

# EXCHANGE PARTS

2010

**VOLVO  
PENTA**

# THE VOLVO PENTA EXCHANGE SYSTEM

Volvo Penta stocks exchange engines and components to enable you to quickly get hold of the right engine or drive, technically updated and all ready for fitting. And because the exchange units come as complete kits, you can even do large repair jobs speedily and on the spot. In some cases, the physical installation requirements of some engines will make it necessary to use an exchange engine of the same type as the original engine, in order to avoid modification work. Volvo Penta stocks older types of exchange engines for just such cases.

Each and every Volvo Penta component is manufactured in accordance with Volvo Penta's stringent specifications for materials, tolerances and assembly. We do not just restore the components to "like-new" condition, we modify it to the latest version with the technical improvements that have been introduced in production. That's why the value of Volvo Penta remanufactured components can only be compared to the price of a new genuine component, never with the costs of a repair or a simpler rebuild.

Reuse of components reduces the consumption of the earth's limited resources and also contributes to a cleaner environment.



1. N = Nitro carburized transmission gear  
HT = Induction hardened transmission gear
2. N = If nitro carburized crankshaft, else unmarked
3. X = Mixed mm/unc threads
4. F = Built in Flen
5. 63 = 63-block used instead of 61-block  
73 = 73-block used instead of 71-block  
102 = 102-block used instead of 100-block  
121-122 = 121-122-block used instead of 120-block
6. FR = If functional repaired
7. Unmarked

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90.6

Long block, diesel engines

Engine	Part no.
D3-110I-A, D3-130A-A, D3-130I-A, D3-160A-A, D3-160I-A	3801175 <sup>1)</sup>
D3-110I-B, D3-110I-C, D3-130A-B, D3-130I-B, D3-130A-C, D3-130I-C, D3-160A-B, D3-160I-B, D3-160A-C, D3-160I-C, D3-190A-B, D3-190I-B, D3-190A-C, D3-190I-C	3801151
TAD1240GE, TWD1240VE	3801111 <sup>1)</sup>
TAD1240VE (1241, 1242)	3801101 <sup>1)</sup>
TD610M, TD61A	3801247
TD71A	3801145 <sup>1), 2)</sup>
TWD1031VE	3801146 <sup>1), 3)</sup>
TWD731VE	3801248

- 1) See parts bulletin P-21-0-20.
- 2) 9 holes crankshaft.
- 3) 14 holes crankshaft.



90.7

90.7

Short block, marine diesel engines

Engine	Part no.
31-32	3801097 <sup>1)</sup>
41-43	3801098 <sup>1)</sup>
44-D300	3801099 <sup>2)</sup>
D4	3801135 <sup>3)</sup>
D4	3801251 <sup>4)</sup>
D4-300	3801208 <sup>3)</sup>
D4-300	3801253 <sup>4)</sup>
D6	3801136 <sup>3)</sup>
D6	3801252 <sup>5)</sup>
D6-435D-A, D6-435I-A	3801137 <sup>3)</sup>
D6-435	3801254 <sup>5)</sup>

- 1) 2 valves per cylinder.
- 2) 4 valves per cylinder.
- 3) Gaskets not included.
- 4) SN 2004027000-
- 5) SN 2006032000-

90.7

Short block, industrial engines

Short block consists of: Cylinder block, cylinder liners, crankshaft, connecting rods, big end bearings, main bearings, thrust washer, camshaft, and gaskets for cylinder head, manifold, turbo connection, decarbonizing kit, overhaul kit.

Engine	Part no.
TD60D	3801051 <sup>1)</sup>
TD610M, TD61A, TD61ACE, TD61AW	3801052 <sup>2)</sup>
TD71A, TD71ACE, TD71AW	3801054 <sup>2)</sup>
TD100G	3801057 <sup>3)</sup>
TD121G-87	3801058

- 1) 8 hole crankshaft.
- 2) 6 hole crankshaft.
- 3) 10 hole crankshaft.

90.8

Engines, industry

Engine	Part no.
D100B	3801020
D70B	3801011 <sup>5)</sup>
TAD1030VE	3801069 <sup>9)</sup>
TAD1230V	3801074 <sup>11)</sup>
TAD730VE	3801065 <sup>7)</sup>
TD100A	3801027 <sup>1)</sup>
TD100AG	3801036 <sup>1)</sup>
TD100G	3801038 <sup>8)</sup>
TD100G	3801066 <sup>9)</sup>
TD1030VE	3801067 <sup>9)</sup>
TD120A	3801021
TD120G	3801022
TD121G	3801039 <sup>10)</sup>
TD121G	3801070 <sup>11)</sup>
TD60D	3801005 <sup>1)</sup>
TD610M	3801028 <sup>2)</sup>
TD610M, TD610V	3801087 <sup>4)</sup>
TD61ACE	3801030 <sup>2)</sup>
TD61ACE	3801047 <sup>3)</sup>
TD61AW	3801046 <sup>3)</sup>
TD61AW	3801029 <sup>2)</sup>
TD630ME, TD630VE	3801084 <sup>4)</sup>
TD640VE	3801092 <sup>4)</sup>
TD70B	3801013 <sup>1)</sup>
TD70G	3801014 <sup>1)</sup>
TD71A	3801031 <sup>6)</sup>
TD71A	3801088 <sup>7)</sup>
TD71ACE	3801033 <sup>6)</sup>
TD71ACE	3801050 <sup>7)</sup>
TD71AW	3801032 <sup>6)</sup>
TD71AW	3801049 <sup>7)</sup>
TD730VE	3801063 <sup>7)</sup>
TID71A	3801090 <sup>4)</sup>
TWD1030ME	3801086 <sup>4)</sup>
TWD1031VE	3801091 <sup>4) 12)</sup>
TWD1210V	3801071 <sup>11)</sup>
TWD1211V	3801072 <sup>11)</sup>
TWD1230VE	3801073 <sup>11)</sup>
TWD610V	3801089 <sup>4)</sup>
TWD630ME, TWD630VE	3801085 <sup>4)</sup>
TWD710V	3801061 <sup>7)</sup>
TWD731ME	3801064

- 1) Turbo and starter are NOT included.
- 2) Flywheel, starter and turbo are NOT included in the exchange engine. SN-2061106089, 6 hole flywheel.
- 3) Turbo, starter and flywheel are included in the exchange engine. SN2061106090-, 9 hole flywheel.
- 4) Turbo and flywheel are included in the exchange engine.
- 5) Shallow oil pan.
- 6) Flywheel and starter are NOT included in the exchange engine. SN-2071078953, 6 hole flywheel.
- 7) Turbo and flywheel are included in the exchange engine. SN2071078954-, 9 hole flywheel.
- 8) Turbo and starter are NOT included. SN-2100278924, 10 hole flywheel.
- 9) Turbo, starter and flywheel are included in the exchange engine. SN2100278925-, 14 hole flywheel.
- 10) Turbo and starter are NOT included. SN-2120190308, 10 hole flywheel.
- 11) Turbo, starter and flywheel are included in the exchange engine. SN2120190309-, 14 hole flywheel.
- 12) Starter is NOT included.



90.1

### Cylinder head, gas engines

Cylinder heads for gas engines consist of: Cylinder head, inlet and exhaust valves, valve springs, washers and lock.

Engine	Part no.
230/SP, AQ125B, AQ131	3803167 <sup>1)</sup>
250/SP, AQ151	3803168 <sup>4)</sup>
251DOHC	3803201
AQ115A, AQ130, BB115A, MB20A	3803012
AQ120B, AQ125A	3803018 <sup>1)</sup>
AQ140A, BB140A	3803025 <sup>2)</sup>
AQ145A, BB145A	3803226 <sup>3)</sup>
AQ171 DOHC	3803201 <sup>5)</sup>

1) A camshaft.

2) D camshaft.

3) K camshaft.

4) V camshaft.

5) Piston kit 876236, 4 pcs. are required.



90.3

### Cylinder head, marine diesel engines

#### Cylinder head, marine diesel engines

Cylinder heads for diesel engines consist of: Cylinder head, inlet and exhaust valves, valve springs, washers and lock.

Engine	Part no.
2001 CE	3803160 <sup>2)</sup>
2002 CE	3803161 <sup>3)</sup>
2003 CE	3803162 <sup>4)</sup>
2003T CE	3803163
AD31, AQAD31, MD31, TAMD31, TMD31	3803306
AD31D, AD31L-A, AD31XD, TAMD31D, TAMD31L, TAMD31M, TMD31D	3803306
AD31P, KAD32P, TAMD31P	3803306
AD41A, AQAD41A, AQD41A, D41A, TAMD41A, TMD41A	3803308
AD41D, D41D, KAD43P, KAMD43P, TAMD41D, TAMD41H, TAMD41M, TAMD41P-B, TMD41D	3803308
AQAD30, MD30, TAMD30, TMD30	3803023
AQAD40, AQD40, MD40, TAMD40, TMD40	3803009
AQD70B, TAMD70B	3803031
AQD70C, TAMD70C	3803032
AQD70D, TAMD70D, TAMD70E	3803033
D1-13	3803891
D1-20	3803892
D12C-A MP, D12D-A MP, D12D-B MP, D12D-A MH, D12D-B MH	3803665
D12C-A MP, D12D-A MP, D12D-B MP, D12D-A MH, D12D-B MH, D12D-A MG, D12D-B MG	3803666

Engine	Part no.
D1-30	3803893
D16C-A MG, D16C-A MH	3803926
D2-40	3803894
D3A	3803856
D3B	3803986
D4	3803887
D4	3801255 <sup>5)</sup>
D4-300	3801172
D4-300	3801257 <sup>5)</sup>
D5A-A T, D5A-A TA, D5A T-A, D5A TA-A	3803988
D6	3803888
D6	3801256 <sup>6)</sup>
D6-435	3803916
D6-435	3801258 <sup>6)</sup>
D7A T-A, D7A TA-A, D7C TA-A	3803664
D9 425 HP	3803886
D9A2A, D9A2B 425/500/575	3803841
D11-670	3801219
KAD300, KAMD300	3803543
KAD42A, KAD42B, KAMD42A, KAMD42B, TAMD42B	3803308
KAD44P, KAMD44P	3803543
MD100A, TMD100A	3803037
MD100B	3803038
MD120A, TAMD120A, TMD120A	3803040
MD22L-B	3803317
MD22P-B, TMD22P-B	3803318
MD5A, MD5B, MD5C	3803085 <sup>1)</sup>
MD70B, TMD70B	3803031
MD70C	3803034
TAMD102A, TAMD102D	3803313
TAMD103A	3803500
TAMD120B, TAMD121C, TMD120B, TMD121C	3803041
TAMD122A, TAMD122C, TAMD122D, TMD122A	3803314
TAMD162A, TAMD162A-B, TAMD162B, TAMD162C	3803148
TAMD1623, TAMD1641AE-IFN, TAMD165P-A	3803315
TAMD22P-B	3803319
TAMD41B, TMD41B	3803308
TAMD60A	3803027
TAMD60B, TAMD60C	3803029
TAMD61A, TAMD62A	3803099
TAMD63L, TAMD63P	3803312
TAMD71A, TAMD71B	3803311
TAMD72 EDC, TAMD72A, TAMD72WJ	3803310
TAMD73P-A, TAMD73WJ-A	3803310
TAMD74C-A, TAMD74L-A, TAMD74P-A	3803525
TMD100C, TMD102A	3803039
TMD70C	3803035

1) Pipe 838366 is required.

2) Not for spec. no. 868231.

3) Not for spec. no. 868232.

4) Not for spec. no. 868233.

5) SN 2004027000-

6) SN 2006032000-

## 90.2

## Cylinder head, industrial engines

Engine	Part no.
D100A, TD100A	3803037
D100B	3803038
D120A, TD120A, TD120C	3803040
D70B, TD70B	3803031
D7B	3803525
DH10A	3803402
T(A)D420VE	3801232 <sup>3)</sup>
TAD1030VE, TD1030ME, TD1030VE, TWD1031ME, TWD1031VE	3803287
TAD1231GE, TAD1232GE, TD1210G, TD121G-87, TID121-87, TWD1210G, TWD1211G, TWD1230G	3803314
TAD1250VE, TAD1251VE, TAD1252VE	3803924
TAD1350GE, TAD1351GE, TAD1352GE, TAD1353GE	3801265
TAD1630G, TAD1630P, TID162AP, TWD1630V-ICFN	3803315
TAD1630G, TAD1630V, TWD1630G, TWD1630V	3803288
TAD1631G	3803316
TAD1640/41/42GE	3801139
TAD1640-42GE, TWD1643VE	3801264
TAD1640GE, TAD1641GE, TAD1642GE (SN=10025-)	3803926
TAD1640GE, TAD1642GE, TAD1643V, TAD1643GE	3803636
TAD520GE, TAD520VE, TD520GE, TD520VE	3803988
TAD520GE, TD520GE	3803526
TAD620VE	3803958 <sup>2)</sup>
TAD620VE	3801233 <sup>4)</sup>
TAD650VE	3801133
TAD660VE	3803974
TAD720VE, TAD721VE, TAD722VE, TD720GE, TAD720GE, TD720VE	3803664
TAD721GE, TAD722GE	3803965
TAD730G, TAD730P	3803310
TAD732GE	3801234
TAD734GE	3801161
TAD734GE	3801237
TAD740GE	3803525
TAD740VE, TWD740VE	3803390
TAD750VE, TAD760VE	3803975
TAD940/941/942/943VE (SNXXXXX15996-)	3803937
TAD940GE, TAD940VE, TAD941VE, TAD942VE, TAD943VE (SN-XXXXX15995)	3803656
TAD941GE	3803657
TAD950VE, TAD951VE, TAD952VE	3803914
TD100G, TID100K	3803039
TD120G, TD120HP-86, TD121G, TD121K, TID120F, TID121F, TID121L	3803041 <sup>a)</sup>
TD30A	3803023
TD40A	3803009
TD420VE, TAD420VE	3803962 <sup>1)</sup>
TD60A	3803027
TD60B, TD60D, TID60D	3803029
TD610G, TD610M, TD61A, TD61ACE, TD61AW, TID61, TWD610G	3803099
TD630ME, TD630VE, TWD630ME, TWD630VE	3803312
TD640VE	3803551
TD70G, TID70G	3803033
TD710G, TD71A, TD71ACE, TD71AW, TID71, TWD710G, TWD710P	3803311
TD730ME, TD730VE, TWD730ME, TWD731ME, TWD731VE	3803286
THD102	3803403
TID162A, TWD1620G	3803148
TID162AP, TWD162C	3803148
TWD1240VE, TAD1241VE, TAD1242VE	3803667

a) For TD121 with basic engine no. 497382 and 497384.

1) SN -10155363

2) SN 01031804-10128117

3) SN 10155364-

4) SN 10128118-

## 90.33

## Injector pump, industrial engines

Engine	Part no.
D70CHC	3803762
DH10A	3803676
TAD1030G	3803749
TAD1030GE	3803756
TAD1030P	3803721
TAD1031GE	3803755
TAD1032GE	3803757 <sup>k)</sup>
TAD1230G	3803710
TAD1230G	3803750
TAD1230G	3803726
TAD1230V	3803730
TAD1230V	3803701
TAD420VE, TD420VE, TAD620VE	3803950
TAD520GE, TAD720GE, TAD721GE, TAD722GE	3803967 <sup>l)</sup>
TAD520VE, TAD720VE, TAD721VE, TAD520GE, TAD720GE, TAD721GE, TAD722GE, TAD722VE	3803987 <sup>l), m)</sup>
TAD520VE, TAD720VE, TAD721VE, TAD722VE	3803967 <sup>k)</sup>
TAD650/660VE	3801277 <sup>n)</sup>
TAD650VE, TAD660VE	3801103
TAD730G	3803716
TAD730V	3803717
TAD734GE	3801169
TAD734GE	3801283 <sup>o)</sup>
TAD740GE	3803746
TAD741GE	3803754
TAD750VE, TAD760VE	3803941
TD 100GG-87	3803703
TD100G	3803742
TD100HP	3803700
TD1010G	3803708 <sup>a)</sup>
TD1010G	3803724 <sup>b)</sup>
TD1030ME	3803736
TD120HP, TD121GGP, TD121G, TD121	3803682
TD121G-87 (SN-2120238631)	3803686
TD121G-87, TWD1210/1211/1230V, TWD1230VE, TWD1231VE	3803734 <sup>l)</sup>
TD121G-87, TWD1230ME, TD121G-87, TWD1210/1211/1230V, TWD1230VE, TWD1231VE	3803740 <sup>e)</sup>
TD121G-87, TWD1230ME, TWD1210/1211/1230V, TWD1230VE, TWD1231VE	3803743 <sup>d)</sup>
TD164KAE	3803761
TD520GE, TD520VE PP	3803515
TD60D	3803685
TD610M	3803714
TD61A	3803690
TD61AG	3803705
TD61AG-87	3803689
TD61AP-87	3803688
TD61AW	3803696
TD630ME	3803735
TD630VE	3803732
TD640VE	3803747
TD710G	3803707
TD71A	3803691
TD71AW	3803699
TD71AW-87	3803687
TD71FS/FSQ	3803678
TD720GE, TD720VE PP	3803515
TD730ME	3803735
TD73E	3803679
TD73ES	3803680
THD100, RAIL PACK	3803831
THD102K, KD	3803675
THD102KB	3803677
TID100KG-87	3803704
TID121GG-87	3803832
TID121L	3803693
TID121L	3803695
TID162AG	3803697
TID162G, TID162GP, TID162AP, TID162APB, TWD1630G	3803728
TID60D	3803683
TID61AG	3803706
TID71A-87	3803692 <sup>l)</sup>
TID71A-87	3803731 <sup>l)</sup>
TID71AG, TID71AG-87	3803772
TMD121C, TAMD121C, TAMD121D, TAMD122C, TAMD122D	3803763

Engine	Part no.
TWD1010G	3803709 <sup>i)</sup>
TWD1010G	3803725
TWD1030ME	3803738
TWD1031VE, Electronic	3803752
TWD1031VE, Mechanical	3803741
TWD1210G	3803711
TWD1211G	3803748
TWD16030P, TAD1630P, TWD1630V, TAD1630V	3803718
TWD1620G, TWD1630G, TAD1630G, TAD1630GE, TAD1631G, TAD1631GE	3803751
TWD1620G, TWD1630G, TAD1630G, TAD1630GE, TAD1631G, TAD1631GE	3803759
TWD1620G, TWD1630G, TAD1630G, TAD1630GE, TAD1631G, TAD1631GE	3803760
TWD1630P, TAD1630P, TWD1630V, TAD1630V	3803729
TWD610P	3803727
TWD630VE	3803722
TWD710P	3803739
TWD710P, TID71AG	3803702
TWD730ME	3803719
TWD731ME	3803737
TWD740GE	3803745
TWD740VE	3803744

- a) Fuelpump 863232  
b) Fuelpump 865850  
c) Fuelpump 864851  
d) TD121G-87 SN-38631, TWD1230ME, SN38632  
e) TD121G-87 SN-38631, TD121G-87 SN38632-  
f) TD121G-87 SN38632-  
g) Mechanical  
h) Electrical  
f) SN-2071093147  
g) SN2071093148-  
h) 269 kW/1800 rpm, 294 kW/1800 rpm  
i) 212 kW  
j) GE - tier 1, stage 1  
k) VE - stage 2  
l) Tier 2, stage 2  
n) SN 10477411-, not use together with 3803941  
o) SN 10555142-, not use together with 3801169

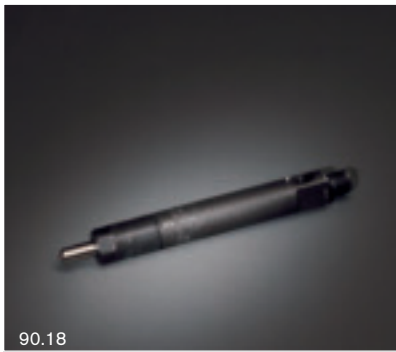
## 90.33

### Injector pump, marine diesel engines

Engine	Part no.
D1-13	3803896
D1-20	3803899
D1-30	3803900
D2-40	3803901
D5A-T, D5A-TA, D5A-T GEN, D5A-TA GEN, D7A-T, D7A-TA, D7C-TA, D7A-T GEN, D7A-TA GEN, D7C-TA GEN	3803967
TAMD102A	3803787
TAMD102C	3803765
TAMD102D	3803788
TAMD103A	3803758
TAMD103A, 199 kW/1800 rpm	3803797
TAMD103A, 225 kW/1500 rpm	3803798
TAMD103A, 255 kW/1800 rpm	3803796
TAMD103A, 280 kW/1800 rpm	3803799
TAMD103A, 287 kW/1800 rpm	3803795
TAMD122A	3803802
TAMD122A HD	3803789
TAMD122P-A	3803781 <sup>a)</sup>
TAMD122P-A	3803786 <sup>h)</sup>
TAMD122P-A	3803790
TAMD122P-A, 247 kW/1500 rpm	3803814
TAMD122P-A, 280 kW/1800 rpm	3803812
TAMD122P-A, 280 kW/1800 rpm	3803815
TAMD122P-A, 294 kW/1900 rpm	3803813
TAMD162A, TAMD162B, TAMD162C, TAMD162C-B	3803767
TAMD162A, TAMD162B, TAMD162C, TAMD162C-B	3803770
TAMD162A, TAMD162B, TAMD162C, TAMD162C-B, TID162AG, TID162AGP, TID162APB	3803768
TAMD162C	3803804
TAMD162C-C	3803784
TAMD162C-C	3803785
TAMD162C-C	3803803
TAMD165A, 370 kW	3803866
TAMD165A, 380 kW	3803864
TAMD165A, 397 kW	3803862
TAMD165A, 404 kW	3803860
TAMD165A, 413 kW	3803867

Engine	Part no.
TAMD165A, 426 kW	3803863
TAMD165A, 428 kW	3803865
TAMD165A, 441 kW	3803861
TAMD165C, 350 kW	3803858
TAMD165C, 375 kW	3803857
TAMD165C, 380 kW	3803859
TAMD165P, 500 kW	3803828
TAMD165P, 551 kW	3803827
TAMD61A	3803773
TAMD62A	3803777
TAMD63L	3803783
TAMD63L	3803794 <sup>c)</sup>
TAMD63L, 173 kW/2500 rpm	3803830
TAMD63P-A	3803793
TAMD71A	3803764
TAMD71B	3803771
TAMD72A	3803779
TAMD72WJ, TAMD73WJ-A	3803782
TAMD74/75	3803801
TAMD74A	3803792 <sup>o)</sup>
TAMD74A	3803780 <sup>d)</sup>
TAMD74A, 175 kW/1800 rpm	3803811
TAMD74A-A, TAMD74A-B, 150 kW/1500 rpm	3803810
TAMD74A-A, TAMD74A-B, 154 kW/1800 rpm	3803809
TAMD74A-A, TAMD74A-B, 160 kW/2000 rpm	3803807
TAMD74A-A, TAMD74A-B, 184 kW/2100 rpm	3803806
TAMD74A-A, TAMD74A-B, 210 kW/2200 rpm	3803800
TAMD74A-B, 275 kW/2200 rpm	3803805
TAMD74P	3803791
TAMD75P-A	3803829
TD121G-87, TWD1210/1211/1230V, TWD1230VE, TWD1231VE, TD121GP-87, TWD121P, TWD1211P, TAD1230P	3803720 <sup>a)</sup>
TMD102A, TMD122A	3803778 <sup>b)</sup>
TMD121C, TAMD121C, TAMD121D, TAMD122C, TAMD122D	3803766
TMD122A, TAMD122A, TAMD122P	3803769
TMD162C	3803774 <sup>i)</sup>
TMD162C	3803775 <sup>j)</sup>
TMD162C	3803776 <sup>k)</sup>
TWD1210G (H)	3803712
TWD1620G, TWD1630G, TAD1630G, TAD1630GE, TAD1631G, TAD1631GE	3803713

- a) TD121G-87 SN38632-  
b) Actuator GAC 275H  
c) SNXXXXX/171159-  
d) SN-XXXXXX/183028  
e) SN-XXXXXX/183029-  
f) SN-XXXX/171158  
g) Fuelpump 866737  
h) Fuelpump 3830918  
i) Fuelpump 864924  
j) Fuelpump 864988  
k) Fuelpump 865277



90.18

**Injector, marine diesel engines**

Engine	Part no.
2001, 2002, 2003, 2003-SOLAS	3803232 <sup>c)</sup>
2002B, 2003B, 2003B-SOLAS	3803237
2003T	3803233
AD31A, AD41A, AQAD31A, AQAD41A, D41A, TAMD31A, TAMD31A-SOLAS, TAMD41A, TAMD41A-SOLAS, TMD31A, TMD41A	3803231 <sup>d)</sup>
AD31B, AD31L-A, AD41B, D41B, TAMD31B, TAMD31L-A, TAMD31M-A, TAMD41B, TAMD41P-A, TMD31B, TMD41B	3803235 <sup>e)</sup>
AD31L-A, TAMD31L, TAMD31M	3803235
AD31P, AD41P-A, KAD43P, KAMD43P, TAMD31P, TAMD41H, TAMD41M, TAMD41P-B	3803238
AQAD30A, AQAD40A, AQAD40B, AQD40A, MD30A, MD40A, TAMD30A, TAMD40A, TAMD40B, TMD30A, TMD40A, TMD40B, TMD40C	3803239
D1-13, D1-20, D1-30	3803927
D2-40	3803928
D2-55, D2-75, MD2040A	3803442
D3 GEN B	3803985
D3-A CYL 1	3801152 <sup>m)</sup>
D3-A CYL 2	3801153 <sup>m)</sup>
D3-A CYL 3	3801154 <sup>m)</sup>
D3-A CYL 4	3801155 <sup>m)</sup>
D3-A CYL 5	3801156 <sup>m)</sup>
D4, D6	3803634
D4B,D6B	3803908
D5A T-A GEN, D7A T-A GEN, D5A T-A, D7A T-A, D5A TA-A, D7A TA-A	3803944 <sup>n), o)</sup>
D5A TA-A, D7A TA-A, D7C TA-A	3803945 <sup>n), o)</sup>
D5A-T GEN, D7A-T GEN	3803944
D5A-TA GEN, D7A-TA GEN, D7C-TA	3803945
D6-435	3801148
KAD300, KAMD300	3803540
KAD300, KAMD300	3803541 <sup>i)</sup>
KAD32P	3803238 <sup>h)</sup>
KAD32P	3803372 <sup>i)</sup>
KAD42A, KAD42B, KAMD42B, TAMD31P-A, TAMD41P-A, TAMD42B	3803238 <sup>h)</sup>
KAD42A, KAMD42A	3803236 <sup>g)</sup>
KAD43P, TAMD44H, TAMD44M, TAMD44P	3803404
KAD44P-M	3803373
KAMD44P	3803373
KAMD44P-B	3803455 <sup>i)</sup>
MD11C, MD11D, MD17C, MD17D	3803229 <sup>h)</sup>
MD120A, TAMD120A, TMD120A	3803249
MD2010, MD2020	3803928
MD2010A, MD2020A	3803440
MD2010D, MD2020D	3803440
MD2030A	3803441
MD22L-A	3803292
MD22P-B	3803293
MD31A	3803234
MD5A, MD5B, MD5C, MD70B, MD7A	3803230 <sup>a)</sup>
MD70B	3803248
TAD121CHC, TAMD121C, TAMD121D, TAMD122C, TAMD122D, TMD122A	3803250
TAD730G, TAMD63P	3803931 <sup>n)</sup>
TAMD102A	3803281
TAMD102A, TAMD102D, TMD102A	3803247
TAMD120B, TD121CHC, TD121CRC	3803245
TAMD122A	3803247
TAMD122P	3803300
TAMD122P-B, TAMD122P-C	3803301
TAMD162A	3803258

Engine	Part no.
TAMD162B	3803586
TAMD162C	3803258 <sup>h)</sup>
TAMD162C	3803868 <sup>l)</sup>
TAMD163P	3803297
TAMD165A-A, TAMD165C-A	3803868
TAMD165A-A, TAMD165C-A, TAMD165P-A	3803868
TAMD165P	3803297
TAMD22P	3803295
TAMD61A, TAMD62A	3803254
TAMD63L	3803510
TAMD63L, TAMD72A	3803257 <sup>o)</sup>
TAMD63P	3803296
TAMD71A	3803255
TAMD71B	3803256
TAMD72A, TAMD72P EDC, TAMD72WJ-A	3803510
TAMD73WJ-A	3803510
TAMD74A-B	3803932
TAMD74C-A, TAMD74L-A, TAMD74P-A	3803454
TAMD75P-A	3803935
TD100CHC, TD100CRC, TMD100C	3803243
TMD120B, TMD120C	3803246
TMD22P	3803294

- a) MD7A (SN 28771-)
- b) MD11C (SN 50989) MD17C (SN 16622)
- c) 2001 (not for engine 868231)2002 (not for engine 868232)
- d) TMD31A, TAMD31A, AQAD31A, AD31A, TAMD31A SOLAS (SN - 2203116853) TMD41A, TAMD41A, TAMD41A SOLAS, D41A, AQAD41A, AD41A (SN - 2204141572)
- e) TAMD41P-A (SN 869053)
- f) KAD42A (SN 868597) TAMD41P-A (SN 869030, 869031, 869032, 869036)
- g) KAD42A (SN 868239, 868243, 868507, 868508)
- h) SN-2203201022
- i) SN-2203201023-
- j) Cyl. No 1
- k) SN -1101057367
- l) SN 1101057368-
- m) With pipe
- n) TAMD63P (SN XXXXX183029-)
- o) TAMD63L (SN -XXXX171158)
- p) D5A TA-A SN 991715-
- q) D7A TA-A SN 977118-
- r) D5A TA-A SN -991714,
- s) D7A TA-A SN -977117

**90.17**

**Injector, industrial engines**

Engine	Part no.
D120A, TAD120AHC, TD120A, TD120AHC	3803249
D70B	3803248
D7B	3803933
DH10A	3803398
TAD1030GE, TAD1030VE	3803280
TAD1032GE	3803936
TAD120BHC, TD120BHC, TD120BRC, TID120FG, TID120FPP, TID121K, TID121K-87, TID121KG, TID121KG-87, TID121KGP-87, TID121KP, TID121KP-87, TID121KPB-87	3803245
TAD120CHC, TD120G, TD120GG	3803246
TAD1230G, TAD1230V	3803282
TAD1231GE, TAD1232GE	3803371
TAD1630GE, TAD1630V, TWD1630G, TWD1630V	3803283
TAD1631GE	3803297
TAD420VE	3803964
TAD420VE	3803964
TAD420VE, TAD620VE	3803952
TAD520GE	3803514
TAD520GE, TAD520VE, TAD720VE, TAD721VE, TAD722VE, TAD720GE, TAD721GE, TAD722GE	3803948
TAD520GE, TAD720GE	3803945
TAD520GE, TAD720GE	3803945 <sup>1)</sup>
TAD530GE, TAD531GE, TAD532GE, TAD730GE, TAD731GE, TAD732GE, TAD733GE	3803948
TAD620VE	3803952 <sup>3)</sup>
TAD620VE	3801291 <sup>4)</sup>
TAD650VE, TAD660VE	3803976
TAD650VE, TAD660VE	3803976
TAD720GE	3803514
TAD720VE, TAD520VE, TD520VE	3803652
TAD720VE, TAD721VE, TAD722VE, TAD520VE, TAD520GE, TAD720GE, TAD721GE, TAD722GE	3803948 <sup>2)</sup>
TAD721GE, TAD722GE	3803948 <sup>1)</sup>
TAD721VE	3803957
TAD721VE	3803957 <sup>1)</sup>



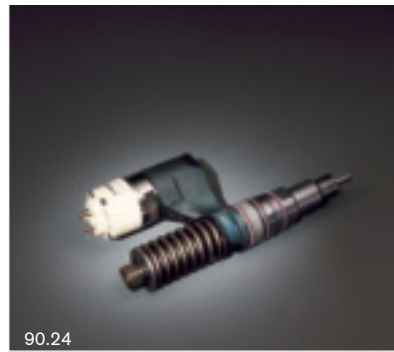
Engine	Part no.
TAD730G	3803296
TAD730VE	3803277
TAD734GE	3801246
TAD740GE, TWD740GE	3803510
TAD741GE	3803934
TAD750VE, TAD760VE	3803977
TAD750VE, TAD760VE	3803977
TD100G-87, TD100GG-87, TD100GGP-87, TD100HP-87, TD100HPB-87, TD1010G, TID100K-87, TID100KG-87, TID100KGP-87, TID100KP-87, TID100KPB-87, TWD1010G	3803243
TD1030VE	3803278
TD1210G	3803245
TD420VE	3803955
TD420VE	3803955
TD520GE	3803513
TD520GE, TD720GE	3803968 2)
TD520VE, TD720VE, TD520GE, TD720GE	3803953 1)
TD520VE, TD720VE, TD520GE, TD720GE	3803953 1)
TD60B, TD60D, TD60D-83	3803244
TD610G, TD61A, TD61AG, TD61AGP, TD61AP, TD61APB, TID61AG, TID61AGP, TWD610G, TWD610P, TWD610V	3803253
TD610M, TD610V, TD61ACE, TD61AW	3803252
TD630ME, TD630VE	3803273
TD640VE	3803273
TD70G, TD70G-83, TID70G	3803240
TD710G, TD71A, TD71GP, TID71AG, TID71AGP, TID71AP, TID71APB, TWD710G, TWD710P, TWD71A, TD71A, TD71ACE, TD71AP, TD71APB, TID71A	3803254
TD71AW	3803252
TD720GE	3803513
TD730ME, TD730VE	3803275
THD102KB	3803399
THD102KD	3803400
TID121L-87, TID121LG, TID121LG-87, TID121LGP-87, TID121LP, TID121LP-87, TID121LPB-87, TWD1210G, TWD1210P, TWD1211G, TWD1211P	3803251
TID162AG, TID162AP, TWD1620G	3803258
TWD1031VE	3803279
TWD1210V, TWD1211V	3803251
TWD1230VE, TWD1231VE	3803281
TWD630ME, TWD630VE	3803274
TWD731ME, TWD731VE	3803276
TWD740VE	3803602

1) Tier 1.

2) Tier 2.

3) SN 00770230-01099383

4) SN 01099384-



90.24

## 90.24

### Unit injector, marine engines

Engine	Part no.
D9A2A, 425, 500, 575	3803843 a)
D9A2A, D9A2B MH	3803848
D9A2B, 425, 500, 575	3803883 b)
D11-670	3801222
D12-C	3803491
D12C-A MP, D12D-A MP, D12D-B MP, D12D-A MH, D12D-B MH	3803917
D16C-A MG, D16C-A MH	3803867

a) SN -7009114518

b) SN 7009114519-

## 90.23

### Unit injector, industrial engines

Engine	Part no.
TAD940GE, TAD942VE, TAD943VE	3803654
TAD940VE, TAD941VE	3803874
TAD941GE	3803655
TAD950VE, TAD951VE, TAD952VE	3803913
TAD1240GE	3803568 1)
TAD1241GE, TAD1242GE	3803570 1)
TAD1241VE, TAD1242VE	3803569 1)
TAD1350GE, TAD1351GE, TAD1352GE	3801229
TAD1353GE	3801267
TAD1640GE, TAD1641VE, TAD1642VE	3803638
TAD1641/1642GE	3803637
TAD1650VE	3801263
TWD1240VE	3803568 1)
TWD1240VE, TAD1241VE, TAD1242VE, TAD1250VE, TAD1251VE, TAD1252VE	3803925
TWD1643 GE	3801144

1) Only available as class 2 and 3. Can be used together with all remaining classes.



90.5

### Turbo charger, marine diesel engines

Engine	Part no.
2003T	3802053
AD31A, AD31B, AD31D, AQAD31A, AQAD31B, TAMD31A, TAMD31B, TAMD31D, TMD31A, TMD31B, TMD31D	3802114 <sup>2)</sup>
AD31A, AD31B, AQAD31A, AQAD31B, D31, KAD32P, TAMD31A, TAMD31B, TMD31A, TMD31B	3802082 <sup>1)</sup>
AD41A, AD41B, AQAD41A, AQAD41B, AQD41A, AQD41B, D41A, D41B, TAMD41A, TAMD41B, TMD41A, TMD41B	3802070 <sup>1)</sup>
AD41D, D41D, KAD42P-A, KAMD42P-A, TAMD41D, TAMD42WJ-A, TMD41D	3802070 <sup>b)</sup>
AQAD30A, TAMD30A, TMD30A	3802020
AQAD40, TAMD40	3802033
AQD40, TMD40	3802003
AQD70D, TAMD70D, TAMD70E	3802014
D11 670	3801221
D12 800	3801134
D12C-A MP	3802116
D12-D MH MG, D12A-MH	3802144
D16MH	3801119
D3 110-160 HP	3801270
D3 190	3801271
D3-B 190	3802167
D4 210	3802150
D4 260	3802149
D4 300	3801173
D5A T-A 1500 rpm	3802172 <sup>1)</sup>
D5A T-A 1900 rpm/72/83 kW	3802171 <sup>1)</sup>
D5A TA-A	3802171
D5A T-TA, D5A T-A	3802173 <sup>1)</sup>
D6 350/370	3802151
D6 280/310	3802152
D6-435	3801138
D7	3802175 <sup>1)</sup>
D7A T-A, D7A T-TA, D7C T-TA	3802176
D7C T-TA 2300 rpm/195 kW	3802177
D9 425	3801115
D9 500/575	3801114
D9A 500/575, (Rating 4/5)	3802147
KAD300, KAMD300	3802125
KAD42A	3802070 <sup>3)e)</sup>
KAD42B	3802070 <sup>3)f)</sup>
KAD44P	3802112
KAMD42A	3802070 <sup>3)c)</sup>
KAMD42A, KAMD42B	3802063
KAMD42B	3802070 <sup>3)d)</sup>
KAMD44P	3802105
TAD121CHC, TAMD121C, TAMD122A, TMD121C, TMD122A	3802018
TAMD102A	3802083
TAMD102D	3802100
TAMD120A	<sup>8)k)</sup>
TAMD120A	3802009 <sup>1)</sup>
TAMD122C, TAMD122D	3802018
TAMD122P, TAMD122P-B, TAMD122P-C	3802101
TAMD162A, TAMD162C	3802104 <sup>10)</sup>
TAMD162C	3802080 <sup>9)</sup>
TAMD163A	3802102
TAMD165P	3802103
TAMD22/SX	3802092
TAMD41D	3802082 <sup>1)a)</sup>
TAMD41H-A	3802081
TAMD60A	3802012 <sup>4)</sup>

Engine	Part no.
TAMD60B	3802012
TAMD60C	3802038
TAMD61A, TAMD62A	3802062 <sup>5)</sup>
TAMD63L	3802097
TAMD63P	3802127
TAMD71A, TAMD71B	3802062 <sup>5)</sup>
TAMD72A	3802068
TAMD72P-A, TAMD73P-A	3802113
TAMD72WJ	3802083
TAMD74A	3802192
TAMD74C-A, TAMD74L-A, TAMD74P-A	3802139
TMD100A	3802004 <sup>b)</sup>
TMD100C, TMD102A	3802021
TMD102A	<sup>7)j)</sup>
TMD103A	3802128
TMD120B, TMD122A	3802018
TMD22/SX	3802091
TMD31L	3802081
TMD70B	3802012 <sup>6)a)</sup>
TMD70C	3802012

- 1) Hollow screw 969299 and 2 gaskets 11994 are required.
- 2) Upgrade turbo for 31A, 31B and 31D. Applies only for 130 HP engine.
- 3) Approved for Lake Constance (Bodensee)
- 4) Replaced by 1 pc 3802012, 1 pc 842317.
- 5) Rubber collar 865367, pipe set 865332 are required.
- 6) Replaced by 1 pc 3802012, 1 pc 843976.
- 7) Replaced by 1 pc 842067, 1 pc 836985.
- 8) Replaced by 1 pc 3802009, 1 pc 842428, 1 pc 842429, 1 pc 842423, 1 pc 424626.
- 9) Note! Only for TAMD162A, TAMD162C power setting below 400 kW.
- 10) Note! Only for TAMD162A, TAMD162C power setting over 400 kW.
- 11) Genset.
- a) SN 868672, 868674, 868675, 868673
- b) TAMD41D (SN 868666, 868667, 868668, 868670, 868671)
- c) SN 868598
- d) SN 868693
- e) SN 868597
- f) SN 868689
- g) SN83030/xxxxx-
- h) SN 65144/xxxxx-
- i) SN - 15085/xxxxx
- j) SN 15086/xxxxx-
- k) SN - 23456/xxxxx
- l) SN 23457/xxxxx-

90.4

### Turbo chargers, industrial engines

Engine	Part no.
D7B	3802129
DH10A	3802107
TAD1030GE, TAD1030VE	3802087
TAD1032GE	3802193
TAD1230G, TAD1230V, TAD1231GE, TAD1232GE	3802089
TAD1240GE	3802135
TAD1241GE, TAD1242GE	3802136
TAD1241VE, TAD1242VE	3802135
TAD1250VE	3802154
TAD1350GE, TAD1351GE, TAD1352GE	3801235
TAD1353GE	3801266
TAD1630GE	3802095
TAD1630V	3802090
TAD1631GE	3802096
TAD1640GE, TAD1641VE, TAD1642VE, TAD1643V	3802140
TAD1641GE, TAD1642GE	3802141
TAD1650VE	3801262
TAD420VE	3802185
TAD520GE	3802131 <sup>1)</sup>
TAD520VE, TAD520GE	3802191 <sup>2)</sup>
TAD520VE, TAD720VE, TAD721VE, TAD722VE	3802181 <sup>1), 3)</sup>
TAD532GE	3801245
TAD620VE	3802184
TAD650VE, TAD660VE	3801140 <sup>3)</sup>
TAD650VE, TAD660VE	3801158 <sup>4)</sup>
TAD720GE	3802133 <sup>1)</sup>
TAD720GE, TAD721GE, TAD722GE, TAD720VE, TAD721VE, TAD722VE	3802178 <sup>2)</sup>
TAD720VE, TD520VE PP	3802179
TAD721VE NO EDC	3802180
TAD722VE	3802189
TAD722VE	3802190
TAD730G, TAD730VE	3802079
TAD734GE	3801163
TAD740GE	3802121
TAD750VE, TAD760VE	3801159 <sup>3)</sup>

Engine	Part no.
TAD750VE, TAD760VE	3801105 <sup>4)</sup>
TAD750VE, TAD760VE	3801261 <sup>4)</sup>
TAD941GE	3802156
TAD94XVE	3803920
TAD95XVE	3801118
TD100A	3802004
TD100G, TD100GG, TD1010G, TWD1010G	3802017
TD1030ME, TD1030VE	3802077
TD120AG, TD120C	3802044
TD120G, TD120GG	3802044
TD1210G, TD121G	3802066
TD121G, TD121GG	3802044
TD420VE	3802186
TD520GE	3802130
TD60A, TD60B	3802019
TD60D	3802019
TD610G, TD61AG, TID61AG	3802048
TD610M, TD610V	3802067
TD61A, TD61ACE	3802049
TD61AW	3802047
TD630ME, TD630VE, TWD610G	3802074
TD640VE	3802122
TD70G	3802013
TD710G	3802093
TD71A, TD71ACE, TD71AG	3802049
TD71AW	3802050
TD720GE	3802132 <sup>4)</sup>
TD730ME, TD730VE	3802075
TD73E, TD73ES	3802106
THD102KB	3802118
THD102KD	3802109
TID100K, TID100KG, TWD1010G	3802017
TID120F, TID120FG	3802071
TID121F, TID121FG	3802071
TID121K-87, TID121KG-87	3802123
TID121L-87, TID121LG, TID121LG-87, TID121LGP-87, TID121LP-87, TWD1210G	3802073
TID162, TWD1620G, TWD1630P, TWD1630V	3802055
TID60D	3802019
TID60DG	3802039
TID70G	3802040
TID71A, TID71AG, TID71APB	3802069 <sup>b)</sup>
TWD1031VE	3802086
TWD1210G	3802073
TWD1210V, TWD1211G, TWD1211V	3802088
TWD1230VE	3802111
TWD1231VE	3802138
TWD1240VE	3802134
TWD1630G	3802094
TWD1643 GE	3801141 <sup>6)</sup>
TWD1643 GE	3801142 <sup>7)</sup>
TWD610V	3802084
TWD630ME, TWD630VE	3802072
TWD710G	3802069
TWD71A	3802085
TWD731VE	3802076
TWD740GE	3802120
TWD740VE	3802137

a) SN 47461/xxxxx-

b) SN xxxxxxxxxxxx/16449-

1) Tier 1

2) Tier 2

3) Low installation

4) High installation

5) Wuxi

6) High pressure

7) Low pressure



90.22

## 90.22

### Circulation pump, marine diesel engines

The circulation pump consists of: Water pump, seals, gaskets, bearings, boss and pulley wheel.

Engine	Part no.
AD31A, AD31B, AQAD31A, TAMD31A, TAMD31B, TMD31A, TMD31B	3803379
AD41A, AD41B, AQAD41A, D41A, D41B, TAMD41A, TAMD41B, TMD41A, TMD41B	3803381
AD41D, D41D, TAMD41D, TMD41D	3803869 <sup>2)</sup>
AQAD40A, AQAD40B, AQD40A, MD40A, TAMD40A, TAMD40B, TMD40A, TMD40B, TMD40C	3803380
AQD70D, MD70C, TAMD70C, TAMD70D, TAMD70E	3803211 <sup>5)</sup>
D100BHC, TD100AHC, TD100CHC	3803214 <sup>6)</sup>
D1-13, D1-20	3803970
D1-30, D2-40	3803972
D4, D6	3803854
D9A2A MG	3803930 <sup>c)</sup>
D9A2A, D9A2B	3803844 <sup>9)</sup>
KAD300, KAMD300	3803869 <sup>4)</sup>
KAD42A, KAMD42A	3803869
KAD42B, KAMD42B, TAMD42B	3803869 <sup>2)a)</sup>
KAD42B, KAMD42B, TAMD42B	3803869 <sup>3)b)</sup>
KAD43P, KAMD43P	3803869 <sup>3)</sup>
KAD44P, KAMD44P	3803869 <sup>4)</sup>
MD100A, MD100B, TMD100A, TMD100C	3803214 <sup>6)</sup>
MD120A, TAMD120A, TAMD121C, TAMD121D, TAMD122 EDC, TAMD122A, TAMD122B, TAMD122C, TAMD122D, TAMD122P, TMD120B, TMD121C, TMD122A	3803213 <sup>8)</sup>
TAMD102A, TAMD102D, TMD102A	3803214 <sup>7)</sup>
TAMD162A, TAMD162B	3803305
TAMD162A, TAMD162B, TAMD162C, TAMD162C-B, TAMD165A-A, TAMD165C-A, TAMD165P-A	3803876
TAMD162C, TAMD163A, TAMD163P	3803305
TAMD165A-A, TAMD165C-A, TAMD165P-A	3803305
TAMD31L, TAMD31M, TAMD31P	3803869
TAMD41B	3803869 <sup>1)</sup>
TAMD41H, TAMD41M, TAMD41P-B	3803869 <sup>2)</sup>
TAMD60A, TAMD60B, TAMD60C	3803215 <sup>5)</sup>
TAMD61A	3803839
TAMD63L, TAMD63P	3803915
TAMD71A, TAMD71B	3803839
TAMD72 EDC, TAMD72B	3803915
TAMD73P-A, TAMD73WJ-A	3803915
TAMD74C-A, TAMD74L-A, TAMD74P-A	3803915

1) For keel cooled engine. Pulley 3588383 and screw 946671 are required.

2) Pulley 3588383 and screw 946671 are required.

3) Pulley 3588385 and screw 947760 are required.

4) Pulley 3588384 and screw 947760 are required.

5) Pulley 2 grooves.

6) For marine engines 3 pcs 955524, 3 pcs 941907, 1 pc 422171 are required.

7) For marine engines 3 pcs 955524, 3 pcs 941907, 1 pc 422171 are required. Pulley 2 grooves.

8) For marine engines 3 pcs. 955524, 3 pcs. 941907, 1 pc. 422171, 1 pc. 846685 are required. Pulley 2 grooves.

9) HE/KC

a) SN -22004208023

b) SN 22004208024

DP-H, 20/233801125

DP-R 22/233801126

c) RC

90.21

**Circulation pump, industrial engines**

The circulation pump consists of: Water pump, seals, gaskets, bearings, boss and pulley wheel.

Engine	Part no.
D100A, D100B, TD100A	3803205
D120A, TD120A	3803206
DH10A	3803391
TAD1030VE, TAD1030G, TD100G, TD1030VE, TWD1031VE	3803415
TAD120AHC, TAD120CHC, TD120AHC, TD120BHC	3803213 <sup>1)</sup>
TAD1230G, TAD1231GE, TAD1232GE, TD1210G, TWD1210G, TWD1211G	3803537
TAD1230V, TD121G, TWD1210V, TWD1211V, TWD1230VE	3803537
TAD1240GE, TAD1241GE, TAD1242GE	3803909
TAD1241VE, TAD1242VE, TWD1240VE	3803909
TAD1350GE, TAD1351GE, TAD1352GE	3801228
TAD1630G, TAD1631G, TWD1630G	3803305
TAD1630V, TWD1630V	3803305
TAD1640, TAD1642, TAD1643GE, D16-C MG MH	3801102
TAD520GE, TD520GE	3803516
TAD620VE	3801236
TAD710G, TD710G, TWD710G	3803839
TAD720GE, TD720GE	3803516
TAD730P, TD71, TD710G, TD71A, TD71ACE, TD71AG, TD71AGP, TD71AP, TD71APB, TD71AW, TID71, TID71AG, TID71AGP, TID71AP, TID71APB, TWD710G, TWD710P	3803839
TAD730VE, TD71A, TD730VE, TID71A, TWD71A, TWD730VE, TWD731VE	3803839
TAD734GE	3801244
TAD740GE, TWD740GE	3803839
TAD940/941GE, TAD940-943VE, TAD950-952VE	3803930
TD100G, TD100G-85, TD100G-85, TD100G-87, TD100GG, TD100GG-87, TD100GP, TD100HP-87, TD100HPB-87, TD100K, TD100KG, TD1010G, TID100K-87, TID100KG-87, TID100KGP-87, TID100KP-87, TWD1010G	3803208
TD1010G, TWD1010G	3803208
TD120G, TD120HP-86, TD121G, TD121G-87, TD121GG, TD121GG-86, TD121GG-87, TD121GGP-87, TD121GP-87, TD121GPB-87, TID121K, TID121K-87, TID121KG, TID121KG-87, TID121KGP-87, TID121KP, TID121KP-87, TID121KPB-87, TID121L-87, TID121LG, TID121LG-87, TID121LP	3803537
TD1210G, TID121LGP-87, TID121LP-87, TID121LPB-87, TWD1030ME, TWD1210G	3803537
TD121CRC	3803206
TD60A, TD60B, TD60D, TD60D-83, TID60D, TID60DG	3803209
TD610G, TD610M, TD61A, TD61ACE, TD61AG, TD61AGP, TD61AGP, TD61AP, TD61APB, TD61AW, TID61AG, TWD610G, TWD610P	3803839
TD610G, TWD610G	3803839
TD610V, TWD610V	3803839
TD630VE, TD640VE, TWD630VE	3803839
TD70G	3803202
TD70G-83, TID70G	3803210
TID162AG, TID162AP, TWD1620G, TWD162G	3803305
TWD1211G, TD122FS, TWD1211P, TAD1230P, TWD1230VE, TWD1231VE, TAD1232GE	3803537
TWD1231VE	3803909

1) For marine engines 3 pcs. 955524, 3 pcs. 941907, 1 pc. 422171, 1 pc. 846685 are required. Pulley 2 grooves.

90.34

**Control unit, SUS**

Drive	Part no.
IPS1-A, EVC-B/B2	Diesel 3803889
IPS1-B/C	Diesel 3801113 <sup>1)</sup>
IPS1-B/C	Diesel 3801290 <sup>2)</sup>
MIFI 3 TO MIFI 4 5.7L-LO	Gas 3801311
MIFI 3 TO MIFI 4 7.4L	Gas 3801320

1) SN -3194005811  
2) SN 3194005812-

90.27

**IPS-drive, complete drive**

SUS not included.

Drive	Part no.	Ratio
IPS1-A	3803836	1.94:1
IPS1-B	3801108	2.08:1
IPS1-B	3801106	1.94:1
IPS1-B	3801107	1.82:1
IPS1-B GAS	3801249	2.40:1
IPS1-C	3801199	1.82:1

90.28

**Upper gear unit, IPS**

SUS not included.

Drive	Part no.	Ratio
IPS1-A	3803834	1.94:1
IPS1-B	3801109	1.82:1, 1.94:1
IPS1-B	3801110	2.08:1
IPS1-B GAS	3801272	2.40:1
IPS1-C	3801202	1.82:1, 1.94:1 <sup>1)</sup>

1) S20/23.

90.29

**Lower gear unit, IPS**

Drive	Part no.
IPS1-A/B/C	3801112 1.82:1
IPS1-A/B/C	3803835 1.94:1, 2.08:1
IPS1-B GAS	3801250 2.40:1

90.16

**Gear box**

Engine	Part no.
RAIL PACK. DH10, VT1605PT	3803384





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