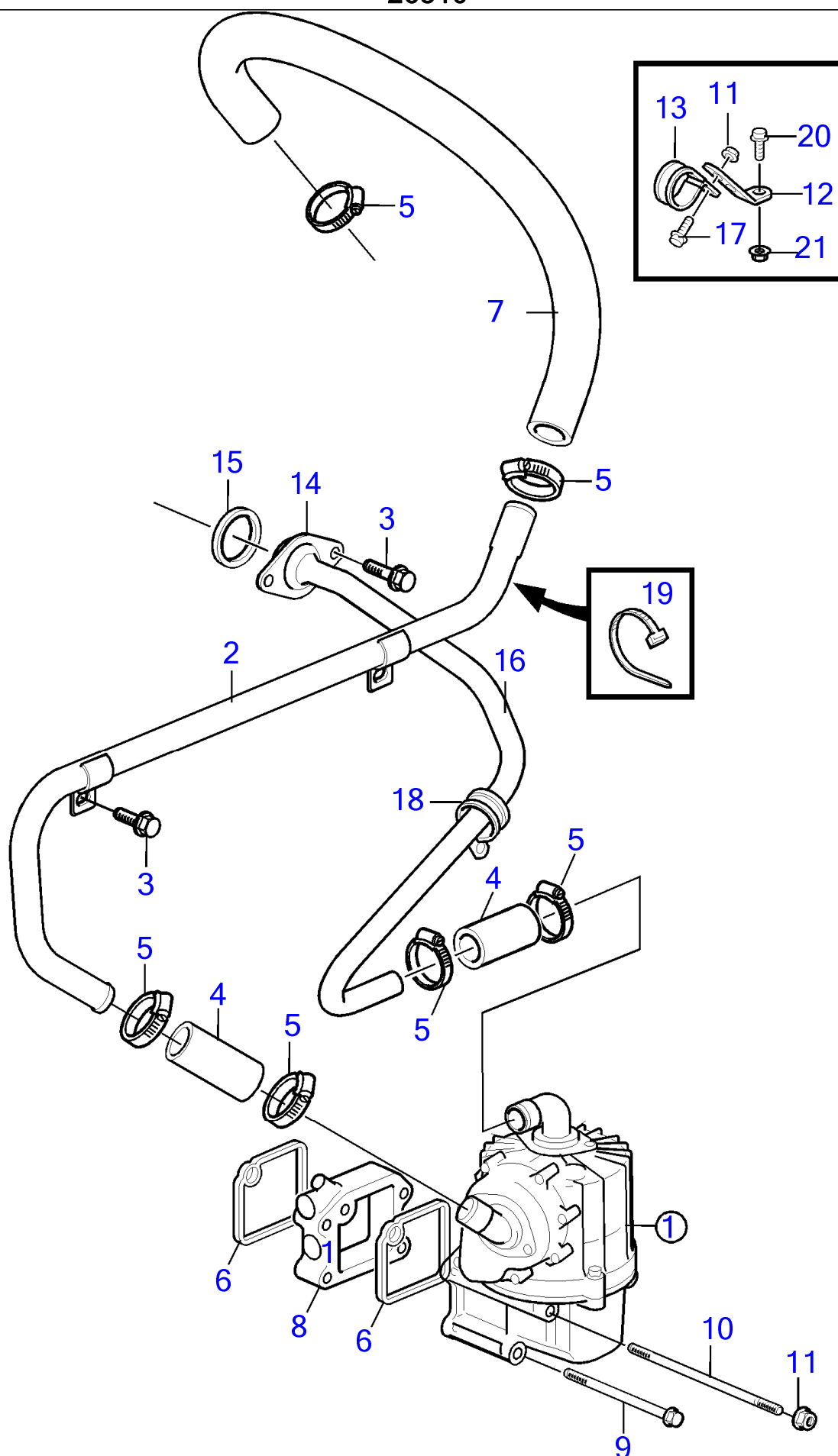


28085

Ref	Part No.	Qty	Description	Notes
1	3807766	1	Heat shield	
2	3812665	1	Bracket	
3	822791	1	Spacer sleeve	
4	3830771	1	Spacer sleeve	
5	984733	4	Flange screw	
6	984751	3	Flange screw	
7	973096	1	Flange screw	
8	942810	1	Clamp	
9	984735	1	Flange screw	
10	60111849	1	Spacer sleeve	Replacing POS 3 and 4



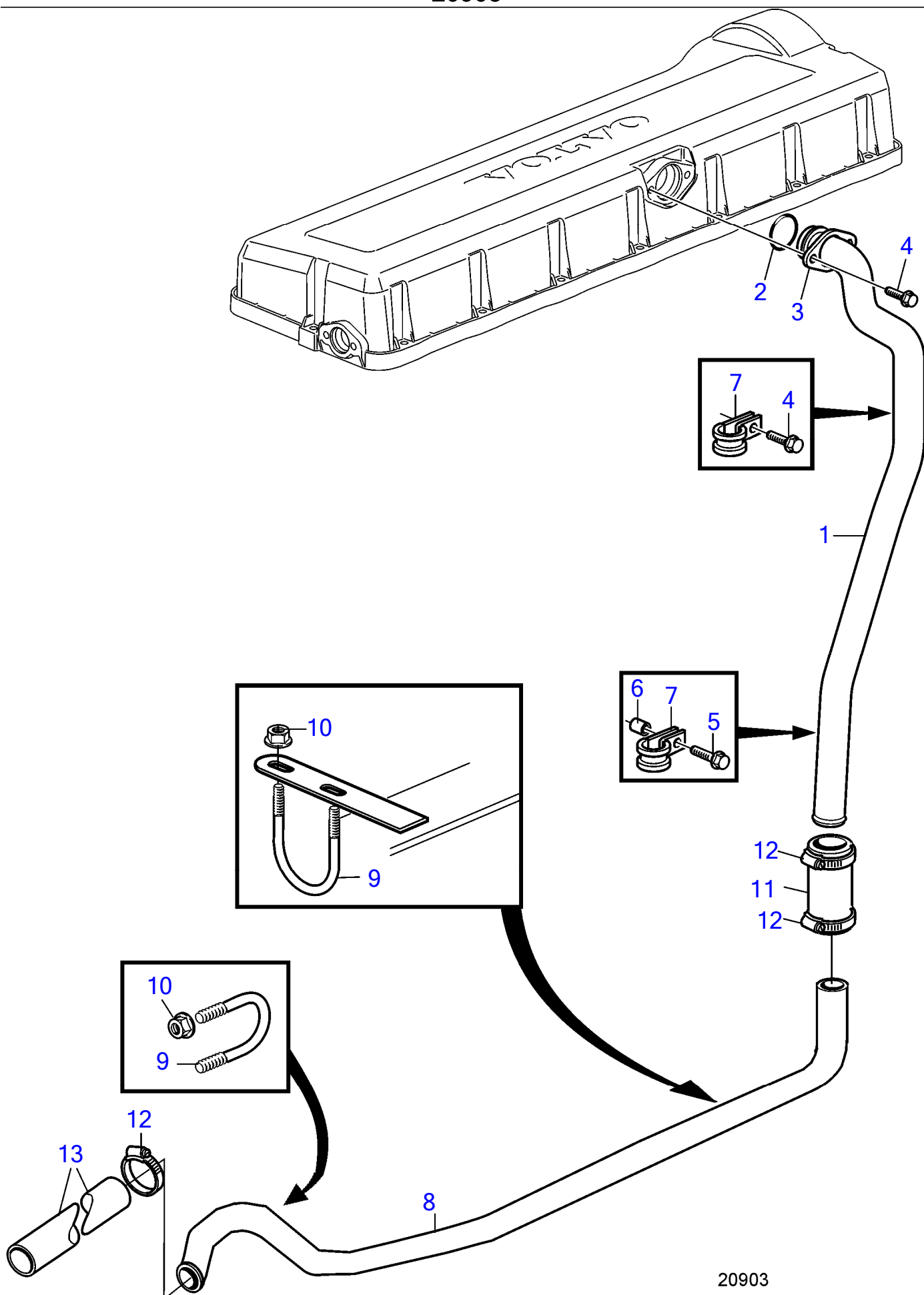
Ref	Part No.	Qty	Description	Notes
1	3825036	1	Ventilation filter	
2	3829152	1	Pipe	
3	889760	1	Bracket	
4	984733	5	Flange screw	
5	984747	1	Flange screw	
6	949722	1	O-ring	
7	942707	X	Hose	L=1.0m
8	994560	2	Hose clamp	
9	965553	1	Bracket	
10	941976	1	Clamp	
11	990940	1	Flange nut	
12	984734	1	Flange screw	
13	3838392	1	Connecting pipe	Replaced by connection pipe 21655328, rubber collar 21380418 and hose clamp 1674223
	21655328	1	Connection pipe	
14	21380418	1	Rubber collar	
15	1674223	2	Hose clamp	



25 Crankcase Ventilation, Closed

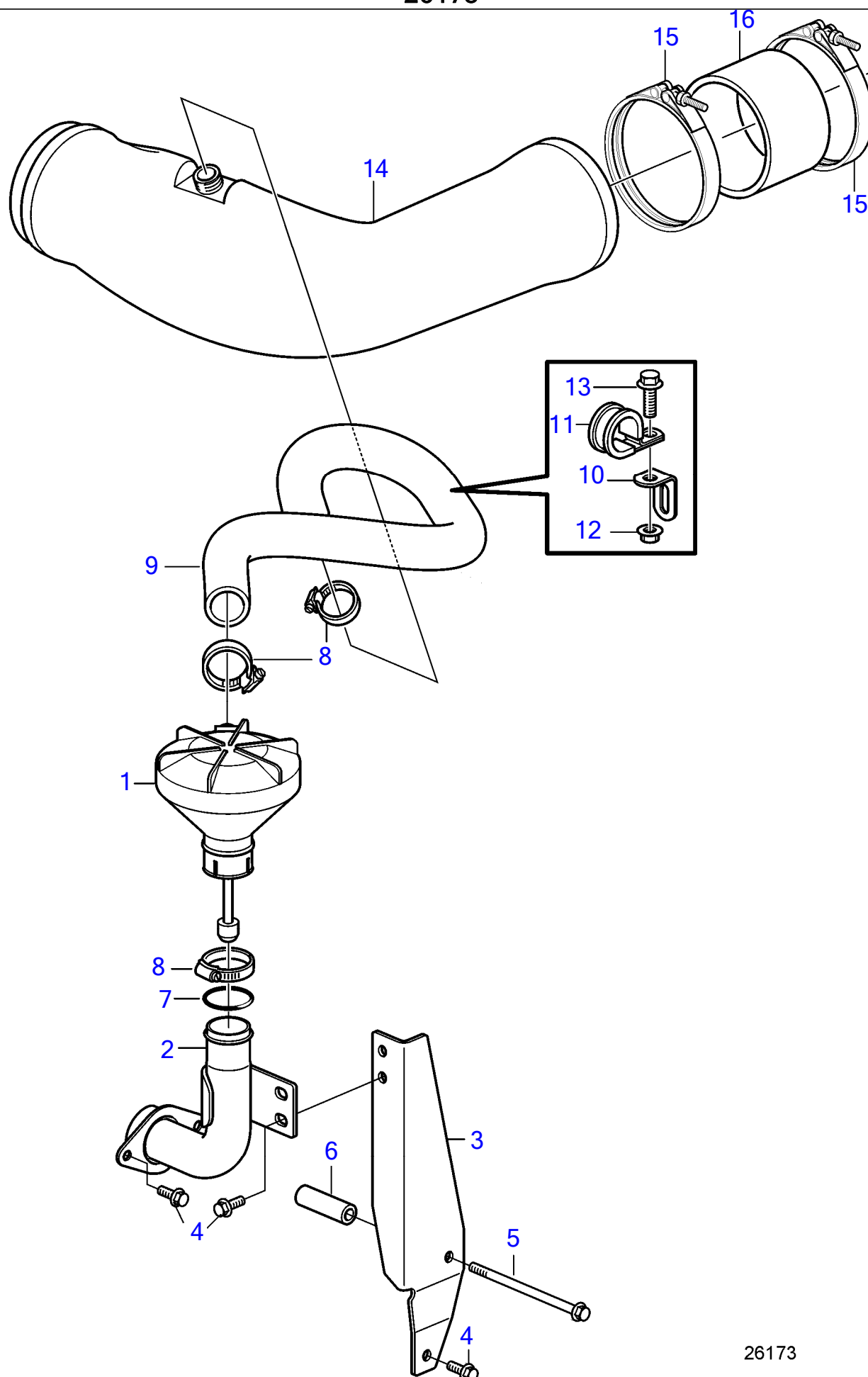
TAD1641VE, TAD1642VE

Ref	Part No.	Qty	Description	Notes
1	3848875	1	Separator	
2	3886256	1	Pipe	
3	984733	4	Flange screw	
4	20580933	2	Hose	
5	994560	6	Hose clamp	
6	20532891	2	Gasket	
7	942707	X	Hose	L=950mm
8	3883943	1	Spacer	
9	984747	2	Flange screw	
10	981440	2	Stud	
11	990940	2	Flange nut	
12	965577	1	Bracket	
13	941976	1	Clamp	
14	20519944	1	Flange	
15	20723207	1	Sealing ring	
16	21369237	1	Breather pipe	
17	984734	1	Flange screw	
18	947827	1	Clamp	
19	948211	1	Cable tie	
20	971095	1	Flange nut	
21	946329	1	Flange screw	



20903

Ref	Part No.	Qty	Description	Notes
1	20519942	1	Breather pipe	
2	20723207	1	Sealing ring	
3	20519944	1	Flange	
4	984733	3	Flange screw	
5	994386	1	Flange screw	
6	807257	1	Spacer sleeve	
7	941976	2	Clamp	
8	3809016	1	Pipe	For thrust fan.
9	3838740	2	Clamp	
10	990940	4	Flange nut	
11	3839144	1	Rubber hose	L=90mm
12	994562	3	Hose clamp	
13	3839144	1	Rubber hose	L=510mm



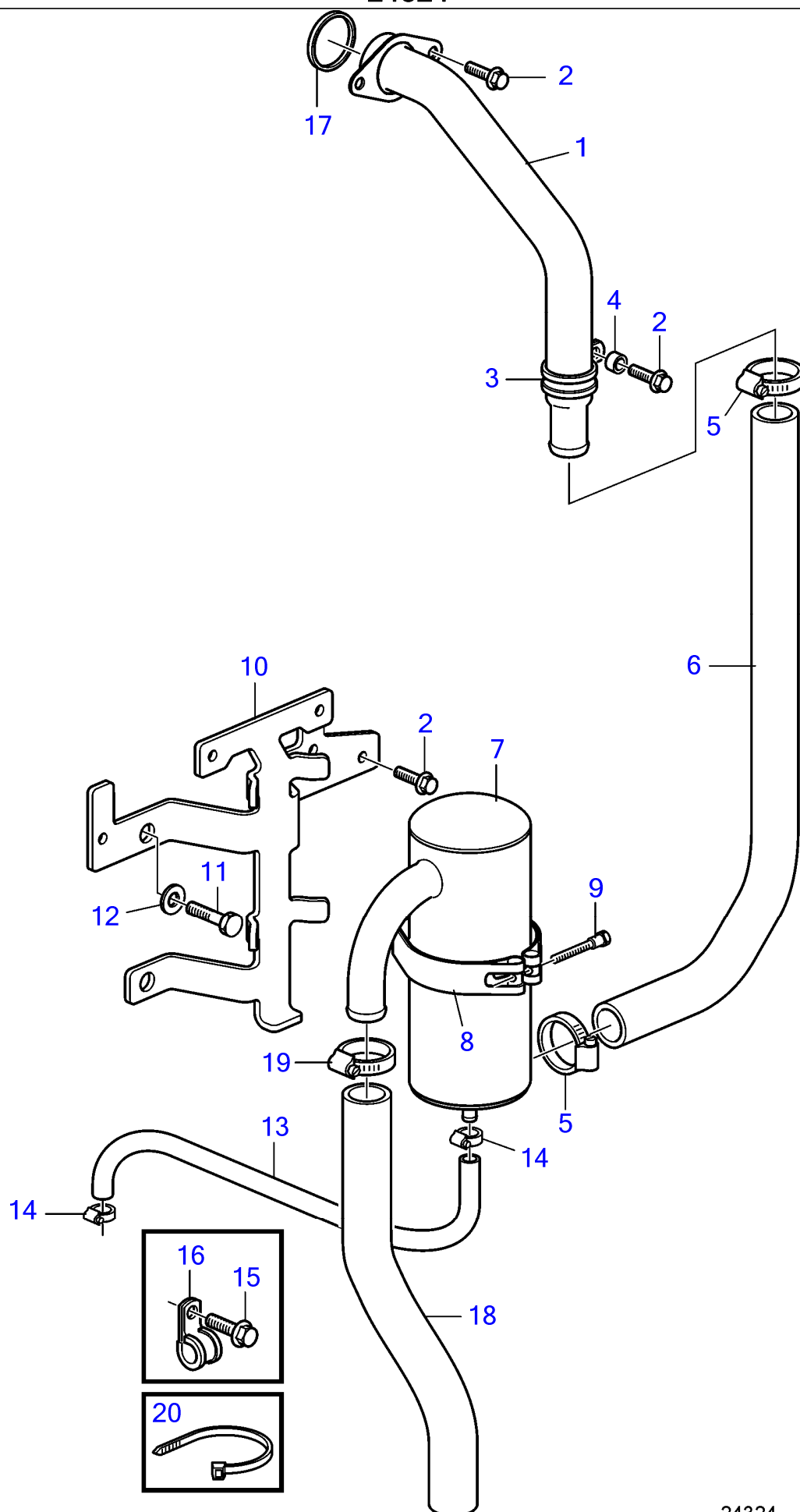
26173

25 Crankcase Ventilation, Closed
 TAD1641VE, TAD1642VE, TAD1643VE

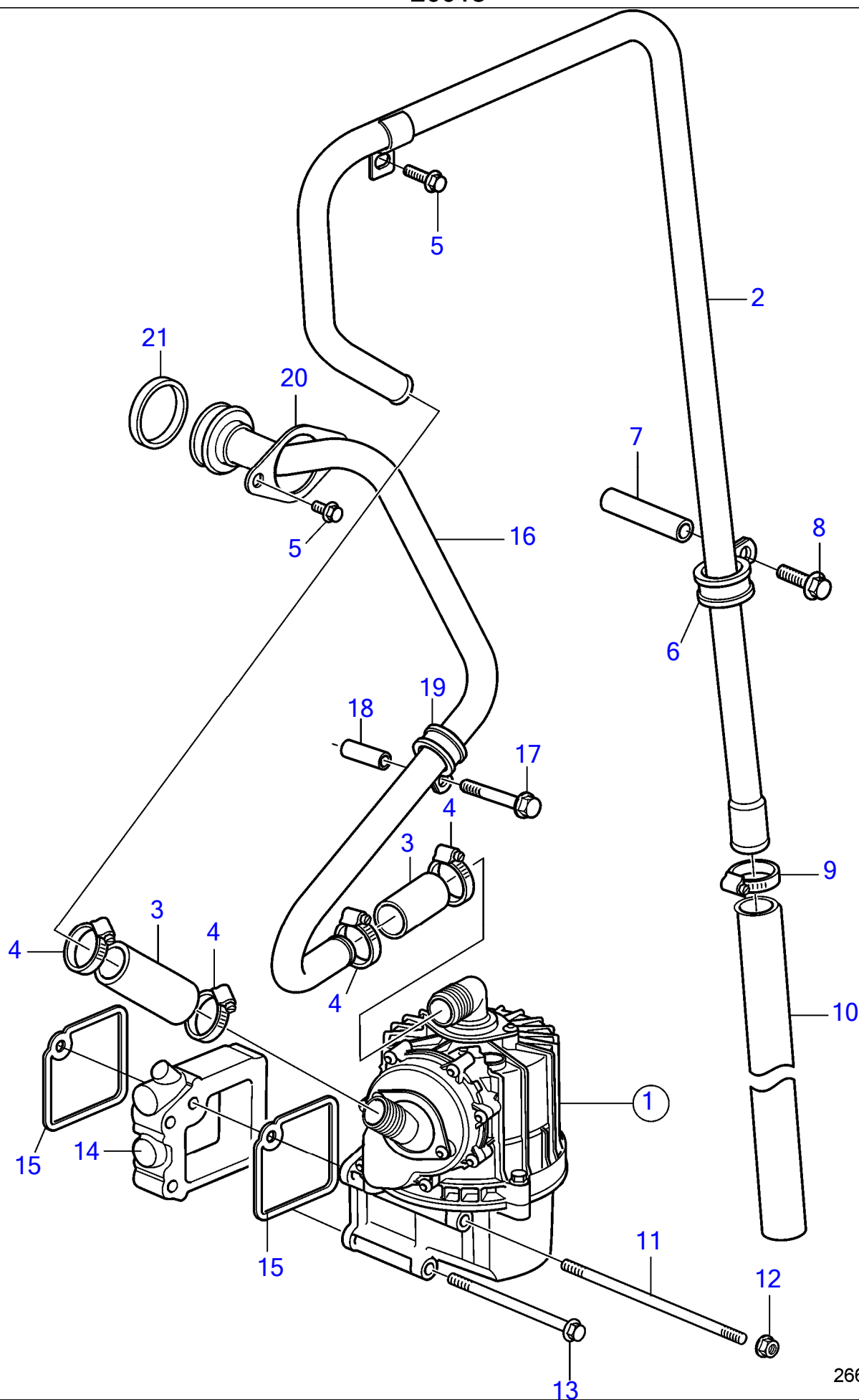
Ref	Part No.	Qty	Description	Notes
1	3825036	1	Ventilation filter	
2	3829152	1	Pipe	
3	889760	1	Bracket	
4	984733	5	Flange screw	
5	984747	1	Flange screw	
6	889760	1	Bracket	
7	949722	1	O-ring	
8	994560	3	Hose clamp	
9	942707	X	Hose	L=1.0m
10	965553	1	Bracket	
11	941976	1	Clamp	
12	990940	1	Flange nut	
13	984734	1	Flange screw	
14	3838392	1	Connecting pipe	Replaced by connection pipe 21655328, rubber collar 21380418 and hose clamp 1674223
	21655328	1	Connection pipe	
15	1674223	2	Hose clamp	
16	21380418	1	Rubber collar	



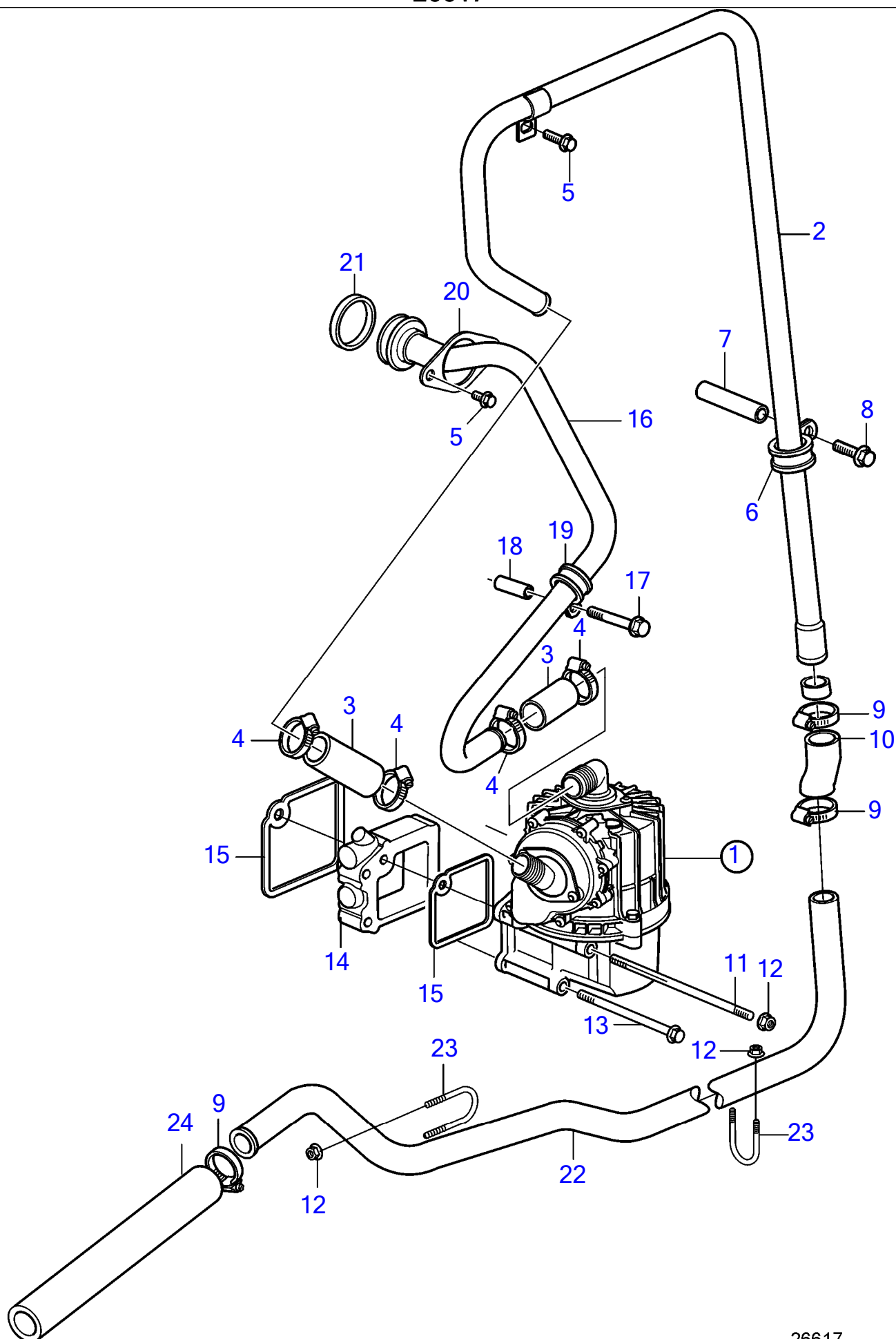
Ref	Part No.	Qty	Description
1	20532891	2	Gasket
2	3883943	1	Spacer
3	984747	2	Flange screw
4	981440	2	Stud
5	990940	2	Flange nut
6	3848875	1	Separator
7	20723207	1	Sealing ring
8	21369237	1	Breather pipe
9	947827	4	Clamp
10	20580933	2	Hose
11	994560	5	Hose clamp
12	3887104	1	Pipe
13	984725	1	Flange screw
14	994386	1	Flange screw
15	820916	1	Spacer sleeve
16	984733	2	Flange screw
17	20519944	1	Flange



Ref	Part No.	Qty	Description	Notes
1	11158406	1	Breather pipe	
2	984733	4	Flange screw	
3	941976	1	Clamp	
4	847150	1	Spacer sleeve	
5	994561	2	Hose clamp	
6	942707	X	Hose	L=650mm
7	11033878	1	Oil trap	
8	1545256	1	Tensioning band	
9	1545257	1	Shoulder screw	
10		1	Bracket	
11	(955362)	2	Hexagon screw	Obsolete part
12	941912	2	Spring washer	
13	983342	X	Hose	L=470mm
14	994556	2	Hose clamp	
15	984736	1	Flange screw	
16	949747	1	Clamp	
17	20723207	1	Sealing ring	
18	942707	X	Hose	L=700mm
19	994561	1	Hose clamp	
20	948211	1	Cable tie	



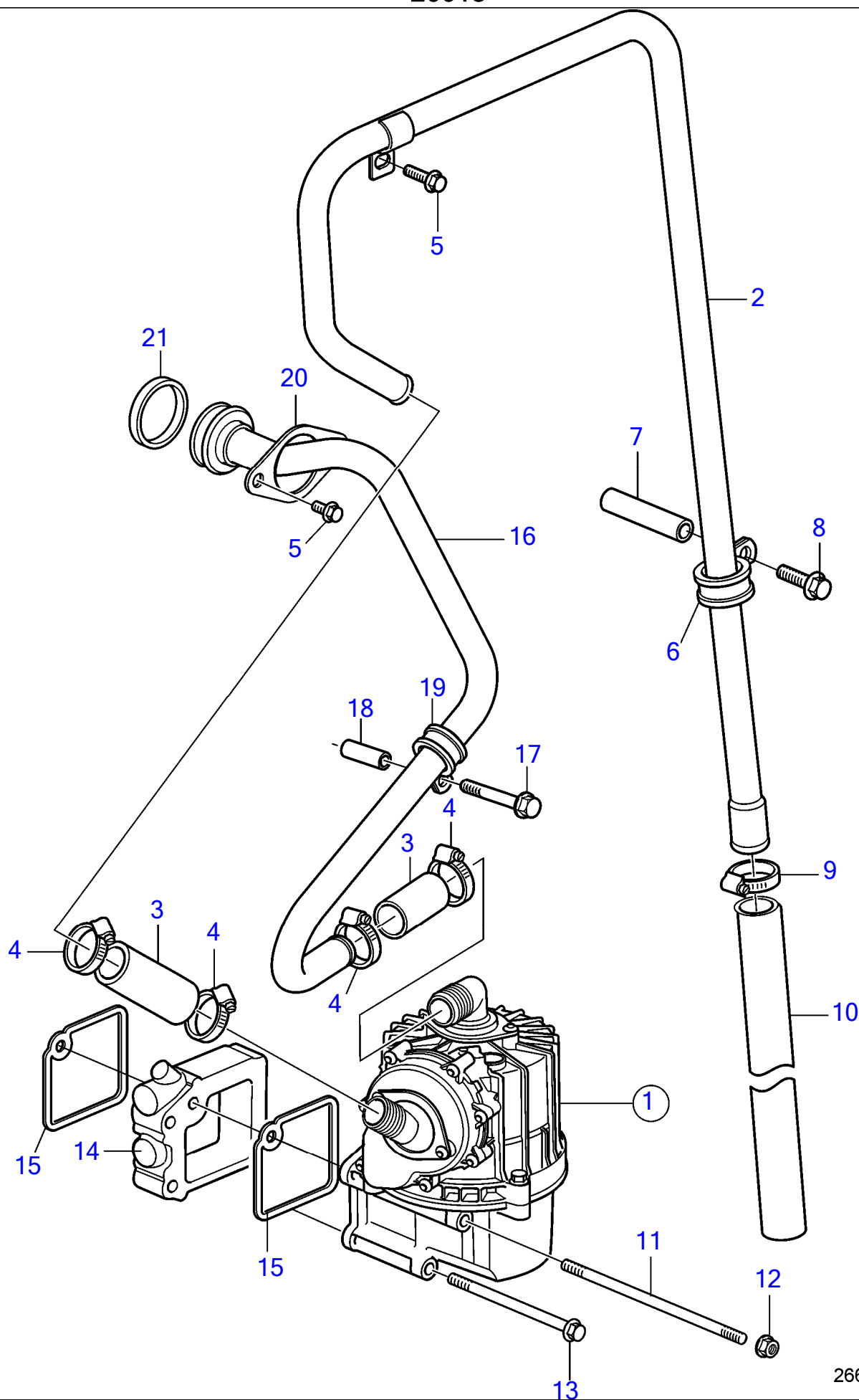
Ref	Part No.	Qty	Description
1	3848875	1	Separator
2	21361377	1	Pipe
3	20580933	2	Hose
4	994560	4	Hose clamp
5	984733	3	Flange screw
6	952635	1	Clamp
7	864072	1	Spacer sleeve
8	990402	1	Flange screw
9	994561	1	Hose clamp
10	942707	X	Hose
11	981440	2	Stud
12	990940	2	Flange nut
13	984747	2	Flange screw
14	3883943	1	Spacer
15	20532891	2	Gasket
16	21369237	1	Breather pipe
17	994386	1	Flange screw
18	820916	1	Spacer sleeve
19	947827	1	Clamp
20	20519944	1	Flange
21	20723207	1	Sealing ring



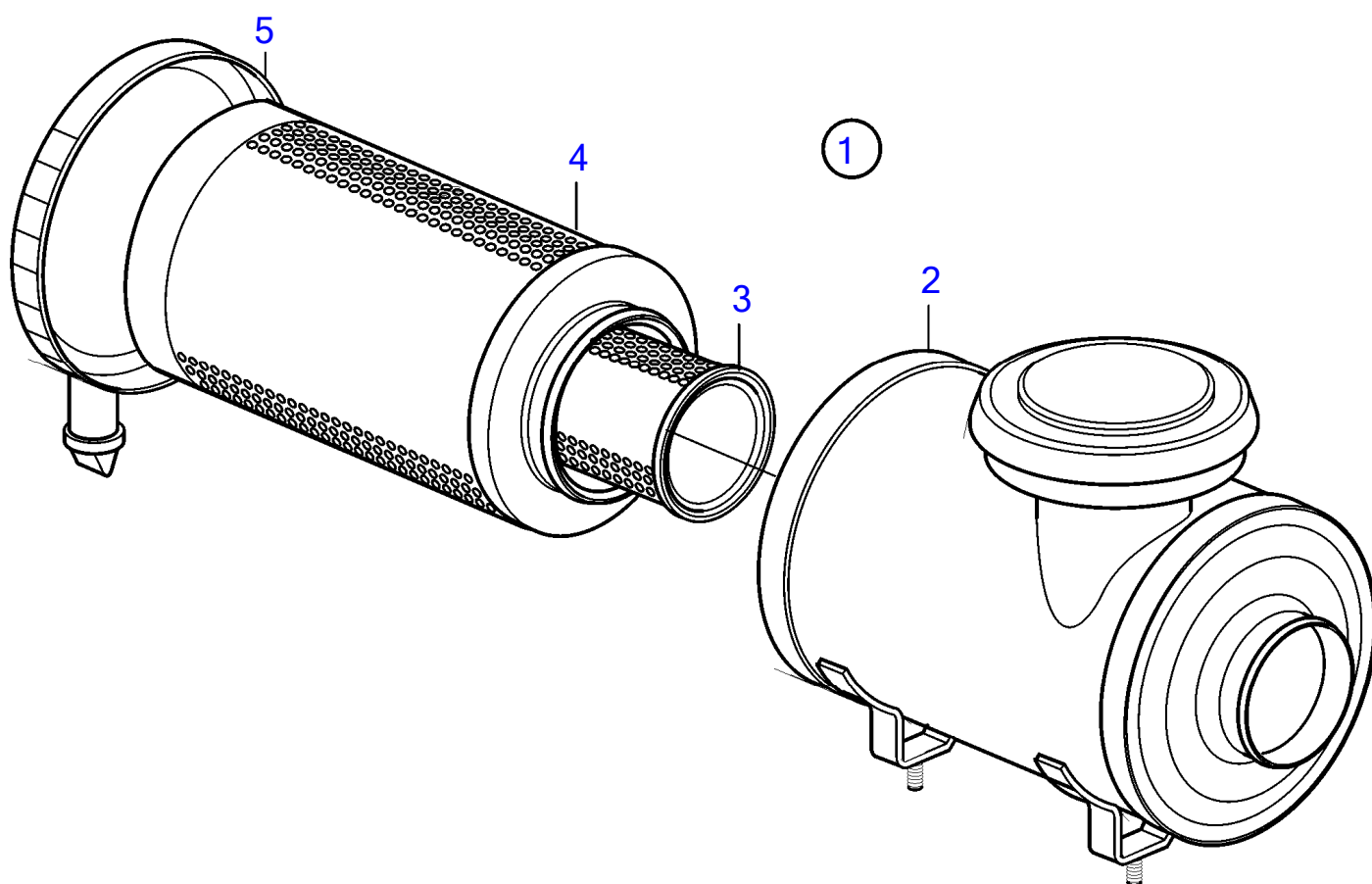
25 Crankcase Ventilation, open. Extended Outlet

TAD1640VE-B, TAD1641VE-B, TAD1642VE-B

Ref	Part No.	Qty	Description	Notes
1	21098264	1	Separator	
2	21361377	1	Pipe	
3	20580933	2	Hose	
4	994560	4	Hose clamp	
5	984733	3	Flange screw	
6	952635	1	Clamp	
7	864072	1	Spacer sleeve	
8	990402	1	Flange screw	
9	994562	3	Hose clamp	
10	942707	X	Hose	L=30mm
11	981440	2	Stud	
12	990940	6	Flange nut	
13	984747	2	Flange screw	
14	3883943	1	Spacer	
15	20532891	2	Gasket	
16	21753261	1	Breather pipe	
17	994386	1	Flange screw	
18	820916	1	Spacer sleeve	
19	947827	1	Clamp	
20	20519944	1	Flange	
21	20723207	1	Sealing ring	
22	3809016	1	Pipe	
23	3838740	2	Clamp	
24	3839144	1	Rubber hose	L=510mm



Ref	Part No.	Qty	Description
1	21098264	1	Separator
2	21361377	1	Pipe
3	20580933	2	Hose
4	994560	4	Hose clamp
5	984733	3	Flange screw
6	952635	1	Clamp
7	864072	1	Spacer sleeve
8	990402	1	Flange screw
9	994561	1	Hose clamp
10	942707	X	Hose
11	981440	2	Stud
12	990940	2	Flange nut
13	984747	2	Flange screw
14	3883943	1	Spacer
15	20532891	2	Gasket
16	21753261	1	Breather pipe
17	994386	1	Flange screw
18	820916	1	Spacer sleeve
19	947827	1	Clamp
20	20519944	1	Flange
21	20723207	1	Sealing ring

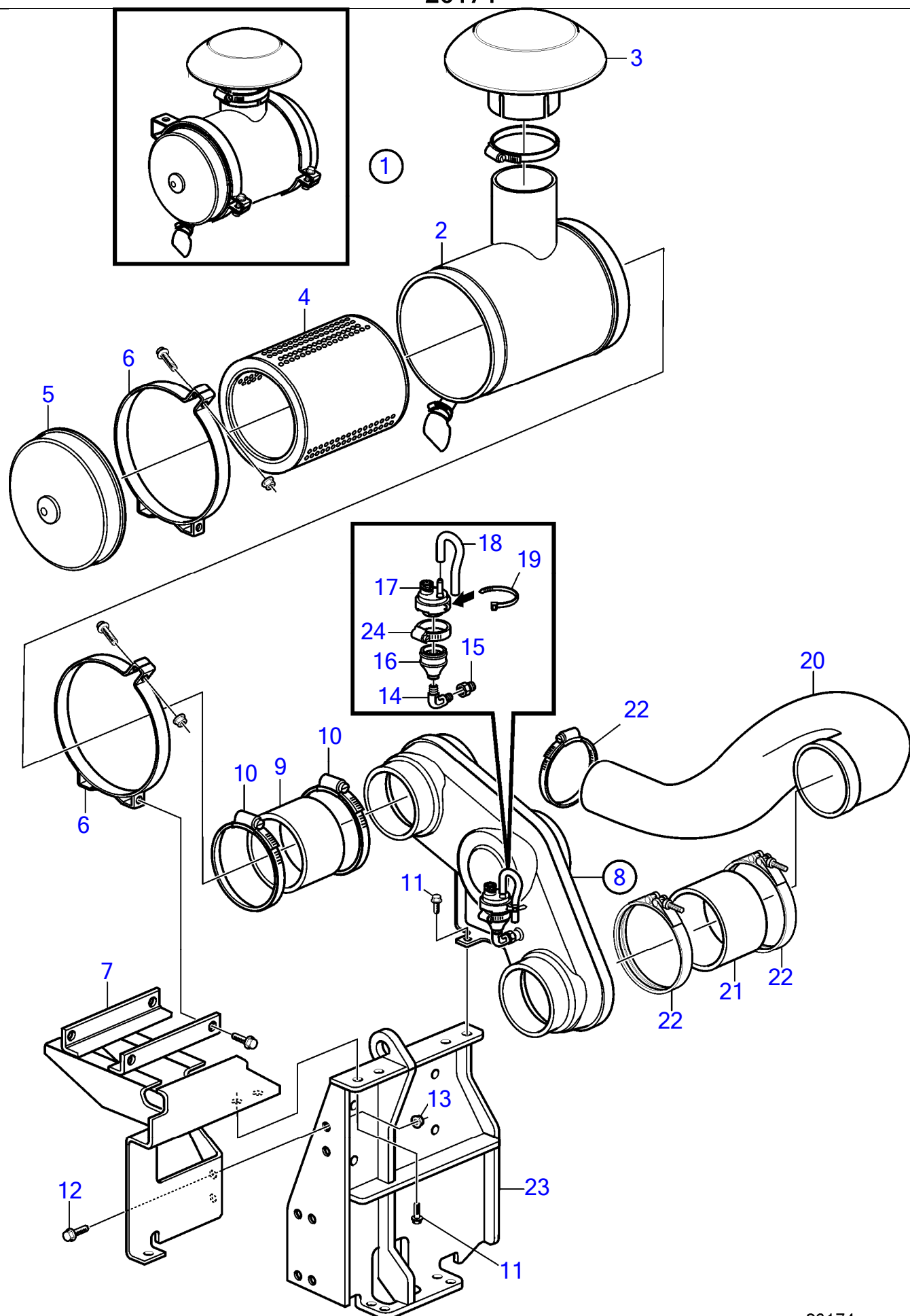


25586

25 Air Cleaner, Heavy Duty

TAD1641VE, TAD1642VE, TAD1643VE

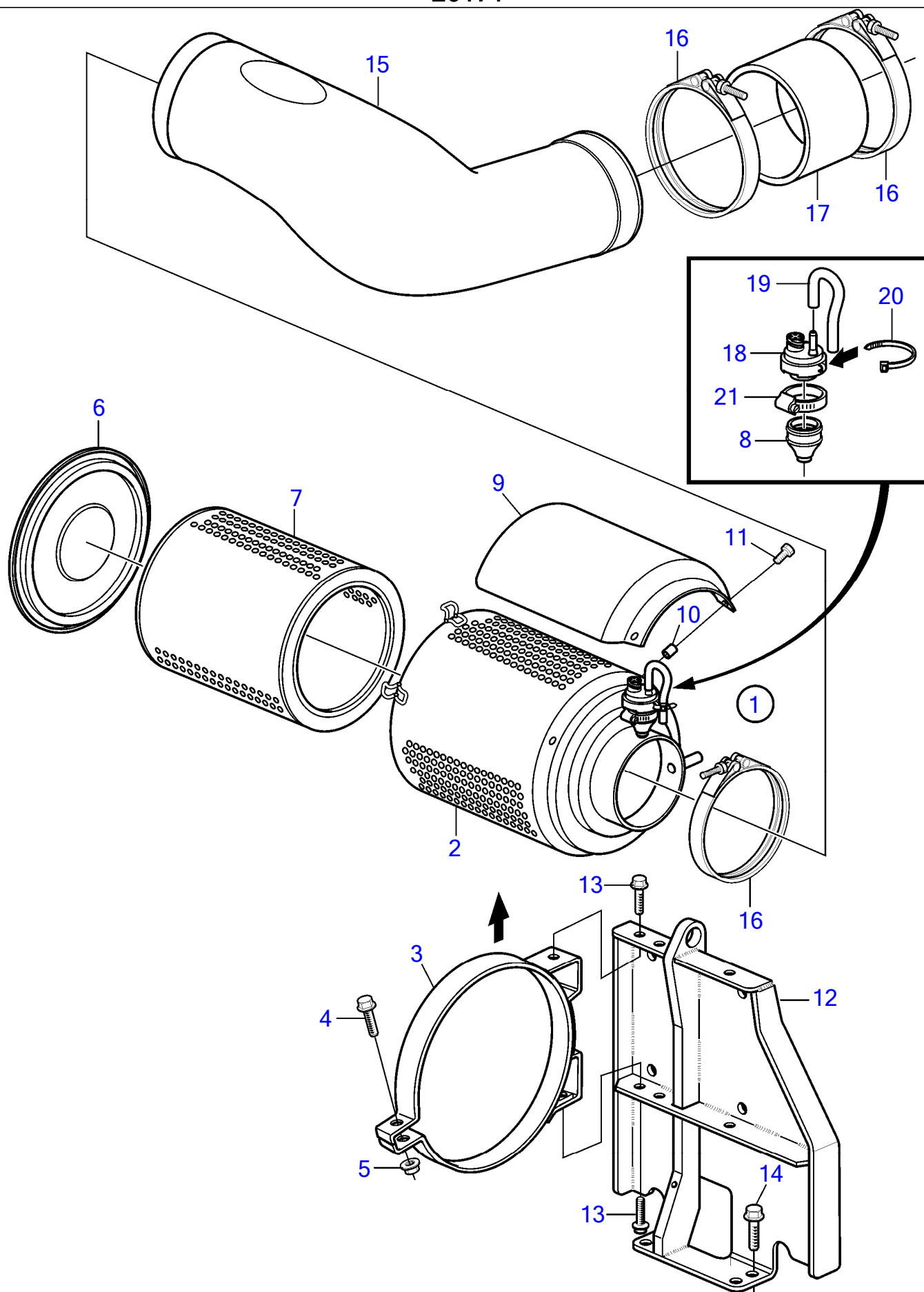
Ref	Part No.	Qty	Description	Notes
1	21359977	1	Air cleaner	
2			• Filter housing	
3	21386706	1	• Filter insert	Security effort
4	21386644	1	• Filter insert	HD-insertion
5			• Cover	



25 Air Filter with Installation Components, Medium Duty

TAD1641VE, TAD1642VE, TAD1643VE

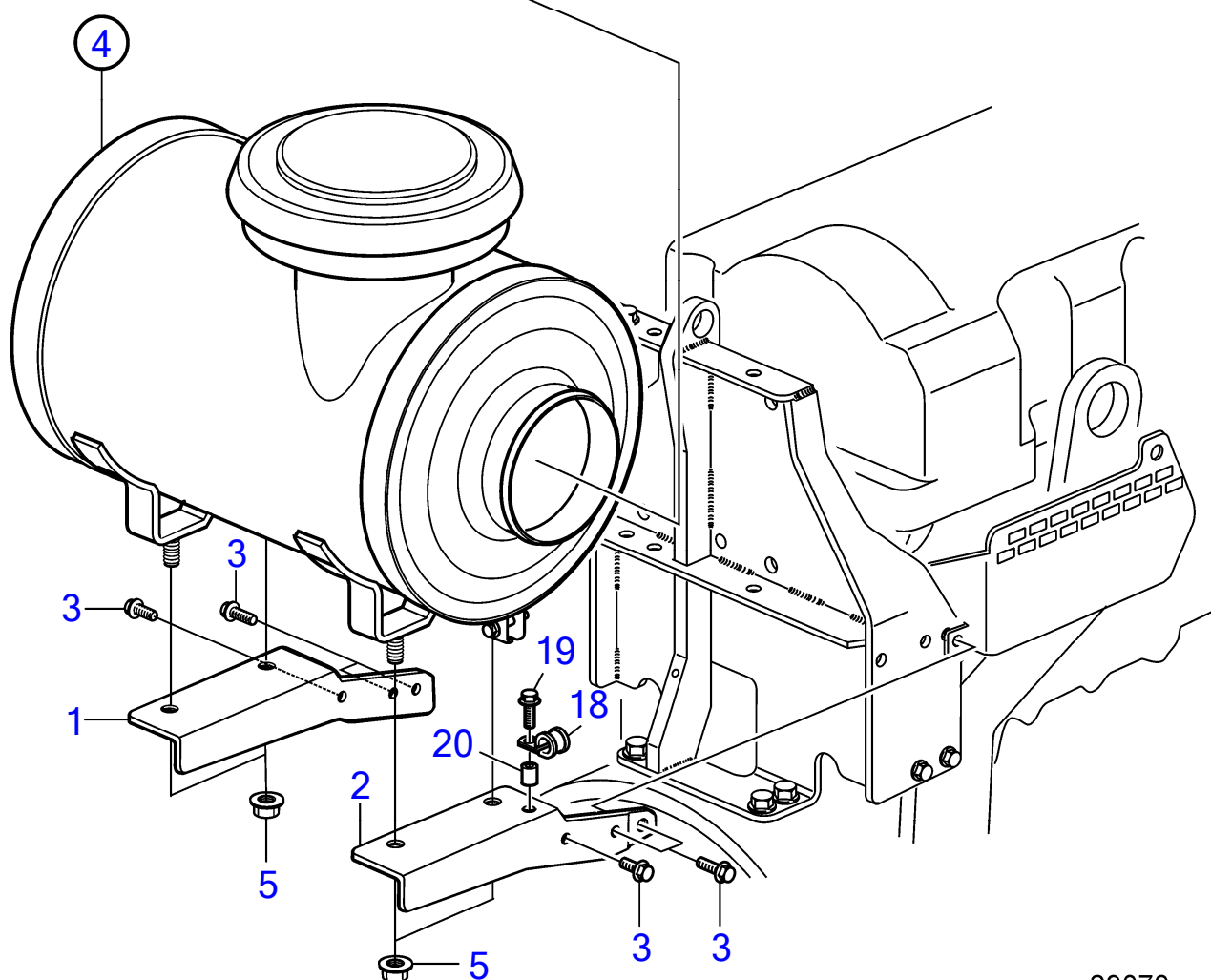
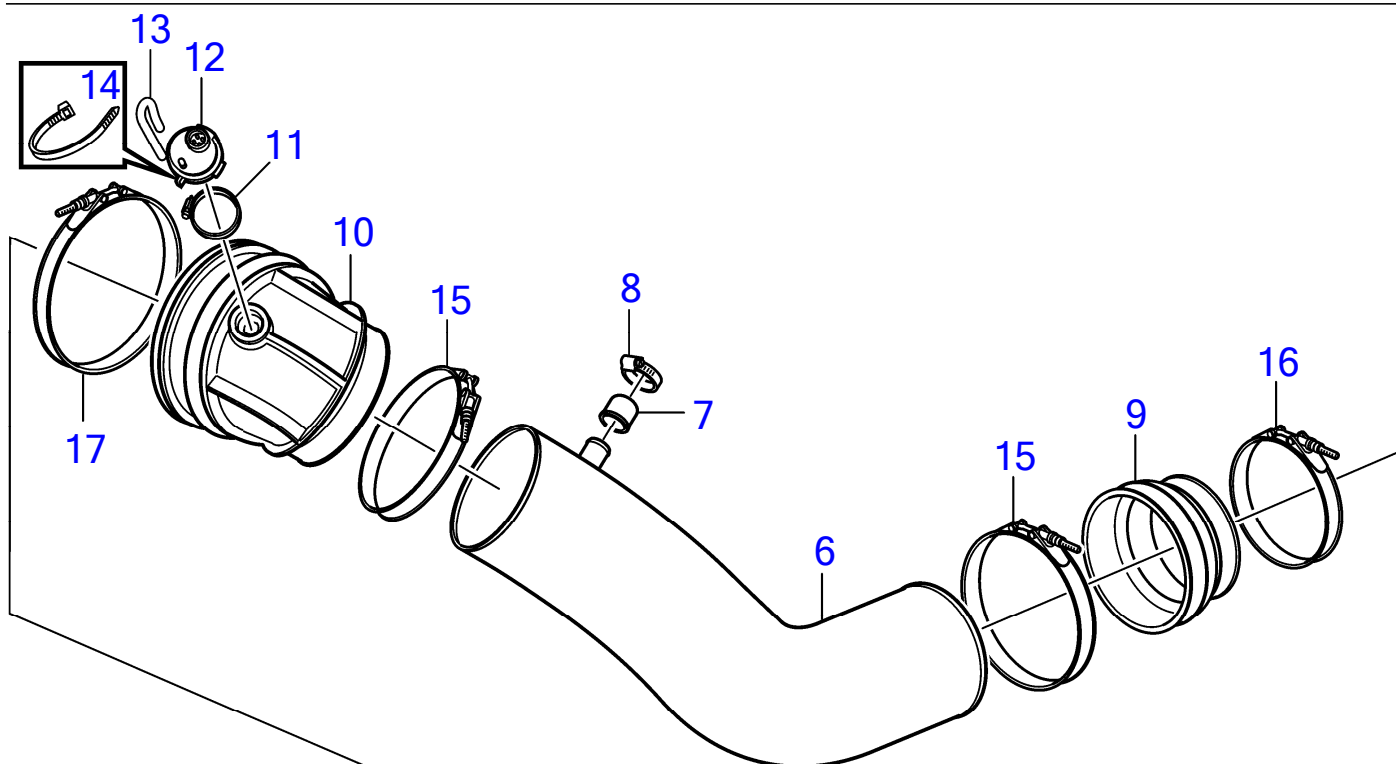
Ref	Part No.	Qty	Description	Notes
1	3829102	2	Air filter	
2		1	• Housing	
3	3837728	1	• Rain cap	
4	3839340	1	• Insert	
5		1	• Lock	
6		2	• Mounting strap	
7	3830203	1	Bracket	
8	3884346	1	Connecting pipe	(3829109)
9	3586028	2	Rubber collar	
10	943485	4	Hose clamp	
11	984753	10	Flange screw	
12	984752	2	Flange screw	
13	990941	1	Flange nut	
14	16218	1	Elbow nipple	
15	191095	1	Nipple	
16	3839145	1	Adapter	
17	20560843	1	Vacuum switch	Replaced by 22996281
	22996281	1	Vacuum switch	
18	949931	1	Hose	L=150mm
19	948702	1	Cable tie	
20	3838392	1	Connecting pipe	Replaced by connection pipe 21655328, rubber collar 21380418 and hose clamp 1674223
	21655328	1	Connection pipe	
21	21380418	1	Rubber collar	
22	1674223	2	Hose clamp	
23	3828704	1	Bracket	
24	994561	1	Hose clamp	



25 Air Filter with Installation Components, Standard

TAD1641VE, TAD1642VE, TAD1643VE

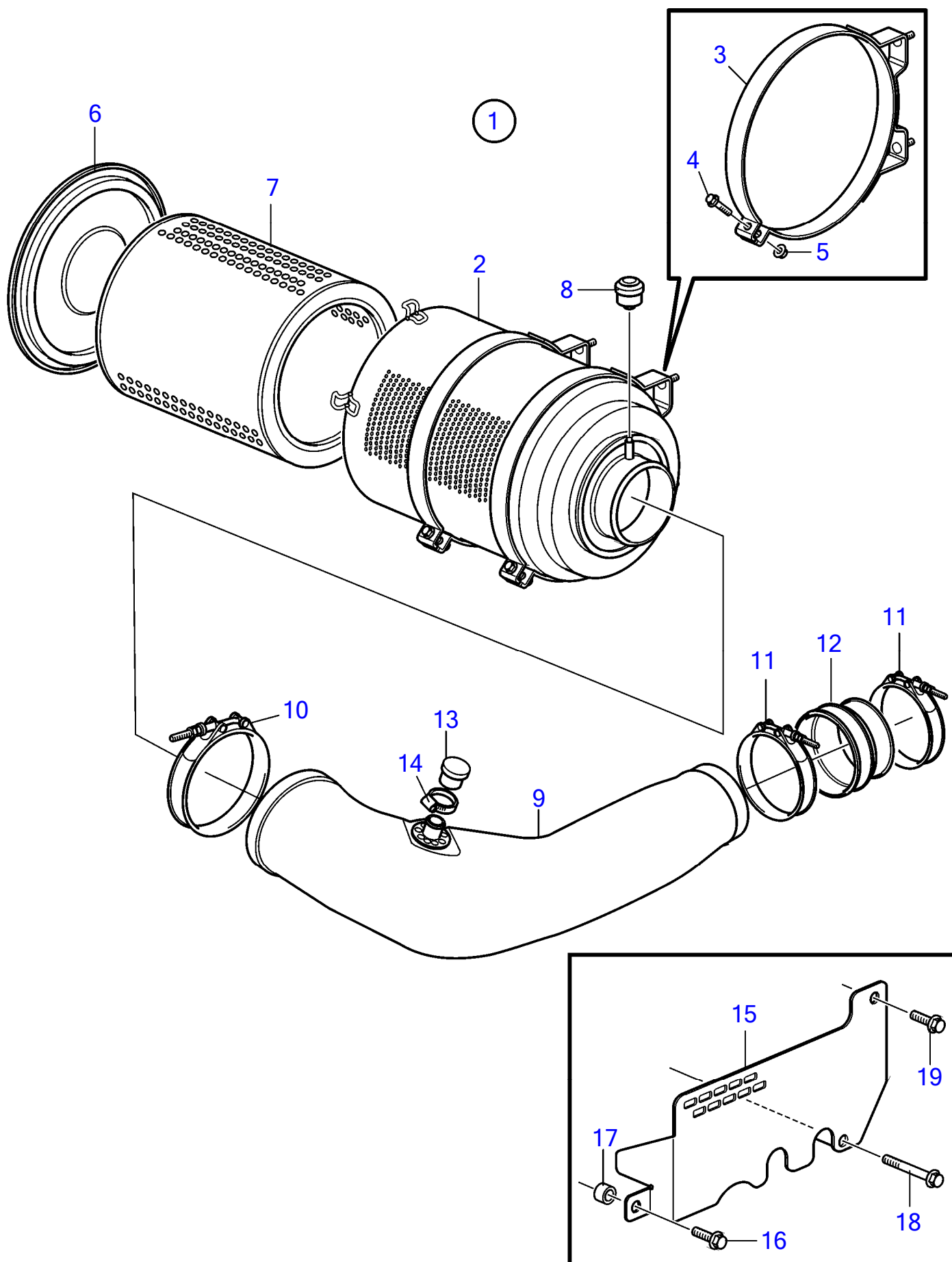
Ref	Part No.	Qty	Description	Notes
1	21186950	1	Air filter	Replaced by 21233121
	21233121	1	Air filter	
2		1	• Filter housing	
3		2	• Tensioning band	
4		2	• • Screw	
5		2	• • Nut	
6		1	• Lock	
7	21186955	1	• Insert	Replaced by 21212204
	21212204	1	• Insert	
8	3839145	1	Adapter	
9	3830971	1	Rain cap	
10	930760	4	Expanding nut	
11	984727	4	Flange screw	
12	3828704	1	Bracket	
13	984753	4	Flange screw	
14	984815	10	Flange screw	
15	3838391	1	Connecting pipe	Replaced by 1 pc connection pipe 21665682, 1 pc rubber collar 21380418 and 3 pcs hose clamp
	21665682	1	Connection pipe	
16	1674223	3	Hose clamp	
17	21380418	1	Rubber collar	
18	20560843	1	Vacuum switch	Replaced by 22996281
	22996281	1	Vacuum switch	
19	949931	X	Hose	L=150mm
20	948702	X	Cable tie	
21	994561	1	Hose clamp	



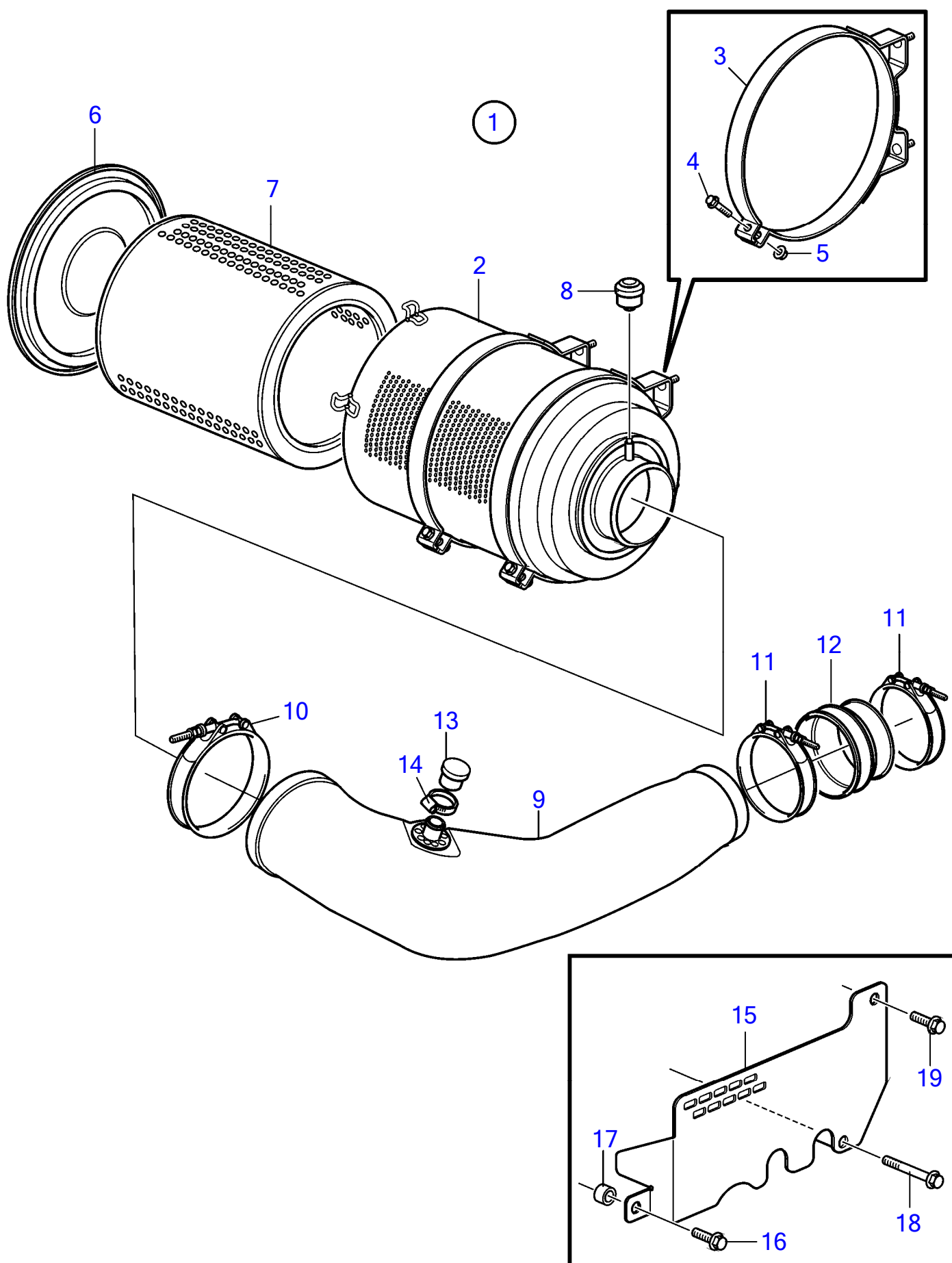
25 Air Filter with Installation Components, Heavy Duty

TAD1641VE, TAD1642VE, TAD1643VE

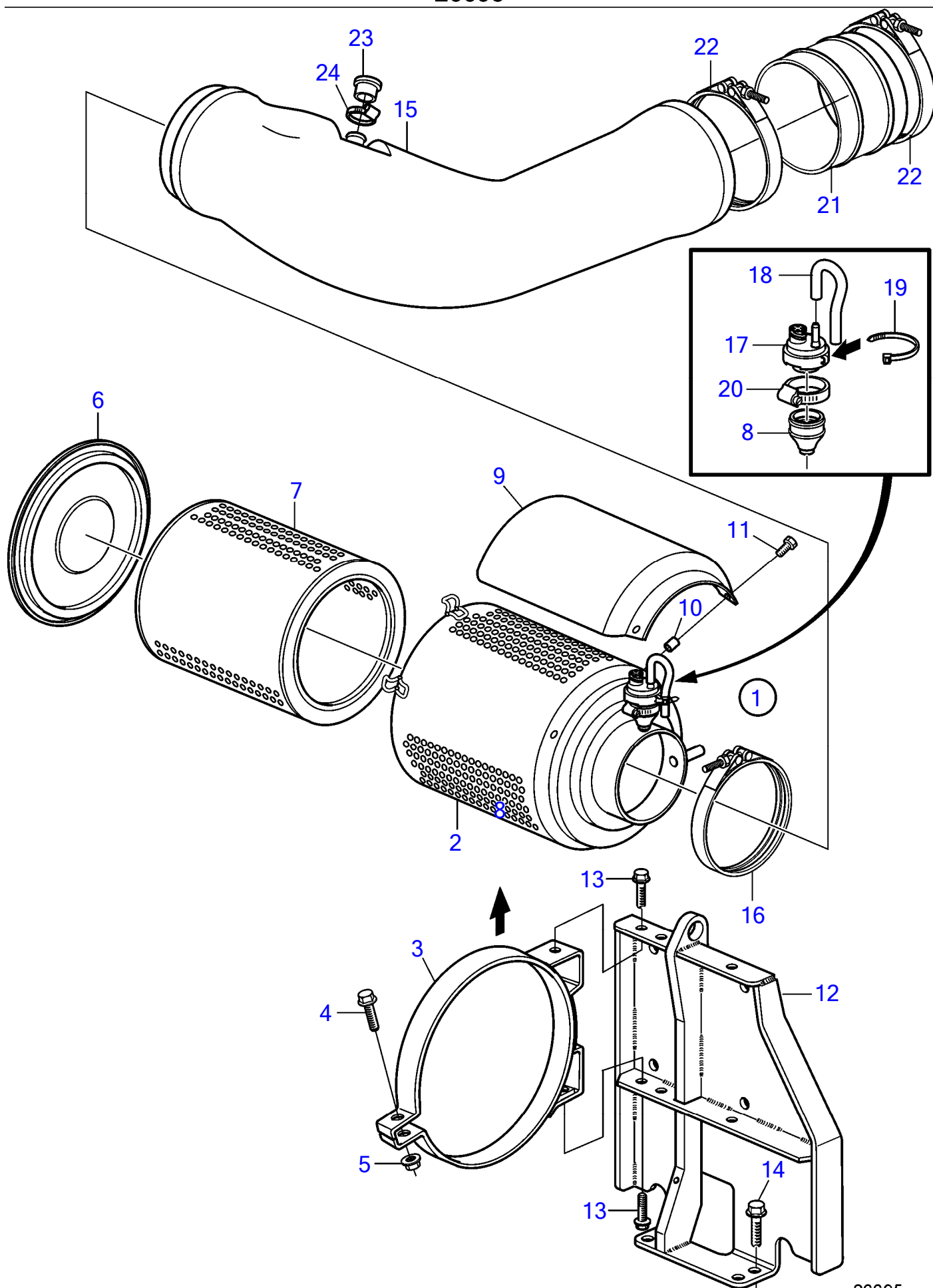
Ref	Part No.	Qty	Description	Notes
1	21377722	1	Bracket	
2	21409030	1	Bracket	
3	984816	6	Flange screw	
4	21359977	1	Air cleaner	
			.	
			.	
5	990942	4	Flange nut	
6	21381008	1	Connecting pipe	
7	845422	1	Plastic plug	(3829109)
8	994559	1	Hose clamp	
9	21380418	1	Rubber collar	
10	8149322	1	Hose	
11	994561	1	Hose clamp	
12	20560843	1	Vacuum switch	Replaced by 22996281
	22996281	1	Vacuum switch	
13	949931	X	Hose	L=150mm
14	948702	1	Cable tie	
15	1674223	2	Hose clamp	
16	1544735	1	Hose clamp	
17	4775104	1	Hose clamp	L=150mm
18	949746	1	Clamp	
19	994386	1	Flange screw	
20	807257	1	Spacer sleeve	



Ref	Part No.	Qty	Description	Notes
1	21202071	1	Air filter	Replaced by 21233119
	21233119	1	Air filter	Replaced by 23186795
	23186795	1	Air filter	
2		1	• Filter housing	
3	3831143	2	• Mounting strap	
4		2	• • Screw	
5		2	• • Nut	
6		1	• Lock	
7	21186955	1	• Insert	Replaced by 21212204
	21212204	1	• Insert	Replaced by 21702911
	21702911	1	• Air filter insert	
8	3828765	1	• Pressure drop indica	
9	21489980	1	Connection pipe	
10	1674223	1	Hose clamp	
11	1544735	2	Hose clamp	
12	21488062	1	Rubber collar	
13	845422	1	Plastic plug	
14	961668	1	Hose clamp	
15	3884787	1	Radiation shield	
16	975110	1	Flange screw	L=40mm
17	948007	1	Spacer sleeve	
18	968553	1	Flange screw	L=115mm
19	984753	1	Flange screw	L=25mm



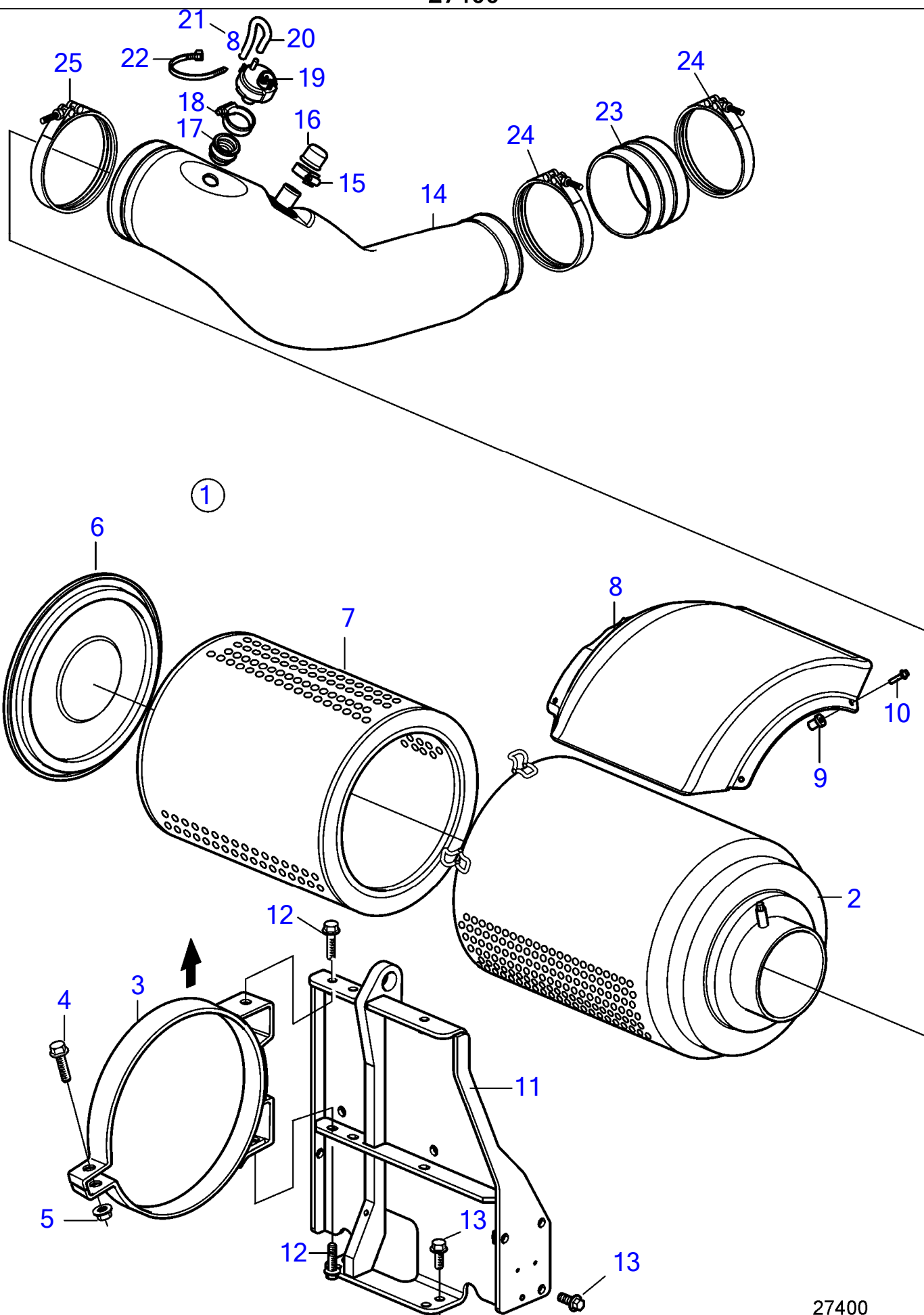
Ref	Part No.	Qty	Description	Notes
1	21202071	1	Air filter	Replaced by 21233119
	21233119	1	Air filter	Replaced by 23186795
	23186795	1	Air filter	
2		1	• Filter housing	
3	3831143	2	• Mounting strap	
4		2	• • Screw	
5		2	• • Nut	
6		1	• Lock	
7	21186955	1	• Insert	Replaced by 21212204
	21212204	1	• Insert	Replaced by 21702911
	21702911	1	• Air filter insert	
8	3828765	1	• Pressure drop indica	
9	21489980	1	Connection pipe	
10	3594296	1	Hose clamp	
11	1674223	2	Hose clamp	
12	21160546	1	Rubber collar	
13	845422	1	Plastic plug	
14	961668	1	Hose clamp	
15	3884787	1	Radiation shield	
16	975110	1	Flange screw	L=40mm
17	948007	1	Spacer sleeve	
18	968553	1	Flange screw	L=115mm
19	984753	1	Flange screw	L=25mm



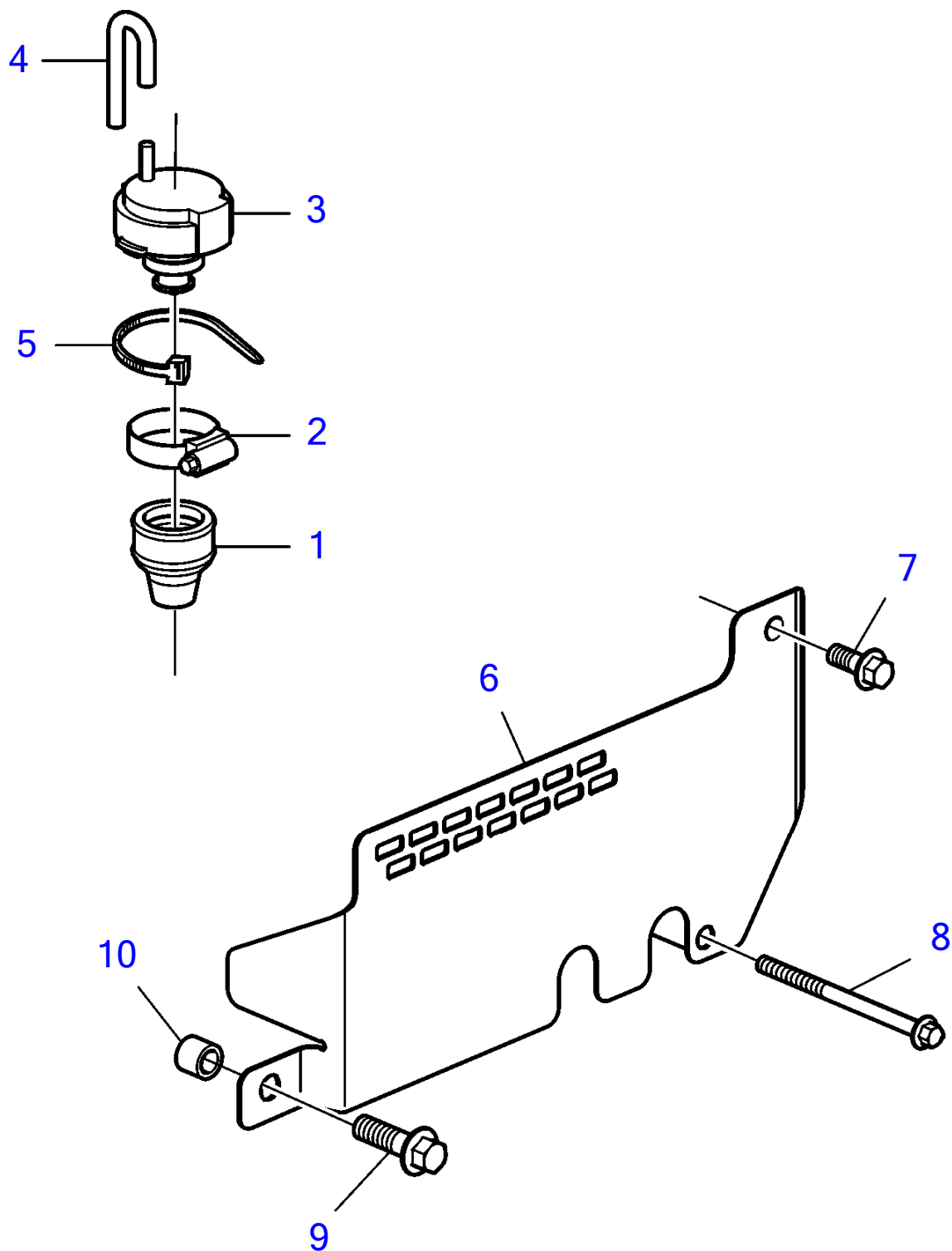
25 Air Filter with Installation Components, Standard

TAD1660VE, TAD1661VE, TAD1662VE

Ref	Part No.	Qty	Description	Notes
1	21186950	1	Air filter	Replaced by 21233121
	21233121	1	Air filter	
2		1	• Filter housing	
3		2	• Tensioning band	
4		2	• • Screw	
5		2	• • Nut	
6		1	• Lock	
7	21186955	1	• Insert	Replaced by 21212204
	21212204	1	• Insert	
8	3839145	1	Adapter	
9	3830971	1	Rain cap	
10	930760	4	Expanding nut	
11	984727	4	Flange screw	
12	3828704	1	Bracket	Replaced by 21395717
	21395717	1	Bracket	
13	984753	4	Flange screw	
14	984815	10	Flange screw	
15	21587173	1	Connection pipe	Std
	21927151	1	Connection pipe	Heavy duty
16	1674223	1	Hose clamp	
17	20560843	1	Vacuum switch	Replaced by 22996281
	22996281	1	Vacuum switch	
18	949931	X	Hose	L=150mm
19	948702	X	Cable tie	
20	994561	1	Hose clamp	
21	21488062	1	Rubber collar	
22	1544735	2	Hose clamp	
23	845422	1	Plastic plug	
24	961668		Hose clamp	

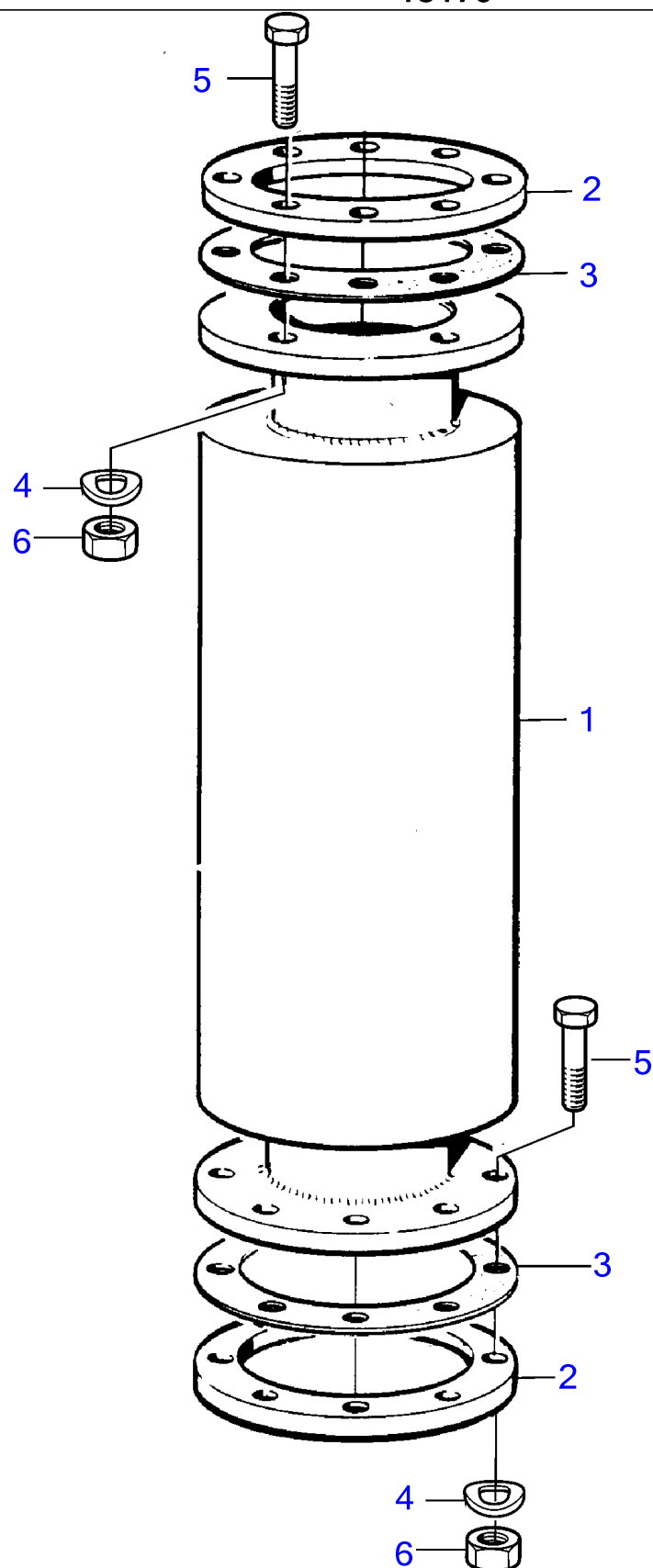


Ref	Part No.	Qty	Description	Notes
1	22227756	1	Air filter	
2		1	• Filter housing	
3		2	• Tensioning band	
4		2	• • Screw	
5		2	• • Nut	
6		1	• Cap	
7	21702911	1	• Air filter insert	
8	3830971	1	Rain cap	
9	930760	4	Expanding nut	
10	984727	4	Flange screw	
11	21395717	1	Bracket	
12	984753	4	Flange screw	
13	984815	10	Flange screw	
14	22148892	1	Connection pipe	
15	22274884	1	Hose clamp	
16	845422	1	Plastic plug	
17	22092074	1	Retainer	
18	994561	1	Hose clamp	
19	20560843	1	Vacuum switch	Replaced by 22996281
	22996281	1	Vacuum switch	
20	949931	X	Hose	L=150mm
21	948702	1	Cable tie	
22	948210	1	Cable tie	
23	21488062	1	Rubber collar	
24	1544735	2	Hose clamp	
25	1674223	1	Hose clamp	

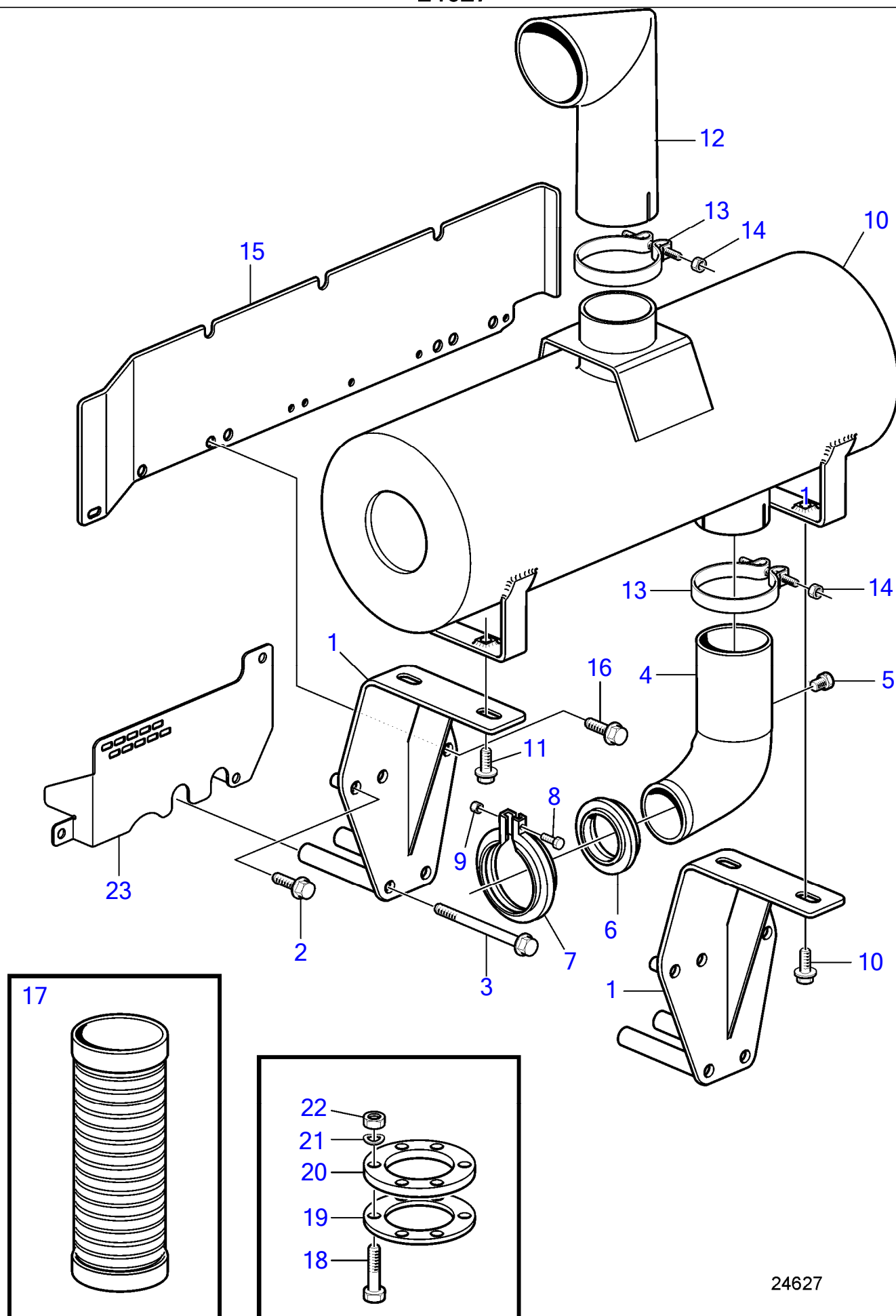


28468

Ref	Part No.	Qty	Description	Notes
1	3839145	1	Adapter	
2	994561	1	Hose clamp	
3	20560843	1	Vacuum switch	Replaced by 22996281
	22996281	1	Vacuum switch	
4	949931	X	Hose	L=150mm
5	948702	1	Cable tie	
6	21442226	1	Radiation shield	Replaced by 23134524
	23134524	1	Radiation shield	
7	984753	1	Flange screw	
8	994390	1	Flange screw	
9	975110	1	Flange screw	
10	948007	1	Spacer sleeve	



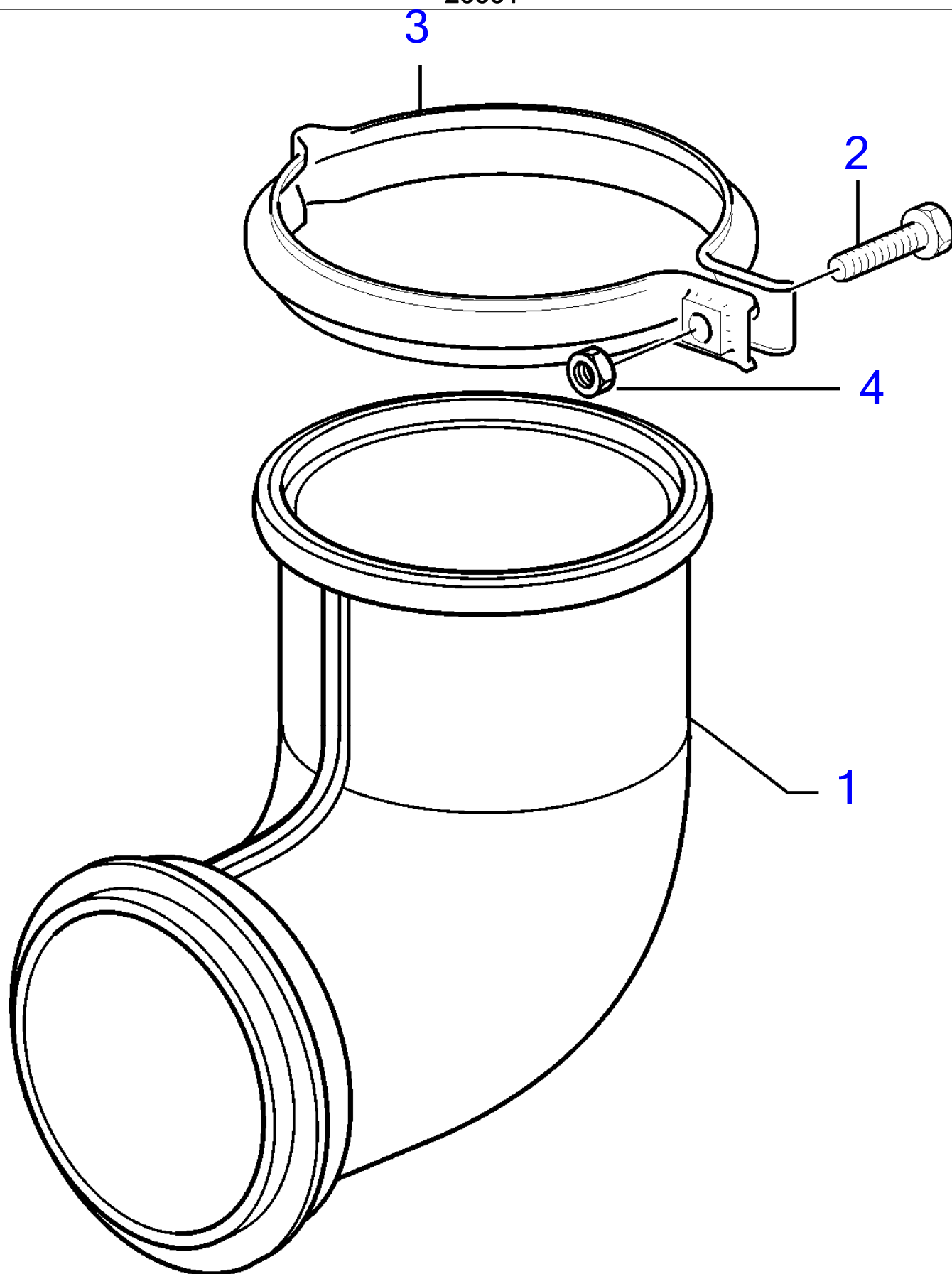
Ref	Part No.	Qty	Description	Notes
1	863049	1	Muffler	6"
	849832	1	Muffler	7"
2	(846413)	2	Weld flange	6", Obsolete part
	849981	2	Flange	7"
3	862976	2	Gasket	6"
	862950	2	Gasket	7"
4	941912	16	Spring washer	
5	955366	16	Hexagon screw	
6	955785	16	Hexagon nut	



25 Muffler, Engine Mounted

TAD1641VE, TAD1642VE, TAD1643VE

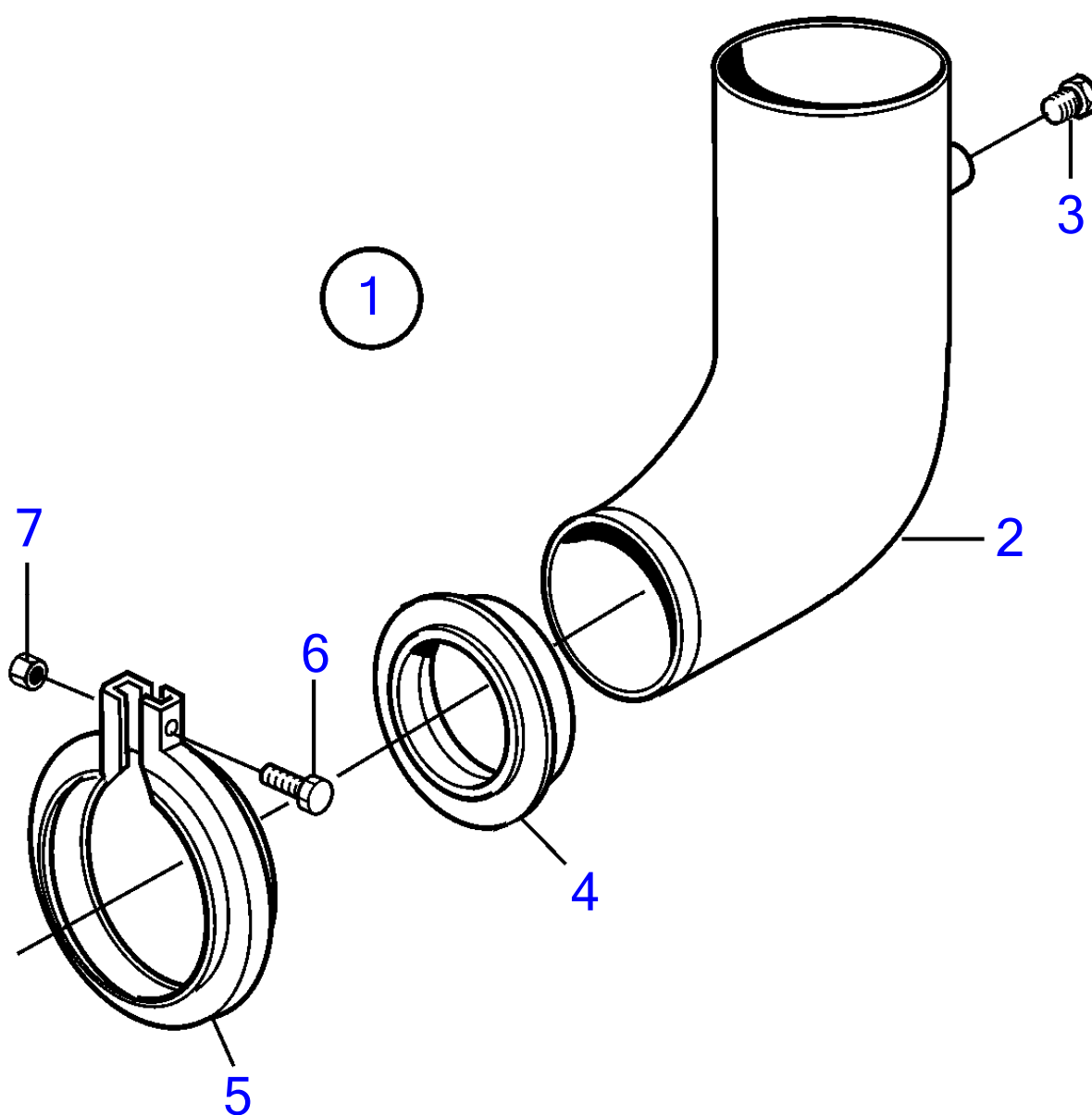
Ref	Part No.	Qty	Description	Notes
1	21808121	2	Bracket	
2	973096	4	Flange screw	
3	984755	4	Flange screw	
4	3838156	1	Pipe elbow	6"
5	479979	1	• Plug	
6	3838153	1	• Flange	
7	1624612	1	V-clamp	
8	994386	1	Flange screw	
9	990950	1	Flange lock nut	
10	3819614	1	Muffler	
11	984815	4	Flange screw	
12	3837622	1	End pipe	
13	3837623	2	Clamp	
14	990952	2	Flange lock nut	
15	3884341	1	Heat shield	
16	984751	3	Flange screw	
17	3828218	1	Exhaust pipe	
18	955368	8	Hexagon screw	
19	862593	1	Gasket	
20	836883	1	Flange	
21	941912	8	Spring washer	
22	955785	8	Hexagon nut	
23	3818518	1	Radiation shield	



25 Exhaust Pipe

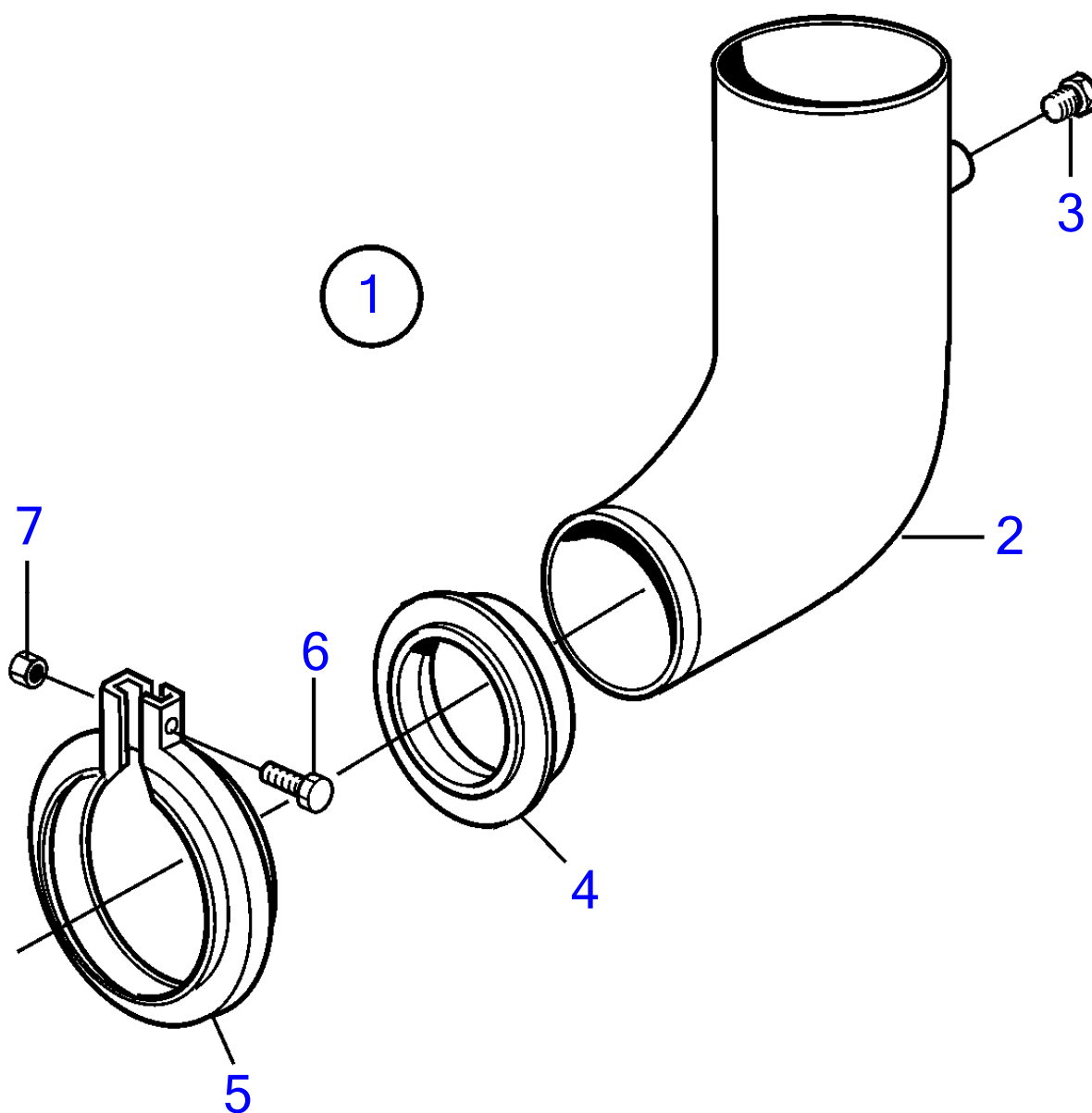
TAD1660VE, TAD1661VE, TAD1662VE

Ref	Part No.	Qty	Description	Notes
1	21308859	1	Exhaust pipe	5"
2	973924	1	Flange screw	
3	467310	1	V-clamp	
4	990950	1	Flange lock nut	



26547

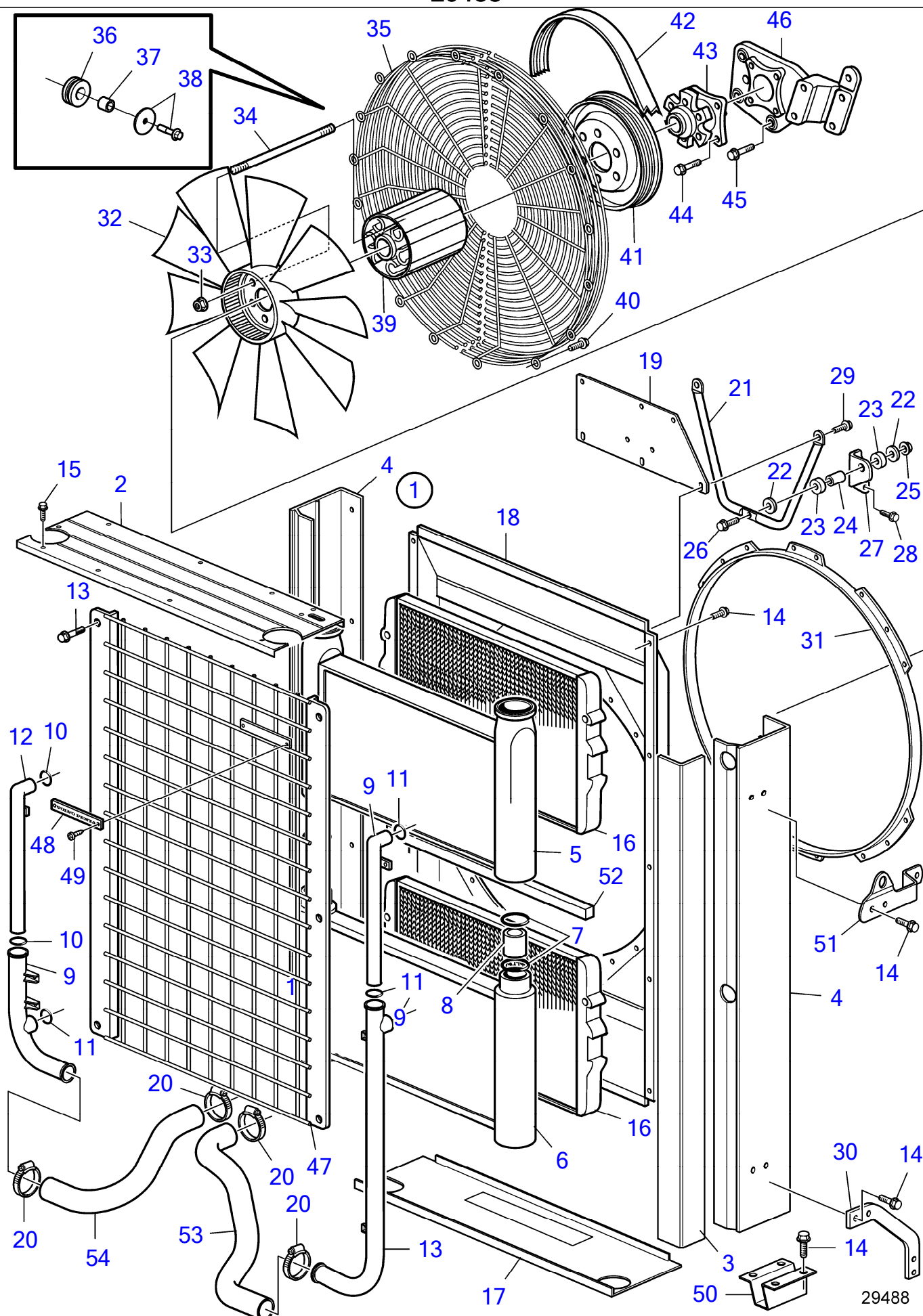
Ref	Part No.	Qty	Description	Notes
1	21838350	1	Pipe elbow	6"
2		1	• Pipe elbow	
3	479979	1	• Plug	
4	21820239	1	• Flange	
5	467310	1	V-clamp	
6	973924	1	Flange screw	
7	990950	1	Flange lock nut	



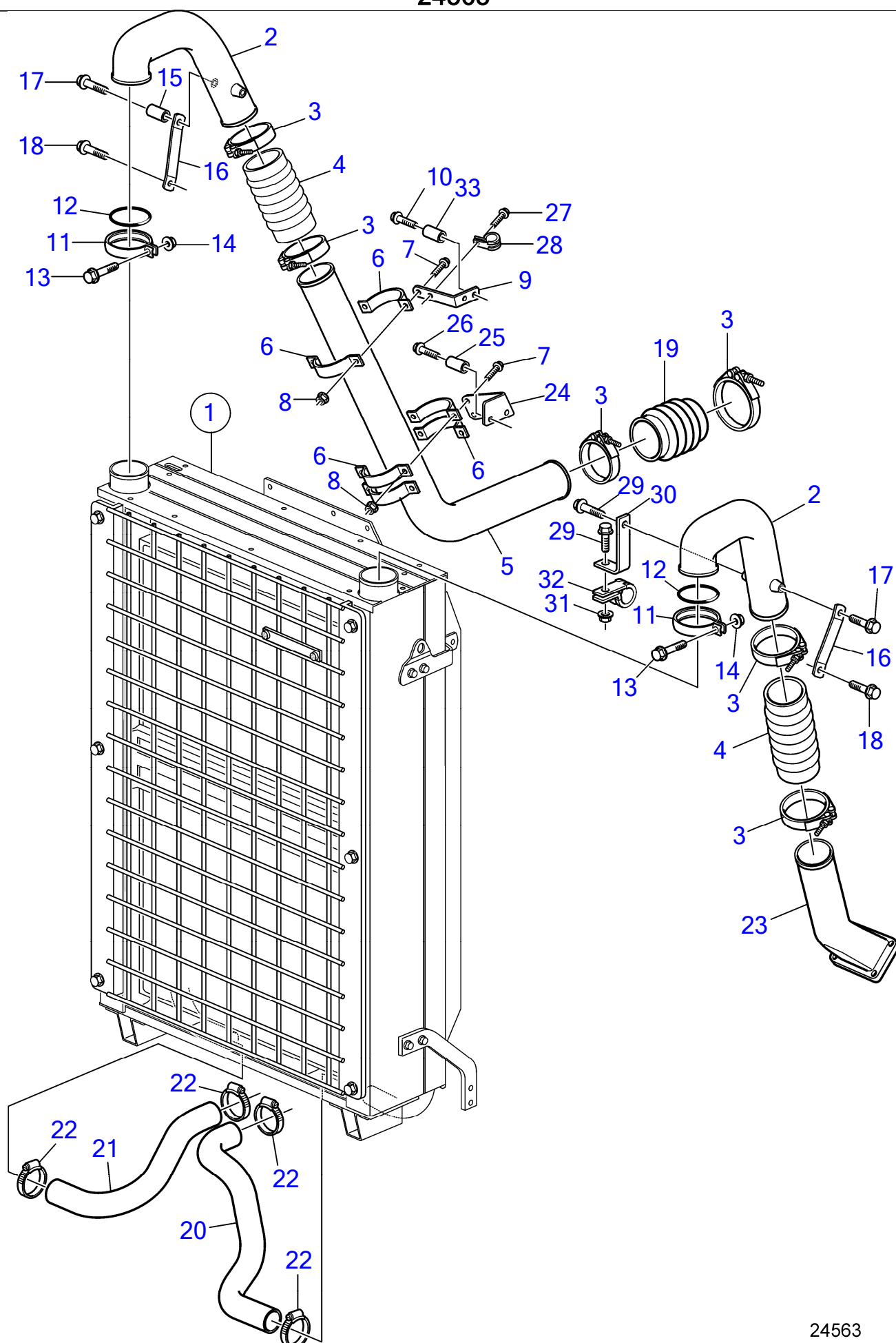
26547

Ref	Part No.	Qty	Description	Notes
1	21849313	1	Pipe elbow	7"
2			• Pipe elbow	
3	479979	1	• Plug	
4	21820239	1	• Flange	
5	467310	1	V-clamp	
6	973924	1	Flange screw	
7	990950	1	Flange lock nut	

TAD1641VE, TAD1642VE, TAD1643VE, TAD1650VE, TAD1660VE, TAD1661VE,
TAD1662VE, TAD1640VE-B, TAD1641VE-B, TAD1642VE-B, TAD1660-62VE
29488

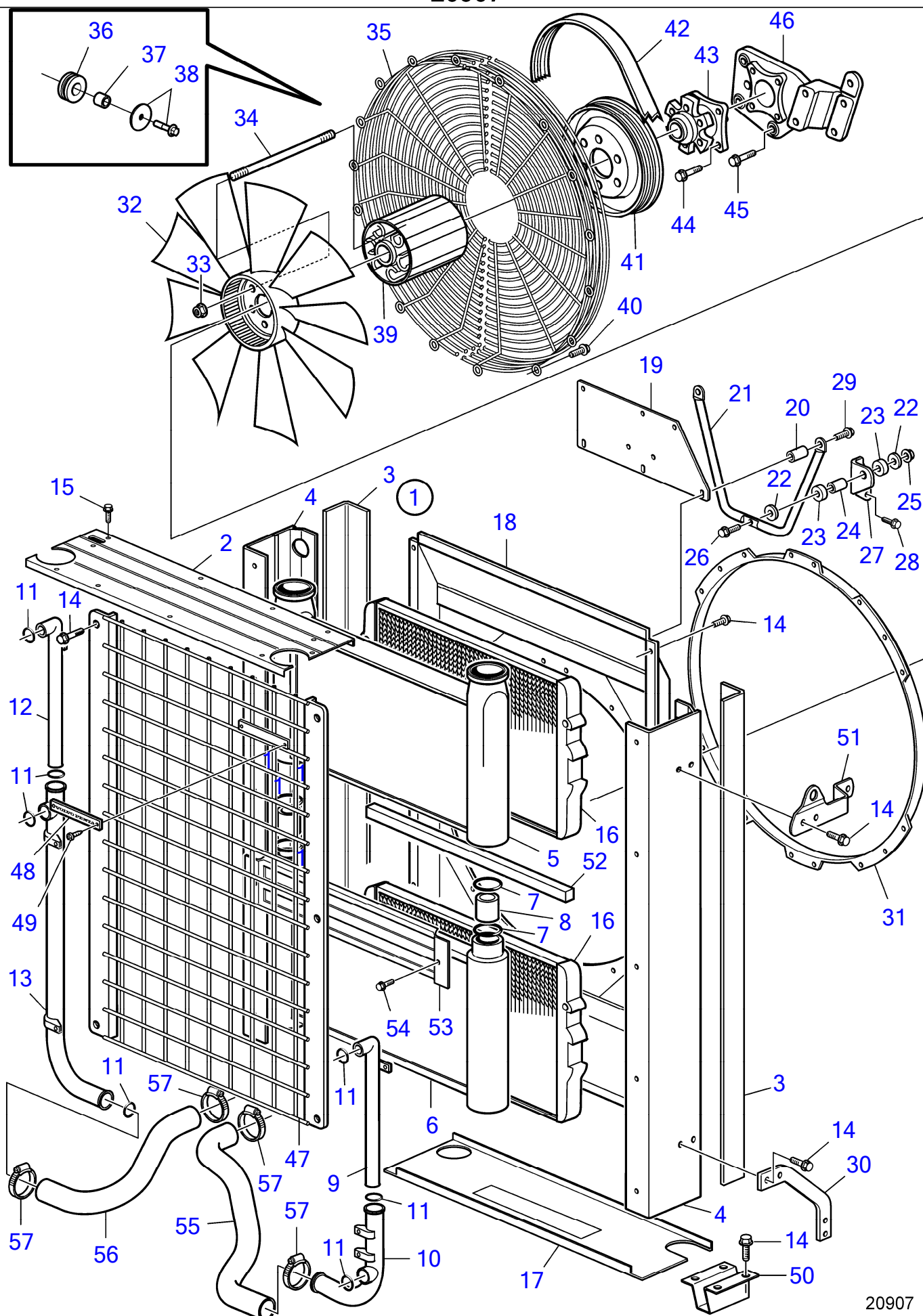


Ref	Part No.	Qty	Description	Notes
1		1	Cooling package	
2	3587701	1	• Frame profile	
3	3587742	2	• Frame profile	
4	3587699	1	• Frame profile	
5	3838129	1	• Charge air cooler	
6	3587692	1	• Charge air cooler	
7	3587694	8	• O-ring	
8	3587693	2	• Intermediate pipe	
9	3587695	1	• Radiator piping	
10	3587697	1	• Radiator piping	
11	3587350	6	• O-ring	
12	3587696	1	• Radiator piping	
13	3587698	1	• Radiator piping	
14	984733	18	• Flange screw	
15	3587729	22	• Screw	
16	3838130	2	• Radiator	
17	3587700	1	• Frame profile	
18	3838131	1	• Fan shroud	
19	3587730	1	• Bracket	
20	943480	4	Hose clamp	
21	889223	1	Stay	
22	948556	2	Washer	
23	866857	2	Rubber bushing	
24	252202	1	Spacer sleeve	
25	966818	1	Flange nut	
26	968302	1	Flange screw	
27	889231	1	Bracket	
28	984752	3	Flange screw	
29	946472	2	Flange screw	
30	3808825	1	Bracket	Left
	3808827	1	Bracket	Right
31	3827612	1	Fan ring	SN-2016108826
	78467816	1	Fan ring	SN2016108827-
32	3828963	1	Fan	
33	971098	6	Flange lock nut	
34	130204	6	Stud	
35	3825490	2	Fan guard	SN-2016108826
			• Bulletin p-26-1-111	New Fan Guard
35	78467466	2	Fan guard	SN2016108827-
36	21860181	12	• Rubber damper	
37	845988	12	• Spacer sleeve	
38	22147274	12	• Flange screw	
39	3829537	1	Fan hub	
40	994386	12	Flange screw	For Fan Guard 3825490
41	3828043	1	Pulley	
42	3827075	1	V-ribbed belt	SN-9184
	3819398	1	V-ribbed belt	SN9185-
43	21924453	1	Fan hub	
44	984754	4	Flange screw	
45	965221	5	Flange screw	
46	3830000	1	Bracket	
47	3829123	1	Radiator protector	Replaced by 21154155
	21154155	1	Radiator protector	
48	846118	1	Emblem	
49	941651	2	Cross recessed sunk	
50	3587744	1	Frame profile	
51	3830509	1	Bracket	Left
	3830508	1	Bracket	Right
52	3587741	4	Sealing strip	
53	3809808	1	Radiator hose	
54	3809806	1	Radiator hose	



Ref	Part No.	Qty	Description	Notes
1			Radiator	
2	3829137	2	Connecting pipe	
3	20435760	6	Hose clamp	(1660909)
4	3829133	2	Charge air hose	
5	3838798	1	Charge air pipe	
6	3887193	6	Kit	(3809114)
7	984736	6	Flange screw	
8	990940	6	Flange nut	
9	3887193	1	Kit	Replaced by bracket kit 3887193
10	973924	1	Flange screw	
11	3033054	2	V-clamp	
12	949647	2	O-ring	
13	973924	2	Flange screw	
14	990950	2	Flange lock nut	
15	847150	1	Spacer sleeve	
16	3838913	2	Bracket	
17	973924	1	Flange screw	
18	984734	3	Flange screw	
19	3838792	1	Charge air hose	
20	3809808	1	Radiator hose	
21	3809806	1	Radiator hose	
22	943480	4	Hose clamp	
23			Charge air pipe	
24	3887193	1	Kit	Replaced by bracket kit 3887193
25	1678297	2	Spacer sleeve	
26	965227	2	Flange screw	
27	984734	3	Flange screw	
28	941976	1	Clamp	
29	984734	2	Flange screw	
30	965558	1	Bracket	
31	990940	1	Flange nut	
32	952630	1	Clamp	
33	948007	1	Spacer sleeve	

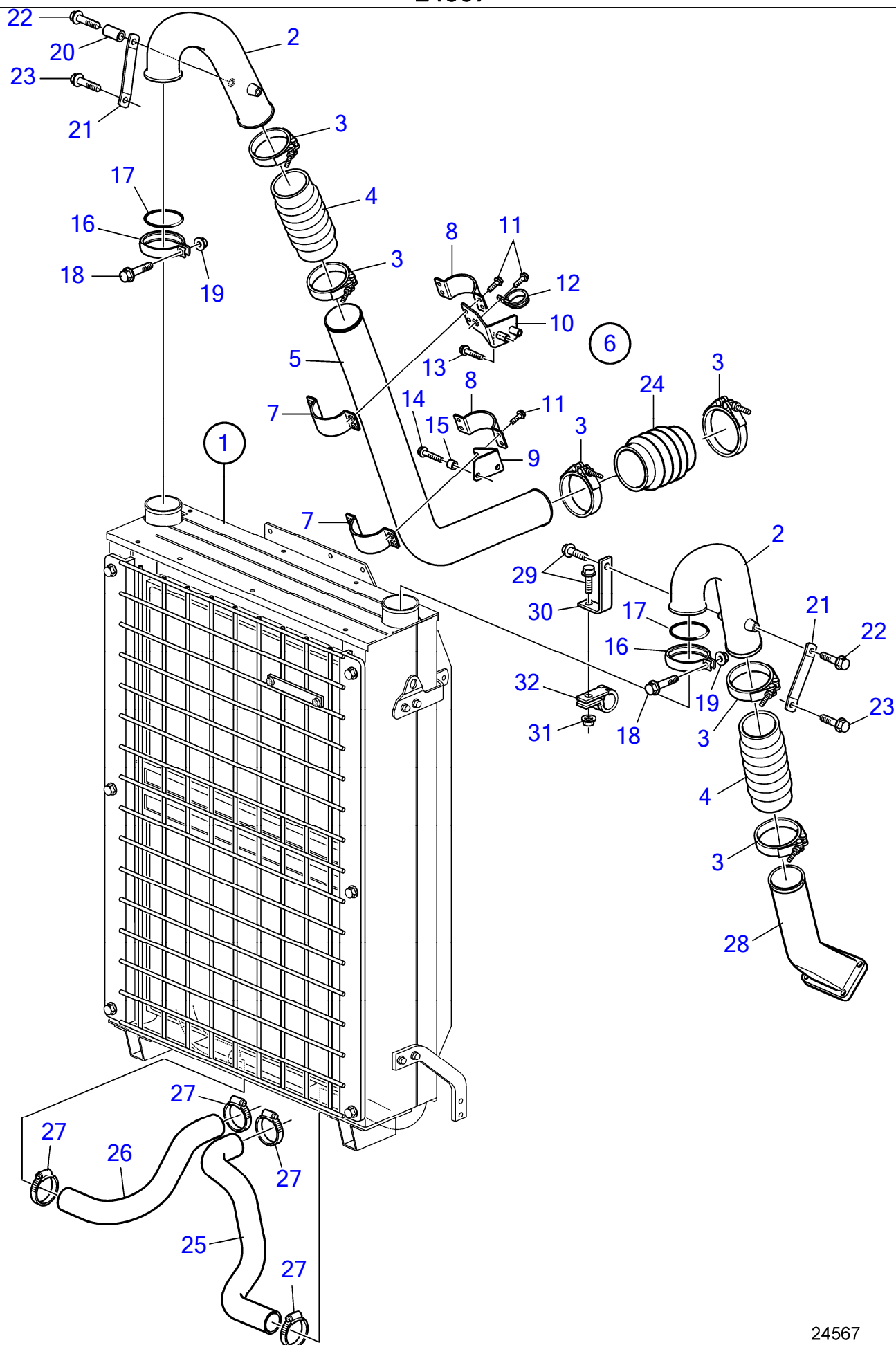
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TAD1662VE, TAD1640VE-B, TAD1641VE-B, TAD1642VE-B, TAD1660-62VE
20907



20907

Ref	Part No.	Qty	Description	Notes
1		1	Cooling package	
2	3587701	1	• Frame profile	
3	3587742	2	• Frame profile	
4	3587699	1	• Frame profile	
5	3838129	1	• Charge air cooler	
6	3587692	1	• Charge air cooler	
7	3587694	8	• O-ring	
8	3587693	2	• Intermediate pipe	
9	3587695	1	• Radiator piping	
10	3587697	1	• Radiator piping	
11	3587350	6	• O-ring	
12	3587696	1	• Radiator piping	
13	3587698	1	• Radiator piping	
14	984733	18	• Flange screw	
15	3587729	22	• Screw	
16	3838130	2	• Radiator	
17	3587700	1	• Frame profile	
18	3838131	1	• Fan shroud	
19	3587730	1	• Bracket	
20	849352	2	Spacer sleeve	
21	889223	1	Stay	
22	948556	2	Washer	
23	866857	2	Rubber bushing	
24	252202	1	Spacer sleeve	
25	966818	1	Flange nut	
26	968302	1	Flange screw	
27	889231	1	Bracket	
28	984752	3	Flange screw	
29	984758	2	Flange screw	
30	3808825	1	Bracket	Left
	3808827	1	Bracket	Right
31	3827612	1	Fan ring	SN-2016108826
	78467816	1	Fan ring	SN2016108827-
32	3828963	1	Fan	
33	971098	6	Flange lock nut	
34	130204	6	Stud	
35	3825490	2	Fan guard	SN-2016108826
			• Bulletin p-26-1-111	New Fan Guard
35	78467466	2	Fan guard	SN2016108827-
36	21860181	12	• Rubber damper	
37	845988	12	• Spacer sleeve	
38	22147274	12	• Flange screw	
39	3829537	1	Fan hub	
40	994386	12	Flange screw	For Fan Guard 3825490
41	3828043	1	Pulley	
42	3827075	1	V-ribbed belt	SN-9184
	3819398	1	V-ribbed belt	SN9185-
43	21924453	1	Fan hub	
44	984754	4	Flange screw	
45	965221	5	Flange screw	
46	3830000	1	Bracket	
47	3829123	1	Radiator protector	Replaced by 21154155
	21154155	1	Radiator protector	
48	846118	1	Emblem	
49	941651	2	Cross recessed sunk	
50	3587744	1	Frame profile	
51	3830509	1	Bracket	Left
	3830508	1	Bracket	Right
52	3587741	4	Sealing strip	
53	3588348	1	Lid	
54	984733	2	Flange screw	
55	3812252	1	Radiator hose	
56	3812251	1	Radiator hose	
57	943480	4	Hose clamp	

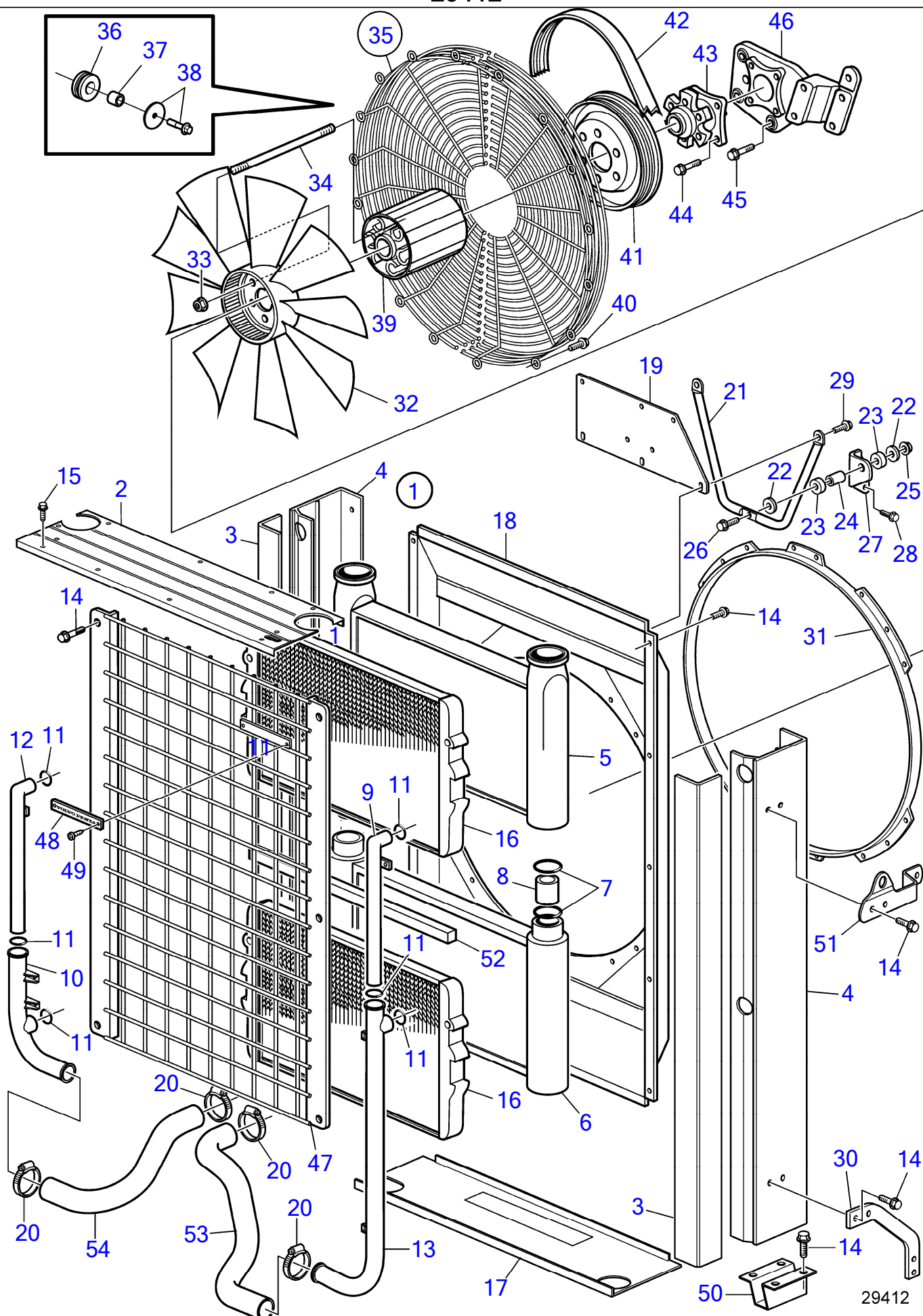
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24567



24567

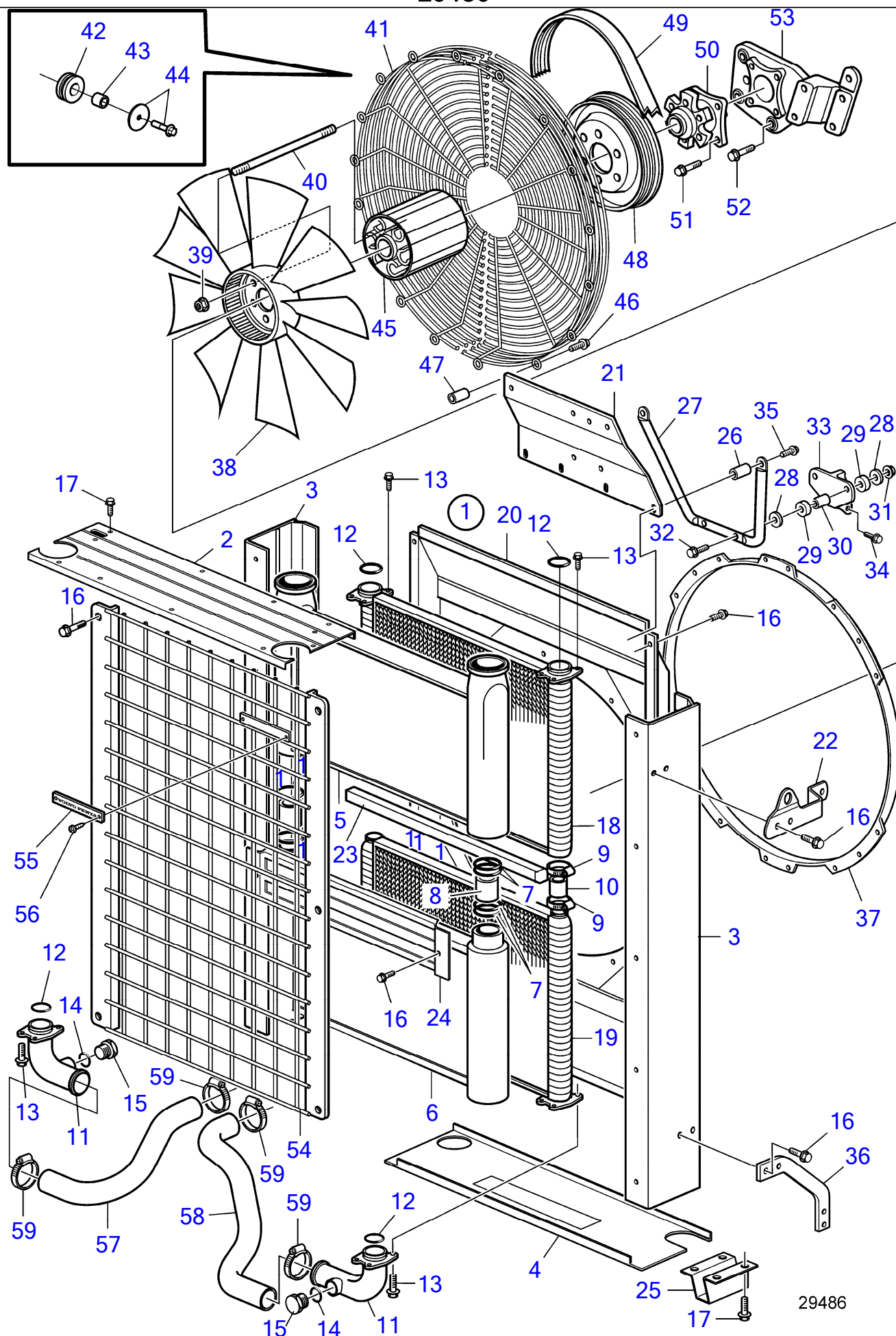
Ref	Part No.	Qty	Description	Notes
1			Radiator	
2	3829131	2	Connecting pipe	
3	20435760	6	Hose clamp	(1660909)
4	3829133	2	Charge air hose	
5	3838798	1	Charge air pipe	
6	3887193	1	Kit	
7	3843092	2	• Bracket	
8	3843090	2	• Bracket	
9	3843123	1	• Bracket	
10	3843126	1	• Bracket	
11	984734	8	• Flange screw	
12	941976	1	Clamp	
13	973924	2	Flange screw	
14	965227	2	Flange screw	
15	1678297	2	Spacer sleeve	
16	3033054	2	V-clamp	
17	949647	2	O-ring	
18	973924	2	Flange screw	
19	990950	2	Flange lock nut	
20	848229	2	Spacer sleeve	
21	3838913	2	Bracket	
22	973924	1	Flange screw	
23	984734	2	Flange screw	
24	3838792	1	Charge air hose	
25	3809808	1	Radiator hose	
26	3809806	1	Radiator hose	
27	943480	4	Hose clamp	
28			Charge air pipe	
29	984734	2	Flange screw	
30	965558	1	Bracket	
31	990940	1	Flange nut	
32	952630	1	Clamp	

TAD1641VE, TAD1642VE, TAD1643VE, TAD1650VE, TAD1660VE, TAD1661VE,
TAD1662VE, TAD1640VE-B, TAD1641VE-B, TAD1642VE-B, TAD1660-62VE
29412



Ref	Part No.	Qty	Description	Notes
1		1	Cooling package	
2	3587701	1	• Frame profile	
3	3587742	2	• Frame profile	
4	3587699	1	• Frame profile	
5	3838129	1	• Charge air cooler	
6	3587692	1	• Charge air cooler	
7	3587694	8	• O-ring	
8	3587693	2	• Intermediate pipe	
9	3587695	1	• Radiator piping	
10	3587697	1	• Radiator piping	
11	3587350	6	• O-ring	
12	3587696	1	• Radiator piping	
13	3587698	1	• Radiator piping	
14	984733	18	• Flange screw	
15	3587729	22	• Screw	
16	3838130	2	• Radiator	
17	3587700	1	• Frame profile	
18	3838131	1	• Fan shroud	
19	3587730	1	• Bracket	
20	943480	4	Hose clamp	
21	889223	1	Stay	
22	948556	2	Washer	
23	866857	2	Rubber bushing	
24	252202	1	Spacer sleeve	
25	966818	1	Flange nut	
26	968302	1	Flange screw	
27	889231	1	Bracket	
28	984752	3	Flange screw	
29	946472	2	Flange screw	
30	3808825	1	Bracket	Left
	3808827	1	Bracket	Right
31	3827612	1	Fan ring	
32	3828964	1	Fan	
33	971098	6	Flange lock nut	
34	130204	6	Stud	
35	3825490	2	Fan guard	SN-2016107282
			• Bulletin p-26-1-111	New Fan Guard
35	78467466	2	Fan guard	SN2016107283-
36	21860181	12	• Rubber damper	
37	845988	12	• Spacer sleeve	
38	22147274	12	• Flange screw	
39	3829537	1	Fan hub	
40	994386	12	Flange screw	For Fan Guard 3825490
41	3828043	1	Pulley	
42	3827075	1	V-ribbed belt	SN-9184
	3819398	1	V-ribbed belt	SN9185-
43	21924453	1	Fan hub	
44	984754	4	Flange screw	
45	965221	5	Flange screw	
46	3830000	1	Bracket	
47	3829123	1	Radiator protector	Replaced by 21154155
	21154155	1	Radiator protector	
48	846118	1	Emblem	
49	941651	2	Cross recessed sunk	
50	3587744	1	Frame profile	
51	3830509	1	Bracket	Left
	3830508	1	Bracket	Right
52	3587741	4	Sealing strip	
53	3809808	1	Radiator hose	
54	3809806	1	Radiator hose	

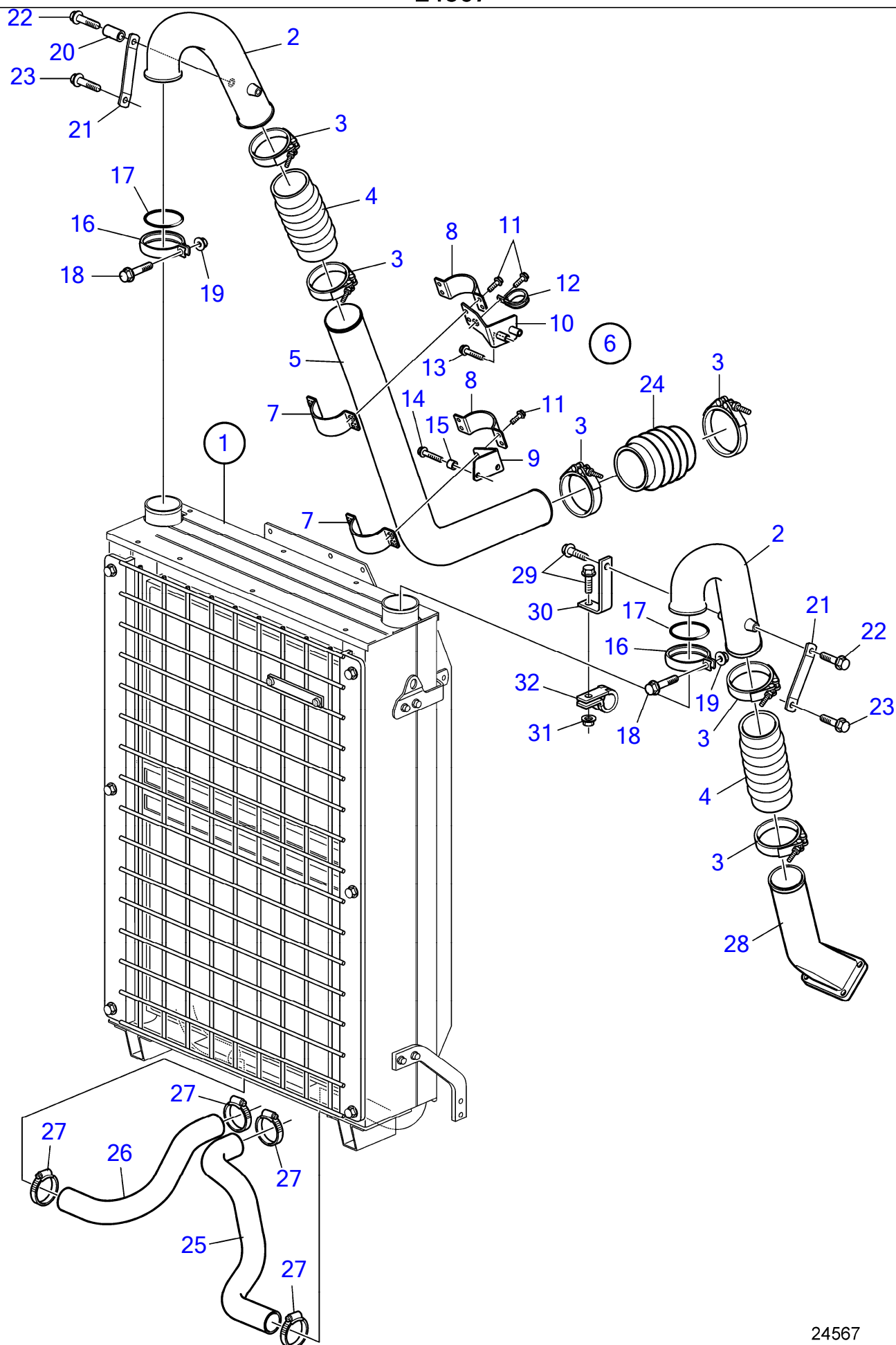
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29486



29486

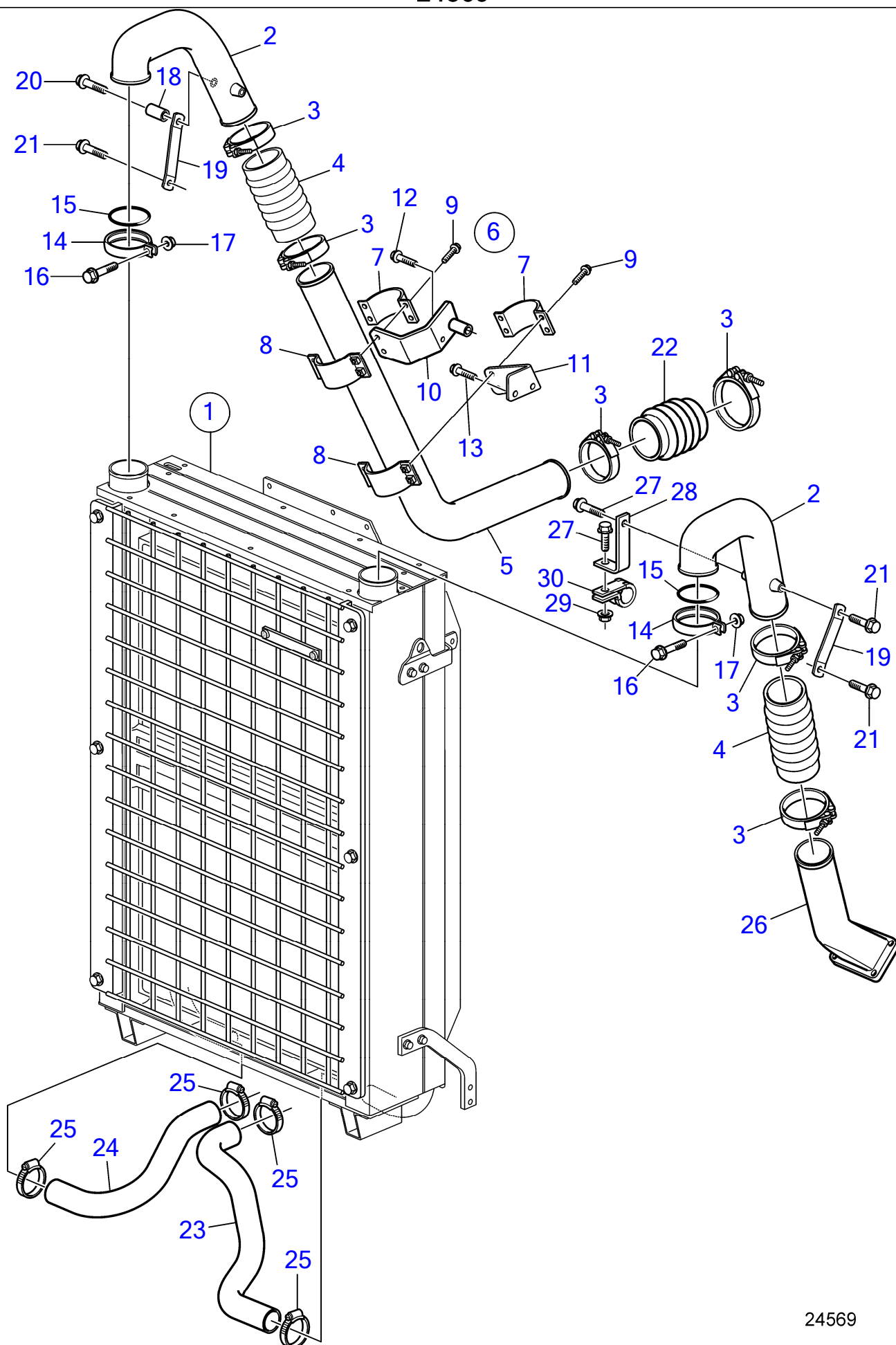
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1		1	Cooling package	
2	21134770	1	• Frame profile	
3	21134766	2	• Frame profile	
4	21134775	1	• Frame profile	
5	3838129	1	• Charge air cooler	
6	3587692	1	• Charge air cooler	
7	3587694	8	• O-ring	
8	3587693	2	• Intermediate pipe	
9	943478	4	• Hose clamp	
10	21134129	2	• Hose	
11	21134796	2	• Hose connection	
12	21138584	4	• O-ring	
13		24	• Screw	
14	21147027	2	• O-ring	
15	21147028	2	• Plug	
16	984733	20	• Flange screw	
17	3587729	18	• Screw	
18	21134096	1	• Radiator	
19	21133904	1	• Radiator	
20	21135099	1	• Fan shroud	
21	21147050	1	• Bracket	
22	3830509	1	• Bracket	Right
	3830508	1	• Bracket	Left
23	3587741	4	• Sealing strip	
24	3588348	1	• Lid	
25		1	Bracket	
26	849352	2	Spacer sleeve	
27	3593807	1	Stay	
28	948556	4	Washer	
29	866857	4	Rubber bushing	
30	252202	1	Spacer sleeve	
31	966818	2	Flange nut	
32	968302	2	Flange screw	
33	3594409	1	Bracket	
34	984753	3	Flange screw	
35	984758	2	Flange screw	
36	3808825	1	Bracket	Right
	3808827	1	Bracket	Left
37	3827612	1	Fan ring	SN-2016108826
	78467816	1	Fan ring	SN2016108827-
38	3828963	1	Fan	
39	990941	6	Flange nut	
40	130204	6	Stud	
41	3825490	2	Fan guard	SN-2016108826
			• Bulletin p-26-1-111	New Fan Guard
41	78467466	2	Fan guard	SN2016108827-
42	21860181	12	• Rubber damper	
43	845988	12	• Spacer sleeve	
44	22147274	12	• Flange screw	
45	3829537	1	Fan hub	
46	994386	12	Flange screw	For Fan Guard 3825490
47	807257	12	Spacer sleeve	For Fan Guard 3825490
48	3828043	1	Pulley	
49	3819398	1	V-ribbed belt	
50	21924453	1	Fan hub	
51	984754	4	Flange screw	
52	965221	5	Flange screw	
53	3830000	1	Bracket	
54	3829123	1	Radiator protector	
55	846118	1	Emblem	
56	941651	2	Cross recessed sunk	
57	3886478	1	Radiator hose	
58	3886480	1	Radiator hose	
59	943480	4	Hose clamp	

TAD1641VE, TAD1642VE, TAD1643VE, TAD1650VE, TAD1660VE, TAD1661VE,
TAD1662VE, TAD1640VE-B, TAD1641VE-B, TAD1642VE-B, TAD1660-62VE
24567



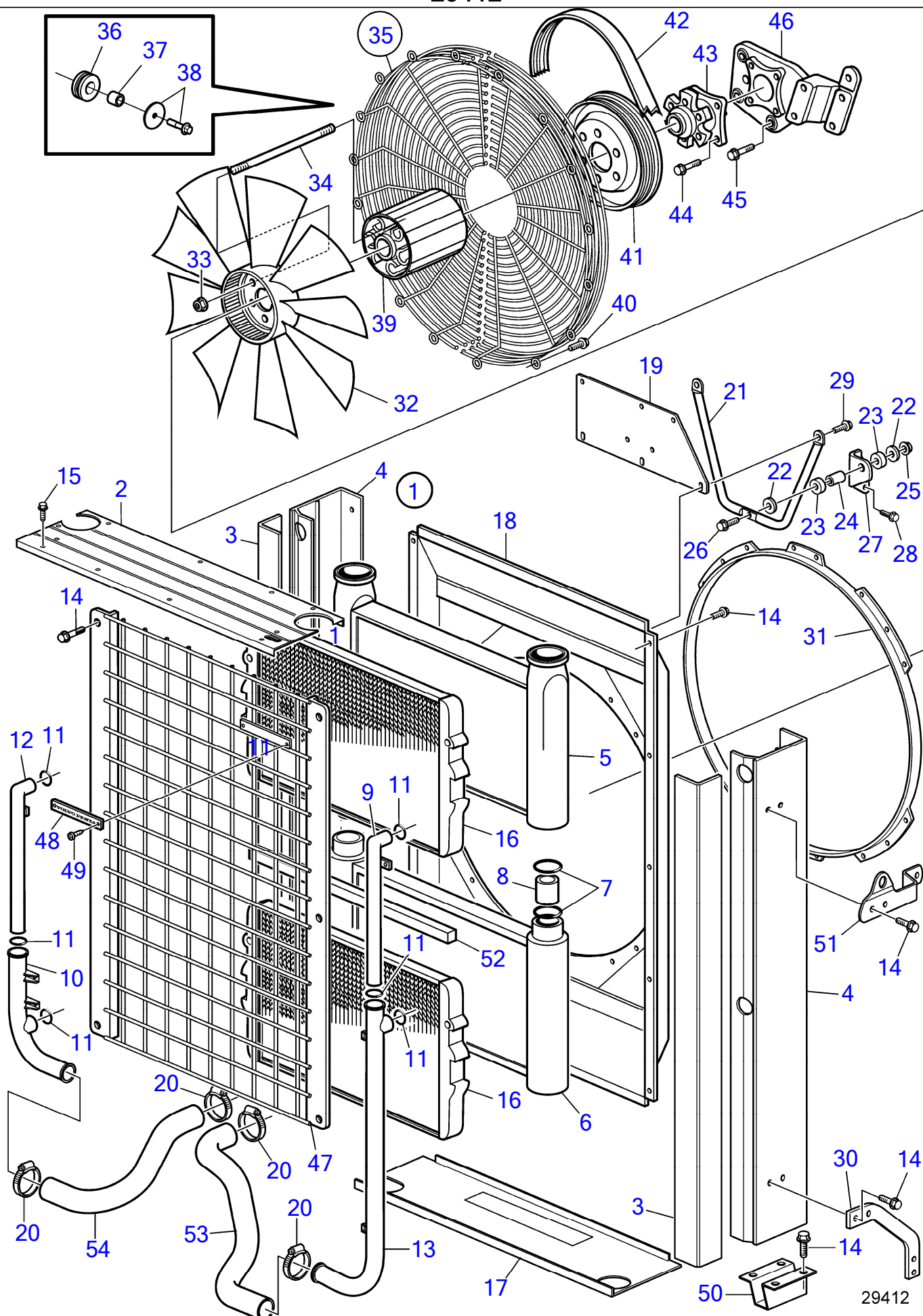
24567

Ref	Part No.	Qty	Description	Notes
1			Radiator	
2	3829131	2	Connecting pipe	
3	20435760	6	Hose clamp	(1660909)
4	3829133	2	Charge air hose	
5	3838798	1	Charge air pipe	
6	3887193	1	Kit	
7	3843092	2	• Bracket	
8	3843090	2	• Bracket	
9	3843123	1	• Bracket	
10	3843126	1	• Bracket	
11	984734	8	• Flange screw	
12	941976	1	Clamp	
13	973924	2	Flange screw	
14	965227	2	Flange screw	
15	1678297	2	Spacer sleeve	
16	3033054	2	V-clamp	
17	949647	2	O-ring	
18	973924	2	Flange screw	
19	990950	2	Flange lock nut	
20	848229	2	Spacer sleeve	
21	3838913	2	Bracket	
22	973924	1	Flange screw	
23	984734	2	Flange screw	
24	3838792	1	Charge air hose	
25	3886480	1	Radiator hose	Right
26	3886478	1	Radiator hose	Left
27	943480	4	Hose clamp	
28			Charge air pipe	
29	984734	2	Flange screw	
30	965558	1	Bracket	
31	990940	1	Flange nut	
32	952630	1	Clamp	

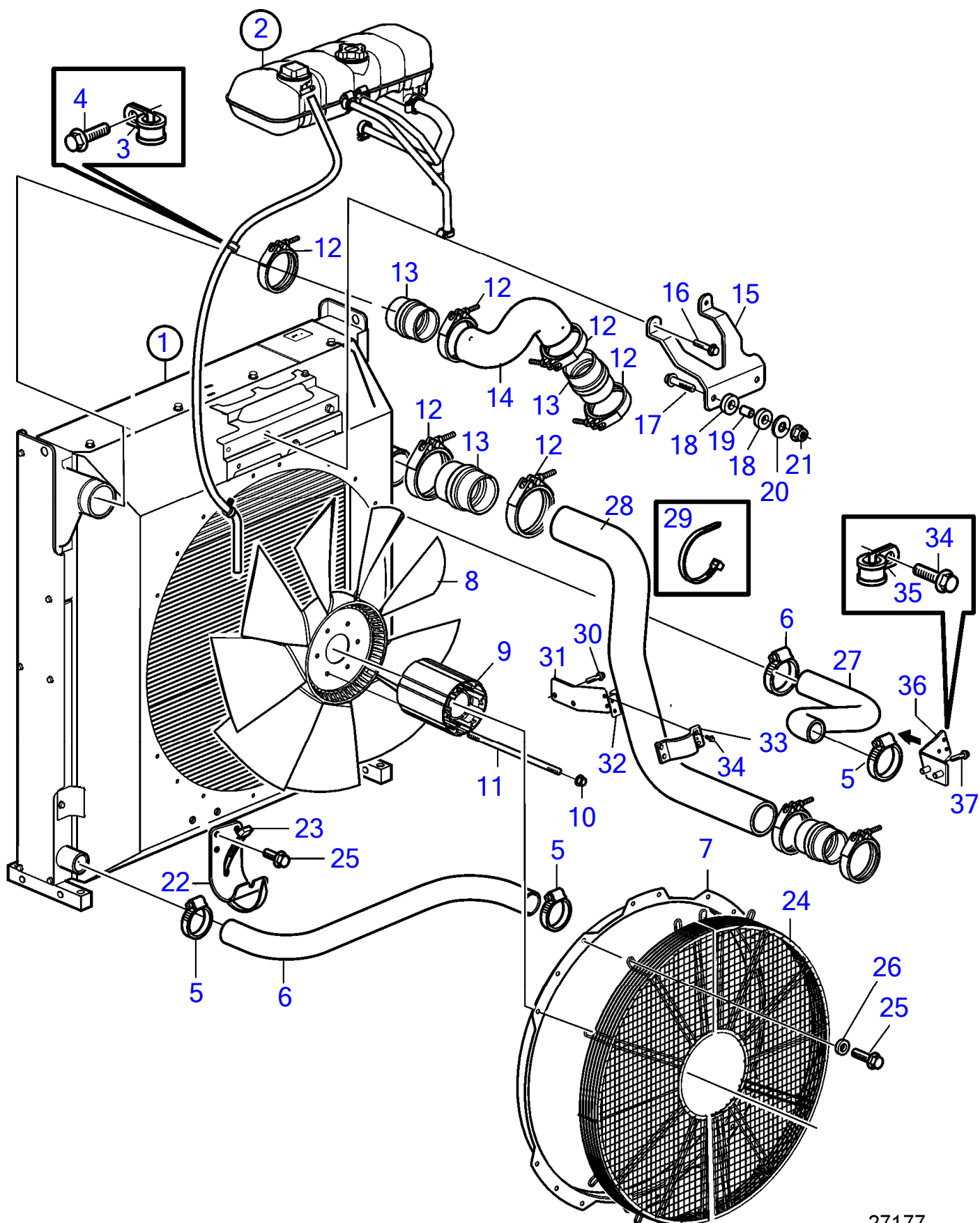


Ref	Part No.	Qty	Description	Notes
1			Radiator	
			.	
2	3829137	2	Connecting pipe	
3	20435760	6	Hose clamp	(1660909)
4	3829133	2	Charge air hose	
5	3838798	1	Charge air pipe	
6	3887193	1	Kit	(3809114)
7	3843092	2	• Bracket	
8	3843090	2	• Bracket	
9	984734	8	• Flange screw	
10	3843126	1	• Bracket	
11	3843123	1	• Bracket	
12	973924	2	Flange screw	
13	965226	2	Flange screw	
14	3033054	2	V-clamp	
15	949647	2	O-ring	
16	973924	2	Flange screw	
17	990950	2	Flange lock nut	
18	847150	1	Spacer sleeve	
19	3838913	2	Bracket	
20	984737	1	Flange screw	
21	984734	3	Flange screw	
22	3838792	1	Charge air hose	
23	3886480	1	Radiator hose	
24	3886478	1	Radiator hose	
25	943480	4	Hose clamp	
26			Charge air pipe	
27	984734	2	Flange screw	
28	965558	1	Bracket	
29	990940	1	Flange nut	
30	952630	1	Clamp	

TAD1641VE, TAD1642VE, TAD1643VE, TAD1650VE, TAD1660VE, TAD1661VE,
TAD1662VE, TAD1640VE-B, TAD1641VE-B, TAD1642VE-B, TAD1660-62VE
29412



Ref	Part No.	Qty	Description	Notes
1		1	Cooling package	
2	3587701	1	• Frame profile	
3	3587742	2	• Frame profile	
4	3587699	1	• Frame profile	
5	3838129	1	• Charge air cooler	
6	3587692	1	• Charge air cooler	
7	3587694	8	• O-ring	
8	3587693	2	• Intermediate pipe	
9	3587695	1	• Radiator piping	
10	3587697	1	• Radiator piping	
11	3587350	6	• O-ring	
12	3587696	1	• Radiator piping	
13	3587698	1	• Radiator piping	
14	984733	18	• Flange screw	
15	3587729	22	• Screw	
16	3838130	2	• Radiator	
17	3587700	1	• Frame profile	
18	3838131	1	• Fan shroud	
19	3587730	1	• Bracket	
20	943480	4	Hose clamp	
21	889223	1	Stay	
22	948556	2	Washer	
23	866857	2	Rubber bushing	
24	252202	1	Spacer sleeve	
25	966818	1	Flange nut	
26	968302	1	Flange screw	
27	889231	1	Bracket	
28	984752	3	Flange screw	
29	946472	2	Flange screw	
30	3808825	1	Bracket	Left
	3808827	1	Bracket	Right
31	3827612	1	Fan ring	
32	3828964	1	Fan	
33	971098	6	Flange lock nut	
34	130204	6	Stud	
35	3825490	2	Fan guard	SN-2016107282
			• Bulletin p-26-1-111	New Fan Guard
35	78467466	2	Fan guard	SN2016107283-
36	845988	12	• Spacer sleeve	
37	22147274	12	• Flange screw	
38	21860181	12	• Rubber damper	
39	3829537	1	Fan hub	
40	994386	12	Flange screw	For Fan Guard 3825490
41	3828043	1	Pulley	For TAD1640GE
	3829958	1	Pulley	For TAD1641,1642GE
42	3827075	1	V-ribbed belt	For TAD1640GE SN-2016029184
	3819398	1	V-ribbed belt	For TAD1640GE SN2016029185-
	3838617	1	V-ribbed belt	For TAD1641,1642GE
43	21924453	1	Fan hub	
44	984754	4	Flange screw	
45	965221	5	Flange screw	
46	3830000	1	Bracket	
47	3888997	2	Radiator grille	
48	846118	1	Emblem	
49	941651	2	Cross recessed sunk	
50	3587744	1	Frame profile	
51	3830509	1	Bracket	Left
	3830508	1	Bracket	Right
52	3587741	4	Sealing strip	
53	3809808	1	Radiator hose	
54	3809806	1	Radiator hose	

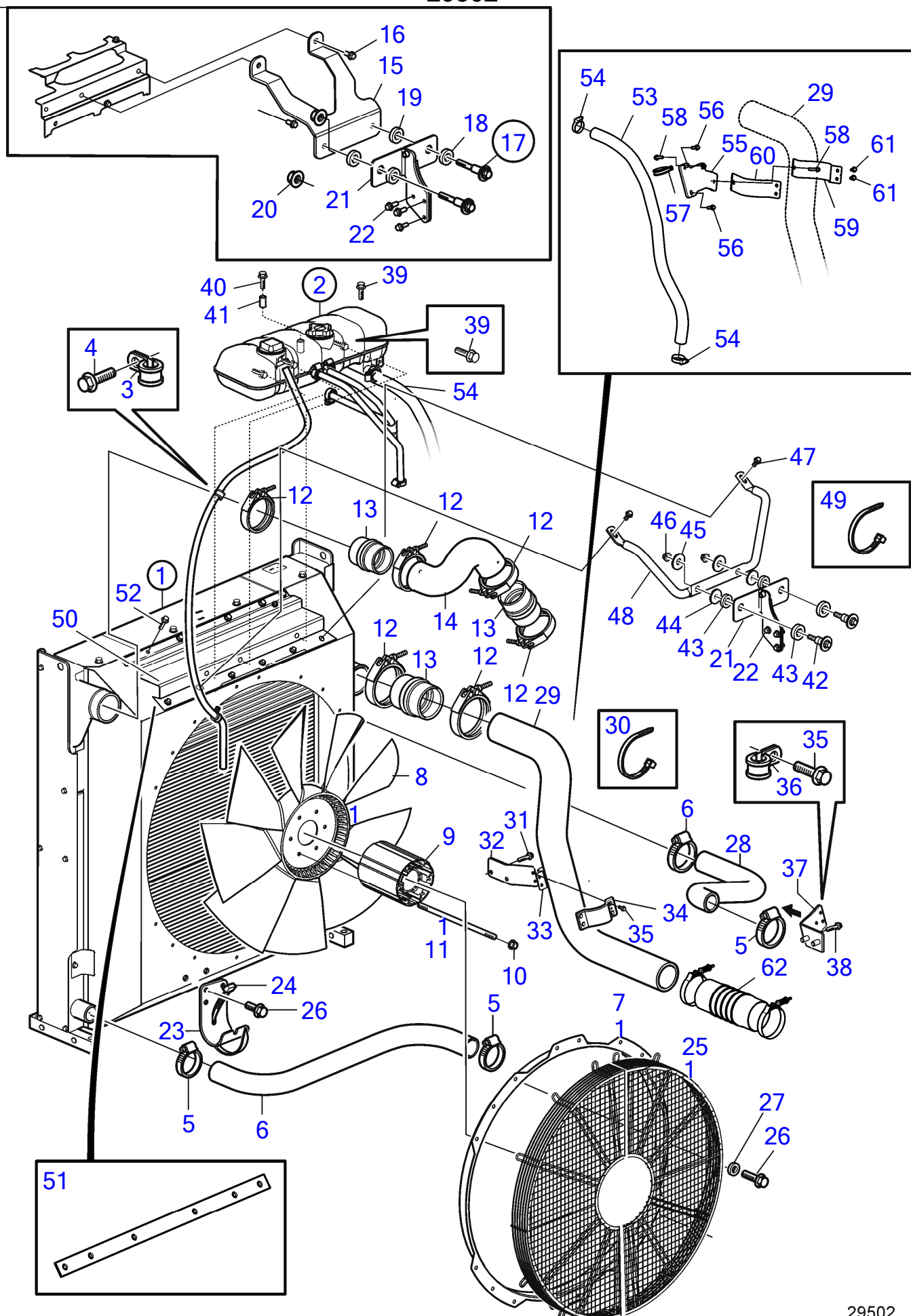


27177

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TAD1640VE-B, TAD1641VE-B, TAD1642VE-B

Ref	Part No.	Qty	Description	Notes
1		1	Cooling package	Obsolete part
2	1674916	1	Expansion tank	
3	942810	2	Clamp	
4	984734	2	Flange screw	
5	994565	4	Hose clamp	
6	21888852	1	Hose	
7	3827612	1	Fan ring	
8	3828963		Fan	Suction type
	3828964	1	Fan	Pusher type
9	3829537	1	Fan hub	Pusher type, L=195mm
	21418129	1	Fan hub	Suction type, L=210mm
10	990941	6	Flange nut	
11	130204	6	Stud	Pusher type
	981952	6	Stud	Suction type
12	20435760	8	Hose clamp	
13	3838792	4	Charge air hose	
14	22185615	1	Pipe	
15	21888839	1	Brace	
16	984752	2	Flange screw	
17	984735	2	Flange screw	
18	866857	4	Rubber bushing	
19	252202	2	Spacer sleeve	
20	948556	2	Washer	
21	990944	2	Flange nut	
22	22036724	1	Bracket	
23	980464	1	Cable tie	
24	22118112	2	Fan guard	
25	984734	12	Flange screw	
26	976944	12	Washer	
27	21888849	1	Hose	
28	21888843	1	Pipe	
29	948211	2	Cable tie	
30	990810	2	Flange screw	
31	3843123	1	Bracket	
32		1	Bracket	
33	3843090	1	Bracket	
34	984734	5	Flange screw	
35	941976	1	Clamp	
36		1	Bracket	
37	984739	2	Flange screw	

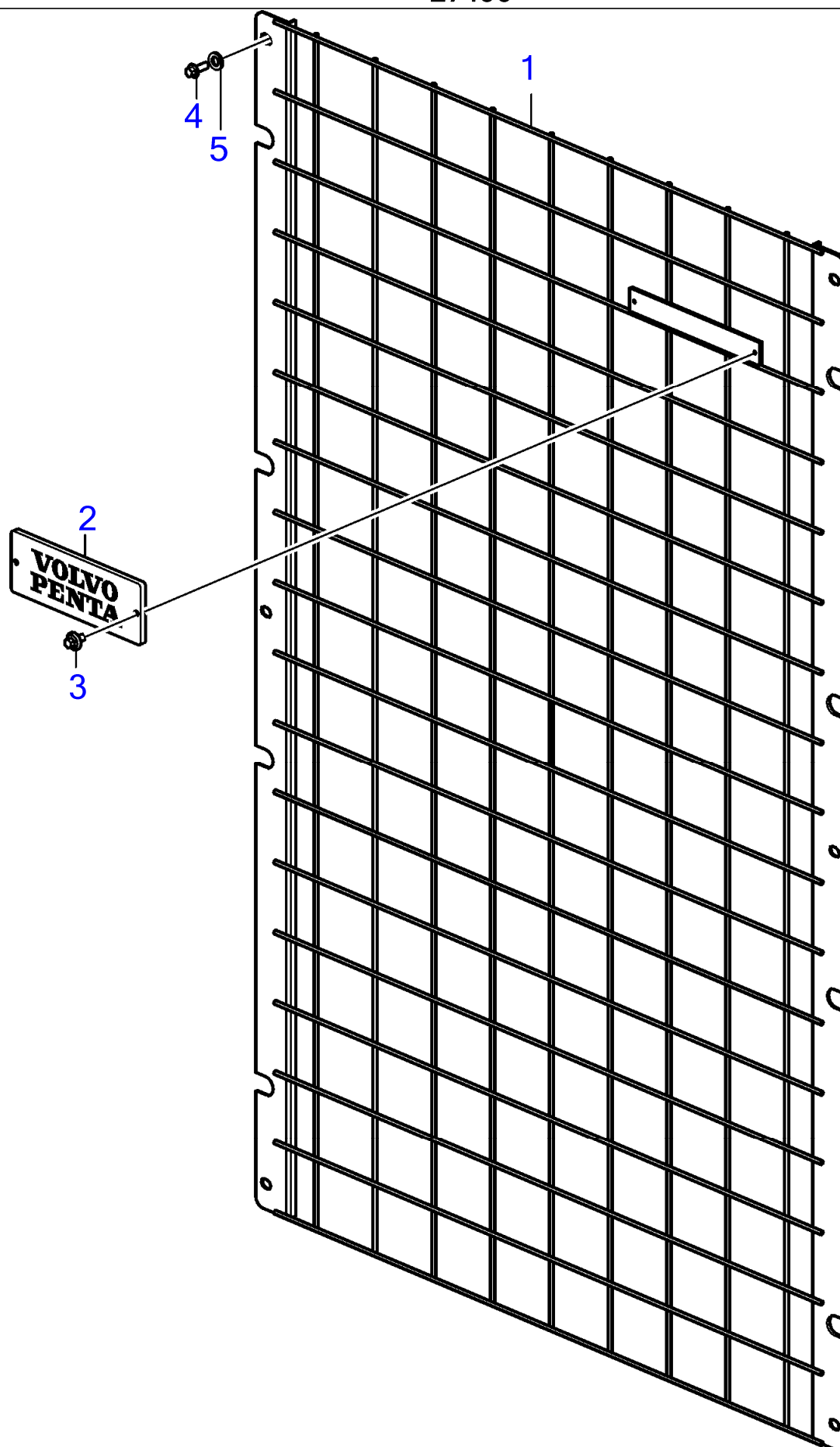
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TAD1662VE, TAD1640VE-B, TAD1641VE-B, TAD1642VE-B, TAD1660-62VE
29502



26 Cooling system and components HD, SN2016087665-

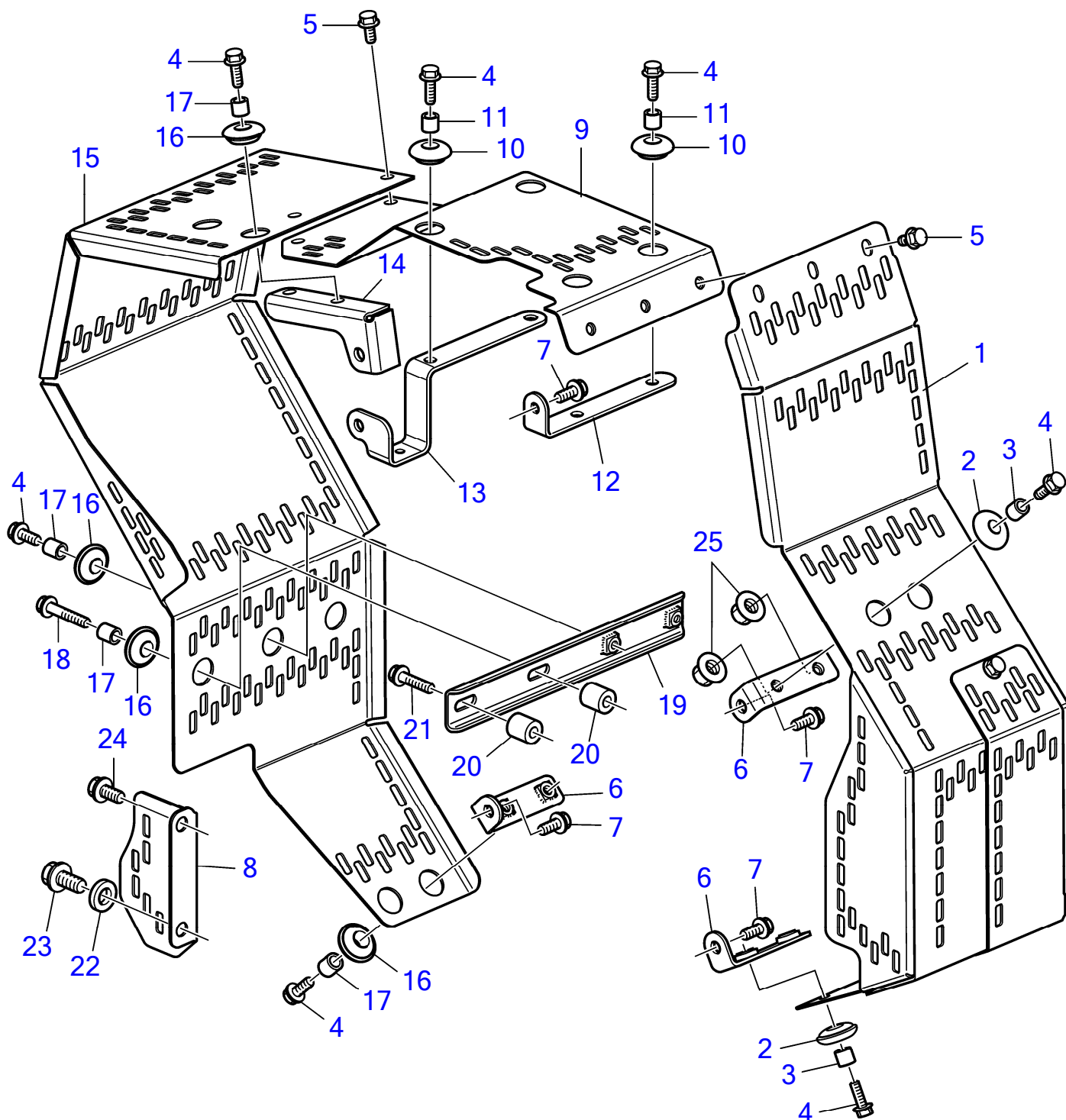
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TAD1640VE-B, TAD1641VE-B, TAD1642VE-B

Ref	Part No.	Qty	Description	Notes
1		1	Cooling package	Obsolete part
		1	Cooling package	
2	1674916	1	Expansion tank	
3	942810	2	Clamp	
4	984734	2	Flange screw	
5	994565	4	Hose clamp	
6	21888852	1	Hose	
7	3827612	1	Fan ring	
8	3828963		Fan	Suction type
	3828964	1	Fan	Pusher type
9	3829537	1	Fan hub	Pusher type, L=195mm
	21418129	1	Fan hub	Suction type, L=210mm
10	990941	6	Flange nut	
11	130204	6	Stud	Pusher type
	981952	6	Stud	Suction type
12	20435760	8	Hose clamp	
13	3838792	3	Charge air hose	
14	22185615	1	Pipe	
15	22546256	1	Brace	SN-2016110739
16	984752	2	Flange screw	
17	22488137	2	Attaching fitting	
18	866857	2	· Rubber bushing	
19	866857	2	Rubber bushing	
20	990942	2	Flange nut	
21	3594409	1	Bracket	
22	984753	3	Flange screw	
23	22036724	1	Bracket	
24	980464	1	Cable tie	
25	22118112	2	Fan guard	
26	984734	12	Flange screw	
27	976944	12	Washer	
28	21888849	1	Hose	
29	21888843	1	Pipe	
	22496578	1	Charge air pipe	SN-2016102240
	22828397	1	Charge air pipe	SN2016102241-
30	948211	2	Cable tie	
31	990810	2	Flange screw	
32	3843123	1	Bracket	
33		1	Bracket	
34	3843090	1	Bracket	
35	984734	5	Flange screw	
36	941976	1	Clamp	
37		1	Bracket	
38	984739	2	Flange screw	
39	984733	4	Flange screw	
40	994386	1	Flange screw	
41	848694	1	Spacer sleeve	
42	22488137	2	Attaching fitting	Included 1 pcs 866857
43	866857	4	· Rubber bushing	
44	22430803	2	Spacer sleeve	
45	60113331	2	Washer	
46	990942	2	Flange nut	
47	969445	2	Flange screw	
48	23109845	1	Stay	SN2016110740-
49	980464	5	Cable tie	
50	23276869	1	Bracket	
51	23276871	1	Bracket	
52	984752	10	Flange screw	
53	22198506	1	Hose	
54	994561	2	Hose clamp	
55	22827408	1	Bracket	
56	995463	2	Flange screw	
57	941976	1	Clamp	
58	984736	2	Flange screw	
59	22285230	1	Clamping brace	
60	22285225	1	Clamping brace	
61	984734	2	Flange screw	
62	3838792	1	Charge air hose	SN-2016102240
	3829133	1	Charge air hose	SN2016102241-



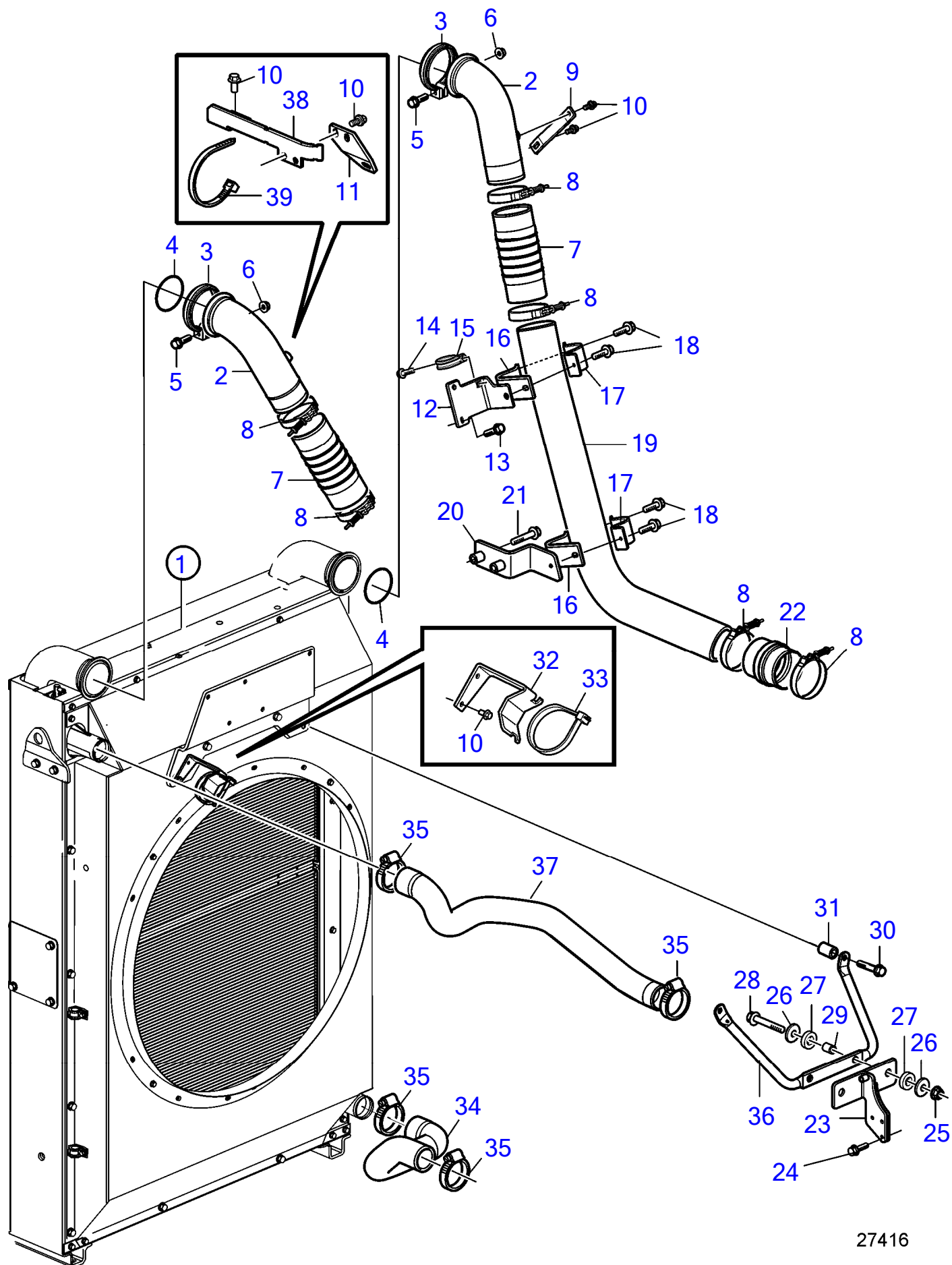
26 Radiator grille SN2016079648-TAD1641VE, TAD1642VE, TAD1643VE, TAD1650VE, TAD1660VE, TAD1661VE, TAD1662VE,
TAD1640VE-B, TAD1641VE-B, TAD1642VE-B

Ref	Part No.	Qty	Description
1	22052261	1	Radiator grille
2	846118	1	Emblem
3	969514	2	Six point socket scr
4	994383	6	Flange screw
5	976944	6	Washer



23746

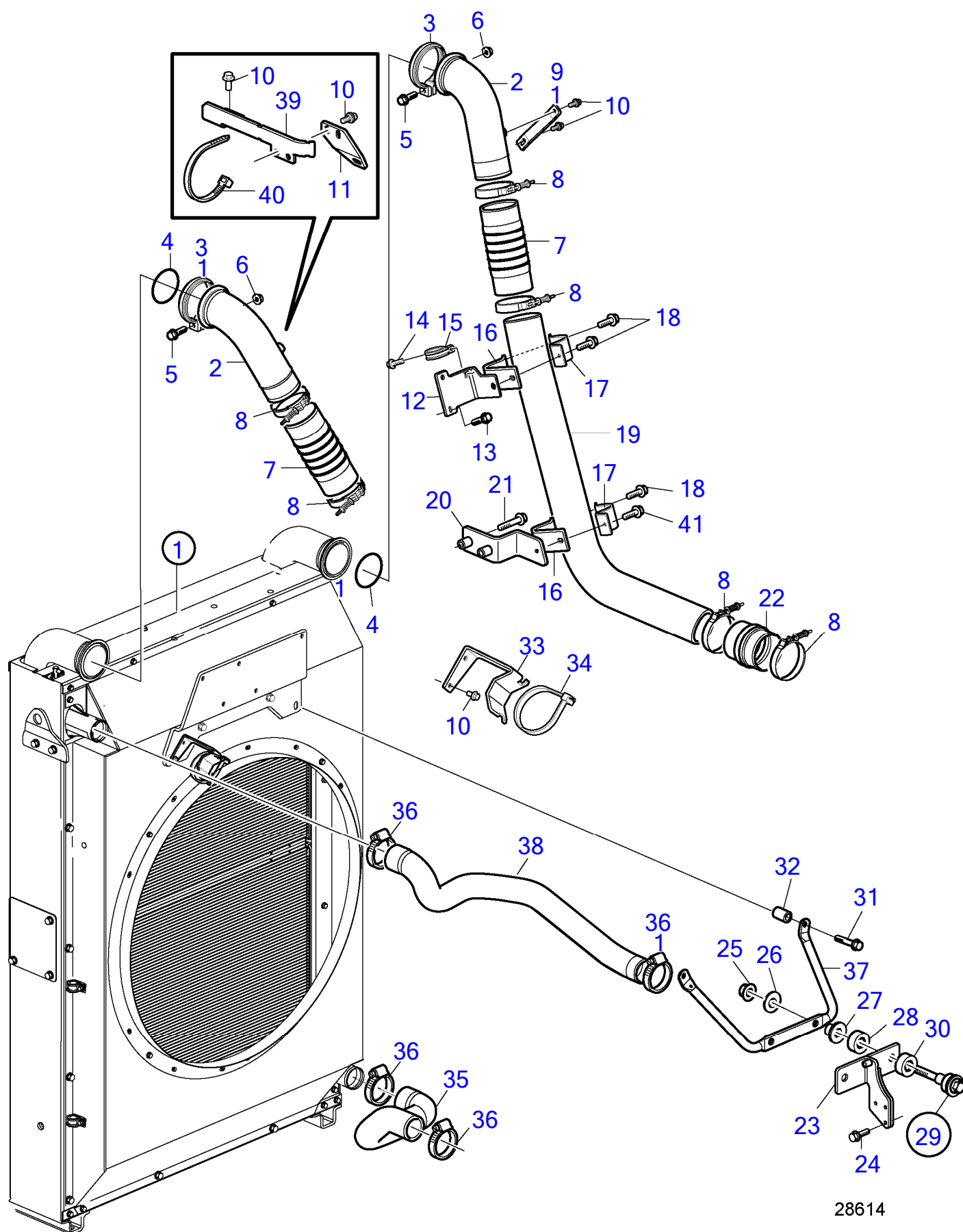
Ref	Part No.	Qty	Description	Notes
1	3843179	1	Protecting screen	
2	3883499	4	• Rubber bushing	
3	3830336	4	• Spacer	
4	984734	16	Flange screw	
5	984732	8	Flange screw	
6	3828856	3	Bracket	
7	984733	4	Flange screw	
8	3818878	1	Protecting screen	
9	3843181	1	Protecting screen	
10	3883499	4	• Rubber bushing	
11	3830336	4	• Spacer	
12	3883529	1	Bracket	
13	3839523	1	Bracket	
14	3819961	1	Bracket	
15	21276410	1	Protecting screen	
16	3883499	7	• Rubber bushing	
17	3830336	7	• Spacer	
18	994385	1	Flange screw	
19	3819955	1	Bracket	
20	826652	2	Spacer sleeve	
21	984737	2	Flange screw	
22	847237	1	Spacer sleeve	
23	946502	1	Flange screw	
24	994393	1	Flange screw	
25	990940	2	Flange nut	use nuts when no welding nut on pos 19



**26 Radiator and Charge Air Cooler with Connections, Suction,
SN2016079648-SN2016287576**

TAD1641VE, TAD1642VE, TAD1643VE, TAD1660VE, TAD1661VE, TAD1662VE, TAD1640VE-B,
TAD1641VE-B, TAD1642VE-B

Ref	Part No.	Qty	Description	Notes
1		1	Radiator	
2	22032365	2	Connecting pipe	
3	3033054	4	V-clamp	
4	949647	2	O-ring	
5	994441	2	Flange screw	
6	990950	2	Flange lock nut	
7	3829133	2	Charge air hose	
8	20435760	6	Hose clamp	
9	22091985	1	Bracket	
10	984733	4	Flange screw	
11	22302484	1	Bracket	
12	22285210	1	Bracket	Replaced by 23242492
	23242492	1	Bracket	
13	984733	4	Flange screw	
14	984734	1	Flange screw	
15	941976	1	Clamp	
16	22285230	2	Clamping brace	
17	22285225	2	Clamping brace	
18	984734	4	Flange screw	
19	22036946	1	Charge air pipe	Replaced by 22494914
	22494914	1	Charge air pipe	
20	22285216	1	Bracket	Replaced by 22757119
	22757119	1	Bracket	
21	990813	2	Flange screw	
22	3838792	1	Charge air hose	
23	3594409	1	Bracket	
24	984753	3	Flange screw	
25	990944	2	Flange nut	
26	948556	4	Washer	
27	866857	4	Rubber bushing	
28	984836	2	Flange screw	
29	252202	2	Spacer sleeve	
30	984752	2	Flange screw	
31	849352	2	Spacer sleeve	
32	22101499	1	Bracket	
33	978435	1	Cable tie	
34	22037699	1	Hose	
35	994565	4	Hose clamp	
36	3593807	1	Stay	
37	22134870	1	Hose	
38	22302483	1	Bracket	
39	948211	2	Cable tie	

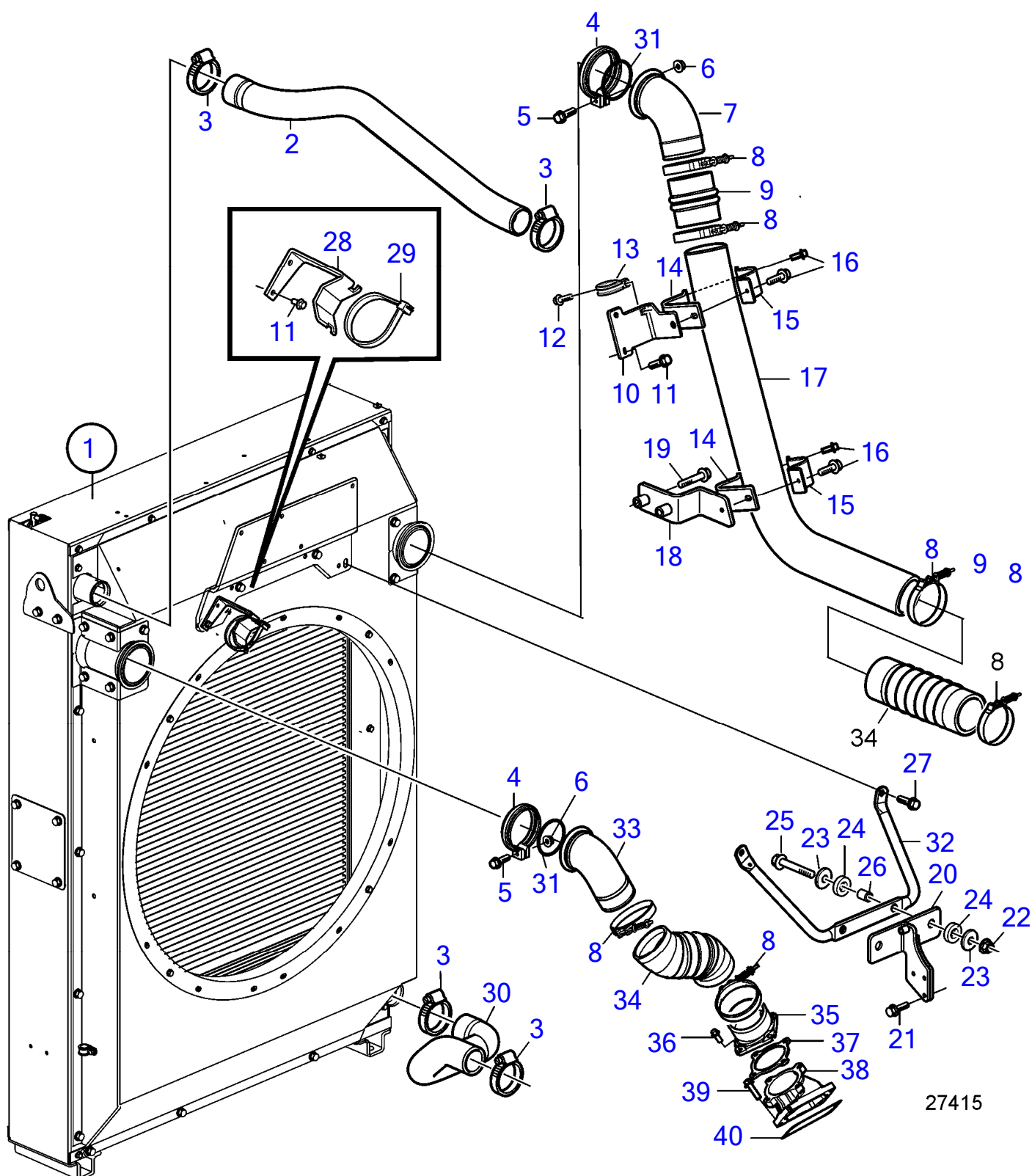


28614

26 Radiator and Charge Air Cooler with Connections, Suction, SN2016287577-

TAD1641VE, TAD1642VE, TAD1643VE, TAD1660VE, TAD1661VE, TAD1662VE, TAD1640VE-B,
TAD1641VE-B, TAD1642VE-B

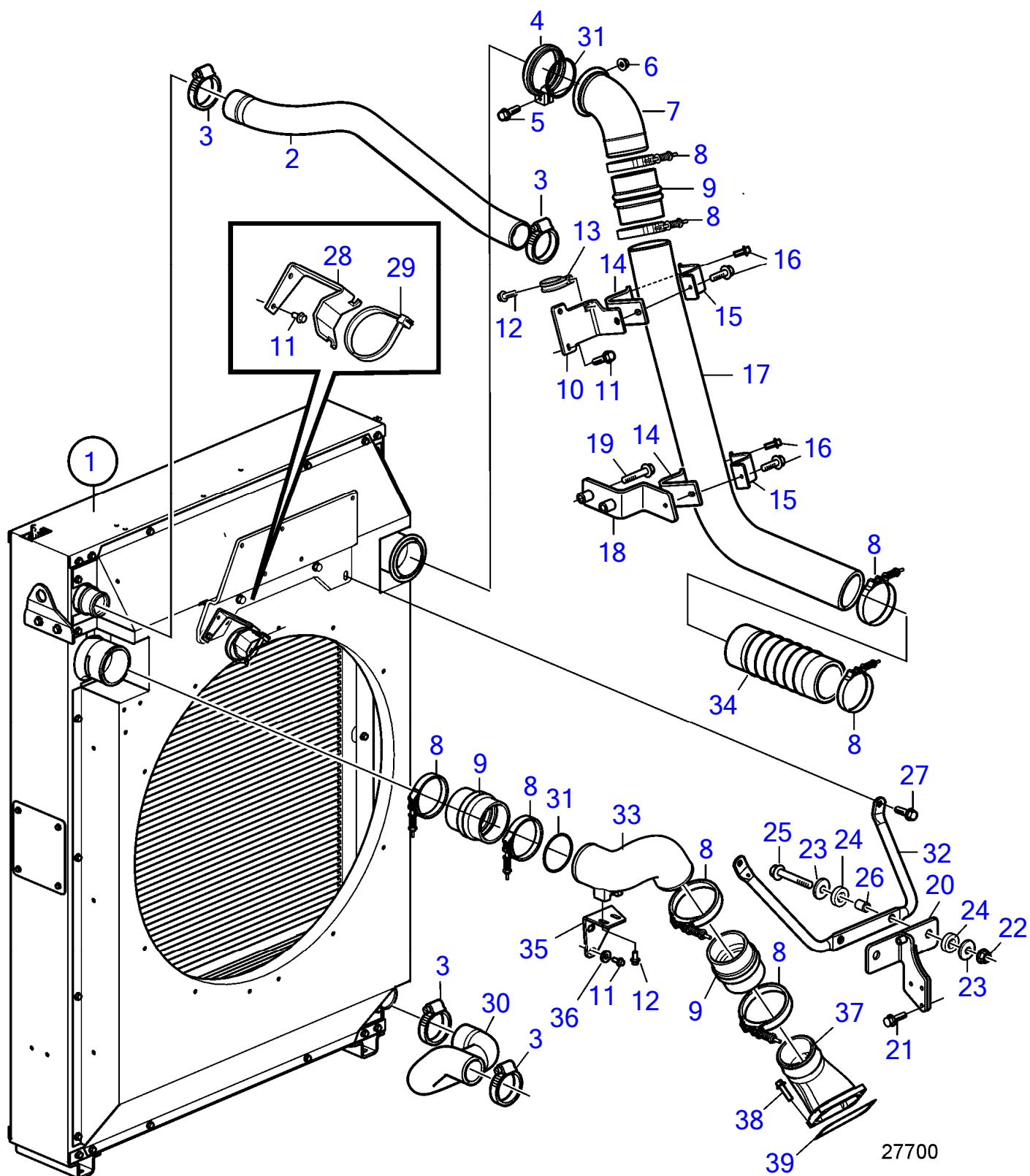
Ref	Part No.	Qty	Description	Notes
1		1	Radiator	
2	22032365	2	Connecting pipe	
3	3033054	4	V-clamp	
4	949647	2	O-ring	
5	994441	2	Flange screw	
6	990950	2	Flange lock nut	
7	3829133	2	Charge air hose	
8	20435760	6	Hose clamp	
9	22091985	1	Bracket	
10	984733	4	Flange screw	
11	22302484	1	Bracket	
12	22285210	1	Bracket	Replaced by 23242492
	23242492	1	Bracket	
13	984733	4	Flange screw	
14	984734	1	Flange screw	
15	941976	1	Clamp	
16	22285230	2	Clamping brace	
17	22285225	2	Clamping brace	
18	984734	3	Flange screw	
19	22036946	1	Charge air pipe	
20	22285216	1	Bracket	Replaced by 22757119
	22757119	1	Bracket	
21	990813	2	Flange screw	
22	3838792	1	Charge air hose	
23	3594409	1	Bracket	
24	984753	3	Flange screw	
25	990942	2	Flange nut	
26	948556	2	Washer	
27	22430803	2	Spacer sleeve	
28	866857	2	Rubber bushing	
29	22488137	2	Attaching fitting	
30	866857	2	· Rubber bushing	
31	984752	2	Flange screw	
32	849352	2	Spacer sleeve	
33	22101499	1	Bracket	
34	978435	1	Cable tie	
35	22037699	1	Hose	
36	994565	4	Hose clamp	
37	3593807	1	Stay	
38	22134870	1	Hose	
39	22302483	1	Bracket	
40	948211	2	Cable tie	
41	984736	1	Flange screw	



**26 Radiator and Charge Air Cooler with Connections, Pushing,
SN2016079648-SN2016084273**

TAD1641VE, TAD1642VE, TAD1643VE, TAD1640VE-B, TAD1641VE-B, TAD1642VE-B

Ref	Part No.	Qty	Description	Notes
1		1	Radiator	
2	22140179	1	Hose	
3	994565	4	Hose clamp	
4	3033054	2	V-clamp	
5	994441	2	Flange screw	
6	990950	2	Flange lock nut	
7	22035260	1	Connecting pipe	
8	20435760	6	Hose clamp	
9	3838792	2	Charge air hose	
10	22285210	1	Bracket	Replaced by 23242492
	23242492	1	Bracket	
11	984733	4	Flange screw	
12	984734	1	Flange screw	
13	941976	1	Clamp	
14	22285230	2	Clamping brace	
15	22285225	2	Clamping brace	
16	984734	4	Flange screw	
17	22027470	1	Charge air pipe	Replaced by 22494914
	22494914	1	Charge air pipe	
18	22285216	1	Bracket	Replaced by 22757119
	22757119	1	Bracket	
19	990813	2	Flange screw	
20	3594409	1	Bracket	
21	984753	3	Flange screw	
22	990944	2	Flange nut	
23	948556	4	Washer	
24	866857	4	Rubber bushing	
25	984836	2	Flange screw	
26	252202	2	Spacer sleeve	
27	984752	2	Flange screw	
28	22162119	1	Bracket	
29	978435	1	Cable tie	
30	22037699	1	Hose	
31	949647	2	O-ring	
32	3593807	1	Stay	
33	22035260	1	Connecting pipe	
34	3829133	2	Charge air hose	
35	22150844	1	Connecting pipe	
36	984734	4	Flange screw	
37	21313833	1	Gasket	
38	21308891	1	Charge air pipe	
39	984736	4	Flange screw	
40	3979639	1	Plane gasket	



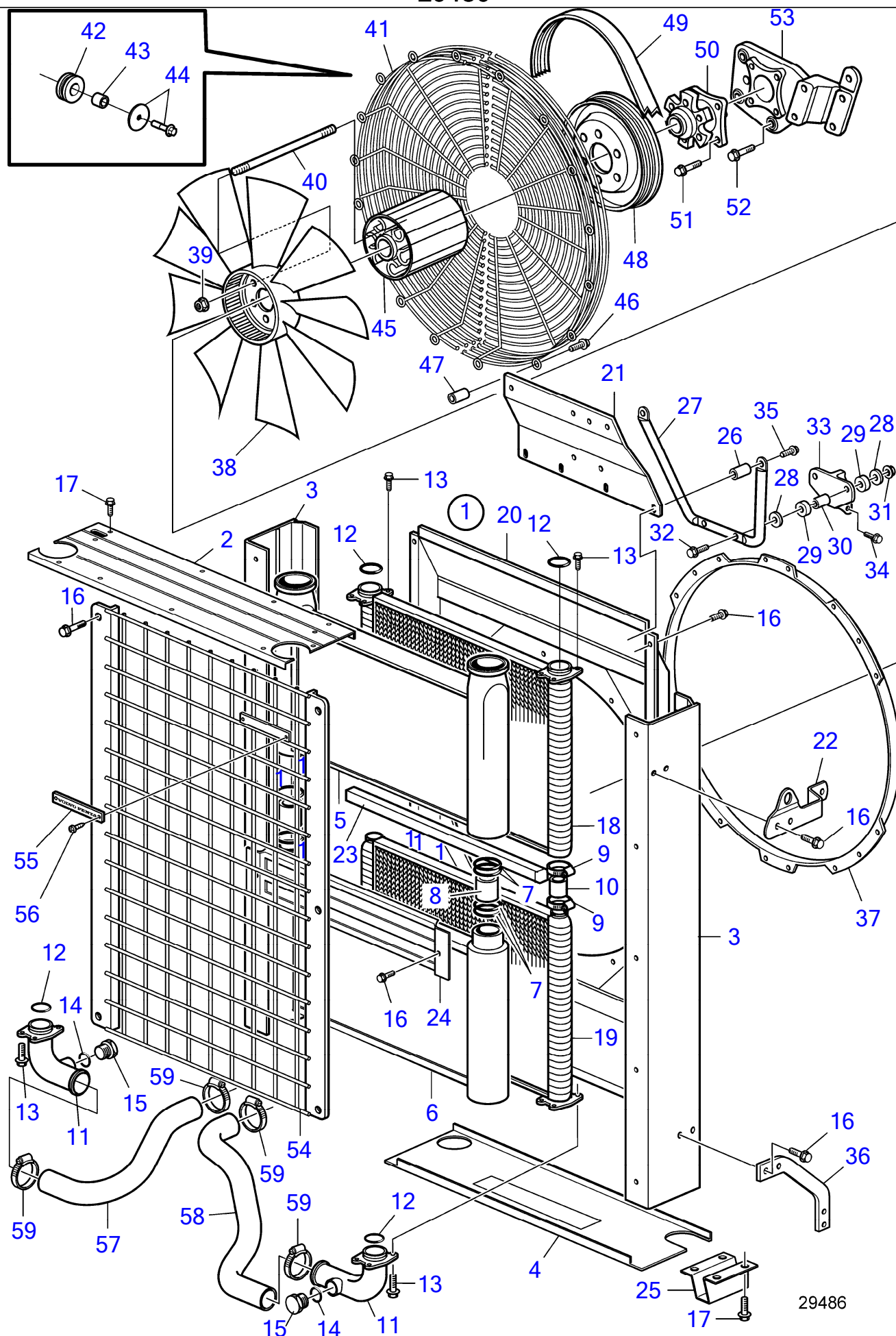
27700

**26 Radiator and Charge Air Cooler with Connections, Pushing,
SN2016084274-SN2016087576**

TAD1641VE, TAD1642VE, TAD1643VE, TAD1640VE-B, TAD1641VE-B, TAD1642VE-B

Ref	Part No.	Qty	Description	Notes
1		1	Radiator	
2	22140179	1	Hose	
3	994565	4	Hose clamp	
4	3033054	1	V-clamp	
5	994441	1	Flange screw	
6	990950	1	Flange lock nut	
7	22035260	1	Connecting pipe	
8	20435760	8	Hose clamp	
9	3838792	3	Charge air hose	
10	22285210	1	Bracket	Replaced by 23242492
	23242492	1	Bracket	
11	984733	9	Flange screw	
12	984734	1	Flange screw	
13	941976	1	Clamp	
14	22285230	2	Clamping brace	
15	22285225	2	Clamping brace	
16	984734	4	Flange screw	
17	22027470	1	Charge air pipe	Replaced by 22494914
	22494914	1	Charge air pipe	
18	22285216	1	Bracket	Replaced by 22757119
	22757119	1	Bracket	
19	990813	2	Flange screw	
20	3594409	1	Bracket	
21	984753	3	Flange screw	
22	990944	2	Flange nut	
23	948556	4	Washer	
24	866857	4	Rubber bushing	
25	984836	2	Flange screw	
26	252202	2	Spacer sleeve	
27	984752	2	Flange screw	
28	22162119	1	Bracket	
29	978435	1	Cable tie	
30	22037699	1	Hose	
31	949647	2	O-ring	
32	3593807	1	Stay	
33	22446058	1	Connecting pipe	
34	3829133	1	Charge air hose	
35	22471286	1	Bracket	
36	976944	3	Washer	
37	22150870	1	Charge air pipe	
38	984744	4	Flange screw	
39	3979639	1	Plane gasket	

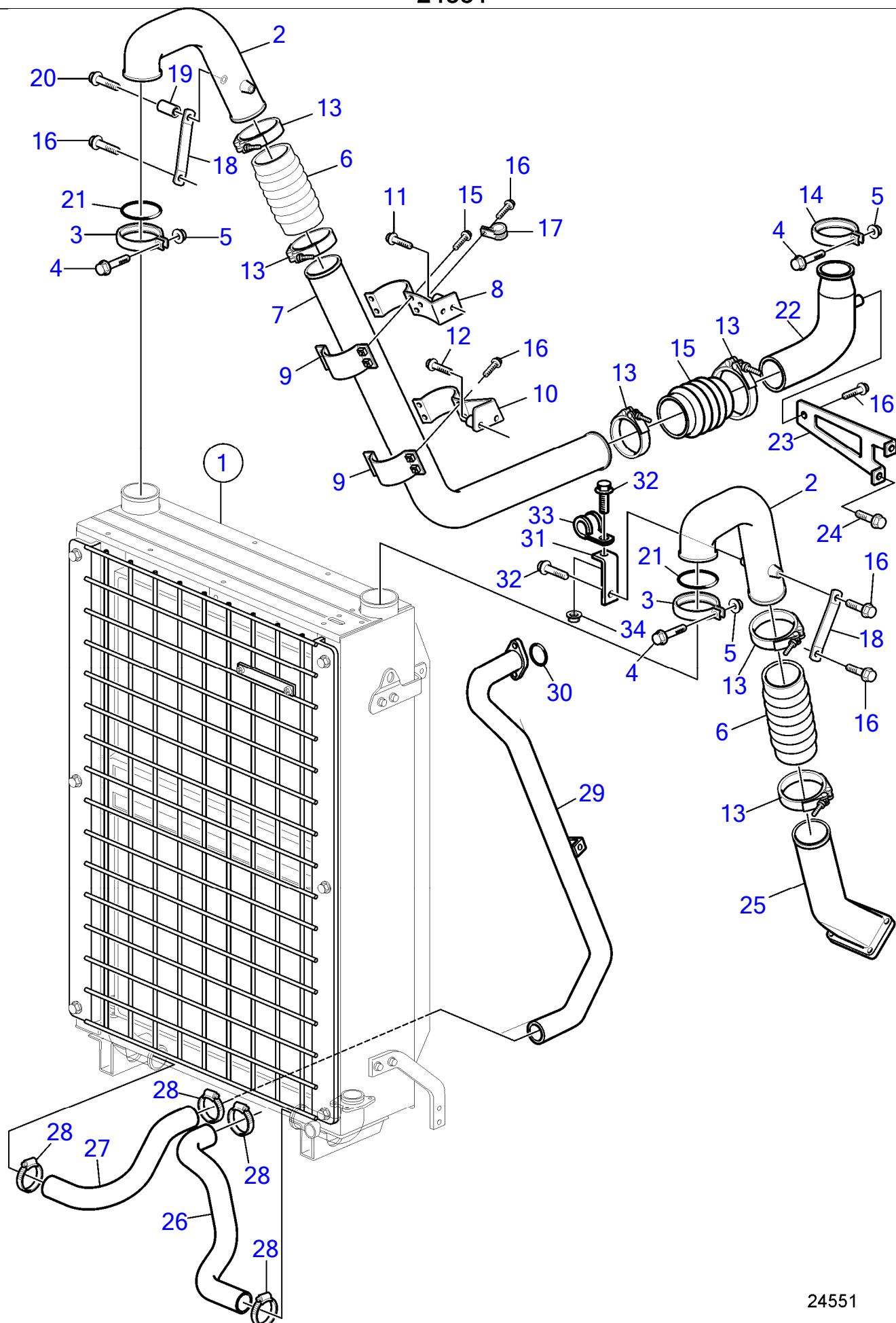
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TAD1662VE, TAD1640VE-B, TAD1641VE-B, TAD1642VE-B, TAD1660-62VE
29486



29486

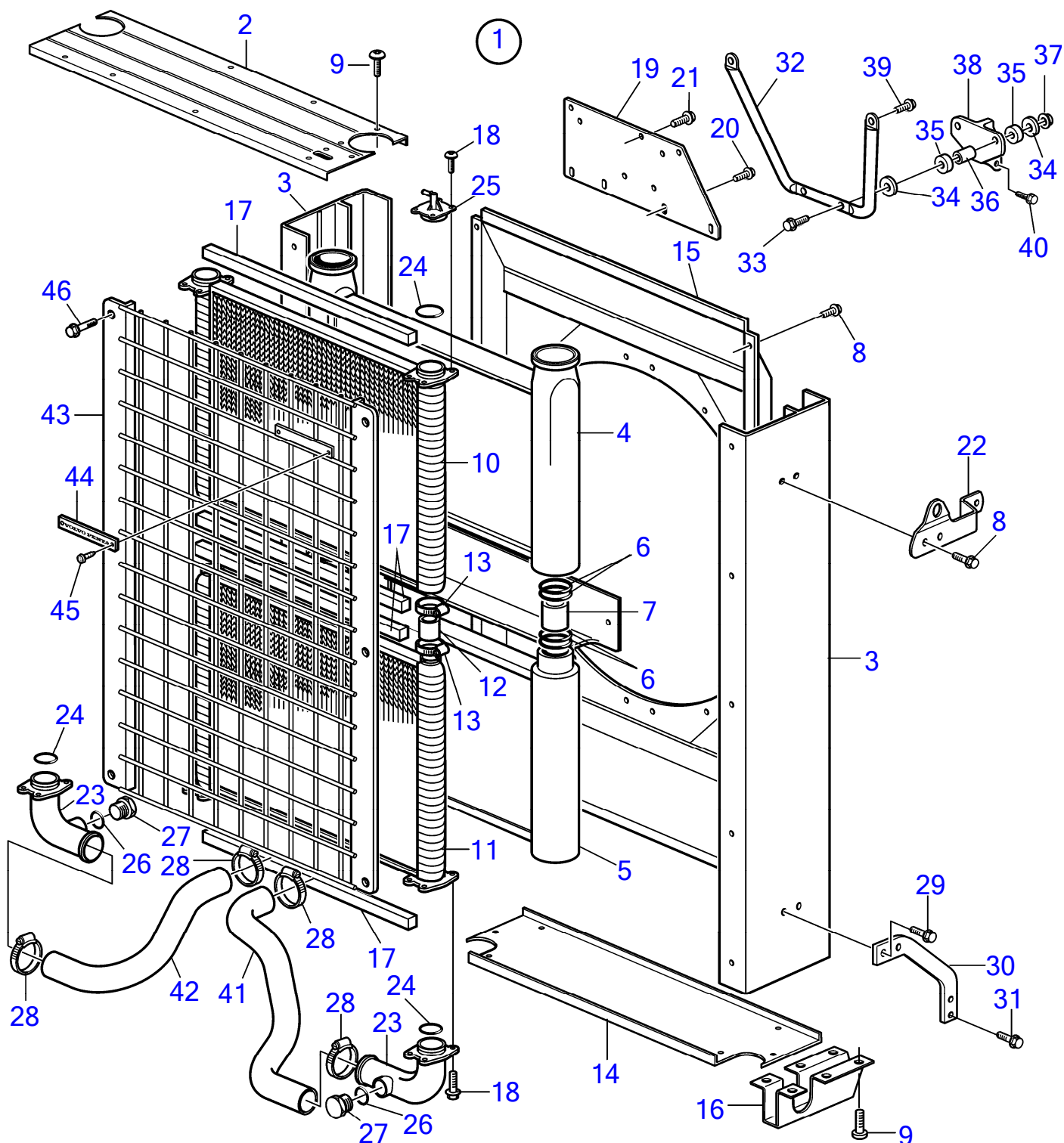
Ref	Part No.	Qty	Description	Notes
1		1	Cooling package	
2	21134770	1	• Frame profile	
3	21134766	2	• Frame profile	
4	21134775	1	• Frame profile	
5	3838129	1	• Charge air cooler	
6	3587692	1	• Charge air cooler	
7	3587694	8	• O-ring	
8	3587693	2	• Intermediate pipe	
9	943478	4	• Hose clamp	
10	21134129	2	• Hose	
11	21134796	2	• Hose connection	
12	21138584	4	• O-ring	
13		24	• Screw	
14	21147027	2	• O-ring	
15	21147028	2	• Plug	
16	984733	20	• Flange screw	
17	3587729	18	• Screw	
18	21134096	1	• Radiator	
19	21133904	1	• Radiator	
20	21135099	1	• Fan shroud	
21	21147050	1	• Bracket	
22	3830509	1	• Bracket	Right
	3830508	1	• Bracket	Left
23	3587741	4	• Sealing strip	
24	3588348	1	• Lid	
25	21134779	2	• Base	
26	849352	2	Spacer sleeve	
27	3593807	1	Stay	
28	948556	4	Washer	
29	866857	4	Rubber bushing	
30	252202	1	Spacer sleeve	
31	966818	2	Flange nut	
32	968302	2	Flange screw	
33	3594409	1	Bracket	
34	984753	3	Flange screw	
35	984758	2	Flange screw	
36	3808825	1	Bracket	Right
	3808827	1	Bracket	Left
37	3827612	1	Fan ring	SN-2016108826
	78467816	1	Fan ring	SN2016108827-
38	3828963	1	Fan	
39	990941	6	Flange nut	
40	130204	6	Stud	
41	3825490	2	Fan guard	SN-2016108826
			• Bulletin p-26-1-111	New Fan Guard
41	78467466	2	Fan guard	SN2016108827-
42	21860181	12	• Rubber damper	
43	845988	12	• Spacer sleeve	
44	22147274	12	• Flange screw	
45	3829537	1	Fan hub	
46	994386	12	Flange screw	For Fan Guard 3825490
47	807257	12	Spacer sleeve	For Fan Guard 3825490
48	3829958	1	Pulley	
49	3838617	1	V-ribbed belt	
50	3829537	1	Fan hub	
51	984754	4	Flange screw	
52	965221	5	Flange screw	
53	3830000	1	Bracket	
54	3829123	1	Radiator protector	Replaced by 21154155
	21154155	1	Radiator protector	
55	846118	1	Emblem	
56	941651	2	Cross recessed sunk	
57	3886478	1	Radiator hose	
58	3886480	1	Radiator hose	
59	943480	4	Hose clamp	

TAD1641VE, TAD1642VE, TAD1643VE, TAD1650VE, TAD1660VE, TAD1661VE,
TAD1662VE, TAD1640VE-B, TAD1641VE-B, TAD1642VE-B, TAD1660-62VE
24551

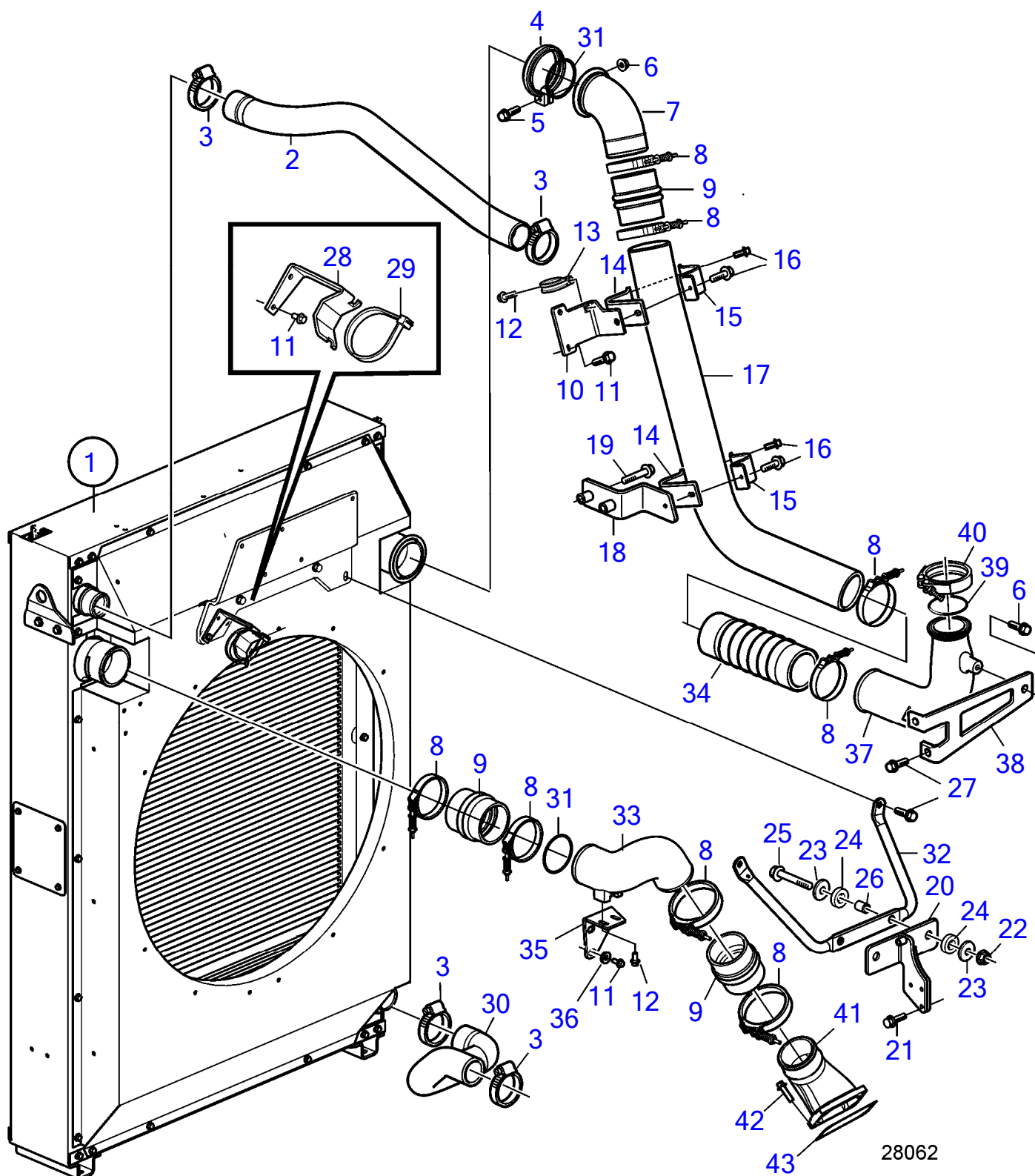


24551

Ref	Part No.	Qty	Description	Notes
1			Radiator	
			.	
2	3829131	2	Connecting pipe	
3	3033054	2	V-clamp	(3033054)
4	973924	2	Flange screw	
5	990950	2	Flange lock nut	
6	3829133	2	Charge air hose	
7	3838798	1	Charge air pipe	
8	3843126	1	Bracket	
9	3843090	2	Bracket	
10	3843123	1	Bracket	
11	973924	2	Flange screw	(965179)
12	973924	1	Flange screw	
13	20435760	6	Hose clamp	
14	3886542	1	V-clamp	
15	3838792	1	Charge air hose	
16	984734	13	Flange screw	
17	941976	1	Clamp	
18	3838914	2	Bracket	
19	847150	1	Spacer sleeve	
20	984737	1	Flange screw	
21	949647	2	O-ring	
22	21159129	1	Connecting pipe	
23	21205043	1	Bracket	
24	984752	2	Flange screw	
25			Charge air pipe	
26	3886480	1	Radiator hose	
27	3886478	1	Radiator hose	
28	943480	4	Hose clamp	
29	21158652	1	Coolant pipe	
30	975675	1	O-ring	
31	965558	1	Bracket	
32	984734	2	Flange screw	
33	952630	1	Clamp	
34	990940	1	Flange nut	



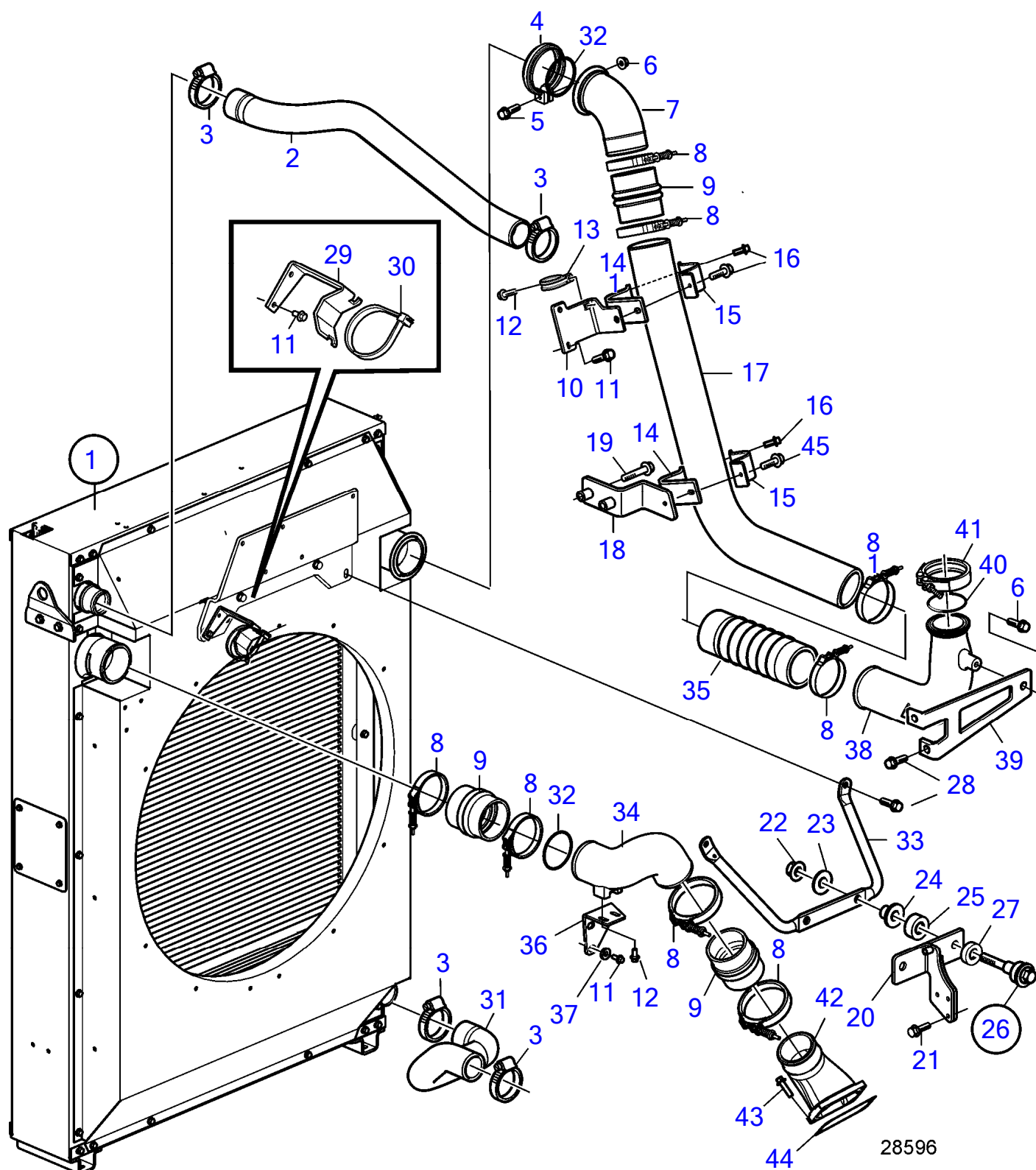
Ref	Part No.	Qty	Description	Notes
1	(3885433)	1	Cooling package	Obsolete part
2	21134770	1	• Frame profile	
3	21134766	2	• Frame profile	
4	3838129	1	• Charge air cooler	
5	3587692	1	• Charge air cooler	
6	3587694	8	• O-ring	
7	3587693	2	• Intermediate pipe	
8	984733	20	• Flange screw	
9	3587729	22	• Screw	
10	21134096	1	• Radiator	
11	21133904	1	• Radiator	
12	21134129	2	• Hose	
13	943478	4	• Hose clamp	
14	21134775	1	• Frame profile	
15	3838131	1	• Fan shroud	
16	21134779	2	• Base	
17	3587741	4	• Sealing strip	
18		24	• Screw	
19	3587730	1	• Bracket	
20	984752	2	• Flange screw	
21	984734	3	• Flange screw	
22	3830509	1	• Bracket	Left
	3830508	1	• Bracket	Right
23	21134796	2	• Hose connection	
24	21138584	2	• O-ring	
25	21147027	2	• O-ring	
26	21134814	1	• Cover	
27	21147028	2	• Plug	
28	943480	4	Hose clamp	
29	984735	4	Flange screw	
30	3808827	1	Bracket	Left
	3808825	1	Bracket	Right
31	984734	4	Flange screw	
32	3593807	1	Stay	
33	968302	2	Flange screw	
34	948556	4	Washer	
35	866857	4	Rubber bushing	
36	252202	2	Spacer sleeve	
37	966818	2	Flange nut	
38	3594409	1	Bracket	
39	946472	2	Flange screw	
40	984753	3	Flange screw	
41	3886480	1	Radiator hose	
42	3886478	1	Radiator hose	
43	3829123	1	Radiator protector	Replaced by 21154155
	21154155	1	Radiator protector	
44	846118	1	Emblem	
45	941651	2	Cross recessed sunk	
46	984733	6	Flange screw	



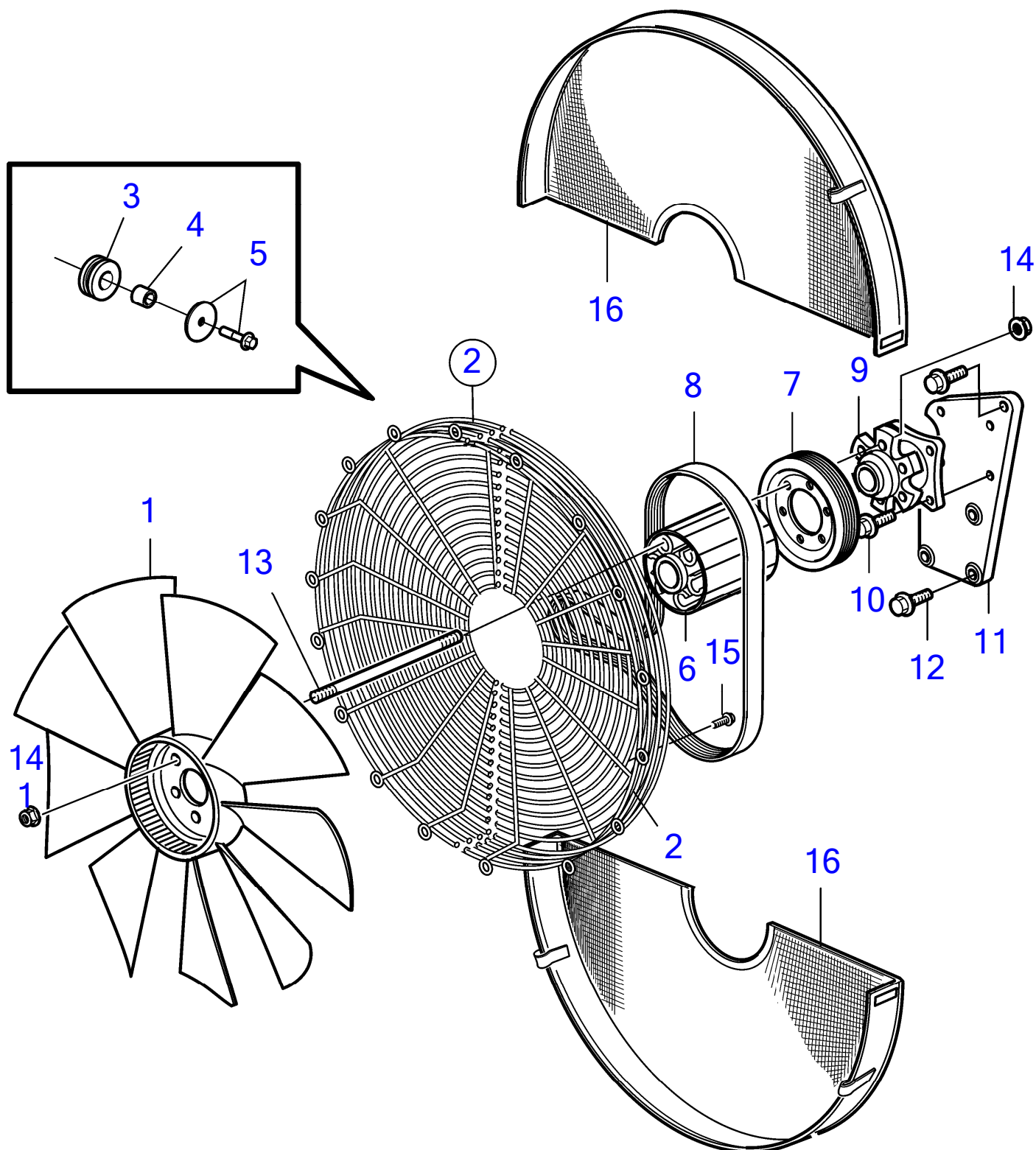
28062

TAD1650VE

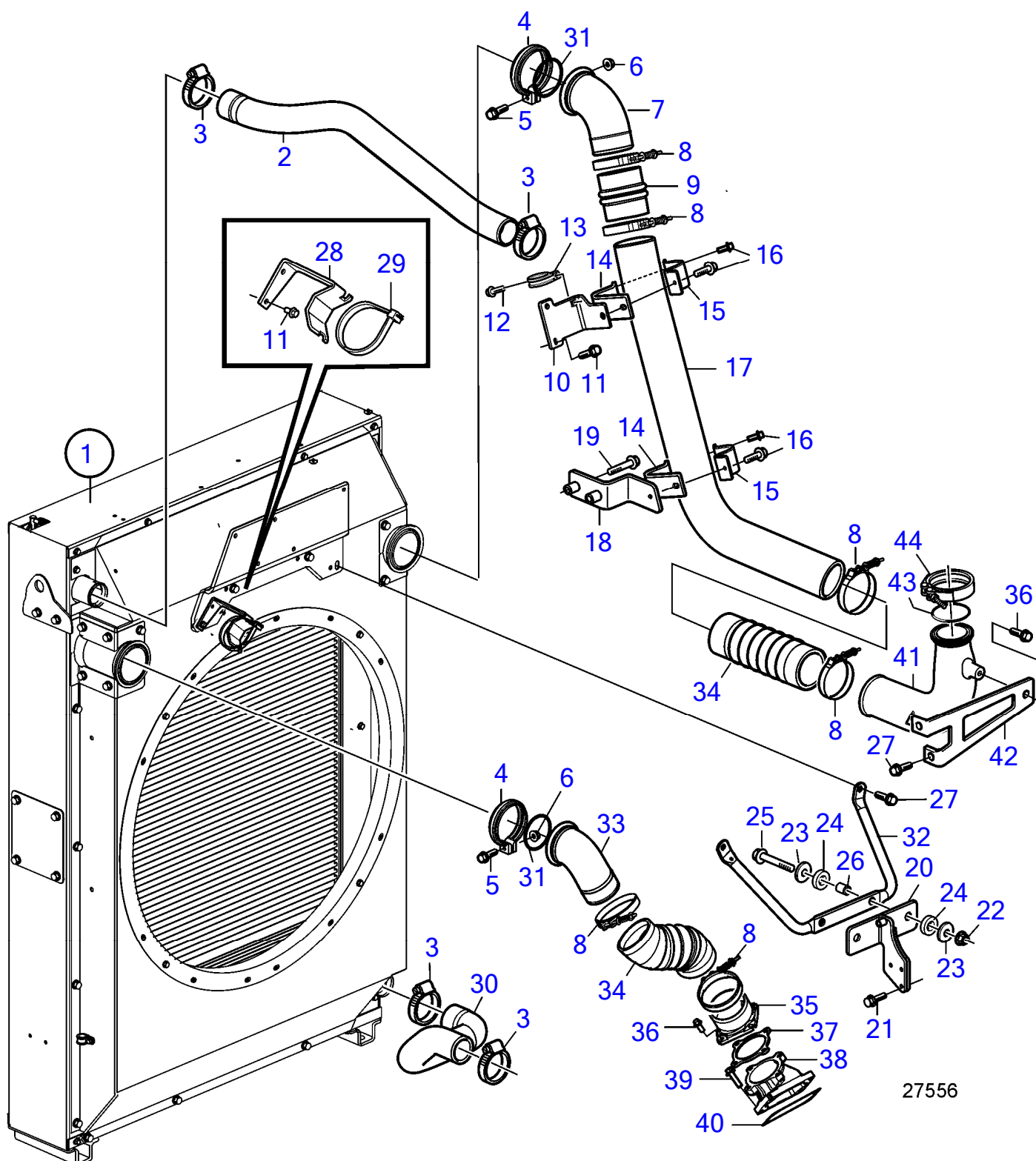
Ref	Part No.	Qty	Description	Notes
1		1	Radiator	
2	22140179	1	Hose	
3	994565	4	Hose clamp	
4	3033054	1	V-clamp	
5	994441	1	Flange screw	
6	990950	1	Flange lock nut	
7	22035260	1	Connecting pipe	
8	20435760	8	Hose clamp	
9	3838792	3	Charge air hose	
10	22285210	1	Bracket	Replaced by 23242492
	23242492	1	Bracket	
11	984733	9	Flange screw	
12	984734	2	Flange screw	
13	941976	1	Clamp	
14	22285230	2	Clamping brace	
15	22285225	2	Clamping brace	
16	984734	4	Flange screw	
17	22027470	1	Charge air pipe	Replaced by 22494914
	22494914	1	Charge air pipe	
18	22285216	1	Bracket	Replaced by 22757119
	22757119	1	Bracket	
19	990813	2	Flange screw	
20	3594409	1	Bracket	
21	984753	3	Flange screw	
22	990944	2	Flange nut	
23	948556	4	Washer	
24	866857	4	Rubber bushing	
25	984836	2	Flange screw	
26	252202	2	Spacer sleeve	
27	984752	6	Flange screw	
28	22162119	1	Bracket	
29	978435	1	Cable tie	
30	22037699	1	Hose	
31	949647	2	O-ring	
32	3593807	1	Stay	
33	22446058	1	Connecting pipe	
34	3829133	1	Charge air hose	
35	22471286	1	Bracket	
36	976944	3	Washer	
37	22322833	1	Connecting pipe	
38	21205043	1	Bracket	
39	1675066	1	Sealing ring	
40	3886542	1	V-clamp	
41	22150870	1	Charge air pipe	
42	984744	4	Flange screw	
43	3979639	1	Plane gasket	



Ref	Part No.	Qty	Description	Notes
1		1	Radiator	
2	22140179	1	Hose	
3	994565	4	Hose clamp	
4	3033054	1	V-clamp	
5	994441	1	Flange screw	
6	990950	1	Flange lock nut	
7	22035260	1	Connecting pipe	
8	20435760	8	Hose clamp	
9	3838792	3	Charge air hose	
10	22285210	1	Bracket	Replaced by 23242492
	23242492	1	Bracket	
11	984733	9	Flange screw	
12	984734	2	Flange screw	
13	941976	1	Clamp	
14	22285230	2	Clamping brace	
15	22285225	2	Clamping brace	
16	984734	3	Flange screw	
17	22494914	1	Charge air pipe	
18	22285216	1	Bracket	Replaced by 22757119
	22757119	1	Bracket	
19	990813	2	Flange screw	
20	3594409	1	Bracket	
21	984753	3	Flange screw	
22	990942	2	Flange nut	
23	948556	2	Washer	
24	22430803	2	Spacer sleeve	
25	866857	2	Rubber bushing	
26	22488137	2	Attaching fitting	
27	866857	2	· Rubber bushing	
28	984752	6	Flange screw	
29	22162119	1	Bracket	
30	978435	1	Cable tie	
31	22037699	1	Hose	
32	949647	2	O-ring	
33	3593807	1	Stay	
34	22446058	1	Connecting pipe	
35	3829133	1	Charge air hose	
36	22471286	1	Bracket	
37	976944	3	Washer	
38	22322833	1	Connecting pipe	
39	21205043	1	Bracket	
40	1675066	1	Sealing ring	
41	3886542	1	V-clamp	
42	22150870	1	Charge air pipe	
43	984744	4	Flange screw	
44	3979639	1	Plane gasket	
45	984736	1	Flange screw	

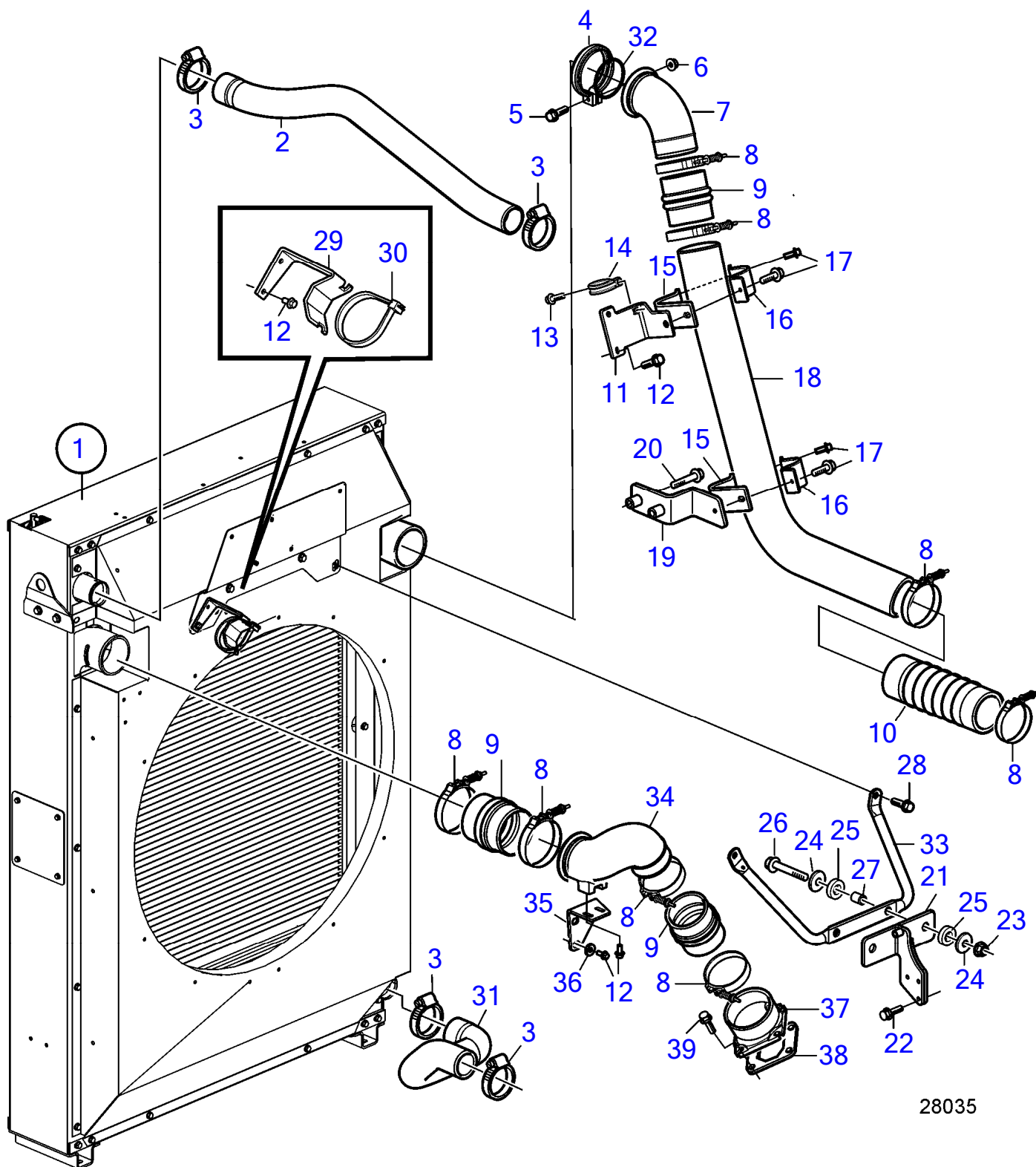


Ref	Part No.	Qty	Description	Notes
1	3828964	1	Fan	
2	3825490	2	Fan guard	SN-2016107282
			• Bulletin p-26-1-111	New Fan Guard
2	78467466	2	Fan guard	SN2016107283-
3	21860181	12	• Rubber damper	
4	845988	12	• Spacer sleeve	
5	22147274	12	• Flange screw	
6	3829537	1	Fan hub	
7	3828043	1	Pulley	
8	3827075	1	V-ribbed belt	
9	21924453	2	Fan hub	
10	984754	4	Flange screw	
11	3830000	1	Bracket	
12	965221	5	Flange screw	
13	130204	6	Stud	
14	990941	1	Flange nut	
15	984734	12	Flange screw	For Fan Guard 3825490
16	23215272	2	Filter netting	



TAD1650VE

Ref	Part No.	Qty	Description	Notes
1		1	Radiator	
2	22140179	1	Hose	
3	994565	4	Hose clamp	
4	3033054	2	V-clamp	
5	994441	2	Flange screw	
6	990950	2	Flange lock nut	
7	22035260	1	Connecting pipe	
8	20435760	6	Hose clamp	
9	3838792	2	Charge air hose	
10	22285210	1	Bracket	Replaced by 23242492
	23242492	1	Bracket	
11	984733	4	Flange screw	
12	984734	1	Flange screw	
13	941976	1	Clamp	
14	22285230	2	Clamping brace	
15	22285225	2	Clamping brace	
16	984734	4	Flange screw	
17	22027470	1	Charge air pipe	Replaced by 22494914
	22494914	1	Charge air pipe	
18	22285216	1	Bracket	Replaced by 22757119
	22757119	1	Bracket	
19	990813	2	Flange screw	
20	3594409	1	Bracket	
21	984753	3	Flange screw	
22	990944	2	Flange nut	
23	948556	4	Washer	
24	866857	4	Rubber bushing	
25	984836	2	Flange screw	
26	252202	2	Spacer sleeve	
27	984752	5	Flange screw	
28	22162119	1	Bracket	
29	978435	1	Cable tie	
30	22037699	1	Hose	
31	949647	2	O-ring	
32	3593807	1	Stay	
33	22035260	1	Connecting pipe	
34	3829133	2	Charge air hose	
35	22150844	1	Connecting pipe	
36	984734	5	Flange screw	
37	21313833	1	Gasket	
38	21308891	1	Charge air pipe	
39	984736	4	Flange screw	
40	3979639	1	Plane gasket	
41	22322833	1	Connecting pipe	
42	21205043	1	Bracket	
43	1675066	1	Sealing ring	
44	3886542	1	V-clamp	

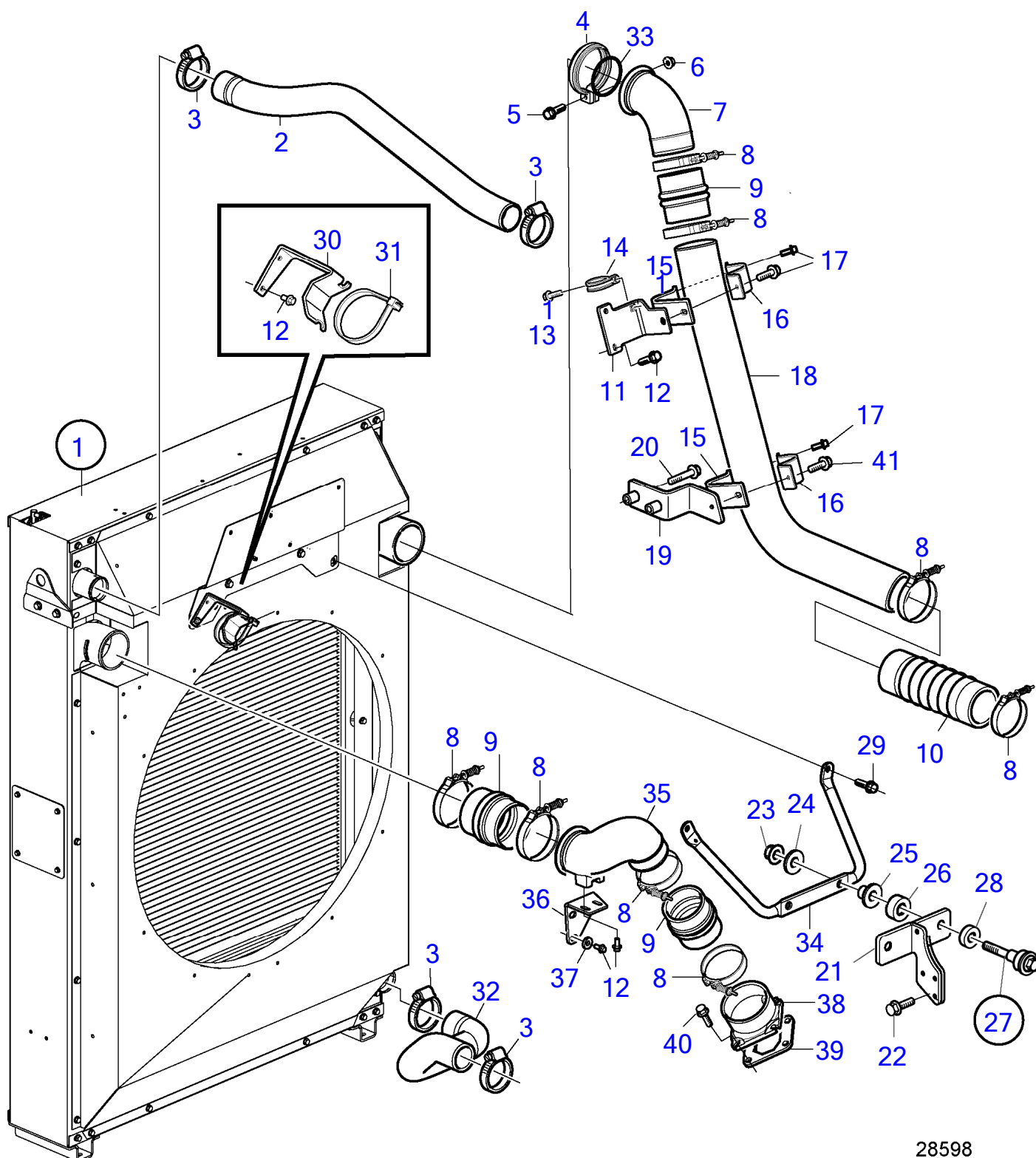


28035

**26 Radiator and Charge Air Cooler with Connections, Pushing,
SN2016084274-SN2016087576**

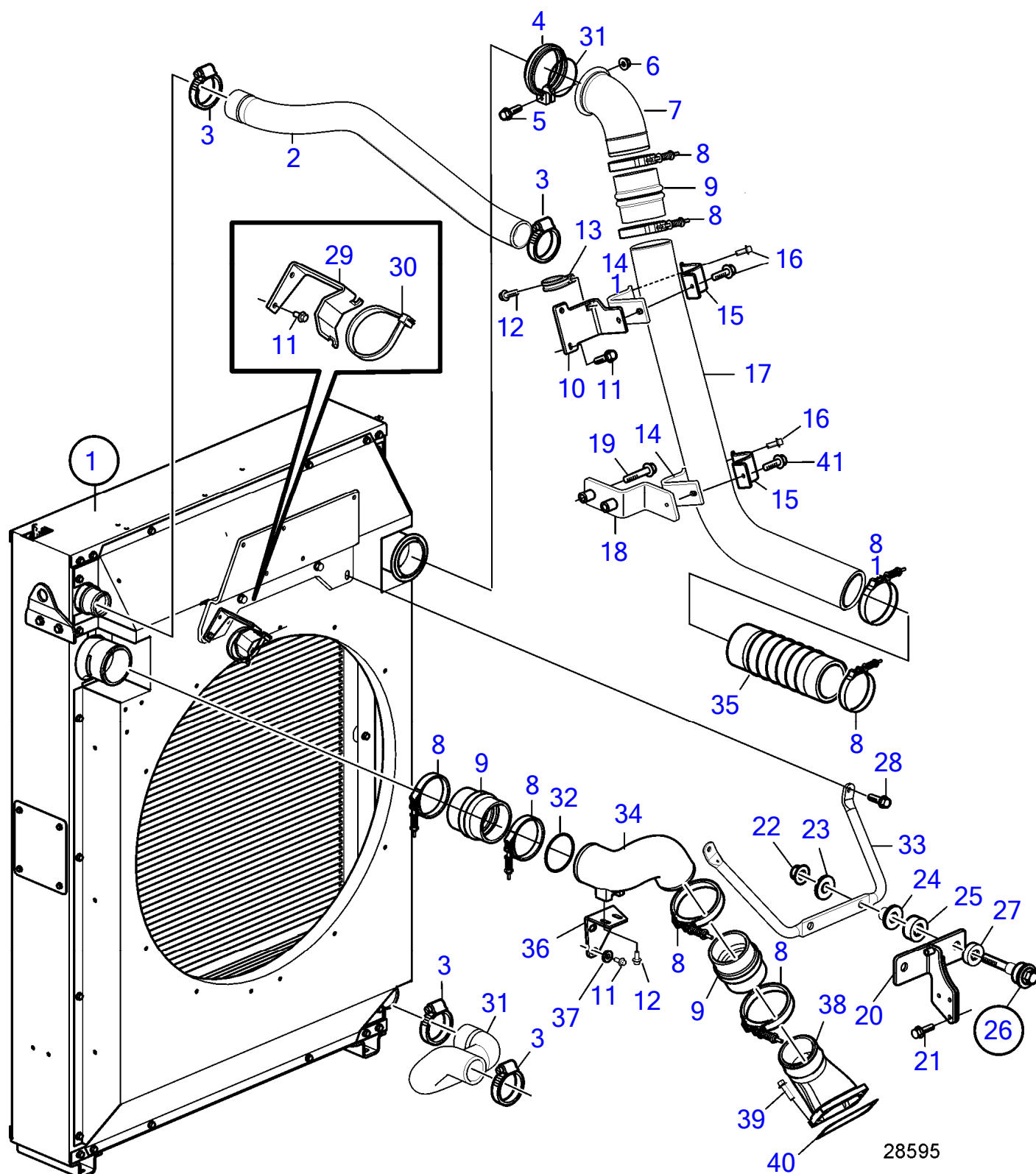
TAD1660VE, TAD1661VE, TAD1662VE

Ref	Part No.	Qty	Description	Notes
1		1	Radiator	
2	22140179	1	Hose	
3	994565	4	Hose clamp	
4	3033054	1	V-clamp	
5	994441	1	Flange screw	
6	990950	1	Flange lock nut	
7	22035260	1	Connecting pipe	
8	20435760	8	Hose clamp	
9	3838792	3	Charge air hose	
10	3829133	1	Charge air hose	
11	22285210	1	Bracket	Replaced by 23242492
	23242492	1	Bracket	
12	984733	9	Flange screw	
13	984734	1	Flange screw	
14	941976	1	Clamp	
15	22285230	2	Clamping brace	
16	22285225	2	Clamping brace	
17	984734	4	Flange screw	
18	22494914	1	Charge air pipe	
19	22285216	1	Bracket	Replaced by 22757119
	22757119	1	Bracket	
20	990813	2	Flange screw	
21	3594409	1	Bracket	
22	984753	3	Flange screw	
23	990944	2	Flange nut	
24	948556	4	Washer	
25	866857	4	Rubber bushing	
26	984836	2	Flange screw	
27	252202	2	Spacer sleeve	
28	984752	2	Flange screw	
29	22162119	1	Bracket	
30	978435	1	Cable tie	
31	22037699	1	Hose	
32	949647	1	O-ring	
33	3593807	1	Stay	
34	22446058	1	Connecting pipe	
35	22471286	1	Bracket	
36	976944	3	Washer	
37	22150844	1	Connecting pipe	
38	21313833	1	Gasket	
39	984744	4	Flange screw	

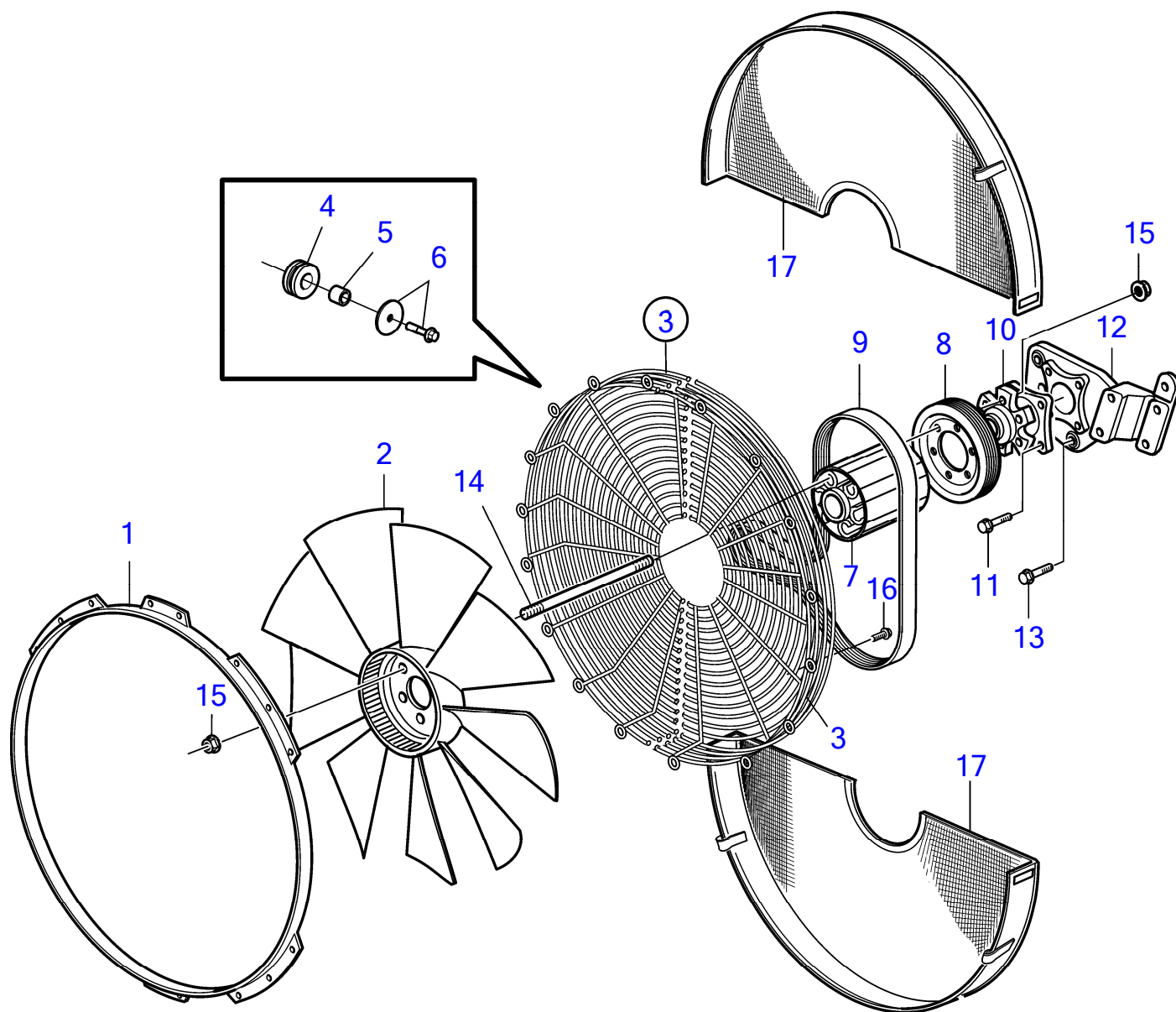


28598

Ref	Part No.	Qty	Description	Notes
1		1	Radiator	
2	22140179	1	Hose	
3	994565	4	Hose clamp	
4	3033054	1	V-clamp	
5	994441	1	Flange screw	
6	990950	1	Flange lock nut	
7	22035260	1	Connecting pipe	
8	20435760	8	Hose clamp	
9	3838792	3	Charge air hose	
10	3829133	1	Charge air hose	
11	22285210	1	Bracket	Replaced by 23242492
	23242492	1	Bracket	
12	984733	9	Flange screw	
13	984734	1	Flange screw	
14	941976	1	Clamp	
15	22285230	2	Clamping brace	
16	22285225	2	Clamping brace	
17	984734	3	Flange screw	
18	22494914	1	Charge air pipe	
19	22285216	1	Bracket	Replaced by 22757119
	22757119	1	Bracket	
20	990813	2	Flange screw	
21	3594409	1	Bracket	
22	984753	3	Flange screw	
23	990942	2	Flange nut	
24	948556	2	Washer	
25	22430803	2	Spacer sleeve	
26	866857	2	Rubber bushing	
27	22488137	2	Attaching fitting	
28	866857	2	· Rubber bushing	
29	984752	2	Flange screw	
30	22162119	1	Bracket	
31	978435	1	Cable tie	
32	22037699	1	Hose	
33	949647	1	O-ring	
34	3593807	1	Stay	
35	22446058	1	Connecting pipe	
36	22471286	1	Bracket	
37	976944	3	Washer	
38	22150844	1	Connecting pipe	
39	21313833	1	Gasket	
40	984744	4	Flange screw	
41	984736	1	Flange screw	

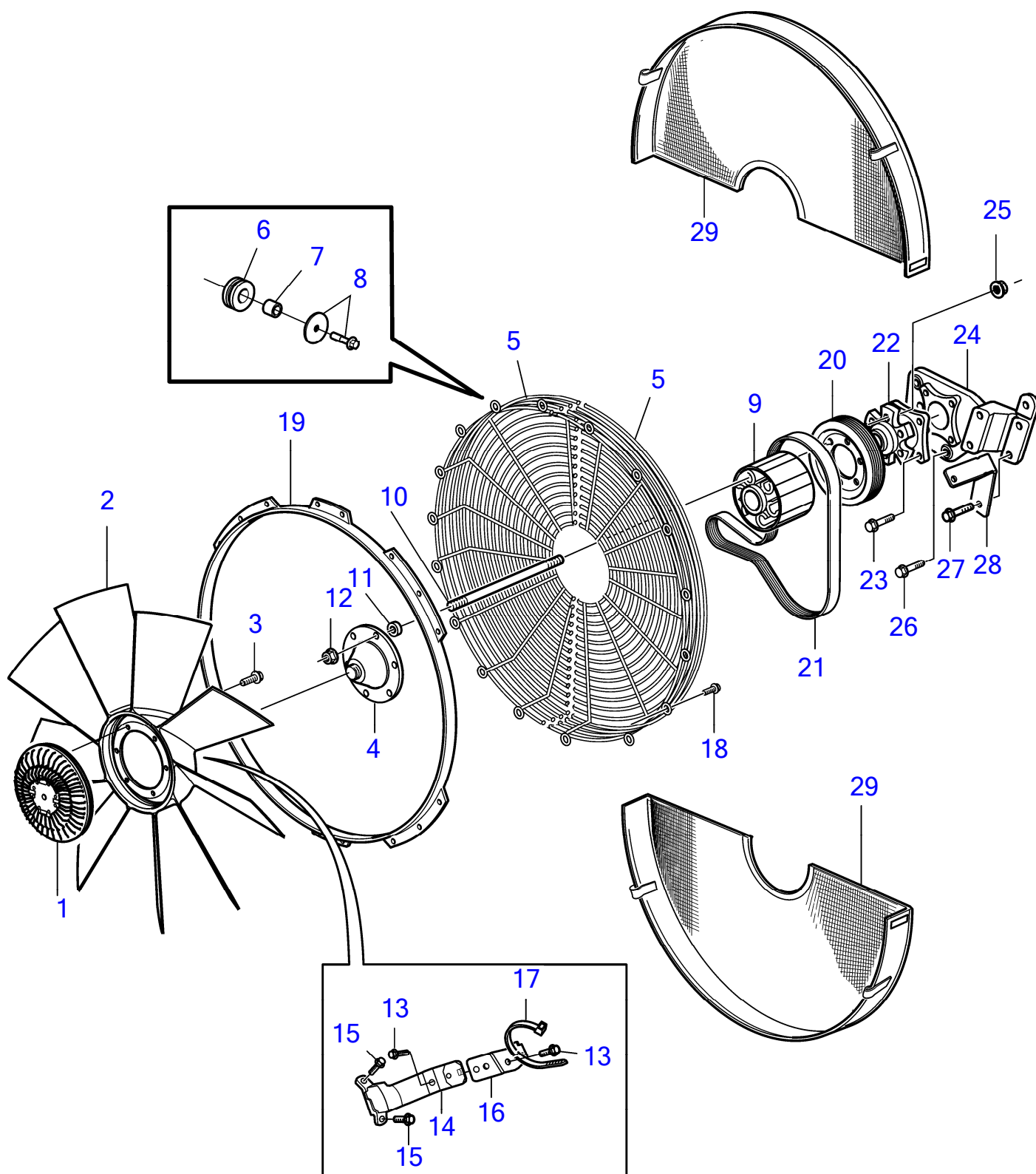


Ref	Part No.	Qty	Description	Notes
1		1	Radiator	
2	22140179	1	Hose	
3	994565	4	Hose clamp	
4	3033054	1	V-clamp	
5	994441	1	Flange screw	
6	990950	1	Flange lock nut	
7	22035260	1	Connecting pipe	
8	20435760	8	Hose clamp	
9	3838792	3	Charge air hose	
10	22285210	1	Bracket	Replaced by 23242492
	23242492	1	Bracket	
11	984733	9	Flange screw	
12	984734	1	Flange screw	
13	941976	1	Clamp	
14	22285230	2	Clamping brace	
15	22285225	2	Clamping brace	
16	984734	3	Flange screw	
17	22494914	1	Charge air pipe	
18	22285216	1	Bracket	Replaced by 22757119
	22757119	1	Bracket	
19	990813	2	Flange screw	
20	3594409	1	Bracket	
21	984753	3	Flange screw	
22	990942	2	Flange nut	
23	948556	2	Washer	
24	22430803	2	Spacer sleeve	
25	866857	2	Rubber bushing	
26	22488137	2	Attaching fitting	
27	866857	2	· Rubber bushing	
28	984752	2	Flange screw	
29	22162119	1	Bracket	
30	978435	1	Cable tie	
31	22037699	1	Hose	
32	949647	2	O-ring	
33	3593807	1	Stay	
34	22446058	1	Connecting pipe	
35	3829133	1	Charge air hose	
36	22471286	1	Bracket	
37	976944	3	Washer	
38	22150870	1	Charge air pipe	
39	984744	4	Flange screw	
40	3979639	1	Plane gasket	
41	984736	1	Flange screw	



29411

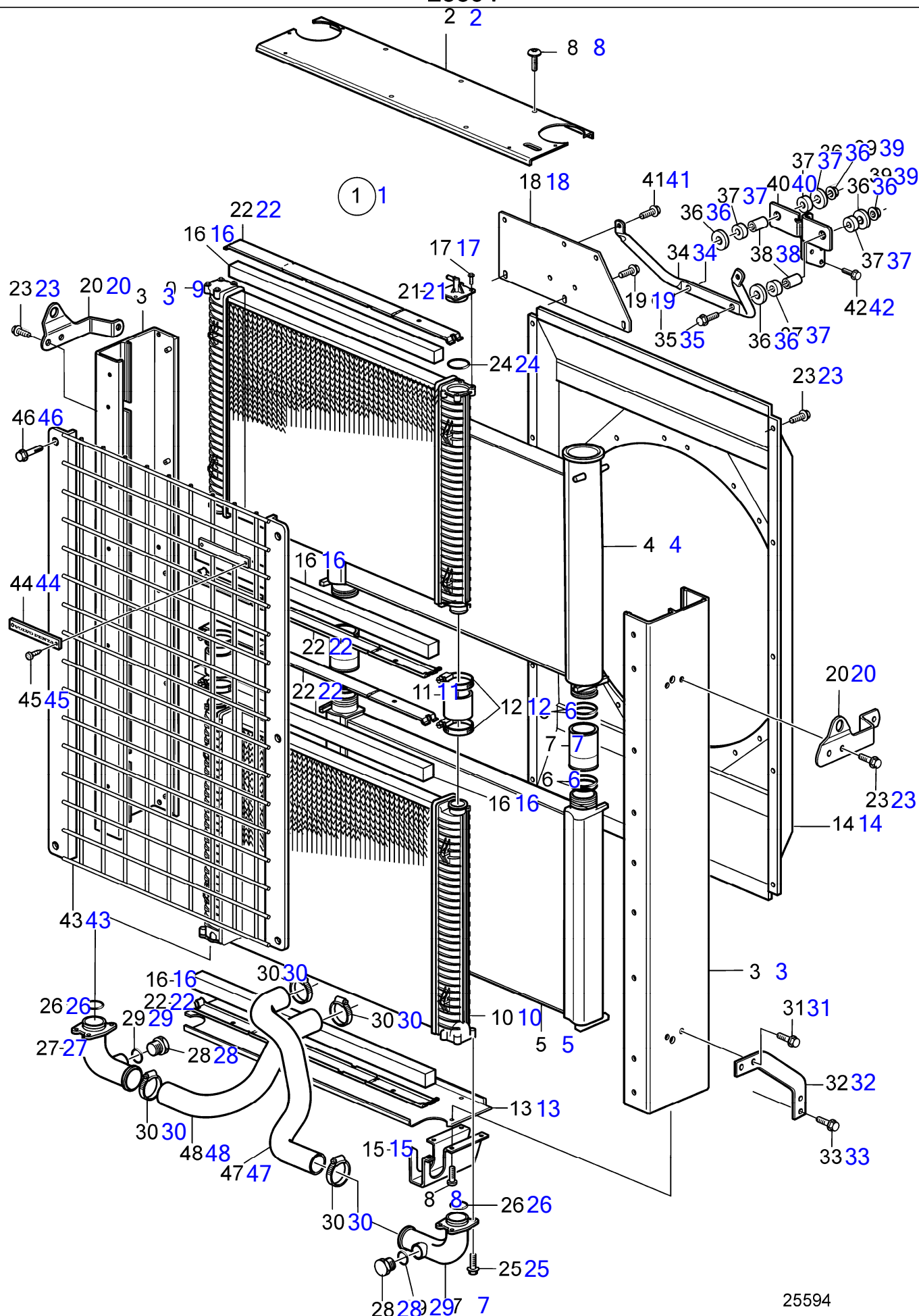
Ref	Part No.	Qty	Description	Notes
1	3827612	1	Fan ring	
2	3828964	1	Fan	Pushing fan
	3828963	1	Fan	Suction fan
3	21206539	2	Fan guard	SN-2016107282
			• Bulletin p-26-1-111	New Fan Guard
3	78467466	2	Fan guard	SN2016107283-
4	21860181	12	• Rubber damper	
5	845988	12	• Spacer sleeve	
6	22147274	12	• Flange screw	
7	3829537	1	Fan hub	
8	3829958	1	Pulley	Ratio 1:1,04
	3829957	1	Pulley	Ratio 1:0,97
	3828043	1	Pulley	Ratio 1:0,88
9	3838617	1	V-ribbed belt	For pulley 3829958
	3819398	1	V-ribbed belt	For remskiva 3829957
	70326597	1	V-ribbed belt	For pulley 3828043
10	21924453	1	Fan hub	
11	984754	4	Flange screw	
12	3830000	1	Bracket	
13	965221	5	Flange screw	
14	130204	6	Stud	
15	990941	6	Flange nut	
16	984734	12	Flange screw	For Fan Guard 21206539
17	23215272	2	Filter netting	



29487

Ref	Part No.	Qty	Description	Notes
1	21968941	1	Clutch	
2	3595217	1	Fan	Pushing fan
	21210284	1	Fan	Suction fan
3	21318856	6	Six point screw	
4	21305942	1	Adapter	
5	21206539	2	Fan guard	SN-2016108826
			• Bulletin p-26-1-111	New Fan Guard
5	78467466	2	Fan guard	SN2016108827-
6	21860181	12	• Rubber damper	
7	845988	12	• Spacer sleeve	
8	22147274	12	• Flange screw	
9	21349312	1	Fan hub	
10	130201	6	Stud	
11	842930	6	Spacer sleeve	
12	990941	6	Flange nut	
13	984733	3	Flange screw	
14	21315240	1	Sensor	
15		2	• Screw	
16	21303458	1	Bracket	
17	948211	2	Cable tie	
18	984734	12	Flange screw	For Fan Guard 21206539
19	3827612	1	Fan ring	SN-2016108826
	78467816	1	Fan ring	SN2016108827-
20	3829958	1	Pulley	Ratio 1:1,0
	3829957	1	Pulley	Ratio 1:0,97
	3828043	1	Pulley	Ratio 1:1,08
21	3838617	1	V-ribbed belt	For pulley 3829958
	3819398	1	V-ribbed belt	For remskiva 3829957
	70326597	1	V-ribbed belt	For pulley 3828043
22	21924453	1	Fan hub	
23	984754	4	Flange screw	
24	3830000	1	Bracket	
25	990941	6	Flange nut	
26	965221	5	Flange screw	
27	8192804	2	Flange screw	
28	21349297	1	Bracket	
29	23215272	2	Filter netting	

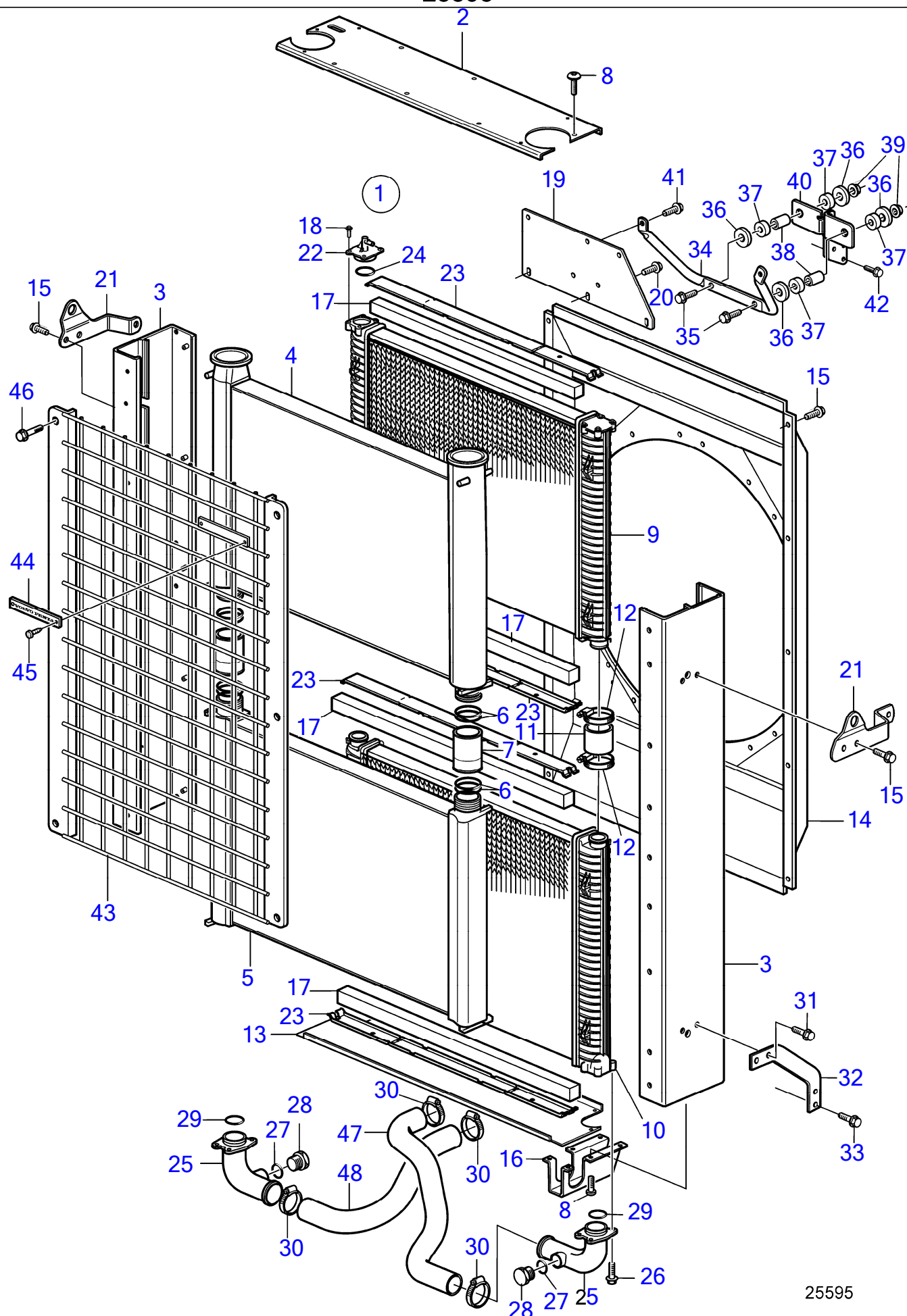
25594



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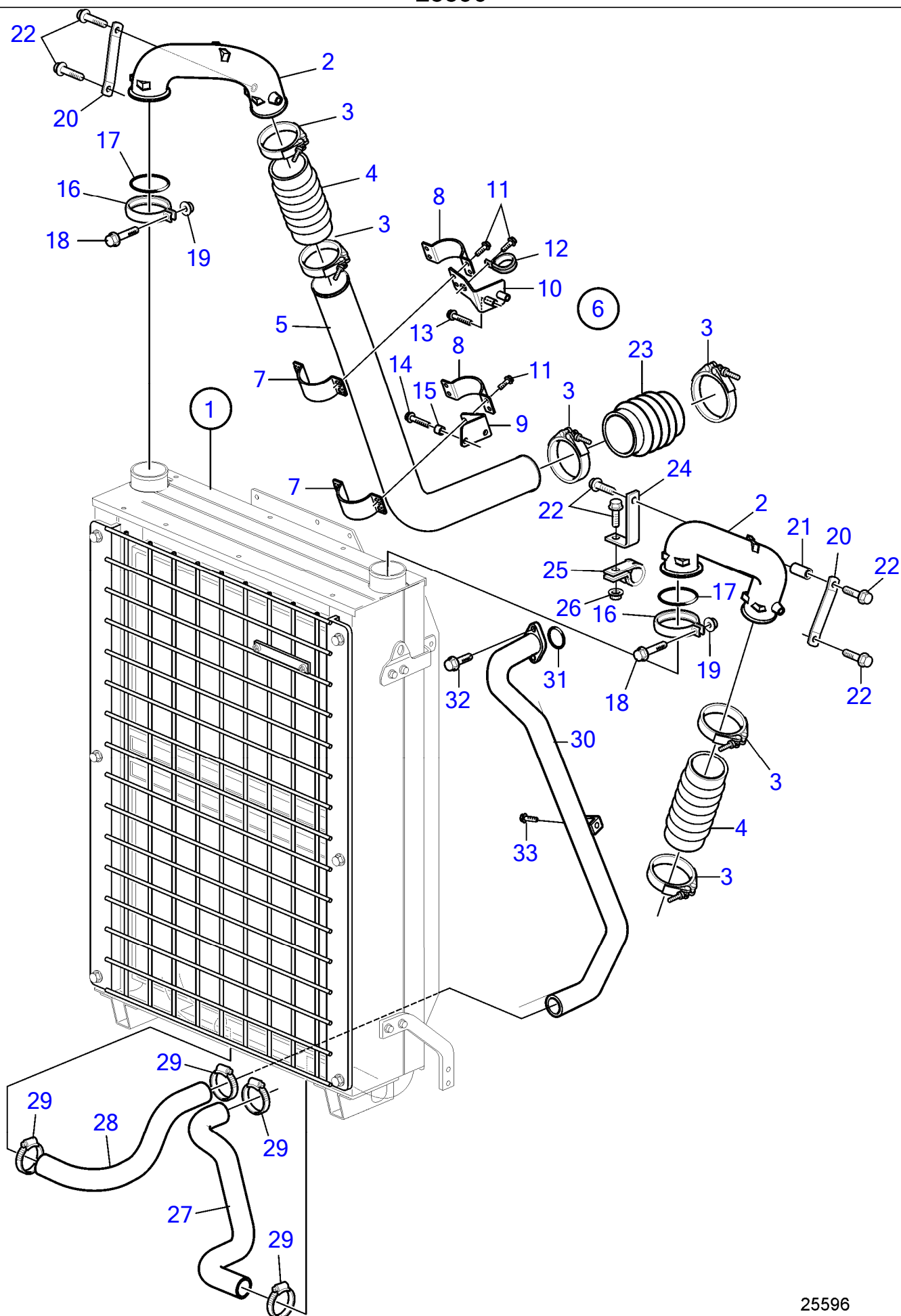
Ref	Part No.	Qty	Description	Notes
1	(3885433)	1	Cooling package	Obsolete part
2	21134770	1	• Frame profile	
3	21134766	2	• Frame profile	
4	3838129	1	• Charge air cooler	
5	3587692	1	• Charge air cooler	
6	3587694	8	• O-ring	
7	3587693	2	• Intermediate pipe	
8	3587729	22	• Screw	
9	21134096	1	• Radiator	
10	21133904	1	• Radiator	
11	21134129	2	• Hose	
12	943478	4	• Hose clamp	
13	21134775	1	• Frame profile	
14	3838131	1	• Fan shroud	
15	21134779	2	• Base	
16	3587741	4	• Sealing strip	
17		24	• Screw	
18	3587730	1	• Bracket	
19	984752	2	• Flange screw	
20	3830508	1	• Bracket	Right
	3830509	1	• Bracket	Left
21	21134814	1	• Cover	
22		4	• Plate	
23	984733	14	• Flange screw	
24	21138584	2	• O-ring	
25		8	• Screw	
26	21138584	2	• O-ring	
27	21134796	2	• Hose connection	
28	21147028	2	• Plug	
29	21147027	2	• O-ring	
30	994565	4	Hose clamp	
31	984735	4	Flange screw	
32	3808825	1	Bracket	Left
	3808827	1	Bracket	Right
33	984734	4	Flange screw	
34	3593807	1	Stay	
35	968302	2	Flange screw	
36	948556	4	Washer	
37	866857	4	Rubber bushing	
38	252202	2	Spacer sleeve	
39	966818	2	Flange nut	
40	3594409	1	Bracket	
41	946472	2	Flange screw	
42	984753	3	Flange screw	
43	3829123	1	Radiator protector	Replaced by 21154155
	21154155	1	Radiator protector	
44	846118	1	Emblem	
45	941651	2	Cross recessed sunk	
46	984733	6	Flange screw	
47	3886480	1	Radiator hose	
48	3886478	1	Radiator hose	

TAD1641VE, TAD1642VE, TAD1643VE, TAD1650VE, TAD1660VE, TAD1661VE,
TAD1662VE, TAD1640VE-B, TAD1641VE-B, TAD1642VE-B, TAD1660-62VE
25595

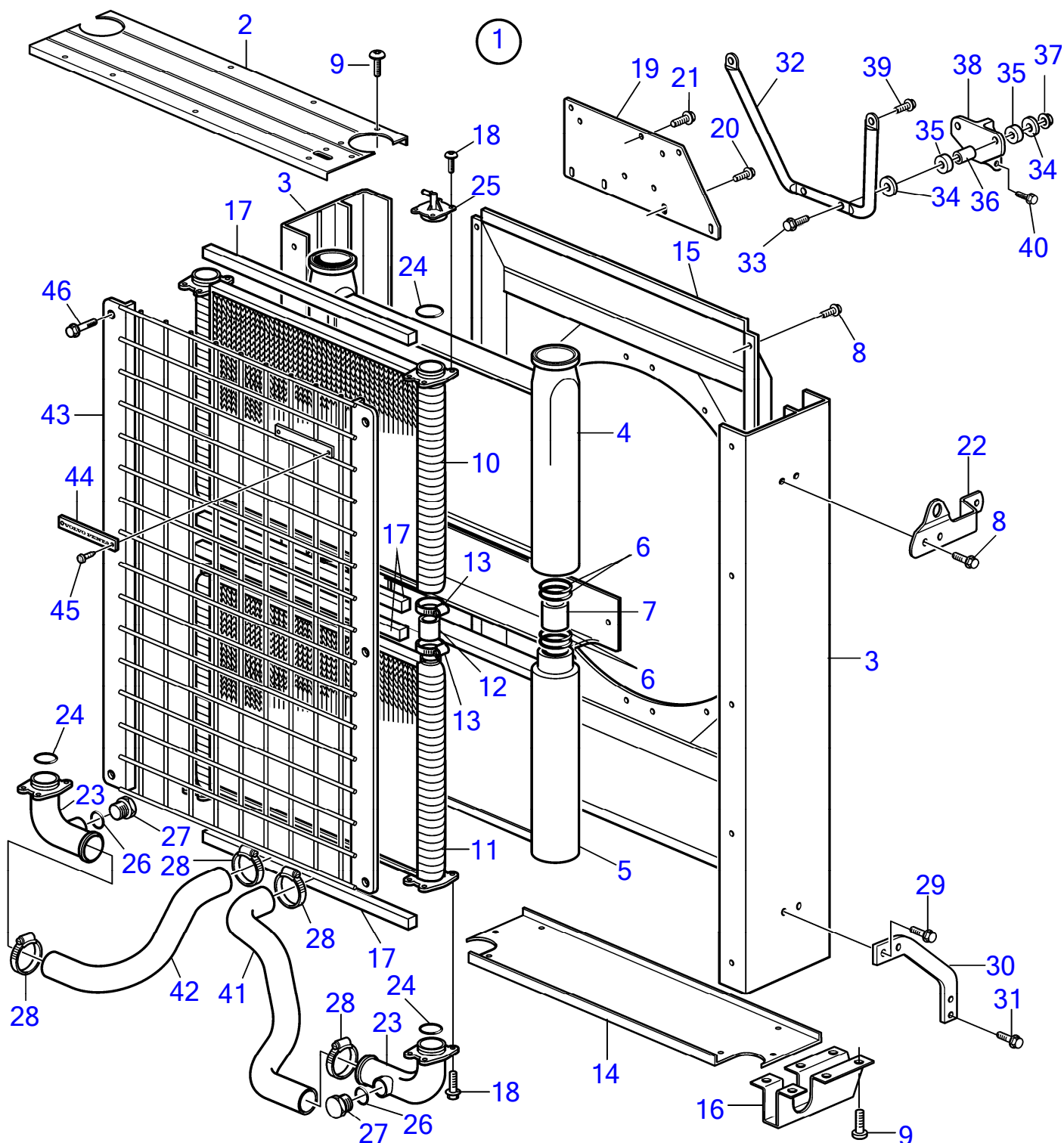


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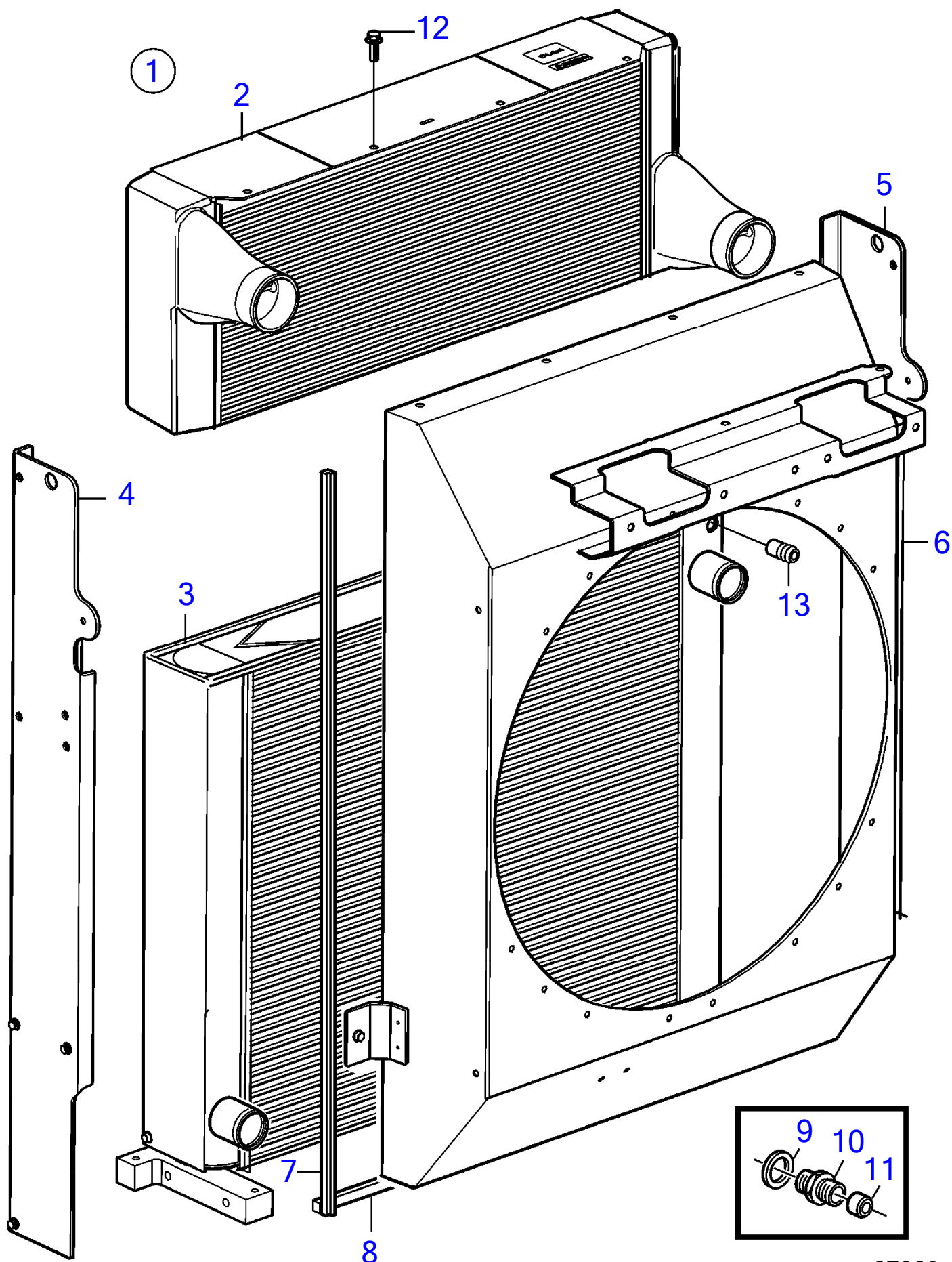
Ref	Part No.	Qty	Description	Notes
1	(3885433)	1	Cooling package	Obsolete part
2	21134770	1	• Frame profile	
3	21134766	2	• Frame profile	
4	3838129	1	• Charge air cooler	
5	3587692	1	• Charge air cooler	
6	3587694	8	• O-ring	
7	3587693	2	• Intermediate pipe	
8	3587729	22	• Screw	
9	21134096	1	• Radiator	
10	21133904	1	• Radiator	
11	21134129	2	• Hose	
12	943478	4	• Hose clamp	
13	21134775	1	• Frame profile	
14	3838131	1	• Fan shroud	
15	984733	14	• Flange screw	
16	21134779	2	• Base	
17	3587741	4	• Sealing strip	
18		8	• Screw	
19	3587730	1	• Bracket	
20	984752	2	• Flange screw	
21	3830508	1	• Bracket	Right
	3830509	1	• Bracket	Left
22	21134814	1	• Cover	
23		4	• Plate	
24	21138584	2	• O-ring	
25	21134796	2	• Hose connection	
26		8	• Screw	
27	21147027	2	• O-ring	
28	21147028	2	• Plug	
29	21138584	2	• O-ring	
30	994565	4	Hose clamp	
31	984735	4	Flange screw	
32	3808825	1	Bracket	Left
	3808827	1	Bracket	Right
33	984734	4	Flange screw	
34	3593807	1	Stay	
35	968302	2	Flange screw	
36	948556	4	Washer	
37	866857	4	Rubber bushing	
38	252202	2	Spacer sleeve	
39	966818	2	Flange nut	
40	3594409	1	Bracket	
41	946472	2	Flange screw	
42	984753	3	Flange screw	
43	3829123	1	Radiator protector	Replaced by 21154155
	21154155	1	Radiator protector	Replaced by 21154155
44	846118	1	Emblem	
45	941651	2	Cross recessed sunk	
46	984733	6	Flange screw	
47	3886480	1	Radiator hose	
48	3886478	1	Radiator hose	



Ref	Part No.	Qty	Description	Notes
1			Radiator	
2	3829137	2	Connecting pipe	
3	20435760	6	Hose clamp	(1660909)
4	3829133	2	Charge air hose	
5	3838798	1	Charge air pipe	
6	3887193	1	Kit	
7	3843092	2	• Bracket	
8	3843090	2	• Bracket	
9	3843123	1	• Bracket	
10	3843126	1	• Bracket	
11	984734	8	• Flange screw	
12	941976	1	Clamp	
13	973924	2	Flange screw	
14	965226	2	Flange screw	
15	1678297	2	Spacer sleeve	
16	3033054	2	V-clamp	
17	949647	2	O-ring	
18	973924	2	Flange screw	
19	990950	2	Flange lock nut	
20	3838913	2	Bracket	
21	847150	1	Spacer sleeve	
22	984734	6	Flange screw	
23	3838792	1	Charge air hose	
24	965558	1	Bracket	
25	942810	1	Clamp	
26	990940	1	Flange nut	
27	3886480	1	Radiator hose	Right
28	3886478	1	Radiator hose	Left
29	994565	4	Hose clamp	
30	21158652	1	Coolant pipe	
31	975675	1	O-ring	
32	984735	2	Flange screw	
33	984815	1	Flange screw	



Ref	Part No.	Qty	Description	Notes
1	(3885433)	1	Cooling package	Obsolete part
2	21134770	1	• Frame profile	
3	21134766	2	• Frame profile	
4	3838129	1	• Charge air cooler	
5	3587692	1	• Charge air cooler	
6	3587694	8	• O-ring	
7	3587693	2	• Intermediate pipe	
8	984733	22	• Flange screw	
9	3587729	18	• Screw	
10	21134096	1	• Radiator	
11	21133904	1	• Radiator	
12	21134129	2	• Hose	
13	943478	4	• Hose clamp	
14	21134775	1	• Frame profile	
15	3838131	1	• Fan shroud	
16	21134779	2	• Base	
17	3587741	4	• Sealing strip	
18	3587729	24	• Screw	
19	3587730	1	• Bracket	
20	984752	2	• Flange screw	
21	984734	3	• Flange screw	
22	3830508	1	• Bracket	Right
	3830509	1	• Bracket	Left
23	21134796	2	• Hose connection	
24	21138584	4	• O-ring	
25	21134814	1	• Cover	
26	21147027	2	• O-ring	
27	21147028	2	• Plug	
28	943480	4	Hose clamp	
29	984735	4	Flange screw	
30	3808825	1	Bracket	Left
	3808827	1	Bracket	Right
31	984734	4	Flange screw	
32	3593807	1	Stay	
33	968302	2	Flange screw	
34	948556	4	Washer	
35	866857	4	Rubber bushing	
36	252202	2	Spacer sleeve	
37	966818	2	Flange nut	
38	3594409	1	Bracket	
39	946472	2	Flange screw	
40	984753	3	Flange screw	
41	3886480	1	Radiator hose	
42	3886478	1	Radiator hose	
43	3829123	1	Radiator protector	Replaced by 21154155
	21154155	1	Radiator protector	
44	846118	1	Emblem	
45	941651	2	Cross recessed sunk	
46	984733	6	Flange screw	

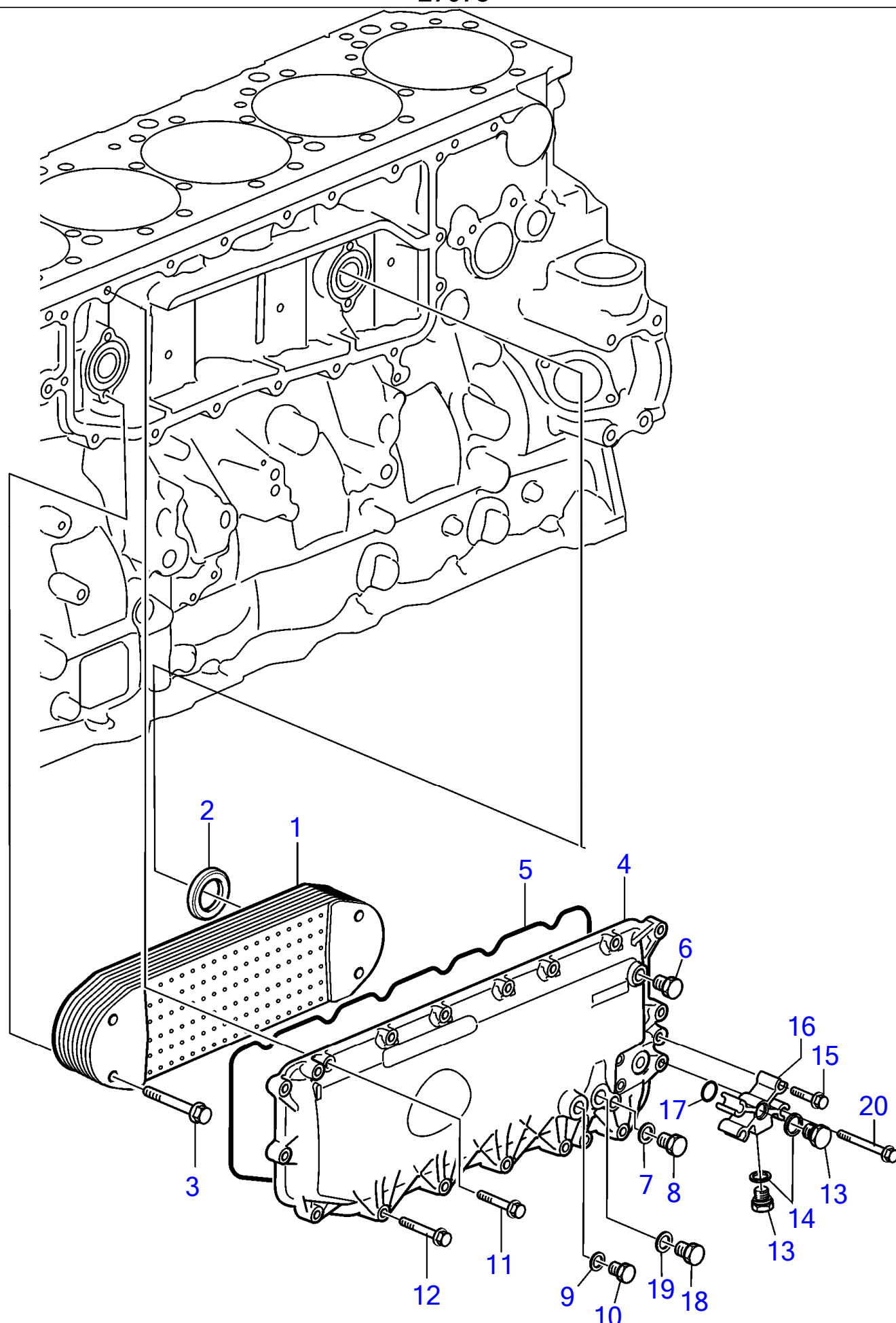


27003

26 Radiator and Charge Air Cooler, HD

TAD1641VE, TAD1642VE, TAD1643VE, TAD1650VE, TAD1660VE, TAD1661VE, TAD1662VE,
TAD1640VE-B, TAD1641VE-B, TAD1642VE-B

Ref	Part No.	Qty	Description	Notes
1		1	Cooling package	
		1	Cooling package	SN20161107440-
2	22257084	1	Charge air cooler	
3	22257085	1	Radiator	
4	22257083	1	Frame	
5	22257086	1	Frame	
6	22257075	1	Fan shroud	SN-20161107439
	23122124	1	Fan shroud	SN20161107440-
7	22257079	2	Seal	
8	22257082	1	Seal	
9	948885	1	Gasket	
10	1676622	1	Nipple	
11	476279	1	Protecting cap	
12	984733	6	Flange screw	
13	(947043)	1	Hose nipple	Obsolete part



26 Oil Cooler, Engine

TAD1641VE, TAD1642VE, TAD1643VE, TAD1650VE, TAD1640VE-B, TAD1641VE-B, TAD1642VE-B

Ref	Part No.	Qty	Description	Notes
1	20700516	1	Oil cooler	
2	20551483	2	Sealing ring	
3	982160	4	Flange screw	
4	20581617	1	Cover	SN-2016010024
	20746923	1	Cap	SN2016010025-2016022855, Replaced by 21122228
	21122228	1	Cover	SN2016022856-2016024645, Replaced by 21100906
	21100906	1	Cover	SN2016024646-2016047780, Relaced by 21426900 and gasket 21302234
	21426900	1	Cover	SN2016047781-
5	21302234	1	Gasket	SN2016047781-
	21039517	1	Seal	SN-2016024645, Replaced by 21193230
	20746919	1	Seal	SN-2016024645, Replaced by 21193230
	21193230	1	Sealing kit	SN2016024646-2016047780, Replaced by gasket 21302234 and cover 21426900
	21302234	1	Gasket	SN2016047781-
6	968062	1	Plug	
7	984795	1	O-ring	
8	960629	1	Plug	
9	11998	1	Gasket	
10	960632	1	Plug	
11	984738	11	Flange screw	
12	984739	5	Flange screw	
13	982293	2	Plug	
14	21024032	2	Sealing ring	
15	984739	3	Flange screw	
16	3888580	1	Spacer	
17	469846	1	Sealing ring	
18	960631	1	Plug	
19	11996	1	Gasket	
20	984741	1	Flange screw	

28728



Ref	Part No.	Qty	Description	Notes
1	22075187	1	Radiator	SN-2016107666
	23019542	1	Radiator	SN2016107734-
2	961672	4	Hose clamp	
3	22075129	2	Hose	
4	22075185	1	Radiator	SN-2016107666
	23019545	1	Radiator	SN2016107734-
5	22075087	1	Charge air cooler	SN-2016107666
	23014436	1	Charge air cooler	SN2016107734-
6	22075126	1	Frame	
7	22075131	2	Bracket	
8	984752	8	Flange screw	
9	22155655	2	Plate	
10	984724	8	Flange screw	
11	3808827	1	Bracket	
12	3808825	1	Bracket	
13	984734	4	Flange screw	
14	22075089	2	Bracket	
15	984733	56	Flange screw	
16	22075088	2	Bracket	
17	22272317	1	Bracket	
18	22075124	1	Frame	
19	22075194	1	Frame	
20	22075123	1	Frame	
21	22075190	2	Bracket	
22	22075119	1	Seal	
23	996061	4	Flange screw	
24	22347421	1	Plate	
25	22347412	1	Sealing ring	
26	22347426	1	O-ring	
27	22347425	1	Plug	
28	22347466	1	Cover	
29	22347468	1	Fan ring	
30	22343834	2	Seal	
31	22397409	4	Hex. socket sunk scr	
32	22837691	2	Seal	

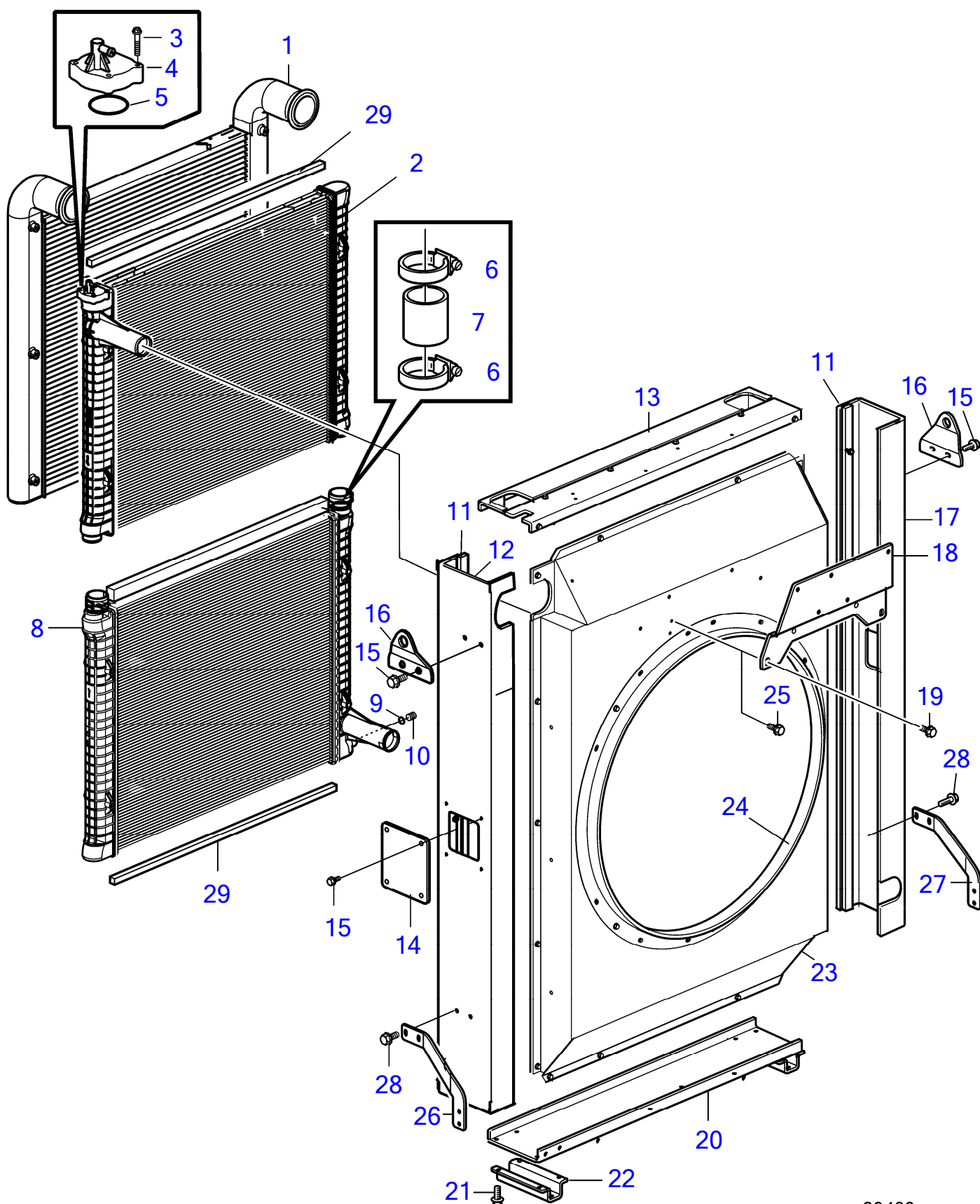
28731



26 Radiator and Charge Air Cooler, Pushing, SN2016084274-

TAD1641VE, TAD1642VE, TAD1643VE, TAD1650VE, TAD1640VE-B, TAD1641VE-B, TAD1642VE-B

Ref	Part No.	Qty	Description	Notes
1	22075187	1	Radiator	SN-2016107666
	23019542	1	Radiator	SN2016107734-
2	961672	4	Hose clamp	
3	22075129	2	Hose	
4	22075185	1	Radiator	SN-2016107666
	23019545	1	Radiator	SN2016107734-
5	22484849	1	Charge air cooler	SN-2016107666
	23014436	1	Charge air cooler	SN2016107734-
6	22075126	1	Frame	
7	22075131	2	Bracket	
8	984752	8	Flange screw	
9	22155655	2	Plate	
10	984724	8	Flange screw	
11	3808827	1	Bracket	
12	3808825	1	Bracket	
13	984734	4	Flange screw	
14	984733	50	Flange screw	
15	22272317	1	Bracket	
16	22075124	1	Frame	
17	22075194	1	Frame	
18	22075123	1	Frame	
19	22075190	2	Bracket	
20	22075119	1	Seal	
21	996061	4	Flange screw	
22	22347421	1	Plate	
23	22347412	1	Sealing ring	
24	22347426	1	O-ring	
25	22347425	1	Plug	
26	22465255	1	Cover	
27	22343834	2	Seal	
28	22397409	4	Hex. socket sunk scr	
29	22837691	2	Seal	



29483

26 Radiator and Charge Air Cooler, Suction, SN2016079648-

TAD1641VE, TAD1642VE, TAD1643VE, TAD1660VE, TAD1661VE, TAD1662VE, TAD1640VE-B,
TAD1641VE-B, TAD1642VE-B

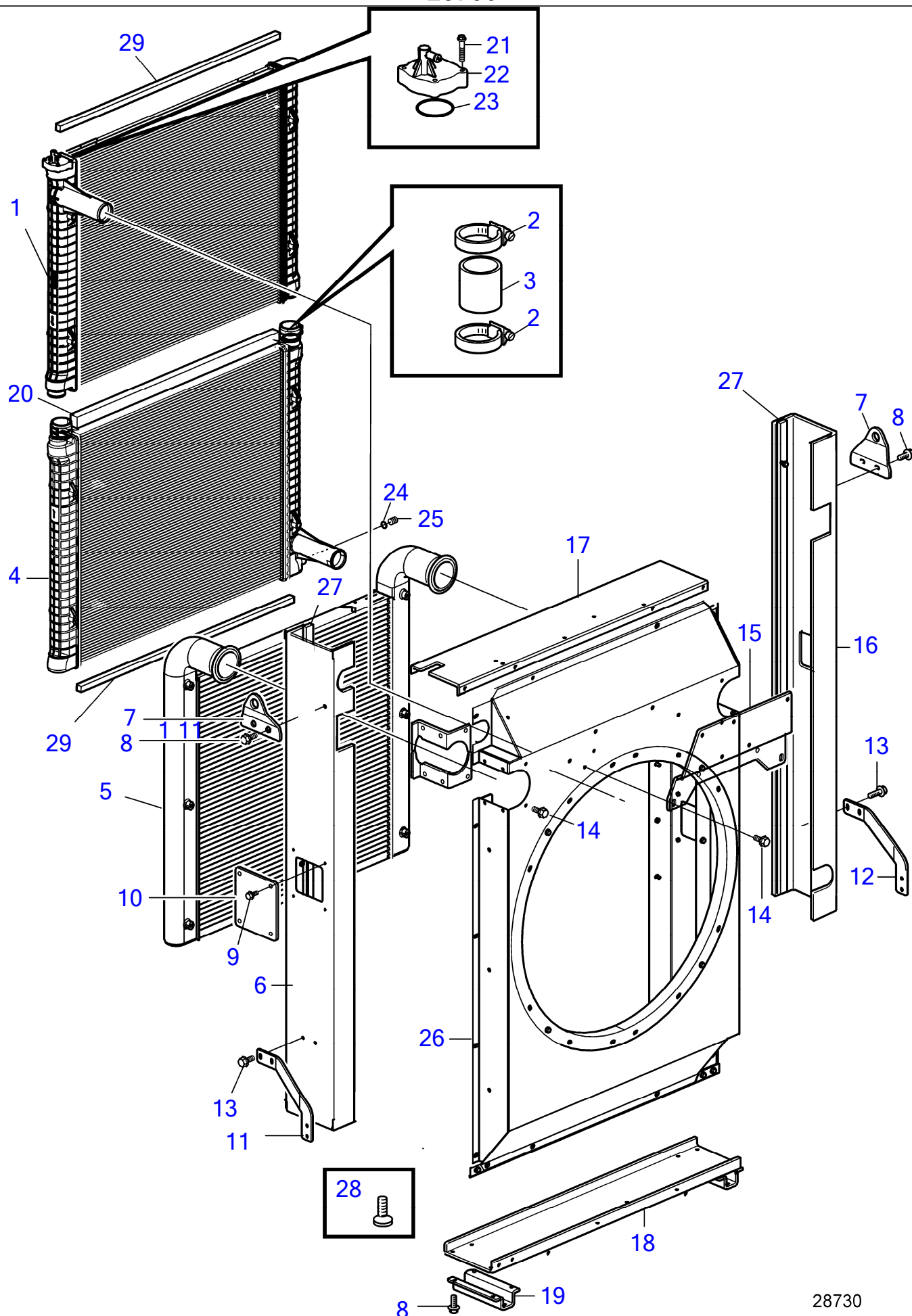
Ref	Part No.	Qty	Description	Notes
1	22174556	1	Charge air cooler	SN-2016108826
	23136793	1	Charge air cooler	SN2016108827-
2	22174564	1	Radiator	
3	996061	4	Flange screw	
4	22347421	1	Plate	
5	22347412	1	Sealing ring	
6	961672	4	Hose clamp	
7	22075129	2	Hose	
8	22174567	1	Radiator	
9	22347426	1	O-ring	
10	22347425	1	Plug	
11	22343834	2	Seal	
12	22174500	1	Frame	
13	22174549	1	Frame	
14	22155655	2	Plate	
15	984724	8	Flange screw	
16	22075131	2	Bracket	
17	22174498	1	Frame	
18	22272317	1	Bracket	
19	984733	48	Flange screw	
20	22075123	1	Frame	
21	984752	15	Flange screw	
22	22075190	2	Bracket	
23	22347467	1	Cover	SN-2016108826
	23176225	1	Cover	SN2016108827- Only together with Fan Guard 7846746SN2016108827- Only together with
24	22347468	1	Fan ring	SN-2016108826
	78467816	1	Fan ring	SN2016108827- Only together with Fan Guard 78467466
25	984733	10	Flange screw	SN2016108827-
26	3808827	1	Bracket	
27	3808825	1	Bracket	
28	984734	8	Flange screw	
29	22837691	2	Seal	

28730



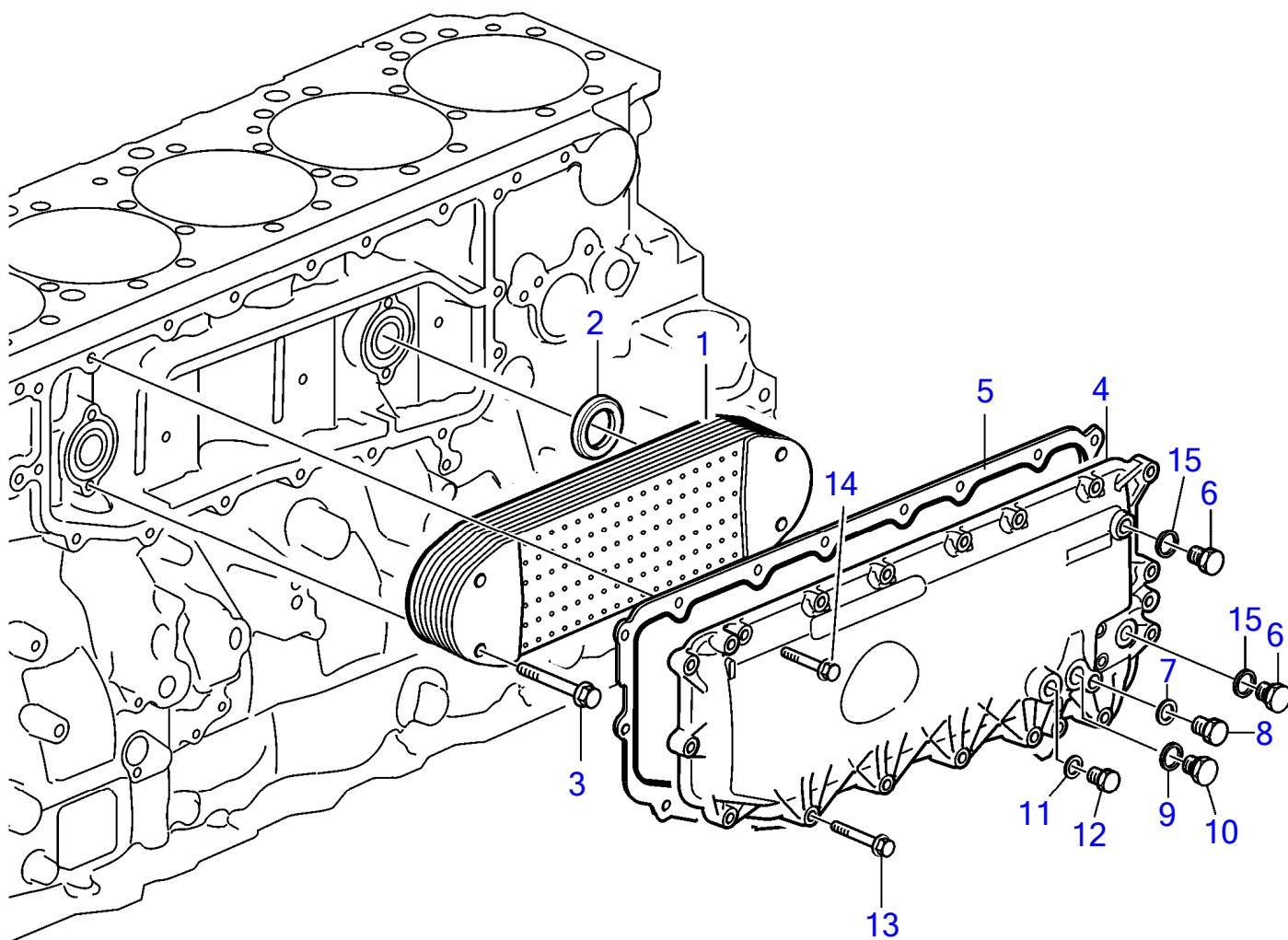
Ref	Part No.	Qty	Description	Notes
1	22075187	1	Radiator	SN-2016107666
	23019542	1	Radiator	SN2016107734-
2	961672	4	Hose clamp	
3	22075129	2	Hose	
4	22075185	1	Radiator	SN-2016107666
	23019545	1	Radiator	SN2016107734-
5	22484849	1	Charge air cooler	SN-2016107666
	23014436	1	Charge air cooler	SN2016107734-
6	22075126	1	Frame	
7	22075131	2	Bracket	
8	984752	8	Flange screw	
9	22155655	2	Plate	
10	984724	8	Flange screw	
11	3808827	1	Bracket	
12	3808825	1	Bracket	
13	984734	4	Flange screw	
14	984733	50	Flange screw	
15	22272317	1	Bracket	
16	22075124	1	Frame	
17	22075194	1	Frame	
18	22075123	1	Frame	
19	22075190	2	Bracket	
20	22075119	1	Seal	
21	996061	4	Flange screw	
22	22347421	1	Plate	
23	22347412	1	Sealing ring	
24	22347426	1	O-ring	
25	22347425	1	Plug	
26	22465255	1	Cover	
27	22343834	2	Seal	
28	22397409	4	Hex. socket sunk scr	
29	22837691	2	Seal	

TAD1641VE, TAD1642VE, TAD1643VE, TAD1650VE, TAD1660VE, TAD1661VE,
TAD1662VE, TAD1640VE-B, TAD1641VE-B, TAD1642VE-B, TAD1660-62VE
28730



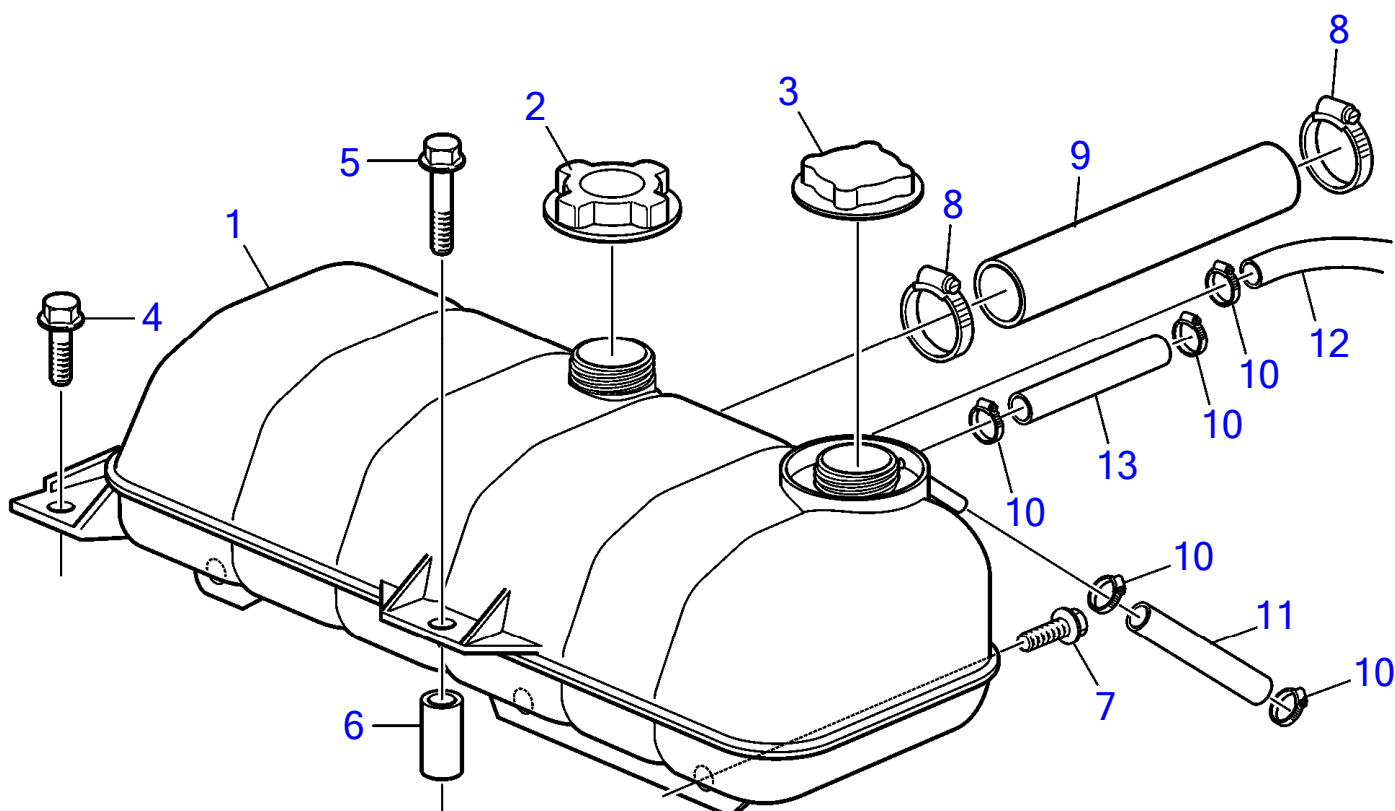
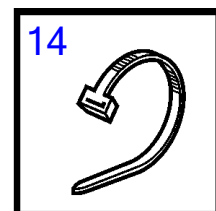
28730

Ref	Part No.	Qty	Description	Notes
1	22075187	1	Radiator	SN-2016107666
	23019542	1	Radiator	SN2016107734-
2	961672	4	Hose clamp	
3	22075129	2	Hose	
4	22075185	1	Radiator	SN-2016107666
	23019545	1	Radiator	SN2016107734-
5	22484849	1	Charge air cooler	SN-2016107666
	23014436	1	Charge air cooler	SN2016107734-
6	22075126	1	Frame	
7	22075131	2	Bracket	
8	984752	8	Flange screw	
9	22155655	2	Plate	
10	984724	8	Flange screw	
11	3808827	1	Bracket	
12	3808825	1	Bracket	
13	984734	4	Flange screw	
14	984733	50	Flange screw	
15	22272317	1	Bracket	
16	22075124	1	Frame	
17	22075194	1	Frame	
18	22075123	1	Frame	
19	22075190	2	Bracket	
20	22075119	1	Seal	
21	996061	4	Flange screw	
22	22347421	1	Plate	
23	22347412	1	Sealing ring	
24	22347426	1	O-ring	
25	22347425	1	Plug	
26	22465255	1	Cover	
27	22343834	2	Seal	
28	22397409	4	Hex. socket sunk scr	
29	22837691	2	Seal	



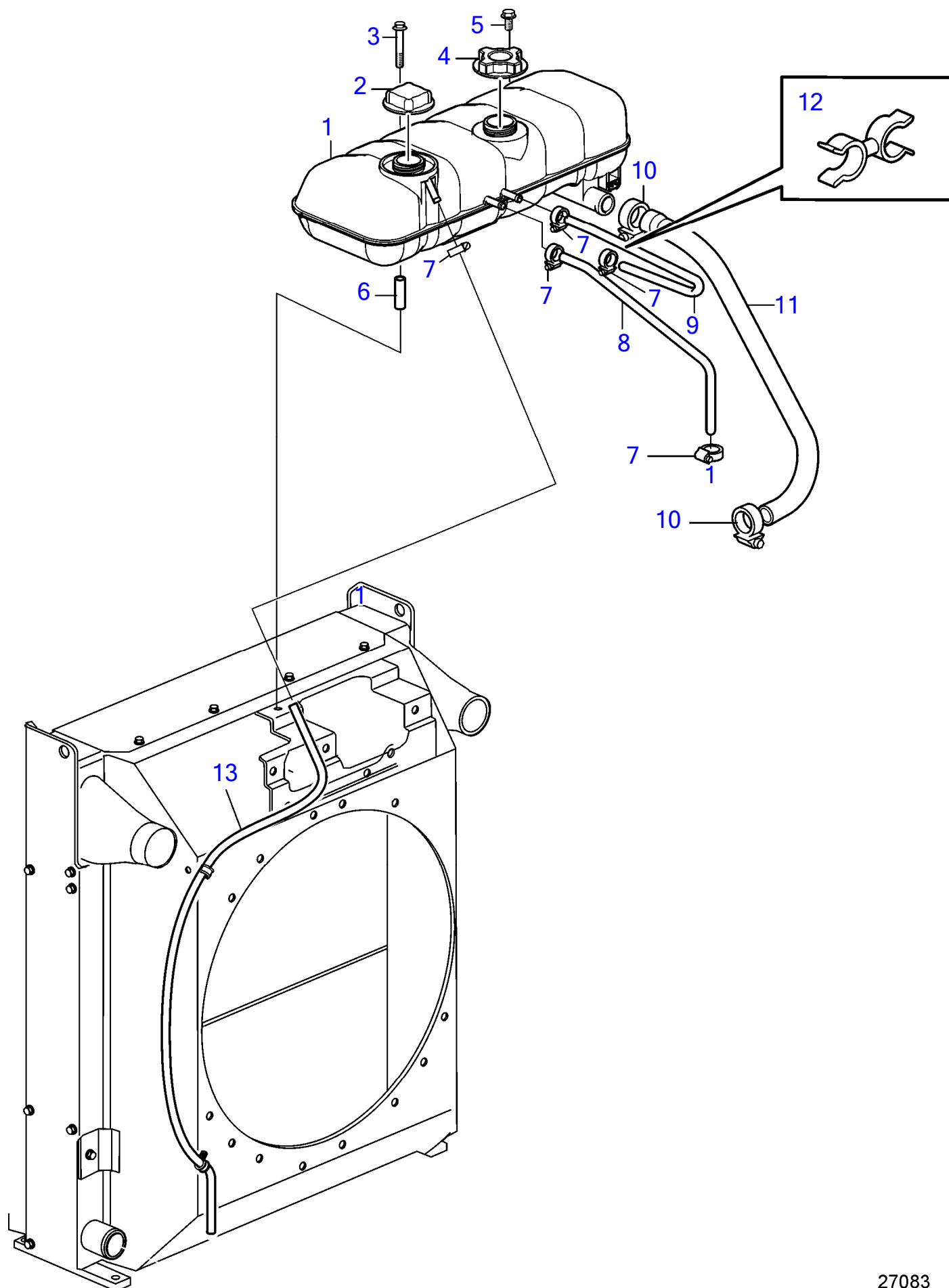
28001

Ref	Part No.	Qty	Description	Notes
1	20700516	1	Oil cooler	
2	20551483	2	Sealing ring	
3	991606	4	Flange screw	
4	20581617	1	Cover	SN-2016010024
	20746923	1	Cap	SN2016010025-2016022855, Replaced by 21122228
	21122228	1	Cover	SN2016022856-2016024645, Replaced by 21100906
	21100906	1	Cover	SN2016024646-2016047780, Relaced by 21426900 and gasket 21302234
	21426900	1	Cover	SN2016047781-
5	21302234	1	Gasket	SN2016047781-
	21039517	1	Seal	SN-2016024645, Replaced by 21193230
	20746919	1	Seal	SN-2016024645, Replaced by 21193230
	21193230	1	Sealing kit	SN2016024646-2016047780, Replaced by gasket 21302234 and cover 21426900
	21302234	1	Gasket	SN2016047781-
6	960630	1	Plug	
7	984795	1	O-ring	
8	960629	1	Plug	
9	11996	1	Gasket	
10	960631	1	Plug	
11	11998	1	Gasket	
12	960632	1	Plug	
13	973924	5	Flange screw	
14	984738	12	Flange screw	
15	969011	2	Gasket	



20905

Ref	Part No.	Qty	Description	Notes
1	1674916	1	Expansion tank	
2	1674922	1	Filler cap	
3	1674083	1	Pressure cap	
4	984733	1	Flange screw	
5	994386	1	Flange screw	
6	847239	1	Spacer sleeve	
7	984734	3	Flange screw	
8	994561	2	Hose clamp	
9	21619272	1	Hose	L=1050mm
10	994556	5	Hose clamp	
11	943367	X	Rubber hose	Drain, expansion tank., L=1930mm
12	943367	X	Rubber hose	Mounted in cylinder head. for air ventilation to the expansion tank., L=850mm
13	943367	X	Rubber hose	For engines with thrust type fan., Air vent hose, radiator., L=950mm
	943367	X	Rubber hose	For suction type of fan., Air vent hose, radiator., L=1430mm
14	948211	X	Cable tie	

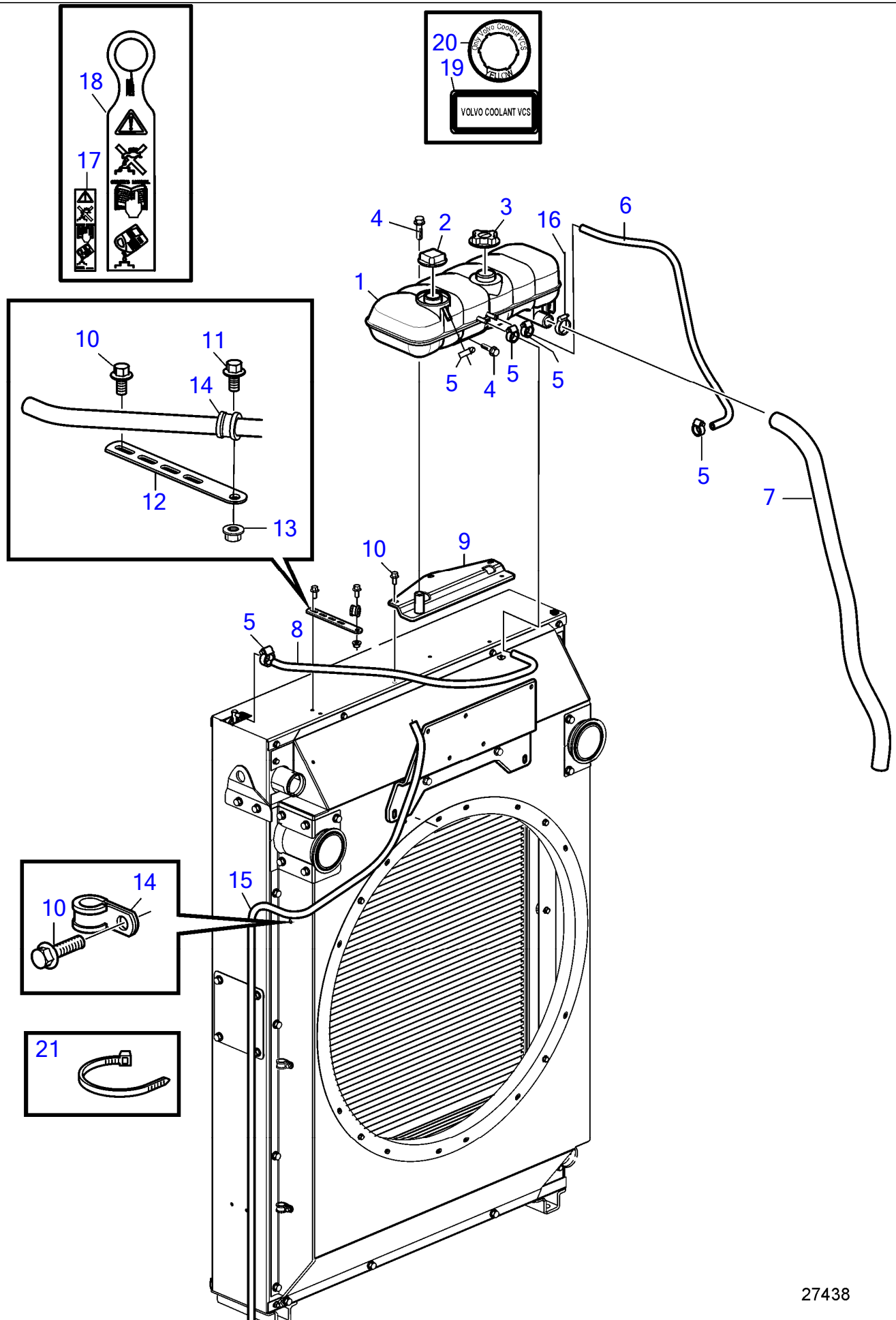


26 Expansion Tank with Connection Components HDTAD1641VE, TAD1642VE, TAD1643VE, TAD1650VE, TAD1660VE, TAD1661VE, TAD1662VE,
TAD1640VE-B, TAD1641VE-B

Ref	Part No.	Qty	Description	Notes
1	1674916	1	Expansion tank	
2	1674083	1	Pressure cap	
3	968163	1	Flange screw	
4	1674922	1	Filler cap	
5	984751	1	Flange screw	
6	820916	1	Spacer sleeve	
7	994556	5	Hose clamp	
8	943367	1	Rubber hose	L=850mm
9	943367	1	Rubber hose	L=1200mm
10	994561	2	Hose clamp	
11	21888855	1	Pipe	
12	9205207	1	Retainer	
13	943367	1	Rubber hose	L=1700mm

**TAD1641VE, TAD1642VE, TAD1643VE, TAD1650VE, TAD1660VE, TAD1661VE,
TAD1662VE, TAD1640VE-B, TAD1641VE-B, TAD1642VE-B, TAD1660-62VE**

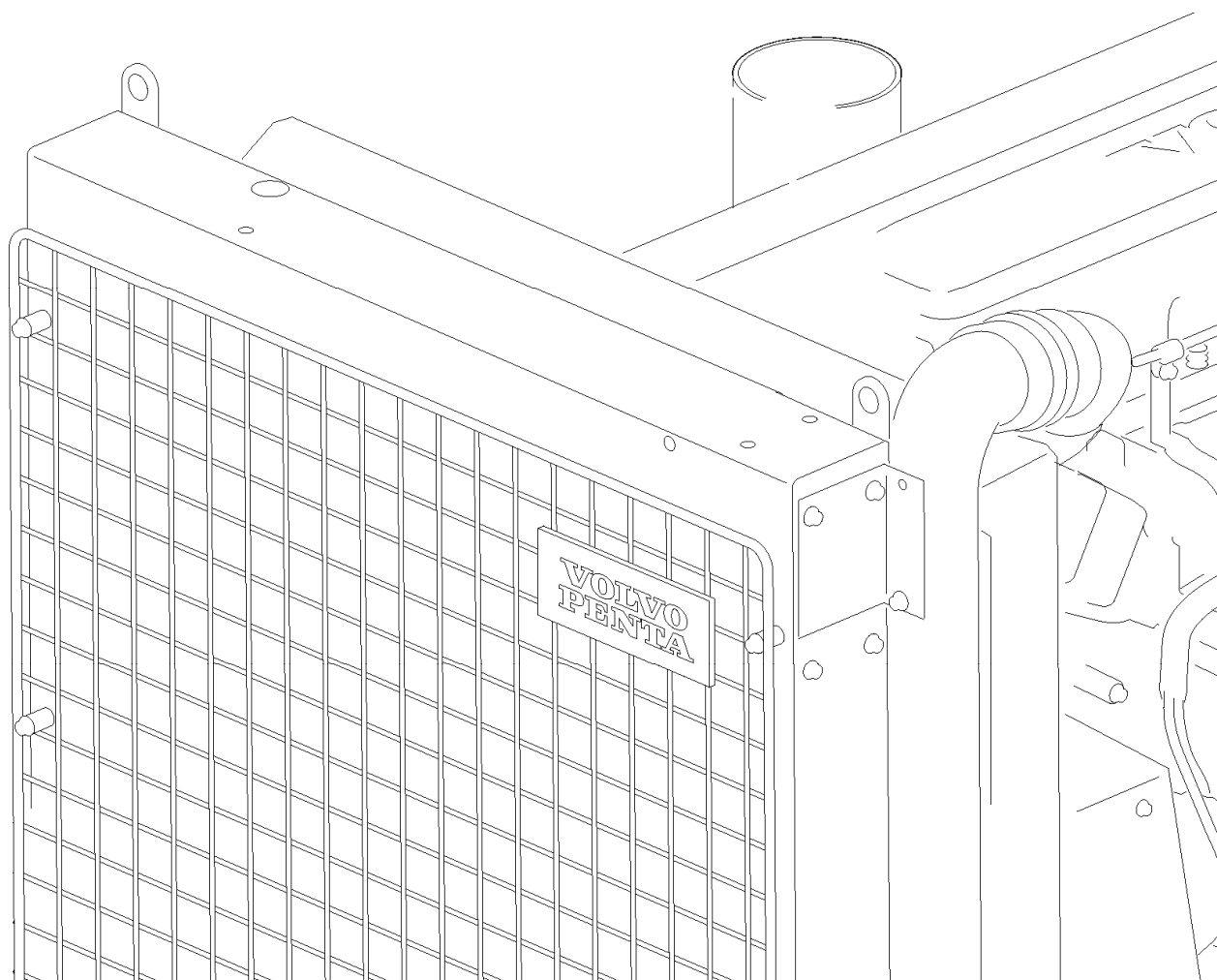
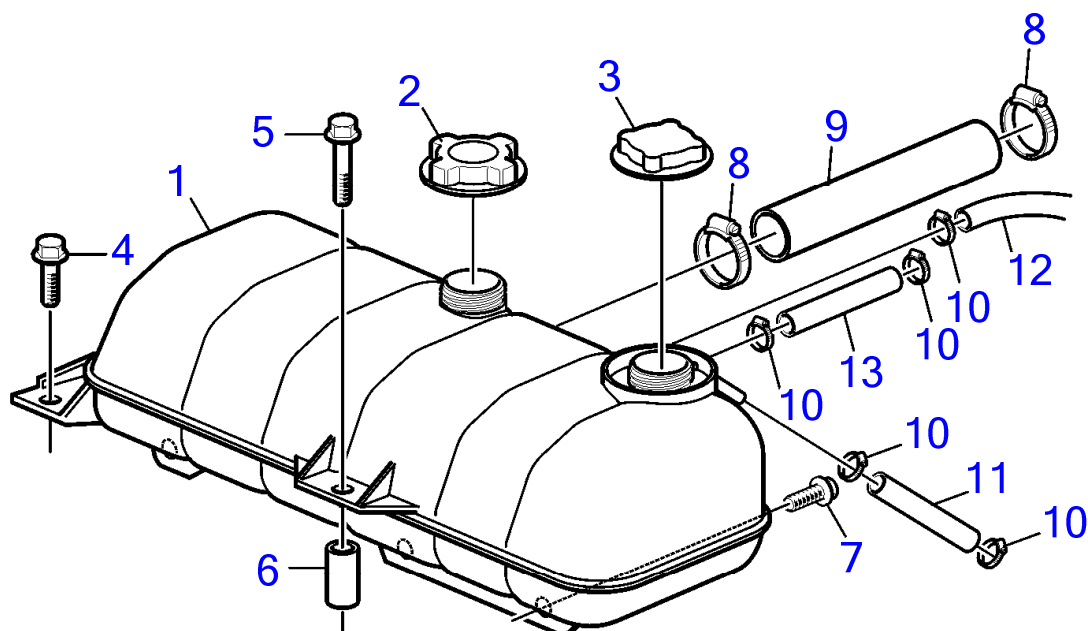
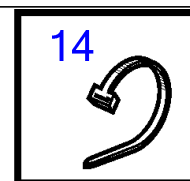
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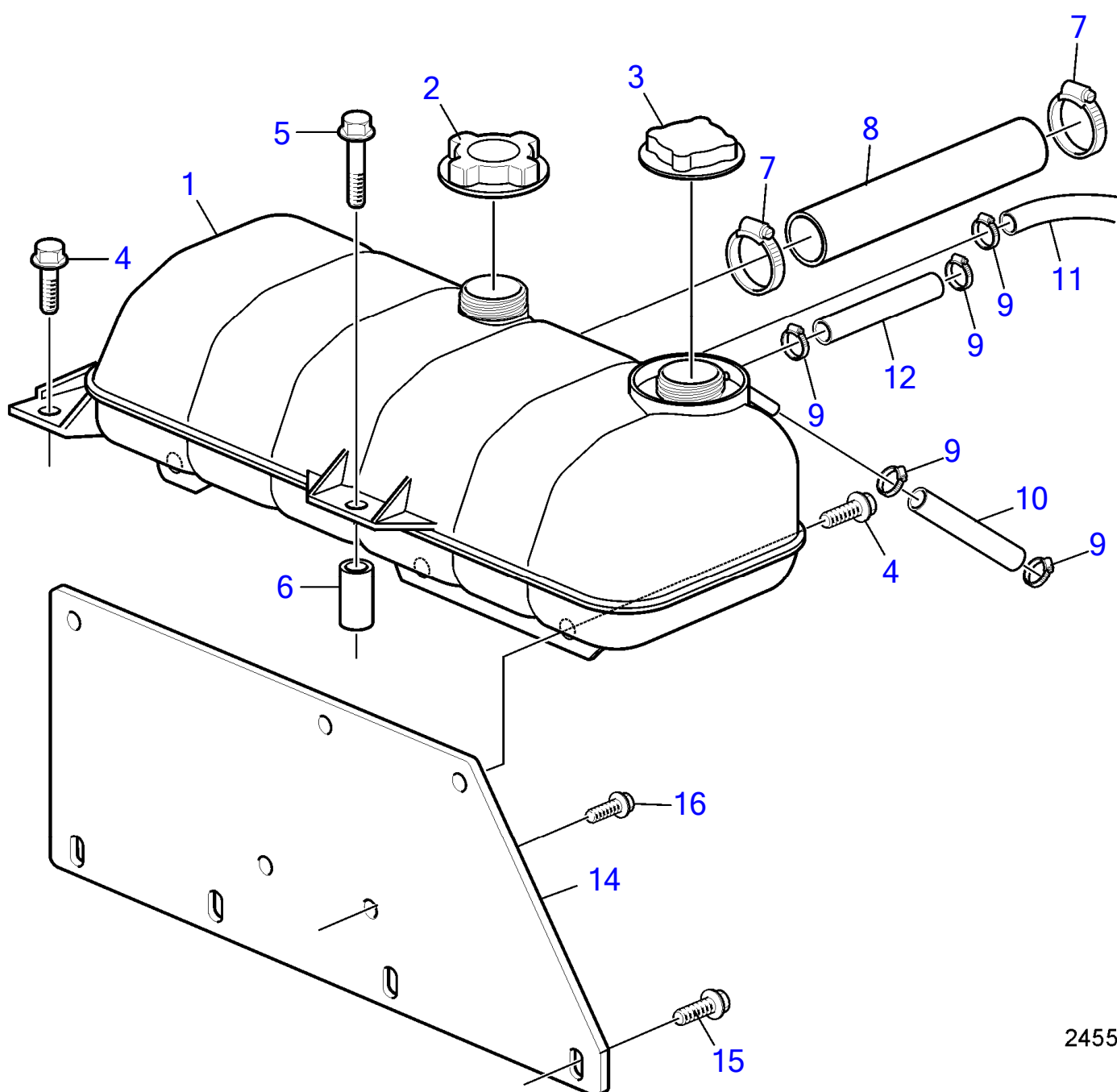
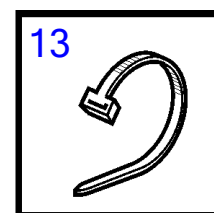
27438

26 Expansion Tank, SN2016079648-TAD1641VE, TAD1642VE, TAD1643VE, TAD1650VE, TAD1660VE, TAD1661VE, TAD1662VE,
TAD1640VE-B, TAD1641VE-B, TAD1642VE-B

Ref	Part No.	Qty	Description	Notes
1	1674916	1	Expansion tank	
2	1674083	1	Pressure cap	
3	1674922	1	Filler cap	
4	984733	5	Flange screw	
5	994556	5	Hose clamp	
6	990536	1	Rubber hose	L=850mm
7	22115314	1	Hose	
8	990536	1	Rubber hose	L=950mm
9	22085867	1	Bracket	
10	984733	6	Flange screw	
11	984734	1	Flange screw	
12	965546	1	Bracket	
13	990940	1	Flange nut	
14	942810	4	Clamp	
15	990536	1	Rubber hose	L=2200mm
16	994561	1	Hose clamp	
17	3842724	1	Warning decal	
18	3842243	1	Warning decal	
19	20777630	1	Label	
20	21506995	1	Label	
21	948211	X	Cable tie	



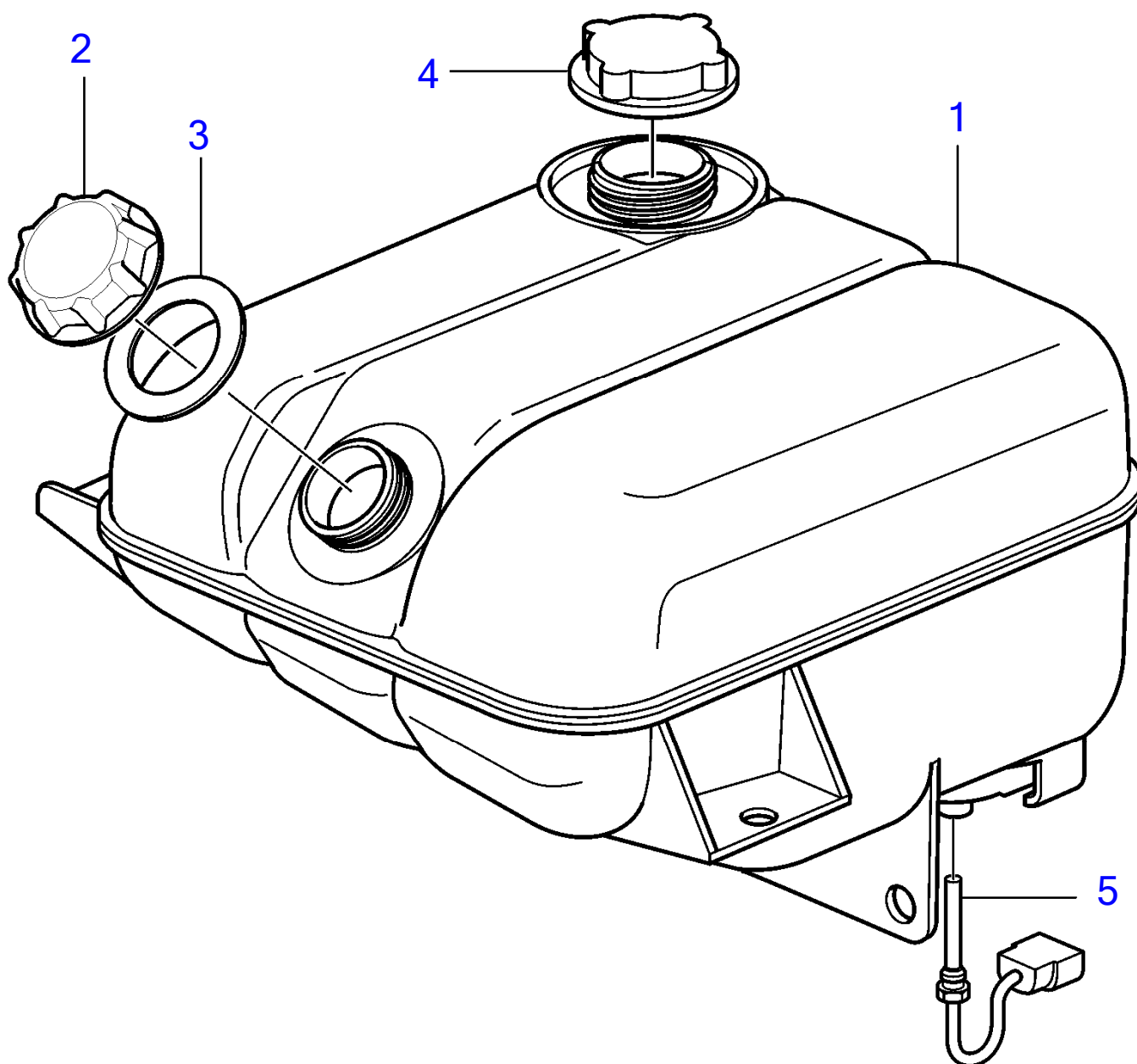
Ref	Part No.	Qty	Description	Notes
1	1674916	1	Expansion tank	
2	1674922	1	Filler cap	
3	1674083	1	Pressure cap	
4	984733	1	Flange screw	
5	994386	1	Flange screw	
6	847239	1	Spacer sleeve	
7	984734	3	Flange screw	
8	994561	2	Hose clamp	
9	21619272	X	Hose	L=1050mm
10	994556	5	Hose clamp	
11	943367	X	Rubber hose	Drain, expansion tank., L=1930mm
12	943367	X	Rubber hose	Mounted in cylinder head. for air ventilation to the expansion tank., L=850mm
13	943367	X	Rubber hose	Air vent hose, radiator., L=1430mm
14	948211	X	Cable tie	



24550

TAD1650VE

Ref	Part No.	Qty	Description	Notes
1	1674916	1	Expansion tank	
2	1674922	1	Filler cap	
3	1674083	1	Pressure cap	
4	984733	4	Flange screw	
5	994386	1	Flange screw	
6	847239	1	Spacer sleeve	
7	994561	2	Hose clamp	
8	21619272	X	Hose	L=1050mm
9	994556	5	Hose clamp	
10	943367	X	Rubber hose	Drain, expansion tank., L=1930mm
11	943367	X	Rubber hose	Mounted in cylinder head. for air ventilation to the expansion tank., L=850mm
12	943367	X	Rubber hose	Air vent hose, radiator., L=950mm
13	948211	X	Cable tie	
14	3587730	1	Bracket	
15	946472	2	Flange screw	
16	984752	2	Flange screw	

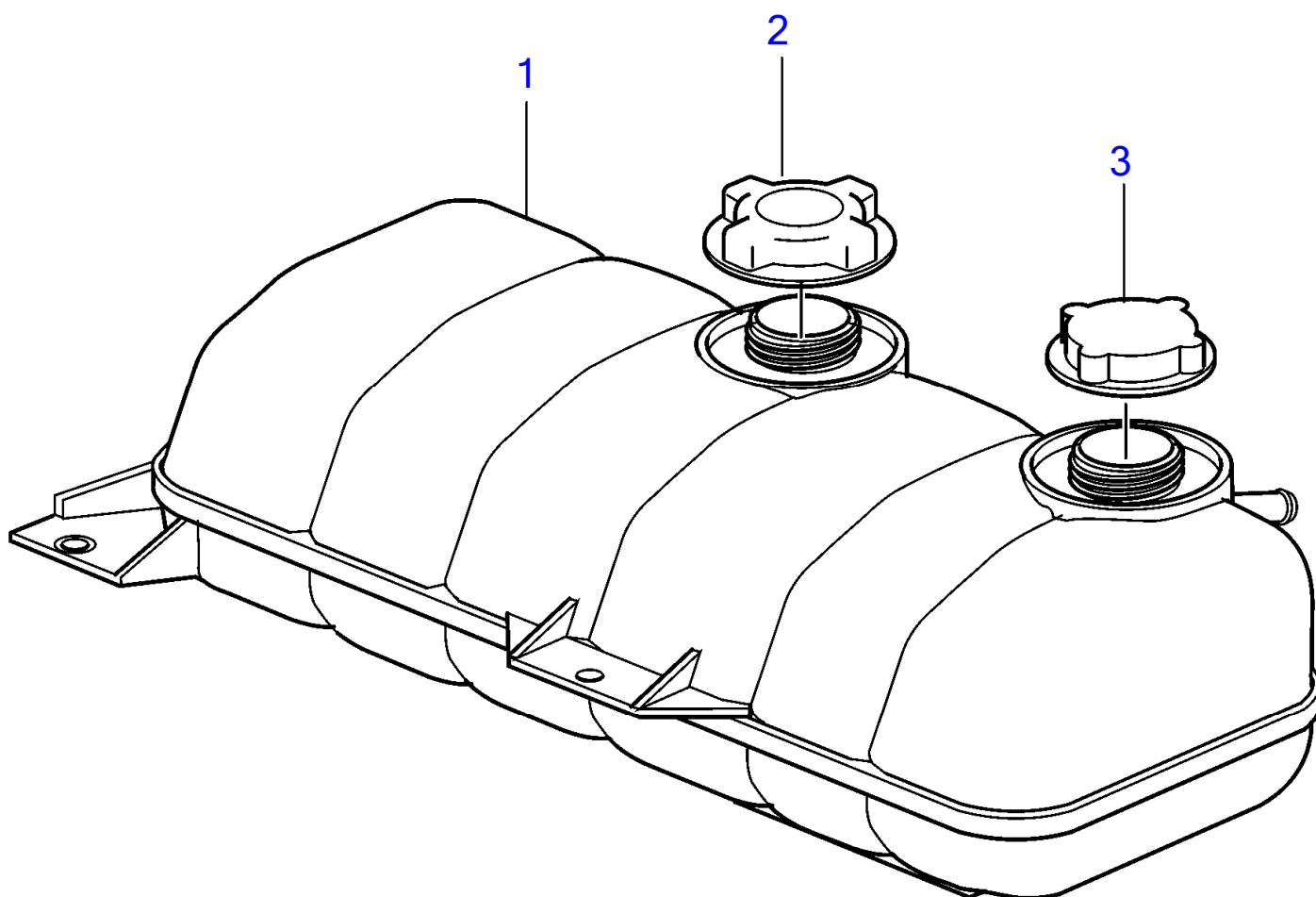


25613

26 Expansion Tank. Alternative Mounting. HD

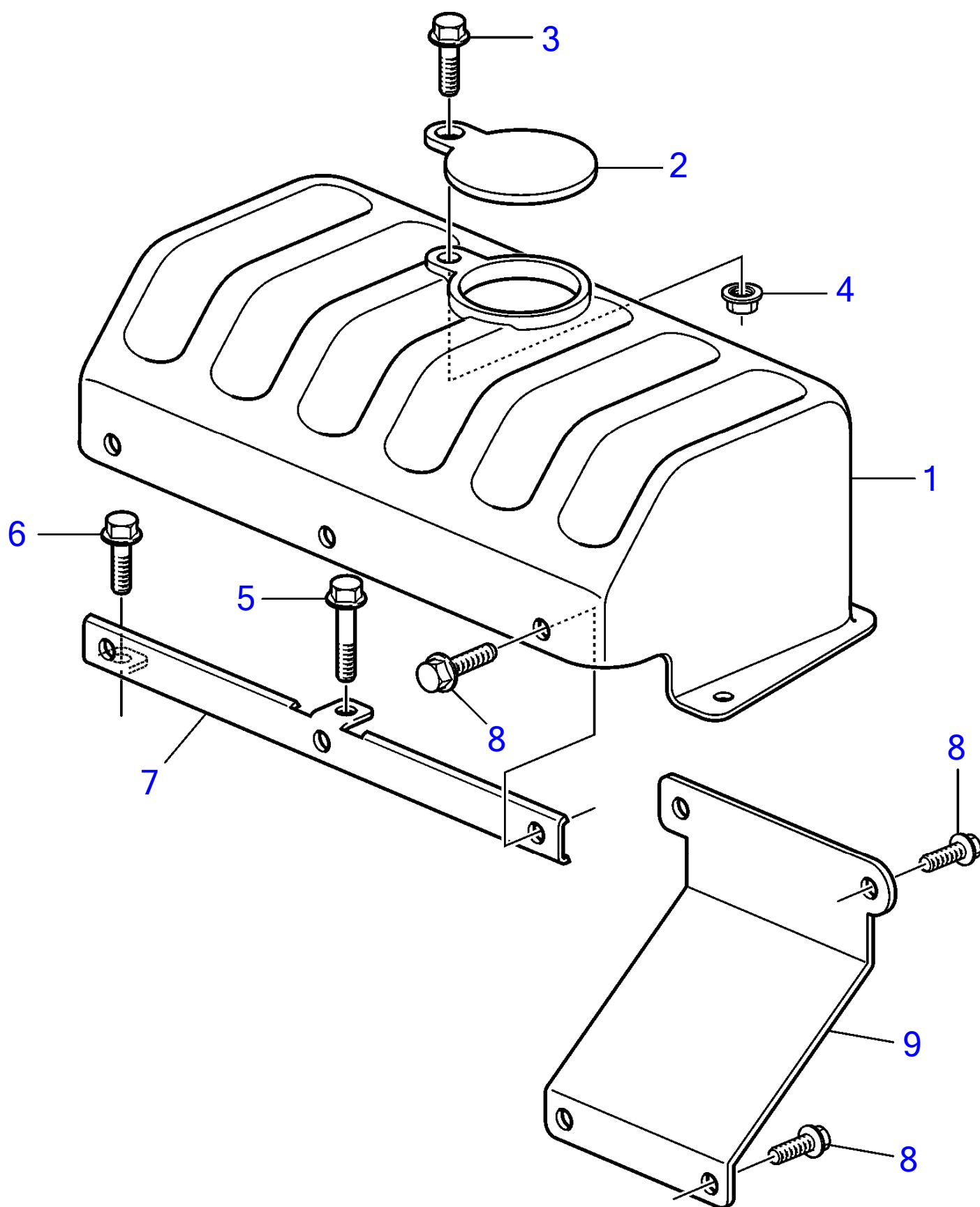
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TAD1640VE-B, TAD1641VE-B, TAD1642VE-B

Ref	Part No.	Qty	Description
1	17336823	1	Expansion tank
2	3979593	1	Filler cap
3		1	Gasket
4	1674083	1	Pressure cap
5	23329772	1	Level sensor



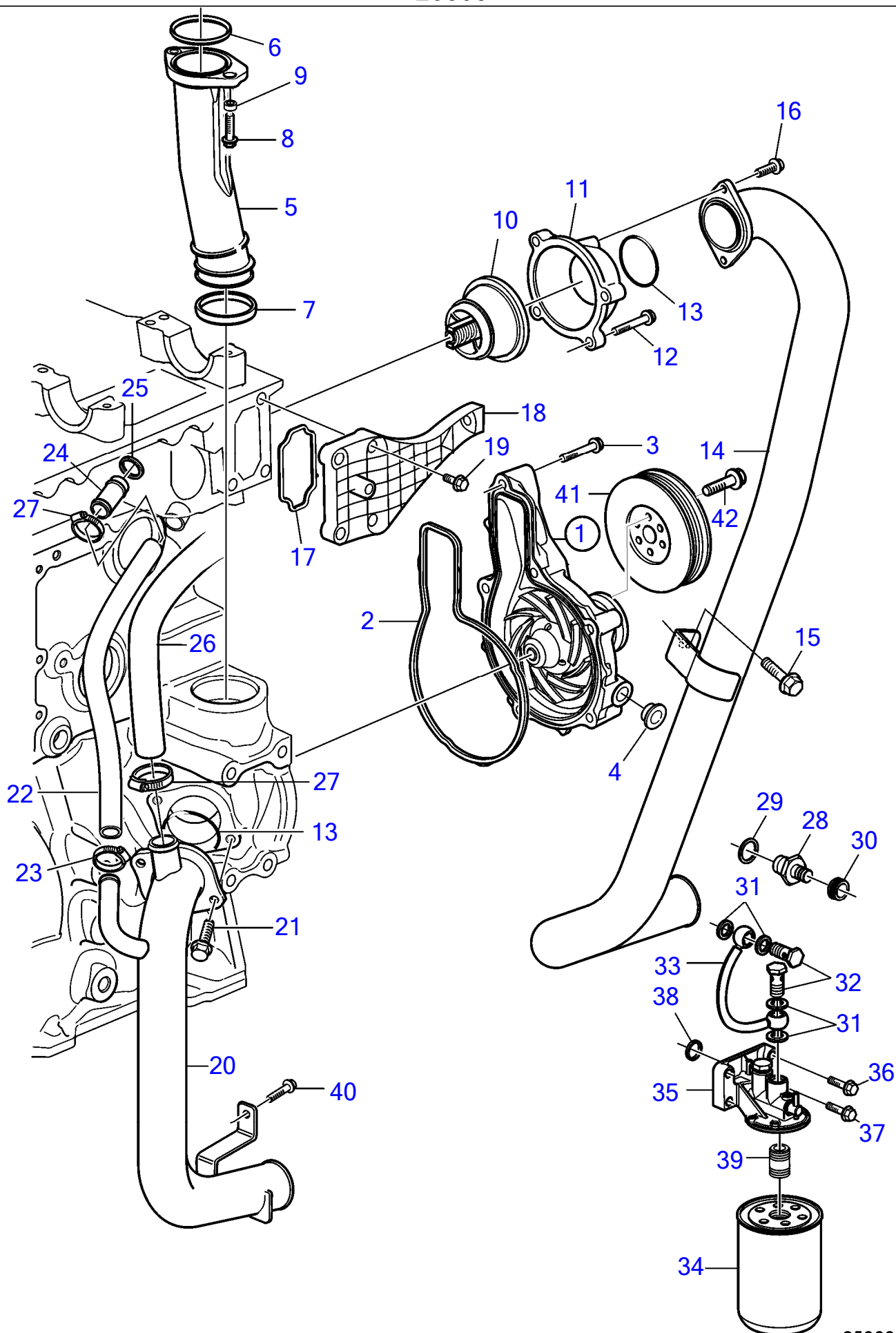
25727

Ref	Part No.	Qty	Description
1	1674916	1	Expansion tank
2	1674922	1	Filler cap
3	1674083	1	Pressure cap



20904

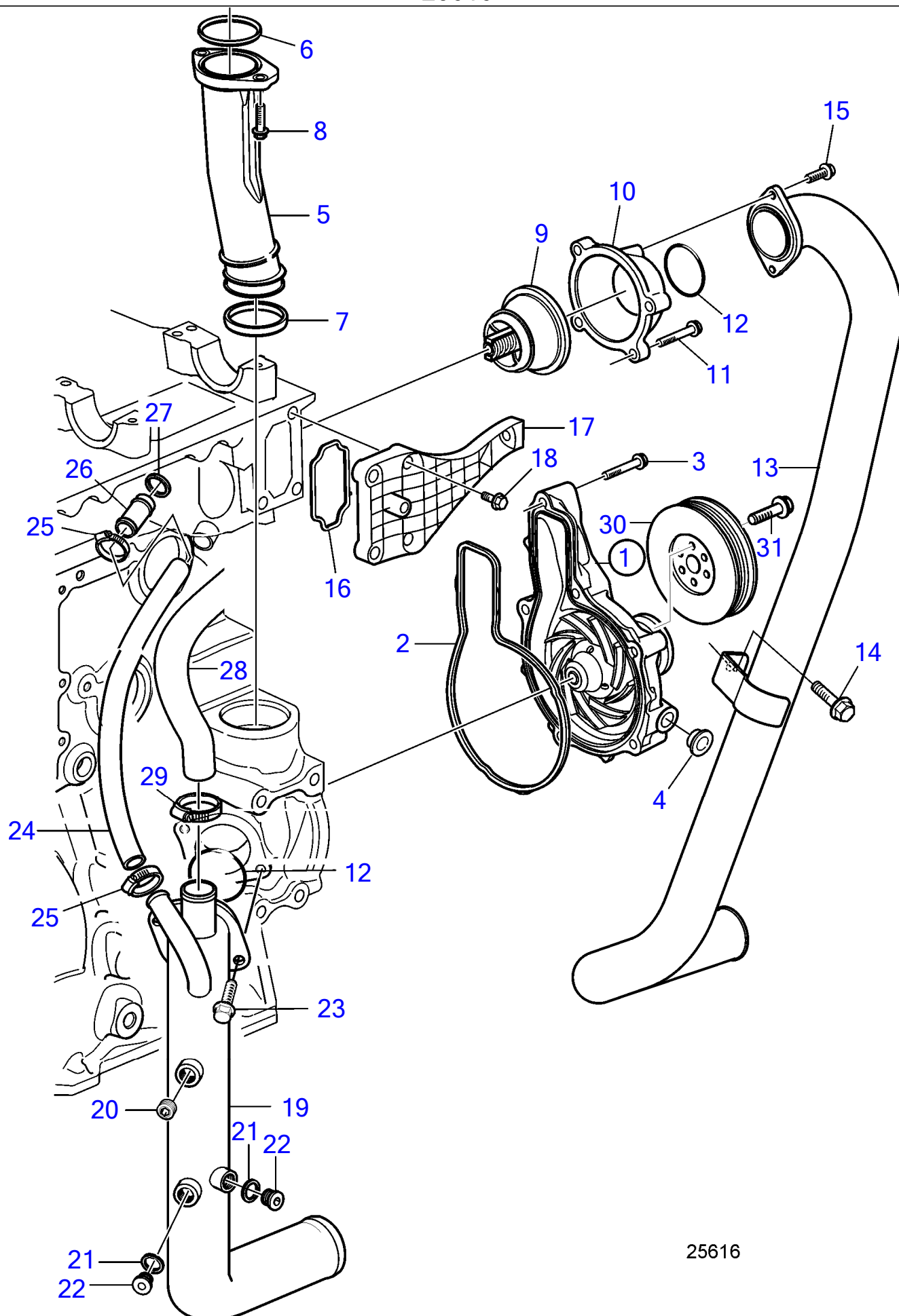
Ref	Part No.	Qty	Description
1	3839467	1	Protecting casing
2	3830539	1	Cover
3	984734	1	Flange screw
4	990940	1	Flange nut
5	994441	1	Flange screw
6	984734	1	Flange screw
7	3838877	1	Bracket
8	984733	7	Flange screw
9	3838878	1	Bracket



26 Water Pump, Thermostat Housing and Water Filter, Radiator Cooling

TAD1641VE, TAD1642VE, TAD1643VE, TAD1650VE, TAD1640VE-B, TAD1641VE-B, TAD1642VE-B

Ref	Part No.	Qty	Description	Notes
1	20451516	1	Pump unit	SN-9184 replaced by circulation pump 21468471
	21468471	1	Pump unit	SN9185-
	22195450	1	Pump unit	SN--2016101135
	22902431	1	Pump unit	SN2016101136-
	3801741	1	Coolant pump, exch	
2	21415427	1	Rubber moulding	SN-2016461816
	21103569	1	Rubber moulding	SN2016461817-
3	994386	6	Flange screw	
4	20464402	1	Plastic plug	
5	8131290	1	Connection pipe	Replaced by pipe 21420336 and sealing 21423788
	21420336	1	Connection pipe	
6	20381352	1	Sealing ring	For pipe 8131290
	21423788	1	Sealing ring	For pipe 21420336
7	20799996	1	Sealing ring	(425137)
8	984734	2	Flange screw	
9		2	Spacer sleeve	
10	21237213	1	Thermostat	82°C, Replaced by 21412639
	21412639	1	Thermostat	82°C Replaced by 21613426
	21613426	1	Thermostat	
11	3838404	1	Cover	
12	984736	4	Flange screw	
13	975675	2	O-ring	
14	3809986	1	Coolant pipe	
15	984815	1	Flange screw	
16	984735	2	Flange screw	
17	8131154	1	Seal	
18	20727018	1	Cover	
19	984734	4	Flange screw	
20	3838168	1	Coolant pipe	With bracket and screw 984734
	21418790	1	Coolant pipe	TAD1643VE without bracket and screw 984734
21	984735	2	Flange screw	
22	969033	X	Rubber hose	Thermostat housing-water pump., L=340mm
23	994559	2	Hose clamp	
24	3838735	1	Connection pipe	
25	1547252	1	Sealing ring	
26	21619272	1	Hose	Expansion tank- water pump., L=1050mm
27	961666	2	Hose clamp	
28	1676622	1	Nipple	Replaced by 1pc drain cock 949918, 1pc reduction nipple 191068 and 1pc elbow nipple
29	979099	1	Gasket	
30	476279	1	Protecting cap	
31	969011	4	Gasket	
32	25167	2	Hollow screw	
33	20729344	1	Hose	
34	21192875	1	Coolant filter	
35	20459650	1	Bracket	
36	984736	3	Flange screw	
37	994386	1	Flange screw	
38	469846	1	Sealing ring	
39	1676554	1	Nipple	
40	984734	1	Flange screw	
41	8149475	1	Pulley	For water pump 20451516
	20538853	1	Pulley	For water pump 20744939
42	969598	5	Six point socket scr	For water pump 20451516
	984732	5	Flange screw	For water pump 20744939

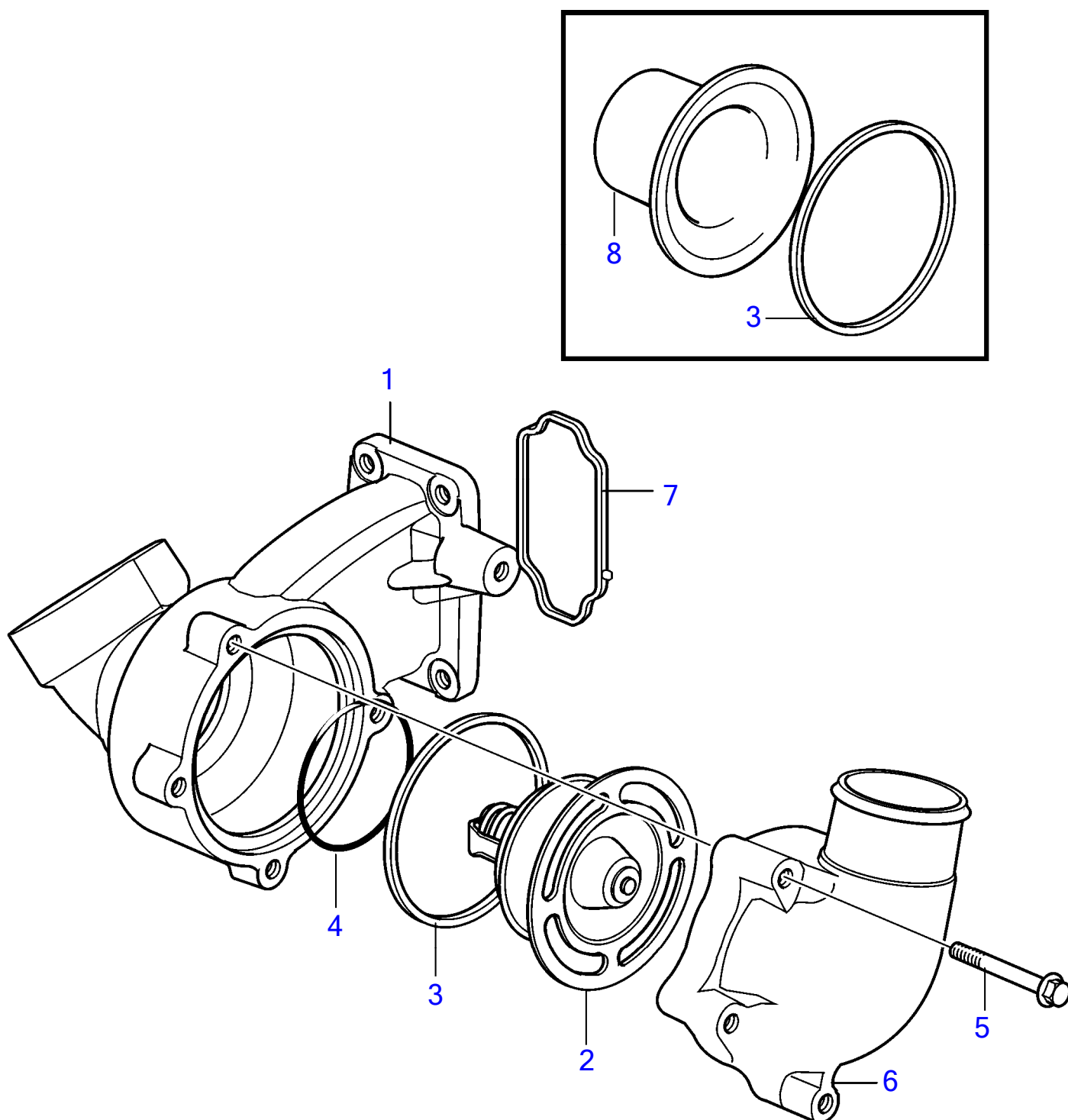


25616

26 Water Pump and Thermostat Housing, Radiator Cooling

TAD1660VE, TAD1661VE, TAD1662VE

Ref	Part No.	Qty	Description	Notes
1	20744939	1	Pump unit	
	3801102	1	Coolant pump, exch	
	21228793	1	Pump unit	
	21468471	1	Pump unit	
	22195450	1	Pump unit	SN-2016101135
	22902431	1	Pump unit	SN2016101136-
	3801741	1	Coolant pump, exch	
2	21415427	1	Rubber moulding	
	21103569	1	Rubber moulding	SN2016461817-
3	994386	6	Flange screw	
4	842235	1	Cap	
5	21420336	1	Connection pipe	
6	21423788	1	Sealing ring	
7	20799996	1	Sealing ring	
8	984734	2	Flange screw	
9	21412639	1	Thermostat	82°C
	21613426	1	Thermostat	82 degrees
10	3838404	1	Cover	
11	984734	4	Flange screw	
12	975675	2	O-ring	
13	3809986	1	Coolant pipe	
14	984815	1	Flange screw	
15	984735	2	Flange screw	
16	8131154	1	Seal	
17	20727018	1	Cover	
18	973924	4	Flange screw	
19	21418790	1	Coolant pipe	
20	968063	1	Plug	
21	969011	2	Gasket	
22	945065	2	Plug	
23	984735	2	Flange screw	
24	969033	X	Rubber hose	Thermostat housing-water pump., L=340mm
25	961666	2	Hose clamp	
26	3838735	1	Connection pipe	
27	1547252	1	Sealing ring	
28	21619272	X	Hose	Expansion tank- water pump., L=1050mm
29	961666	2	Hose clamp	
30	20538853	1	Pulley	
31	984732	5	Flange screw	



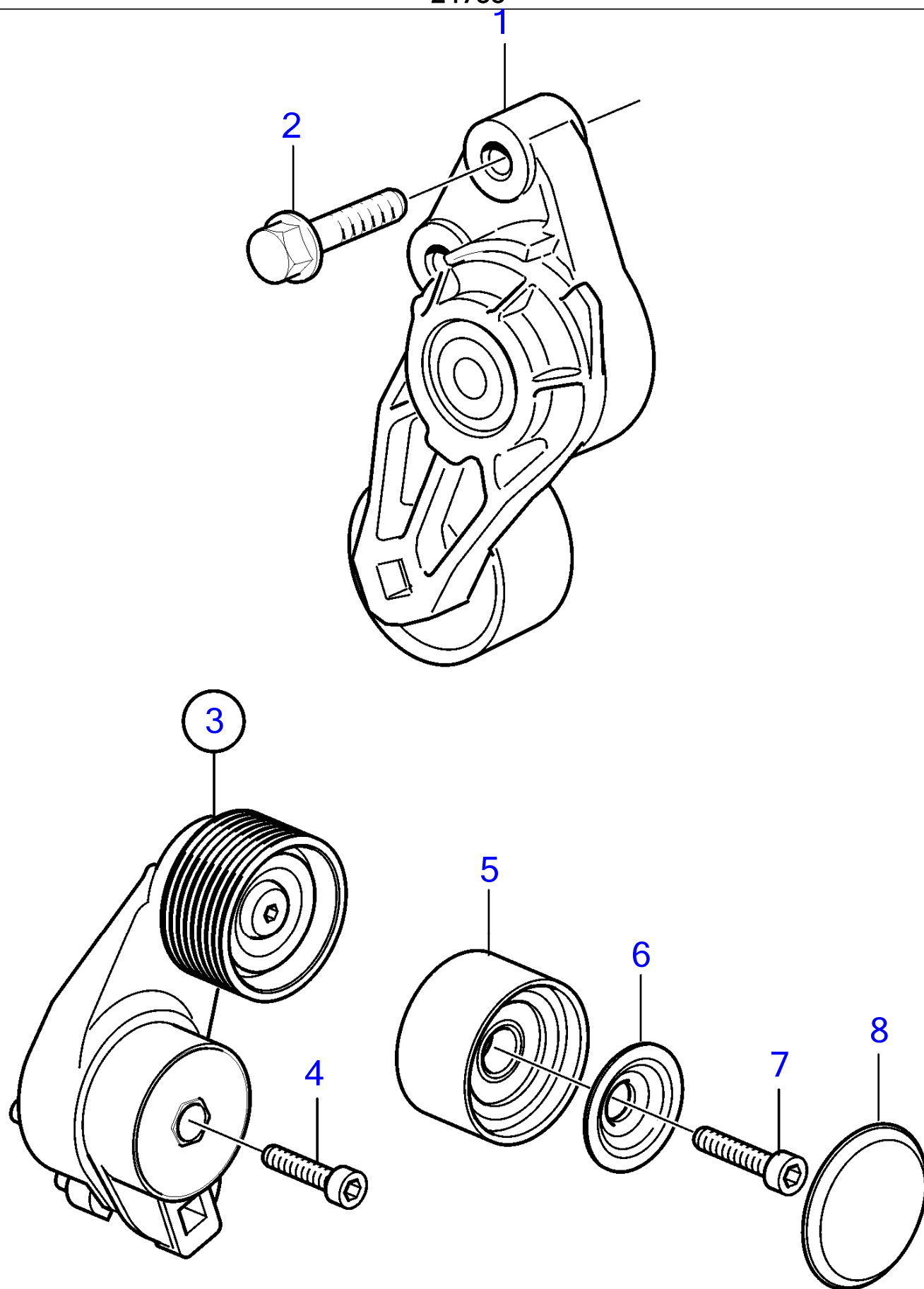
26481

26 Retarder. Thermostat Housing

TAD1641VE, TAD1642VE, TAD1643VE, TAD1650VE

Ref	Part No.	Qty	Description	Notes
1	8131159	1	Thermostat housing	
2	21412639	1	Thermostat	Replaced by 21613426
	21613426	1	Thermostat	82 degrees
3	21503575	2	• Sealing ring	
4		1	• O-ring	
5	973924	4	Flange screw	
6	21861948	1	Cover	
7	8131154	1	Seal	
8	21525512	1	Connection pipe	

24733

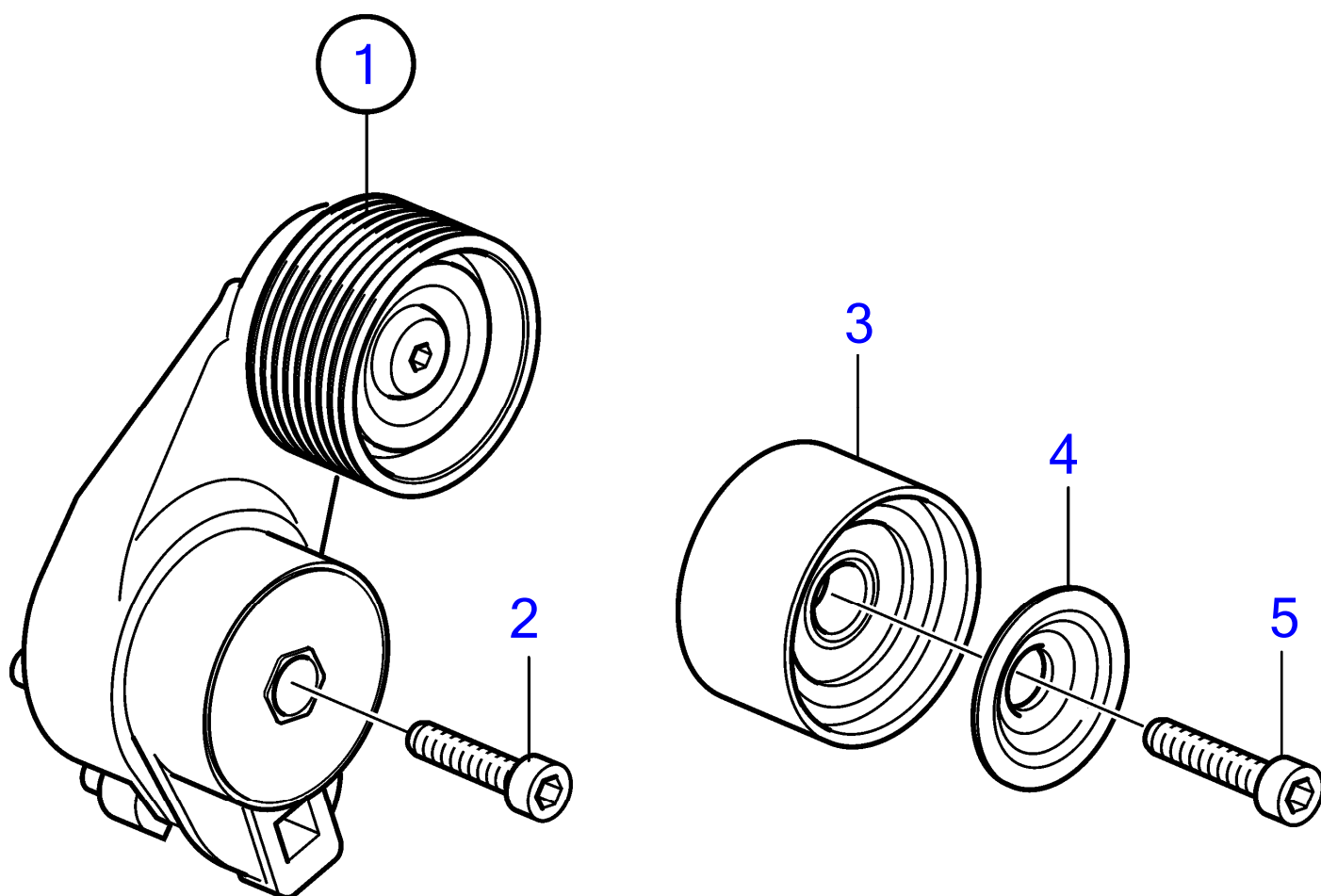


24733

26 Belt Transmission and Belt Tensioner Device

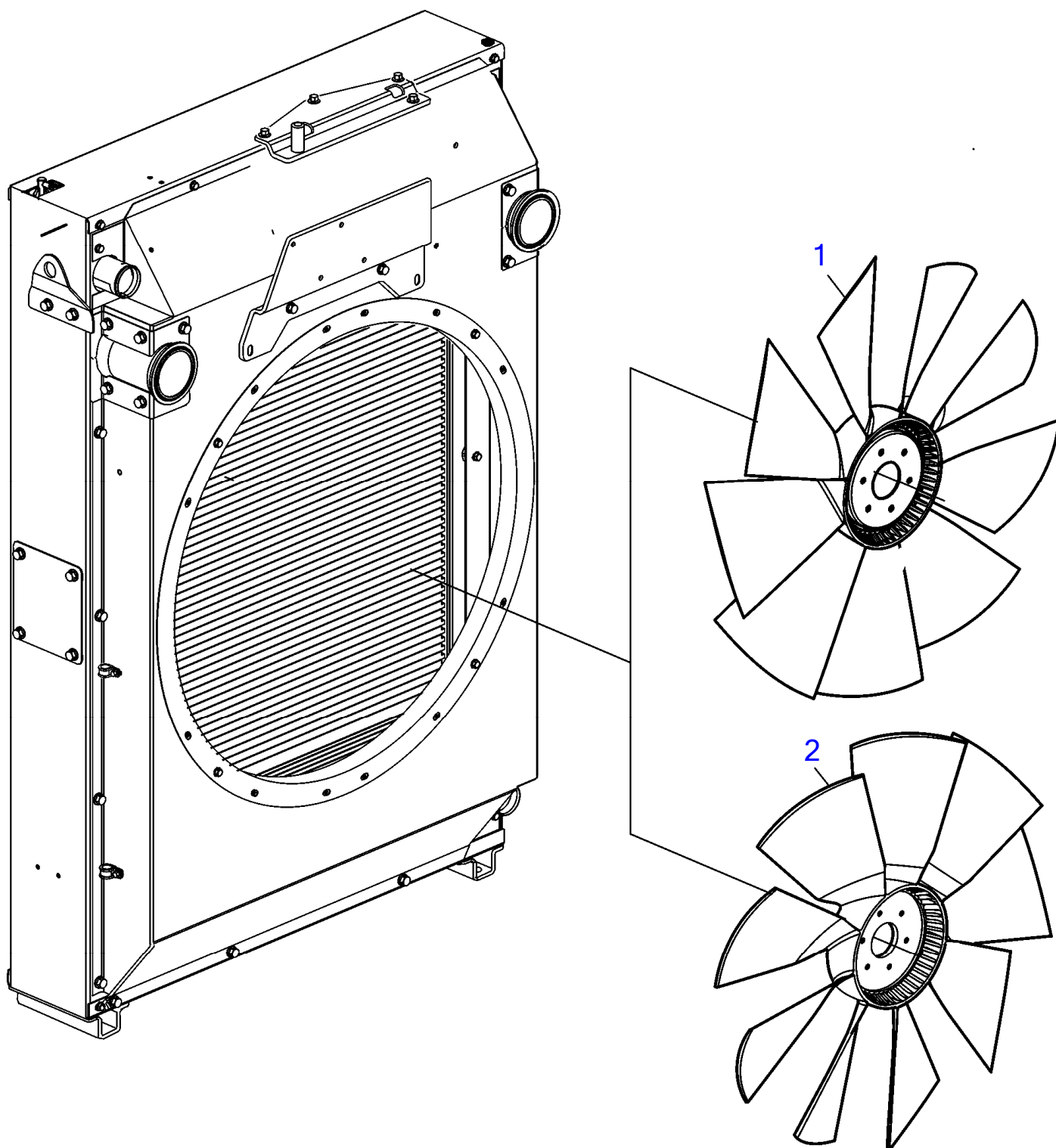
TAD1641VE, TAD1642VE, TAD1643VE

Ref	Part No.	Qty	Description	Notes
1	20762060	1	Belt tensioner • parts not sold separately	
2	21344756	2	Flange screw	
3	21155561	1	Belt tensioner • parts not sold separately	
4	959245	1	Hex. socket screw	
5	21676635	1	Idler pulley	Complete with pulley,Dustcover,bolt.
	20503093	1	Idler pulley	
	3809502	1	Idler pulley	
	3887305	1	• Idler pulley	Singel,Includes in 21676635
6	3809563	1	• Cap	
7	984752	1	• Flange screw	
8	21717627	1	• Dust cover	



25617

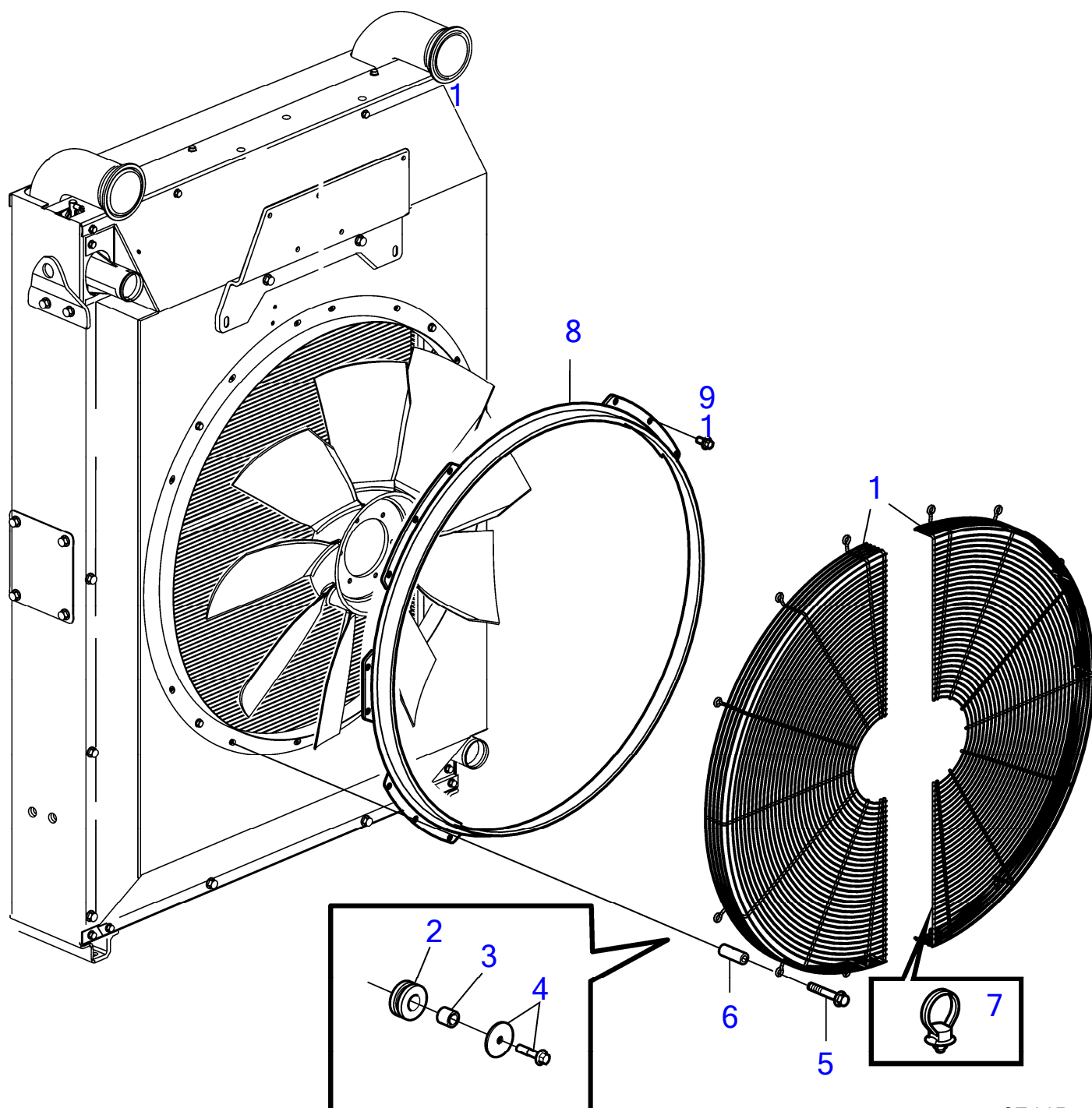
Ref	Part No.	Qty	Description	Notes
1	21145261	1	Belt tensioner • parts not sold separately	
2	959245	1	Hex. socket screw	
3	20503093	1	Idler pulley	(3809502)
	3809502	1	Idler pulley	(3887305)
	3887305	1	Idler pulley	
4	3809563	1	Cap	
5	984752	1	Flange screw	



27441

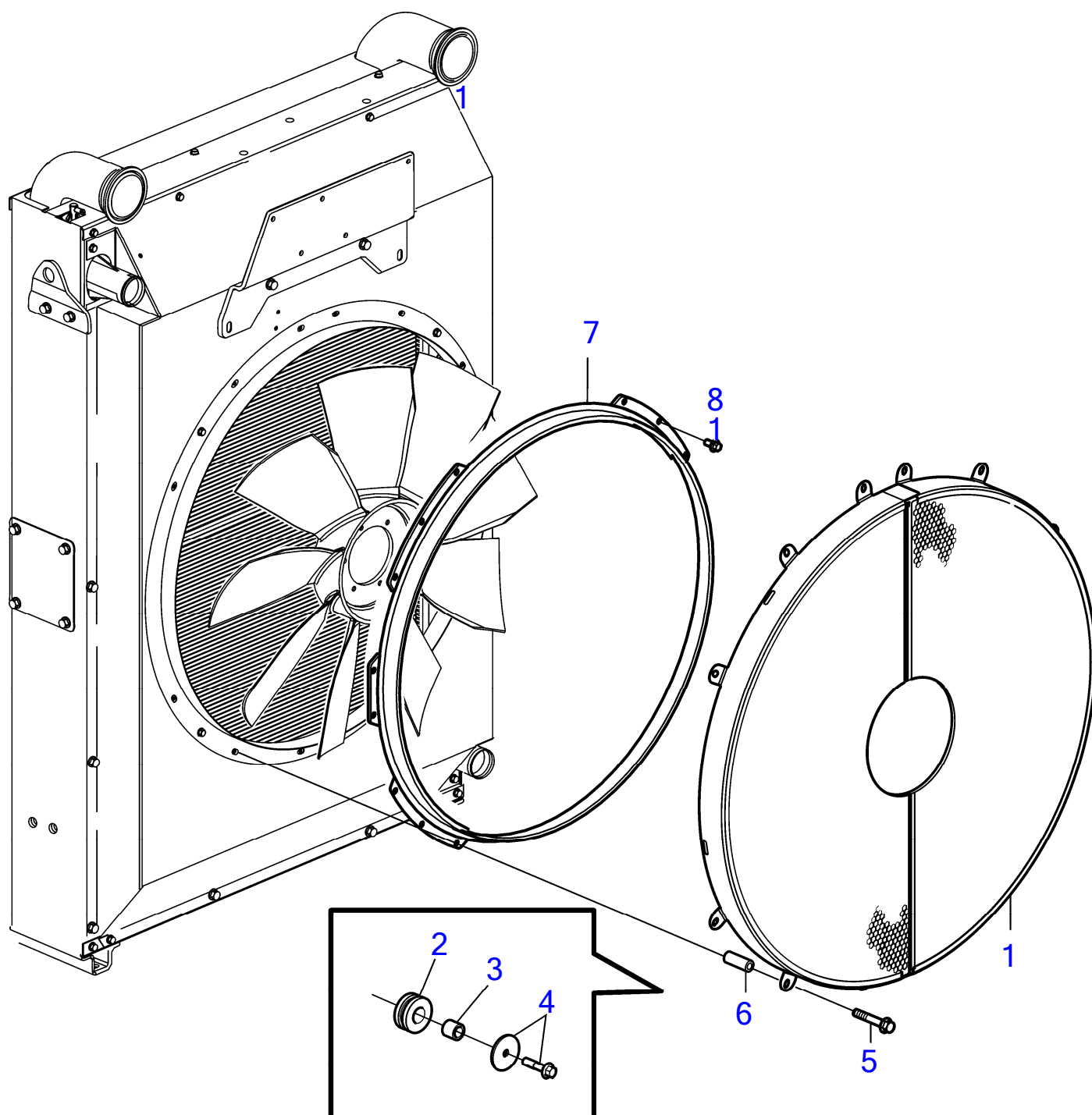
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TAD1640VE-B, TAD1641VE-B, TAD1642VE-B

Ref	Part No.	Qty	Description	Notes
1	3828964	1	Fan	Pushing fan
	3595217	1	Fan	Pushing fan, Visco
	3594168	1	Fan	890 Pusher, No Cut-Out
2	3828963	1	Fan	Suction fan
	21210284	1	Fan	Suction fan, Visco



27445

Ref	Part No.	Qty	Description	Notes
1	3825490	2	Fan guard	SN-2016108826
			• Bulletin p-26-1-111	New Fan Guard
1	78467466	2	Fan guard	SN2016108827-
2	21860181	12	• Rubber damper	
3	845988	12	• Spacer sleeve	
4	22147274	12	• Flange screw	
5	994386	12	Flange screw	For Fan Guard 3825490
6	807257	12	Spacer sleeve	For Fan Guard 3825490
7	948210	8	Cable tie	
8	78467816	1	Fan ring	SN2016108827-
9	984733	10	Flange screw	

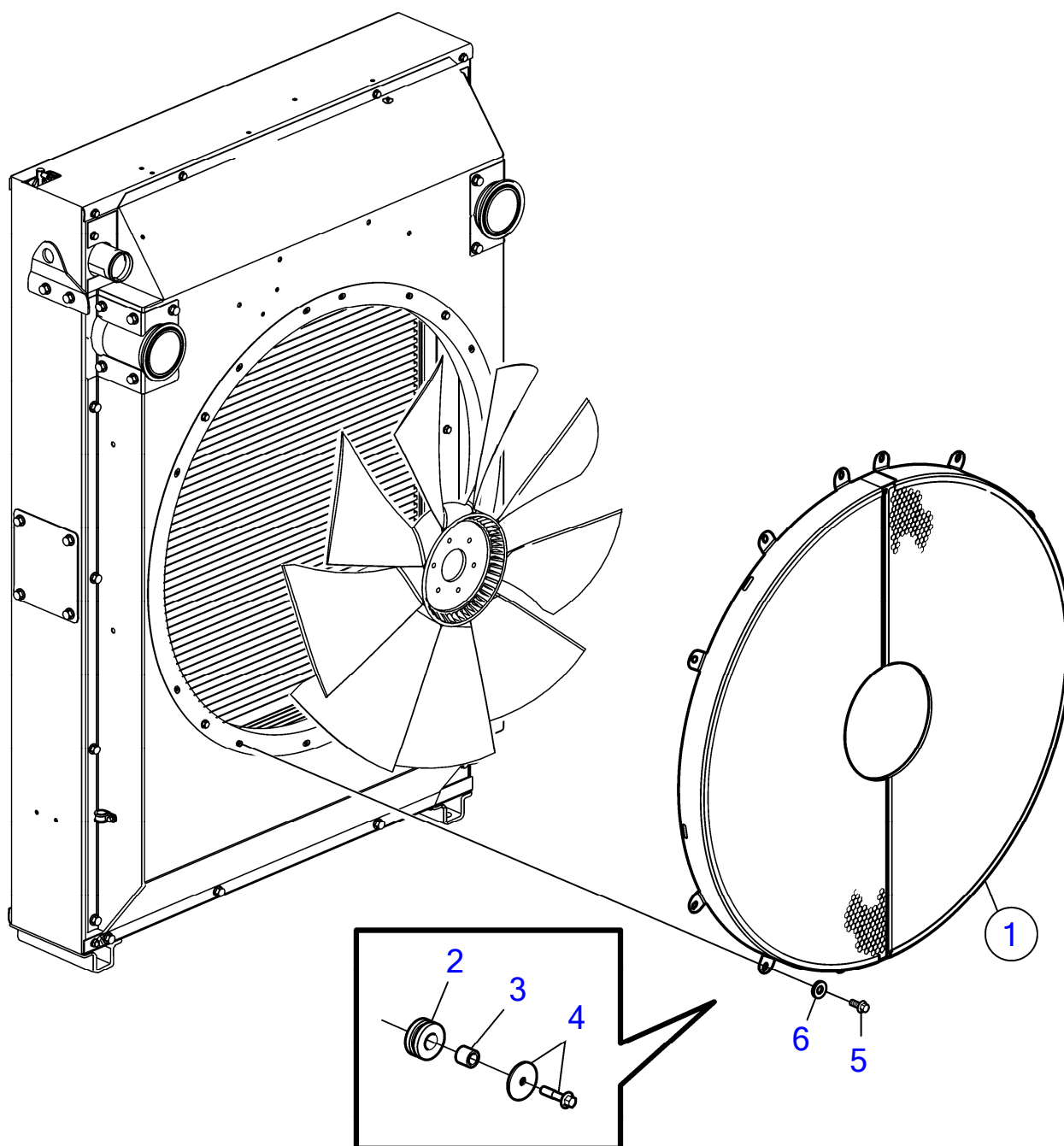


29484

26 Fan Shroud, Suction, SN2016079648-

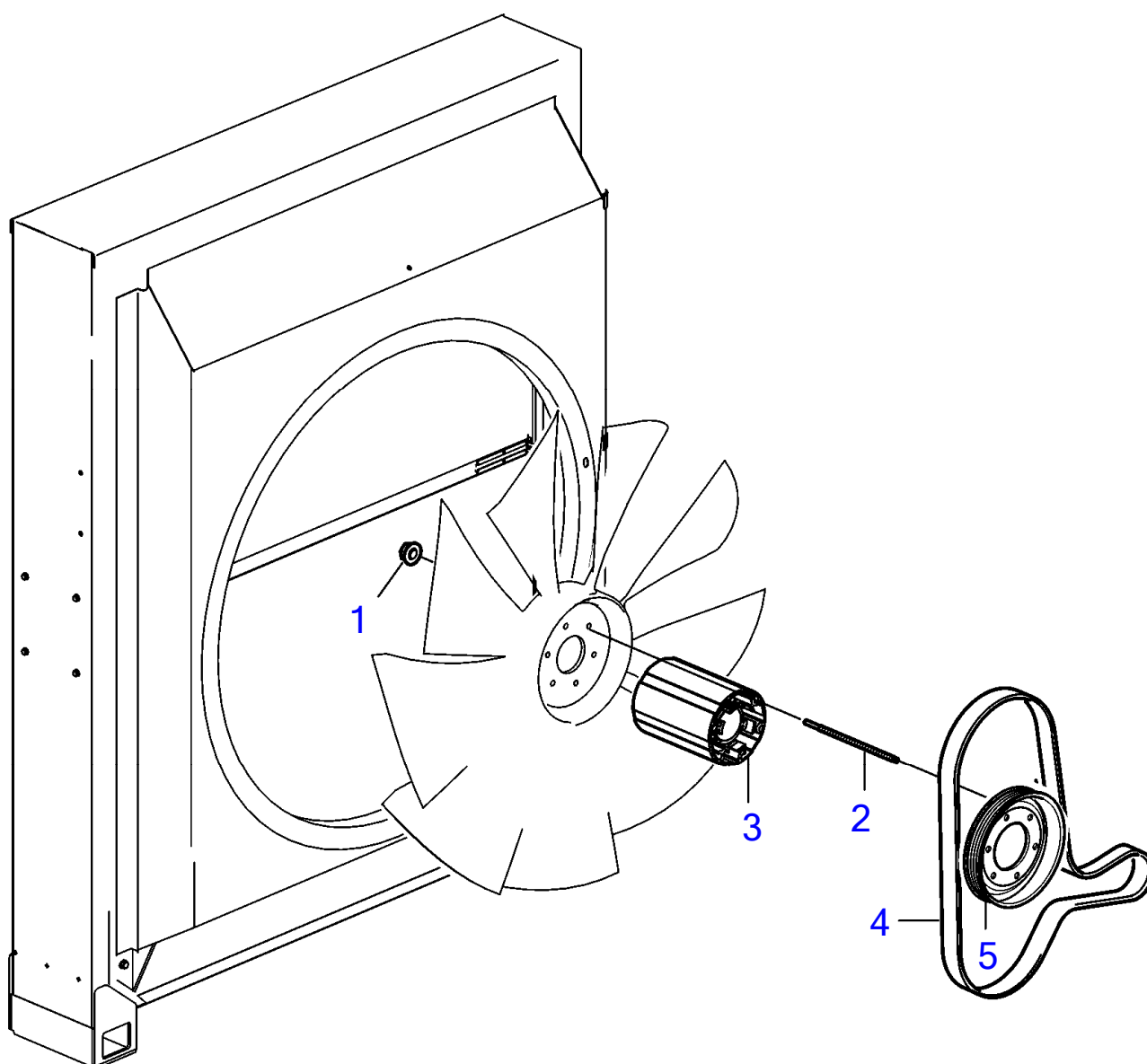
TAD1660VE, TAD1662VE, TAD1640VE-B, TAD1641VE-B, TAD1642VE-B

Ref	Part No.	Qty	Description	Notes
1	21784986	2	Fan guard	SN-2016108826
			• Bulletin p-26-1-111	New Fan Guard
1	78467466	2	Fan guard	SN2016108827-
2	21860181	12	• Rubber damper	
3	845988	12	• Spacer sleeve	
4	22147274	12	• Flange screw	
5	984739	12	Flange screw	For Fan Guard 21784986
6	823494	12	Spacer sleeve	For Fan Guard 21784986
7	78467816	1	Fan ring	For Fan Guard 78467466
8	984733	10	Flange screw	



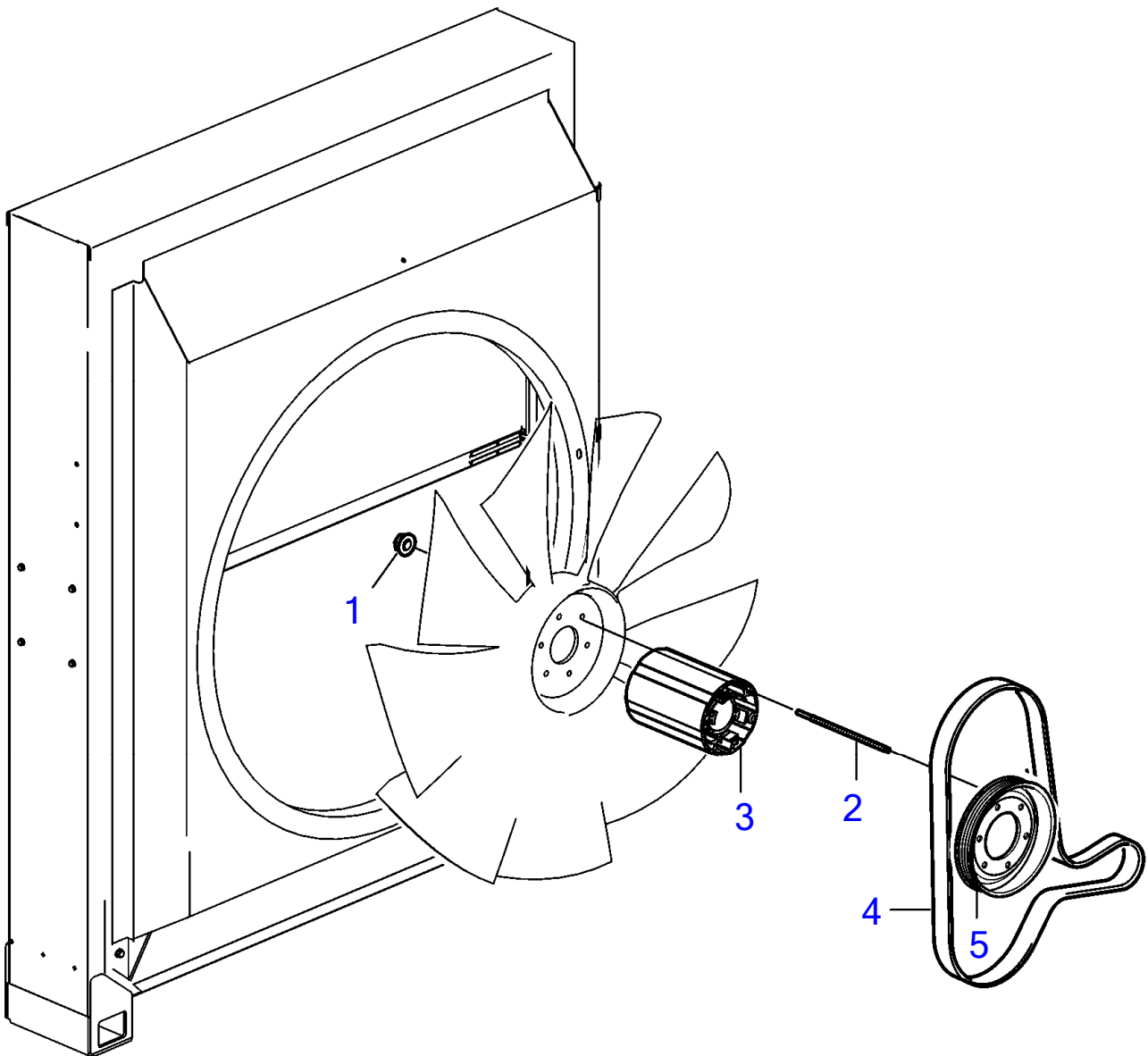
29415

Ref	Part No.	Qty	Description	Notes
1	21784986	2	Fan guard	SN-2016107282
			• Bulletin p-26-1-111	New Fan Guard
1	78467466	2	Fan guard	SN2016107283-
2	21860181	12	• Rubber damper	
3	845988	12	• Spacer sleeve	
4	22147274	12	• Flange screw	
5	984734	12	Flange screw	For Fan Guard 21784986
6	976944	12	Washer	For Fan Guard 21784986



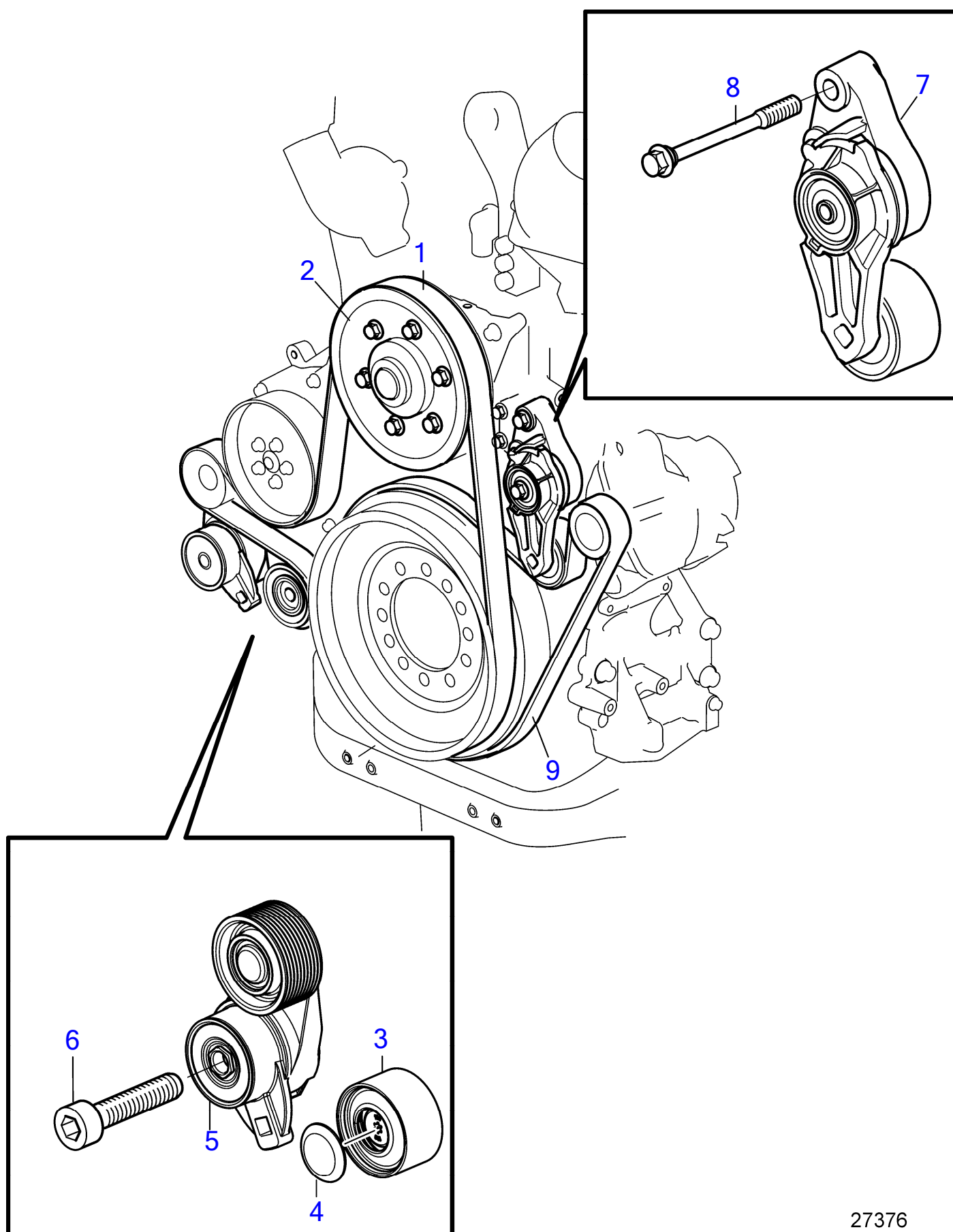
27463

Ref	Part No.	Qty	Description
1	990941	6	Flange nut
2	130204	6	Stud
3	3829537	1	Fan hub
4	3819398	1	V-ribbed belt
5	3829957	1	Pulley



27463

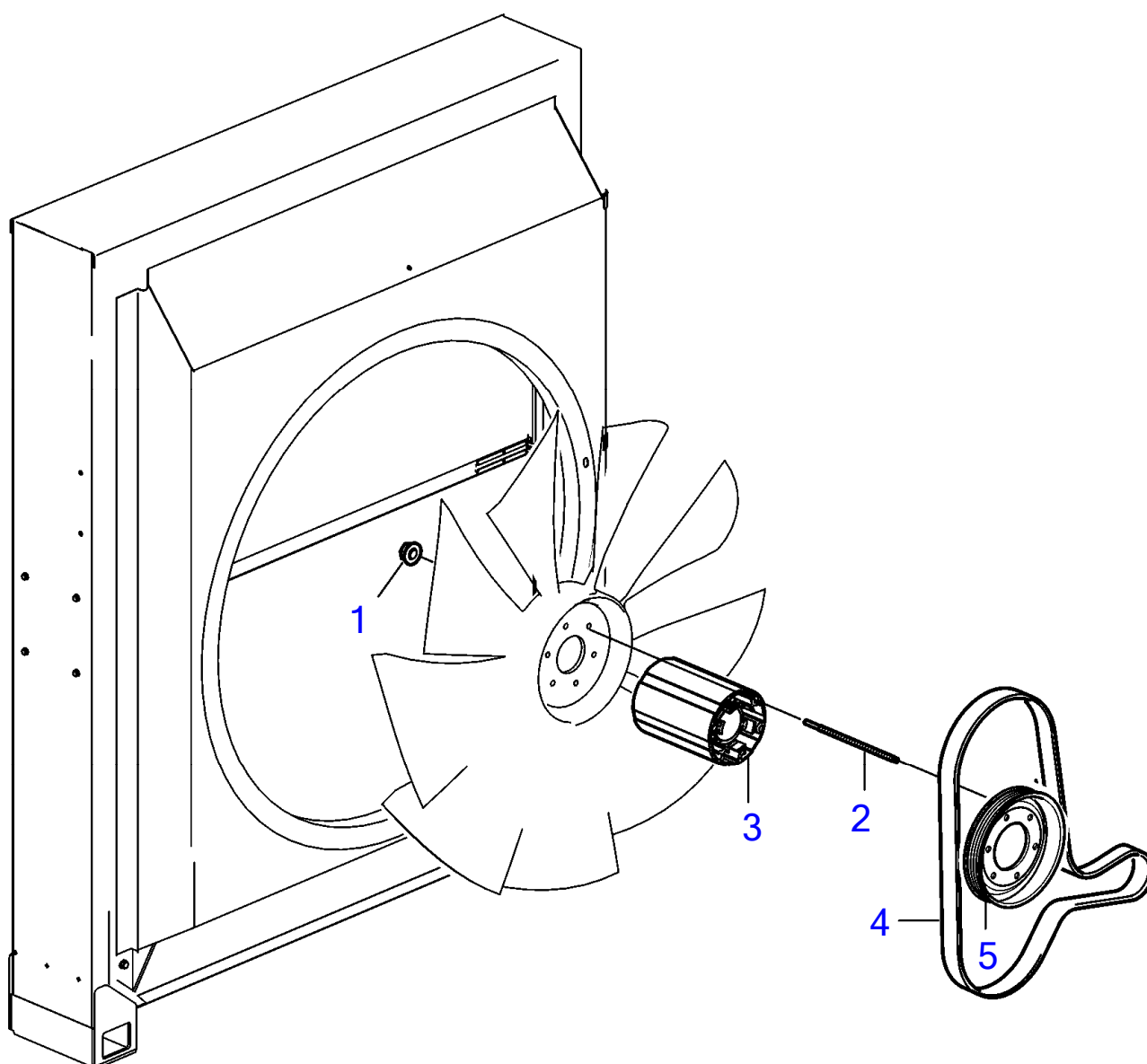
Ref	Part No.	Qty	Description
1	990941	6	Flange nut
2	130204	6	Stud
3	3829537	1	Fan hub
4	3838617	1	V-ribbed belt
5	3829958	1	Pulley



27376

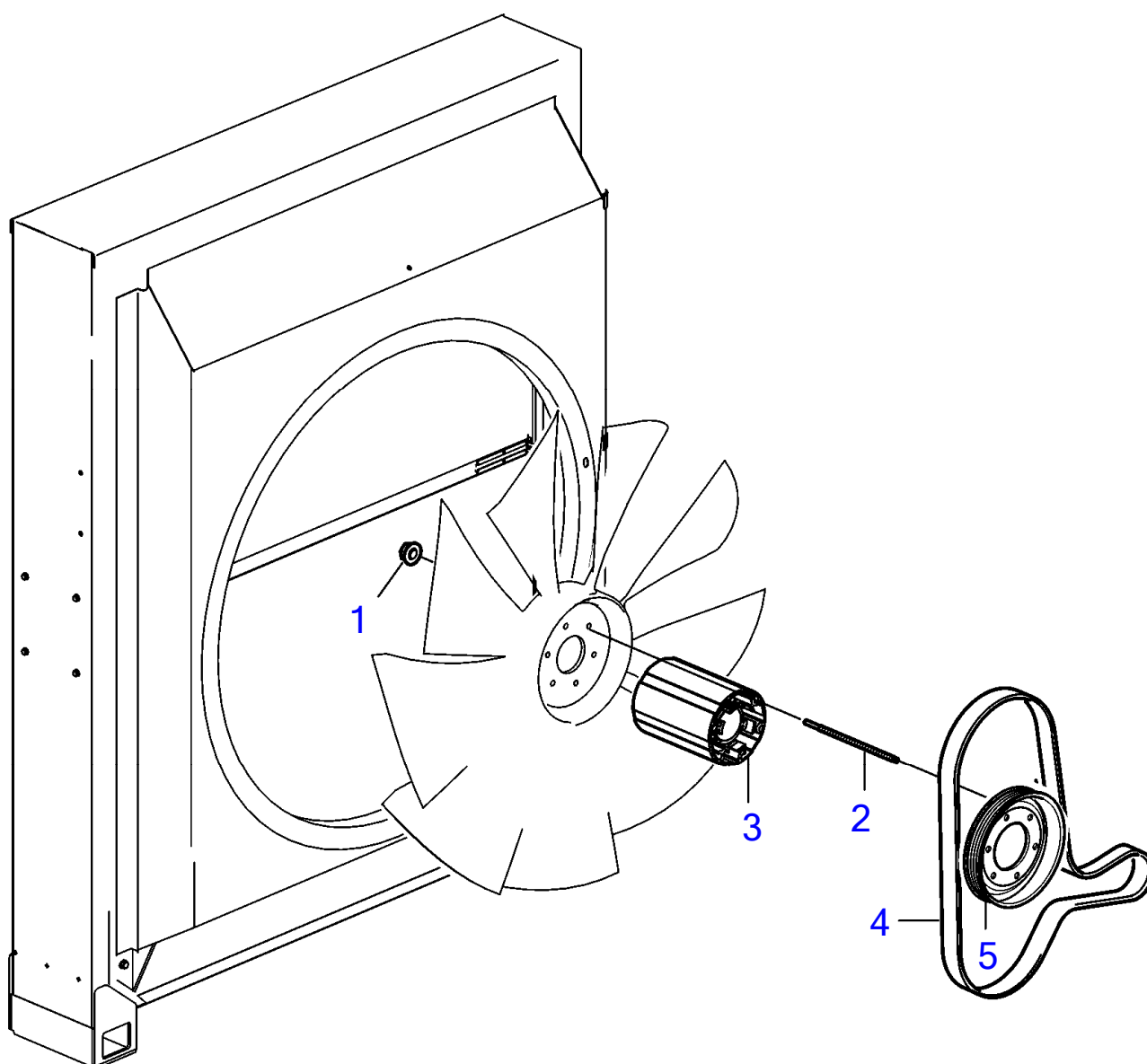
TAD1641VE, TAD1642VE, TAD1643VE, TAD1650VE, TAD1660VE, TAD1661VE, TAD1662VE,
TAD1640VE-B, TAD1641VE-B, TAD1642VE-B

Ref	Part No.	Qty	Description	Notes
1	3838617	1	V-ribbed belt	For TAD1641/42/43/50VE, Ratio 1.04:1, L=1620mm
	3827075	1	V-ribbed belt	For TAD1641/42/43/50VE, Ratio 0.97:1, L=1635mm
	3883978	1	V-ribbed belt	Only for TAD1660/61/62VE, Ratio 0.97:1, L=1675mm
	3819398	1	V-ribbed belt	Only for TAD1660/61/62VE, Ratio 0.97:1, L=1647mm
2	3829958	1	Pulley	Ratio 1.04:1, D=227mm
	3828043	1	Pulley	Ratio 0.97:1, D=244mm
3	21676635	1	Idler pulley	
4	21717627	1	Dust cover	
5	21631484	1	Belt tensioner	
6	959245	1	Hex. socket screw	
7	21422767	1	Belt tensioner	
8	21344756	2	Flange screw	
9	20430376	1	V-ribbed belt	L=1320mm



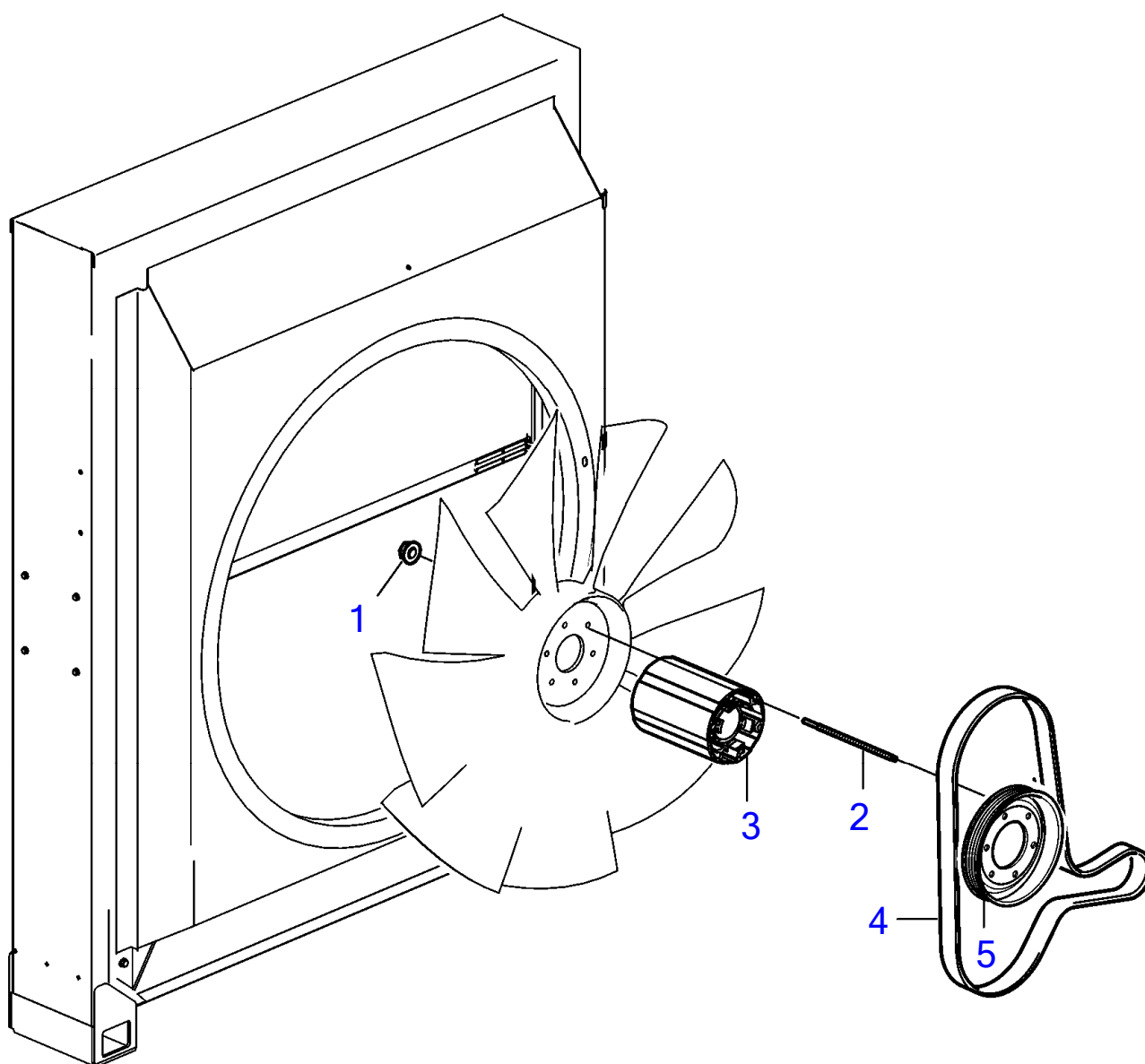
27463

Ref	Part No.	Qty	Description	Notes
1	990941	6	Flange nut	
2	130204	6	Stud	
	981590	6	Stud	Ratio 1:13:1 for pulley 3807446
3	3829537	1	Fan hub	
	3837740	1	Fan hub	Ratio 1:13:1 for pulley 3807446
4	3838617	1	V-ribbed belt	For Pulleys 3829958 and 3807446
	3819398	1	V-ribbed belt	For pulley 3829957, For TAD1641GE
5	3829958	1	Pulley	Ratio 1:1,0
	3829957	1	Pulley	Ratio 0.97:1, For TAD1641GE
	3807446	1	Pulley	DIA=212mm, Ratio 1:13:1



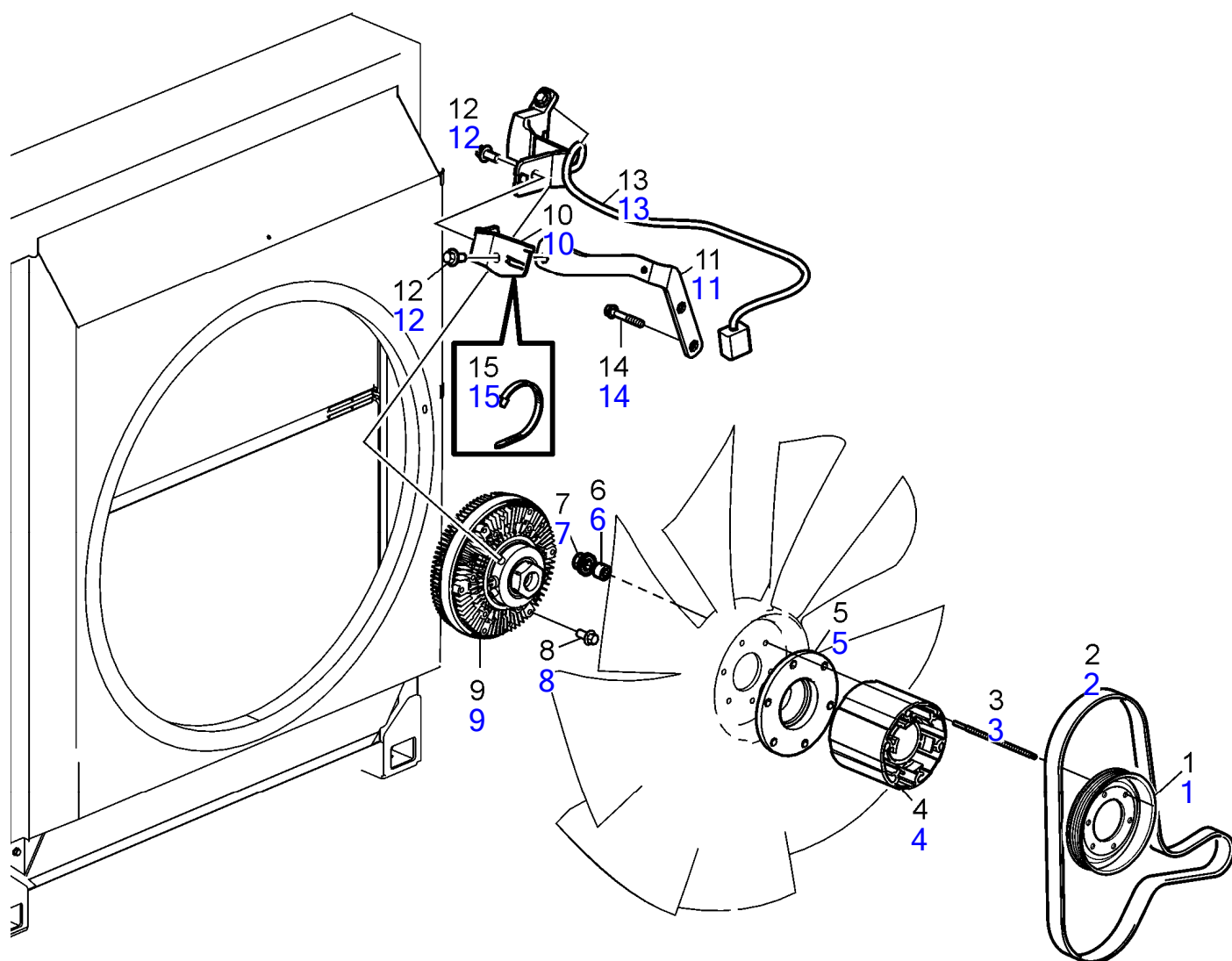
27463

Ref	Part No.	Qty	Description
1	990941	6	Flange nut
2	130204	6	Stud
3	3829537	1	Fan hub
4	3819398	1	V-ribbed belt
5	3829957	1	Pulley



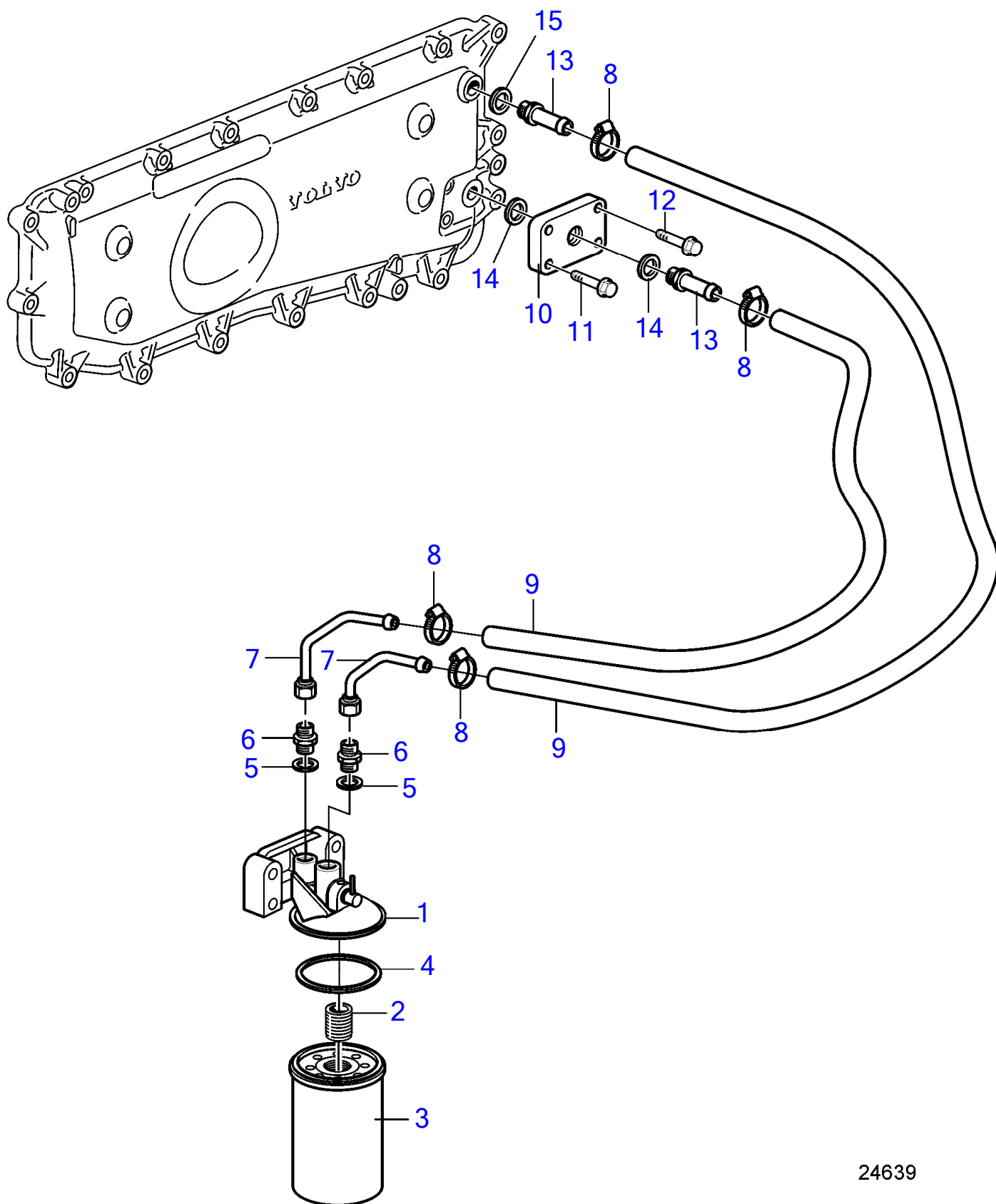
27463

Ref	Part No.	Qty	Description	Notes
1	990941	6	Flange nut	
2	130204	6	Stud	
3	3829537	1	Fan hub	
4	70326597	1	V-ribbed belt	For pulley 3828043
	3819398	1	V-ribbed belt	For pulley 3829957
	3838617	1	V-ribbed belt	For pulley 3829958
5	3828043	1	Pulley	Ratio 1:0,88
	3829957	1	Pulley	Ratio 1:0,97
	3829958	1	Pulley	Ratio 1:1,04



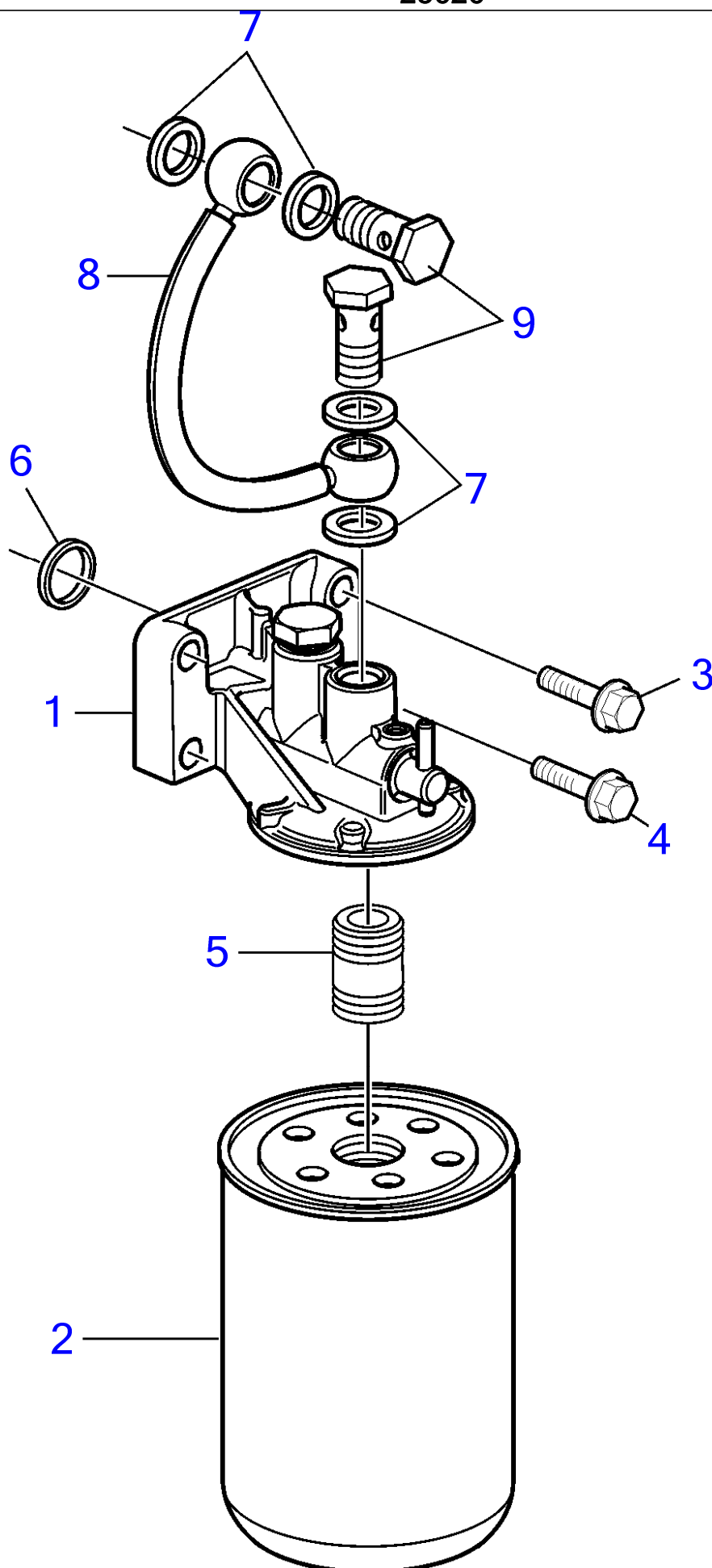
27465

Ref	Part No.	Qty	Description	Notes
1	3828043	1	Pulley	Ratio 1:1,08
	3829957	1	Pulley	Ratio 1:0,97
	3829958	1	Pulley	Ratio 1:1,0
	70326597	1	V-ribbed belt	For pulley 3828043
2	3819398	1	V-ribbed belt	For pulley 3829957
	3838617	1	V-ribbed belt	For pulley 3829958
3	130201	6	Stud	
4	21349312	1	Fan hub	
5	21305942	1	Adapter	
6	842930	6	Spacer sleeve	
7	990941	6	Flange nut	
8	21318856	6	Six point screw	
9	21968941	1	Clutch	
10	21303458	1	Bracket	
11	21349297	1	Bracket	
12	984733	2	Flange screw	
13	21315240	1	Sensor	
14	8192804	2	Flange screw	
15	980881	2	Cable tie	



24639

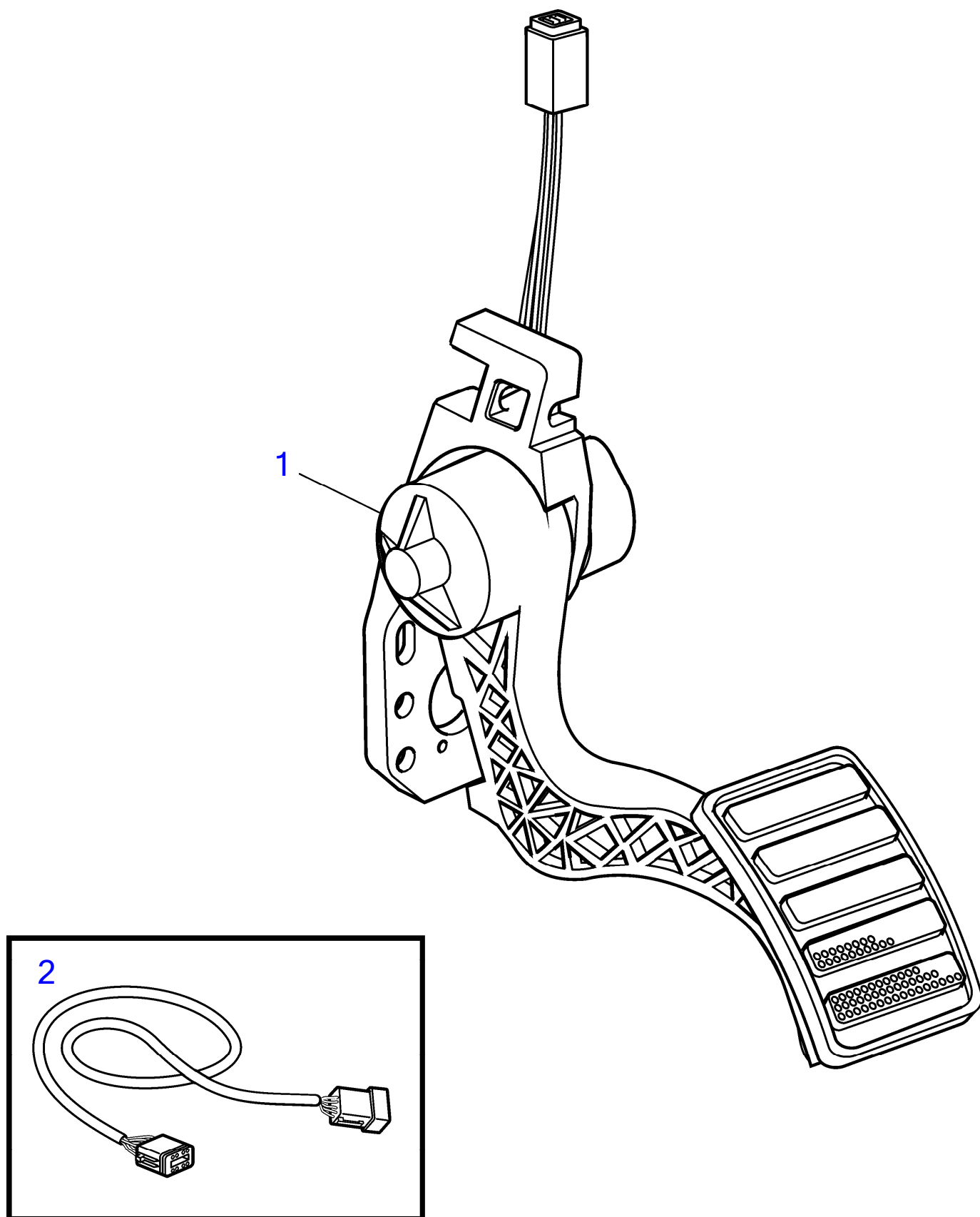
Ref	Part No.	Qty	Description
1	3838150	1	Bracket
2	1676554	1	• Nipple
3	20532237	1	Coolant filter
4		1	• Gasket
5	969011	2	Gasket
6	941754	2	Nipple
7	11033093	2	Pipe elbow
8	961664	4	Hose clamp
9	3830315	2	Hose
10	21182000	1	Adapter
11	984736	2	Flange screw
12	994386	2	Flange screw
13	20405767	2	Hose nipple
14	469846	2	Sealing ring
15	947622	1	Gasket



26 Cooling Water Filter

TAD1641VE, TAD1642VE, TAD1643VE

Ref	Part No.	Qty	Description	Notes
1	20459650	1	Bracket	Only for green cooling fluid
2	21192875	1	Coolant filter	
3	984736	3	Flange screw	
4	994386	1	Flange screw	
5	1676554	1	Nipple	
6	469846	1	Sealing ring	
7	969011	4	Gasket	
8	20729344	4	Hose	
9	25167	2	Hollow screw	

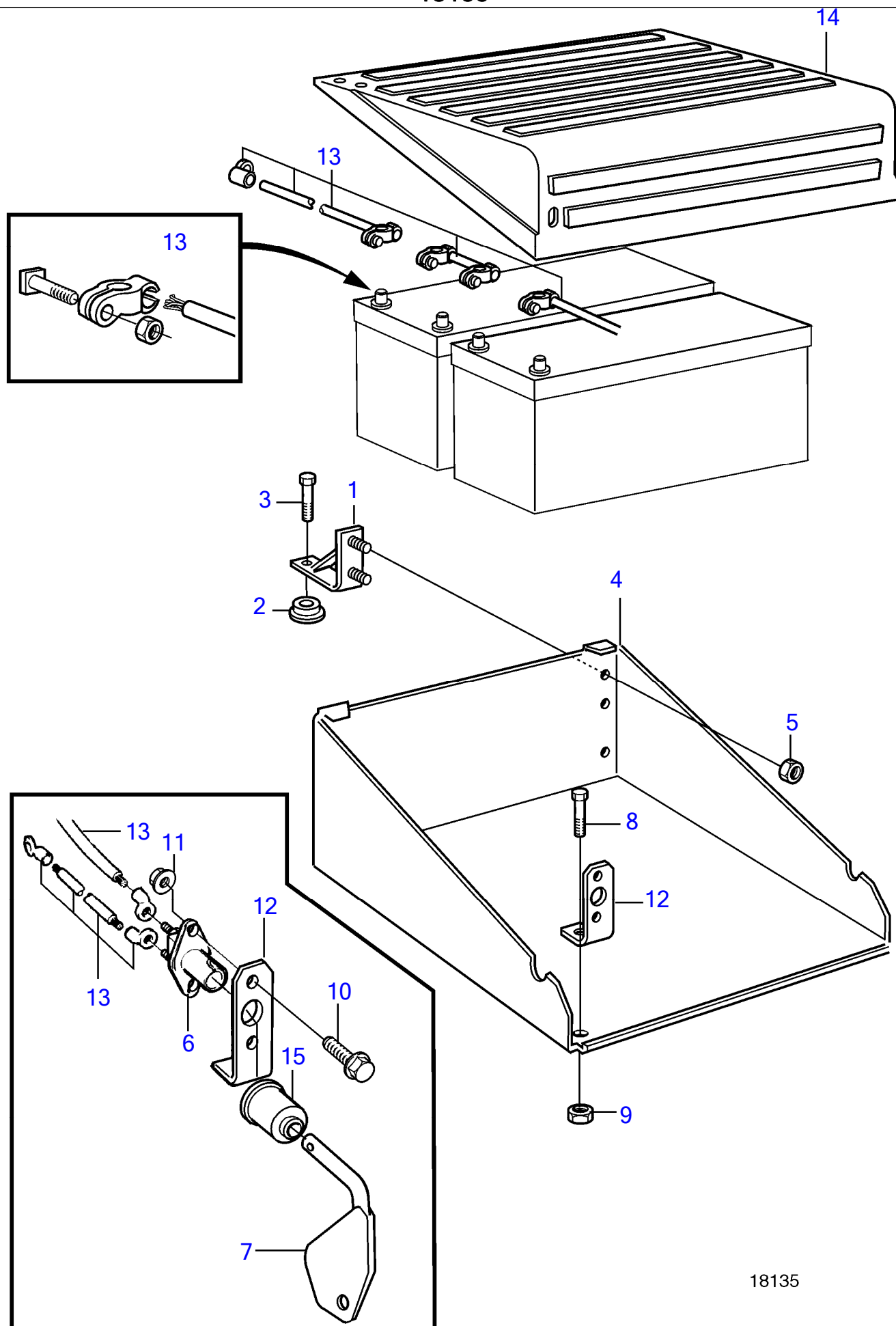


29408

27 Accelerator Pedal

TAD1641VE, TAD1642VE, TAD1643VE, TAD1660VE, TAD1661VE, TAD1662VE

Ref	Part No.	Qty	Description	Notes
1	3175130	1	Accelerator pedal	
	20893518	1	Accelerator pedal	Replaced by accelerator pedal 21116880.
	21116880	1	Accelerator pedal	Replaced by 21915486
	21915486	1	Accelerator pedal	Replaced by 82627975
	82627975	1	Accelerator pedal	
2	20729579	1	Cable kit	Use when accelerator pedal 3175130 is replaced.

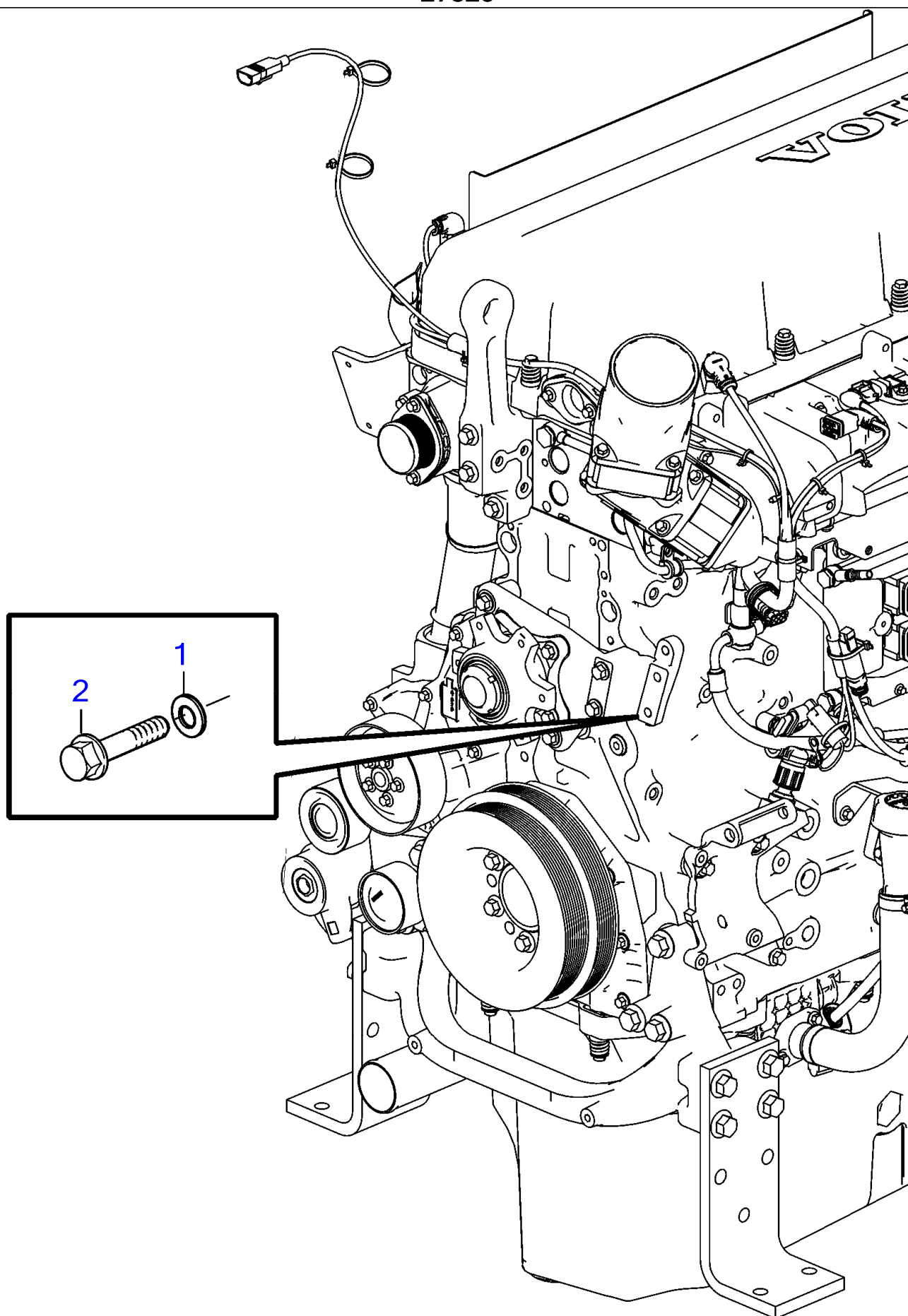


18135

30 Battery Box

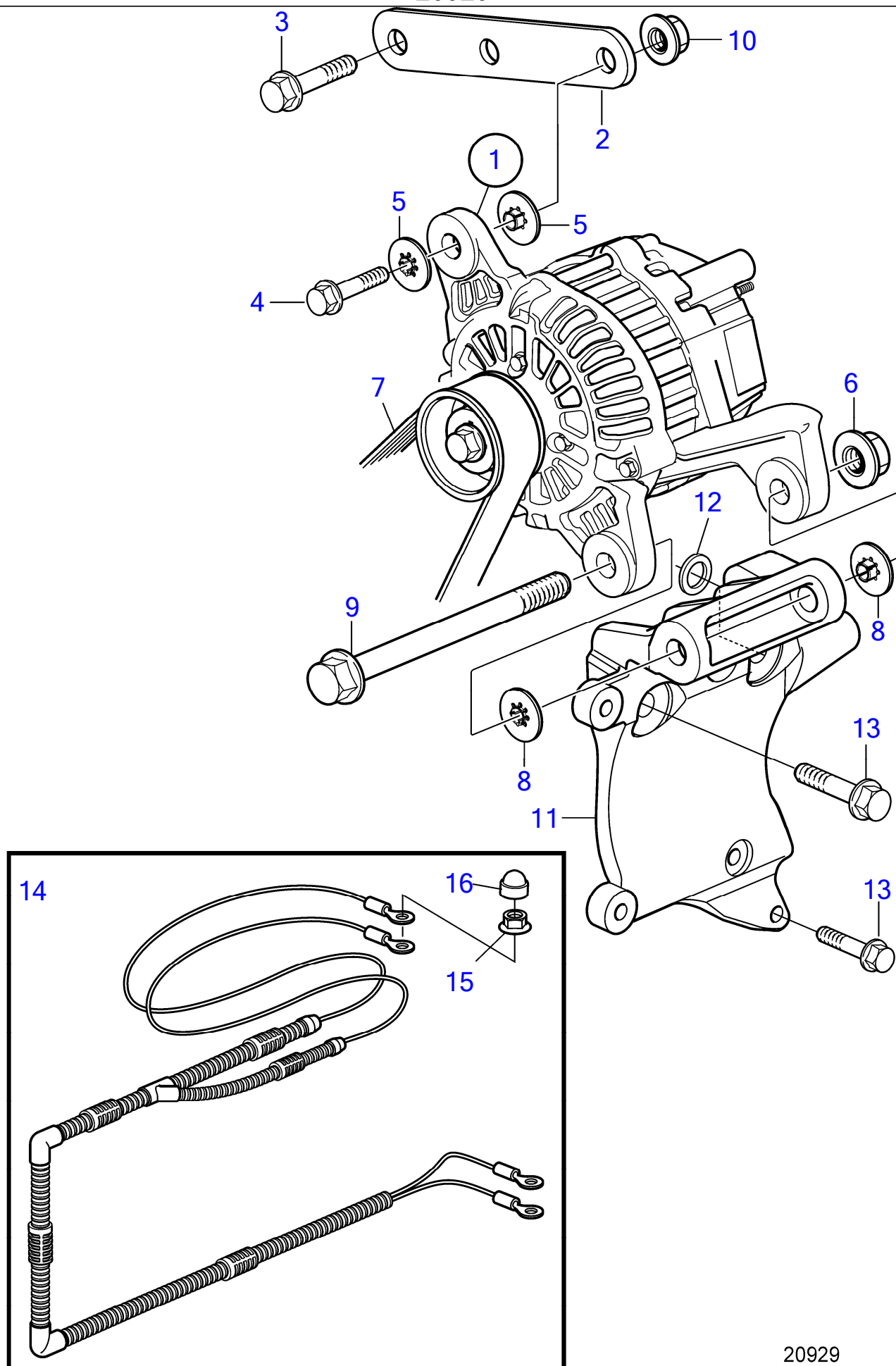
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TAD1640VE-B, TAD1641VE-B, TAD1642VE-B, TAD1660-62VE, TAD1662VE EU5

Ref	Part No.	Qty	Description	Notes
1	(846285)	2	Bracket	Obsolete part
2	846284	2	Washer	
3	969445	2	Flange screw	
4	863627	1	Battery box	
5	990942	4	Flange nut	
6	22172491	1	Main switch	Key included in 22172491 For 8151943 and 3987034.
7	8157766	1	Key	
8	984752	2	Flange screw	
9	990941	2	Flange nut	
10	984725	2	Flange screw	
11	990939	2	Flange nut	
12	(1587695)	1	Bracket	Obsolete part
13		X	electrical materials	
14	1587694	1	Cover	
15	1582293	1	Bellows	



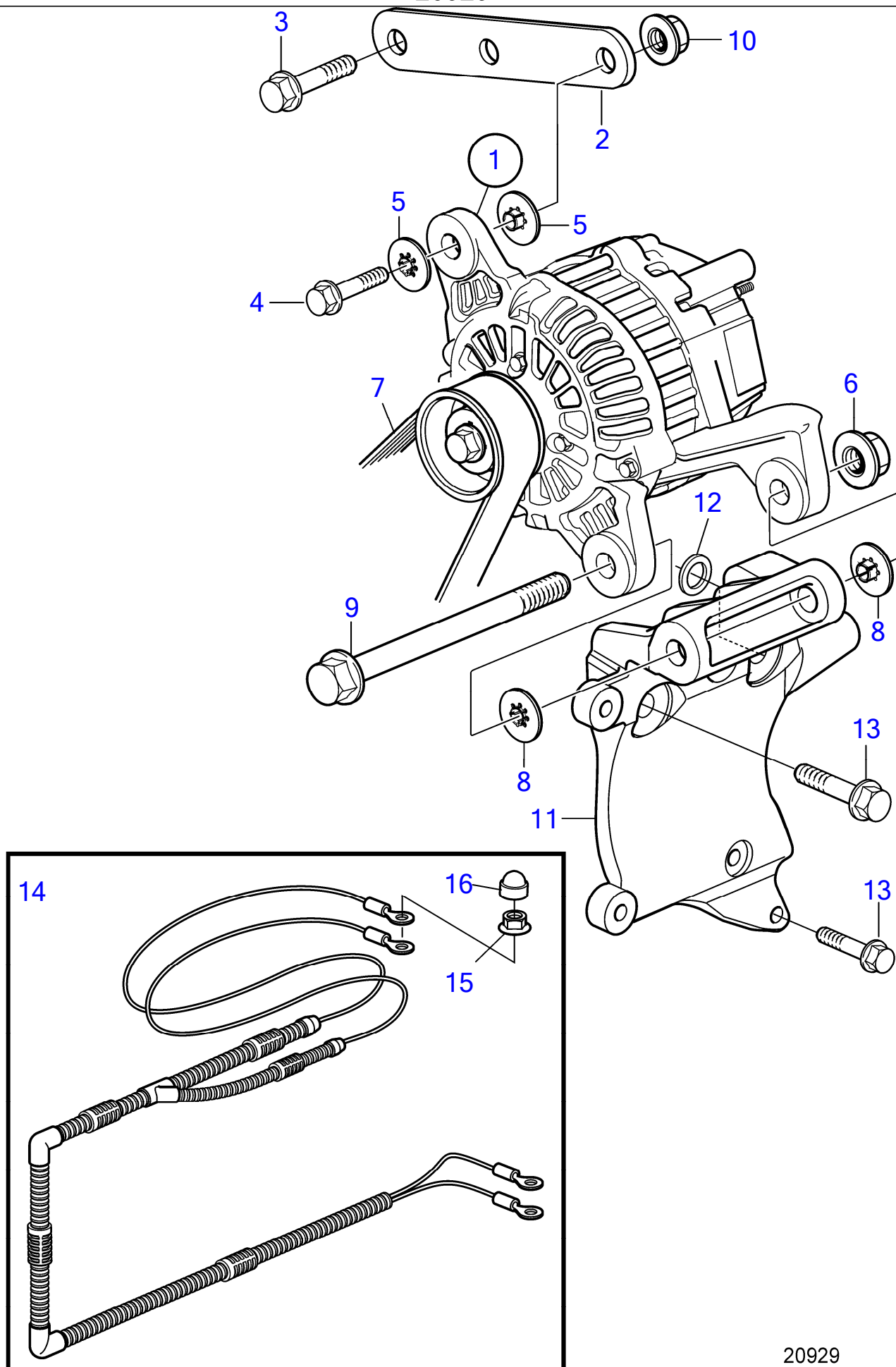
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TAD1640VE-B, TAD1641VE-B, TAD1642VE-B, TAD1660-62VE, TAD1662VE EU5

Ref	Part No.	Qty	Description
1	860699	1	Spacer sleeve
2	984753	1	Flange screw



30 Alternator, Single Mounted 28V 80 AmpTAD1641VE, TAD1642VE, TAD1643VE, TAD1660VE, TAD1661VE, TAD1662VE, TAD1640VE-B,
TAD1641VE-B, TAD1642VE-B

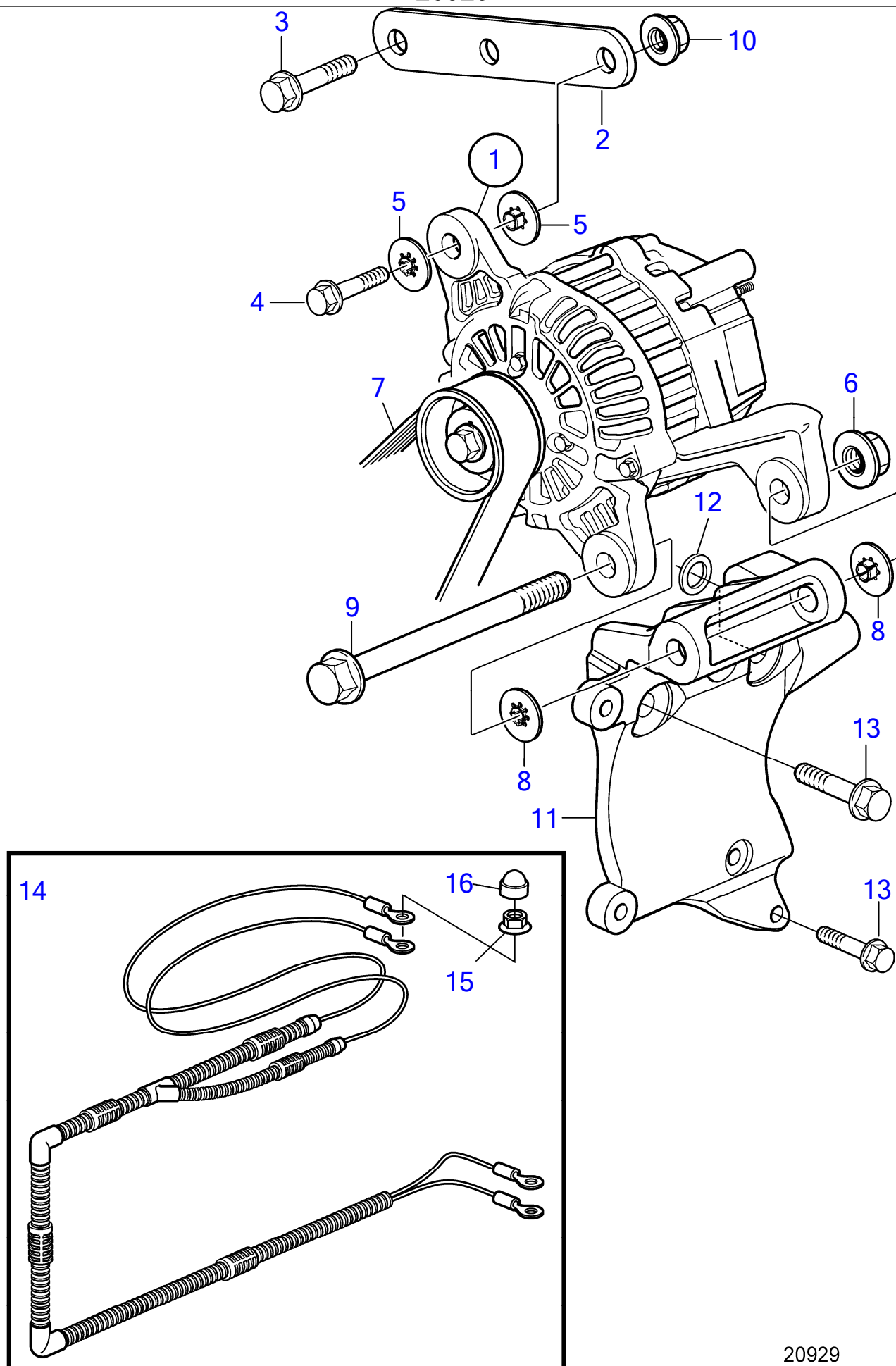
Ref	Part No.	Qty	Description	Notes
1	22117421	1	Alternator	28V 80A
			· parts not sold separately	
2	3829091	1	Bracket	
3	984738	1	Flange screw	
4	984752	1	Flange screw	
5	3589388	2	Insulating bushing	
6	990950	1	Flange lock nut	
7	20430376	1	V-ribbed belt	
8	3589369	2	Insulating bushing	
9	984826	1	Flange screw	
10	990960	1	Flange lock nut	
11	3839009	1	Bracket	Replaced by 3885361
	3885364	1	Bracket	
12	8192190	1	· Sealing ring	
13	984754	4	Flange screw	
14	881787	1	Wiring harness	Replaced by 21707914
	21707914	1	Wiring harness	
15	983715	1	Hexagon nut	
16	20576874	1	Cap plug	



30 Alternator, Single Mounted 28V 110 Amp

TAD1650VE, TAD1640VE-B, TAD1641VE-B, TAD1642VE-B

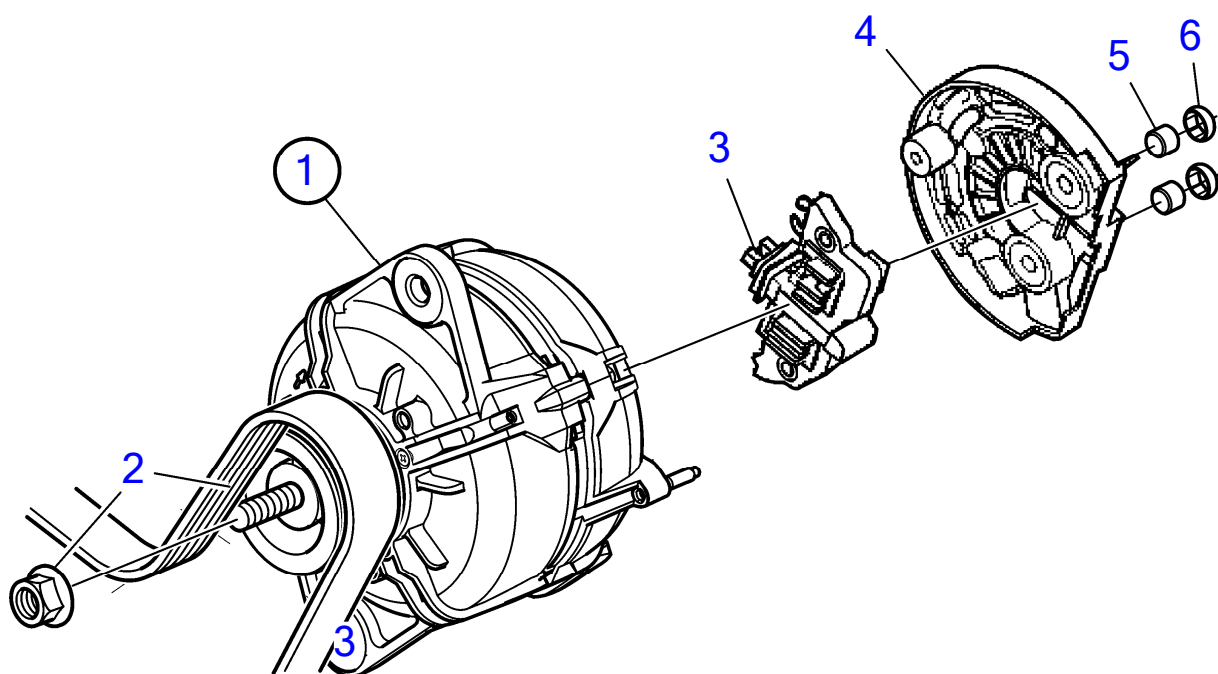
Ref	Part No.	Qty	Description	Notes
1	3803640	1	Alternator, exch • parts not sold separately	28V 110A
2	3829091	1	Bracket	
3	984738	1	Flange screw	
4	984752	1	Flange screw	
5	3589388	2	Insulating bushing	
6	990950	1	Flange lock nut	
7	20430376	1	V-ribbed belt	
8	3589369	2	Insulating bushing	
9	984826	1	Flange screw	
10	990960	1	Flange lock nut	
11	3839009	1	Bracket	
12	8192190	1	• Sealing ring	
13	984754	4	Flange screw	
14	881787	1	Wiring harness	
15	983715	1	Hexagon nut	
16	20576874	1	Cap plug	



30 Alternator, Single Mounted 28V 150 Amp

TAD1660VE, TAD1661VE, TAD1662VE, TAD1640VE-B, TAD1641VE-B, TAD1642VE-B

Ref	Part No.	Qty	Description	Notes
1	21561402	1	Alternator	28V 150A
2	3829091	1	Bracket	
3	969445	1	Flange screw	
4	984738	1	Flange screw	
5	21308514	2	Insulating bushing	
6	990960	1	Flange lock nut	
7	20430376	1	V-ribbed belt	
8	21328137	2	Insulating bushing	
9	984826	1	Flange screw	
10	990950	1	Flange lock nut	
11	3885364	1	Bracket	
12	8192190	1	• Sealing ring	
13	984754	4	Flange screw	
14	21707914	1	Wiring harness	
15	983715	1	Hexagon nut	
16	20576874	1	Cap plug	

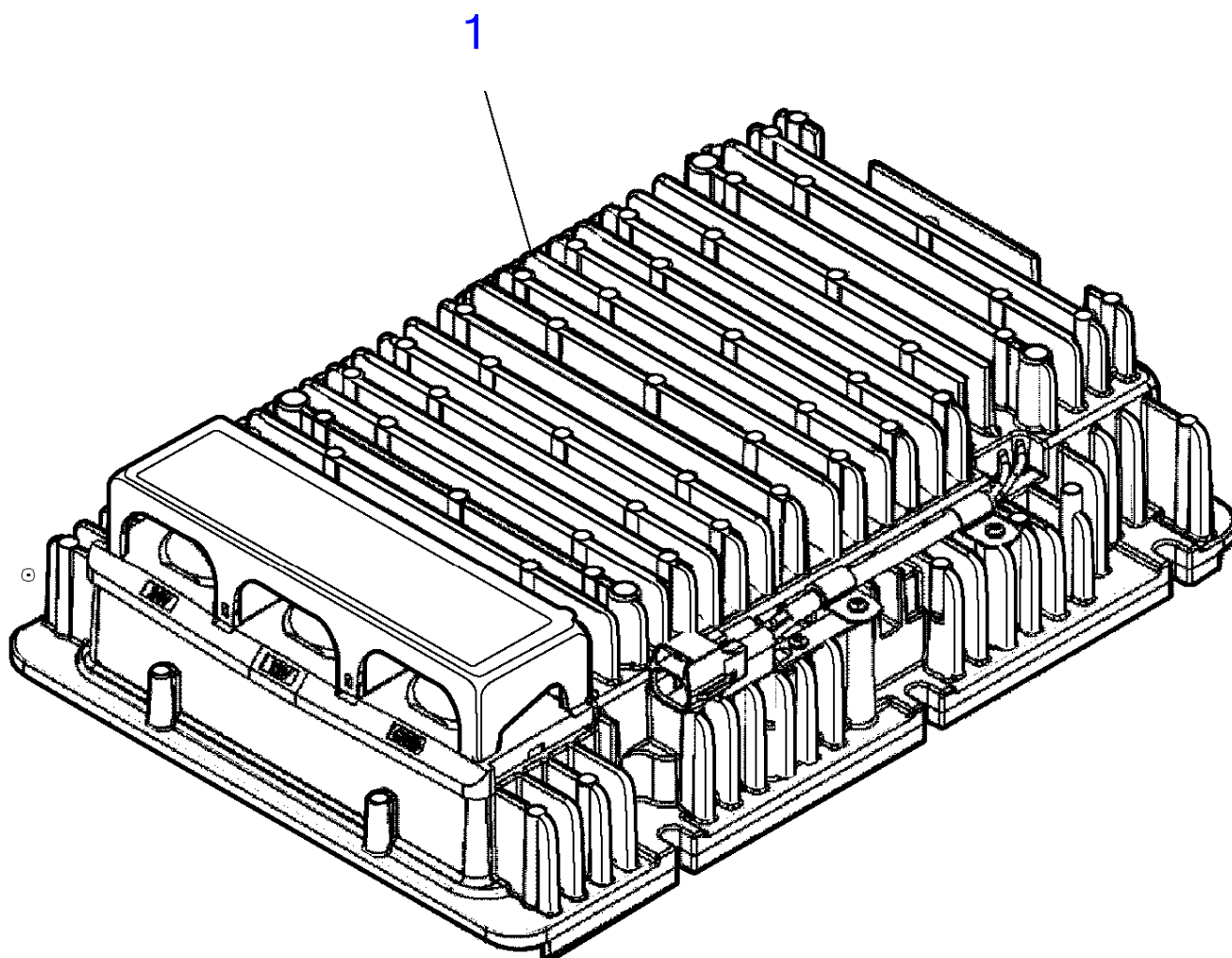


29874

30 Alternator Components

TAD1660VE, TAD1661VE, TAD1662VE, TAD1640VE-B, TAD1641VE-B, TAD1642VE-B

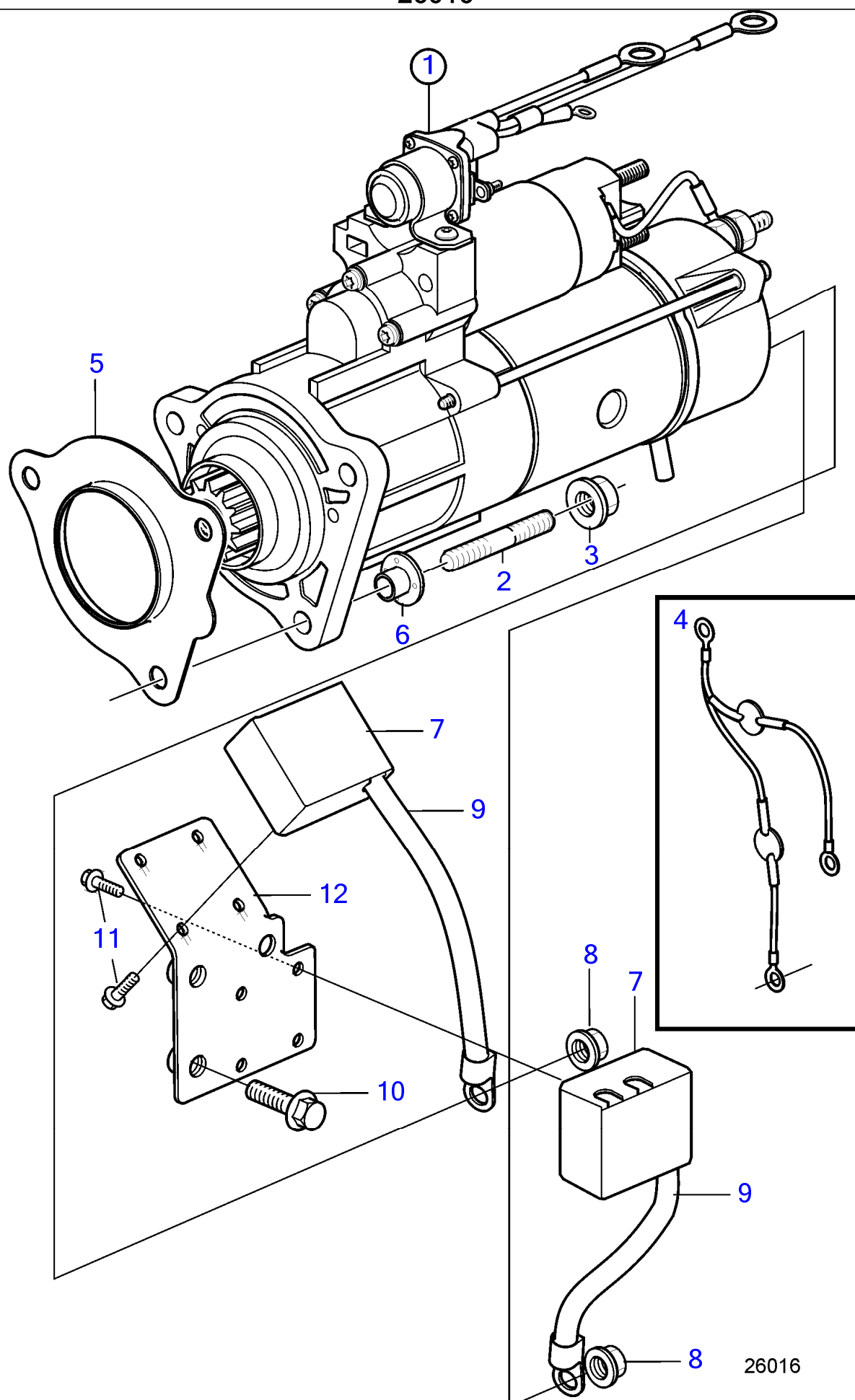
Ref	Part No.	Qty	Description	Notes
1	21561402	1	Alternator	28V 150A
	21429786	1	Alternator	28V 110A
2	21454749	1	• Pulley	
3	20523391	1	• Charge regulator	
4		1	• Cover	
5	983715	2	Hexagon nut	
6	20576874	2	Cap plug	



28777

TAD1641VE, TAD1642VE, TAD1643VE, TAD1650VE, TAD1660VE, TAD1661VE, TAD1662VE,
TAD1640VE-B, TAD1641VE-B, TAD1642VE-B, TAD1660-62VE, TAD1662VE EU5

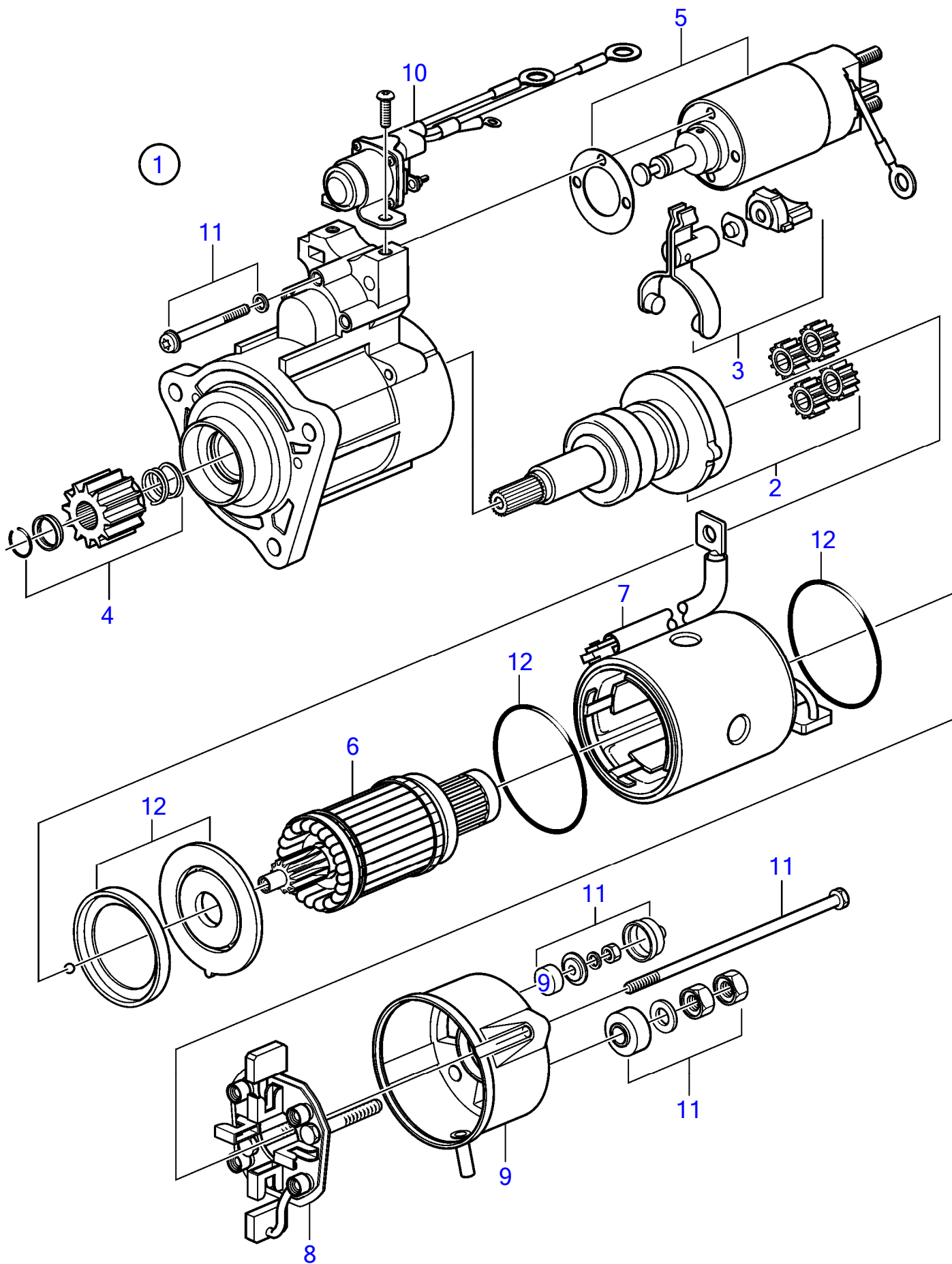
Ref	Part No.	Qty	Description
1	22725068	1	Equalizing system



30 Starter Motor

TAD1641VE, TAD1642VE, TAD1643VE, TAD1650VE, TAD1660VE, TAD1661VE, TAD1662VE,
TAD1640VE-B, TAD1641VE-B, TAD1642VE-B

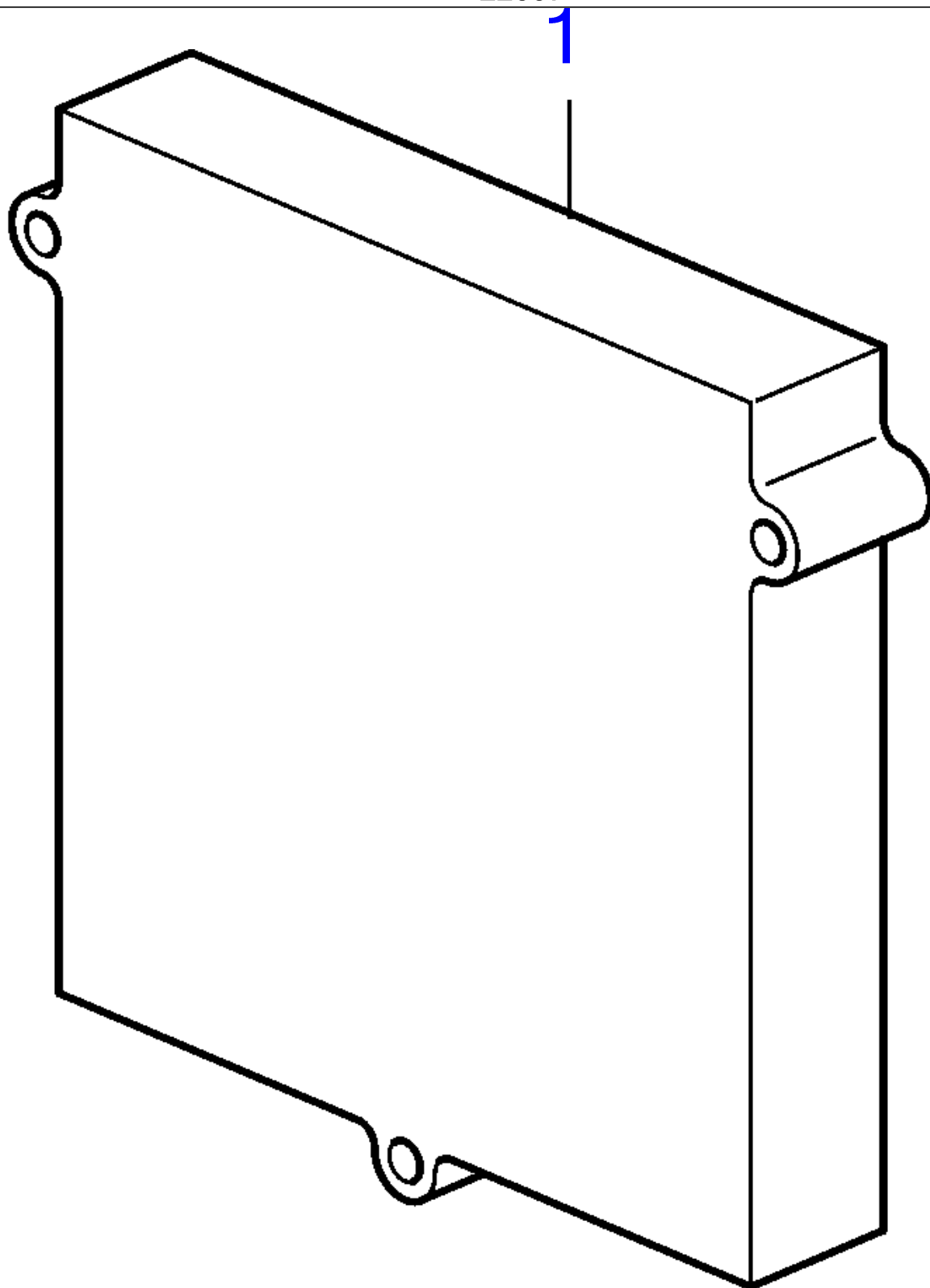
Ref	Part No.	Qty	Description	Notes
1	3803838	1	Starter motor, exch	Replaced by starter motor 3801289
	3801289	1	Starter motor, exch	Replaced by 21103722
	21103722	1	Starter motor	
	3801289	1	Starter motor, exch, exch	
2	953098	3	Stud	
3	990942	3	Flange nut	
4	21546674	1	Cable kit	
5	3888763	1	Gasket	
6	21308514	3	Insulating bushing	
7	3885093	2	Junction box	
8	983717	2	Hexagon nut	
9	21100733	2	Cable kit	
10	968435	3	Flange screw	
11	984733	8	Flange screw	
12		1	Bracket	



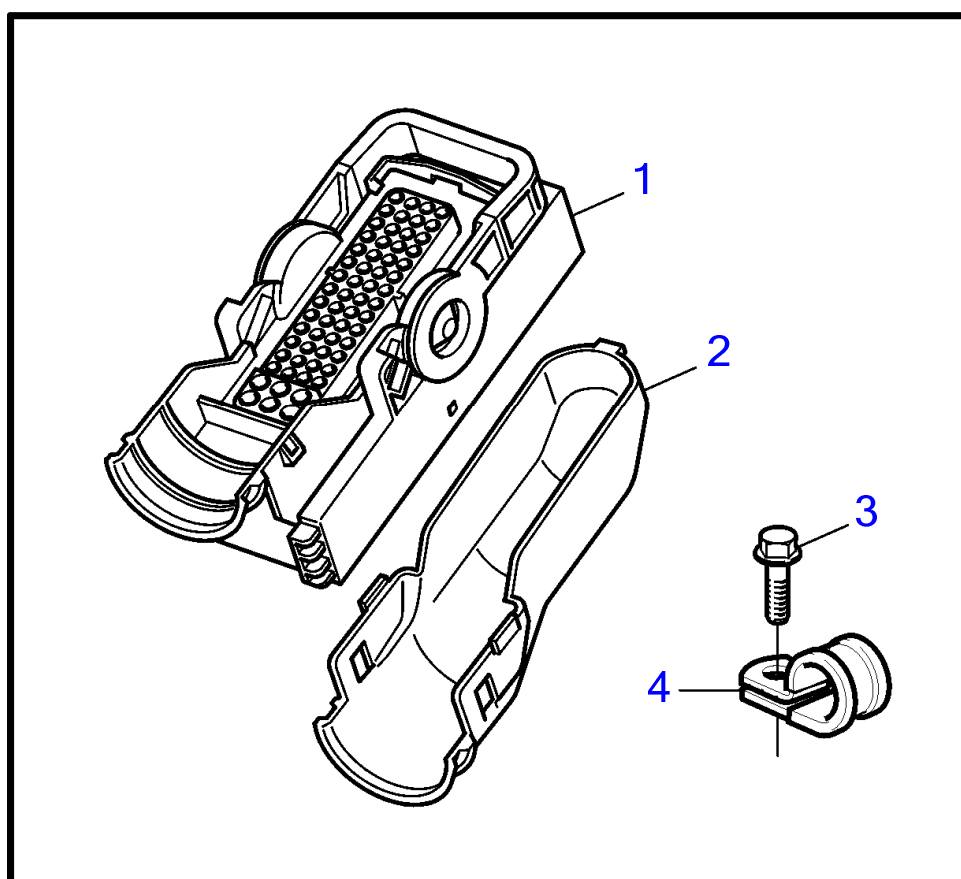
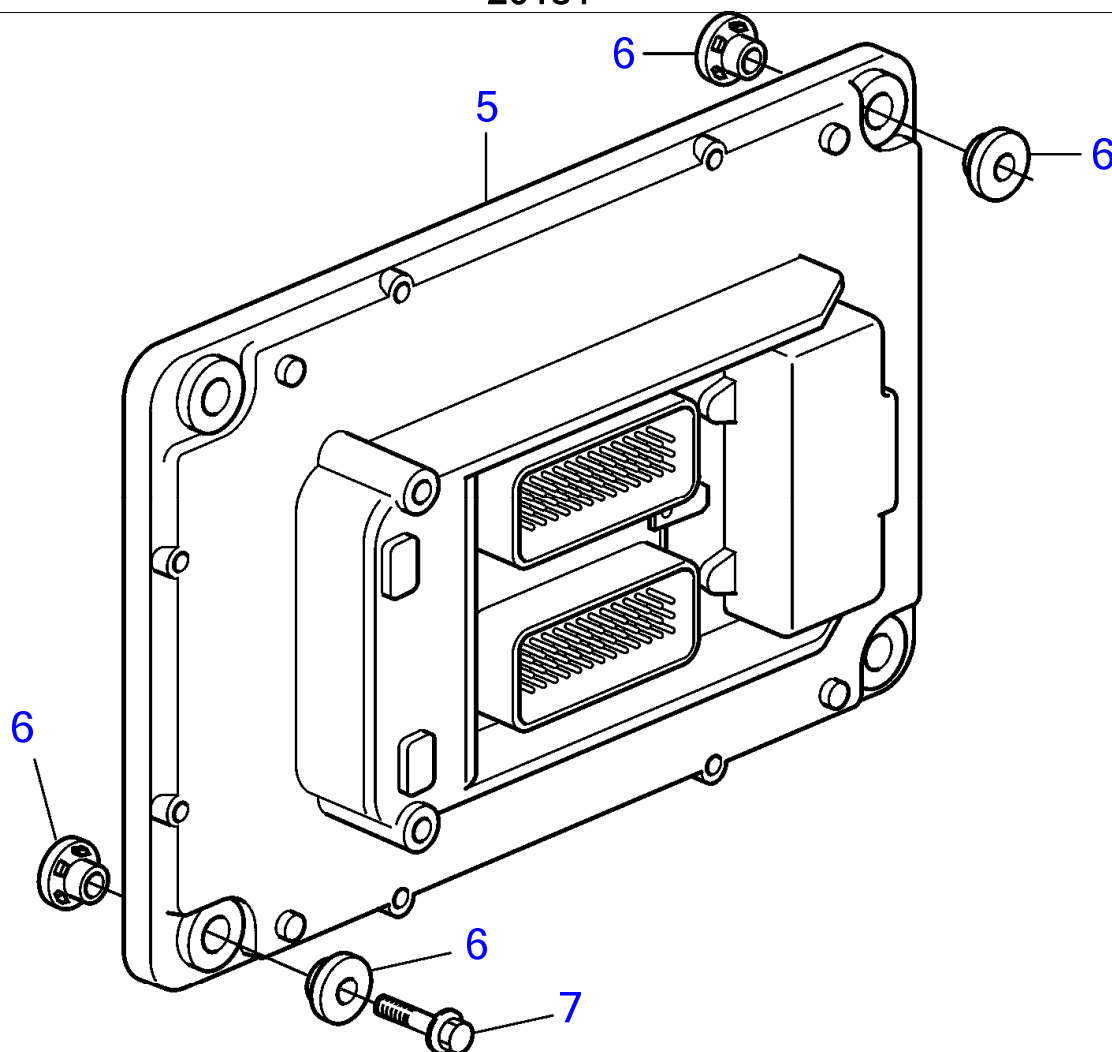
30 Starter Motor, Components

TAD1641VE, TAD1642VE, TAD1643VE

Ref	Part No.	Qty	Description	Notes
1	3803838	1	Starter motor, exch	Replaced by starter motor 3801289
	3801289	1	Starter motor, exch	Replaced by 21103722
	21103722	1	Starter motor	
	3801289	1	Starter motor, exch, exch	
2		1	• Shaft	
3		1	• Lever	
4	874738	1	• Starter pinion	
5	874745	1	• Solenoid	
6		1	• Rotor	
7		1	• Stator	
8	874741	1	• Carbon brush retaine	
9		1	• Bearing shield	
10	874743	1	• Starter relay	
11	874747	1	• Screw kit	
12	874746	1	• Gasket kit	



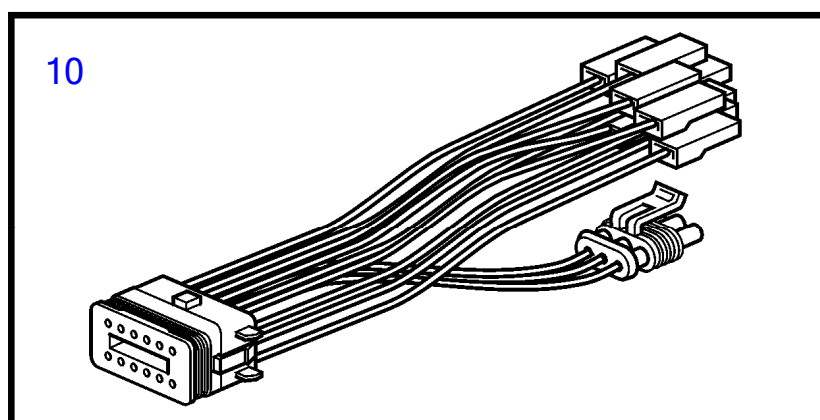
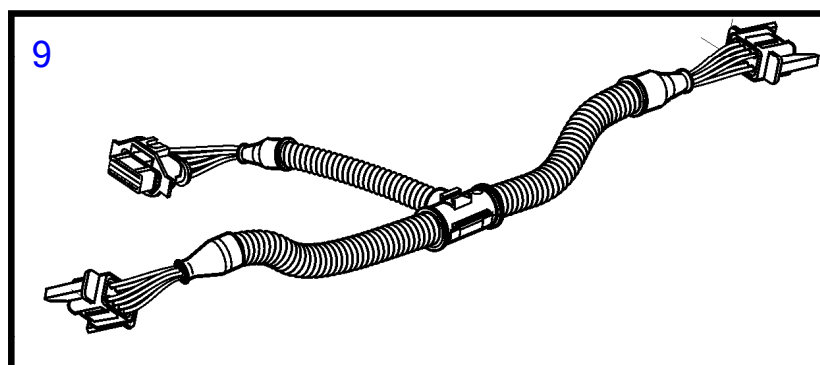
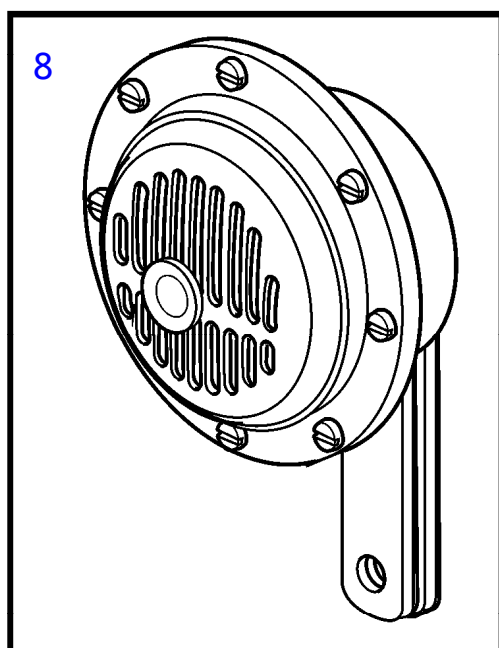
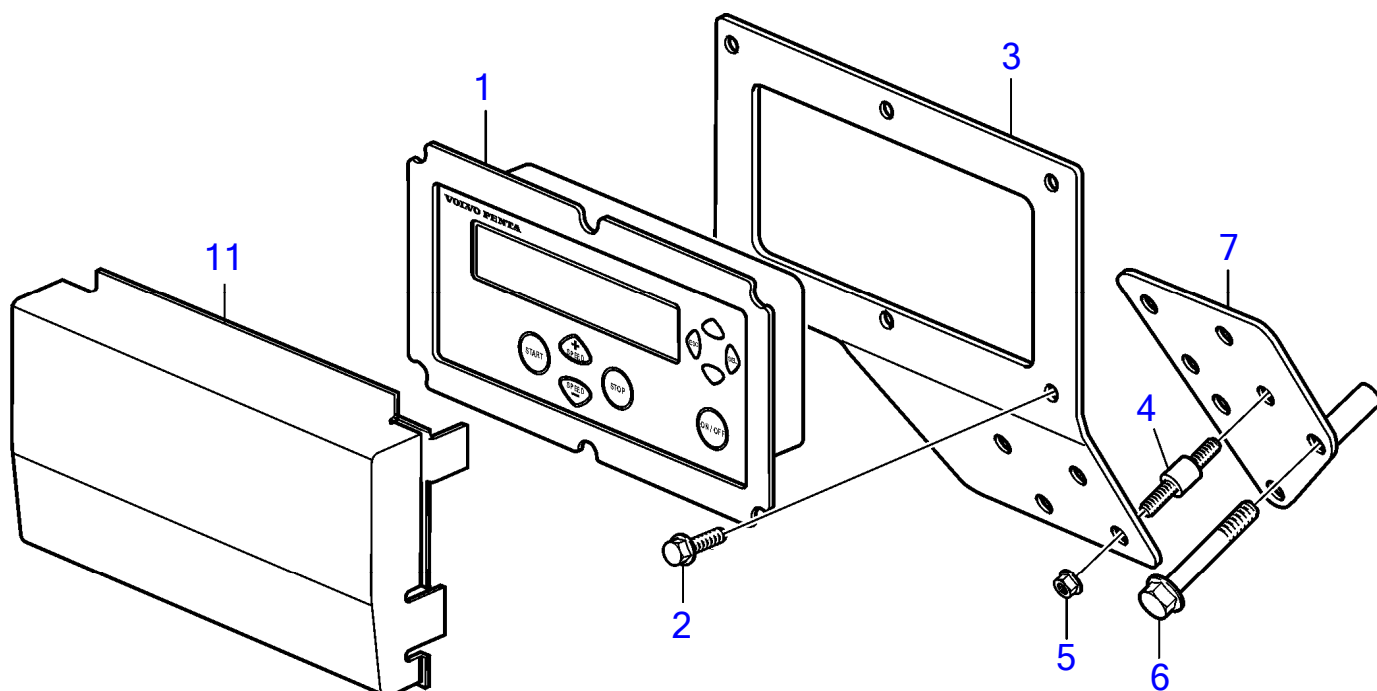
Ref	Part No.	Qty	Description	Notes
1	874239	1	Control unit, not programmed	Instrument panel / CIU, Software ordered separately or downloaded with Vodia.
	3587268	1	Software	Warehouse programming. This p/n can not be ordered, but will be used for invoicing.
	3587269	1	Software	Vodia-programming. This p/n can not be ordered, but will be used for invoicing.



30 Control Unit and Connector

TAD1641VE, TAD1642VE, TAD1643VE

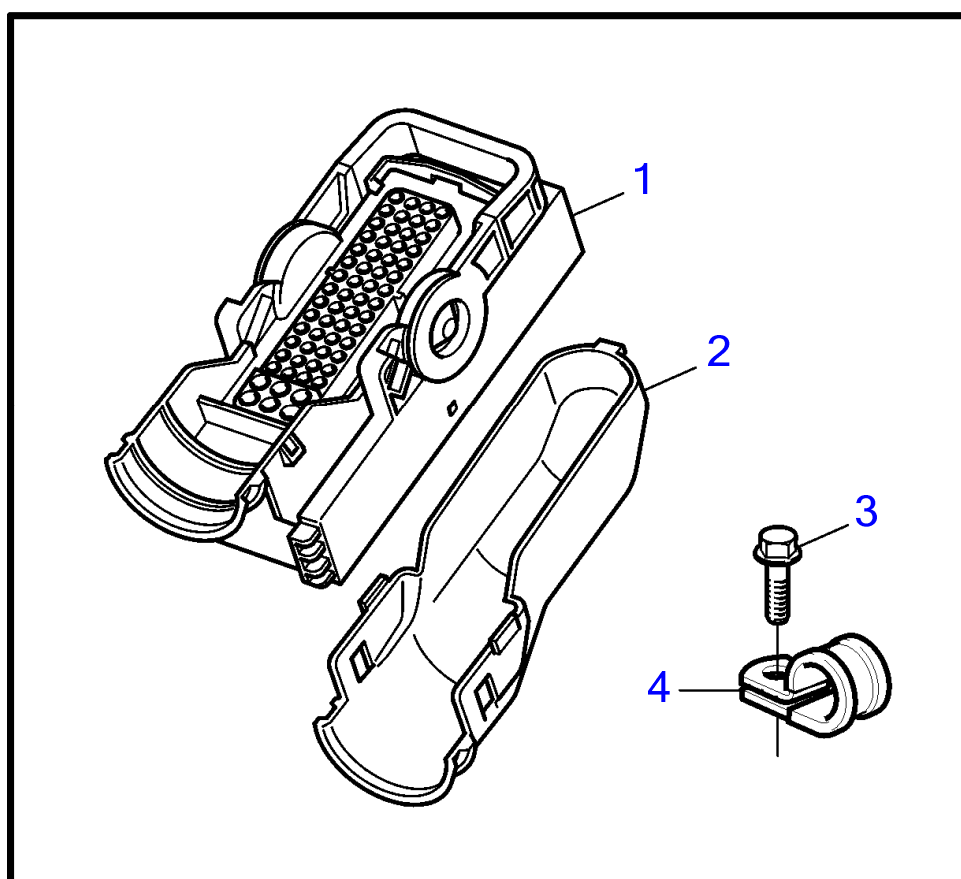
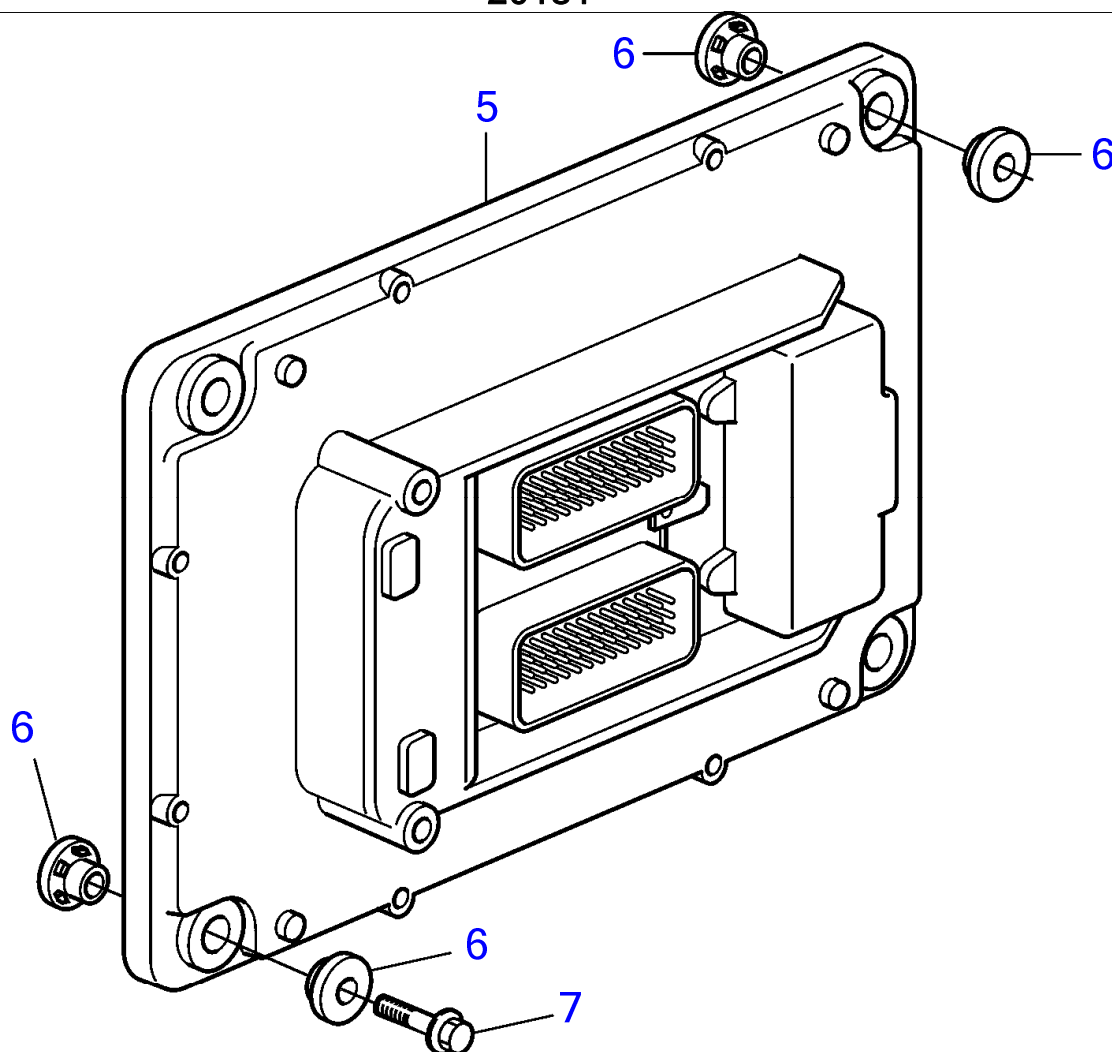
Ref	Part No.	Qty	Description	Notes
1	20429842	1	Housing	Black
	20429843	1	Housing	Gray
2	20429844	1	Adapter	
3	949997	2	Clamp	
4	984733	2	Flange screw	
5	21695319	1	Control unit, not programmed	Warehouse programming. This p/n can not be ordered, but will be used for invoicing. Vodia-programming. This p/n can not be ordered, but will be used for invoicing.
	3586269	1	Software	
	3586268	1	Software	
6	3095161	4	Rubber cushion	
7	984740	4	Flange screw	



30 Control Panel, DCU

TAD1641VE, TAD1642VE, TAD1643VE

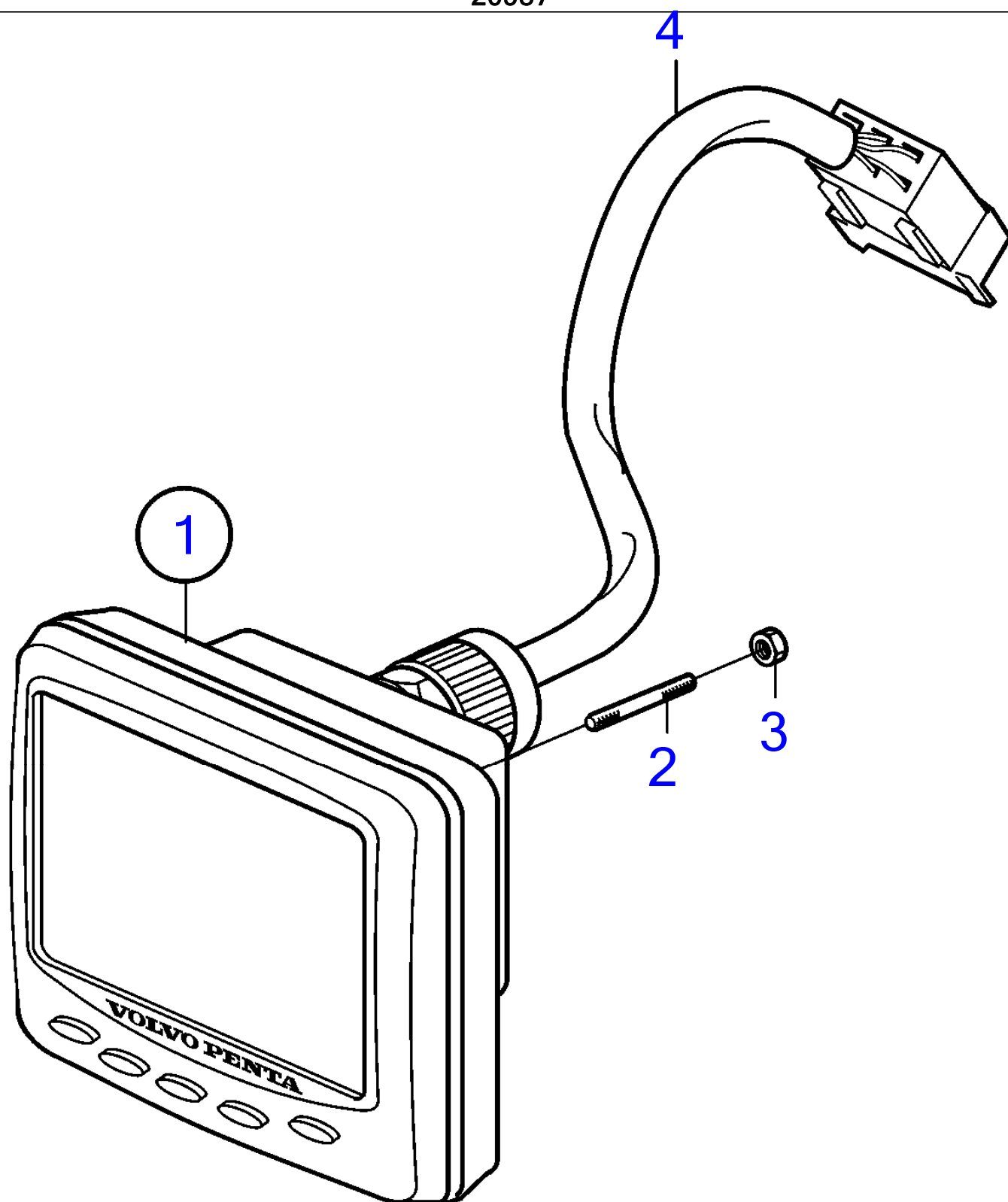
Ref	Part No.	Qty	Description	Notes
1	881776	1	Control unit, not programmed	Software ordered separately or downloaded with Vodia., Replaced by control unit
	12330500	1	Control unit, not programmed	
	3587268	1	Software	Warehouse programming. This p/n can not be ordered, but will be used for invoicing. Vodia-programming. This p/n can not be ordered, but will be used for invoicing. (965200)
	3587269	1	Software	
2	969407	6	Six point socket scr	
3	3829181	1	Bracket	
4	3574797	4	Vibration damper	
5	990939	8	Flange nut	
6	975127	3	Flange screw	
7	3836697	1	Bracket	
8		1	Horn	
9	23304762	1	Wiring harness	
10	3807270	1	Wiring harness	
11	3588333	1	Protecting casing	



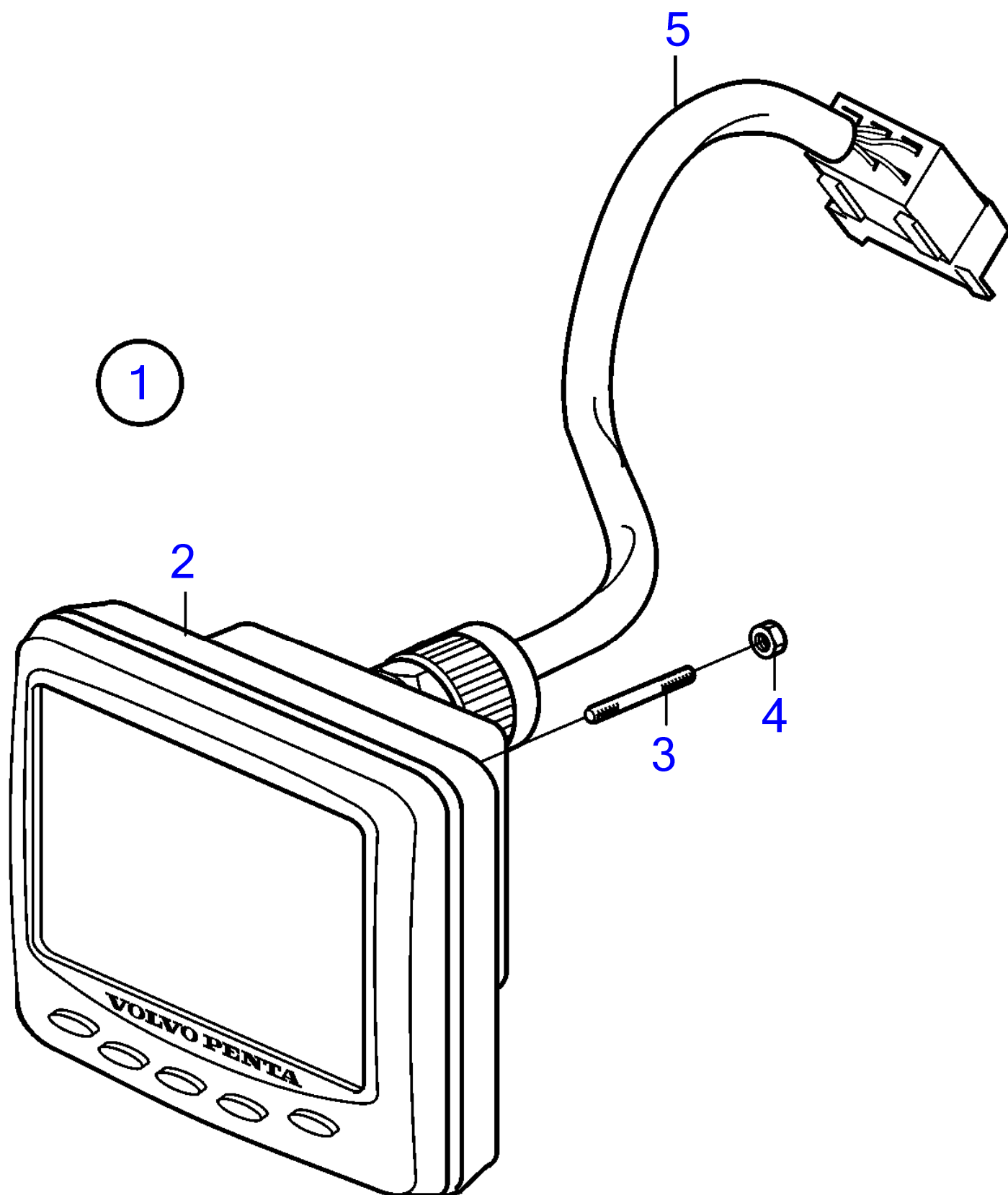
30 Control Unit and Connector

TAD1650VE, TAD1660VE, TAD1661VE, TAD1662VE, TAD1640VE-B, TAD1641VE-B, TAD1642VE-B

Ref	Part No.	Qty	Description	Notes
1	20429842	1	Housing	Black
	20429843	1	Housing	Gray
2	20429844	1	Adapter	
3	949997	2	Clamp	
4	984733	2	Flange screw	
5	21631327	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.
6	3095161	4	Rubber cushion	
7	984740	4	Flange screw	

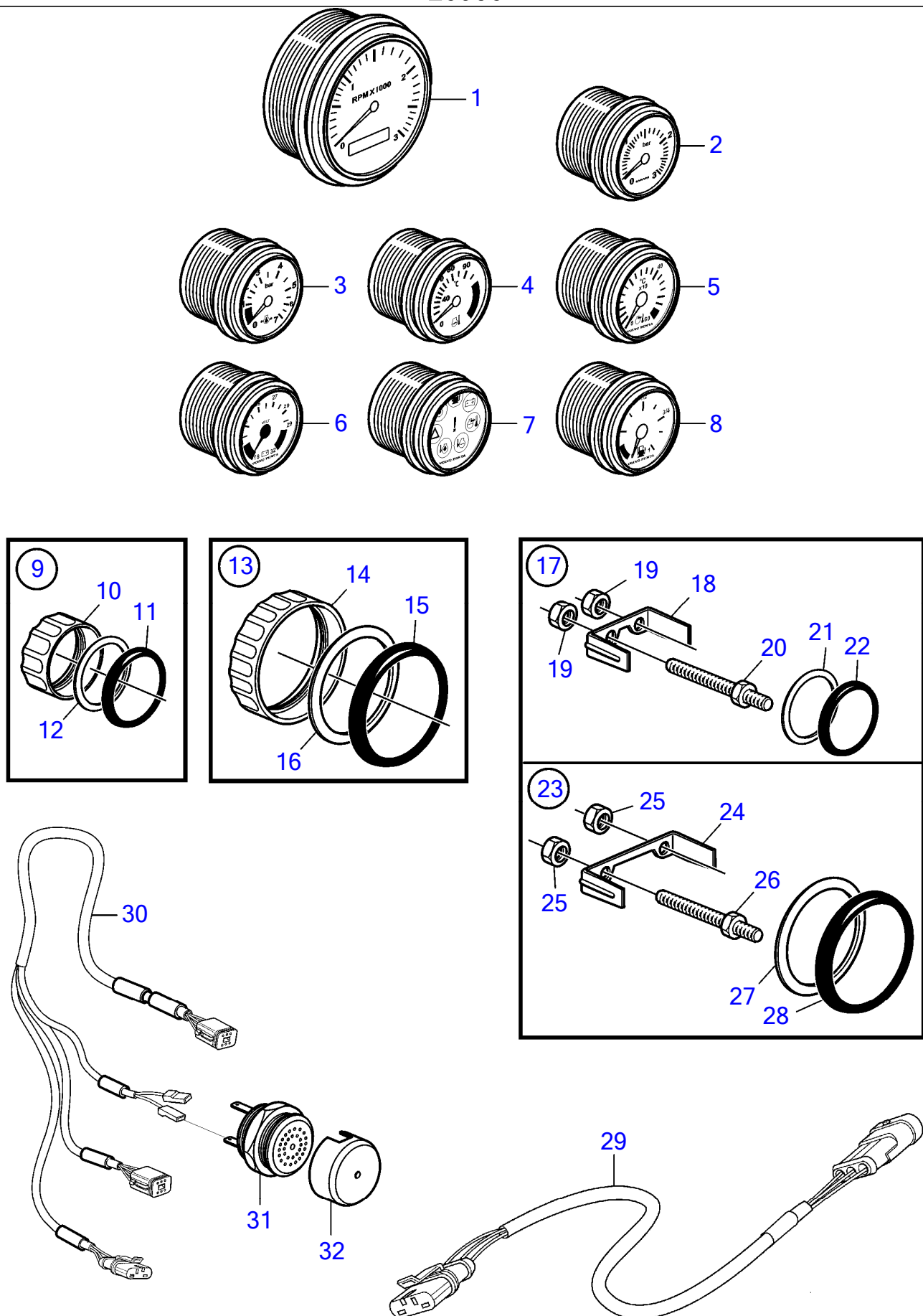


Ref	Part No.	Qty	Description	Notes
1	3807892	1	Display	Replaced by display 3840167
	3840167	1	Display	
2	830928	4	• Stud	
3	830930	4	• Wing nut	
4	3807982	1	• Wiring harness	

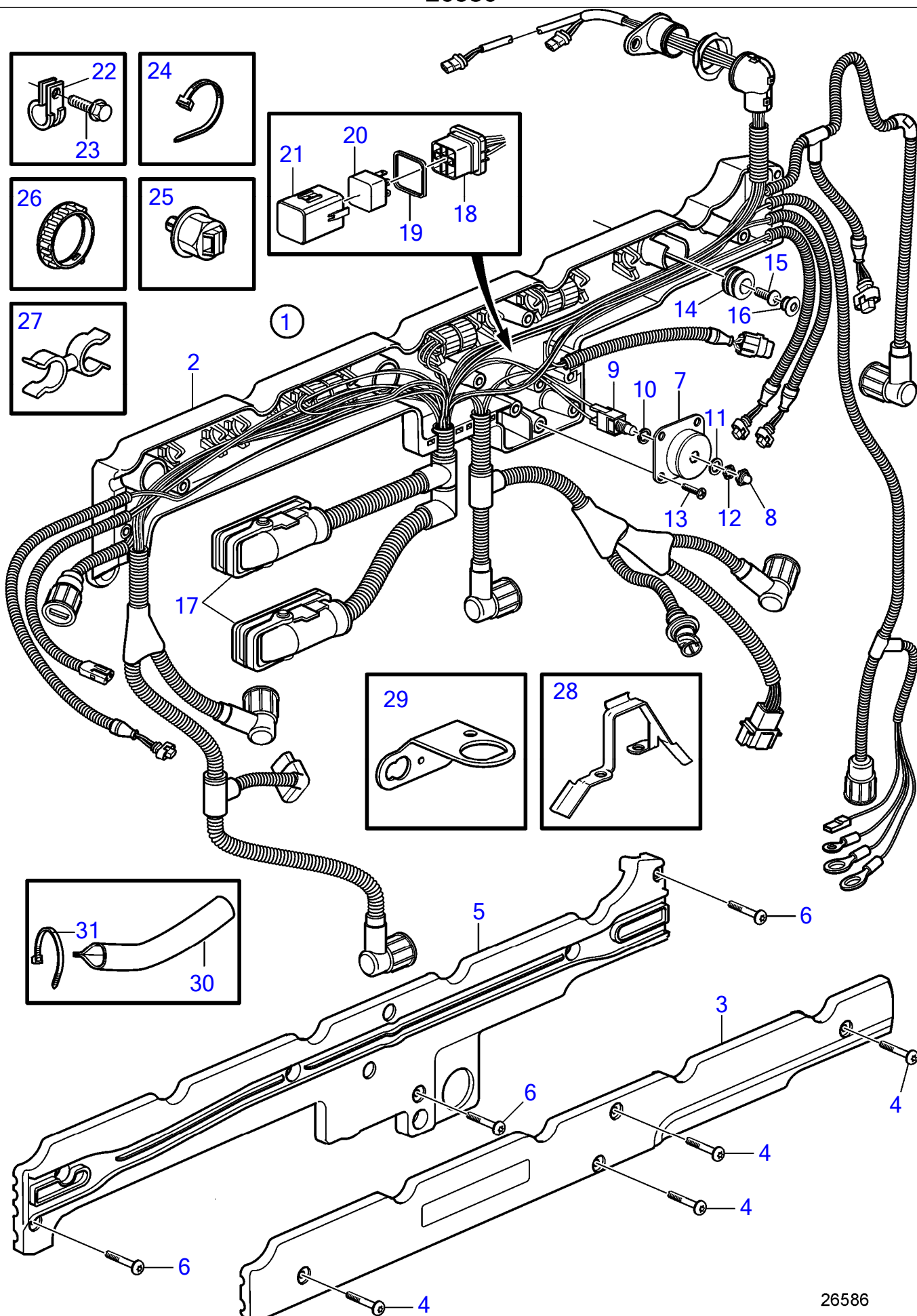


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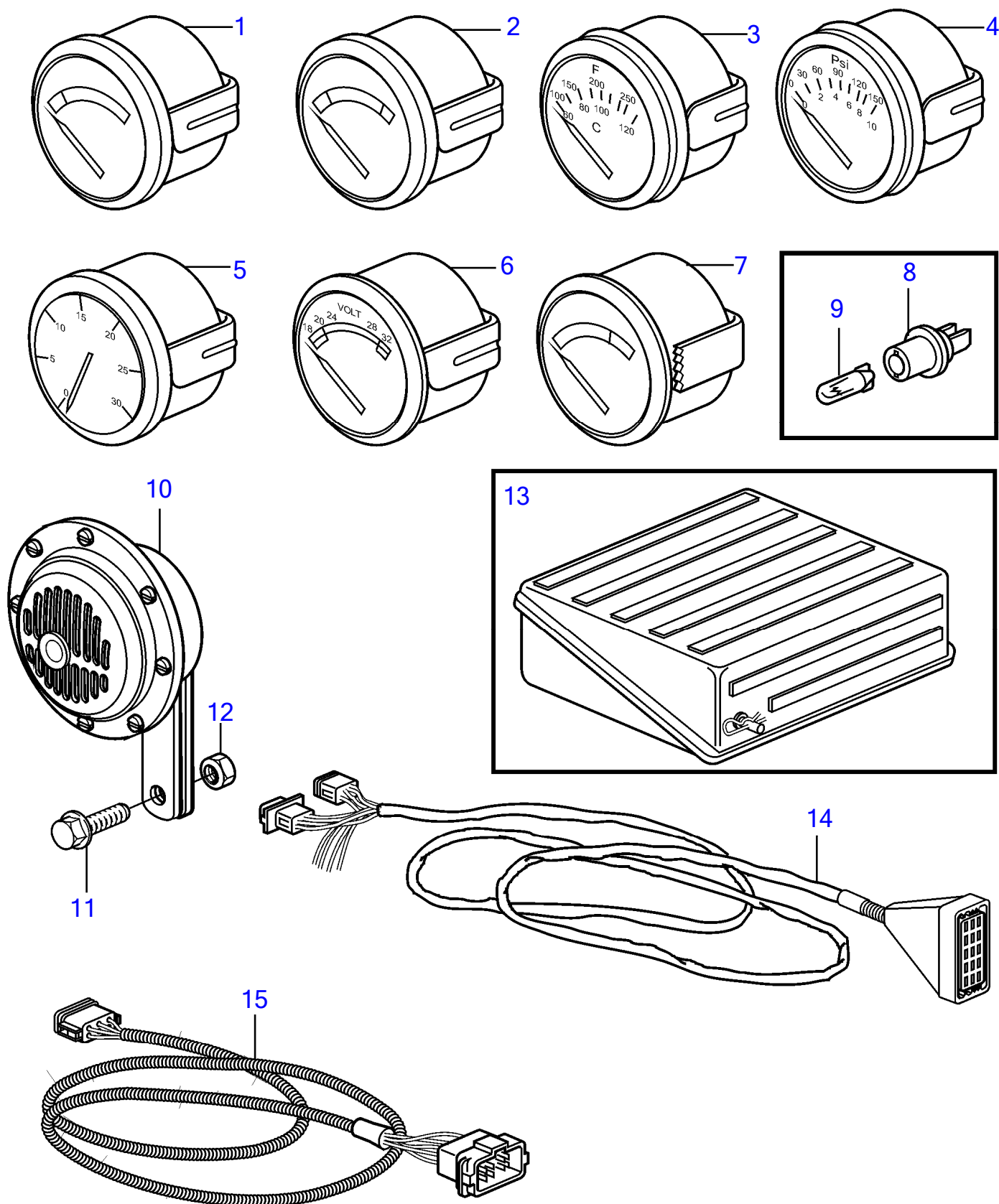
Ref	Part No.	Qty	Description
1	21573584	1	Display
2	21573583	1	• Display
3	830928	4	• Stud
4	830930	4	• Wing nut
5	3807982	1	• Wiring harness



Ref	Part No.	Qty	Description	Notes
1	874903	1	Tachometer	Black D=85mm
	874928	1	Tachometer	White D=85mm
2	874910	1	Turbo pressure gauge	Black 0-3 bar
	874920	1	Turbo pressure gauge	Black 0-45 psi
	(874911)	1	Pressure gauge, freshwater	Obsolete part, Black 0-3 bar
	874912	1	Pressure gauge, sea water	Black 0-3 bar
3	874908	1	Oil pressure gauge, engine	Black 0-7 bar
	874919	1	Oil pressure gauge, engine	Black 0-100 psi
	874909	1	Oil pressure gauge, reverse gear	Black 0-25 bar
	874951	1	Oil pressure gauge, reverse gear	Black 0-350 psi
4	874904	1	Thermometer, coolant water	Black 0-120°C
	874918	1	Thermometer, coolant water	Black 40-250 °F
	874905	1	Thermometer, oil-engine	Black 0-150°C
	881857	1	Thermometer, oil-engine	Black 40-300 °F
	874906	1	Thermometer, reverse gear	Black 0-120°C
5	874907	1	Thermometer, exhaust temp	Black 0-600°C
6	874913	1	Voltmeter	Black
7	874915	1	Instrument, alarm	Black
8	874914	1	Fuel gauge	Black
9	874709	1	Mounting kit	Black D=52mm
10	874450	1	• Attaching ring	
11	874448	1	• Ring	
12	874707	1	• Gasket	
13	874708	1	Mounting kit	Black D=85mm
14	874449	1	• Attaching ring	
15	874447	1	• Ring	
16	(874706)	1	• Gasket	Obsolete part
17	881611	1	Brace kit	Black D=52mm
18	881607	1	• Brace	
19	881610	2	• Nut	
20	881609	2	• Stud	
21	874707	1	• Gasket	
22	874448	1	• Ring	
23	881612	1	Brace kit	Black D=85mm
24	881608	1	• Brace	
25	881610	2	• Nut	
26	881609	2	• Stud	
27	(874706)	1	• Gasket	Obsolete part
28	874447	1	• Ring	
29	874759	1	Extension cable, instrument	L=1000mm
30	3808852	1	Cable kit, instrument	
31	828587	1	Buzzer	
32	858795	1	Protecting casing	

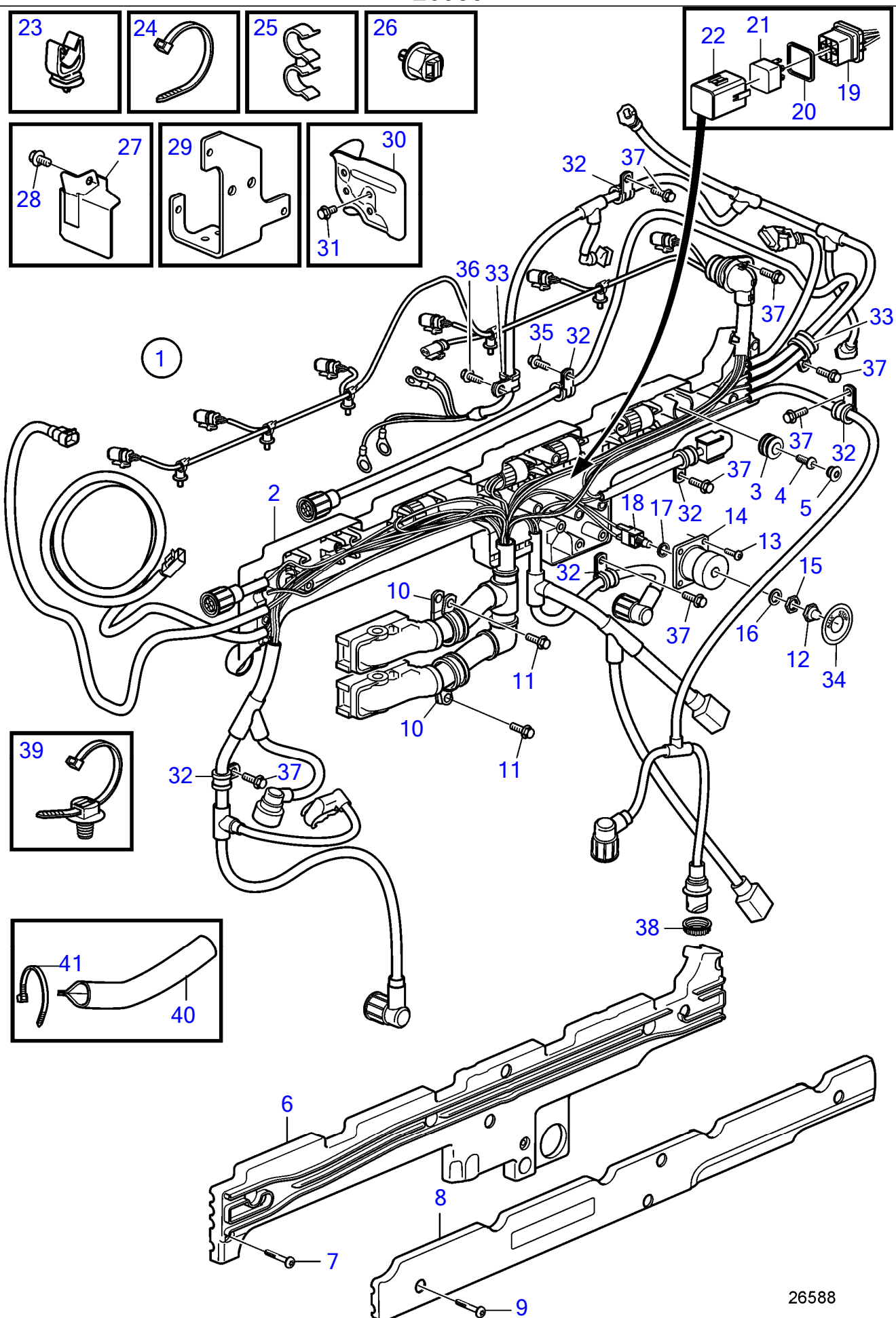


Ref	Part No.	Qty	Description	Notes
1	21345091	1	Wiring harness	(3843030)
2	(8131655)	1	• Box	Obsolete part, SN-2016008533,If needed the old parts! all three new parts have to
	20782686	1	• Box	SN2016008534-
3	8131657	1	• Cover	SN-2016008533,If needed the old parts! all three new parts have to been bought
	20785240	1	• Cover	SN2016008534-
4	3985652	4	• • Six point socket scr	
5	8131656	1	• Box	SN-2016008533,If needed the old parts! all three new parts have to been bought
	20784842	1	• Intermediate section	SN2016008534-
6	3985652	3	• Six point socket scr	
7	3838949	1	• Cap	
8	828586	1	• Nut	
9	873959	1	• Breaker	
10		1	• Nut	
11		1	• Washer	
12		1	• Nut	
13	969408	4	• Six point socket scr	
14	1079687	5	• Rubber cushion	
15	1079677	5	• Plug	
16	969598	5	• Six point socket scr	
17		2	• Switch	
18	3587172	1	• Relay socket	
19		1	• • Gasket	
20	3171420	1	• Relay	
21	3587173	1	• Relay box	
22	949997	1	Clamp	D=31,8mm
	949746	2	Clamp	D=12,7mm
23	984733	X	Flange screw	M8x16mm
24	948211	X	Cable tie	D=67mm
	983472	X	Cable tie	D=35mm
25	8131393	X	Retainer	
26	3963413	1	Ring	
27	3121512	2	Retainer	
28	(20563691)	1	Bracket	Obsolete part
29	3988328	1	Bracket	
30	20711293	1	Tube	
31	862832	1	Cable tie	



Ref	Part No.	Qty	Description	Notes
1	849849	1	Oil pressure gauge	
2	849848	1	Thermometer	
3	873196	1	Thermometer	
4	873198	1	Oil pressure gauge	
5	873998	1	Tachometer kit	
6	862096	1	Voltmeter	
7	863408	1	Thermometer, oil	
8	808175	1	Bulb socket	For 849849, 849848, 862096, 863408.
	863945	1	Bulb socket	For 873196, 873198, 873998.
9	182059	1	Bulb	For 849849, 849848.
	863947	1	Bulb	Included in 873196, 873198, 873998, 872479.
	828818	1	Bulb	For 862096, 863408.
10	874050	1	Horn	
11	984733	1	Flange screw	
12	990940	1	Flange nut	
13		1	Battery box	
14	3808418	1	Wiring harness	Cable kit CIU.
15	874414	1	Extension cable	Connection cable EDC, CIU., L=3.0m
	874119	1	Extension cable	Connection cable EDC, CIU., L=5.0m
	874386	1	Extension cable	Connection cable EDC, CIU., L=7.0m
	874387	1	Extension cable	Connection cable EDC, CIU., L=9.0m
	874388	1	Extension cable	Connection cable EDC, CIU., L=11.0m

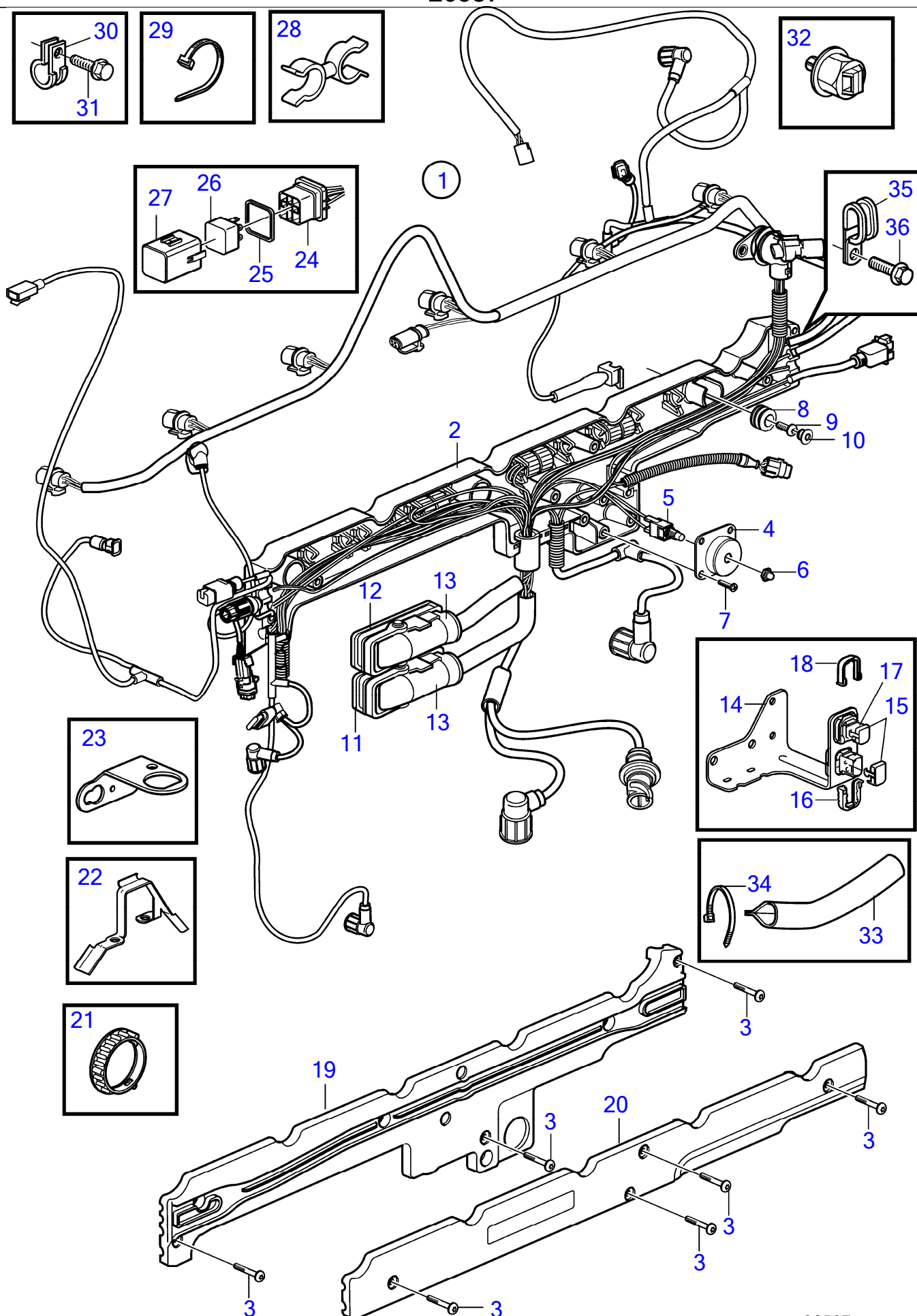
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TAD1662VE, TAD1640VE-B, TAD1641VE-B, TAD1642VE-B, TAD1660-62VE
26588



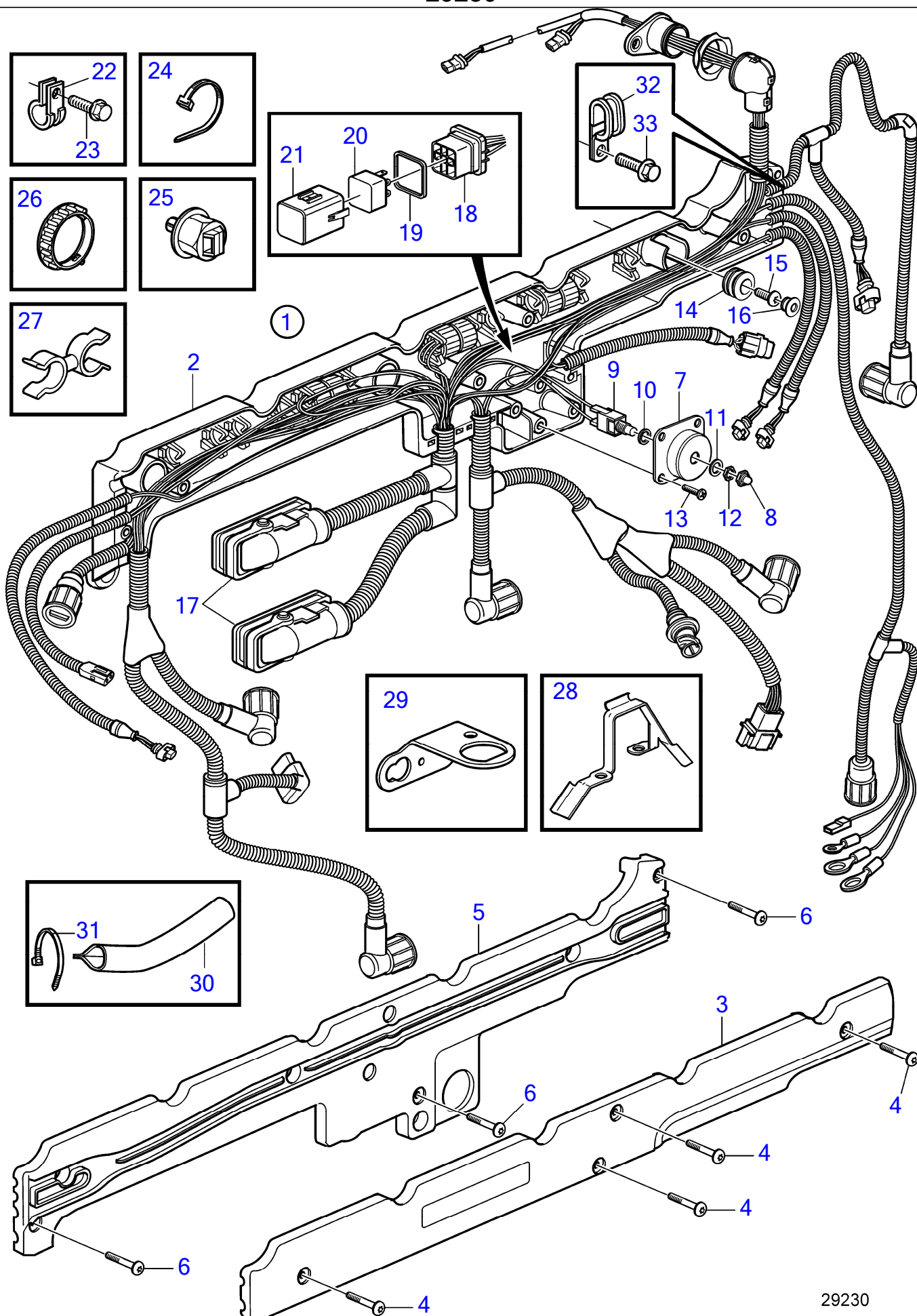
26588

Ref	Part No.	Qty	Description	Notes
1	3593682	1	Wiring harness	
2	20782686	1	• Box	
3	1079687	6	• Rubber cushion	
4	969598	6	• Six point socket scr	
5	1079677	6	• Plug	
6		1	• Bracket	
7	3985652	3	• • Six point socket scr	
8		1	• Cover	
9	3985652	4	• • Six point socket scr	
10	949997	2	• Clamp	
11	984733	2	• Flange screw	
12	828586	1	• Nut	
13	969408	4	• Six point socket scr	
14	3838949	1	• Cap	
15		1	• Nut	
16		1	• Washer	
17		1	• Nut	
18	873959	1	• Breaker	
19	3587172	1	• Relay socket	
20		1	• • Gasket	
21	3171420	1	• Relay	
22	3587173	1	• Relay box	
23	20440939	3	Retainer	
24	948211	X	Cable tie	
25	3121512	2	Retainer	
26	8131393	X	Retainer	
27	20838254	1	Heat shield	
28	994393	1	Flange screw	
29	11447111	1	Bracket	
30	20750729	1	Heat shield	
31	984733	2	Flange screw	
32	949746	X	Clamp	
33	1545432	1	Attaching clamp	
34	3809463	1	Decal	
35	984734	1	Flange screw	
36	984751	1	Flange screw	
37	984733	7	Flange screw	
38	3963413	1	Ring	
39	980881	2	Cable tie	D=7mm
	3593668	2	Cable tie	D=10mm
40	20711293	1	Tube	
41	862832	1	Cable tie	

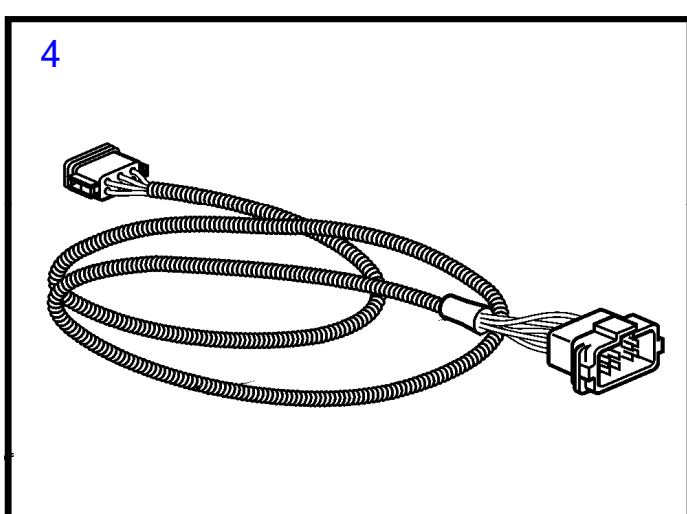
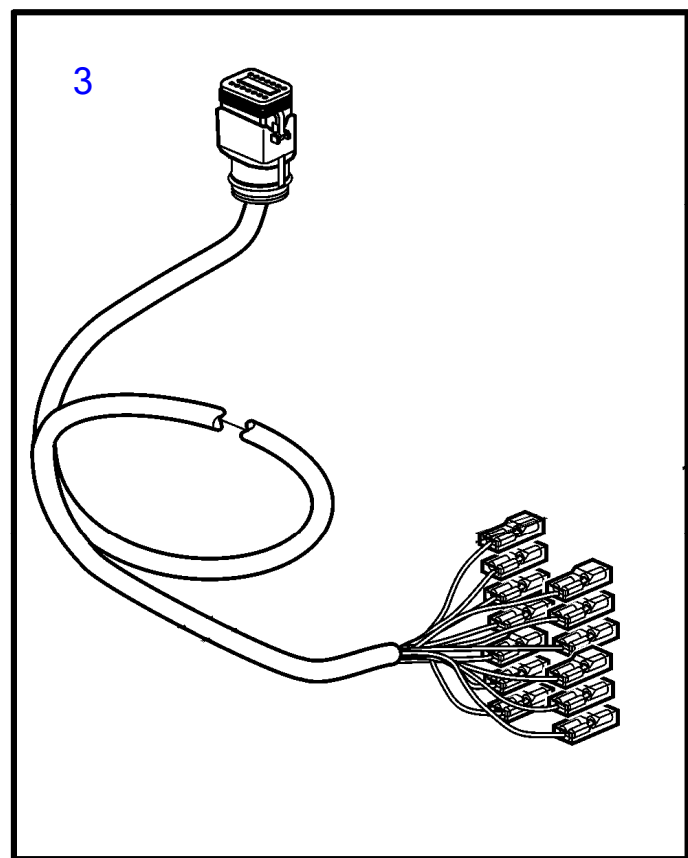
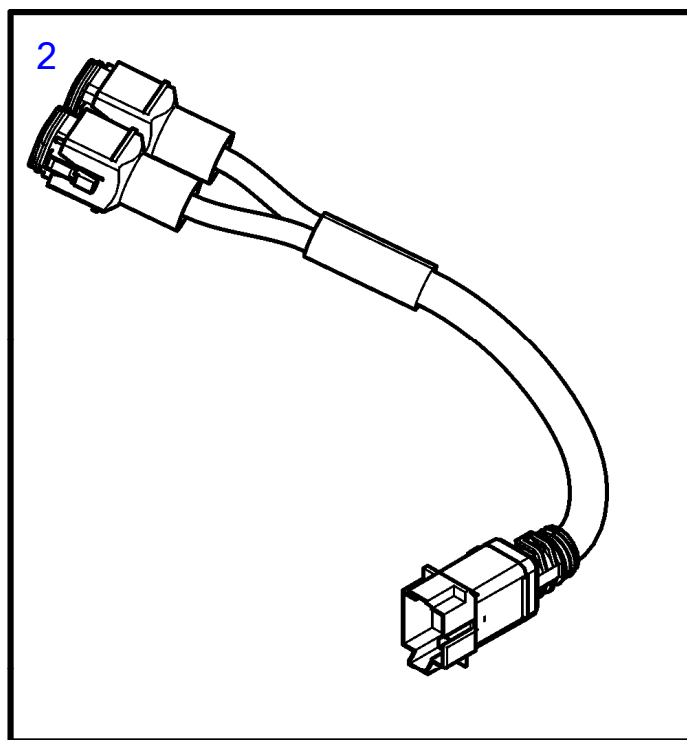
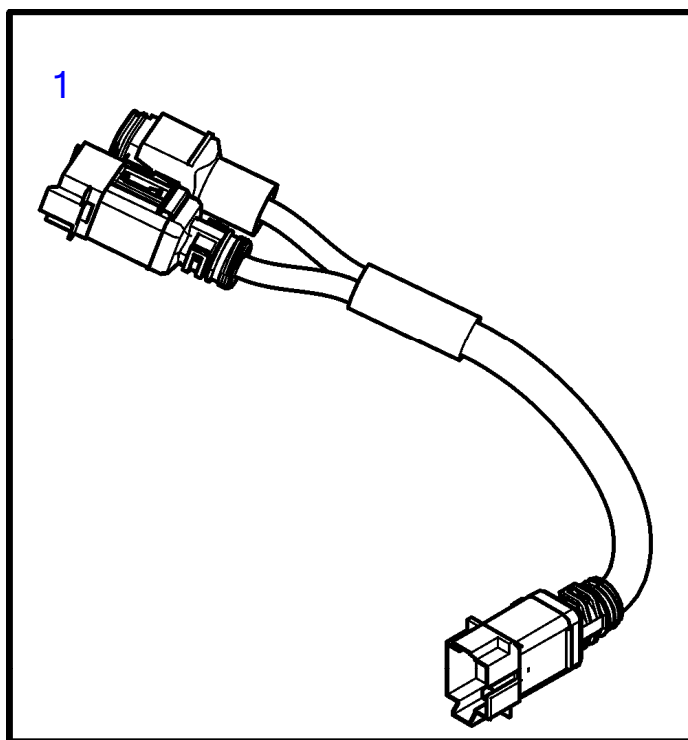
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TAD1662VE, TAD1640VE-B, TAD1641VE-B, TAD1642VE-B, TAD1660-62VE
26587



Ref	Part No.	Qty	Description	Notes
1	21937021	1	Wiring harness	Replaced by 22697487
	22697487	1	Wiring harness	
2	20782686	1	• Box	
3	3985652	7	Six point socket scr	
4	3838949	1	Cap	
5	873959	1	Breaker	
6	828586	1	Nut	
7	956079	4	Cross recessed screw	
8	1079687	5	Rubber cushion	
9	981370	5	Six point socket scr	
10	1079677	5	Plug	
11	20429843	1	Housing	
12	20429842	1	Housing	
13	20429844	2	Adapter	
14	21473923	1	Bracket	
15		2	Cap	
16	993652	1	Adapter	
17		2	Retainer	
18	993650	1	Adapter	
19		1	Bracket	
20		1	Cover	
21	3963413	1	Ring	
22	(20563691)	1	Bracket	Obsolete part
23	3988328	1	Bracket	D=12,7mm
24	3587172	1	Relay socket	M8x16mm
25		•	Gasket	D=67mm
26	3171420	1	Relay	D=35mm
27	21494263	1	Relay box	
28	3121512	2	Retainer	
29	948211	X	Cable tie	D=67mm
	983472	X	Cable tie	D=35mm
30	949997	X	Clamp	D=31,8mm
	949746	X	Clamp	D=12,7mm
31	984733	X	Flange screw	
32	8131393	X	Retainer	
33	20711293	1	Tube	
34	862832	1	Cable tie	
35	961664	1	Hose clamp	
36	984733	1	Flange screw	



Ref	Part No.	Qty	Description	Notes
1	21937021	1	Wiring harness	Replaced by 22697487
	22697487	1	Wiring harness	
2	(8131655)	1	• Box	Obsolete part, SN-2016008533,If needed the old parts! all three new parts have to
	20782686	1	• Box	SN2016008534-
3	8131657	1	• Cover	SN-2016008533,If needed the old parts! all three new parts have to been bought
	20785240	1	• Cover	SN2016008534-
4	3985652	4	• • Six point socket scr	
5	8131656	1	• Box	SN-2016008533,If needed the old parts! all three new parts have to been bought
	20784842	1	• Intermediate section	SN2016008534-
6	3985652	3	• Six point socket scr	
7	3838949	1	• Cap	
8	828586	1	• Nut	
9	873959	1	• Breaker	
10		1	• Nut	
11		1	• Washer	
12		1	• Nut	
13	969408	4	• Six point socket scr	
14	1079687	5	• Rubber cushion	
15	1079677	5	• Plug	
16	969598	5	• Six point socket scr	
17		2	• Switch	
18	3587172	1	• Relay socket	
19		1	• • Gasket	
20	3171420	1	• Relay	
21	3587173	1	• Relay box	
22	949997	1	Clamp	D=31,8mm
	949746	2	Clamp	D=12,7mm
23	984733	X	Flange screw	M8x16mm
24	948211	X	Cable tie	D=67mm
	983472	X	Cable tie	D=35mm
25	8131393	X	Retainer	
26	3963413	1	Ring	
27	3121512	2	Retainer	
28	(20563691)	1	Bracket	Obsolete part
29	3988328	1	Bracket	
30	20711293	1	Tube	
31	862832	1	Cable tie	
32	961664	1	Hose clamp	
33	984733	1	Flange screw	

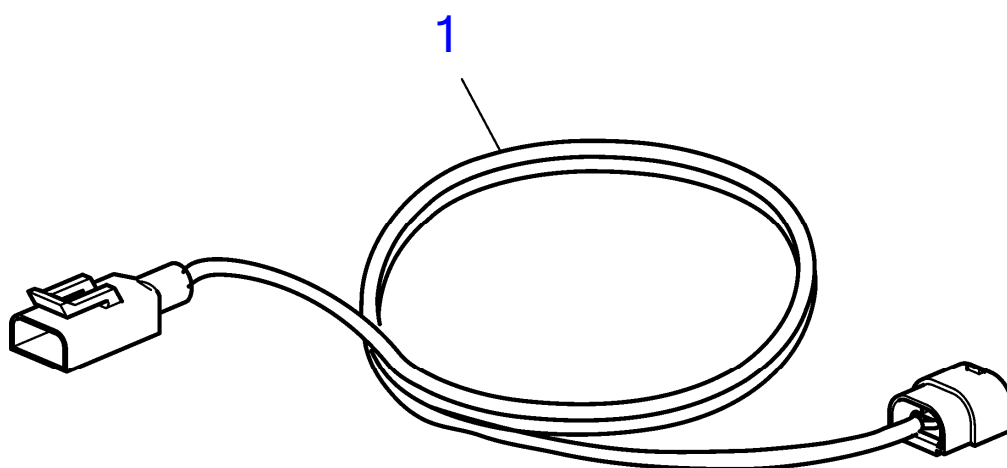


27261

30 Cable DCU

TAD1641VE, TAD1642VE, TAD1643VE, TAD1650VE, TAD1660VE, TAD1661VE, TAD1662VE,
TAD1640VE-B, TAD1641VE-B, TAD1642VE-B, TAD1660-62VE, TAD1662VE EU5

Ref	Part No.	Qty	Description	Notes
1	22081500	1	Wiring harness	Cable for DCU
2	21930866	1	Wiring harness	Cable For DCU
3	21935378	1	Wiring harness	Cable For DCU, 12 Pole-HD
4	874414	1	Extension cable	L=3.0m
	874119	1	Extension cable	L=5.0m
	874386	1	Extension cable	L=7.0m

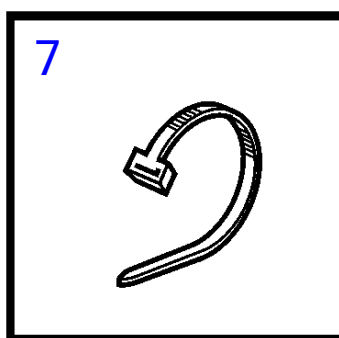
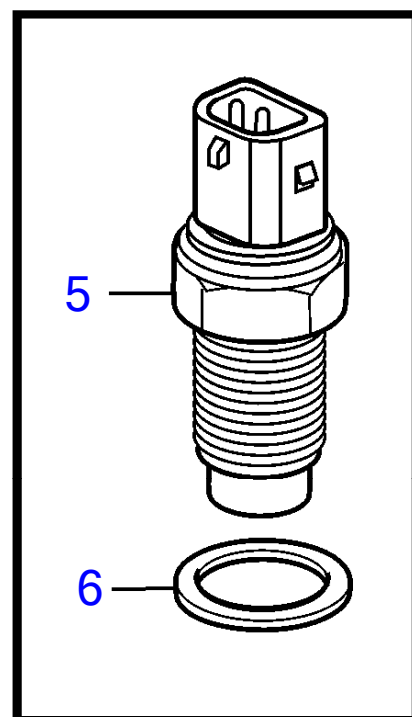
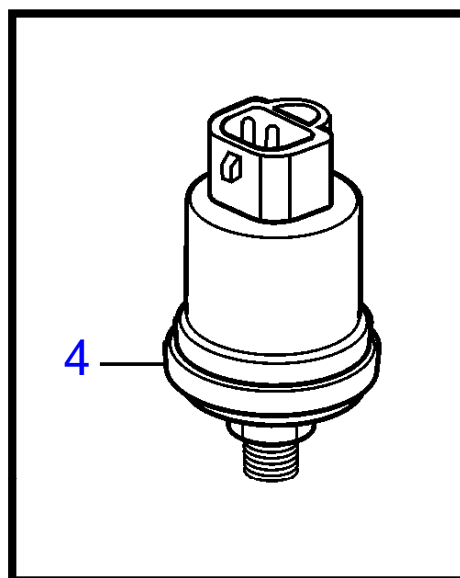
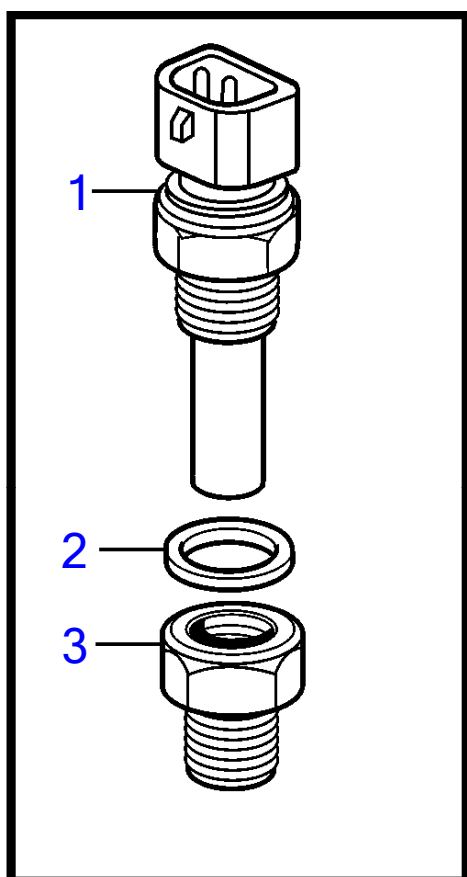


29424

30 Extension Cable For Coolant Level Sensor

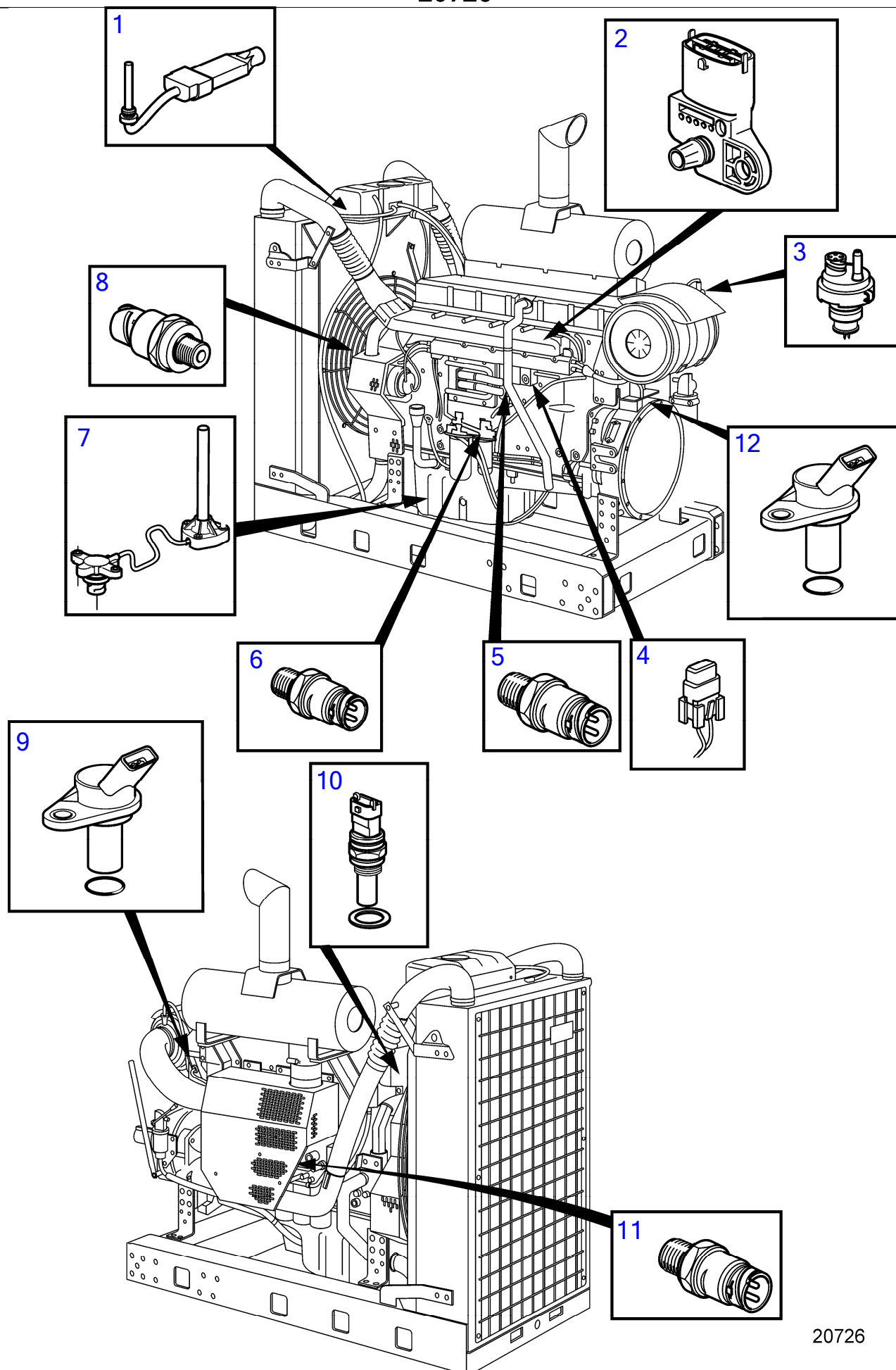
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TAD1640VE-B, TAD1641VE-B, TAD1642VE-B, TAD1660-62VE, TAD1662VE EU5

Ref	Part No.	Qty	Description	Notes
1	23221237	1	Wiring harness	3m
	22304110	1	Wiring harness	1,5 m



20939

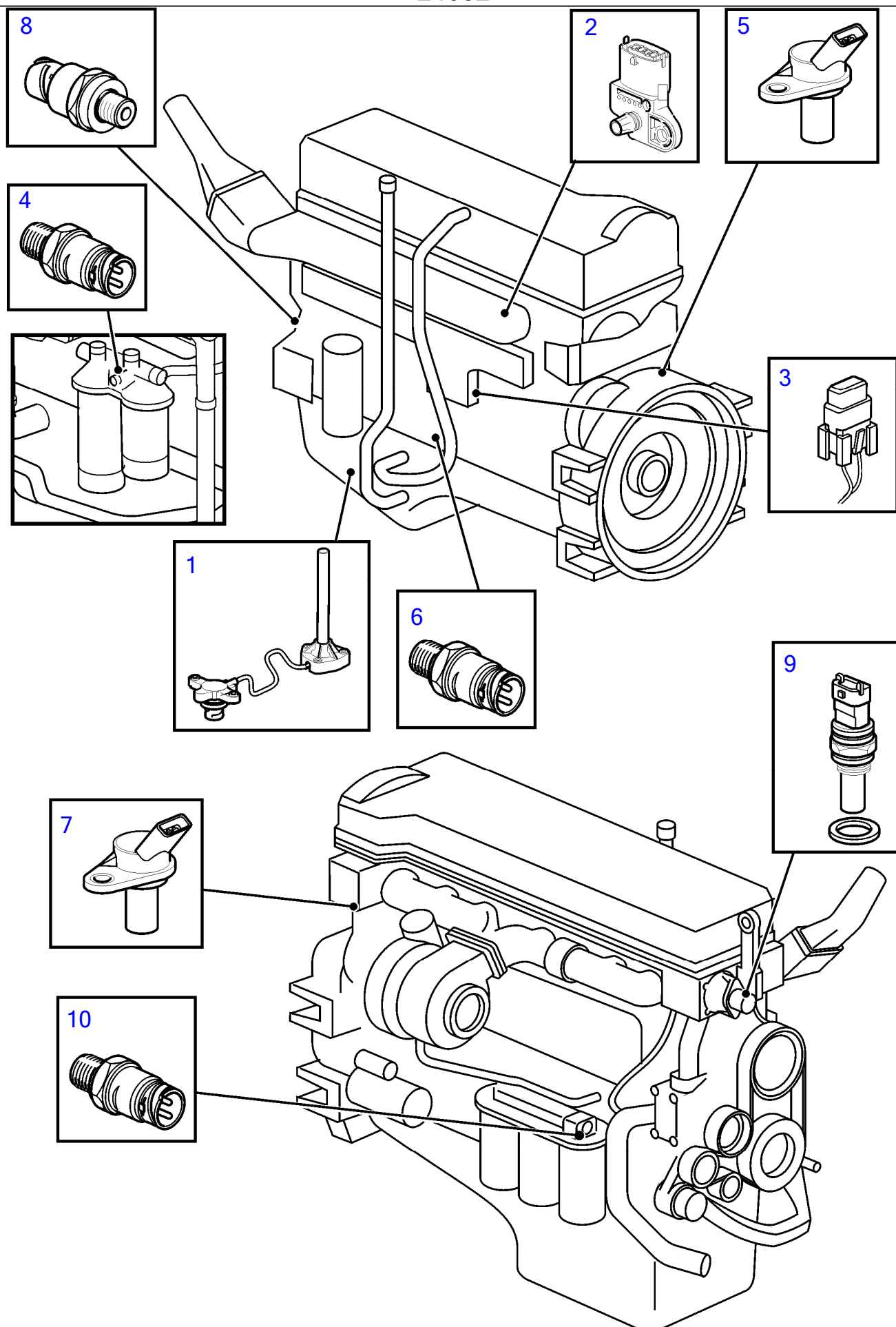
Ref	Part No.	Qty	Description	Notes
1	862154	1	Temperature sensor	
2	11998	1	Gasket	
3	3832778	1	Reduction nipple	
4	866835	1	Sensor	
			· Bulletin P-38-6-1	Vibration Damping Kit
5	862251	1	Engine speed sensor	
6	948884	1	Gasket	
7	948211	X	Cable tie	



30 Contacts and Sensors

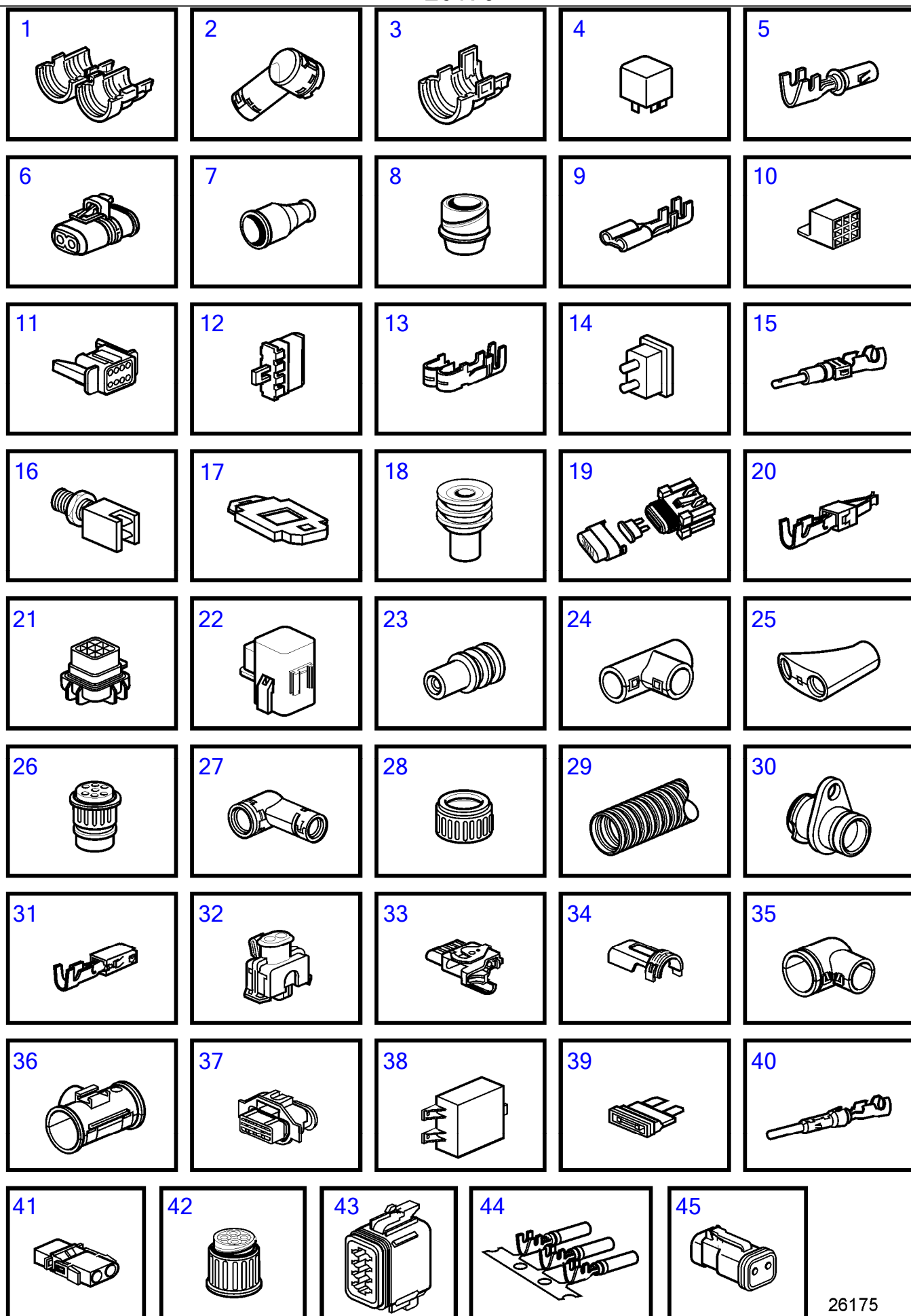
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TAD1641VE-B, TAD1642VE-B

Ref	Part No.	Qty	Description	Notes
1	8140024	1	Sensor, expansion tank • Bulletin P-26-1-9	When Changing Coolant Level Sensor Type to Normally Closed
2	20524936	1	Pressure sensor, pressure/temp	
3		1	Sender, pressure/temp	
4	969161	1	Fuse	
5	21302639	1	Pressure sensor, oil pressure	(20898038)
6	21302639	1	Pressure sensor, fuel pressure	(20898038)
7	21042447	1	Oil level sensor, level	(24424110)
8	20796744	1	Pressure sensor, crankcase pressure	(20499340)
9	20513343	1	Sensor	
10	20513340	1	Sensor, coolant water temp.	
11	21202753	1	Pressure switch, piston cooling	Replaced by 21202753.
	21202753	1	Pressure switch, piston cooling	No TAD1660/61/62VE
12	20513343	1	Sensor	



Ref	Part No.	Qty	Description	Notes
1	21042447	1	Oil level sensor, level	
2	20524936	1	Pressure sensor, pressure/temp	
3	969161	1	Fuse	
4	20898038	1	Pressure sensor, fuel pressure	(20886108)
5	20513343	1	Sensor	(24424110)
6	20898038	1	Pressure sensor, oil pressure/temperature	(20499340)
7	20513343	1	Sensor	
8	20796744	1	Pressure sensor, crankcase pressure	
9	20513340	1	Sensor	
10	21202753	1	Pressure switch, piston cooling	Replaced by 21202753.
	21202753	1	Pressure switch	

TAD1641VE, TAD1642VE, TAD1643VE, TAD1650VE, TAD1660VE, TAD1661VE,
TAD1662VE, TAD1640VE-B, TAD1641VE-B, TAD1642VE-B, TAD1660-62VE
26175

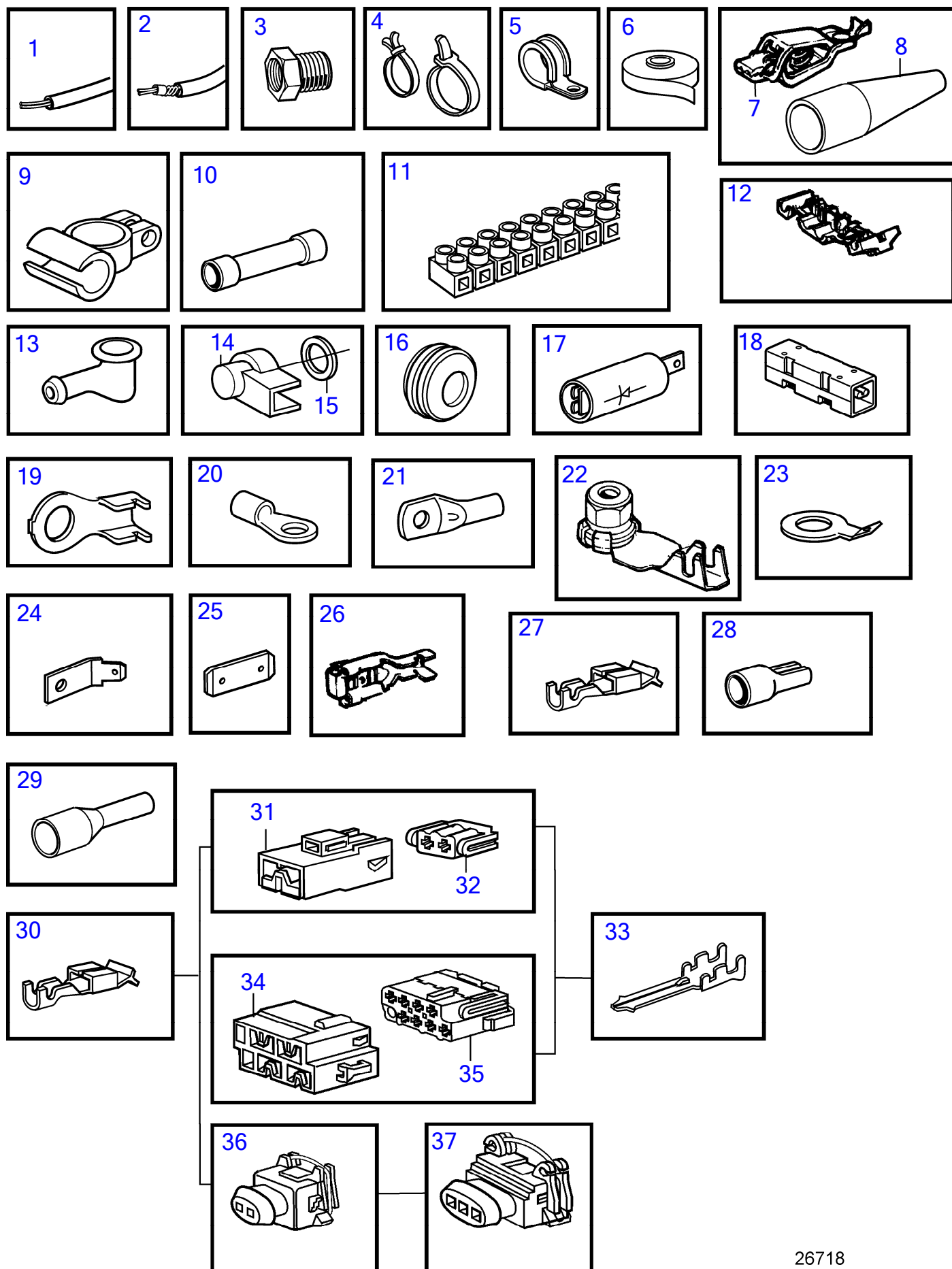


26175

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TAD1640VE-B, TAD1641VE-B, TAD1642VE-B, TAD1660-62VE, TAD1662VE EU5

Ref	Part No.	Qty	Description	Notes
1	3985597	1	Adapter	L=32mm
	3985620	1	Adapter	
2	3987768	2	Adapter	
3	3987767	2	Adapter	
4	3171420	1	Relay	
5	20375186	12	Terminal	
	3963409	3	Terminal	
	3986767	X	Cable terminal	O.D=0,3mm
	11039671	3	Terminal	
	881788	X	Cable terminal	
6	20409386	6	Insulator	
7	11039397	1	End sleeve	
8	1079283	1	Insulator cover	
9	973122	5	Terminal	
10	973121	1	Terminal	
11	874114	1	Housing	
12	874115	1	Wedge	
13	874220	2	Cable terminal	
14	874250	2	Pin	For 874114
15	874033	6	Terminal	
	192396	X	Terminal	
16	873959	1	Breaker	Stop
17	873944	1	Retainer	For fuse 980555
18	873854	2	Sealing sleeve	
19	874111	1	Fuse holder	10 amp
20	3587154	3	Cable terminal	
	3587151	1	Cable terminal	
21	3587172	1	Relay socket	
22	3587173	1	Relay box	Replaced by 21494263
	21494263	1	Relay box	
23	3587461	X	Sealing plug	
	3587158	1	Sealing wire	
	3587170	3	Sealing wire	
	970771	X	Cable seal	I.D=3,4mm Y.D=6,0mm
	8159012	X	Seal	I.D=0,1mm Y.D=3,9mm
24	9806110	2	Coupling piece	
	3171511	X	Coupling piece	D=10mm
	3171768	X	Manifold	D=13mm
	7807398	1	Coupling piece	
	7807403	1	Coupling piece	
25	3943200	2	Manifold	L=68,8mm
	3986692	1	Manifold	
	3987598	1	Manifold	L=48,2mm
	3988390	1	Manifold	L=57,9mm
	3986692	1	Manifold	
26	3963412	1	Housing	
27	3985598	1	Adapter	D=25,8mm
	3987766	2	Adapter	D=24mm
28	8141886	1	Adapter	D=22mm
29	874558	X	Hose	I.D=8,5mm
	874559	X	Hose	I.D=10mm
	874560	X	Hose	I.D=13mm
	874561	X	Hose	I.D=17mm
	874562	X	Hose	I.D=22mm
	874563	X	Hose	I.D=26mm
30	20429993	1	Pass-through	
31	881600	X	Cable terminal	
32	874368	1	Receptacle housing	
33	20429872	1	Housing	
34	20429873	X	Insulator cover	
35	20450150	1	Adapter	
36	3943090	X	Manifold	
37	874456	1	Receptacle housing	
38	21959663	1	Voltage converter	12V, D3-D,E,F
39	969161	1	Fuse	10A
40	984945	X	Terminal	(3963408)
41	948995	1	Housing	
42	8159013	X	Housing	Replaced Part, Se Section 41414
43	874091	X	Housing	8-pole

Ref	Part No.	Qty	Description	Notes
44	874251	X	Terminal	Terminal socket
45	3888267	X	Housing	

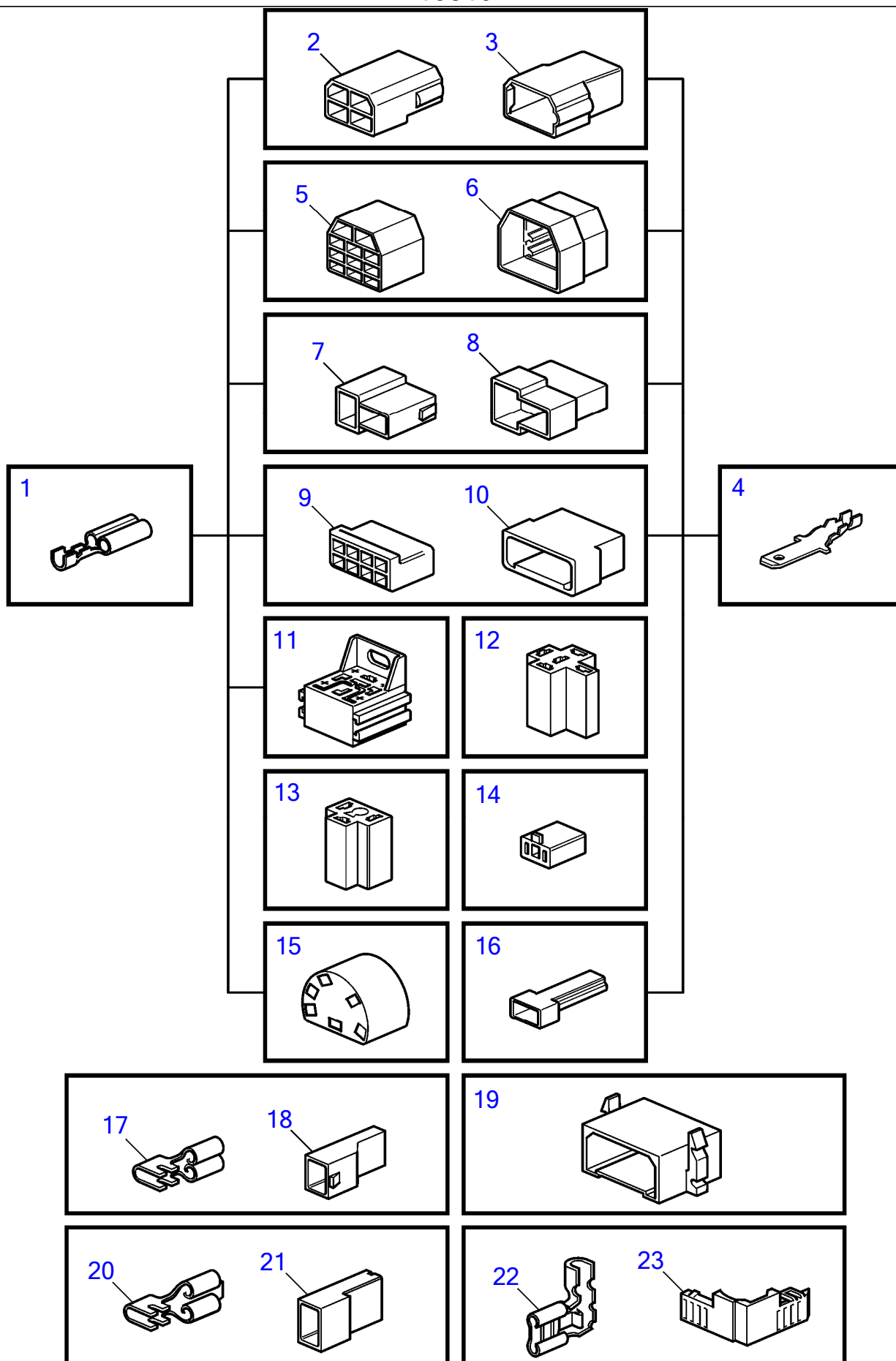


TAD1641VE, TAD1642VE, TAD1643VE, TAD1650VE, TAD1660VE, TAD1661VE, TAD1662VE,
TAD1640VE-B, TAD1641VE-B, TAD1642VE-B, TAD1660-62VE, TAD1662VE EU5

Ref	Part No.	Qty	Description	Notes
1	970624	1	Electric cable, type RK	1,5mm², black
	970626	1	Electric cable, type RK	1,5mm², red
	970661	1	Electric cable, type R2	1,5mm², red
	(970663)	1	Electric cable, type R2	Obsolete part, 2,5mm², black
	970698	1	Electric cable, type R2	2,5mm², red
	970700	1	Electric cable, type RK	4,0mm², black
	(970709)	1	Electric cable, type RK	Obsolete part, 6,0mm², black
	970711	1	Electric cable, type R2	6,0mm², red
	954485	1	Electric cable, type RK	16,0mm², red
	(954500)	1	Electric cable, type RK	Obsolete part, 25,0mm², red
	954502	1	Electric cable, type RK	35,0mm², red
2	874854	1	Power cable	Non reinforced ship cable approved by classification societies., 2x1,5mm²
	(863657)	1	Cable	Obsolete part, Reinforced ship cable approved by classification societies., 4,0mm²
	874855	1	Power cable	Non reinforced ship cable approved by classification societies., 2x2,5mm²
	(842092)	1	Cable	Obsolete part, Non reinforced ship cable approved by classification societies., 3
	(874858)	1	Power cable	Obsolete part, Non reinforced ship cable approved by classification societies., 6
	(842090)	1	Cable	Obsolete part, Non reinforced ship cable approved by classification societies., 1
	(874861)	1	Power cable	Obsolete part, Non reinforced ship cable approved by classification societies., 2
	(874862)	1	Power cable	Obsolete part, Non reinforced ship cable approved by classification societies., 3
	846639	1	Electric cable	Non reinforced ship cable approved by classification societies., 2x1,5mm²
	874870	1	Power cable	Non reinforced ship cable approved by classification societies., 2x1,5mm²
	846346	1	Cable	Replaced by wiring harness 872679 and adapter 872939
	(874346)	1	Electric cable	Obsolete part, Reinforced ship cable approved by classification societies., RFO
	872679	1	Wiring harness	(846346)
3	872939	1	Adapter	(846346)
4	948211	1	Cable tie	3x1,5mm²
	949666	1	Cable tie, with mount. Hole	3x4,0mm²
	948616	1	Cable tie	3x6,0mm²
	980464	1	Cable tie	Obsolete part
	862832	1	Cable tie, steel	4x1,5mm²
	980881	1	Cable tie	
5	947827	1	Clamp	25,4mm
6	858283	1	Tape	4x2,5mm²
7	844280	1	Clip, battery cable +pole	16x1,5mm²
8	(844278)	1	Isolation	Obsolete part, Red
	(844279)	1	Isolation	Obsolete part, Black
9	954505	1	Terminal, battery cable -pole	D=77mm L=280mm
	954506	1	Terminal, battery cable +pole	D=42mm L=170mm
10	956956	1	Splice	D=102mm L=362mm
	956958	1	Splice	1,5-2,5mm², blue
	956960	1	Splice	L=61mm
11	(926219)	1	Coupling piece	Obsolete part, Black
12	944306	1	Connector	Blue
13	829200	1	Protective cap	0,5-1,0mm², red
14	(1234326)	1	Protecting casing	Obsolete part, 1,5-2,5mm², blue
15	960140	1	Washer	3-6mm², yellow
16	941269	1	Plug	Max 20mm², 12-pole
	821053	1	Protecting bushing	I.D=35mm
	943920	1	Plug	I.D=40mm
17	20382270	1	Diode	
18	20382270	1	Diode	
19	970788	1	Terminal	M5x1,1-2,5mm²
	970789	1	Terminal	M6x1,1-2,5mm²
	(970791)	1	Terminal	Obsolete part, M10x1,1-2,5mm²
20	881492	1	Terminal	M4x1,1-2,5mm²
	881493	1	Terminal	M5x1,1-2,5mm²
	881508	1	Terminal	M6x1,1-2,5mm²
	881494	1	Terminal	M8x1,1-2,5mm²
	881504	1	Terminal	M10x1,1-2,5mm²
	881506	1	Terminal	M4x2,6-6,0mm²
	881495	1	Terminal	M5x2,6-6,0mm²
	881496	1	Terminal	M6x2,6-6,0mm²
	(881497)	1	Terminal	Obsolete part, M8x2,6-6,0mm²
	881498	1	Terminal	M10x2,6-6,0mm²
	940331	1	Terminal	M5x6,1-10,0mm²
	(940332)	1	Terminal	Obsolete part, M6x6,1-10,0mm²
	940333	1	Terminal	M8x6,1-10,0mm²
	(940334)	1	Terminal	Obsolete part, M10x6,1-10,0mm²
	881512	1	Terminal	M5x10,1-16,0mm²

TAD1641VE, TAD1642VE, TAD1643VE, TAD1650VE, TAD1660VE, TAD1661VE, TAD1662VE,
TAD1640VE-B, TAD1641VE-B, TAD1642VE-B, TAD1660-62VE, TAD1662VE EU5

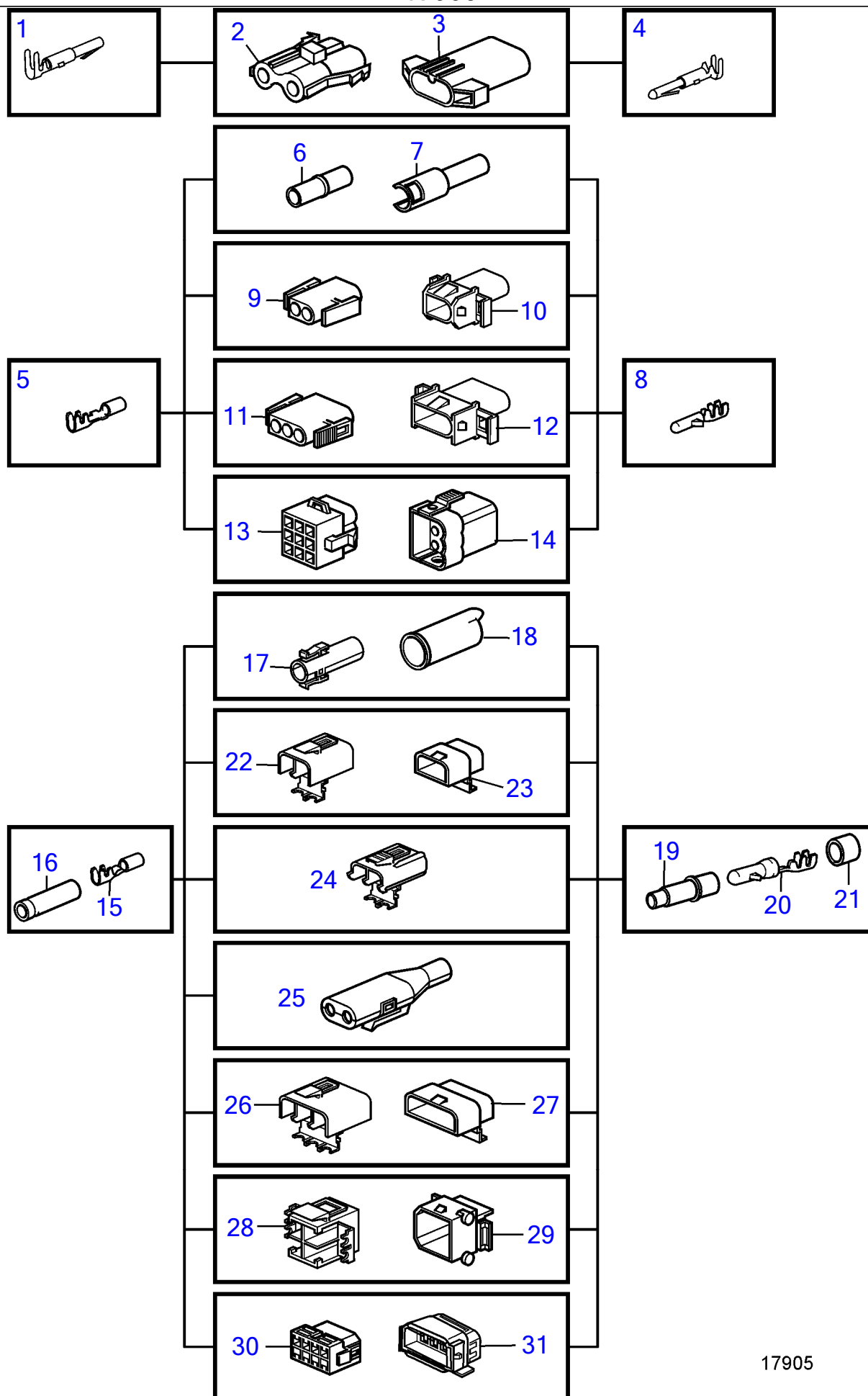
Ref	Part No.	Qty	Description	Notes
	940335	1	Terminal	M6x10,1-16,0mm ²
	940336	1	Terminal	M8x10,1-16,0mm ²
	940337	1	Terminal	M10x10,1-16,0mm ²
21	949587	1	Cable terminal	M10x10mm ²
22	8140576	1	Nut	M4
23	865758	1	Cable terminal	I.D=12,5 D=23mm
24	944485	1	Terminal	6,3xM5x180
25	839328	1	Tab	16,3x6,3x0,8
26	881491	1	Terminal	6,3x0,75-2,1mm ²
27	853015	1	Cable terminal	For trim instrument., For 853866, Yasaki
28	942429	1	Terminal	For 853866, Yasaki
29	3829867	1	Cable terminal	
	3829868	1	Cable terminal	
30	970777	1	Terminal	
31	968377	1	Housing	2,8x2 natural
	968379	1	Housing	2,8x2 gray
32	968376	1	Housing	4,8/2,8x2 natural
	968378	1	Housing	4,8/2,8x2 gray
33	974313	1	Terminal	2,8x0,8x1,1-2,5mm ²
34	968401	1	Housing	2,8x8 natural
35	968400	1	Housing	4,8/2,8x8 natural
36	976256	1	Housing	2-pole
37	967713	1	Housing	3-pole



TAD1641VE, TAD1642VE, TAD1643VE, TAD1650VE, TAD1660VE, TAD1661VE, TAD1662VE,
TAD1640VE-B, TAD1641VE-B, TAD1642VE-B, TAD1660-62VE, TAD1662VE EU5

Ref	Part No.	Qty	Description	Notes
1	973150	1	Terminal	6,3x0,8x1,1-2,5mm ²
	949206	1	Cable terminal	6,3x0,8x4,0-6,0mm ²
2	948856	1	Housing	6,3x4 natural
3	948855	1	Housing	6,3x4 natural
4	973117	1	Terminal	6,3x0,8x0,5-1,0mm ²
	881487	1	Terminal	6,3x0,8x0,75-2,5mm ²
	881488	1	Terminal	6,3x0,8x4,0-6,0mm ²
5	945830	1	Housing	6,3x11 natural
6	945831	1	Tab housing	6,3x11 natural
7	958210	1	Housing	6,3x2 black
8	958209	1	Housing	6,3x2 black
9	944076	1	Housing	6,3x8 natural
10	948857	1	Housing	6,3x8 natural
11	977184	1	Housing	6,3x5x4,8/2,8x4
12	1214948	1	Housing	6,3x5 black
13	945469	1	Housing	6,3x3 black
14	1578937	1	Housing	6,3x2 natural
15	828624	1	Receptacle housing	6,3x6
16		1	Housing	6,3x1 black
17	949405	1	Terminal	4,8x1,1-2,5mm ²
18	947848	1	Housing	4,8x1 natural
19	944077	1	Housing	6,3x8 natural
20	881483	1	Terminal	6,3x0,8x1,1-2,5mm ²
	881484	1	Terminal	6,3x0,8x4,0-6,0mm ²
21	949597	1	Housing	6,3x1 natural
	943511	1	Housing	6,3x1 natural
22	881489	1	Terminal	6,3x0,8x1,1-2,5
23	944221	1	Housing	6,3x1 natural

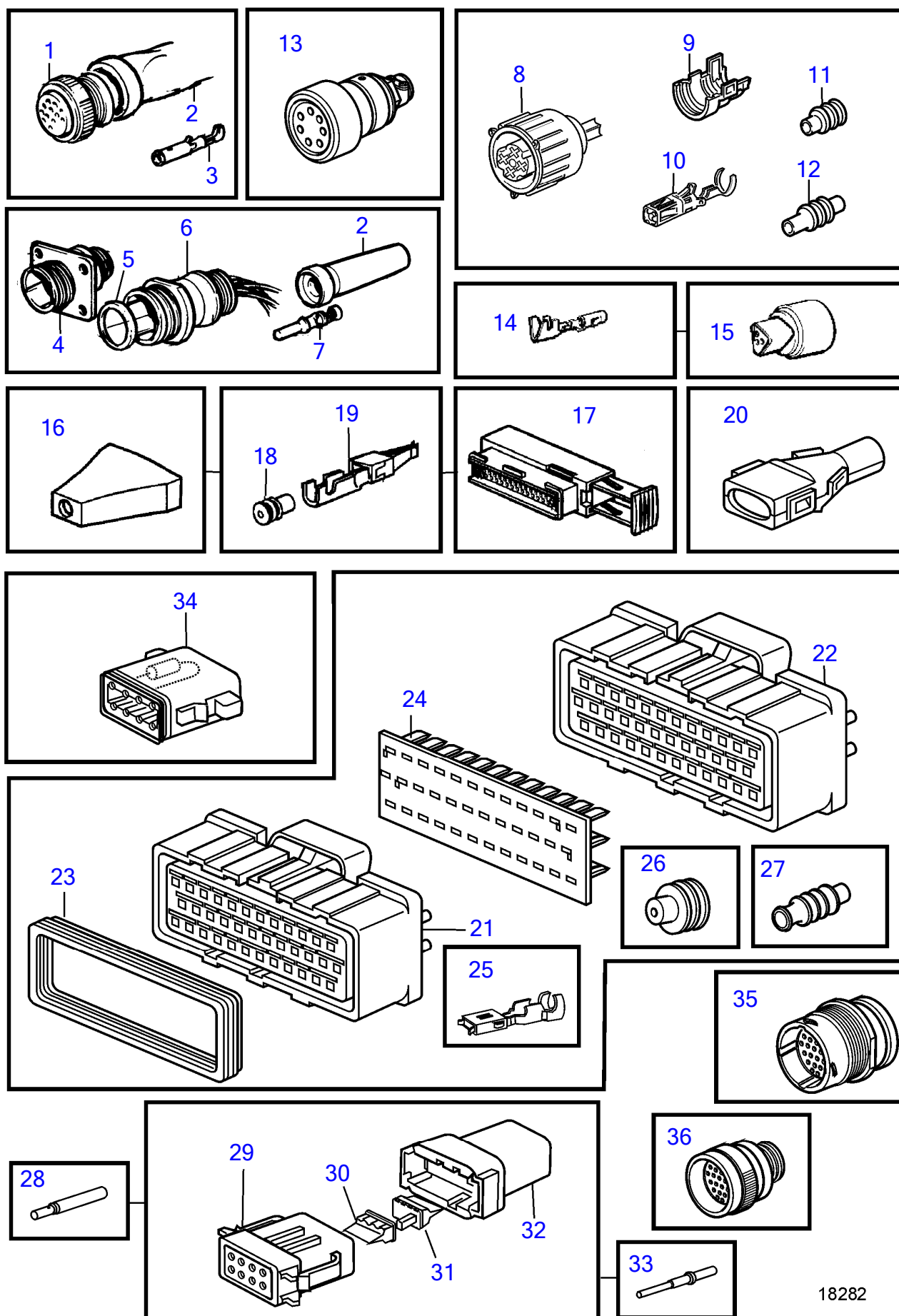
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TAD1662VE, TAD1640VE-B, TAD1641VE-B, TAD1642VE-B, TAD1660-62VE
17905



17905

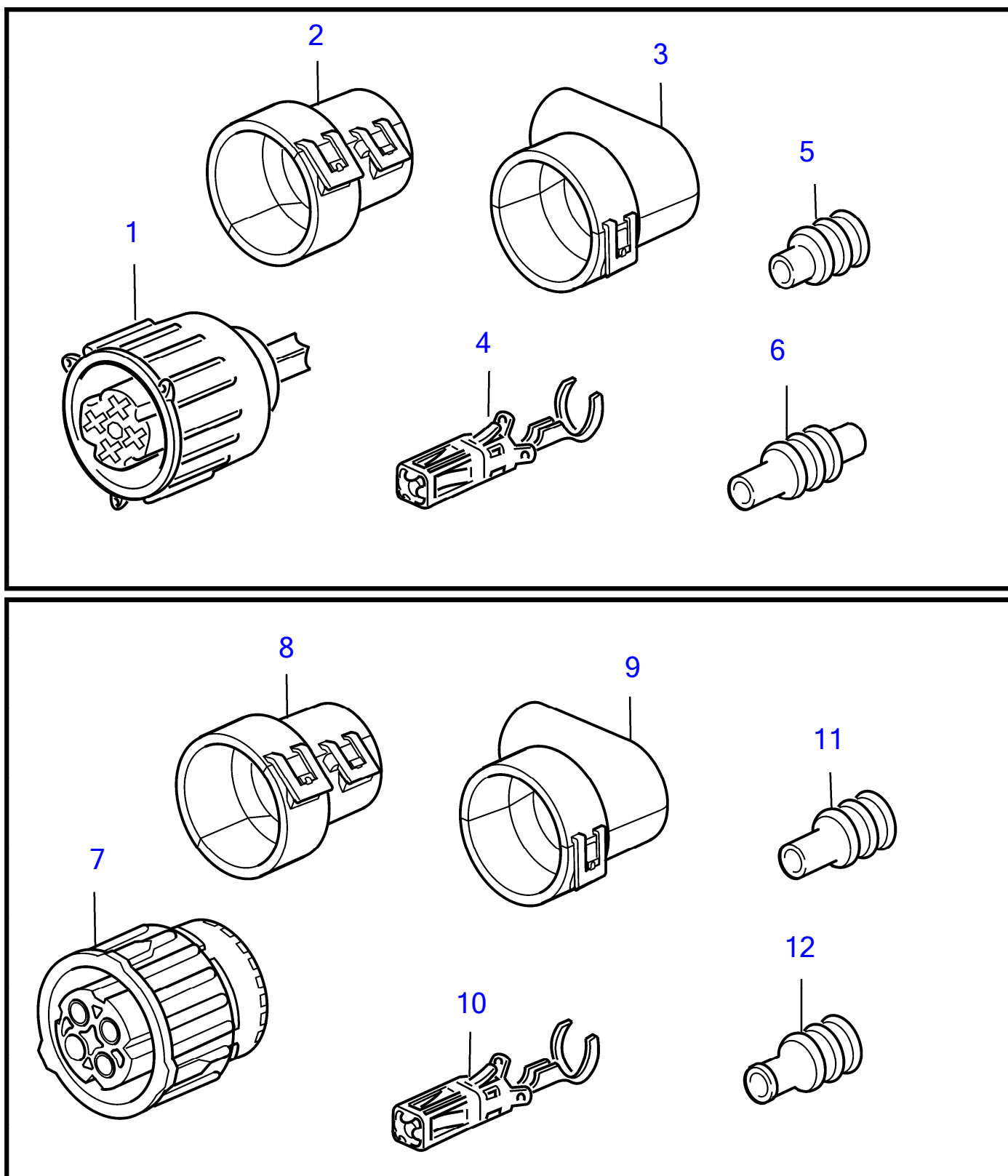
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TAD1640VE-B, TAD1641VE-B, TAD1642VE-B, TAD1660-62VE, TAD1662VE EU5

Ref	Part No.	Qty	Description	Notes
1	946038	1	Terminal	2,1x0,5-1mm ²
2	944224	1	Housing	2-pole
3	944223	1	Housing	2-pole
4		1	Cable terminal	Not marketed by Volvo Penta., 2,1x0,5-1mm ²
5	965822	1	Terminal	3,5x1,1-2,5mm ²
	948289	1	Terminal	3,5x2,5-4,0mm ²
6	949584	1	Housing	3,5x1 natural
7	949583	1	Housing	3,5x1 natural
8	969831	1	Cable terminal	3,5x0,5-1mm ²
	965824	1	Terminal	3,5x1,1-2,5mm ²
	965825	1	Terminal	3,5x2,6-4,0mm ²
9	948996	1	Housing	3,5x2 natural
10	948995	1	Housing	3,5x2 natural
11	948296	1	Housing	3,5x3 natural
12	948297	1	Housing	3,5x3 natural
13	948294	1	Housing	3,5x9 natural
14	948295	1	Housing	3,5x9 natural
15	949371	1	Terminal	3,5x0,75-1,5mm ²
16	1598753	1	Insulator	
17	1307035	1	Housing	1-pole
18	1308436	1	Housing	1-pole
19	1608765	1	Insulator	
20	965824	1	Terminal	3,5x2,5-4,5mm ²
21	1608766	1	Seal	
22	1307048	1	Housing	2-pole
23	1307049	1	Housing	2-pole
24	970753	1	Housing	2-pole
25	1624477	1	Housing	2-pole
26	1259828	1	Housing	3-pole
27	3523442	1	Pin housing	3-polig (1259829)
28	1259830	1	Housing	4-pole
29	1259831	1	Housing	4-pole
30	966812	1	Housing	8-pole
31	967809	1	Housing	8-pole



TAD1641VE, TAD1642VE, TAD1643VE, TAD1650VE, TAD1660VE, TAD1661VE, TAD1662VE,
TAD1640VE-B, TAD1641VE-B, TAD1642VE-B, TAD1660-62VE, TAD1662VE EU5

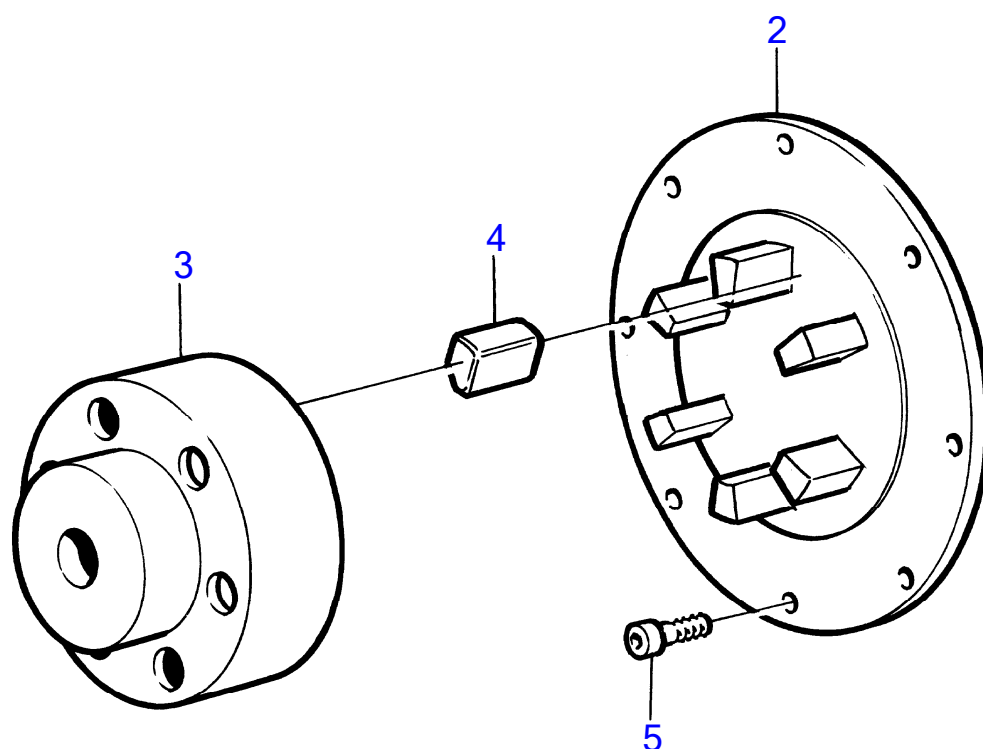
Ref	Part No.	Qty	Description	Notes
1	846612	1	Housing	16-pole
2	847005	1	Sealing collar	L=100mm D=20mm
3	849959	1	Terminal	
4	846611	1	Housing	16-pole
5	846615	1	Sealing ring	
6	846647	1	Block	16-pole
7	849958	1	Terminal	1,6x0,5-1,5mm ²
8	8159013	1	Housing	4-pole
9		1	Adapter	
10	8155901	1	Cable terminal	
11	8155900	1	Cable seal	
12	8155899	1	Sealing plug	
13	1618737	1	Switch	7-pole
14	853521	1	Terminal	
15	(853498)	1	Anode kit	Obsolete part, 3-pole
16	873632	1	Protecting sleeve	
17	9148263	1	Housing	42-pole
	9148135	20	Switch	
	9148107	201	Seal	
	970749	6	Cable terminal	
	970773	6	Cable seal	
	873632	1	Protecting sleeve	
18	970772	1	Cable seal	1,2-2,1mm ² blue
	9148107	1	Seal	1,4-2,0 grey
	25325008	1	Cable seal	2,2-3mm ² white
19	9148135	1	Switch	1,6x0,5-1mm ²
	970778	1	Terminal	4,8/2,8x0,5-1mm ²
	970779	1	Terminal	4,8/2,8x1,1-2,5mm ²
20	8142100	1	Adapter	
21	977532	1	Housing	24-pole black
22	977897	1	Housing	24-polig red
23		1	• Seal	
24	977533	1	Insulator retainer	
25	977539	1	Terminal	
26	1079234	1	Seal	Brown
27	977540	1	Cable seal	Gray
28	874146	1	Terminal	
29	874142	1	Housing	8-pole
30	874144	1	Wedge	Orange
31	874145	1	Wedge	Orange
32	874143	1	Housing	8-pole
33	874147	1	Terminal	
34	874271	1	Resistor, end terminator	
35	874112	1	Connector unit	From control panel to engine. 23-pole., Use Cable Terminal 874147
36	874092	1	Connector unit	From engine to control panel. 23-pole., Use Cable Terminal 874146



TAD1641VE, TAD1642VE, TAD1643VE, TAD1650VE, TAD1660VE, TAD1661VE, TAD1662VE,
TAD1640VE-B, TAD1641VE-B, TAD1642VE-B, TAD1660-62VE, TAD1662VE EU5

Ref	Part No.	Qty	Description	Notes
1	3589939	1	Connector	970772.
2	3888501	1	Adapter, 90 Degrees	Replaced by 3985621
3		1	Adapter 180 Degrees (straight)	Part No: 3841040, Replaced by 3985620
4	3589991	1	Cable terminal	Part 3589991 not replaceable, use pos 7 to 12 instead
5	3807021	1	Sealing plug	Replaced by 970771
6	3807016	1	Cable seal	Replaced by 970772
7	984849	1	Housing	
8	3985621	1	Adapter	
9	3985620	1	Adapter	
10	984846	1	Terminal	
11	970771	1	Cable seal	
12	970772	1	Cable seal	

①

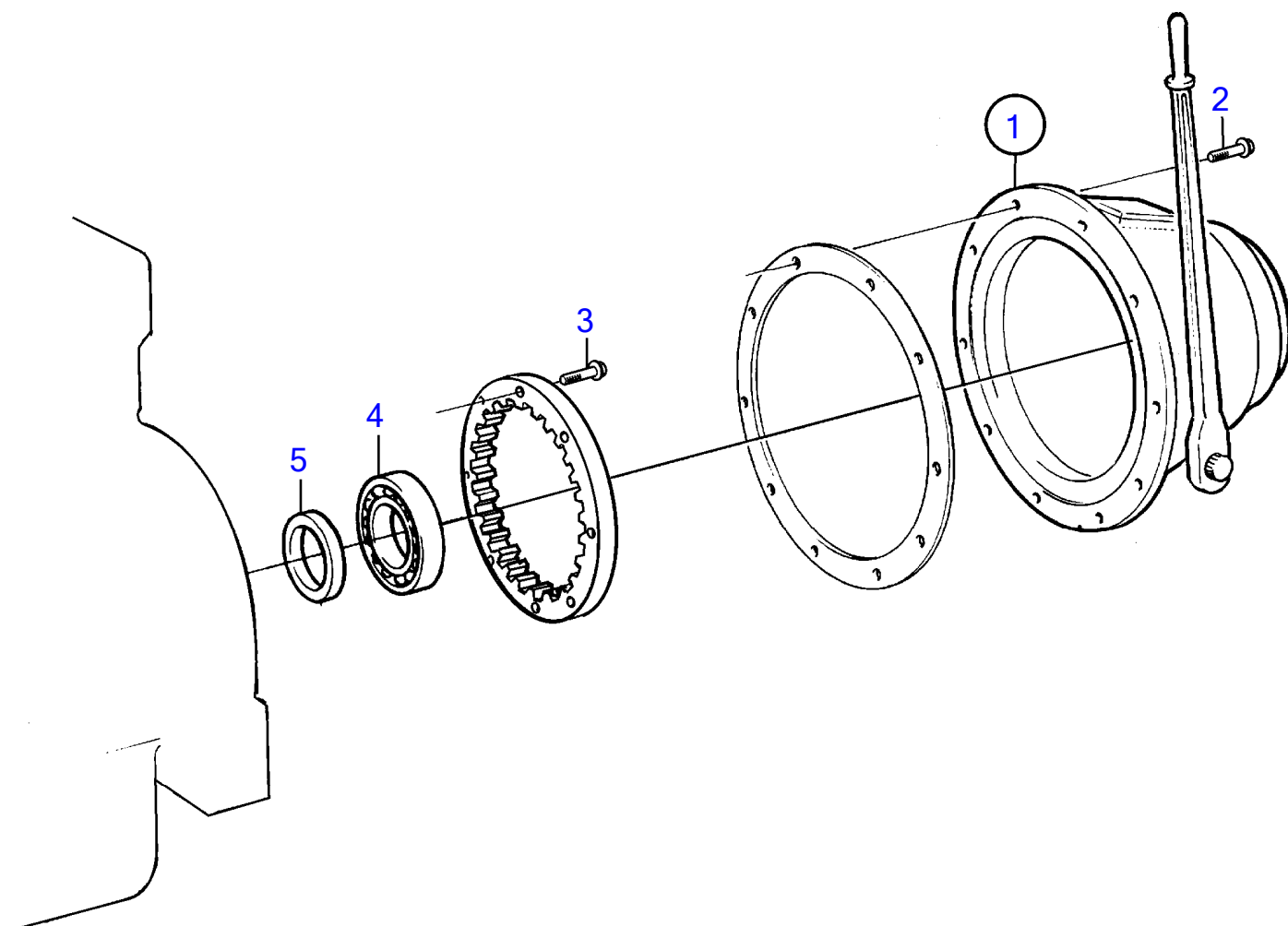


9731

41 Elastic Coupling

TAD1641VE, TAD1642VE, TAD1643VE, TAD1650VE, TAD1660VE, TAD1661VE, TAD1662VE,
TAD1640VE-B, TAD1641VE-B, TAD1642VE-B, TAD1660-62VE, TAD1662VE EU5

Ref	Part No.	Qty	Description	Notes
1		1	Elastic clutch	CF D-275
2	864155	1	• Companion flange	
3	864156	1	• Hub	
4	864157	1	• Rubber cushion, kit	Coupling kit 864154 not sold as sparepart. Only included parts as spare part.
5	956614	8	• Hex. socket screw	

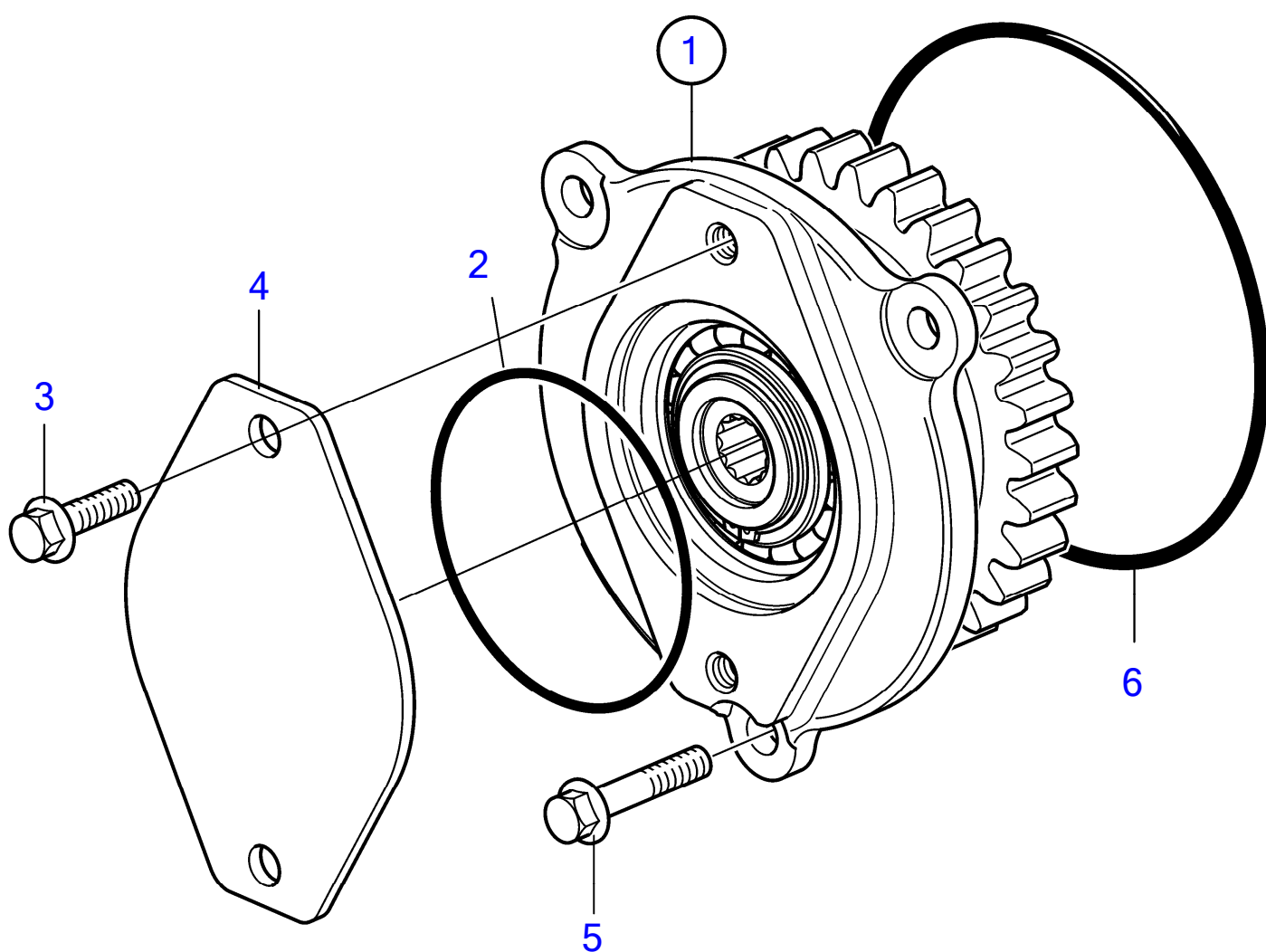


18150

41 Clutch At Rear End. AP314

TAD1641VE, TAD1642VE, TAD1643VE

Ref	Part No.	Qty	Description	Notes
1	(3841933)	1	Power take-off	AP314, ratio 1:1, Replaced by PT143 no 3841933., Obsolete part
	(3841933)	1	Power take-off	Obsolete part, PT143
			.	
			.	
2	984755	12	Flange screw	
3	984815	8	Flange screw	
4	866413	1	Ball bearing	
5	849811	1	Sleeve	

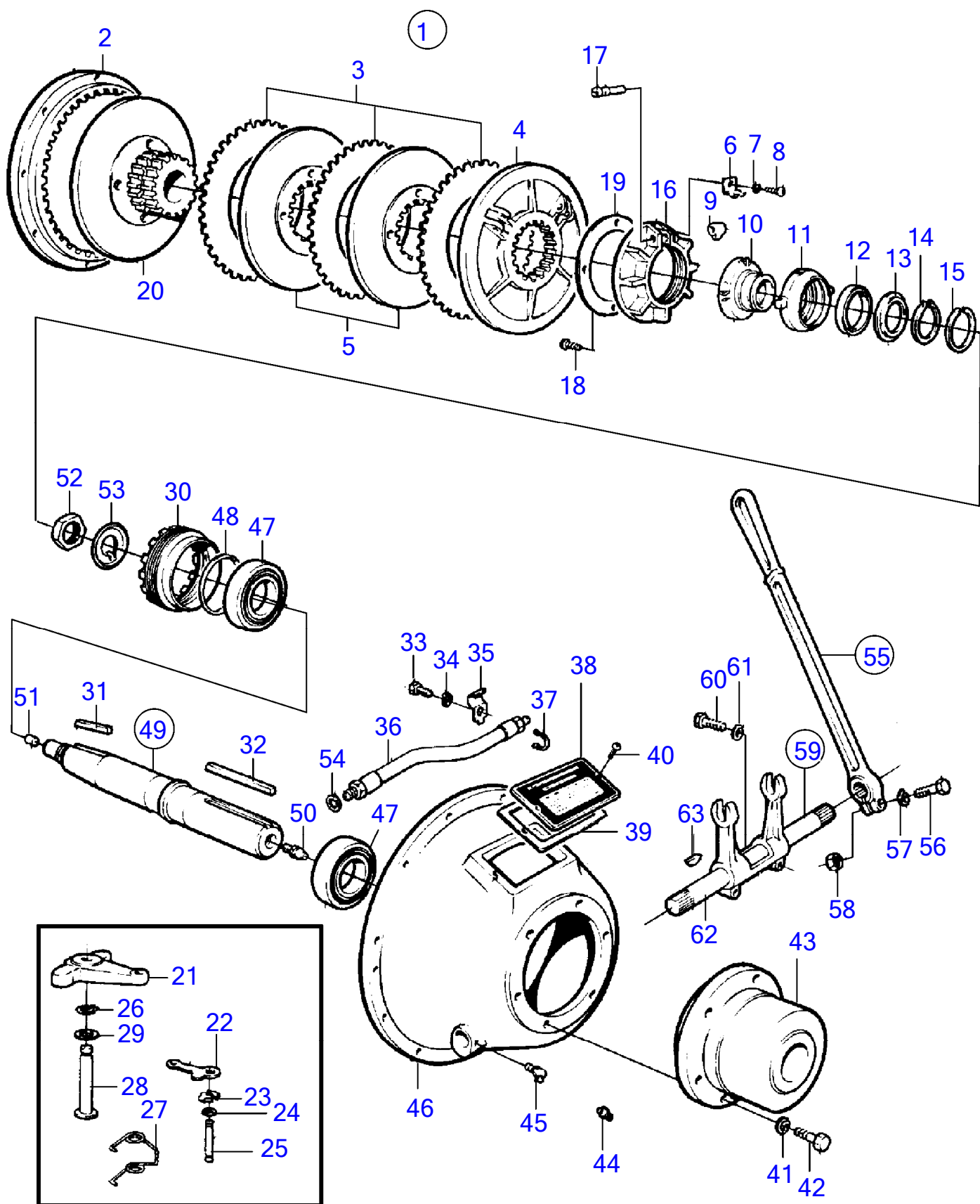


29516

41 Power Take off

TAD1650VE, TAD1660VE, TAD1661VE, TAD1662VE

Ref	Part No.	Qty	Description	Notes
1	11447058	1	Bearing housing	Replaced by 17488641
	17488641	1	Bearing housing	
2	949841	1	· O-ring	
3	984813	2	· Flange screw	
4	11128610	1	Protecting plate	
5	984816	3	Flange screw	
6	992065	1	O-ring	

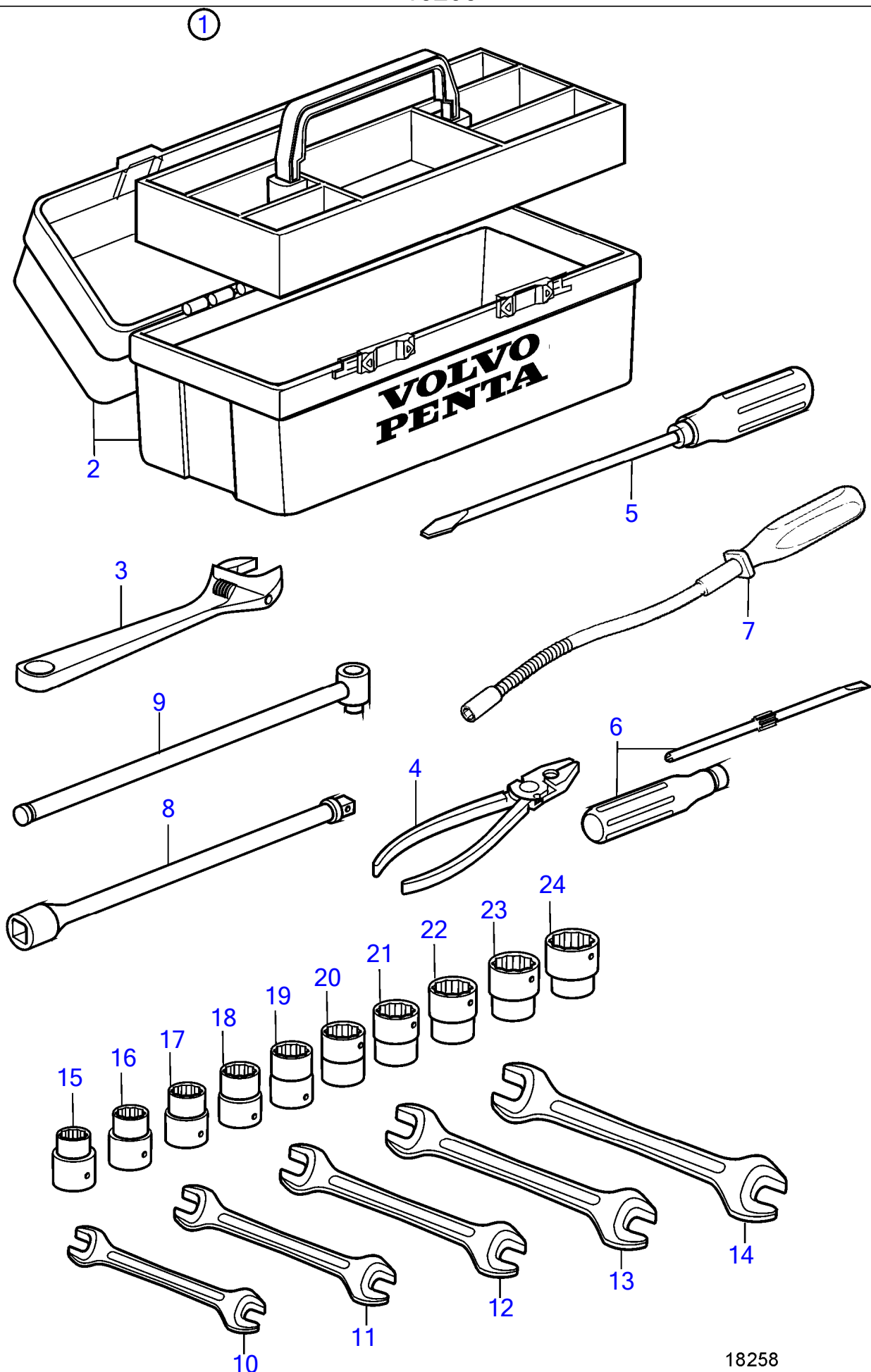


26864

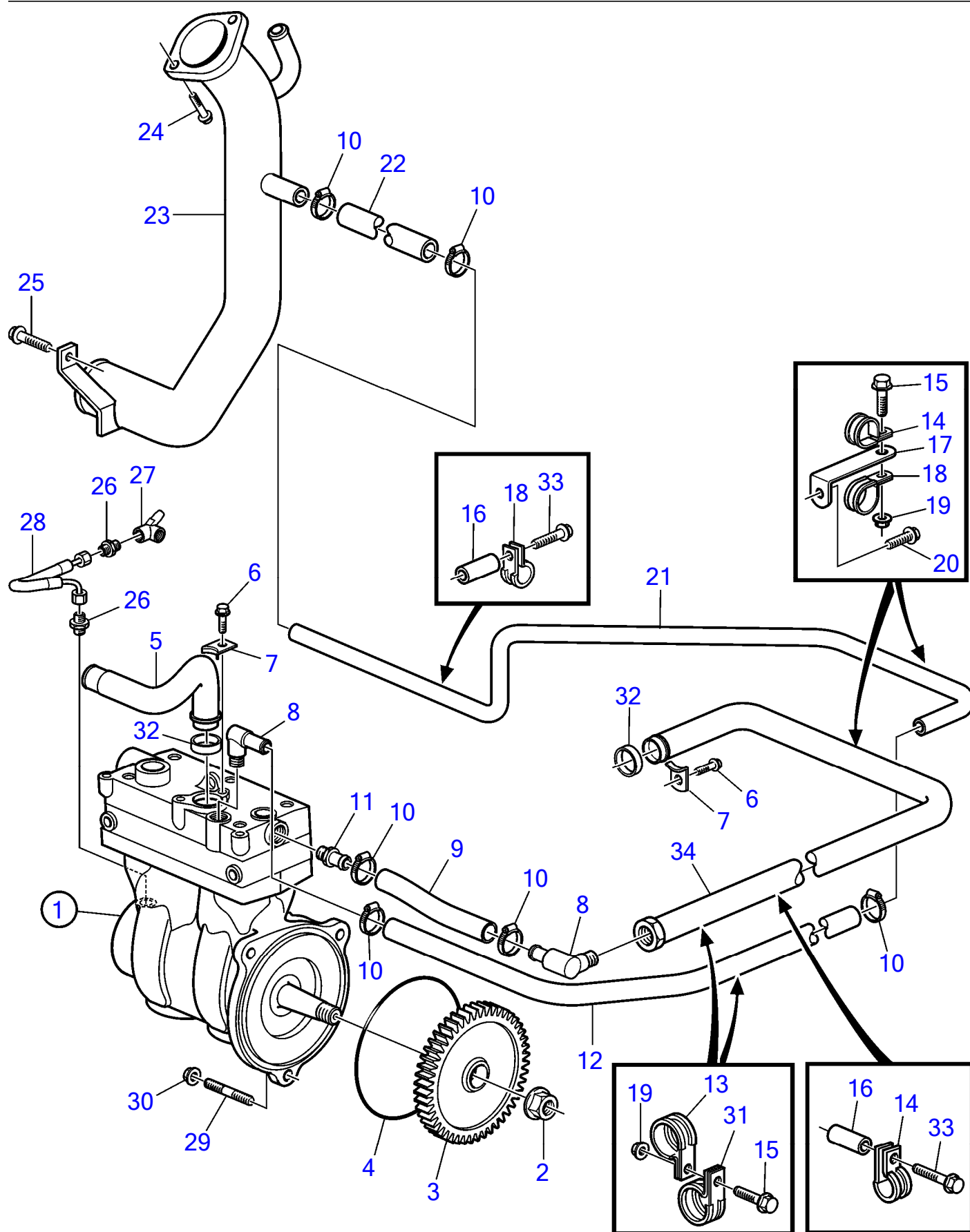
41 Clutch AP314, Components

TAD1641VE, TAD1642VE, TAD1643VE

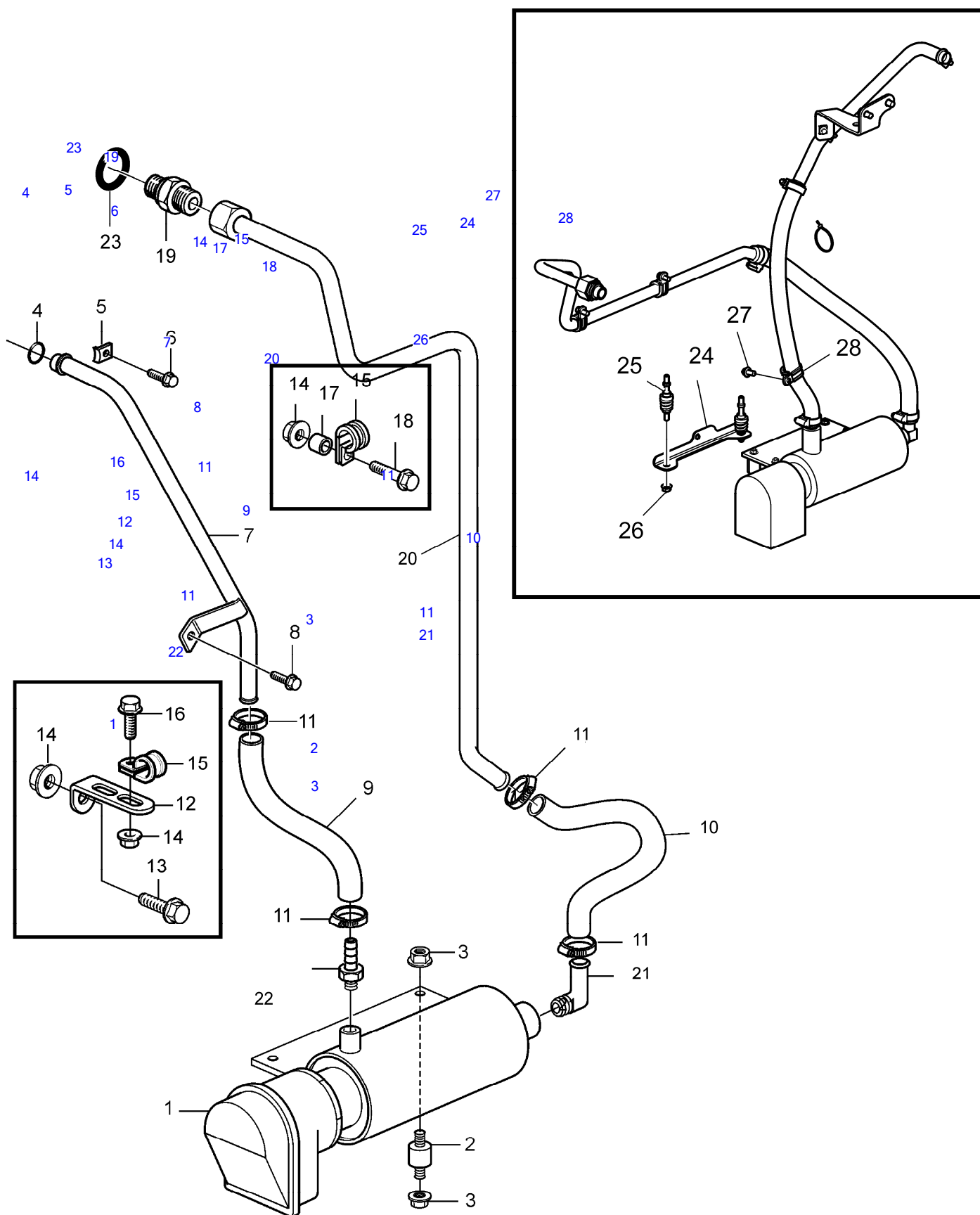
Ref	Part No.	Qty	Description	Notes
1	(3841933)	1	Power take-off	Replaced by PT143 no 3841933., AP314, ratio 1:1, Obsolete part
	(3841933)	1	Power take-off	Obsolete part
2	(847729)	1	• Drive ring	Obsolete part
3	(862582)	3	• Disc	Obsolete part
4	(846531)	1	• Pressure plate	Obsolete part
5	(846560)	2	• Spacer	Obsolete part
6	846525	1	• Lock spring	
7	846528	1	• Spring washer	
8	846527	1	• Screw	
9		1	• Lock	
10	847725	1	• Sleeve	
11	(847724)	1	• Bearing housing	Obsolete part
12	(847723)	1	• Bearing	Obsolete part
13	847726	1	• Retainer	
14	847727	1	• Striker plate	
15	847728	1	• Striker plate	
16	(849982)	1	• Adjusting ring	Obsolete part
17	(846506)	1	• • Lock screw	Obsolete part
18	(846530)	3	• • Screw	Obsolete part
19	(846529)	2	• • Adjusting plate	Obsolete part
20	846561	1	• Drive plate	
21	(846532)	4	• Release arm	Obsolete part
22	(846537)	8	• Link	Obsolete part
23	846501	16	• Striker plate	Replaced by 1ea pin 865059, 2ea splitpin and 2ea washer 865052.
24	(846502)	16	• Washer	Obsolete part
25	846538	8	• Pin	Replaced by 1ea pin 865059, 2ea splitpin and 2ea washer 865052.
26		8	• Striker plate	
27	(846536)	4	• Spring	Obsolete part
28	846533	4	• Pin	Replaced by 1ea pin 865056, 2 ea splitpin 865057 and 2 ea washer 846534.
29	846534	8	• Washer	
30	(846553)	1	• Retainer	Obsolete part
31	847735	1	• Key	
32	(863021)	1	• Key	Obsolete part
33	(847737)	1	• Screw	Obsolete part
34	941907	1	• Spring washer	
35	(846487)	1	• Striker plate	Obsolete part
36	(846488)	1	• Lubricating hose	Obsolete part
37	(846493)	1	• Lock ring	Obsolete part
38		1	• Lock	
39		1	• Gasket	
40		2	• Screw	
41		6	• Washer	
42	(847730)	6	• Screw	Obsolete part
43	(847731)	1	• Bearing housing	Obsolete part
44		1	• Lubricating nipple	
45	846497	2	• Lubricating nipple	
46		1	• Housing	
47	183704	2	• Roller bearing	(847732)
48	(847736)	1	• Lock ring	Obsolete part
49	(863015)	1	• Shaft	Obsolete part
50		1	• Lubricating nipple	
51		1	• Screw	
52	(847733)	1	• Nut	Obsolete part
53	847734	1	• Lock washer	
54	(846557)	1	• Lock washer	Obsolete part
55	(846508)	1	• Hand lever	Obsolete part
56		1	• • Screw	
57		1	• • Washer	
58	(846510)	1	• • Nut	Obsolete part
59	(847916)	1	• Fork	Obsolete part
60		2	• • Bolt	
61		2	• • Washer	
62	6603896	1	• Shaft	
63	(6603893)	2	• Key	Obsolete part



Ref	Part No.	Qty	Description	Notes
1	3832808	1	Tool box	
2	3841091	1	• Tool box	(842021)
3	(962045)	1	• Adjustable wrench	Obsolete part
4	(962032)	1	• Pliers	Obsolete part
5	804771	1	• Screwdriver	
6	978201	1	• Combination screwdri	
7	(884573)	1	• Tool	Obsolete part
8	(962295)	1	• Extension	Obsolete part
9	(962291)	1	• Jointed handle	Obsolete part
10	(884912)	1	• Open-end wrench	10-11mm, Obsolete part
11	(884913)	1	• Open-end wrench	Obsolete part, 12-13mm
12	(884914)	1	• Open-end wrench	Obsolete part, 14-15mm
13	(884915)	1	• Open-end wrench	Obsolete part, 17-19mm
14	(884916)	1	• Open-end wrench	Obsolete part, 22-24mm
15	(962259)	1	• Sleeve	Obsolete part, 10mm
16	(962260)	1	• Sleeve	Obsolete part, 11mm
17	(962269)	1	• Sleeve	Obsolete part, 12mm
18	(962261)	1	• Sleeve	Obsolete part, 13mm
19	(962270)	1	• Sleeve	Obsolete part, 14mm
20	(962271)	1	• Sleeve	Obsolete part, 15mm
21	(962262)	1	• Sleeve	Obsolete part, 17mm
22	(962263)	1	• Sleeve	Obsolete part, 19mm
23	(962264)	1	• Sleeve	Obsolete part, 22mm
24	(962267)	1	• Sleeve	Obsolete part, 30mm



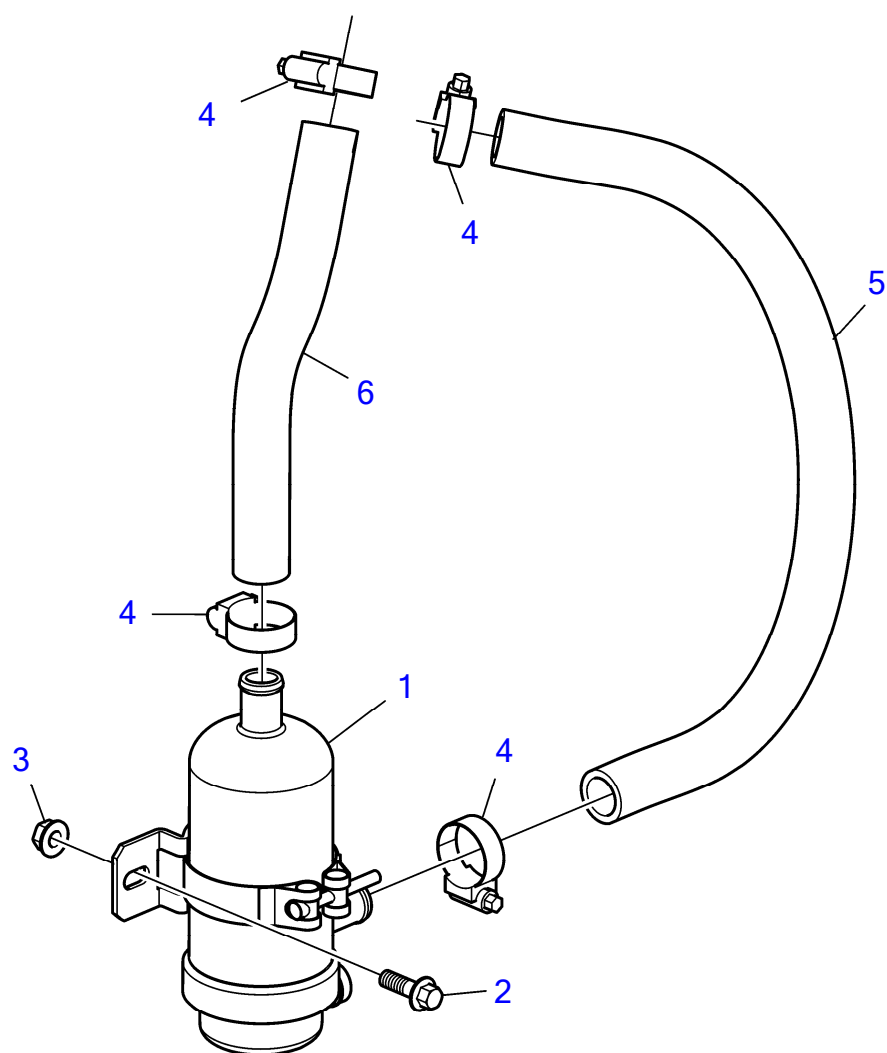
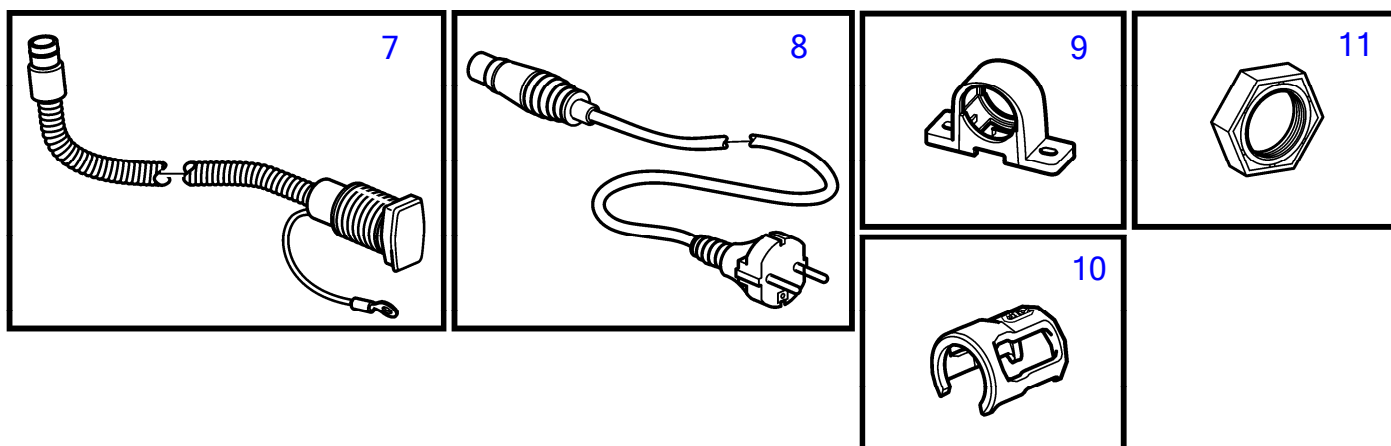
Ref	Part No.	Qty	Description	Notes
1	3803840	1	Compressor, exch	
2		1	• Nut	
3	8131848	1	Gear	
4	948977	1	O-ring	
5	20390470	1	Inlet pipe	
6	984733	2	Flange screw	
7	1546531	2	Lock brace	
8	979270	2	Hose nipple	
9	946652	X	Rubber hose	L=230mm
10	943472	6	Hose clamp	
11	976923	1	Hose nipple	
12	946652	X	Rubber hose	L=670mm
13	952637	1	Clamp	
14	952637	2	Clamp	
15	984735	3	Flange screw	
16	848229	2	Spacer sleeve	
17	965560	1	Bracket	
18	949747	3	Clamp	
19	990950	2	Flange lock nut	
20	946502	1	Flange screw	
21	3808338	1	Coolant pipe	
22	946652	X	Rubber hose	
23	3808375	1	Coolant pipe	SN-2016094478
	22769772	1	Coolant pipe	SN2016094479-
24	984735	2	Flange screw	
25	984734	1	Flange screw	
26	977639	2	Nipple	
27	977640	1	3-way nipple	
28	977237	1	Hose assembly	
29	953102	2	Stud	
30	979230	3	Flange nut	
31	945081	1	Clamp	
32	471708	2	Rubber moulding	
33	994385	2	Flange screw	
34	3817151	1	Coolant pipe	



90 Engine Heater, Separately Mounted

TAD1641VE, TAD1642VE, TAD1643VE

Ref	Part No.	Qty	Description	Notes
1	3828447	1	Engine heater	220-240V, 750W
	3828643	1	Engine heater	220-240V, 2000W
2	866461	4	Vibration damper	
3	990939	8	Flange nut	
4	1547252	1	Sealing ring	
5	1546531	1	Lock brace	
6	984733	1	Flange screw	
7	3830493	1	Tube	Replaced by pipe 3884715 och hose 943369
	3884715	1	Water pipe	
8	984732	1	Flange screw	
9	943369	X	Rubber hose	L=480mm
10	943369	X	Rubber hose	L=530mm
11	961666	4	Hose clamp	
12	965555	1	Bracket	
13	984734	1	Flange screw	
14	990940	3	Flange nut	
15	945081	2	Clamp	
16	984733	1	Flange screw	
17	829653	1	Spacer sleeve	
18	984737	1	Flange screw	
19	982254	1	Nipple	
20	3587616	1	Pipe	
21	467716	1	Elbow nipple	
22	943268	1	Hose nipple	
23	947627	1	Gasket	
24	23185228	1	Bracket	
25	22859765	2	Flange screw	
26	990940	2	Flange nut	
27	984733	1	Flange screw	
28	943717	1	Clamp	

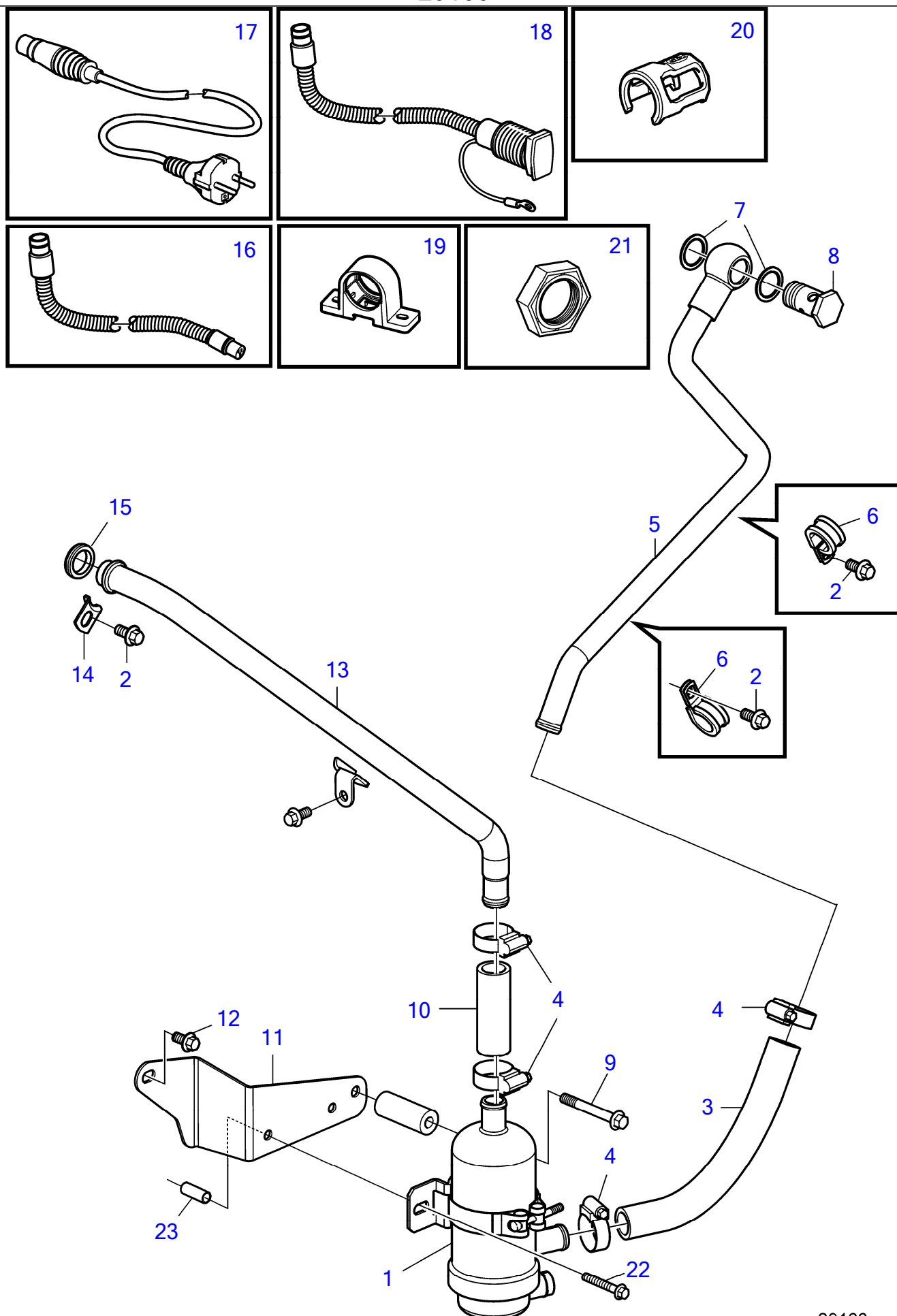


29172

90 Engine Heater, Sepatatelly Monted 220-240V,2000WTAD1641VE, TAD1642VE, TAD1643VE, TAD1650VE, TAD1660VE, TAD1661VE, TAD1662VE,
TAD1640VE-B, TAD1641VE-B, TAD1642VE-B, TAD1660-62VE, TAD1662VE EU5

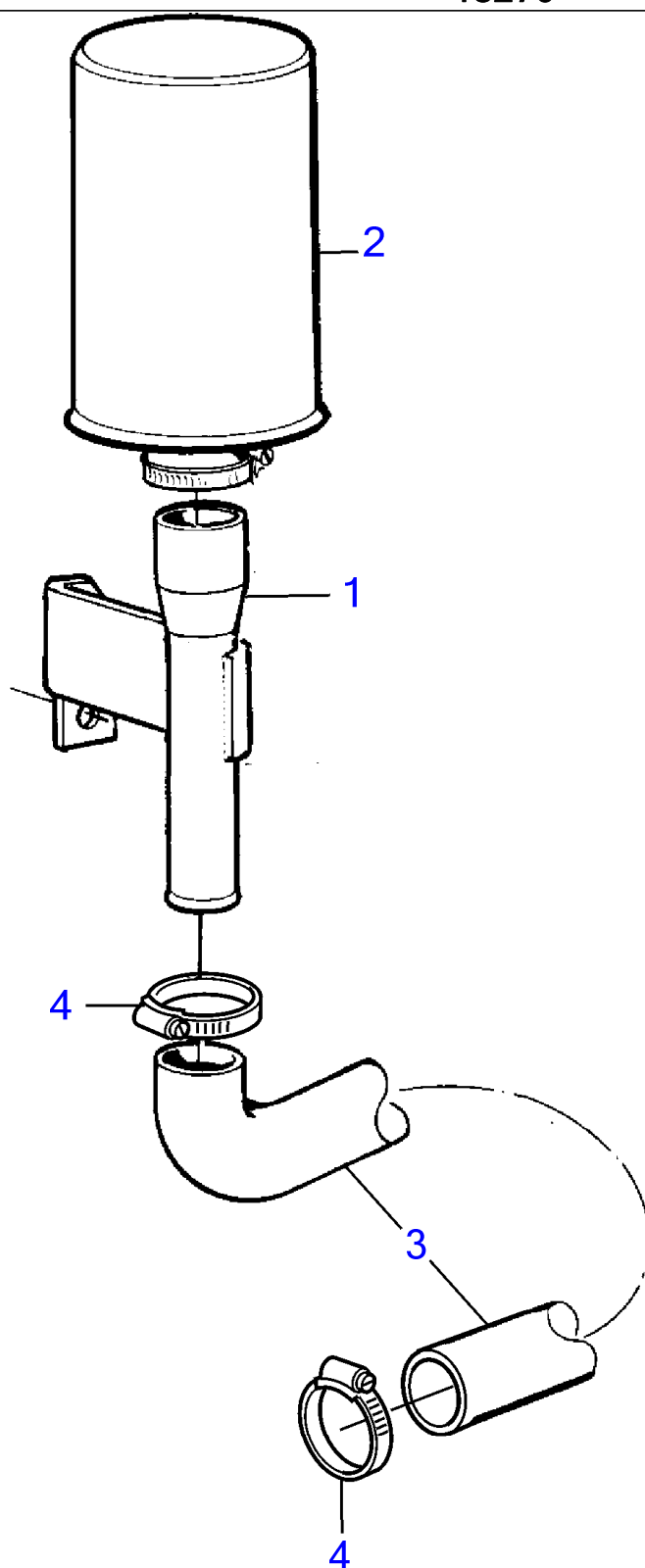
Ref	Part No.	Qty	Description	Notes
1	22310451	1	Engine heater	220-240V, 2000W
2	984735	2	Flange screw	
3	990940	2	Flange nut	
4	994559	4	Hose clamp	
5	943369	X	Rubber hose	
6	943369	X	Rubber hose	
7	22919851	1	Cable	L=1500mm
8	3986351	1	Cable	L=5000mm
9	1079218	1	Retainer	
10	20587131	2	Locking clamp	
11	22988650	1	Locking device	

TAD1641VE, TAD1642VE, TAD1643VE, TAD1650VE, TAD1660VE, TAD1661VE,
TAD1662VE, TAD1640VE-B, TAD1641VE-B, TAD1642VE-B, TAD1660-62VE
29166



90 Engine Heater separately Mounted, 240V-2000WTAD1641VE, TAD1642VE, TAD1643VE, TAD1650VE, TAD1660VE, TAD1661VE, TAD1662VE,
TAD1640VE-B, TAD1641VE-B, TAD1642VE-B, TAD1662VE EU5

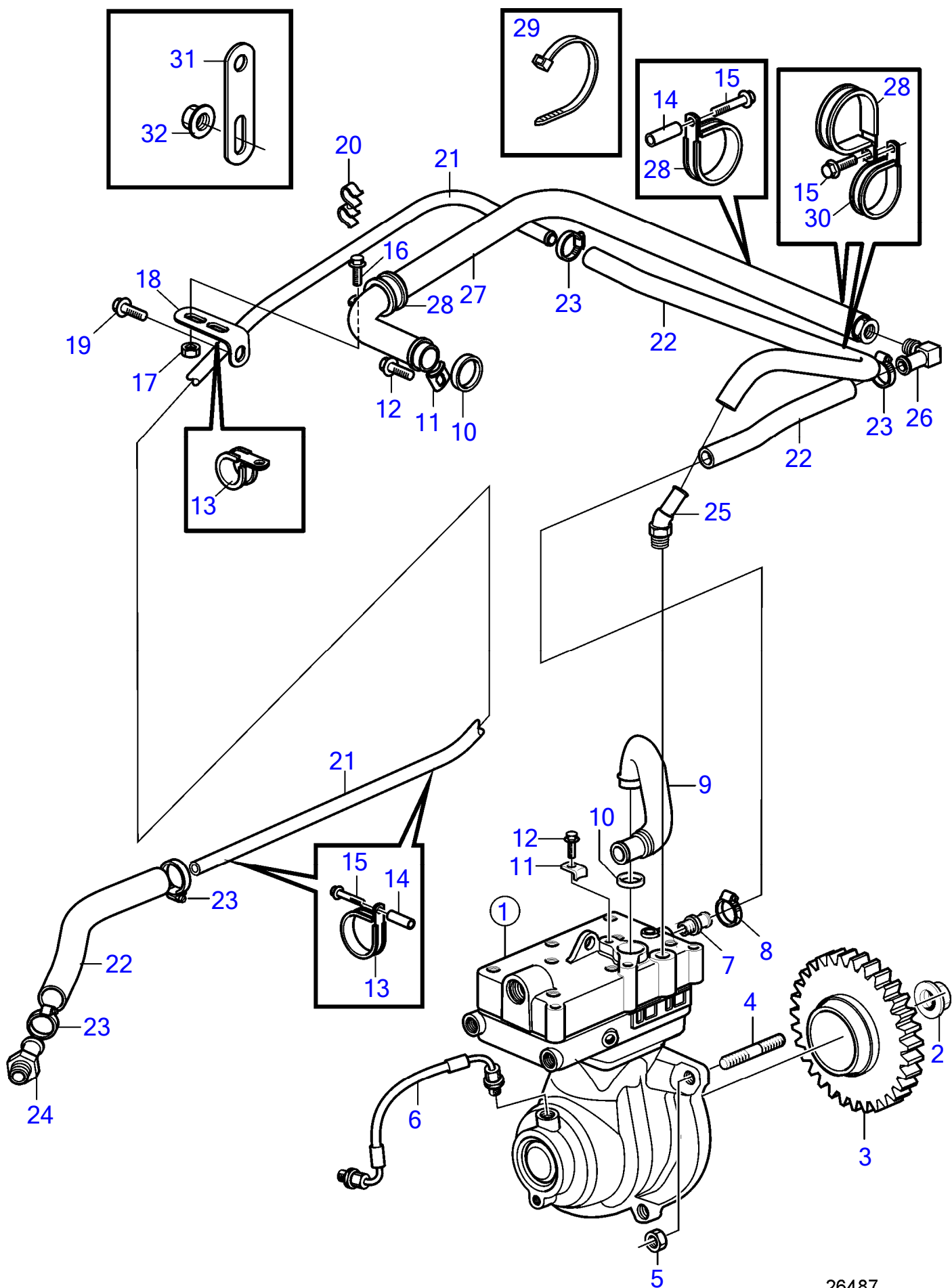
Ref	Part No.	Qty	Description	Notes
1	21578298	1	Engine heater	230V 2000W
2	984733	4	Flange screw	
3	943369	X	Rubber hose	L=225mm
4	994559	4	Hose clamp	
5	22187971	1	Pipe	
6	1545432	2	Attaching clamp	
7	20899253	2	Sealing ring	
8	191157	1	Hollow screw	
9	975103	1	Flange screw	
10	943369	X	Rubber hose	
11	22187988	1	Bracket	
12	984752	1	Flange screw	
13	22187974	1	Pipe	
14	1546531	1	Lock brace	
15	1547252	1	Sealing ring	
16	22919846	1	Extension cable	L=3200MM, Replaced by 23401962
	23401962	1	Extension cable	L=3200MM
17	3986351	1	Cable	L=5000mm
18	22919851	1	Cable	L=1500mm
19	1079218	1	Retainer	
20	20587131	2	Locking clamp	
21	22988650	1	Locking device	
22	984741	2	Flange screw	
23	60112735	2	Spacer sleeve	



90 Air Filter for Air Compressor

TAD1641VE, TAD1642VE, TAD1643VE, TAD1650VE, TAD1660VE, TAD1661VE, TAD1662VE,
TAD1640VE-B, TAD1641VE-B, TAD1642VE-B

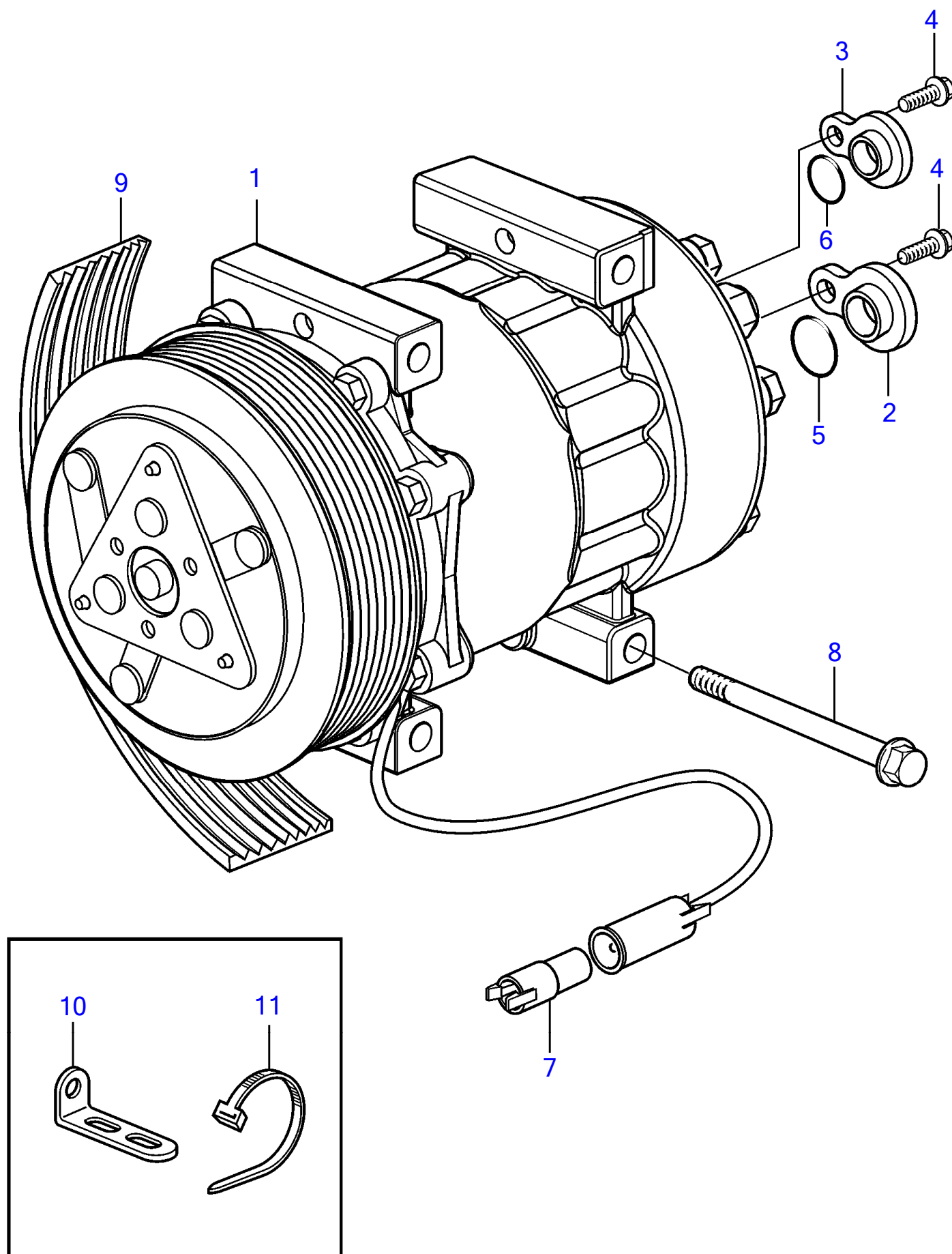
Ref	Part No.	Qty	Description	Notes
1	1094583	1	Bracket	
2	8152010	1	Air filter	
3	967553	X	Hose	L=1000mm
4	994559	2	Hose clamp	



90 Air Compressor Vabco 318. 1 Cylinder

TAD1641VE, TAD1642VE, TAD1643VE, TAD1640VE-B, TAD1641VE-B, TAD1642VE-B

Ref	Part No.	Qty	Description
1	22040500	1	Air compressor
			· parts not sold separately
2		1	· Nut
3	8131848	1	Gear
4	953102	3	Stud
5	979230	3	Flange nut
6	990424	1	Hose assembly
7	976923	1	Hose nipple
8	994557	1	Hose clamp
9	20390470	1	Inlet pipe
10	471708	2	Rubber moulding
11	1546531	2	Lock brace
12	946440	2	Flange screw
13	949747	3	Clamp
14	848229	2	Spacer sleeve
15	948217	4	Flange screw
16	945444	1	Flange screw
17	945408	1	Flange nut
18	965560	1	Bracket
19	946502	1	Flange screw
20	9194404	1	Retainer
21	3808338	1	Coolant pipe
22	946652	X	Rubber hose
23	994557	4	Hose clamp
24	976923	1	Hose nipple
25	976553	1	Hose nipple
26	979270	1	Hose nipple
27	3817151	1	Coolant pipe
28	943717	3	Clamp
29	948211	X	Cable tie
30	945081	1	Clamp
31	965534	1	Bracket
32	945408	1	Flange nut



90 AC-Compressor

TAD1660VE, TAD1661VE, TAD1662VE

Ref	Part No.	Qty	Description	Notes
1	21184142	1	Air conditioning com	
2	3175916	1	Block	I.D=15mm (3962722)
3	3175914	1	Block	I.D=11mm (3980417)
4	984734	2	Flange screw	
5	20443761	1	O-ring	
6	20443759	1	O-ring	
7	1307035	1	Housing	
8	965184	4	Flange screw	
9	20464710	1	V-ribbed belt	
10	965553	1	Bracket	
11	948211	X	Cable tie	

Ref	Part No.	Qty	Description	Notes
1	3886754	6	Cylinder liner kit	(3589668)
	3886753	1	• Piston ring kit	
	20520607	1	• Sealing ring kit	
			• Bulletin p-21-3-104	Cylinder Liner
1	8131232	1	• Piston pin	
	945483	2	• Snap ring	
		1	• Cylinder liner	
		1	• Piston	
	3886753	6	Piston ring kit	
		1	• Piston ring	
		1	• Compression ring	
		1	• Oil scraper ring	
	20520607	6	Sealing ring kit, cylinder liner	
			• Bulletin p-21-3-104	Cylinder Liner
1		1	• Sealing ring	
		1	• Sealing ring	
		1	• Sealing ring	
3	20586595	7	Main bearing kit	SN-002476., Std
	20578851	7	Main bearing kit	SN002477-., Std
	20586596	7	Main bearing kit	SN-002476., O.S=0,25mm
	20700881	7	Main bearing kit	SN002477-., O.S=0,25mm
	20586597	7	Main bearing kit	SN-002476., O.S=0.50mm
	20700882	7	Main bearing kit	SN002477-., O.S=0.50mm
	(20586598)	7	Main bearing kit	Obsolete part, SN-002476., O.S=0,75mm
	(20700885)	7	Main bearing kit	Obsolete part, SN002477-., O.S=0,75mm
	20586599	7	Main bearing kit	SN-002476., O.S=1,00mm
	20700886	7	Main bearing kit	SN002477-., O.S=1,00mm
	(20586600)	7	Main bearing kit	Obsolete part, SN-002476., O.D=1,25mm
	(20700887)	7	Main bearing kit	Obsolete part, SN002477-., O.S=1,25mm
4	20578853	7	Main bearing kit	SN002477- Bearing no 7., Std
	20700890	7	Main bearing kit	SN002477- Bearing no 7., O.S=0,25mm
	20700891	7	Main bearing kit	SN002477- Bearing no 7., O.S=0.50mm
	(20700892)	7	Main bearing kit	Obsolete part, SN002477- Bearing no 7., O.S=0,75mm
	20700893	7	Main bearing kit	SN002477- Bearing no 7., O.S=1,00mm
	(20700895)	7	Main bearing kit	Obsolete part, SN002477- Bearing no 7., O.S=1,25mm
	20586602	6	Big-end bearing kit	Std
	20586603	6	Big-end bearing kit	O.S=0,25mm
	20586604	6	Big-end bearing kit	O.S=0.50mm
	(20586605)	6	Big-end bearing kit	Obsolete part, O.S=0,75mm
	20586606	6	Big-end bearing kit	O.S=1,00mm
	(20586607)	6	Big-end bearing kit	Obsolete part, O.D=1,25mm
	270929	1	Thrust washer kit	Std
	270930	1	Thrust washer kit	O.S=0,10mm
	(270931)	1	Thrust washer kit	Obsolete part, O.S=0,20mm
	270932	1	Thrust washer kit	O.S=0,30mm
	276630	1	Camshaft bearing kit, camshaft	Std
	276631	1	Camshaft bearing kit, camshaft	O.S=0,25mm
	276632	1	Camshaft bearing kit, camshaft	O.S=0.50mm
	276633	1	Camshaft bearing kit, camshaft	O.S=0,75mm
	3184068	1	Bearing housing, camshaft	SN-2016010030
	3184012	1	• Bearing housing, camshaft	SN-2016010030
	3184015	5	• Bearing housing, camshaft	SN-2016010030
	3184018	1	• Bearing housing, camshaft	SN-2016010030
	20503200	1	Camshaft bearing kit	Std
	(20503201)	1	Camshaft bearing kit	Obsolete part, O.S=0,25mm
	(20503202)	1	Camshaft bearing kit	Obsolete part, O.S=0.50mm
	(20503203)	1	Camshaft bearing kit	Obsolete part, O.S=0,75mm
	20523555	1	Shim	TH=0,2mm
	20523556	1	Shim	TH=0,3mm
	20523557	1	Shim	TH=0,5mm

Ref	Part No.	Qty	Description	Notes
	85104134	6	Copper sleeve kit, fuel injector	
	3589674	1	De-carbonizing kit, decarbonizing	
	20736230	1	• Sealing strip	
	8131799	24	• Valve stem seal	
	20536487	6	• O-ring	(3165747)
5	3886448	1	Overhaul kit, reconditioning	
	20578853	7	• Main bearing kit	
	270929	1	• Thrust washer kit	
	20586602	6	• Big-end bearing kit	
	3589675	1	• Overhaul gasket kit	
	3589673	1	• Gasket kit	
	21313541	1	• Cylinder head gasket	
	21006103	6	• Camshaft bearing kit	
	3886446	1	• Gasket kit	
	20736230	1	• Sealing strip	
	21006109	1	• Camshaft bearing kit	
	3886754	6	• Cylinder liner kit	
	3840397	1	Overhaul kit, cylinder head	
	20735572	12	• Inlet valve	
	20513285	12	• Exhaust valve	
	8170995	48	• Valve collet	
	20916916	24	• Valve guide	
	3965955	12	• Valve seat	
	8131798	12	• Valve seat	
	(21160724)	1	Overhaul kit, camshaft, rocker arms	Obsolete part, SN-2016010024
	3829188	1	• Camshaft	
	20888119	6	• Rocker arm	
	20888104	6	• Rocker arm	
	21161745	6	• Rocker arm	
	(21160725)	1	Overhaul kit, camshaft, rocker arms	Obsolete part, SN2016010025-
	20894565	1	• Camshaft	
	20888119	6	• Rocker arm	
	20887766	6	• Rocker arm	
	21161745	6	• Rocker arm	
6	3589670	1	Gasket kit, inlet, exhaust pipe	
	20479613	1	• Seal	Obsolete part
	477314	2	• Gasket	
	975675	2	• O-ring	
	949647	2	• O-ring	
	20744865	6	• Gasket	(8131215)
	11158143	2	• Sealing ring	
	1161231	1	• Sealant	
	3589673	1	Gasket kit, connection, turbo	Replaced by 23416780
	23416780	1	Gasket kit	
	20784537	1	• Plane gasket	(470939)
	420641	1	• Plane gasket	
	20707685	1	• Plane gasket	
	469601	1	• Rubber moulding	
	1547255	1	• Sealing ring	
	948980	1	• O-ring	
7	23416780	1	Gasket kit, Turbo	
	469601	1	• Rubber moulding	
	20784537	1	• Plane gasket	
	21875781	1	• Gasket	
	20707685	1	• Plane gasket	
	948980	1	• O-ring	
	968052	1	• O-ring	
	21940615	1	• Sealing ring	
	22206133	1	• Gasket	
8	3589675	1	Overhaul gasket kit, reconditioning	
	21513804	1	• Sealing strip	

Ref	Part No.	Qty	Description	Notes
	11996	7	• Gasket	
	11998	5	• Gasket	
	1543578	1	• Sealing ring	
	1547252	3	• Sealing ring	
	1677370	2	• Sealing ring	
	18813	1	• Gasket	
	21423788	1	• Sealing ring	
	21497512	1	• Gasket	
	20526428	1	• Sealing ring	
	20551483	1	• Sealing ring	
	20579690	4	• Sealing ring	
	21780376	4	• Sealing ring	(421629)
	20799996	1	• Sealing ring	(425137)
	469846	3	• Sealing ring	
	471708	1	• Rubber moulding	
	3979639	2	• Plane gasket	
	4804167	1	• Gasket	
	21415427	1	• Rubber moulding	
	20734156	1	• Sealing strip	
	20815558	1	• Sealing strip	
	8131154	1	• Seal	
	8131970	2	• Seal	
	21185132	2	• Seal	
	943177	1	• O-ring	
	944126	1	• O-ring	
	947281	7	• Gasket	
	947627	2	• Gasket	
	947629	3	• Gasket	
	992065	2	• O-ring	
	949187	2	• O-ring	
	949722	1	• O-ring	
	949656	3	• O-ring	
	949659	3	• O-ring	
	955982	6	• O-ring	
	968208	1	• O-ring	
	20852765	22	• Sealing ring	
	20852764	14	• Sealing ring	
	20852762	4	• Sealing ring	
	21420336	1	• Connection pipe	
	20723207	1	• Sealing ring	
	20381352	1	• Sealing ring	
	1675066	2	• Sealing ring	
	1547255	1	• Sealing ring	
	18677	2	• Gasket	
	969011	12	• Gasket	
	974673	1	• O-ring	
	975675	1	• O-ring	
	977030	1	• O-ring	
	979099	1	• Gasket	
	982721	2	• Gasket	
	984127	1	• O-ring	
	85108352	1	• Crankshaft seal	SN-2016118292
	22191895	1	• Crankshaft seal	SN2016118293-
	11994	2	• Gasket	

Ref	Part No.	Qty	Description	Notes
1	40005838	1	Overhaul kit, reconditioning	
	20578851	6	• Main bearing kit	
	20578853	1	• Main bearing kit	
	270929	1	• Thrust washer kit	
	20586602	6	• Big-end bearing kit	
	3589673	1	• Gasket kit	
	20725045	1	• Cylinder head gasket	
	3886446	1	• Gasket kit	
	20736230	1	Sealing strip	
	3589675	1	• Overhaul gasket kit	
	21006103	6	• Camshaft bearing kit	
	20756108	1	• Camshaft bearing kit	
	(3886756)	1	Overhaul kit, cylinder head	Obsolete part
	20739057	12	• Inlet valve	
	20513285	12	• Exhaust valve	
	8170995	48	• Valve collet	
	20916916	24	• Valve guide	
	3965955	12	• Valve seat, intake	
	8131798	12	• Valve seat, exhaust	
	85104134	6	• Copper sleeve kit, fuel injector	
	20966749	6	Cylinder liner kit	
		1	• Cylinder liner	
	21010337	1	• Piston ring kit	
	20520607	1	• Sealing ring kit	
			• Bulletin p-21-3-104	Cylinder Liner
1	20521400	1	• Piston pin	
	945483	2	• Snap ring	
		1	• Piston	
	3589667	6	Piston ring kit	
		1	• Piston ring	
		1	• Compression ring	
		1	• Oil scraper ring	
	20520607	6	Sealing ring kit, cylinder liner	
			• Bulletin p-21-3-104	Cylinder Liner
1		1	• Sealing ring	
		1	• Sealing ring	
		1	• Sealing ring	
2			•	
3	20578851	6	Main bearing kit	Std
	20700881	6	Main bearing kit	O.S=0,25mm
	20700882	6	Main bearing kit	O.S=0,50mm
	(20700885)	6	Main bearing kit	Obsolete part, O.S=0,75mm
	20700886	6	Main bearing kit	O.S=1,00mm
4	20578853	1	Main bearing kit	Bearing no 7, Std
	20700890	1	Main bearing kit	Bearing no 7, O.S=0,25mm
	20700891	1	Main bearing kit	Bearing no 7, O.S=0,50mm
	20700893	1	Main bearing kit	Bearing no 7, O.S=1,00mm
	20586602	6	Big-end bearing kit	Std
	20586603	6	Big-end bearing kit	O.S=0,25mm
	20586604	6	Big-end bearing kit	O.S=0,50mm
	20586606	6	Big-end bearing kit	O.S=1,00mm
	270929	1	Thrust washer kit	Std
	270930	1	Thrust washer kit	O.S=0,10mm
	(270931)	1	Thrust washer kit	Obsolete part, O.S=0,20mm
	270932	1	Thrust washer kit	O.S=0,30mm
	21006103	6	Camshaft bearing kit, camshaft	Std, Bearing housing 1-6
	21006109	1	Camshaft bearing kit, camshaft	Std, Bearing housing, rear
	20523555	1	Shim	TH=0,2mm
	20523556	1	Shim	TH=0,3mm
	20523557	1	Shim	TH=0,5mm
	3589670	1	Gasket kit, inlet, exhaust pipe	

Ref	Part No.	Qty	Description	Notes
	477314	2	• Gasket	
	975675	2	• O-ring	
	949647	2	• O-ring	
	20744865	6	• Gasket	
	11158143	2	• Sealing ring	
	1161231	1	• Sealant	
	3589673	1	Gasket kit, connection, turbo	Replaced by 23416780
	23416780	1	Gasket kit	
	20784537	1	• Plane gasket	
	420641	1	• Plane gasket	
	20707685	1	• Plane gasket	
	469601	1	• Rubber moulding	
	1547255	1	• Sealing ring	
	948980	1	• O-ring	
5	23416780	1	Gasket kit	
	22206133	1	• Gasket	
	469601	1	• Rubber moulding	
	20784537	1	• Plane gasket	
	21875781	1	• Gasket	
	20707685	1	• Plane gasket	
	948980	1	• O-ring	
	968052	1	• O-ring	
	21940615	1	• Sealing ring	
6	3589675	1	Overhaul gasket kit, reconditioning	
	21513804	1	• Sealing strip	
	11994	2	• Gasket	
	11996	7	• Gasket	
	11998	5	• Gasket	
	1543578	1	• Sealing ring	
	1547252	3	• Sealing ring	
	1677370	2	• Sealing ring	
	18813	1	• Gasket	
	21423788	1	• Sealing ring	
	21497512	1	• Gasket	
	20526428	1	• Sealing ring	
	20551483	2	• Sealing ring	
	20579690	1	• Sealing ring	
	21780376	4	• Sealing ring	
	20799996	1	• Sealing ring	(425137)
	469846	3	• Sealing ring	
	471708	1	• Rubber moulding	
	3979639	2	• Plane gasket	
	4804167	1	• Gasket	
	8131070	1	• Sealing strip	
	20734156	1	• Sealing strip	
	20815558	1	• Sealing strip	
	8131154	1	• Seal	
	8131970	2	• Seal	
	21185132	2	• Seal	
	943177	1	• O-ring	
	944126	1	• O-ring	
	947281	7	• Gasket	
	947627	2	• Gasket	
	947629	3	• Gasket	
	992065	2	• O-ring	
	949187	2	• O-ring	
	949722	1	• O-ring	
	949656	3	• O-ring	
	949659	3	• O-ring	
	955982	6	• O-ring	
	968208	1	• O-ring	
	20852765	22	• Sealing ring	
	20852764	14	• Sealing ring	
	20852762	4	• Sealing ring	
	21420336	1	• Connection pipe	
	20381352	1	• Sealing ring	
	1675066	1	• Sealing ring	

Ref	Part No.	Qty	Description	Notes
	1547255	1	• Sealing ring	
	18677	2	• Gasket	
	969011	12	• Gasket	
	974673	1	• O-ring	
	975675	1	• O-ring	
	977030	1	• O-ring	
	979099	1	• Gasket	
	982721	2	• Gasket	
	984127	1	• O-ring	
	85108352	1	• Crankshaft seal	SN-2016118292
	22191895	1	• Crankshaft seal	SN2016118293-

Ref	Part No.	Qty	Description	Notes
1	21254035	6	Cylinder liner kit	
	20819869	1	• Piston ring kit	
1	20520607	1	• Sealing ring kit	
			• Bulletin p-21-3-104	Cylinder Liner
1	945483	1	• Piston pin	
		2	• Snap ring	
1		1	• Cylinder liner	
		1	• Piston	
1	20819869	6	Piston ring kit	
		1	• Compression ring	
1		1	• Compression ring	
		1	• Oil scraper ring	
		1	Oil scraper ring	
1	20520607	6	Sealing ring kit, cylinder liner	
			• Bulletin p-21-3-104	Cylinder Liner
1		1	• Sealing ring	
		1	• Sealing ring	
1		1	• Sealing ring	
1	20578851	6	Main bearing kit	Std
	20700881	6	Main bearing kit	US=0,25mm
1	20700882	6	Main bearing kit	US=0,50mm
	(20700885)	6	Main bearing kit	Obsolete part, US=0,75mm
1	20700886	6	Main bearing kit	US=1,00mm
	(20700887)	6	Main bearing kit	Obsolete part, US=1,25mm
1	20578853	1	Main bearing kit	Std, Bearing no 7
	20700890	1	Main bearing kit	US=0,25mm, Bearing no 7
1	20700891	1	Main bearing kit	US=0,50mm, Bearing no 7
	(20700892)	1	Main bearing kit	Obsolete part, US=0,75mm, Bearing no 7
1	20700893	1	Main bearing kit	US=1,00mm, Bearing no 7
	(20700895)	1	Main bearing kit	Obsolete part, US=1,25mm, Bearing no 7
1	20586602	6	Big-end bearing kit	Std
	20586603	6	Big-end bearing kit	US=0,25mm
1	20586604	6	Big-end bearing kit	US=0,50mm
	(20586605)	6	Big-end bearing kit	Obsolete part, US=0,75mm
1	20586606	6	Big-end bearing kit	US=1,00mm
	(20586607)	6	Big-end bearing kit	Obsolete part, US=1,25mm
1	270929	1	Thrust washer kit	Std
	270930	1	Thrust washer kit	US=0,10mm
1	(270931)	1	Thrust washer kit	Obsolete part, US=0,20mm
	270932	1	Thrust washer kit	US=0,30mm
1	21006103	6	Camshaft bearing kit	Std
	21006109	1	Camshaft bearing kit	Std
1		6	Bearing housing, camshaft	
	21042355	1	Bearing housing, camshaft	Obsolete part
1	20523555	1	Shim	TH=0,2mm
	20523556	1	Shim	TH=0,3mm
1	20523557	1	Shim	TH=0,5mm
1	85124276	6	Copper sleeve kit, fuel injector	
	20536487	1	• O-ring	
1	21261987	1	• Washer	
			• Bulletin P-21-1-2	New Copper Sleeves to the Unit Injectors
1	3589674	1	De-carbonizing kit, decarbonizing	
	20736230	1	• Sealing strip	
1	8131799	24	• Valve stem seal	
	20536487	6	• O-ring	(3165747)
1	21509878	1	Overhaul kit	
	20578853	7	• Main bearing kit	
1	270929	1	• Thrust washer kit	
	20586602	6	• Big-end bearing kit	

Ref	Part No.	Qty	Description	Notes
	3589675	1	• Overhaul gasket kit	
	3589673	1	• Gasket kit	
	20725045	1	• Cylinder head gasket	
	21006103	6	• Camshaft bearing kit	
	3886446	1	• Gasket kit	
	20736230	1	Sealing strip	
	21006109	1	• Camshaft bearing kit	
	21254035	6	• Cylinder liner kit	
	3840397	1	Overhaul kit, cylinder head	SN-2016010024
	20735572	12	• Inlet valve	
	20513285	12	• Exhaust valve	
	8170995	48	• Valve collet	
	21067953	24	• Valve guide	
	3965955	12	• Valve seat	
	8131798	12	• Valve seat	
	3886521	1	Overhaul kit	SN2016010025-SN-2016074098
	20739057	12	• Inlet valve	
	20513285	12	• Exhaust valve	
	8170995	48	• Valve collet	
	21632997	24	• Valve guide	
	20709467	12	• Valve seat	
	20527407	12	• Valve seat	
	21351717	6	• Injector sleeve	
			• Bulletin P-21-1-2	New Copper Sleeves to the Unit Injectors
1	20924435	18	• Valve stem seal	
	22890696	6	• Valve stem seal	
	23303179	1	Overhaul kit	SN2016074099-
	20739057	12	• Inlet valve	
	20513285	12	• Exhaust valve	
	8170995	48	• Valve collet	
	21632997	24	• Valve guide	
	22059584	12	• Valve seat	
	21780358	12	• Valve seat	
	21351717	6	• Injector sleeve	
			• Bulletin P-21-1-2	New Copper Sleeves to the Unit Injectors
1	20924435	18	• Valve stem seal	
	22890696	6	• Valve stem seal	
	(21160724)	1	Overhaul kit, camshaft, rocker arms	Obsolete part, SN-2016010024
	3829188	1	• Camshaft	
	21160989	6	• Rocker arm	
	20888104	6	• Rocker arm	
	21282816	6	• Rocker arm	
	(21160725)	1	Overhaul kit, camshaft, rocker arms	Obsolete part, SN2016010025-
	20894565	1	• Camshaft	
	21160989	6	• Rocker arm	
	21282818	6	• Rocker arm	
	21282816	6	• Rocker arm	
	3886446	1	Gasket kit, inlet, exhaust pipe	
	20563945	1	• Seal	
	1161231	1	• Sealant	
	3979639	2	• Plane gasket	
	975675	2	• O-ring	
	949647	2	• O-ring	
	21352841	6	• Gasket	
	20938964	2	• Sealing kit	
	3589673	1	Gasket kit, connection, turbo	Replaced by 23416780
	23416780	1	Gasket kit, Turbo	
	20784537	1	• Plane gasket	
	420641	1	• Plane gasket	
	20707685	1	• Plane gasket	
	469601	1	• Rubber moulding	
	1547255	1	• Sealing ring	
	948980	1	• O-ring	

Ref	Part No.	Qty	Description	Notes
	23416780	1	Gasket kit, Turbo	
	22206133	1	• Gasket	
	469601	1	• Rubber moulding	
	20784537	1	• Plane gasket	
	21875781	1	• Gasket	
	20707685	1	• Plane gasket	
	948980	1	• O-ring	
	968052	1	• O-ring	
	21940615	1	• Sealing ring	
	3589675	1	Overhaul gasket kit, reconditioning	
	21513804	1	• Sealing strip	
	11994	2	• Gasket	
	11996	7	• Gasket	
	11998	5	• Gasket	
	1543578	1	• Sealing ring	
	1547252	3	• Sealing ring	
	1677370	2	• Sealing ring	
	18813	1	• Gasket	
	21423788	1	• Sealing ring	
	21497512	1	• Gasket	
	20526428	1	• Sealing ring	
	20551483	2	• Sealing ring	
	20579690	1	• Sealing ring	
	21780376	4	• Sealing ring	
	20799996	1	• Sealing ring	
	469846	3	• Sealing ring	
	471708	1	• Rubber moulding	
	3979639	2	• Plane gasket	
	4804167	1	• Gasket	
	21415427	1	• Rubber moulding	
	20734156	1	• Sealing strip	
	20815558	1	• Sealing strip	
	8131154	1	• Seal	
	8131970	2	• Seal	
	21185132	2	• Seal	
	943177	1	• O-ring	
	944126	1	• O-ring	
	947281	7	• Gasket	
	947627	2	• Gasket	
	947629	3	• Gasket	
	992065	2	• O-ring	
	949187	2	• O-ring	
	949722	1	• O-ring	
	949656	3	• O-ring	
	949659	3	• O-ring	
	955982	6	• O-ring	
	968208	1	• O-ring	
	20852765	22	• Sealing ring	
	20852764	14	• Sealing ring	
	20852762	4	• Sealing ring	
	21420336	1	• Connection pipe	
	20723207	1	• Sealing ring	
	20381352	1	• Sealing ring	
	1675066	1	• Sealing ring	
	1547255	1	• Sealing ring	
	18677	2	• Gasket	
	969011	12	• Gasket	
	974673	1	• O-ring	
	975675	1	• O-ring	
	977030	1	• O-ring	
	979099	1	• Gasket	
	982721	2	• Gasket	
	984127	1	• O-ring	
	85108352	1	• Crankshaft seal	SN-2016118292
	22191895	1	• Crankshaft seal	SN2016118293-

Description	Notes
Long Block, Exchange	TAD1641VE, TAD1642VE, TAD1643VE
Long Block, Exchange	TAD1650VE
Long Block, Exchange	TAD1660VE, TAD1661VE, TAD1662VE
Cylinder Head SN-2016010024	TAD1641VE, TAD1642VE
Cylinder Head SN2016010025-	TAD1641VE, TAD1642VE, TAD1643VE, TAD1660VE, TAD1661VE, TAD1662VE, TAD1640VE-B
Cylinder Head	TAD1650VE
Valve Cover	TAD1641VE, TAD1642VE, TAD1643VE, TAD1660VE, TAD1661VE, TAD1662VE, TAD1640VE-B
Valve Cover	TAD1650VE
Cylinder Block SN-2016010024	TAD1641VE, TAD1642VE
Cylinder Block SN2016010025-	TAD1641VE, TAD1642VE, TAD1643VE, TAD1660VE, TAD1661VE, TAD1662VE, TAD1640VE-B
Cylinder Block	TAD1650VE
Adapter Flywheel and Flywheelhousing SAE 0	TAD1641VE, TAD1642VE, TAD1643VE, TAD1660VE, TAD1661VE, TAD1662VE
Flywheel Housing	TAD1641VE, TAD1642VE, TAD1643VE, TAD1660VE, TAD1661VE, TAD1662VE, TAD1640VE-B
Flywheel Housing	TAD1650VE
Flywheel Housing Allison 5000/6000	TAD1641VE, TAD1642VE, TAD1643VE, TAD1650VE, TAD1660VE, TAD1661VE, TAD1662VE
Valve Mechanism. Standard	TAD1641VE, TAD1642VE, TAD1643VE
Valve Mechanism for VCB	TAD1650VE
Valve Mechanism. Standard	TAD1660VE, TAD1661VE, TAD1662VE
Valve Mechanism for VCB	TAD1660VE, TAD1661VE, TAD1662VE
Valve Mechanism for VCB	TAD1640VE-B, TAD1641VE-B, TAD1642VE-B
Timing Gear	TAD1641VE, TAD1642VE, TAD1643VE, TAD1660VE, TAD1661VE, TAD1662VE, TAD1640VE-B
Timing Gear	TAD1650VE
Camshaft	TAD1641VE, TAD1642VE, TAD1643VE
Camshaft	TAD1650VE
Camshaft Standard	TAD1660VE, TAD1661VE, TAD1662VE
Camshaft Standard	TAD1660VE, TAD1661VE, TAD1662VE
Camshaft for VCB	TAD1640VE-B, TAD1641VE-B, TAD1642VE-B
Camshaft Standard	TAD1640VE-B, TAD1641VE-B, TAD1642VE-B
Crank Mechanism	TAD1641VE, TAD1642VE, TAD1643VE
Crank Mechanism	TAD1650VE
Crank Mechanism	TAD1660VE, TAD1661VE, TAD1662VE, TAD1640VE-B, TAD1641VE-B, TAD1642VE-B
Flywheel Allison 5000/6000 transmission	TAD1643VE, TAD1650VE, TAD1660VE, TAD1661VE, TAD1662VE, TAD1640VE-B, TAD1641VE
Engine Mounting and Frame	TAD1641VE, TAD1642VE, TAD1643VE, TAD1660VE, TAD1661VE, TAD1662VE
Engine Mounting and Frame	TAD1641VE, TAD1642VE, TAD1643VE, TAD1660VE, TAD1661VE, TAD1662VE, TAD1640VE-B
Engine Mounting	TAD1650VE
Engine Frame for HD Cooling	TAD1643VE, TAD1660VE, TAD1661VE, TAD1662VE, TAD1640VE-B, TAD1641VE-B, TAD1642VE-B

Description	Notes
Lubricating System	TAD1641VE, TAD1642VE, TAD1643VE, TAD1660VE, TAD1661VE, TAD1662VE, TAD1640VE-B
Lubricating System	TAD1650VE
Lubricating Oil System with Aluminum Sump	TAD1660VE, TAD1661VE, TAD1662VE, TAD1640VE-B, TAD1641VE-B, TAD1642VE-B
Extended Dipstick for Aluminum Sump	TAD1641VE, TAD1642VE, TAD1643VE, TAD1650VE, TAD1660VE, TAD1661VE, TAD1662VE, TAD1640VE-B
Oil Filter Housing and Oil Filter, Remote Mounted. Components	TAD1641VE, TAD1642VE
Oil Filter Housing and Oil Filter	TAD1641VE, TAD1642VE, TAD1643VE, TAD1660VE, TAD1661VE, TAD1662VE, TAD1640VE-B
Oil Filter Housing and Oil Filter, Remote Mounting SN-2016095500	TAD1641VE, TAD1642VE, TAD1643VE, TAD1640VE-B, TAD1641VE-B, TAD1642VE-B
Oil Filter Housing and Oil Filter, Remote Mounting SN2016095501-	TAD1641VE, TAD1642VE, TAD1643VE, TAD1640VE-B, TAD1641VE-B, TAD1642VE-B
Oil Filter Housing and Oil Filter	TAD1650VE
Oil Drain Pump and Installation Parts. For aluminium sump	TAD1641VE, TAD1642VE, TAD1643VE
Oil Drain Pump and Installation Parts, Engine Mounted	TAD1650VE
Oil Drain Pump and Installation Parts, Engine Mounted	TAD1660VE, TAD1661VE, TAD1662VE

Description		Notes
Fuel System, Venting SN2016045623-2016838881	TAD1641VE, TAD1642VE, TAD1643VE	
Fuel System SN2016008441- SN2016045622	TAD1641VE, TAD1642VE, TAD1643VE	
Fuel System SN-2016008440 Fuel System, Venting SN2016045623-2016838881	TAD1641VE, TAD1642VE, TAD1643VE TAD1641VE, TAD1642VE, TAD1643VE, TAD1660VE, TAD1661VE, TAD1662VE	
Fuel System, Venting SN2016838882-	TAD1641VE, TAD1642VE, TAD1643VE, TAD1660VE, TAD1661VE, TAD1662VE	
Fuel System	TAD1650VE	
Fuel System	TAD1650VE	
Fuel System, Alternative Mounting	TAD1660VE, TAD1661VE, TAD1662VE	
Fuel Filter Housing, Components	TAD1660VE, TAD1661VE, TAD1662VE	
Fuel System	TAD1660VE, TAD1661VE, TAD1662VE, TAD1640VE-B, TAD1641VE-B, TAD1642VE-B	
Fuel Filter, Components SN2016045623-	TAD1641VE, TAD1642VE, TAD1643VE	
Fuel Filter, Components SN-2016045622	TAD1641VE, TAD1642VE, TAD1643VE	
Fuel Pump	TAD1641VE, TAD1642VE, TAD1643VE, TAD1650VE, TAD1660VE, TAD1661VE, TAD1662VE	
Fuel Cleaner/ Water Separator	TAD1641VE, TAD1642VE, TAD1643VE, TAD1650VE, TAD1660VE, TAD1661VE, TAD1662VE, TAD1663VE	
Fuel Cleaner / Water Separator, Twin. Classifiable Fuel System. Later Production	TAD1641VE, TAD1642VE, TAD1643VE, TAD1650VE, TAD1660VE, TAD1661VE, TAD1662VE, TAD1663VE	
Fuel Cleaner/ Water Separator, Single. Classifiable Fuel System	TAD1641VE, TAD1642VE, TAD1643VE, TAD1650VE, TAD1660VE, TAD1661VE, TAD1662VE, TAD1663VE	
Fuel Cleaner/ Water Separator, Twin.	TAD1641VE, TAD1642VE, TAD1643VE	
Air Filter for Fuel Tank	TAD1641VE, TAD1642VE, TAD1643VE	
Fuel Valve	TAD1641VE, TAD1642VE, TAD1643VE, TAD1650VE, TAD1660VE, TAD1661VE, TAD1662VE, TAD1663VE	
Unit Injector	TAD1641VE, TAD1642VE	
Unit Injector	TAD1643VE	
Unit Injector	TAD1650VE	
Unit Injector	TAD1660VE, TAD1661VE, TAD1662VE, TAD1640VE-B, TAD1641VE-B, TAD1642VE-B	

Description	Notes
Intake and Exhaust Manifold SN-2016103090	TAD1641VE, TAD1642VE, TAD1643VE
Intake and Exhaust Manifold SN2016103091-	TAD1641VE, TAD1642VE, TAD1643VE
Starter Element	TAD1641VE, TAD1642VE, TAD1643VE, TAD1660VE, TAD1661VE, TAD1662VE
Intake and Exhaust Manifold SN-2016103090	TAD1650VE
Intake and Exhaust Manifold SN2016103091-	TAD1650VE
Intake and Exhaust Manifold Heat Shield for Exhaust Manifold and Valve Cover	TAD1660VE, TAD1661VE, TAD1662VE, TAD1640VE-B, TAD1641VE-B, TAD1642VE-B TAD1641VE, TAD1642VE, TAD1643VE, TAD1640VE-B, TAD1641VE-B, TAD1642VE-B
Heat Protection for Turbocharger	TAD1660VE, TAD1661VE, TAD1662VE
SCR. Level Sensor. Heater	TAD1641VE, TAD1642VE, TAD1643VE
SCR. Hoses for Urea Installation	TAD1641VE, TAD1642VE, TAD1643VE, TAD1640VE-B, TAD1642VE-B
SCR. Hoses for Urea Installation	TAD1660VE, TAD1661VE, TAD1662VE
Kit for Non Volvo Penta Tank SCR	TAD1660VE, TAD1661VE, TAD1662VE
Pump Unit SCR, Components	TAD1660VE, TAD1661VE, TAD1662VE
AdBlue/DEF Tank 40L	TAD1660VE, TAD1661VE, TAD1662VE
AdBlue/DEF Tank 50L	TAD1660VE, TAD1661VE, TAD1662VE
SCR. AdBlue/DEF Tank 70L	TAD1660VE, TAD1661VE, TAD1662VE
SCR. Electrical System	TAD1660VE, TAD1661VE, TAD1662VE
SCR. Pump Unit	TAD1660VE, TAD1661VE, TAD1662VE
SCR. Sensors	TAD1660VE, TAD1661VE, TAD1662VE
Installation Components Muffler SCR	TAD1660VE, TAD1661VE, TAD1662VE
Installation Components Muffler SCR	TAD1660VE, TAD1661VE, TAD1662VE
SCR. Level Sensor. Heater	TAD1660VE, TAD1661VE, TAD1662VE
SCR. Electrical System	TAD1660VE, TAD1661VE, TAD1662VE, TAD1662VE EU5
Turbocharger	TAD1641VE, TAD1642VE
Turbocharger	TAD1643VE
Turbocharger	TAD1650VE
Turbocharger	TAD1660VE, TAD1661VE, TAD1662VE, TAD1640VE-B, TAD1641VE-B, TAD1642VE-B
Turbocharger SN-2016098146	TAD1660VE, TAD1661VE, TAD1662VE, TAD1640VE-B, TAD1641VE-B, TAD1642VE-B
Turbocharger SN2016098147-	TAD1660VE, TAD1661VE, TAD1662VE, TAD1640VE-B, TAD1641VE-B, TAD1642VE-B
Heat Shield for Turbo	TAD1641VE, TAD1642VE, TAD1643VE
Crankcase Ventilation, Closed	TAD1641VE, TAD1642VE
Crankcase Ventilation, Closed	TAD1641VE, TAD1642VE
Crankhouse Ventilation	TAD1641VE, TAD1642VE, TAD1643VE
Crankcase Ventilation, Closed	TAD1641VE, TAD1642VE, TAD1643VE
Crankcase Ventilation, Closed	TAD1643VE
Closed Crankcase Ventilation	TAD1650VE
Crankhouse Ventilation	TAD1660VE, TAD1661VE, TAD1662VE
Crankcase Ventilation, open. Extended Outlet	TAD1640VE-B, TAD1641VE-B, TAD1642VE-B
Crankhouse Ventilation	TAD1640VE-B, TAD1641VE-B, TAD1642VE-B
Air Cleaner, Heavy Duty	TAD1641VE, TAD1642VE, TAD1643VE
Air Filter with Installation Components, Medium Duty	TAD1641VE, TAD1642VE, TAD1643VE
Air Filter with Installation Components, Standard	TAD1641VE, TAD1642VE, TAD1643VE
Air Filter with Installation Components, Heavy Duty	TAD1641VE, TAD1642VE, TAD1643VE
Air Filter with Installation Components, Standard, Old	TAD1650VE
Air Filter with Installation Components, Standard, New	TAD1650VE
Air Filter with Installation Components, Standard	TAD1660VE, TAD1661VE, TAD1662VE
Air Filter with Installation Components, Standard	TAD1641VE-B, TAD1642VE-B
Airfilter NO/ With the vaccum switch	TAD1643VE
Muffler	TAD1641VE, TAD1642VE
Muffler, Engine Mounted	TAD1641VE, TAD1642VE, TAD1643VE
Exhaust Pipe	TAD1660VE, TAD1661VE, TAD1662VE
Exhaust Pipe	TAD1640VE-B, TAD1641VE-B, TAD1642VE-B
Exhaust Pipe	TAD1640VE-B, TAD1641VE-B, TAD1642VE-B

Description	Notes
Radiator and Suction Fan.SN-2016079647 Radiator with Connecting Components. Suction Fan. SN-2016028724	TAD1641VE, TAD1642VE TAD1641VE, TAD1642VE
Radiator and Suction Fan.SN-2016079647 Radiator with Connecting Components. Pushing Fan. SN-2016028724	TAD1641VE, TAD1642VE TAD1641VE, TAD1642VE
Radiator and Pushing Fan. SN-2016028724 Radiator Suction Fan. SN2016028725-201679647 Radiator with Connecting Components. Pushing Fan. SN2016028725-2016079647	TAD1641VE, TAD1642VE TAD1641VE, TAD1642VE TAD1641VE, TAD1642VE
Radiator with Connecting Components. Pushing Fan. SN2016028725-2016079647	TAD1641VE, TAD1642VE, TAD1643VE
Radiator and Pushing Fan. SN-2016028724 Cooling system and components HD, SN-2016087664	TAD1641VE, TAD1642VE, TAD1643VE, TAD1650VE, TAD1660VE, TAD1661 TAD1641VE, TAD1642VE, TAD1643VE, TAD1650VE, TAD1660VE, TAD1661
Cooling system and components HD, SN2016087665-	TAD1641VE, TAD1642VE, TAD1643VE, TAD1650VE, TAD1660VE, TAD1661
Radiator grille SN2016079648- Belt Guard	TAD1641VE, TAD1642VE, TAD1643VE, TAD1650VE, TAD1660VE, TAD1661 TAD1641VE, TAD1642VE, TAD1643VE, TAD1660VE, TAD1661VE, TAD1662 TAD1641VE, TAD1642VE, TAD1643VE, TAD1660VE, TAD1661VE, TAD1662
Radiator and Charge Air Cooler with Connections, Suction, SN2016079648-SN2016287576	TAD1641VE, TAD1642VE, TAD1643VE, TAD1660VE, TAD1661VE, TAD1662
Radiator and Charge Air Cooler with Connections, Suction, SN2016287577-	TAD1641VE, TAD1642VE, TAD1643VE, TAD1660VE, TAD1661VE, TAD1662
Radiator and Charge Air Cooler with Connections, Pushing, SN2016079648-SN2016084273	TAD1641VE, TAD1642VE, TAD1643VE, TAD1640VE-B, TAD1641VE-B, TAD
Radiator and Charge Air Cooler with Connections, Pushing, SN2016084274-SN2016087576	TAD1641VE, TAD1642VE, TAD1643VE, TAD1640VE-B, TAD1641VE-B, TAD
Radiator and Suction Fan.SN-2016079647 Radiator with Connection Components. Pusher Fan SN-2016079647	TAD1643VE TAD1650VE
Radiator and Charge Air Cooler, SN-2016079647 Radiator and Charge Air Cooler with Connections, Pushing, SN2016084274-SN2016087576	TAD1650VE TAD1650VE
Radiator and Charge Air Cooler with Connections, Pushing, SN2016087577-	TAD1650VE
Fan with Installation Components, pusher, SN-2016079647	TAD1650VE
Radiator and Charge Air Cooler with Connections, Pushing, SN2016079648-SN2016084273	TAD1650VE
Radiator and Charge Air Cooler with Connections, Pushing, SN2016084274-SN2016087576	TAD1660VE, TAD1661VE, TAD1662VE
Radiator and Charge Air Cooler with Connections, Pushing, SN2016087577-	TAD1660VE, TAD1661VE, TAD1662VE
Radiator and Charge Air Cooler with Connections, Pushing, SN2016087577-	TAD1641VE, TAD1642VE, TAD1643VE, TAD1640VE-B, TAD1641VE-B, TAD
Fan with Installation Components, pusher, SN-2016079647	TAD1660VE, TAD1661VE, TAD1662VE
Visco Fan. Pusher and Suction Fan, SN-2016079647	TAD1660VE, TAD1661VE, TAD1662VE
Radiator and Charge Air Cooler, SN-2016079647	TAD1660VE, TAD1661VE, TAD1662VE
Radiator and Charge Air Cooler, SN-2016079647	TAD1660VE, TAD1661VE, TAD1662VE
Radiator with Connection Components. Pusher Fan SN-2016079647	TAD1660VE, TAD1661VE, TAD1662VE
Radiator and Charge Air Cooler,Pushing,SN2016027048-2016079647	TAD1641VE, TAD1642VE
Radiator and Charge Air Cooler, HD	TAD1641VE, TAD1642VE, TAD1643VE, TAD1650VE, TAD1660VE, TAD1661
Oil Cooler, Engine	TAD1641VE, TAD1642VE, TAD1643VE, TAD1650VE, TAD1640VE-B, TAD16
Radiator and Charge Air Cooler,Pushing.SN2016079648-SN2016084273	TAD1641VE, TAD1642VE, TAD1643VE, TAD1650VE, TAD1640VE-B, TAD16
Radiator and Charge Air Cooler, Pushing, SN2016084274-	TAD1641VE, TAD1642VE, TAD1643VE, TAD1650VE, TAD1640VE-B, TAD16
Radiator and Charge Air Cooler, Suction, SN2016079648-	TAD1641VE, TAD1642VE, TAD1643VE, TAD1660VE, TAD1661VE, TAD1662
Radiator and Charge Air Cooler,Pushing.SN-2016079648-SN2016084273	TAD1660VE, TAD1661VE, TAD1662VE
Radiator and Charge Air Cooler,Pushing.SN2016084274-	TAD1660VE, TAD1661VE, TAD1662VE
Oil Cooler, Engine	TAD1660VE, TAD1661VE, TAD1662VE
Expansion Tank with Installation Components, SN-2016079647	TAD1641VE, TAD1642VE
Expansion Tank with Connection Components HD	TAD1641VE, TAD1642VE, TAD1643VE, TAD1650VE, TAD1660VE, TAD1661
Expansion Tank, SN2016079648-	TAD1641VE, TAD1642VE, TAD1643VE, TAD1650VE, TAD1660VE, TAD1661

Description	Notes
Expansion Tank with Installation Components, SN-2016079647	TAD1643VE, TAD1660VE, TAD1661VE, TAD1662VE
Expansion Tank with Installation Components, SN-2016079647	TAD1650VE
Expansion Tank. Alternative Mounting. HD	TAD1641VE, TAD1642VE, TAD1643VE, TAD1650VE, TAD1660VE, TAD1661VE, TAD1662VE
Expansion Tank. Alternative Mounting	TAD1641VE, TAD1642VE
Protection Cover for Expansion Tank.	TAD1641VE, TAD1642VE, TAD1643VE, TAD1650VE, TAD1640VE-B, TAD1661VE, TAD1662VE
Water Pump, Thermostat Housing and Water Filter, Radiator Cooling	TAD1660VE, TAD1661VE, TAD1662VE
Water Pump and Thermostat Housing, Radiator Cooling	TAD1641VE, TAD1642VE, TAD1643VE, TAD1650VE
Retarder. Thermostat Housing	TAD1641VE, TAD1642VE, TAD1643VE
Belt Transmission and Belt Tensioner Device	TAD1660VE, TAD1661VE, TAD1662VE
Belt Transmission and Belt Tensioner Device Fan, SN2016079648-	TAD1641VE, TAD1642VE, TAD1643VE, TAD1650VE, TAD1660VE, TAD1661VE, TAD1662VE
Fan Shroud, Suction, SN2016079648-	TAD1641VE, TAD1642VE, TAD1643VE
Fan Shroud, Suction, SN2016079648-	TAD1660VE, TAD1662VE, TAD1640VE-B, TAD1641VE-B, TAD1642VE-B
Fan Shroud, Pushing, SN2016079648-	TAD1640VE-B, TAD1641VE-B, TAD1642VE-B
Fan Drive, Suction, SN2016079648-	TAD1641VE, TAD1642VE
Fan Drive, Pushing, SN2016079648-	TAD1641VE, TAD1642VE
Belt System	TAD1641VE, TAD1642VE, TAD1643VE, TAD1650VE, TAD1660VE, TAD1661VE, TAD1662VE
Fan Drive, SN2016079648-	TAD1643VE
Fan Drive, SN2016079648-	TAD1650VE
Fan Drive, SN2016079648-	TAD1660VE, TAD1661VE, TAD1662VE, TAD1640VE-B, TAD1641VE-B, TAD1642VE-B
Fan Drive, Visco, SN2016079648-	TAD1660VE, TAD1661VE, TAD1662VE, TAD1640VE-B, TAD1641VE-B, TAD1642VE-B
Cooling System. Alternative Mounting of Water Filter	TAD1641VE, TAD1642VE, TAD1643VE
Cooling Water Filter	TAD1641VE, TAD1642VE, TAD1643VE

Description	Notes
Accelerator Pedal	TAD1641VE, TAD1642VE, TAD1643VE, TAD1660VE, TAD1661VE, TAD1662VE

Description	Notes
Battery Box	TAD1641VE, TAD1642VE, TAD1643VE, TAD1650VE, TAD1660VE, TAD1661VE, TAD1662VE, TAD1640VE-B
No Alternator	TAD1641VE, TAD1642VE, TAD1643VE, TAD1650VE, TAD1660VE, TAD1661VE, TAD1662VE, TAD1640VE-B
Alternator, Single Mounted 28V 80 Amp	TAD1641VE, TAD1642VE, TAD1643VE, TAD1660VE, TAD1661VE, TAD1662VE, TAD1640VE-B
Alternator, Single Mounted 28V 110 Amp	TAD1650VE, TAD1640VE-B, TAD1641VE-B, TAD1642VE-B
Alternator, Single Mounted 28V 150 Amp	TAD1660VE, TAD1661VE, TAD1662VE, TAD1640VE-B, TAD1641VE-B, TAD1642VE-B
Alternator Components	TAD1660VE, TAD1661VE, TAD1662VE, TAD1640VE-B, TAD1641VE-B, TAD1642VE-B
Converter 24/12V	TAD1641VE, TAD1642VE, TAD1643VE, TAD1650VE, TAD1660VE, TAD1661VE, TAD1662VE, TAD1640VE-B
Starter Motor	TAD1641VE, TAD1642VE, TAD1643VE, TAD1650VE, TAD1660VE, TAD1661VE, TAD1662VE, TAD1640VE-B
Starter Motor, Components	TAD1641VE, TAD1642VE, TAD1643VE
CIU	TAD1641VE, TAD1642VE, TAD1643VE
Control Unit and Connector	TAD1641VE, TAD1642VE, TAD1643VE
Control Panel, DCU	TAD1641VE, TAD1642VE, TAD1643VE
Control Unit and Connector	TAD1650VE, TAD1660VE, TAD1661VE, TAD1662VE, TAD1640VE-B, TAD1641VE-B, TAD1642VE-B
Lcd Display	TAD1641VE, TAD1642VE, TAD1643VE
Lcd Display	TAD1660VE, TAD1661VE, TAD1662VE
Electrical Materials, Instrument EVC-A	TAD1641VE, TAD1642VE, TAD1643VE
Electrical System	TAD1641VE, TAD1642VE, TAD1643VE
Electrical Materials, Instrument	TAD1641VE, TAD1642VE, TAD1643VE
Electrical System	TAD1650VE
Electrical System	TAD1660VE, TAD1661VE, TAD1662VE
Electrical System	TAD1640VE-B, TAD1641VE-B, TAD1642VE-B
Cable DCU	TAD1641VE, TAD1642VE, TAD1643VE, TAD1650VE, TAD1660VE, TAD1661VE, TAD1662VE, TAD1640VE-B
Extension Cable For Coolant Level Sensor	TAD1641VE, TAD1642VE, TAD1643VE, TAD1650VE, TAD1660VE, TAD1661VE, TAD1662VE, TAD1640VE-B
Contacts and Sensors, Analog	TAD1641VE, TAD1642VE, TAD1643VE
Contacts and Sensors	TAD1641VE, TAD1642VE, TAD1643VE, TAD1660VE, TAD1661VE, TAD1662VE, TAD1640VE-B
Contacts and Sensors	TAD1650VE
Electrical Materials	TAD1641VE, TAD1642VE, TAD1643VE, TAD1650VE, TAD1660VE, TAD1661VE, TAD1662VE, TAD1640VE-B
Electrical Materials	TAD1641VE, TAD1642VE, TAD1643VE, TAD1650VE, TAD1660VE, TAD1661VE, TAD1662VE, TAD1640VE-B
Electrical Materials	TAD1641VE, TAD1642VE, TAD1643VE, TAD1650VE, TAD1660VE, TAD1661VE, TAD1662VE, TAD1640VE-B
Electrical Materials	TAD1641VE, TAD1642VE, TAD1643VE, TAD1650VE, TAD1660VE, TAD1661VE, TAD1662VE, TAD1640VE-B
Electrical Materials	TAD1641VE, TAD1642VE, TAD1643VE, TAD1650VE, TAD1660VE, TAD1661VE, TAD1662VE, TAD1640VE-B
Electrical Materials	TAD1641VE, TAD1642VE, TAD1643VE, TAD1650VE, TAD1660VE, TAD1661VE, TAD1662VE, TAD1640VE-B

Description	Notes
Elastic Coupling	TAD1641VE, TAD1642VE, TAD1643VE, TAD1650VE, TAD1660VE, TAD1661VE, TAD1662VE, TAD1663VE
Clutch At Rear End. AP314	TAD1641VE, TAD1642VE, TAD1643VE
Power Take off	TAD1650VE, TAD1660VE, TAD1661VE, TAD1662VE
Clutch AP314, Components	TAD1641VE, TAD1642VE, TAD1643VE

Description	Notes
Tool Kit	TAD1641VE, TAD1642VE, TAD1643VE
Air Compressor Wabco 636	TAD1641VE, TAD1642VE, TAD1643VE
Engine Heater, Separately Mounted	TAD1641VE, TAD1642VE, TAD1643VE
Engine Heater, Sepatately Monted 220-240V,2000W	TAD1641VE, TAD1642VE, TAD1643VE, TAD1650VE, TAD1660VE, TAD1661VE, TAD1662VE, TAD1663VE
Engine Heater separately Mounted, 240V-2000W	TAD1641VE, TAD1642VE, TAD1643VE, TAD1650VE, TAD1660VE, TAD1661VE, TAD1662VE, TAD1663VE
Air Filter for Air Compressor	TAD1641VE, TAD1642VE, TAD1643VE, TAD1650VE, TAD1660VE, TAD1661VE, TAD1662VE, TAD1663VE
Air Compressor Vabco 318. 1 Cylinder	TAD1641VE, TAD1642VE, TAD1643VE, TAD1640VE-B, TAD1641VE-B, TAD1642VE-B
AC-Compressor	TAD1660VE, TAD1661VE, TAD1662VE

Description	Notes
Repair Kits	TAD1641VE, TAD1642VE, TAD1643VE
Repair Kits	TAD1650VE
Repair Kits	TAD1660VE, TAD1661VE, TAD1662VE, TAD1640VE-B, TAD1641VE-B, TAD1642VE-B

Ref	Description
21	Engine
22	Lubricating System
23	Fuel System
25	Intake and Exhaust System
26	Cooling System
27	Controls
30	Electrical System
41	Clutch, Elastic Coupling
90	Miscellaneous Equipment
99	Repair Kits