

# Parts catalogue

## F-Line

**VF4.145**  
**VF4.180**  
**VF4.200**



Deze onderdelencatalogus bevat waardevolle informatie voor onderhoud en service aan uw motor.

Wij adviseren U, bij vervanging alleen originele **VETUS** onderdelen toe te passen.

Het typeplaatje bevat informatie over de type-aanduiding, het motornummer en de serie.

Gebruik deze informatie bij bestelling van onderdelen.

This parts'catalogue contains valuable information for maintenance and service over your engine.

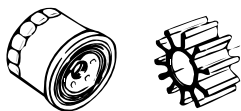
For replacement, we recommend that you use only genuine **VETUS** parts.

The identification tag contains information about model, serial number and series.

Use this information when ordering parts.

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**Reserve kits**  
**Spare parts kit**

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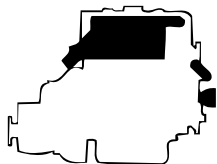
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**Motor**  
**Engine**

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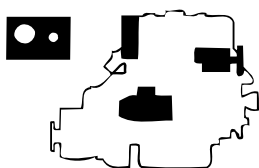
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**Koeling**  
**Cooling**

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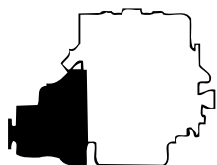
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**Electra, bediening en instrumenten**  
**Electrics, controls, instruments**

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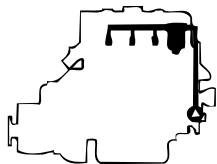
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**Aandrijving**  
**Transmission**

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**Brandstofsysteem**  
**Fuel system**

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Aanhaalmoment 55 Nm  
Tension torque 25 Nm

| M2.02          | M2.04 | M2.06   | M2.C1               | M2.11                  | M2.18 | M2.25 |
|----------------|-------|---------|---------------------|------------------------|-------|-------|
| <b>Motoren</b> |       |         |                     |                        |       |       |
| item           | qty   | part    | benaming            | description            |       |       |
| 1              | 2     | STW6101 | Motorenhaak 10-18   | Engine support PS-10   |       |       |
| 2              | 4     | STW6102 | Bout M10x1,25x60    | Bolt M10x1,25x60       |       |       |
| 3              | 4     | STW6202 | Ring                | Washer                 |       |       |
| 4              | 2     | STW6204 | Plaatsteun          | Plate support          |       |       |
| 5              | 4     | STW6410 | Muur M10x1,5        | Wall M10x1,5           |       |       |
| 6              | 2     | STW6411 | Ring                | Washer                 |       |       |
| 7              | 2     | STW6103 | Chassis KSTELN25V   | Engine Mount KSTELN25V |       |       |
| 8              | 2     | STW6104 | Motorenhaak 10-18   | Engine support PS-10   |       |       |
| 9              | 4     | STW6105 | Bout M12x1,75x60    | Bolt M12x1,75x60       |       |       |
| 10             | 4     | STW6605 | Gegroefde steun M12 | Wedge support M12      |       |       |

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De volledige stuklijst staat op deze pagina.

The full parts list is shown on this page.

Aanhaalmoment 55 Nm  
Tension torque 25 Nm

| M2.02         | M2.04 | M2.06   | M2.C1                     | M2.11                 | M2.18 | M2.25 |
|---------------|-------|---------|---------------------------|-----------------------|-------|-------|
| <b>Pompen</b> |       |         |                           |                       |       |       |
| item          | qty   | part    | benaming                  | description           |       |       |
| 1             | 1     | STW6109 | Zuigpomp                  | Suction pump          |       |       |
| 2             | 1     | STW6127 | O-ring                    | O-ring                |       |       |
| 3             | 4     | STW6128 | Motorenhaak               | Engine support        |       |       |
| 4             | 4     | STW6109 | Ring                      | Washer                |       |       |
| 5             | 4     | STW6205 | Muur M8                   | Wall M8               |       |       |
| 6             | 1     | STW6140 | Breidingspomp M2.04       | Fuel pump M2.04       |       |       |
| 7             | 1     | STW6147 | Breidingspomp M2.04       | Fuel pump M2.04       |       |       |
| 8             | 1     | STW6148 | Breidingspomp M2.C1/M2.11 | Fuel pump M2.C1/M2.11 |       |       |
| 9             | 1     | STW6127 | Breidingspomp             | Fuel pump             |       |       |
| 10            | 2     | STW6130 | Muur M8                   | Wall M8               |       |       |
| 11            | 2     | STW6131 | Plaatsteun                | Plate support         |       |       |
| 12            | 2     | STW6132 | Tapsteun M14              | Stud M14              |       |       |
| 13            | 1     | STW6133 | Adapter                   | Adapter               |       |       |
| 14            | 1     | STW6134 | Bout M8x1,5               | Bolt M8x1,5           |       |       |
| 15            | 1     | STW6135 | Bout M8x1,5               | Bolt M8x1,5           |       |       |
| 16            | 1     | STW6136 | Plaatsteun                | Plate support         |       |       |

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De stuklijst is verdeeld over 2 pagina's. Op deze pagina staat het eerste deel.

The parts list is spread over 2 pages. On this page the **first** part is shown.

Aanhaalmoment 55 Nm  
Tension torque 25 Nm

| M2.02         | M2.04 | M2.06   | M2.C1                         | M2.11                         | M2.18 | M2.25 |
|---------------|-------|---------|-------------------------------|-------------------------------|-------|-------|
| <b>Pompen</b> |       |         |                               |                               |       |       |
| item          | qty   | part    | benaming                      | description                   |       |       |
| 1             | 1     | STW6145 | Chassishaak                   | Chassis hook                  |       |       |
| 2             | 1     | STW6146 | Tandwiel buiten               | Gear outer                    |       |       |
| 3             | 1     | STW6147 | Tandwiel binnen               | Gear inner                    |       |       |
| 4             | 1     | STW6206 | Bout M8x1,5                   | Bolt M8x1,5                   |       |       |
| 5             | 1     | STW6207 | Waterpomp binnenwater         | Waterpump coolant             |       |       |
| 6             | 1     | STW6208 | Waterpomp buitenwater         | Waterpump coolant             |       |       |
| 7             | 1     | STW6209 | Bout M8x1,5                   | Bolt M8x1,5                   |       |       |
| 8             | 1     | STW6210 | Bout M8x1,5                   | Bolt M8x1,5                   |       |       |
| 9             | 1     | STW6211 | Bout M8x1,5                   | Bolt M8x1,5                   |       |       |
| 10            | 1     | STW6212 | Bout M8x1,5                   | Bolt M8x1,5                   |       |       |
| 11            | 1     | STW6213 | Bout M8x1,5                   | Bolt M8x1,5                   |       |       |
| 12            | 1     | STW6214 | V-voet 1-1025 mm, 40 A dynamo | V-foot 1-1025 mm, 40 A dynamo |       |       |
| 13            | 1     | STW6215 | V-voet 1-1025 mm, 75 A dynamo | V-foot 1-1025 mm, 75 A dynamo |       |       |
| 14            | 1     | STW6216 | Pulley waterpomp              | Pulley waterpomp              |       |       |
| 15            | 1     | STW6217 | Bout M8x1,5                   | Bolt M8x1,5                   |       |       |

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De stuklijst is verdeeld over 2 pagina's. Op deze pagina staat het tweede deel.

The parts list is spread over 2 pages. On this page the **second** part is shown.

Aanhaalmoment 55 Nm  
Tension torque 25 Nm

| VFA.145                | VFA.200 |         |                       |                       |  |
|------------------------|---------|---------|-----------------------|-----------------------|--|
| <b>Turbocompressor</b> |         |         |                       |                       |  |
| item                   | qty     | part    | benaming              | description           |  |
| 1                      | 1       | VFW0100 | Turbocompressor VFA   | Turbocharger VFA      |  |
| 2                      | 4       | VFW0120 | Muur M8               | Wall M8               |  |
| 3                      | 4       | VFW0121 | Draadend M8           | Stud M8               |  |
| 4                      | 1       | VFW0122 | Plaatsteun            | Plate support         |  |
| 5                      | 1       | DMV0100 | Slang                 | Silicon hose          |  |
| 6                      | 1       | VFW0114 | Slangklep 40-54       | Clamp 40-54           |  |
| 7                      | 1       | VFW0115 | Stap                  | Support               |  |
| 8                      | 1       | VFW0123 | Schroefmontage turbo  | Actuator              |  |
| 9                      | 2       | VFW0124 | Bout M8x1,5           | Bolt M8x1,5           |  |
| 10                     | 2       | DMV0101 | Ring M8               | Washer M8             |  |
| 11                     | 2       | VFW0125 | Bout M8x1,5           | Bolt M8x1,5           |  |
| 12                     | 2       | DMV0102 | Ring M8               | Washer M8             |  |
| 13                     | 1       | VFW0126 | Slang 3x7 L x 0,20 mm | Hose 3x7 L x 0,20 mm  |  |
| 14                     | 2       | VFW0127 | Slangklep 7,5-9       | Hose clamp 7,5-9      |  |
| 15                     | 1       | VFW0128 | Plaatsteun            | Plate support         |  |
| 16                     | 3       | VFW0129 | Bout M8x1,5           | Bolt M8x1,5           |  |
| 17                     | 2       | DMV0103 | Ring M8               | Washer M8             |  |
| 18                     | 3       | DMV0104 | Ring M8               | Washer M8             |  |
| 19                     | 1       | VFW0130 | Bout                  | Bolt                  |  |
| 20                     | 1       | DMV0105 | Stapmontage VFA       | Actuator manifold VFA |  |

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- **Verkrijgbaar als reserveonderdelen.**  
Andere onderdeelnummers zijn nog niet geactiveerd als reserveonderdeel. Deze zijn mogelijk beschikbaar op aanvraag.
- **Available as spare parts.**  
Remaining part numbers have not been set up as spare part. Potentially available on request.

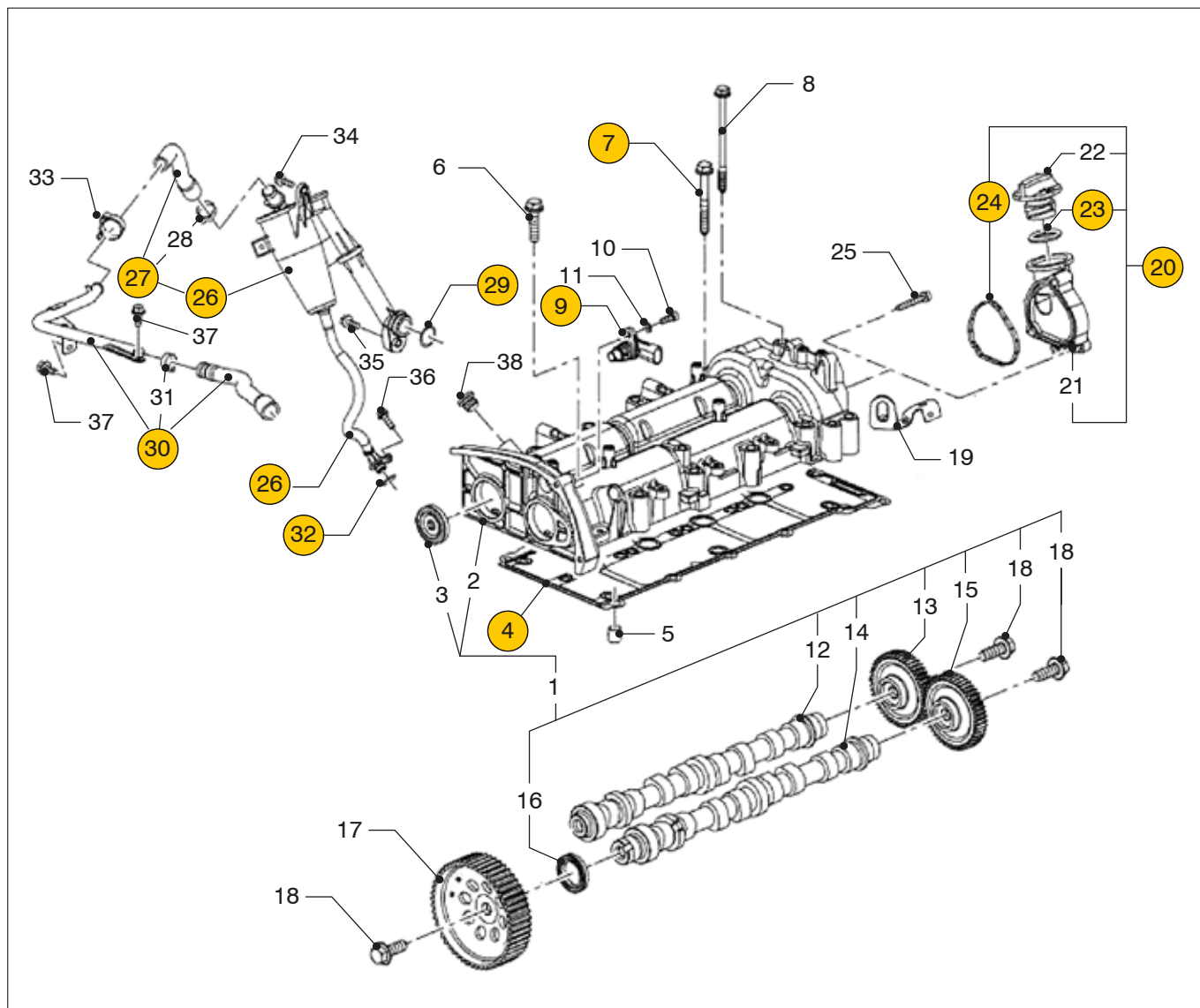
# Inhoud

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| 2-2          | VF4.145 | VF4.180 | VF4.200 | Nokkenas en behuizing                            | Camshaft and case                          |
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| 2-4          | VF4.145 | VF4.180 | VF4.200 | Cilinderkop                                      | Cylinder head                              |
| 2-5          | VF4.145 | VF4.180 | VF4.200 | Cilinderkop                                      | Cylinder head                              |
| 2-6          | VF4.145 | VF4.180 | VF4.200 | Nokkenasaandrijving, riem en tandwielen          | Camshaft drive, belt and gear wheels       |
| 2-7          | VF4.145 | VF4.180 | VF4.200 | Nokkenasaandrijving, riem en tandwielen          | Camshaft drive, belt and gear wheels       |
| 2-8          | VF4.145 | VF4.180 | VF4.200 | Oliefilter behuizing                             | Oil filter housing                         |
| 2-9          | VF4.145 | VF4.180 | VF4.200 | Smeeroliesysteem, oliepompe                      | Lubrication system, oil pump               |
| 2-10         | VF4.145 | VF4.180 | VF4.200 | Oliepompe                                        | Oil pump and fittings                      |
| 2-11         | VF4.145 | VF4.180 | VF4.200 | Carterpan                                        | Oil sump                                   |
| 2-12         | VF4.145 | VF4.180 | VF4.200 | Luchtinlaat spuitstuk                            | Air intake manifold                        |
| 2-13         | VF4.145 | VF4.180 | VF4.200 | Krukas                                           | Crankshaft                                 |
| 2-14         | VF4.145 | VF4.180 | VF4.200 | Krukas                                           | Crankshaft                                 |
| 2-15         | VF4.145 | VF4.180 | VF4.200 | Vliegwiel, voor motor met keerkoppeling ZF       | Flywheel, for engine with gearbox ZF       |
| 2-16         | VF4.145 | VF4.180 | VF4.200 | Vliegwiel, voor motor met keerkoppeling TM       | Flywheel, for engine with gearbox TM       |
| 2-17         | VF4.145 | VF4.180 | VF4.200 | Vliegwiel, voor motor met BRAVO                  | Flywheel, for engine with BRAVO            |
| 2-18         | VF4.145 | VF4.180 | VF4.200 | Vliegwiel, voor motor met keerkoppeling Volvo SX | Flywheel, for engine with gearbox Volvo SX |
| 2-19         | VF4.145 | VF4.180 | VF4.200 | Motorsteunen                                     | Engine supports                            |
| 2-20         | VF4.145 | VF4.180 | VF4.200 | Turbocompressor en luchtfilter                   | Turbocharger and air filter                |
| 2-21         | VF4.145 | VF4.180 | VF4.200 | Turbocompressor                                  | Turbocharger                               |
| 2-22         | VF4.145 | VF4.180 | VF4.200 | Uitlaat injectiebocht                            | Exhaust injection elbow                    |
| 2-23         | VF4.145 | VF4.180 | VF4.200 | Uitlaatspruitstuk                                | Exhaust manifold                           |
| 2-24         | VF4.145 | VF4.180 | VF4.200 | Uitlaatspruitstuk                                | Exhaust manifold                           |
| 2-25         | VF4.145 | VF4.180 | VF4.200 | Smeeroliesysteem voor turbocompressor            | Lubrication system for turbocharger        |
| 2-26         | VF4.145 | VF4.180 | VF4.200 | Riemaandrijving dynamo                           | Belt drive alternator                      |
| 2-27         | VF4.145 | VF4.180 | VF4.200 | Hydraulische pompe                               | Assembly hydraulic pump                    |
| 2-28         | VF4.145 | VF4.180 | VF4.200 | Distributie systeem hydr.pompe                   | Distribution system hydr.pump              |
| 2-29         | VF4.145 | VF4.180 | VF4.200 | Motorblok koeldeksele                            | Engine block cooling cover                 |
| 2-30         | VF4.145 | VF4.180 | VF4.200 | Inlaatspruitstuk                                 | Intake manifold                            |
| 3-1          | VF4.145 | VF4.180 | VF4.200 | Interkoeling group                               | Intercooling group                         |
| 3-2          | VF4.145 | VF4.180 | VF4.200 | Inlaatluchtkoeler, bevestiging en aansluitingen  | Intercooler, fastenings and connections    |
| 3-3          | VF4.145 | VF4.180 | VF4.200 | Inlaatluchtkoeler                                | Intercooler                                |
| 3-4          | VF4.145 | VF4.180 | VF4.200 | Expansietank                                     | Expansion tank                             |
| 3-5          | VF4.145 | VF4.180 | VF4.200 | Warmtewisselaar                                  | Heat exchanger                             |
| 3-6          | VF4.145 | VF4.180 | VF4.200 | Warmtewisselaar                                  | Heat exchanger                             |

| pag.<br>page | type    |         |         | omschrijving                                                | description                                           |
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| 3-8          | VF4.145 | VF4.180 | VF4.200 | Thermostaat                                                 | Thermostat                                            |
| 3-9          | VF4.145 | VF4.180 | VF4.200 | Thermostaat                                                 | Thermostat                                            |
| 3-10         | VF4.145 | VF4.180 | VF4.200 | Buitenwaterpomp                                             | Raw water pump                                        |
| 4-1          | VF4.145 | VF4.180 | VF4.200 | Gloeibougies                                                | Glow plugs                                            |
| 4-2          | VF4.145 | VF4.180 | VF4.200 | Motorbedrading                                              | Engine wiring loom                                    |
| 4-3          | VF4.145 | VF4.180 | VF4.200 | Startmotor                                                  | Electric starter                                      |
| 4-4          | VF4.145 | VF4.180 | VF4.200 | Dynamo                                                      | Alternator                                            |
| 4-5          | VF4.145 | VF4.180 | VF4.200 | Potentiometer keerkoppeling                                 | Potentiometer gear box                                |
| 4-6          | VF4.145 | VF4.180 | VF4.200 | Potentiometer Drive versie                                  | Potentiometer Drive version                           |
| 5-1          | VF4.145 | VF4.180 | VF4.200 | Vliegwielhuis voor keerkoppeling                            | Flywheel housing for gearbox                          |
| 5-2          | VF4.145 | VF4.180 | VF4.200 | Set hekaandrijving 'Bravo', aandrijfdeel                    | Stern drive kit 'Bravo', drive part                   |
| 5-3          | VF4.145 | VF4.180 | VF4.200 | Set hekaandrijving 'Bravo', uitlaatdeel                     | Stern drive kit 'Bravo', exhaust part                 |
| 5-4          | VF4.145 | VF4.180 | VF4.200 | Set hekaandrijving 'Volvo 290 A-B',<br>aandrijfdeel         | Stern drive kit 'Volvo 290 A-B', drive part           |
| 5-5          | VF4.145 | VF4.180 | VF4.200 | Set hekaandrijving 'Volvo 290 A-B',<br>uitlaatdeel          | Stern drive kit 'Volvo 290 A-B', exhaust<br>part      |
| 5-6          | VF4.145 | VF4.180 | VF4.200 | Set hekaandrijving 'Volvo SX A-M',<br>aandrijfdeel          | Stern drive kit 'Volvo SX A-M', drive part            |
| 5-7          | VF4.145 | VF4.180 | VF4.200 | Set hekaandrijving 'Volvo SX A-M',<br>uitlaatdeel           | Stern drive kit 'Volvo SX A-M', exhaust<br>part       |
| 6-1          | VF4.145 | VF4.180 | VF4.200 | Brandstofwarmtewisselaar, motor<br>zonder hydraulische pomp | Fuel heat exchanger, engine without<br>hydraulic pump |
| 6-2          | VF4.145 | VF4.180 | VF4.200 | Brandstofwarmtewisselaar, motor met<br>hydraulische pomp    | Fuel heat exchanger, engine with<br>hydraulic pump    |
| 6-3          | VF4.145 | VF4.180 | VF4.200 | Brandstoffilter                                             | Fuel filter                                           |
| 6-4          | VF4.145 | VF4.180 | VF4.200 | Brandstoffilter                                             | Fuel filter                                           |
| 6-5          | VF4.145 | VF4.180 | VF4.200 | Brandstofinjectiesysteem, leidingen                         | Fuel injection system, pipes                          |
| 6-6          | VF4.145 | VF4.180 | VF4.200 | Brandstofinjectiesysteem, leidingen                         | Fuel injection system, pipes                          |
| 6-7          | VF4.145 | VF4.180 | VF4.200 | Brandstof injectie systeem                                  | Fuel injection distribution                           |



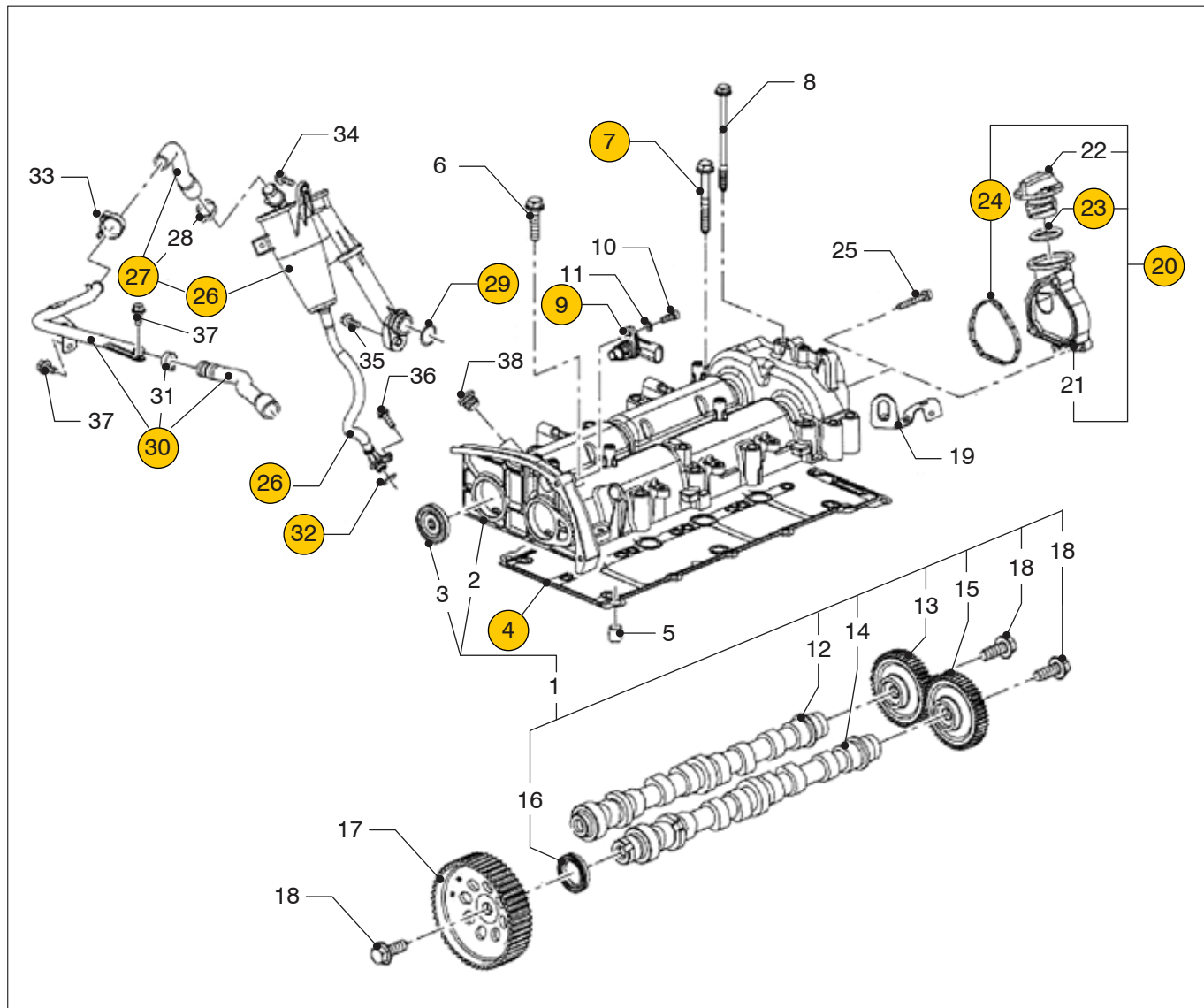


**VF4.145 VF4.200**  
**VF4.180**

### Nokkenas en behuizing

### Camshaft and case

| pos. | qty | part     | benaming                       | description                  |
|------|-----|----------|--------------------------------|------------------------------|
| 1    | 1   | DM10023  | Kleppendeksel cilinderkop VF4  | Rocker cover VF4             |
| 2    | 1   | DM10024  | Deksel                         | Cover                        |
| 3    | 1   | DM10025  | Part preassembled              | Part preassembled            |
| 4    | 1   | VP000301 | Kleppendeksel pakking +12 bout | Valve cover gasket + 12 bolt |
| 5    | 2   | DM10027  | Part preassembled              | Part preassembled            |
| 6    | 5   | DM10028  | Bout M8 X 35                   | Bolt M8 X 35                 |
| 7    | 12  | VP000301 | Bout M8 X 71                   | Bolt M8 X 71                 |
| 8    | 1   | DM10030  | Bout M8 X 125                  | Bolt M8 X 125                |
| 9    | 1   | DM10046  | Nokkenas sensor                | Camshaft sensor              |
| 10   | 1   | DM10047  | Bout M6 X 18                   | Bolt M6 X 18                 |
| 11   | 1   | DM10048  | Ring                           | Washer                       |
| 12   | 1   | DM10049  | Nokkenas inlaat                | camshaft intake              |
| 13   | 1   | DM10050  | Tandwiel inlaat                | Gear intake                  |
| 14   | 1   | DM10051  | Nokkenas uitlaat               | camshaft exhaust             |
| 15   | 1   | DM10052  | Tandwiel uitlaat               | Gear exhaust                 |
| 16   | 1   | DM10053  | Oliekeerring                   | Oil seal ring                |
| 17   | 1   | DM10054  | Tandwiel                       | Gear                         |
| 18   | 2   | DM10055  | Bout M12 X 35                  | Bolt M12 X 35                |
| 19   | 1   | DM10056  | Hijsoog                        | Lifting eye                  |
| 20   | 1   | VP000371 | Olievuldeksel compleet         | preassembled oil fill cover  |

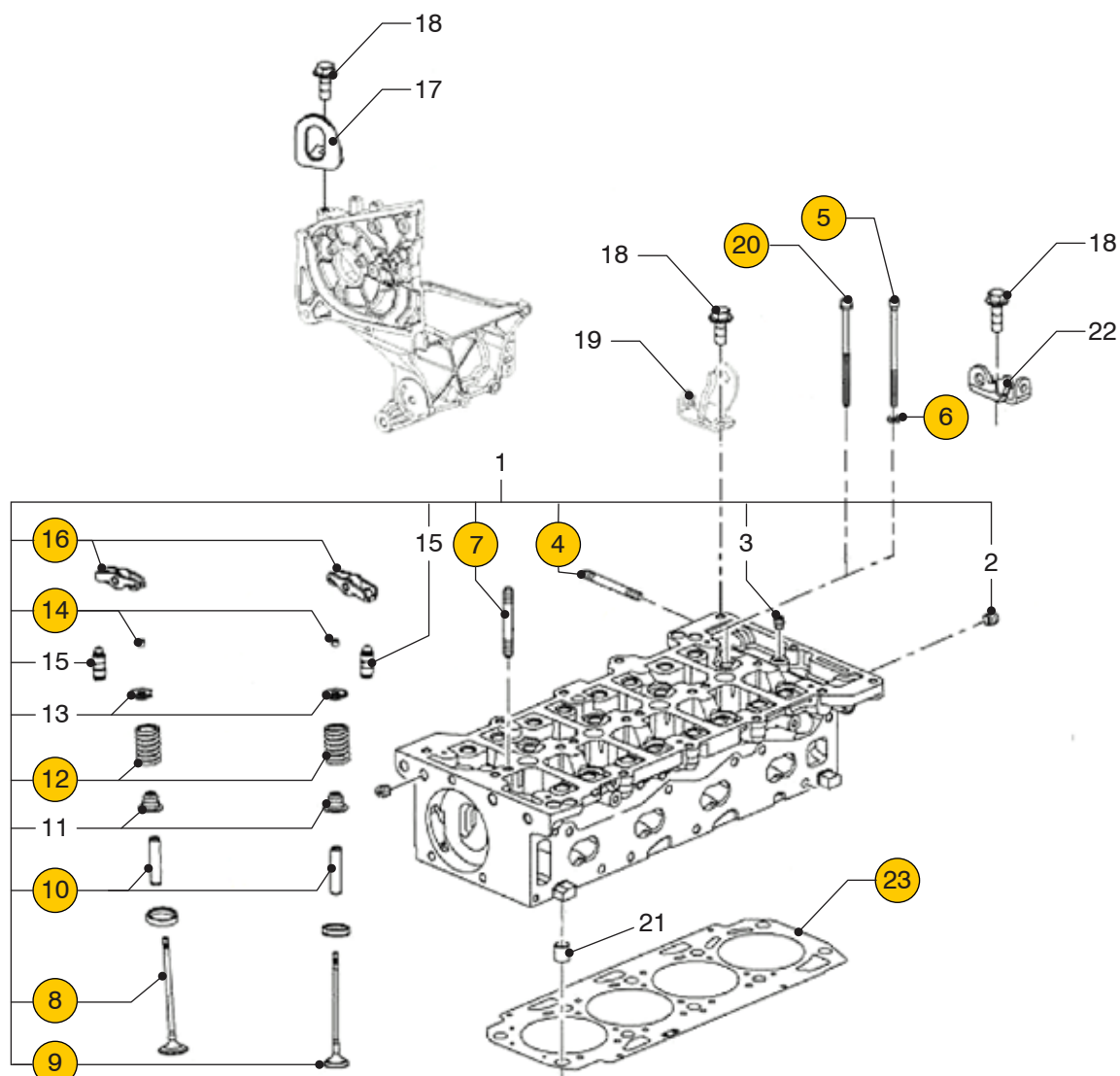


**VF4.145 VF4.200**  
**VF4.180**

### Nokkenas en behuizing

### Camshaft and case

| pos. | qty | part     | benaming        | description     |
|------|-----|----------|-----------------|-----------------|
| 21   | 1   | DM10058  | Deksel          | Cover           |
| 22   | 1   | DM10059  | Olievuldop      | Assembled cap   |
| 23   | 1   | VP000088 | Pakking         | Gasket          |
| 24   | 1   | VP000089 | Pakking         | Gasket          |
| 25   | 3   | DM10062  | Bout M6 X 40 TE | Bolt M6 X 40 TE |
| 26   | 1   | VP000302 | Olie afscheider | Oil separator   |
| 27   | 1   | VP000090 | Slang rubber    | Flexible pipe   |
| 28   | 1   | DM10065  | Slangklem       | Clamp           |
| 29   | 1   | DM10066  | Pakking         | Gasket          |
| 30   | 1   | VP000091 | Slang rubber    | Flexible pipe   |
| 31   | 1   | DM10068  | Slangklem       | Clamp           |
| 32   | 1   | VP000092 | Pakking         | Gasket          |
| 33   | 1   | DM10070  | Slangklem       | Clamp           |
| 34   | 1   | DM10071  | Bout M6 X 18    | Bolt M6 X 18    |
| 36   | 1   | DM10072  | Bout            | Bolt            |
| 37   | 2   | DM10073  | Bout M6 X 14    | Bolt M6 X 14    |

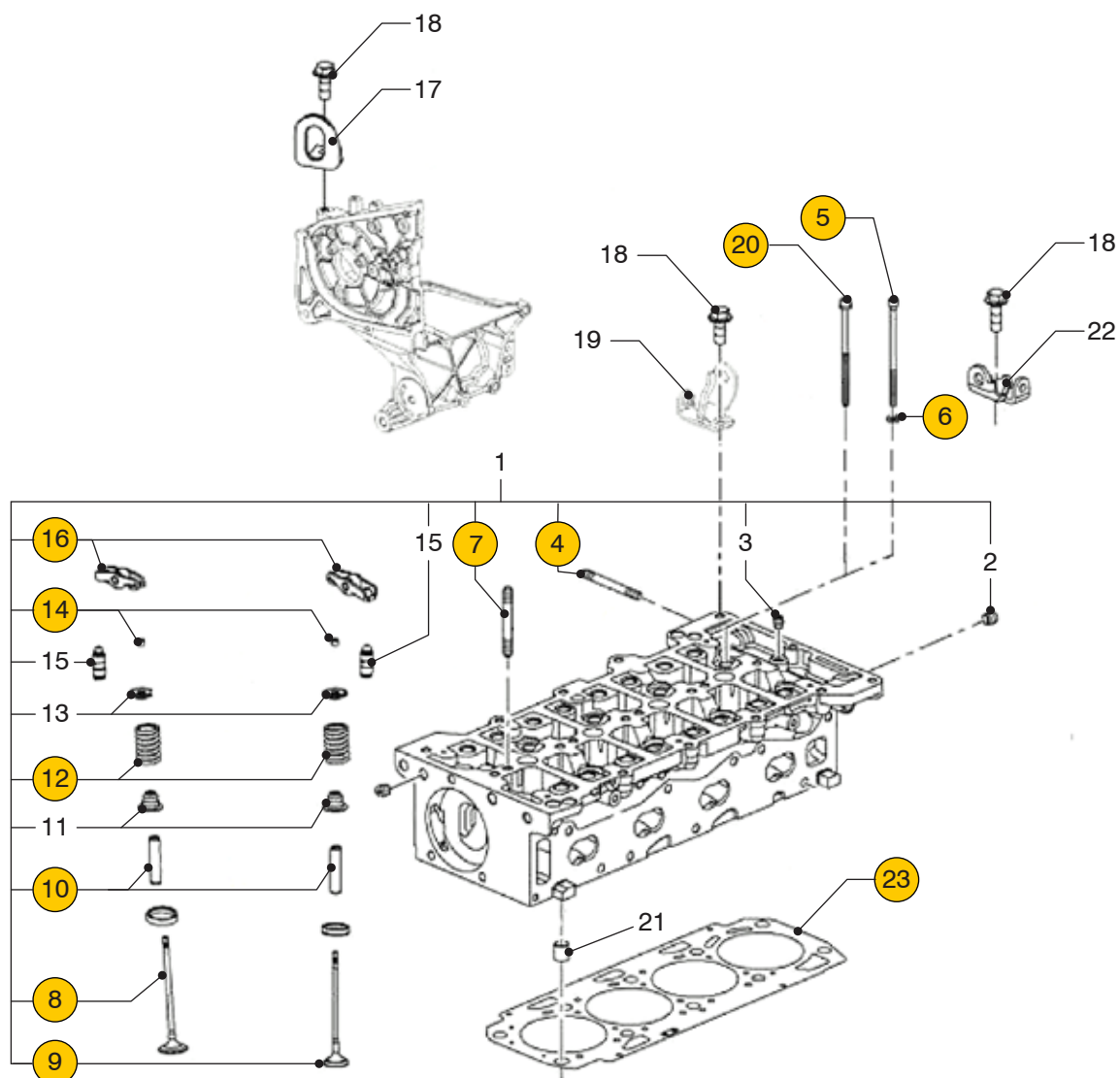


**VF4.145 VF4.200  
VF4.180**

**Cilinderkop**

**Cylinder head**

| pos. | qty | part     | benaming           | description           |
|------|-----|----------|--------------------|-----------------------|
| 1    | 1   | DM10080  | Cilinderkop compl. | Cylinderhead compl.   |
| 2    | 6   | DM10081  | Dop afdichting     | Grub screw or pin     |
| 3    | 1   | DM10082  | Dop afdichting     | Grub screw or pin     |
| 4    | 9   | VP000093 | Draadeind          | Stud                  |
| 5    | 10  | VP000366 | Bout M10X70        | Bolt M10X70           |
| 6    | 10  | VP000366 | Ring M12           | Washer M12            |
| 7    | 4   | VFP01124 | Draadeind          | Treaded end M8X16     |
| 8    | 8   | VP000303 | Uitlaatklep        | Valve exhaust         |
| 9    | 8   | VP000304 | Inlaatklep         | Valve inlet           |
| 10   | 16  | VP000094 | Klepgeleider       | Valve guide           |
| 11   | 16  | DM10090  | Veerschotel        | Retainer valve spring |
| 12   | 16  | VP000095 | Klep veer          | Valve spring          |
| 13   | 16  | DM10092  | Veerschotel        | Cup valve spring      |
| 14   | 32  | VP000096 | Klep spie          | Valve collet          |
| 15   | 16  | DM10094  | Hydr. Klepstoter   | Hydraulic tappet      |
| 16   | 16  | VP000370 | Tuimelaar          | Rocker                |
| 17   | 1   | DM10096  | Hijsoog            | Lift eye              |
| 18   | 4   | DM10097  | Bout voor hijsoog  | Bolt for lift eye     |

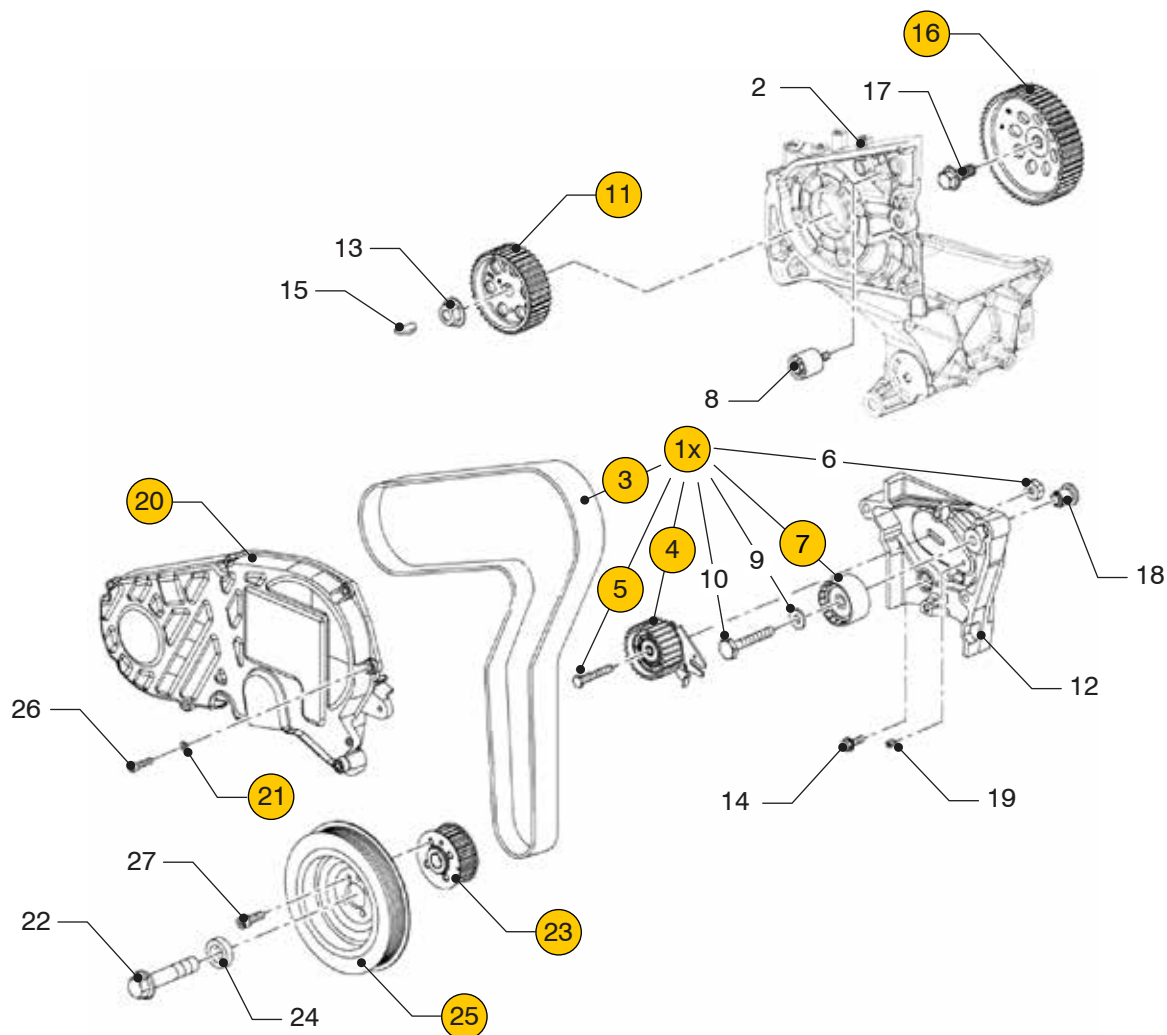


VF4.145 VF4.200  
VF4.180

### Cilinderkop

### Cylinder head

| pos. | qty | part     | benaming                        | description                           |
|------|-----|----------|---------------------------------|---------------------------------------|
| 19   | 1   | DM10098  | Steun                           | Support                               |
| 20   | 10  | VP000368 | Bout M12x1,25x225 (x10)         | Bolt M12x1.25x225 (x10)               |
| 21   | 2   | DM10100  | Paspas                          | Dowel                                 |
| 22   | 1   | DM10101  | Steun                           | Support                               |
| 23   | 1   | VP000305 | Cilinderkoppakking (dikte 0,95) | Cylinder head gasket (thickness 0.95) |
| 23   | 1   | VP000008 | Cilinderkoppakking (dikte 1,05) | Cylinder head gasket (thickness 1.05) |
| 23   | 1   | VP000009 | Cilinderkoppakking (dikte 1,15) | Cylinder head gasket (thickness 1.15) |

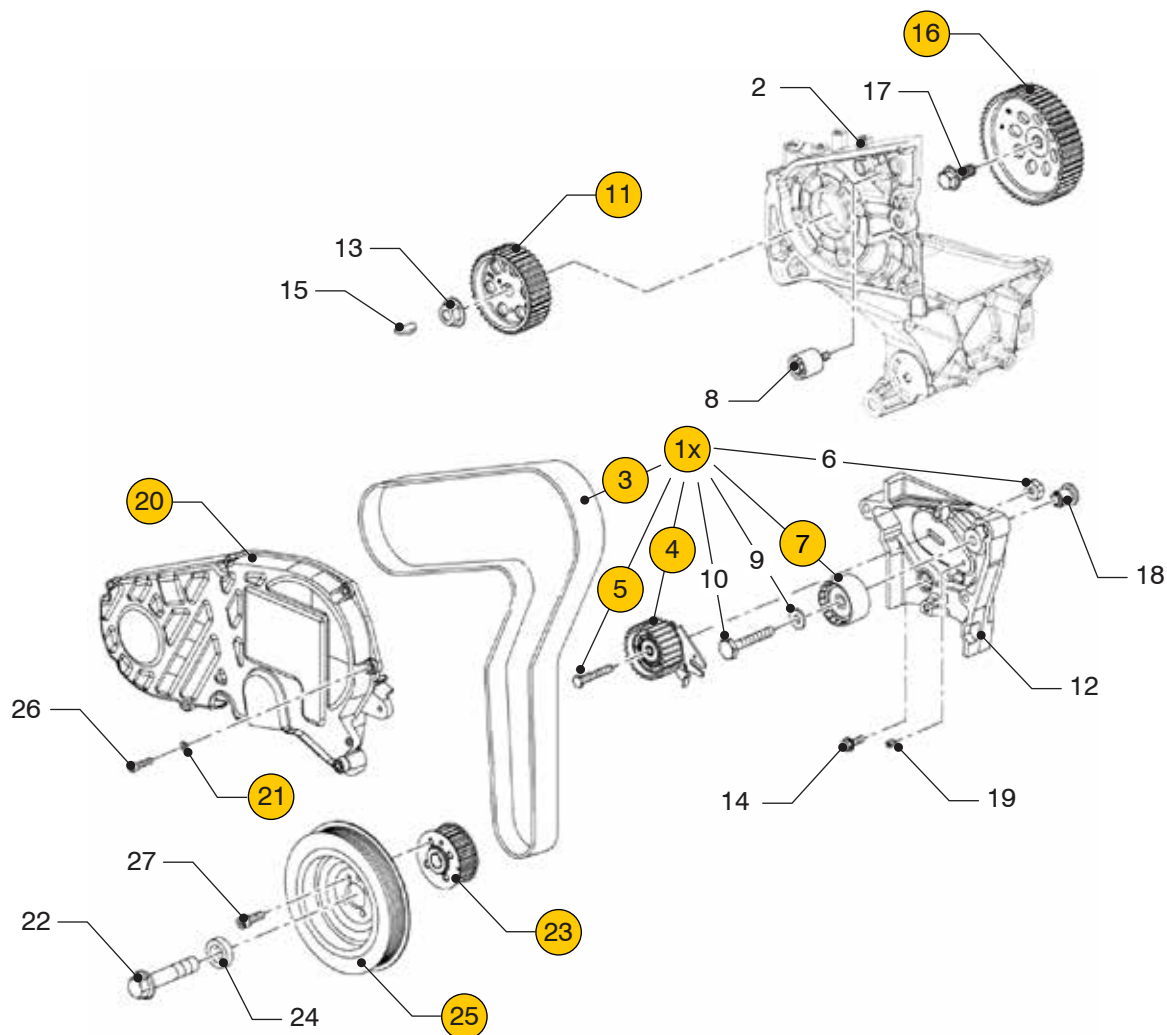


**VF4.145 VF4.200**  
**VF4.180**

**Nokkenasaandrijving, riem en tandwielen**

**Camshaft drive, belt and gear wheels**

| pos. | qty | part     | benaming                         | description                         |
|------|-----|----------|----------------------------------|-------------------------------------|
| 1    | 1   | VP000097 | Spanrol set voor distributieriem | Tensioner set for distribution belt |
| 2    | 1   | DM10165  | Plaat compleet                   | Complete plate                      |
| 3    | 1   | VP000306 | Distributieriem                  | Distribution belt                   |
| 4    | 1   | VP000307 | Riem spanner                     | Belt stretcher                      |
| 5    | 1   | VP000336 | Bout M10X70                      | Bolt M10X70                         |
| 6    | 1   | DM10103  | Moer                             | Nut                                 |
| 7    | 1   | DM10104  | Lager                            | Bearing                             |
| 8    | 1   | DM10105  | Lager                            | Bearing                             |
| 9    | 1   | DM10106  | Ring                             | Washer                              |
| 10   | 1   | DM10107  | Bout                             | Bolt                                |
| 11   | 1   | VP000308 | Tandwiel                         | Gear                                |
| 12   | 1   | DM10109  | Deksel                           | Cover                               |
| 13   | 1   | DM10110  | Moer M16x2                       | Nut M16x2                           |
| 14   | 1   | DM10111  | Bout M8 X 25                     | Bolt M8 X 25                        |
| 15   | 1   | DM10112  | Spie                             | Woodruff key                        |
| 16   | 1   | VP000309 | Tandwiel                         | Gear                                |
| 17   | 3   | DM10114  | Bout                             | Bolt                                |
| 18   | 1   | DM10115  | Bus                              | Bush                                |

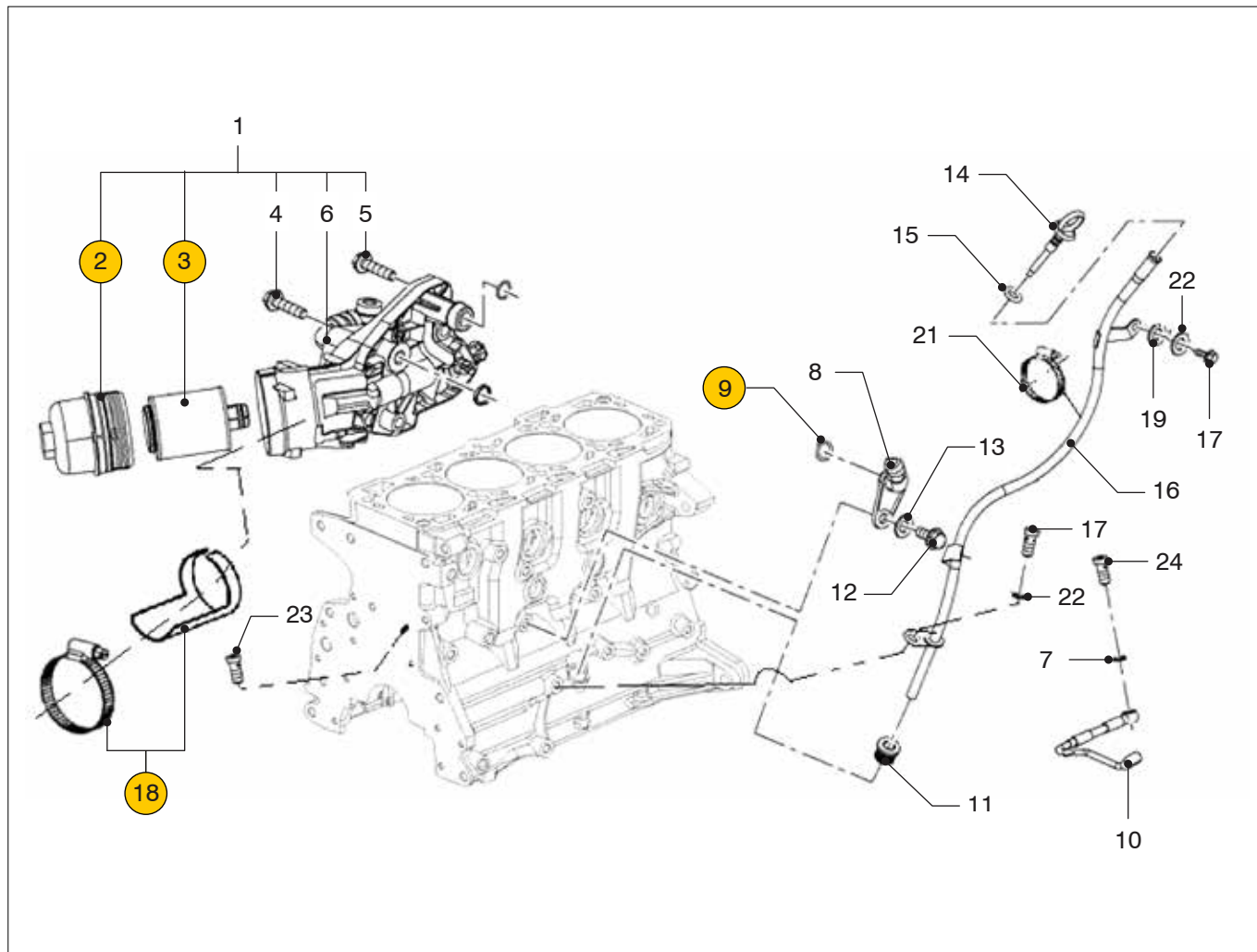


**VF4.145 VF4.200**  
**VF4.180**

**Nokkenasaandrijving, riem en tandwielen**

**Camshaft drive, belt and gear wheels**

| pos. | qty | part     | benaming        | description      |
|------|-----|----------|-----------------|------------------|
| 19   | 1   | DM10116  | Bout            | Bolt             |
| 20   | 1   | DM10041  | Deksel          | Cover            |
| 21   | 1   | VFP01055 | Afstandsring    | Spacer           |
| 22   | 1   | DM10118  | Bout M16        | Bolt M16         |
| 23   | 1   | VP000310 | Tandwiel        | Gear             |
| 24   | 1   | DM10120  | Afstandsring    | Spacer           |
| 25   | 1   | VP000311 | Trillingsdemper | Vibration damper |
| 26   | 6   | DM10122  | Bout M6X1,25x25 | Bolt M6X1.25x25  |
| 27   | 4   | DM10123  | Bout M8 X 28    | Bolt M8 X 28     |

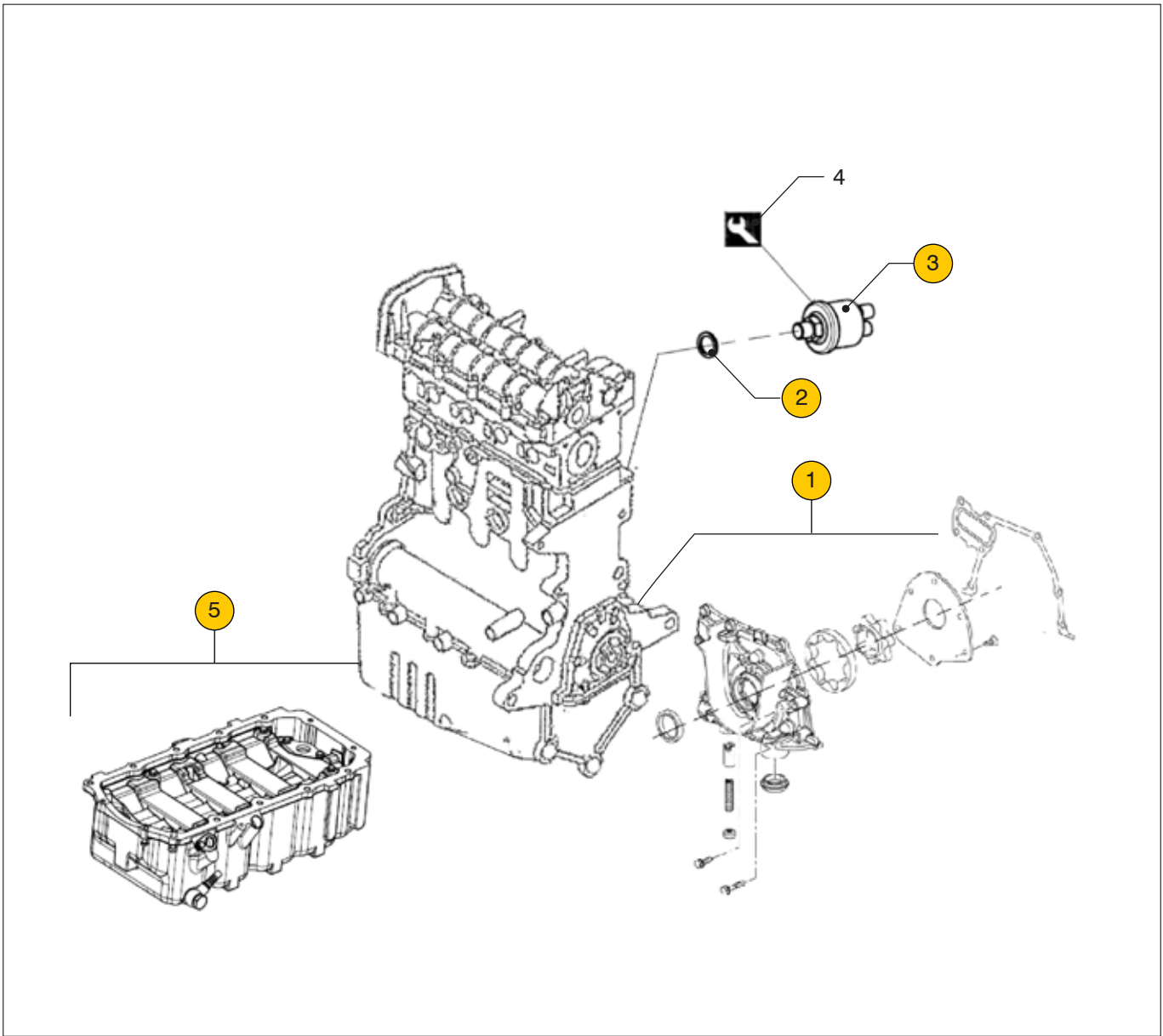


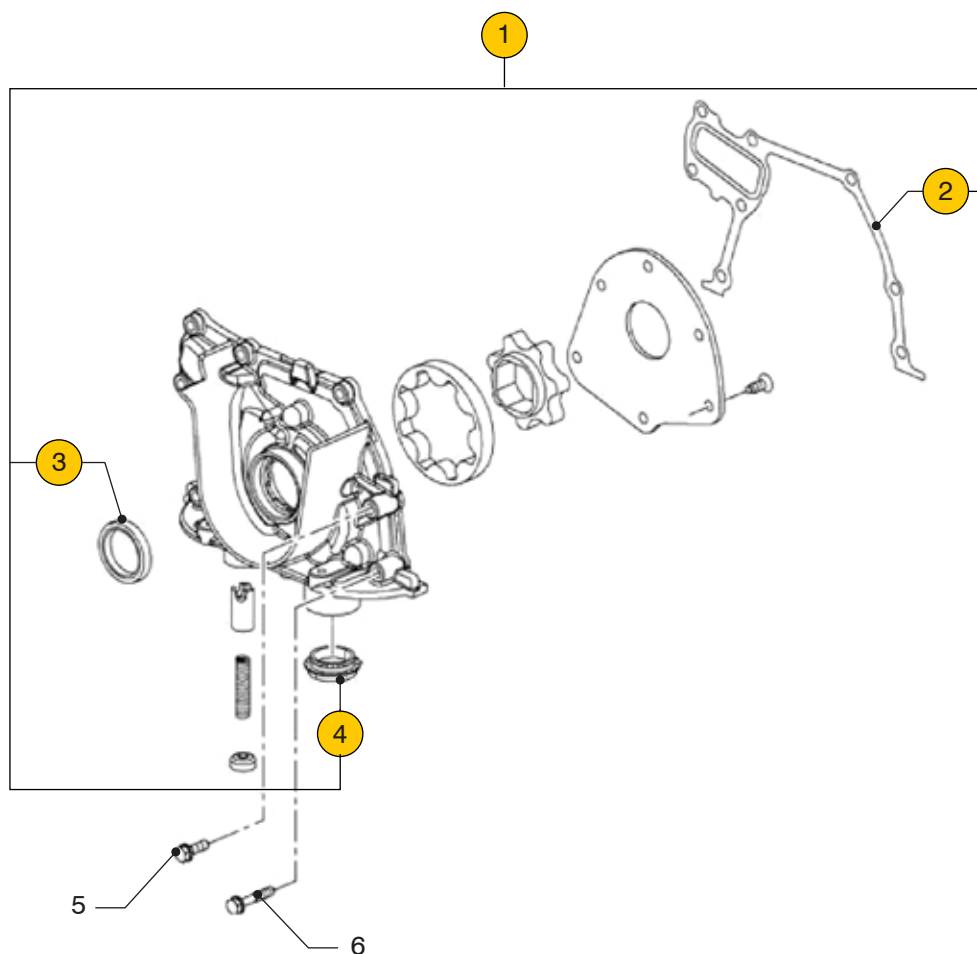
**VF4.145 VF4.200**  
**VF4.180**

**Oliefilter behuizing**

**Oil filter housing**

| pos. | qty | part     | benaming                    | description                 |
|------|-----|----------|-----------------------------|-----------------------------|
| 1    | 1   | DM10124  | Oliefilter behuizing VF4    | Oil filter housing VF4      |
| 2    | 1   | VP000312 | Oliefilter deksel           | Oil filter cover            |
| 3    | 1   | VP000313 | Oliefilter element          | Oil filter element          |
| 4    | 2   | DM10127  | Bout M10X1,25x45            | Bolt M10X1.25x45            |
| 5    | 1   | DM10128  | Bout M10X1,25x100           | Bolt M10X1.25x100           |
| 6    | 1   | DM10129  | Oliefilter behuizing VF4    | Oil filter housing VF4      |
| 7    | 4   | DM10130  | Ring 10 X 14 X 1            | Washer 10 X 14 X 1          |
| 8    | 1   | DM10131  | Pijp                        | Assembled rigid pipe        |
| 9    | 1   | VP000099 | O-ring                      | O-ring                      |
| 10   | 1   | DM10133  | Leiding                     | Flexible pipe               |
| 11   | 1   | DM10134  | Rubber stuk                 | Rubber sleeve               |
| 12   | 1   | DM10135  | Bout M10X1,25x20            | Bolt M10X1.25x20            |
| 13   | 4   | DM10136  | Borgring M10                | Washer M10                  |
| 14   | 1   | DM10137  | Oliepijlstok                | Oil dipstick                |
| 15   | 2   | DM10138  | Afdichtring oliepijlstok    | O-ring oil dipstick         |
| 16   | 1   | DM10139  | Pijp oliepijlstok           | Rigid pipe for oil dipstick |
| 17   | 2   | DM10140  | Bout M6X16                  | Bolt M6X16                  |
| 18   | 1   | VP000314 | Goot oliefilter + slangklem | Drain + hose clamp          |
| 19   | 1   | DM10142  | Ring M6                     | Washer M6                   |
| 21   | 1   | DM10144  | Slangklem                   | Clamp                       |
| 22   | 1   | DM10145  | Ring M6                     | Washer M6                   |
| 23   | 1   | DM10146  | Plug                        | Plug                        |
| 24   | 2   | DM10147  | Banjo bout                  | Banjo bolt                  |

[illegible]

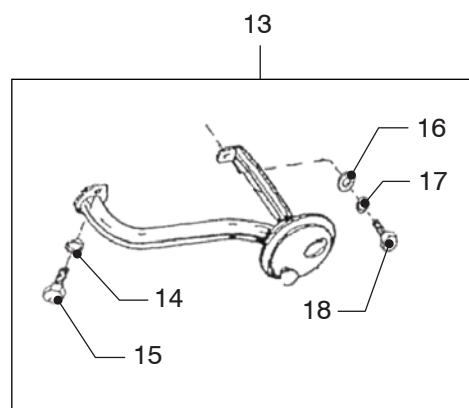
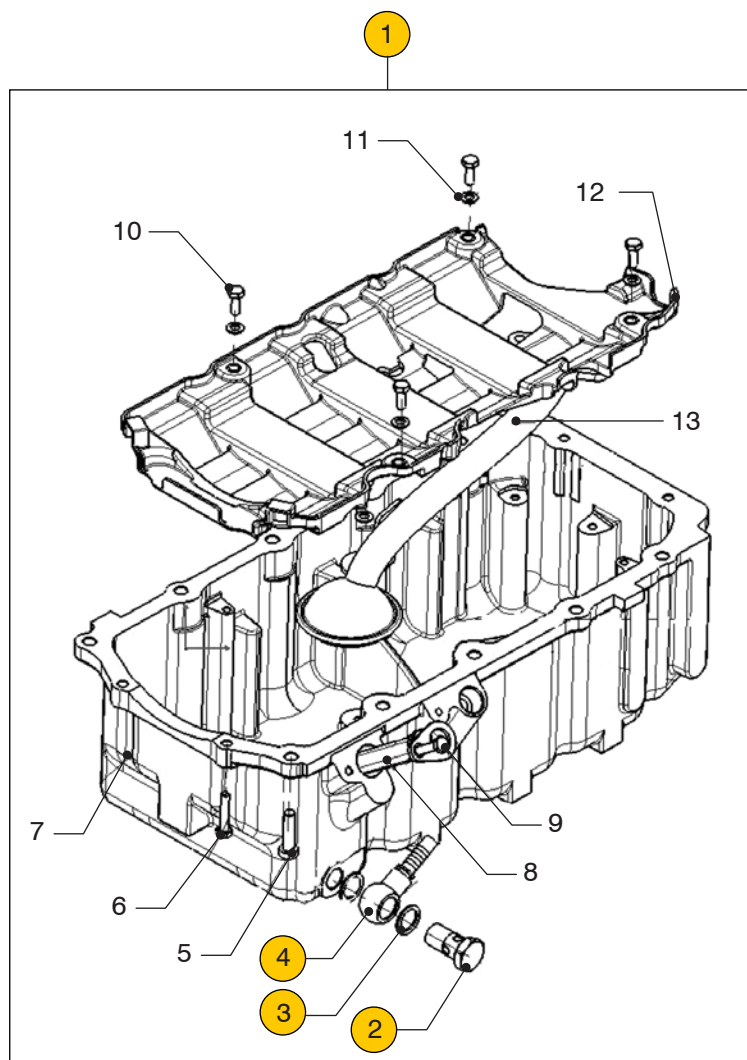


VF4.145 VF4.200  
VF4.180

### Oliepomp

### Oil pump and fittings

| pos. | qty | part     | benaming         | description     |
|------|-----|----------|------------------|-----------------|
| 1    | 1   | VP000315 | Oliepomp         | Oil pump        |
| 2    | 1   | VP000318 | Pakking oliepomp | Gasket oil pump |
| 3    | 1   | VP000100 | Keerring         | Oil seal        |
| 4    | 1   | VP000101 | Pakking          | Seal            |
| 5    | 5   | DM10156  | Bout M6 X 20     | Bolt M6 X 20    |
| 6    | 3   | DM10157  | Bout M6 X 35     | Bolt M6 X 35    |

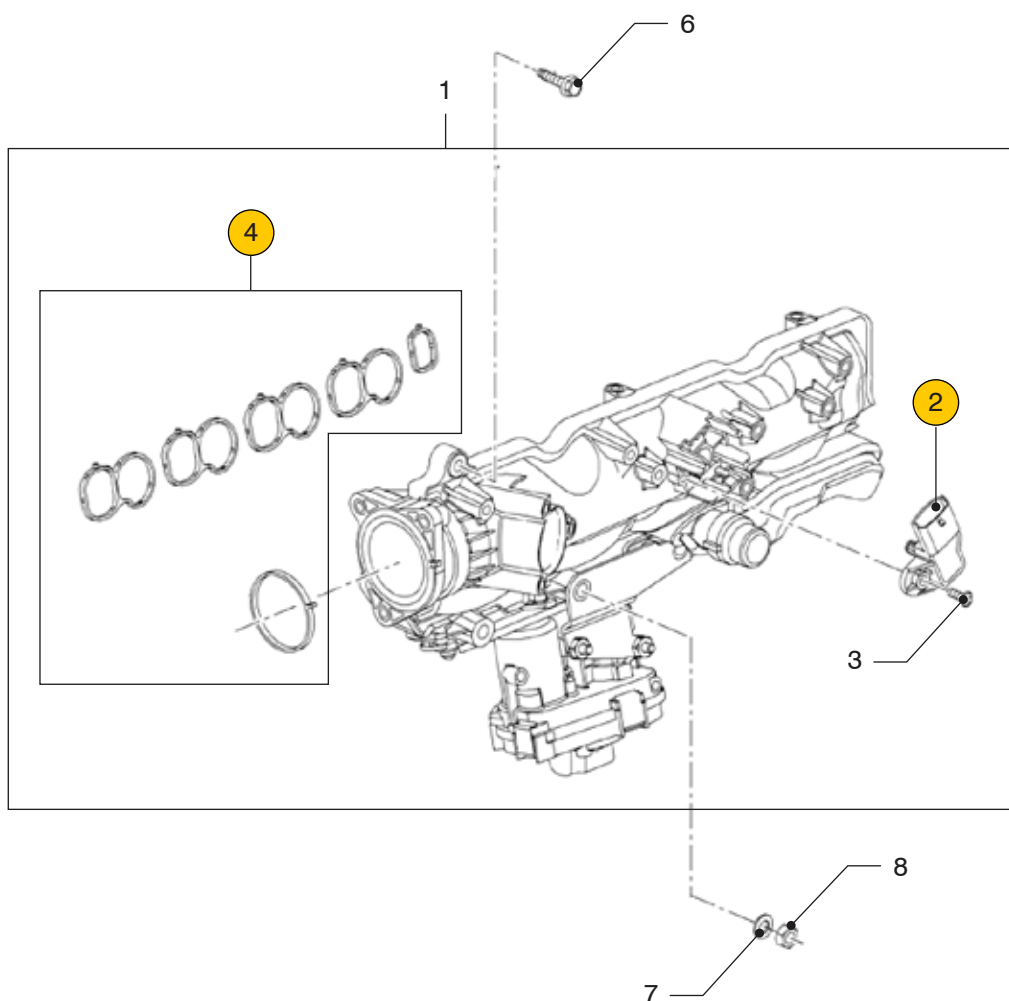


**VF4.145 VF4.200**  
**VF4.180**

### Carterpan

### Oil sump

| pos. | qty | part     | benaming               | description                      |
|------|-----|----------|------------------------|----------------------------------|
| 1    | 1   | VP000316 | Complete carterpan     | Complete oil sump                |
| 2    | 1   | VP000102 | Banjo bout             | Banjo bolt                       |
| 3    | 2   | VFP01355 | Ring M16               | Washer M16                       |
| 4    | 1   | VFP01248 | Banjo oog              | Banjo eye                        |
| 5    | 10  | DM10204  | Bout M8x25             | Bolt M8x25                       |
| 6    | 4   | DM10205  | Bout M6x30             | Bolt M6x30                       |
| 7    | 1   | DM10206  | Olie carterpan         | Oil sump                         |
| 8    | 1   | DM10207  | Pijp in olie carterpan | Rigid pipe in oil sump           |
| 9    | 1   | DM10208  | Bout M6x20             | Bolt M6x20                       |
| 10   | 4   | DM10209  | Bout M6x25             | Bolt M6x25                       |
| 11   | 4   | DM10210  | Ring                   | Washer                           |
| 12   | 1   | DM10211  | Deksel                 | Cover                            |
| 13   | 1   | DM10203  | Pijp in olie carterpan | Assembled rigid pipe in oil sump |
| 14   | 3   | DM10213  | Ring M6                | Washer M6                        |
| 15   | 3   | DM10214  | Bout M6x16             | Bolt M6x16                       |
| 16   | 1   | DM10215  | Ring M6                | Washer M6                        |
| 17   | 3   | DM10216  | Ring M6                | Washer M6                        |
| 18   | 3   | DM10217  | Bout M6x16             | Bolt M6x16                       |

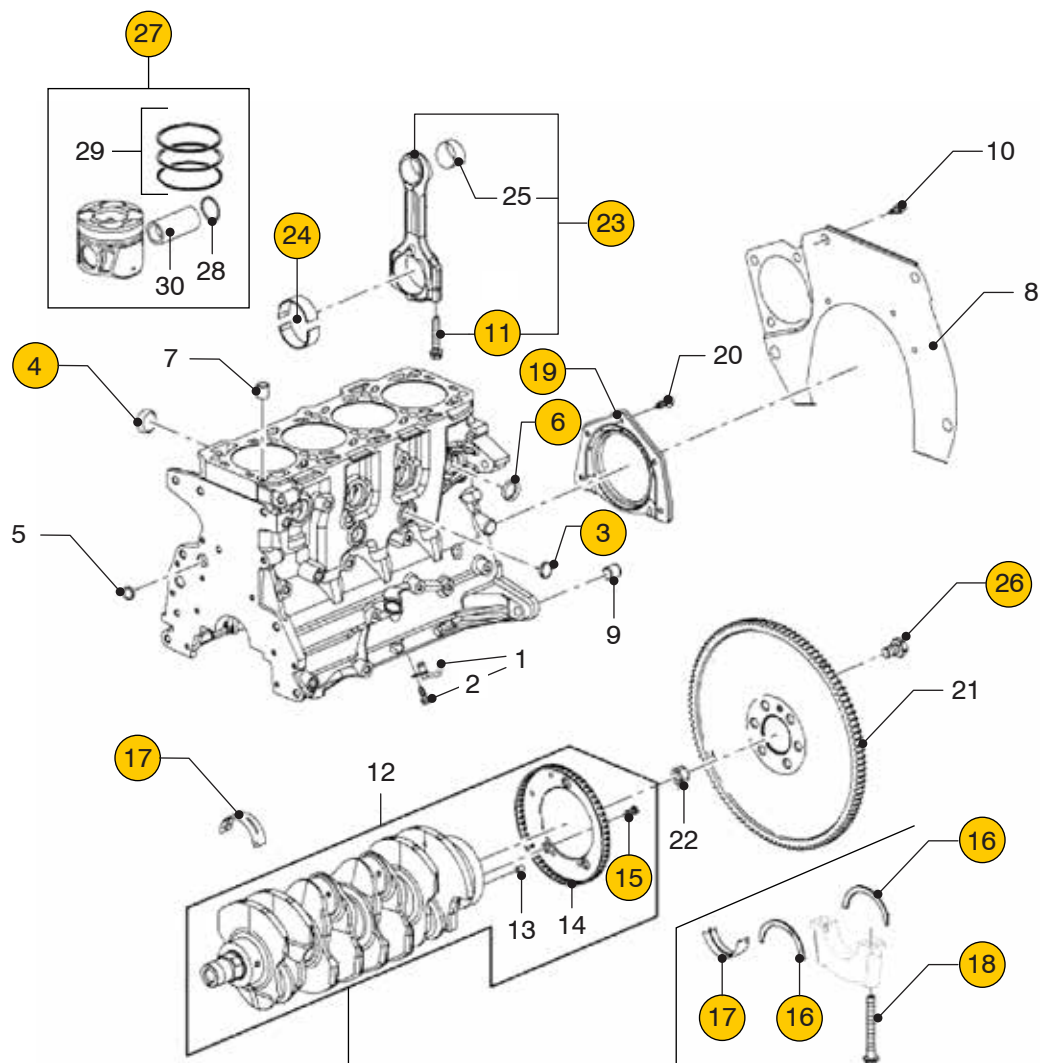


**VF4.145 VF4.200**  
**VF4.180**

**Luchtinlaat spruitstuk**

**Air intake manifold**

| pos. | qty | part     | benaming                      | description                 |
|------|-----|----------|-------------------------------|-----------------------------|
| 1    | 1   | DM10250  | Lucht inlaat spruitstuk       | Preassembled group intake   |
| 2    | 1   | VP000320 | Sensor lucht inlaatspruitstuk | Boost pressure sensor       |
| 3    | 1   | DM10252  | Bout                          | Bolt                        |
| 4    | 1   | VP000319 | Set afdichtingen luchtinlaat  | Set for air intake manifold |
| 6    | 1   | DM10255  | Bout M6X30                    | Bolt M6X30                  |
| 7    | 9   | DM10256  | Ring M8                       | Washer M8                   |
| 8    | 9   | DM10257  | Moer M8                       | Nut M8                      |

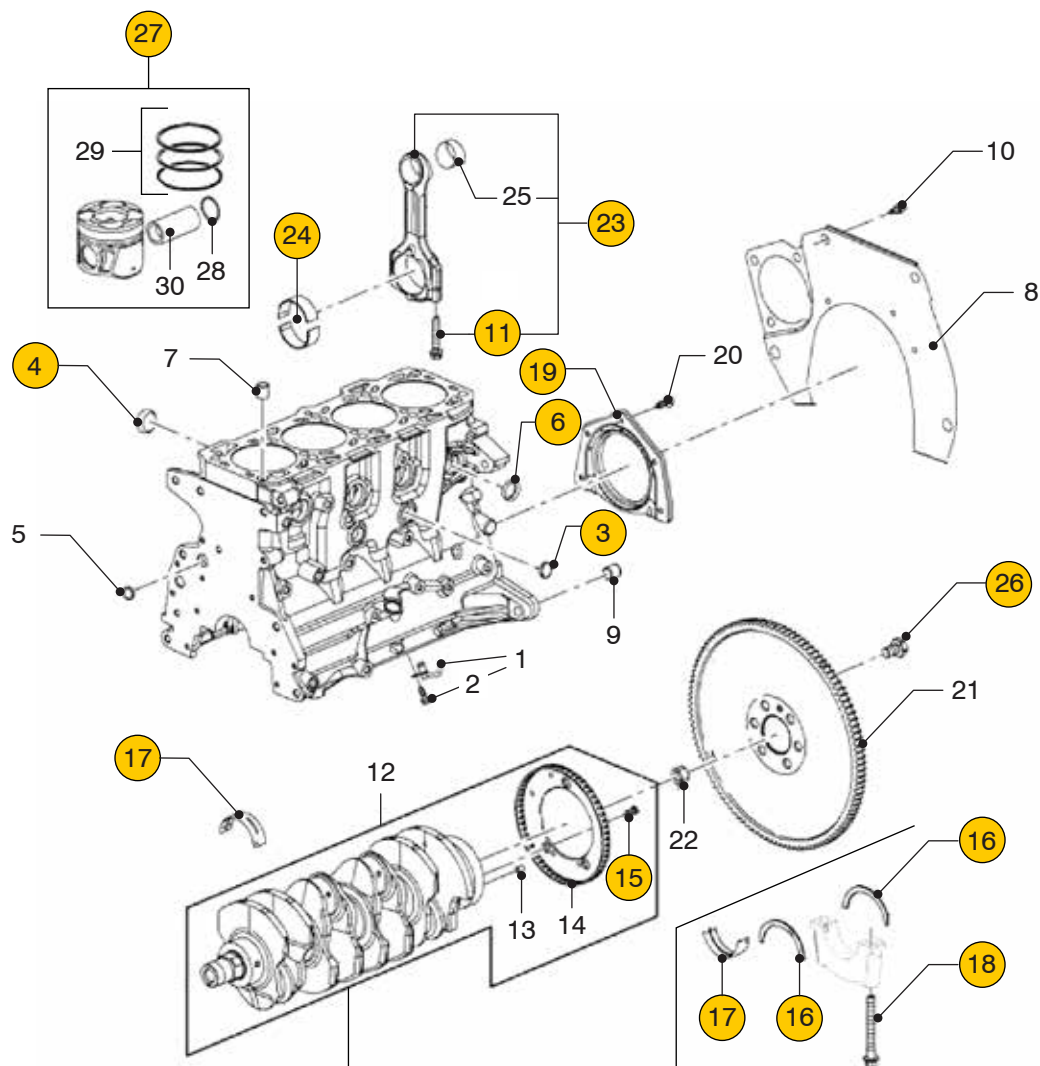


**VF4.145 VF4.200  
VF4.180**

**Krukas**

**Crankshaft**

| pos. | qty | part     | benaming             | description              |
|------|-----|----------|----------------------|--------------------------|
| 1    | 4   | DM10300  | Olie jet             | Oil jet                  |
| 2    | 4   | DM10301  | Bout                 | Bolt                     |
| 3    | 1   | VFP01028 | Plug 20mm            | Plug 20mm                |
| 4    | 5   | VFP01026 | Plug 30mm            | Plug 30mm                |
| 5    | 2   | DM10304  | Plug 16mm            | Plug 16mm                |
| 6    |     | VFP01027 | Plug 25mm            | Plug 25mm                |
| 7    | 2   | DM10306  | Paspen               | Grub screw or pin        |
| 8    | 1   | DM10307  | Adaptorplaat         | Rear plate               |
| 9    | 2   | DM10308  | Paspen               | Grub screw               |
| 10   | 2   | DM10309  | Bout M6 X 16         | Bolt M6 X 16             |
| 11   | 8   | VP000104 | Bout                 | Bolt                     |
| 12   | 1   | DM10311  | Krukas VF4           | Crankshaft               |
| 13   | 1   | DM10312  | Pen                  | Pin                      |
| 14   | 1   | DM10313  | Trigger wiel (TPM)   | Trigger wheel (RPM)      |
| 15   | 3   | VP000033 | Bout M6 X 16         | Bolt M6 X 16             |
| 16   | 1   | VP000105 | Axiaal lager         | Bearing Shell            |
| 17   | 5   | VP000106 | Lager schaal krukas  | Bearing shell crankshaft |
| 18   | 10  | VP000098 | Bout voor hoofdlager | Bolt for main bearing    |

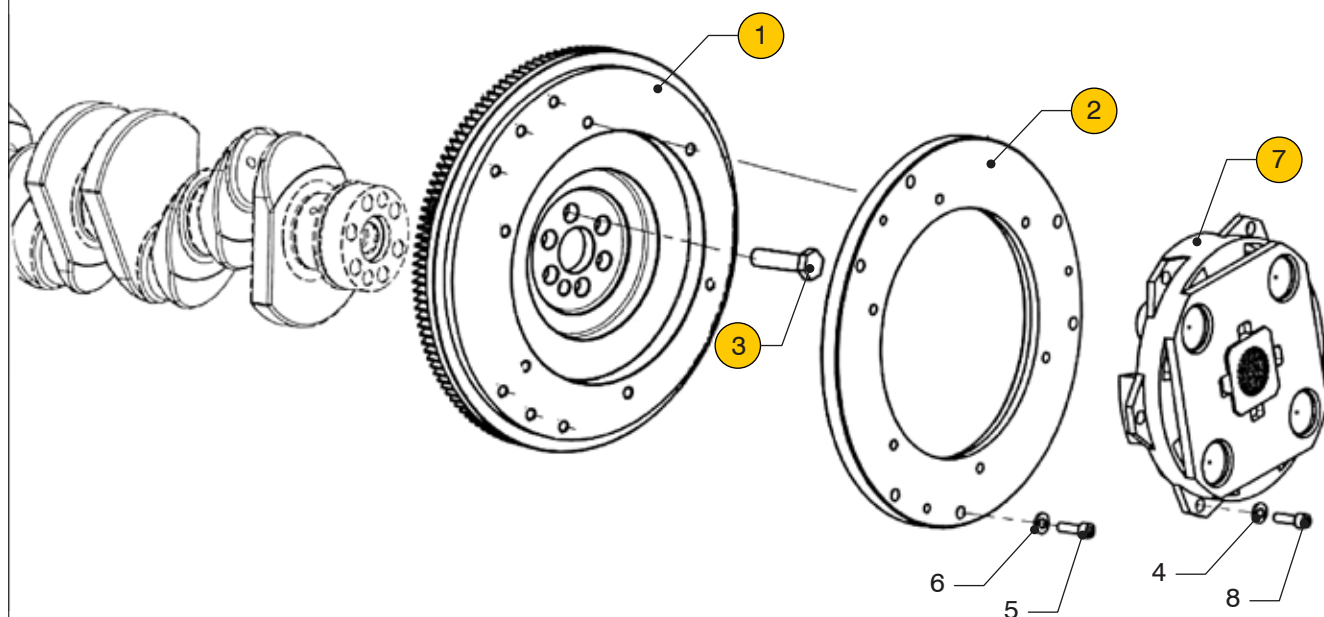


**VF4.145 VF4.200**  
**VF4.180**

**Krukas**

**Crankshaft**

| pos. | qty | part     | benaming                 | description                 |
|------|-----|----------|--------------------------|-----------------------------|
| 19   | 1   | VP000107 | Krukaskeerring houder    | Crankshaft oil seal housing |
| 20   | 5   | DM10319  | Bout M6 X 16             | Bolt M6 X 16                |
| 21   | 1   | DM10320  | Starterkrans             | Starter gear ring           |
| 22   | 1   | DM10321  | Pin                      | Grub screw or pin           |
| 23   | 4   | VP000321 | Drijfstang               | Conrod                      |
| 24   | 4   | VP000108 | Lagerschaal drijfstang   | Bearing shells for conrod   |
| 25   | 4   | DM10324  | Lagerbus                 | Small end bearing           |
| 26   | 6   | VP000110 | Bout M12 X 20            | Bolt M12 X 20               |
| 27   | 4   | VP000322 | Zuiger compleet STD.VF4  | Piston compl. STD.VF4       |
| 28   | 8   | DM10327  | Borgring zuigerpen       | Lock ring piston pin        |
| 29   | 4   | DM10328  | Zuigerveren set STD. VF4 | Piston ring set STD. VF4    |
| 30   | 4   | DM10329  | Piston pen VF4           | Piston pin VF4              |

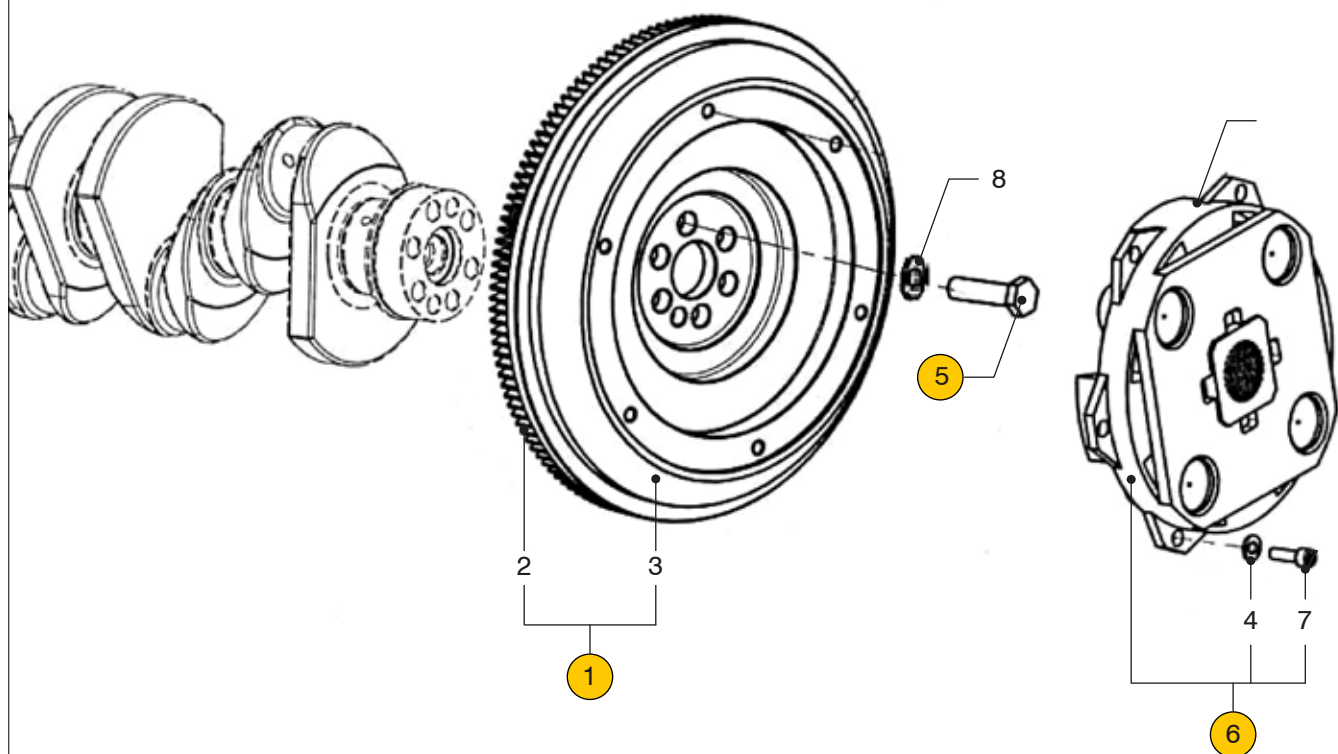


**VF4.145 VF4.200**  
**VF4.180**

**Vliegwiel, voor motor met keerkoppeling ZF**

**Flywheel, for engine with gearbox ZF**

| pos. | qty | part     | benaming           | description       |
|------|-----|----------|--------------------|-------------------|
| 1    | 1   | VFP01067 | Vliegwiel compleet | Flywheel assembly |
| 2    | 1   | VFP01070 | Afstandsring       | Spacer plate      |
| 3    | 6   | VFP01069 | Bout M12x1,25x44   | Bolt M12x1.25x44  |
| 4    | 6   | VFP01057 | Ring M8            | Washer M8         |
| 5    | 6   | VFP01071 | Bout M8x1,25x25    | Bolt M8x1.25x25   |
| 6    | 6   | VFP01057 | Ring M8            | Washer M8         |
| 7    | 1   | VFP01073 | Demperplaat        | Damperplate       |
| 8    | 6   | VFP01074 | Bout M8x20         | Bolt M8x20        |

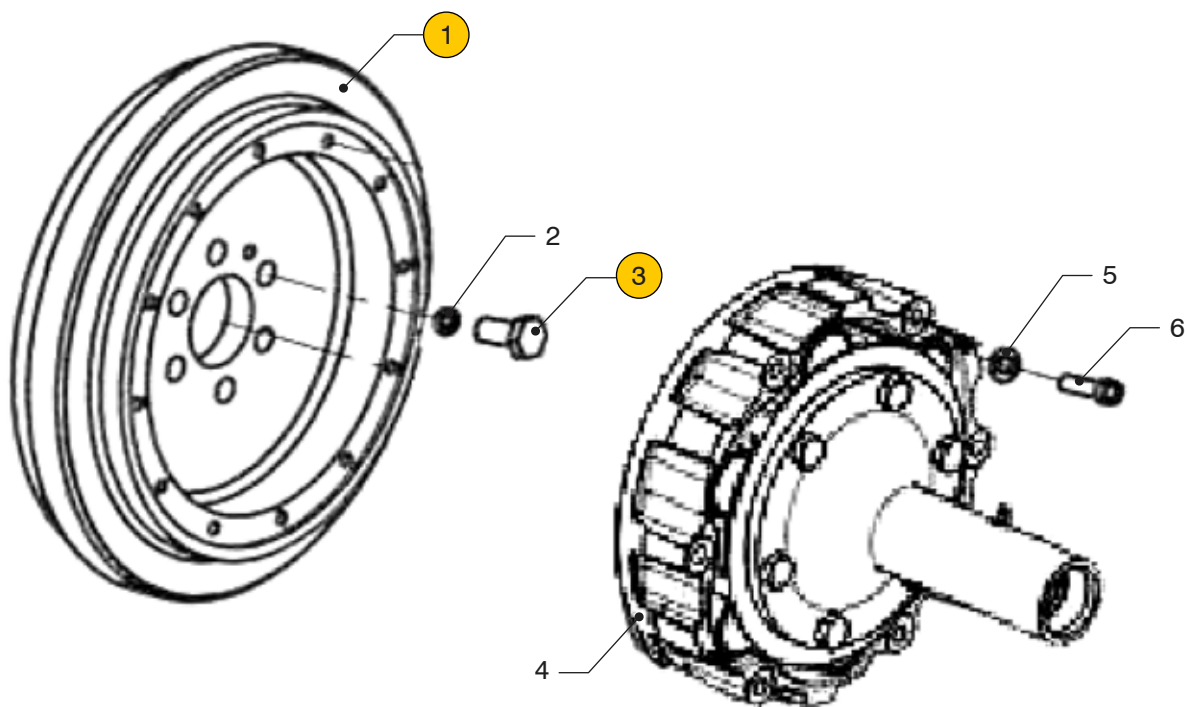


**VF4.145 VF4.200**  
**VF4.180**

**Vliegwiel, voor motor met keerkoppeling TM**

**Flywheel, for engine with gearbox TM**

| pos. | qty | part     | benaming           | description       |
|------|-----|----------|--------------------|-------------------|
| 1    | 1   | VFP01646 | Vliegwiel compleet | Flywheel assembly |
| 2    | 1   | VFP01068 | Starterkrans       | Ring gear         |
| 3    | 1   | DM10331  | Vliegwiel          | Flywheel          |
| 4    | 6   | VFP01057 | Ring M8            | Washer M8         |
| 5    | 6   | VFP01069 | Bout M12x1,25x44   | Bolt M12x1.25x44  |
| 6    | 1   | VP000324 | Demperplaat        | Damperplate       |
| 7    | 6   | VFP01074 | Bout M8x20         | Bolt M8x20        |
| 8    | 6   | DM10344  | Ring M10           | Washer M10        |

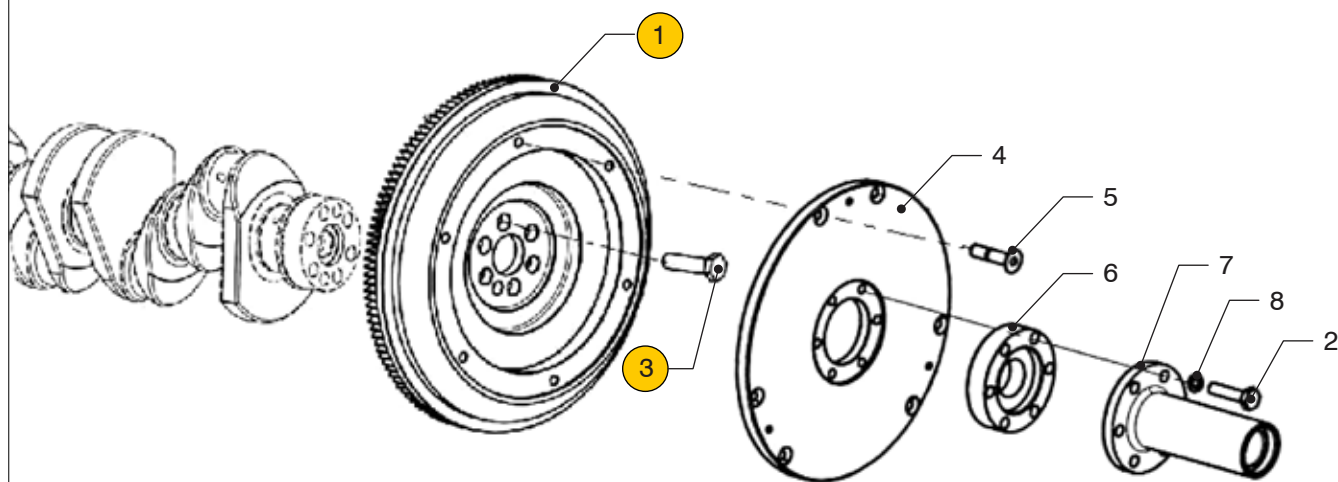


**VF4.145 VF4.200**  
**VF4.180**

**Vliegwiel, voor motor met BRAVO**

**Flywheel, for engine with BRAVO**

| pos. | qty | part     | benaming           | description       |
|------|-----|----------|--------------------|-------------------|
| ①    | 1   | VP000389 | Vliegwiel compleet | Flywheel assembly |
| 2    | 6   | DM10334  | Ring M12           | Washer M12        |
| ③    | 6   | VFP01615 | Bout M12X1,25x29   | Bolt M12X1.25x29  |
| 4    | 1   | DM10336  | Demperplaat        | Damper plate      |
| 5    | 6   | VFP01057 | Ring M8            | Washer M8         |
| 6    | 6   | DM10337  | Bout M8X1,25X60    | Bolt M8X1.25X60   |

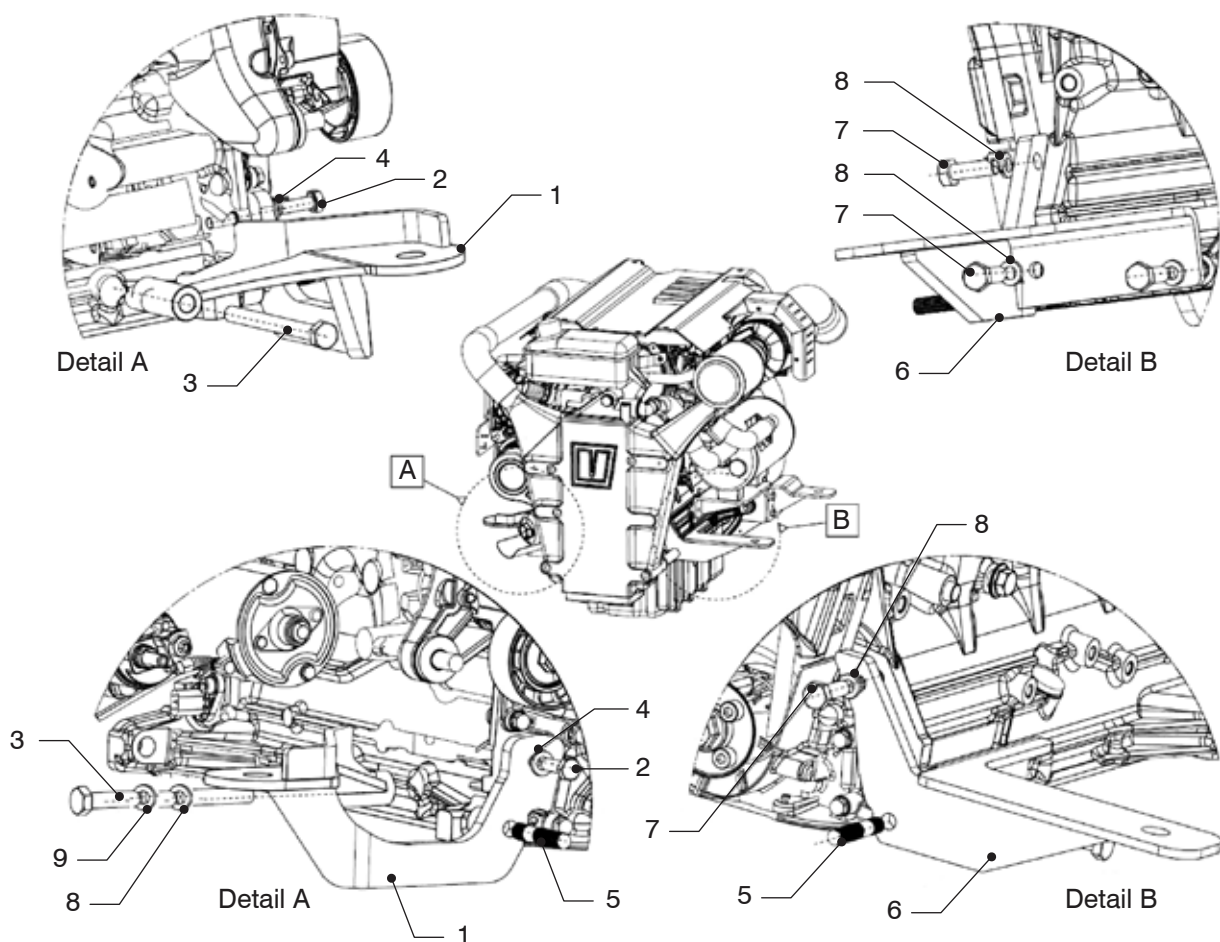


**VF4.145 VF4.200  
VF4.180**

**Vliegwiel, voor motor met keerkoppeling  
Volvo SX**

**Flywheel, for engine with gearbox Volvo SX**

| pos. | qty | part     | benaming           | description       |
|------|-----|----------|--------------------|-------------------|
| 1    | 1   | VP000389 | Vliegwiel compleet | Flywheel assembly |
| 2    | 6   | DM10339  | Bout M10x1,25x65   | Bolt M10x1.25x65  |
| 3    | 6   | VFP01069 | Bout M12x1,25x44   | Bolt M12x1.25x44  |
| 4    | 1   | DM10340  | Plaat              | Plate             |
| 5    | 6   | DM10341  | Bout M8X1,25x25    | Bolt M8X1.25x25   |
| 6    | 1   | DM10342  | Plaat              | Plate             |
| 7    | 1   | DM10343  | Naaf, compleet     | Complete hub      |
| 8    | 6   | DM10344  | Ring M10           | Washer M10        |

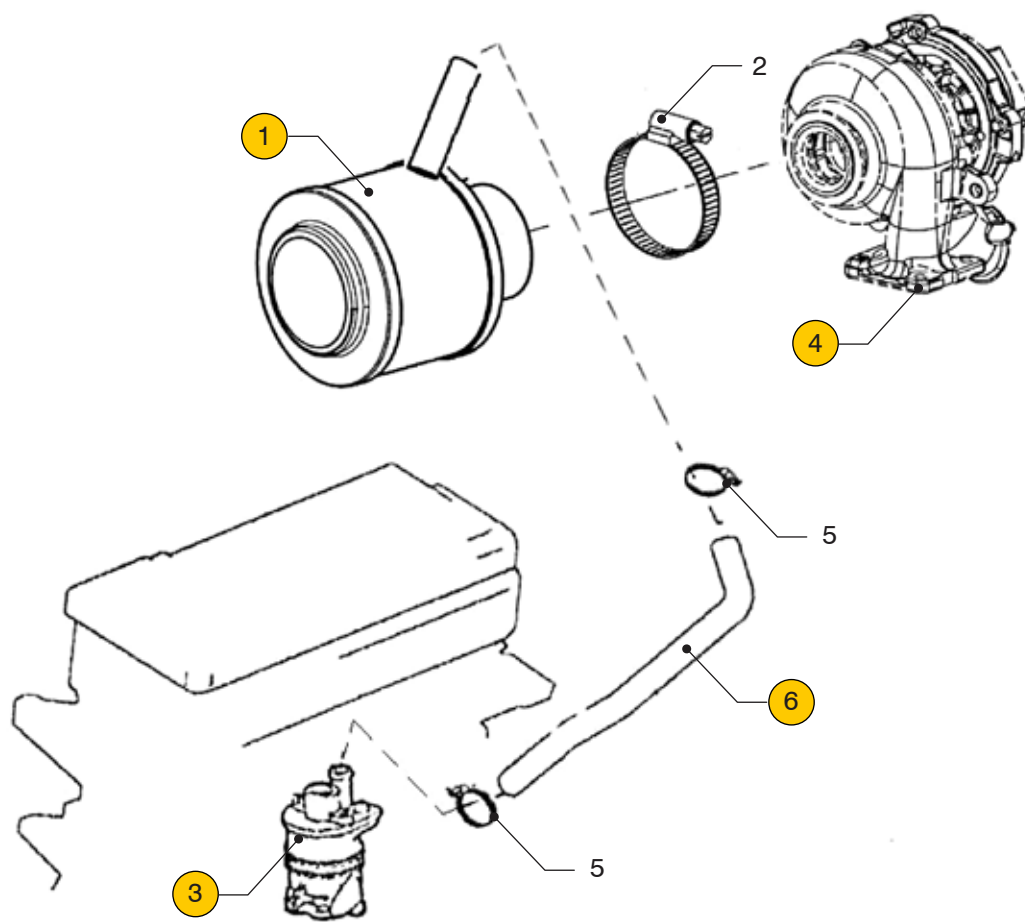


**VF4.145 VF4.200  
VF4.180**

**Motorsteunen**

**Engine supports**

| pos. | qty | part    | benaming              | description       |
|------|-----|---------|-----------------------|-------------------|
| 1    | 1   | DM10345 | Motorsteun            | Engine support    |
| 2    | 1   | DM10346 | Bout M8X1,25x25       | Bolt M8X1.25x25   |
| 3    | 1   | DM10347 | Bout M10X1,25x100     | Bolt M10X1.25x100 |
| 4    | 1   | DM10348 | Ring M8               | Washer M8         |
| 5    | 2   | DM10349 | Draadeind M10X1,25x55 | Stud M10X1.25x55  |
| 6    | 1   | DM10350 | Motorsteun            | Engine support    |
| 7    | 3   | DM10351 | Bout M10X1,25x30      | Bolt M10X1.25x30  |
| 8    | 4   | DM10352 | Ring M10              | Washer M10        |
| 9    | 1   | DM10353 | Ring M10              | Washer M10        |

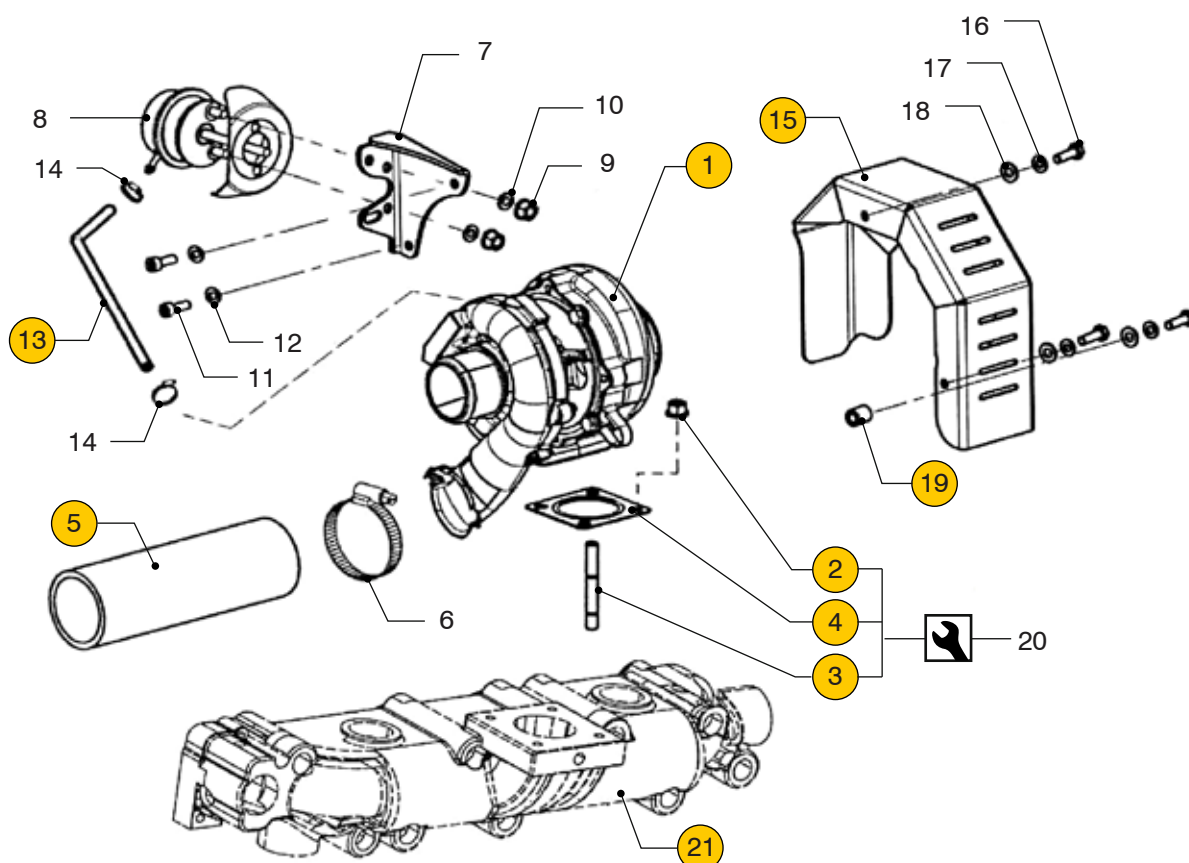


**VF4.145 VF4.200**  
**VF4.180**

**Turbocompressor en luchtfilter**

**Turbocharger and air filter**

| pos. | qty | part     | benaming            | description       |
|------|-----|----------|---------------------|-------------------|
| 1    | 1   | VP000137 | Luchtfilter VF4     | Air filter        |
| 2    | 1   | VFP01174 | Slangklem 40-64     | Clamp 40-64       |
| 3    | 1   | VP000302 | Olieafschijder      | Oil separator     |
| 4    | 1   | VP000326 | Turbocompressor VF4 | Turbocharger VF4  |
| 5    | 2   | VFP01168 | Slangklem 14-27     | Clamp 14-27       |
| 6    | 1   | VP000091 | Slang (L= 1,00mt.)  | Hose (L= 1.00mt.) |

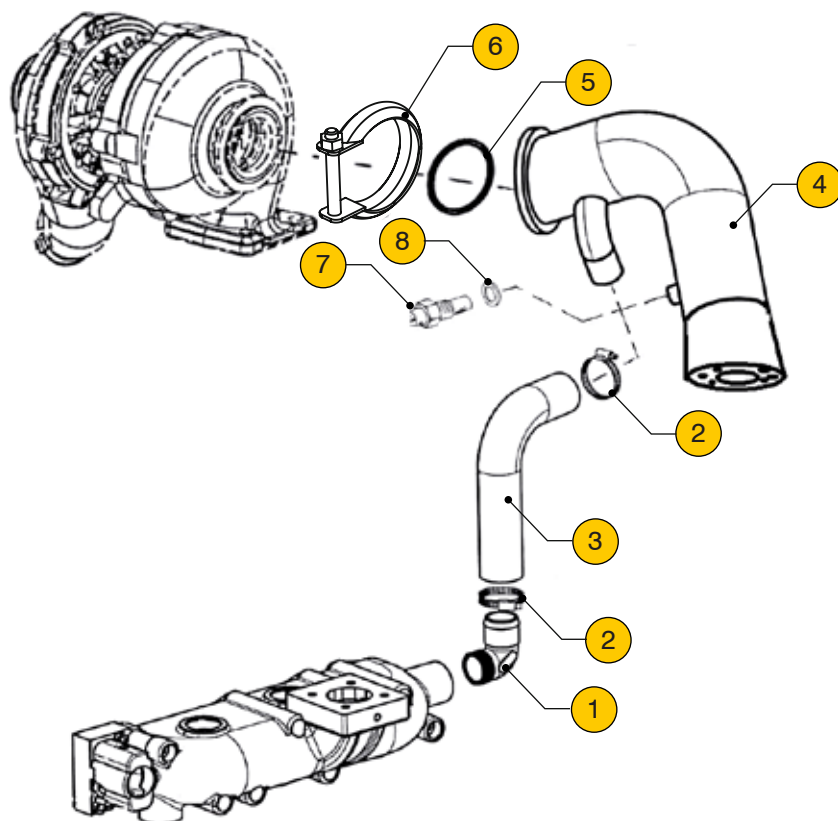


**VF4.145 VF4.200**  
**VF4.180**

**Turbocompressor**

**Turbocharger**

| pos. | qty | part     | benaming               | description          |
|------|-----|----------|------------------------|----------------------|
| ①    | 1   | VP000326 | Turbocompressor VF4    | Turbocharger VF4     |
| ②    | 4   | VFP01278 | Moer M8                | Nut M8               |
| ③    | 4   | VFP01279 | Draadeind M8           | Stud M8              |
| ④    | 1   | VFP01282 | Pakking turbo          | Gasket turbo         |
| ⑤    | 1   | VFP01770 | Slang                  | Silicon hose         |
| 6    | 1   | VFP01174 | Slangklem 40-64        | Clamp 40-64          |
| 7    | 1   | VFP01771 | Steun                  | Support              |
| 8    | 1   | VFP01284 | Schoepensturing turbo  | Actuator             |
| 9    | 2   | VFP01285 | Borgmoer M6            | Lock nut M6          |
| 10   | 2   | R062R    | Ring M6                | Washer M6            |
| 11   | 2   | VFP01287 | Bout M6x14             | Bolt M6x14           |
| 12   | 2   | R062R    | Ring M6                | Washer M6            |
| ⑬    | 1   | VFP01289 | Slang 3x7 L= 0,20 mt.  | Hose 3x7 L= 0.20 mt. |
| 14   | 2   | VFP01290 | Slangklem 7,5 - 9      | Hose clamp 7.5 - 9   |
| ⑮    | 1   | VFP01772 | Hitte schild           | Heat shield          |
| 16   | 3   | VFP01773 | Bout M6x20             | Bolt M6x20           |
| 17   | 3   | R062R    | Ring M6                | Washer M6            |
| 18   | 3   | DM10357  | Ring M6                | Washer M6            |
| ⑰    | 1   | VFP01241 | Bus                    | Bush                 |
| ⑳    | 1   | DM10036  | Uitlaat spruitstuk VF4 | Exhaust manifold VF4 |

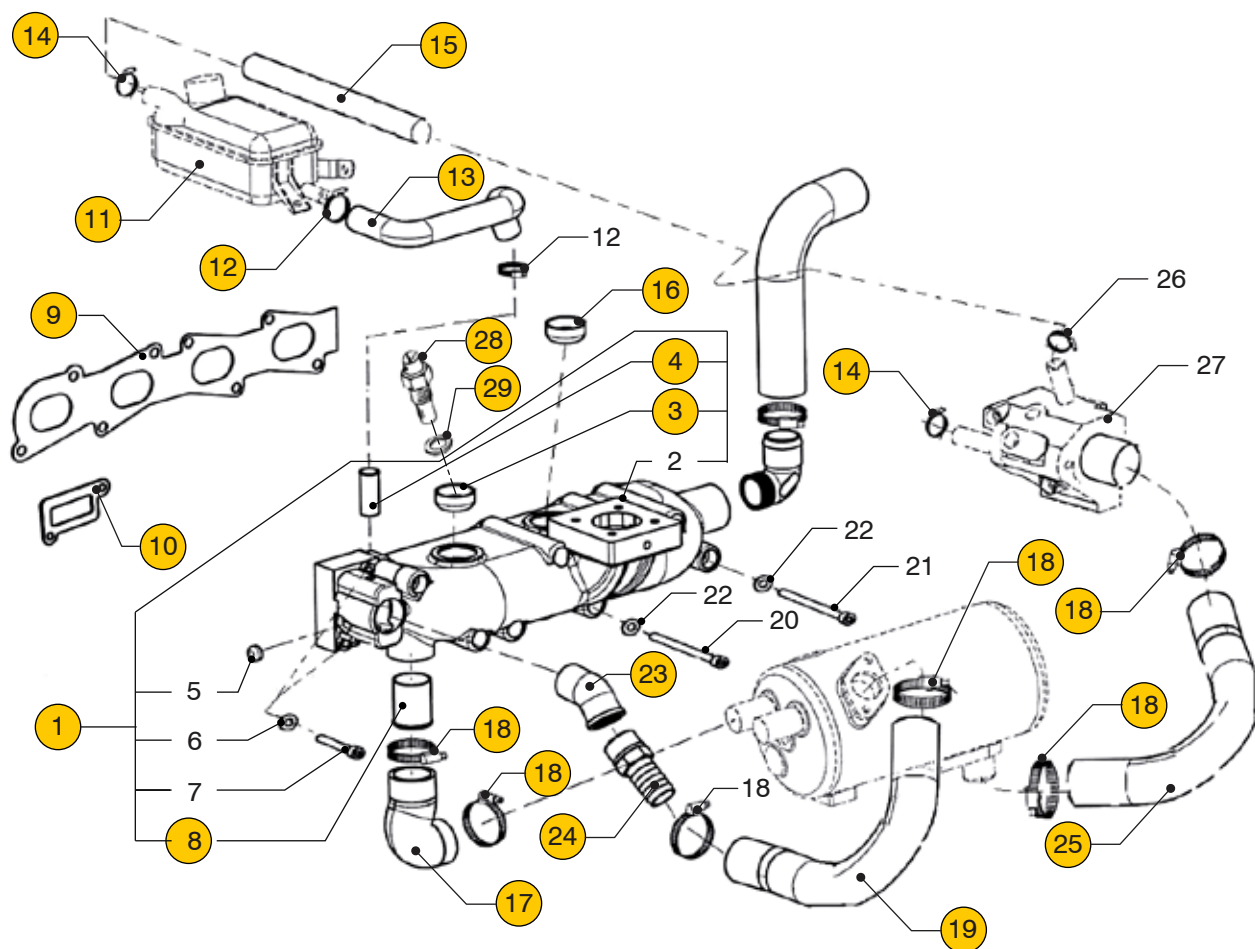


**VF4.145 VF4.200**  
**VF4.180**

#### **Uitlaat injectiebocht**

#### **Exhaust injection elbow**

| pos. | qty | part     | benaming                                           | description                                |
|------|-----|----------|----------------------------------------------------|--------------------------------------------|
| 1    | 1   | VFP01252 | Verbinding                                         | Connection                                 |
| 2    | 2   | HCS25    | Slangklem 21-44                                    | Clamp 21-44                                |
| 3    | 1   | VFP01386 | Gevormde slang VF4                                 | Sleeve VF4                                 |
| 4    | 1   | VP000328 | Uitlaatinjectiebocht VF4 voor versie met keerkopp. | Exhaust elbow VF4 for version with gearbox |
| 5    | 1   | VFP01388 | Pakking                                            | Gasket                                     |
| 6    | 1   | VFP01389 | C klem                                             | C-clamp                                    |
| 7    | 1   | STM2006  | Temp. schak. 75° M18x1,5                           | Thermo switch 75° M 18x1.5                 |
| 8    | 1   | STM2019  | Koperen dichtring M18                              | Sealing M18                                |

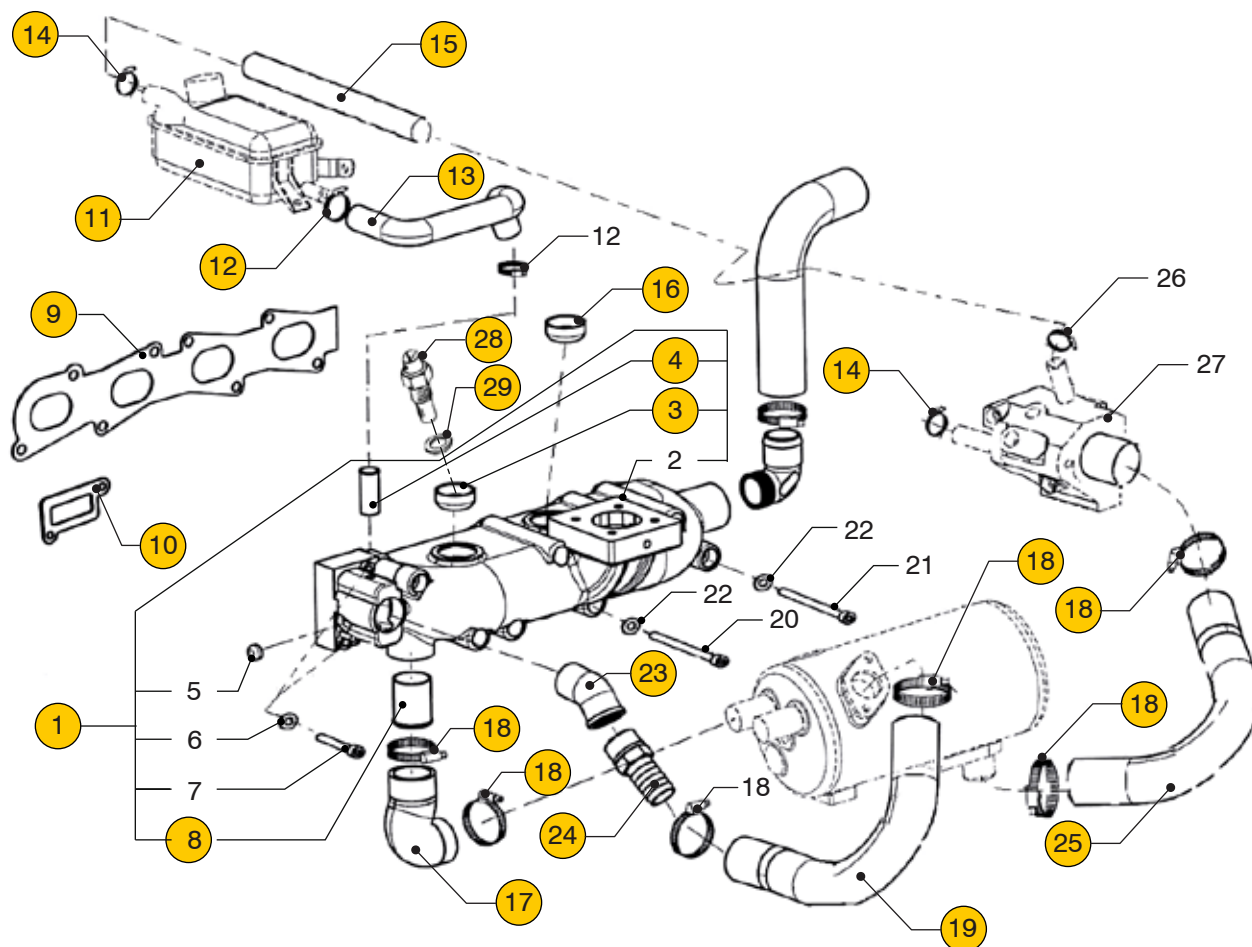


**VF4.145 VF4.200**  
**VF4.180**

**Uitlaatspruitstuk**

**Exhaust manifold**

| pos. | qty | part     | benaming                     | description                   |
|------|-----|----------|------------------------------|-------------------------------|
| 1    | 1   | VP000329 | Uitlaatspruitstuk compl. VF4 | Compleet exhaust manifold VF4 |
| 2    | 1   | VFP01363 | Uitlaatspruitstuk huis VF4   | Exhaust manifold body VF4     |
| 3    | 4   | VP000398 | Plug D.32                    | Plug D.32                     |
| 4    | 1   | VFP01365 | Pijp                         | Pipe                          |
| 5    | 1   | VFP01029 | Plug D.16                    | Plug D.16                     |
| 6    | 2   | DM10360  | Ring M6                      | Washer M6                     |
| 7    | 2   | DM10361  | Bout M6x35                   | Bolt M6x35                    |
| 8    | 1   | VP000390 | Pijp                         | Pipe                          |
| 9    | 1   | VFP01372 | Pakking                      | Gasket                        |
| 10   | 1   | VFP01795 | Pakking                      | Gasket                        |
| 11   | 1   | VFP01496 | Tank                         | Tank                          |
| 12   | 2   | HCS16    | Slangklem 14-27              | Clamp 14-27                   |
| 13   | 1   | VFP01374 | Gevormde slang               | Hose                          |
| 14   | 2   | VP000391 | Klik klem                    | Clic Clamp                    |
| 15   | 1   | VFP01224 | Slang                        | Silicon or rubber pipe        |
| 16   | 2   | VFP01364 | Plug D.32                    | Plug D.32                     |
| 17   | 1   | DM10369  | Gevormde slang               | Sleeve                        |
| 18   | 8   | HCS25    | Slangklem                    | Clamp                         |

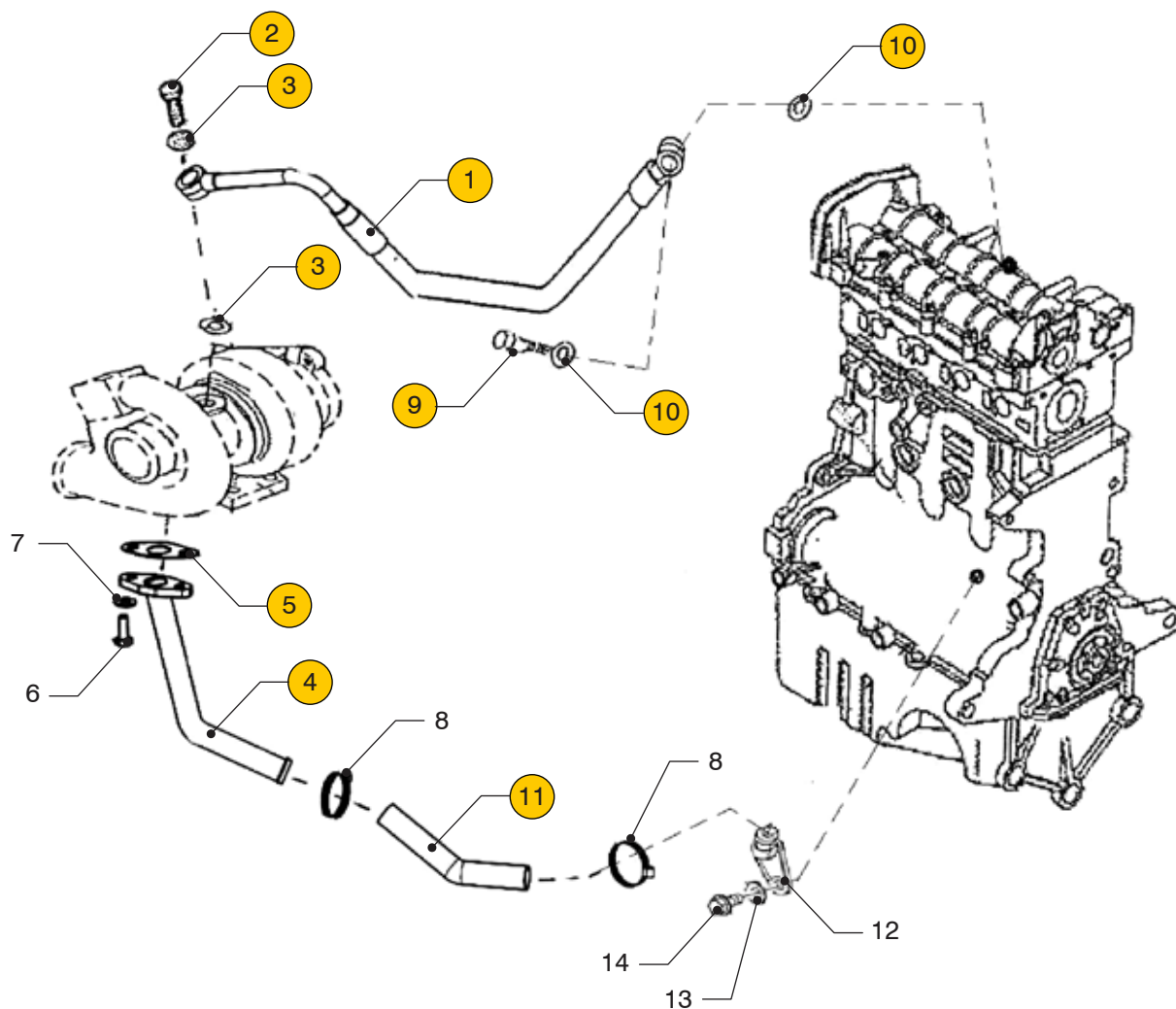


**VF4.145 VF4.200**  
**VF4.180**

### Uitlaatspruitstuk

### Exhaust manifold

| pos. | qty | part     | benaming          | description        |
|------|-----|----------|-------------------|--------------------|
| 19   | 1   | VFP01791 | Gevormde slang    | Sleeve             |
| 20   | 2   | DM10372  | Bout M6x35        | Bolt M6x35         |
| 21   | 6   | DM10373  | Bout M 8x1,25x100 | Bolt M 8x1.25x100  |
| 22   | 2   | DM10375  | Ring M6           | Washer M6          |
| 23   | 1   | VFP01369 | Verbinding        | Junction           |
| 24   | 1   | VP000072 | Slangpilaar       | Hose pillar        |
| 25   | 1   | VFP01487 | Gevormde slang    | Sleeve             |
| 26   | 1   | DM10380  | Slangklem         | Clamp              |
| 27   | 1   | DM10381  | Thermostaat huis  | Thermostat housing |
| 28   | 2   | VFP01354 | Zinkanode         | Zinc anode         |
| 29   | 2   | VFP01355 | Ring              | Copper washer      |

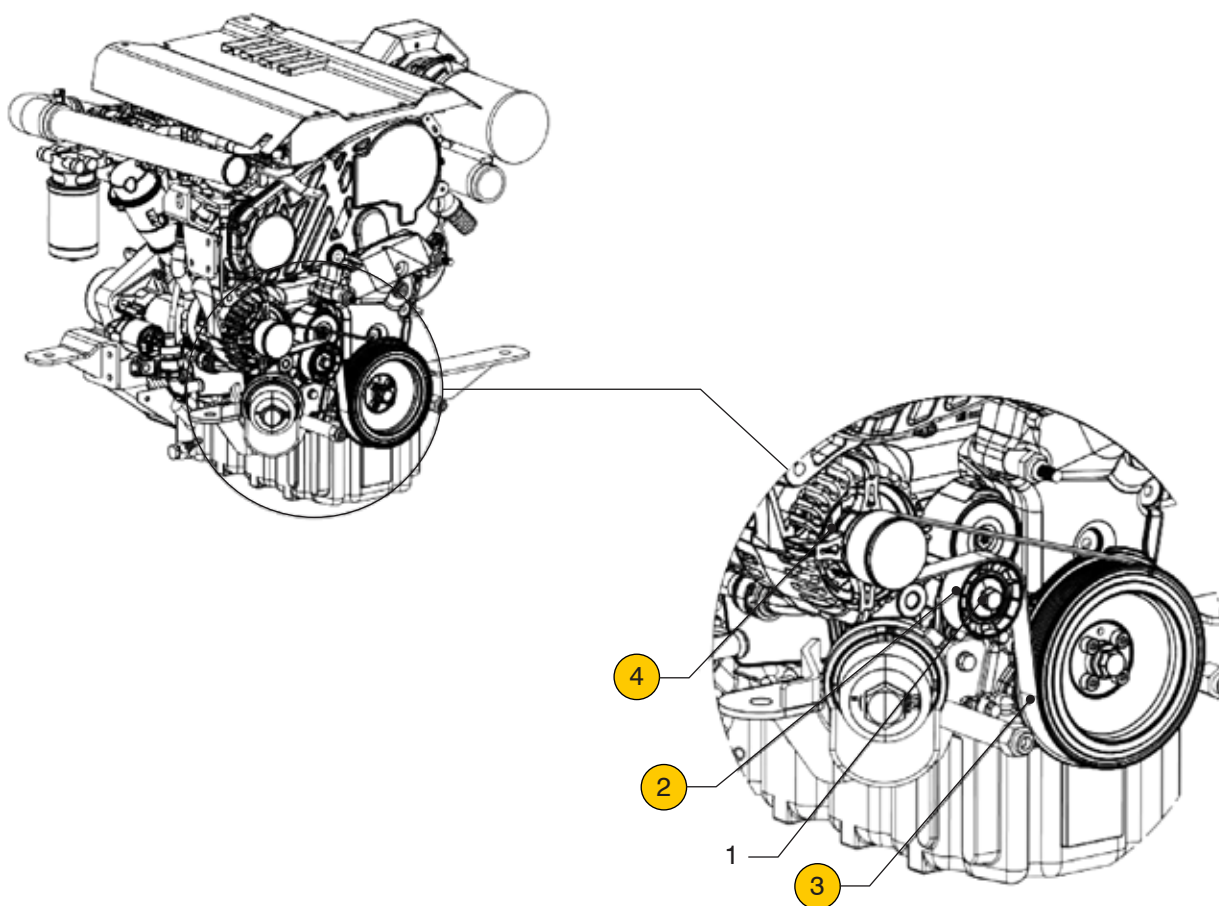


VF4.145 VF4.200  
VF4.180

#### Smeeroliesysteem voor turbocompressor

#### Lubrication system for turbocharger

| pos. | qty | part     | benaming                          | description                 |
|------|-----|----------|-----------------------------------|-----------------------------|
| 1    | 1   | VP000333 | Pijp olietoevoer turbo VF4        | Pipe oil delivery turbo VF4 |
| 2    | 1   | VFP01443 | Banjo bout                        | Banjo bolt                  |
| 3    | 2   | VFP01444 | Ring M10                          | Washer M10                  |
| 4    | 1   | VP000334 | Retour slang olie turbo VF4       | Oil return hose turbo VF4   |
| 5    | 1   | VFP01446 | Pakking                           | Gasket                      |
| 6    | 2   | DM10406  | Bout M6x16                        | Bolt M6x16                  |
| 7    | 2   | DM10407  | Ring M6                           | Washer M6                   |
| 8    | 2   | DM10408  | Slangklem 14-27                   | Clamp 14-27                 |
| 9    | 1   | VFP01450 | Banjo bout M12x1.5                | Banjo bolt M12x1.5          |
| 10   | 2   | VFP01451 | Koper ring M12                    | Copper washer M12           |
| 11   | 1   | VFP01437 | Olieslang D.16 L= 0,20 mt.        | Oil hose D.16 L= 0.20 mt.   |
| 12   | 1   | DM10412  | Slangpilaar retour olie van turbo | Assembled junction          |
| 13   | 2   | DM10413  | Ring M8                           | Washer M8                   |
| 14   | 2   | DM10414  | Bout M8X16                        | Bolt M8X16                  |

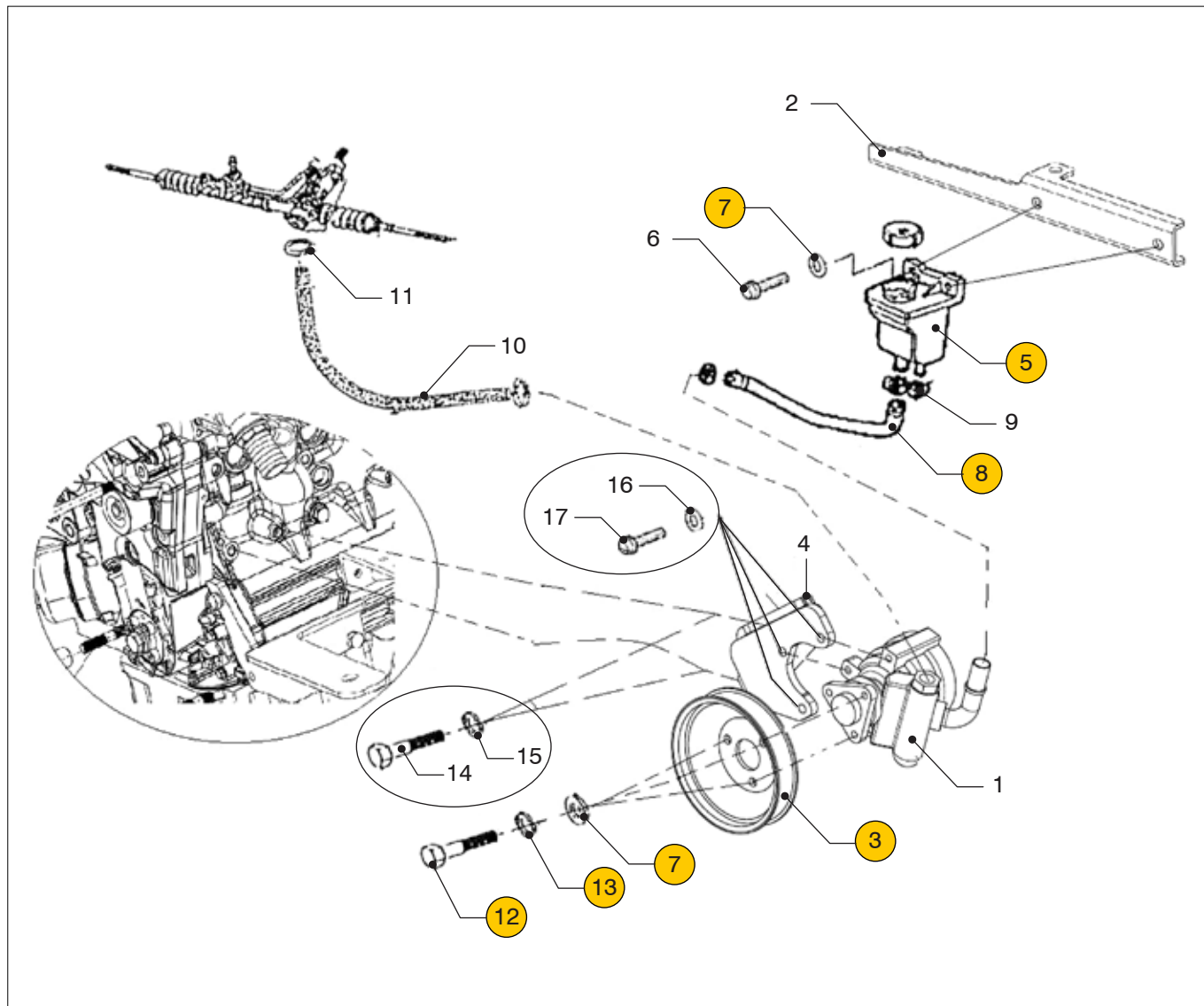


**VF4.145 VF4.200  
VF4.180**

# **Riemaandrijving dynamo**

# **Belt drive alternator**

| pos. | qty | part     | benaming            | description               |
|------|-----|----------|---------------------|---------------------------|
| 1    | 1   | DM10042  | Bout M10x70         | Bolt M10x70               |
| 2    | 1   | VP000307 | Riem spanner dynamo | Belt stretcher alternator |
| 3    | 1   | VP000338 | Riem dynamo         | Belt alternator           |
| 4    | 1   | VP000339 | Dynamo              | Alternator                |

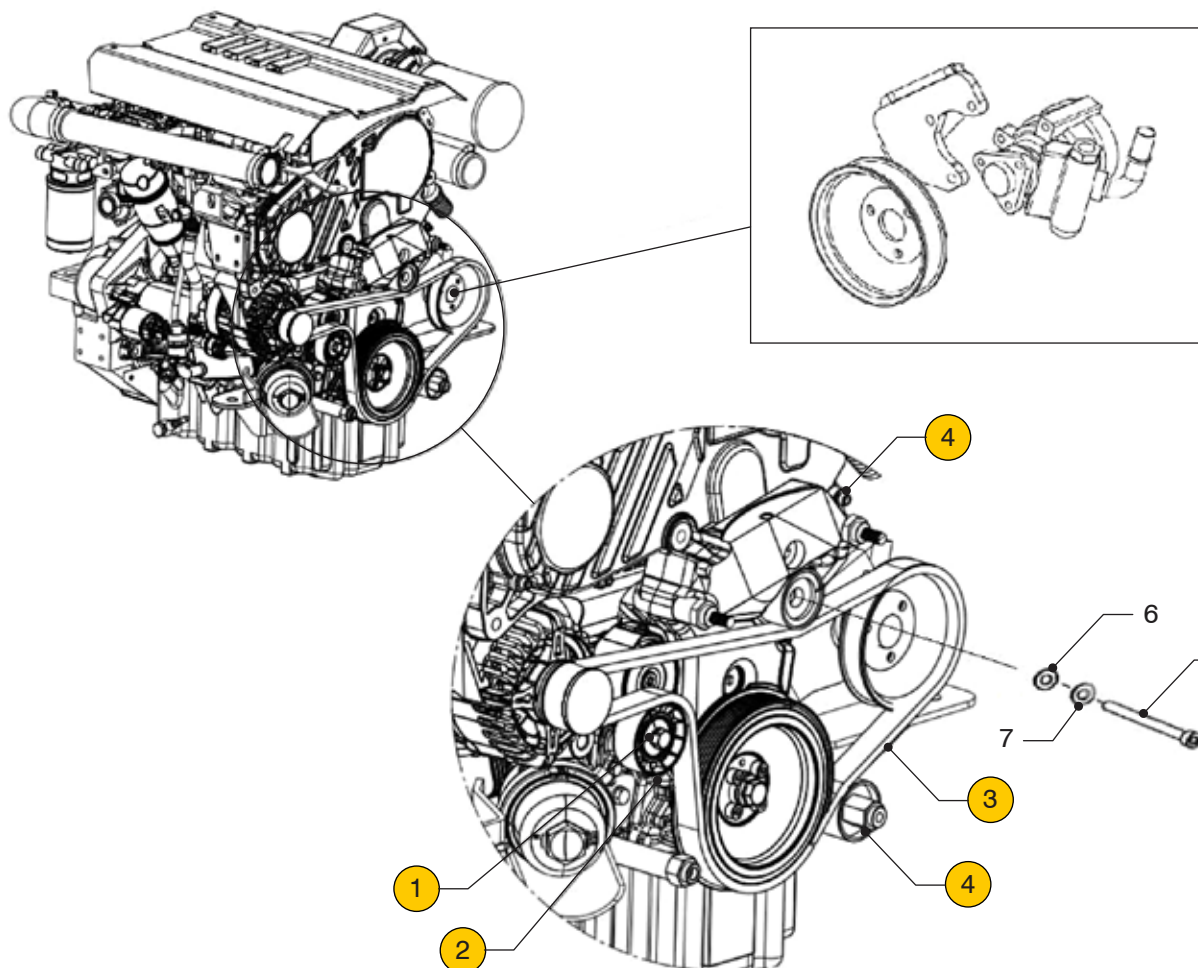


**VF4.145 VF4.200**  
**VF4.180**

### Hydraulische pomp

### Assembly hydraulic pump

| pos. | qty | part     | benaming         | description            |
|------|-----|----------|------------------|------------------------|
| 1    | 1   | DM10450  | Hydro pomp       | Hydraulic pump         |
| 2    | 1   | DM10451  | Steun            | Support                |
| 3    | 1   | VP000394 | Poelie oliepom   | Pulley oil pump        |
| 4    | 1   | DM10453  | Steun            | Support                |
| 5    | 1   | VFP01164 | Tank             | Tank                   |
| 6    | 2   | DM10455  | Bout M8X1,25x20  | Bolt M8X1.25x20        |
| 7    | 2   | VP000395 | Ring M8          | Washer M8              |
| 8    | 1   | VFP01437 | Slang            | Silicon or rubber pipe |
| 9    | 2   | DM10458  | Slangklem 14-27  | Clamp 14-27            |
| 10   | 1   | DM10459  | Slang            | Silicon or rubber pipe |
| 11   | 2   | DM10460  | Slangklem 11-20  | Clamp 11-20            |
| 12   | 3   | VFP01733 | Bout M8X1,25x20  | Bolt M8X1.25x20        |
| 13   | 3   | VFP01057 | Ring M8          | Washer M8              |
| 14   | 2   | DM10463  | Bout M10x1,25x30 | Bolt M10x1.25x30       |
| 15   | 2   | DM10464  | Ring M10         | Washer M10             |
| 16   | 3   | DM10465  | Ring M8          | Washer M8              |
| 17   | 3   | DM10466  | Bout M8X1,25x25  | Bolt M8X1.25x25        |

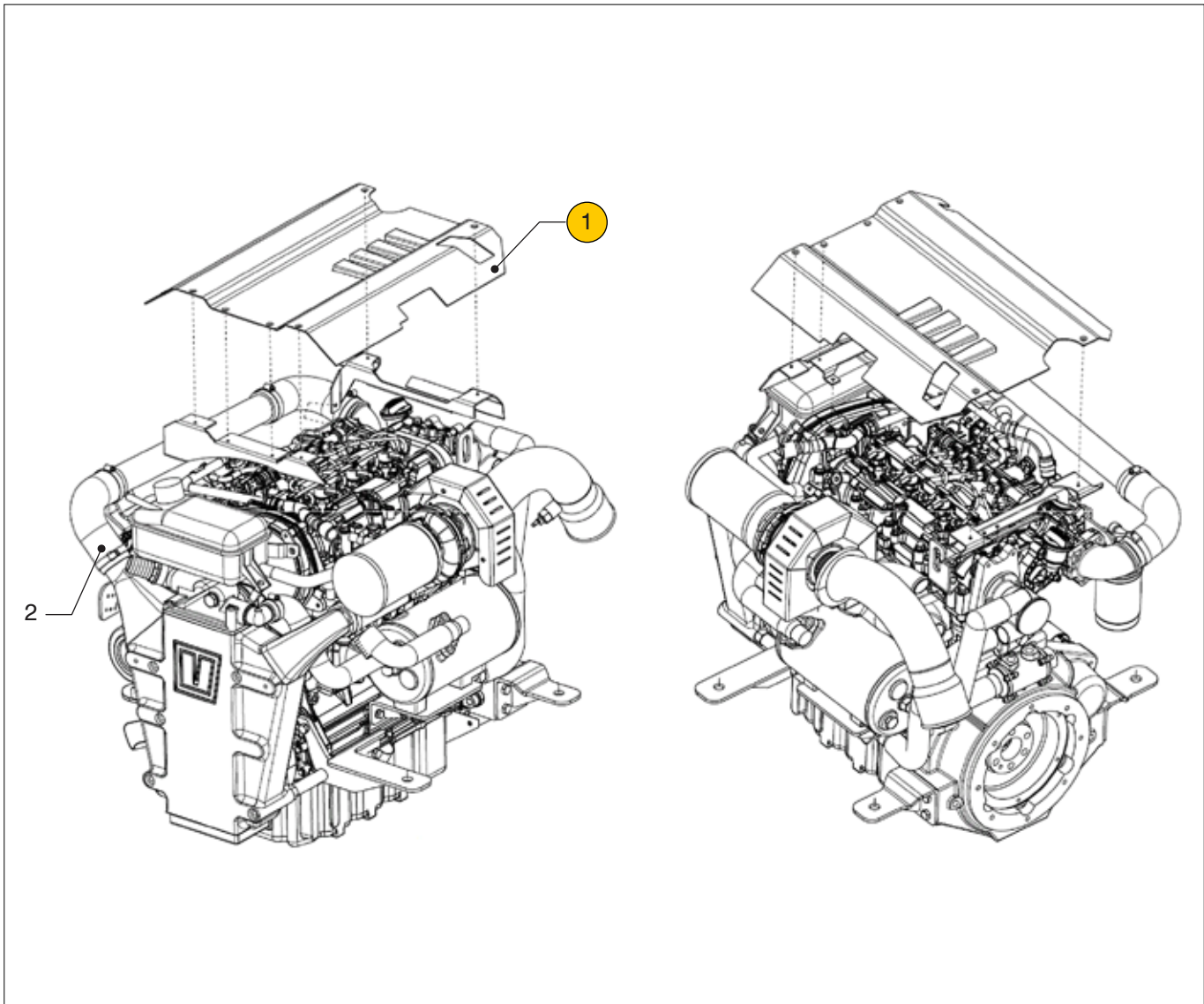


**VF4.145 VF4.200**  
**VF4.180**

# **Distributie systeem hydr.pomp**

# **Distribution system hydr.pump**

| pos. | qty | part     | benaming            | description        |
|------|-----|----------|---------------------|--------------------|
| 3    | 1   | VP000336 | Bout M10X70         | Bolt M10X70        |
| 2    | 1   | VP000337 | Riem spanner        | Belt stretcher     |
| 3    | 1   | VP000382 | Riem voor hydr.pomp | Belt for hydr.pump |
| 4    | 2   | VP000396 | Lager               | Bearing            |
| 5    | 1   | DM10479  | Bout M8X1,25x30     | Bolt M8X1.25x30    |
| 6    | 1   | DM10480  | Ring M10            | Washer M10         |
| 7    | 1   | DM10481  | Ring M10            | Washer M10         |

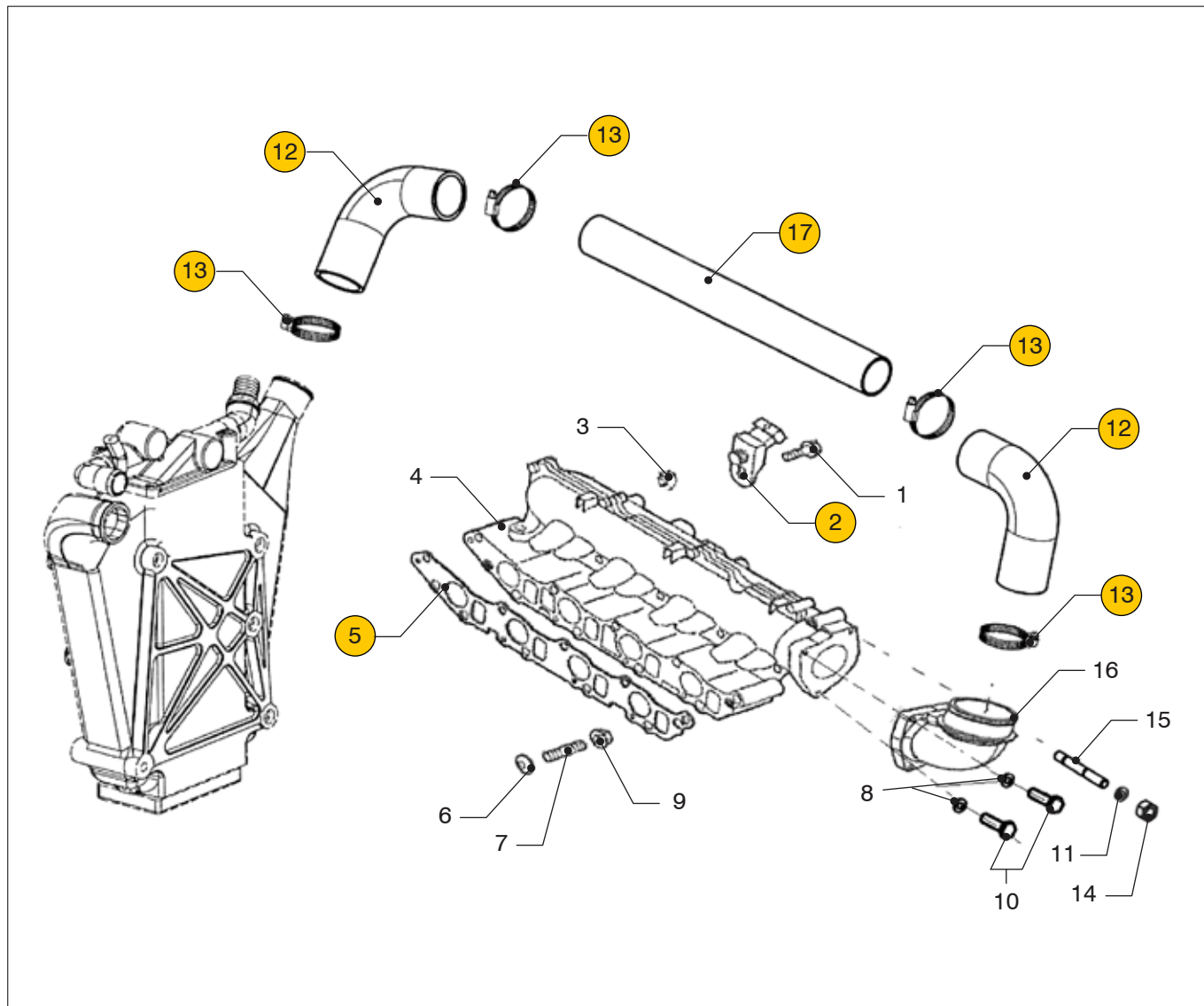


VF4.145 VF4.200  
VF4.180

Motorblok koeldekse

Engine block cooling cover

| pos. | qty | part     | benaming            | description                |
|------|-----|----------|---------------------|----------------------------|
| 1    | 1   | VP000341 | Motorblok koeldekse | Engine block cooling cover |
| 2    | 1   | DM10022  | Motorblok VF4       | Longblock assembly VF4     |

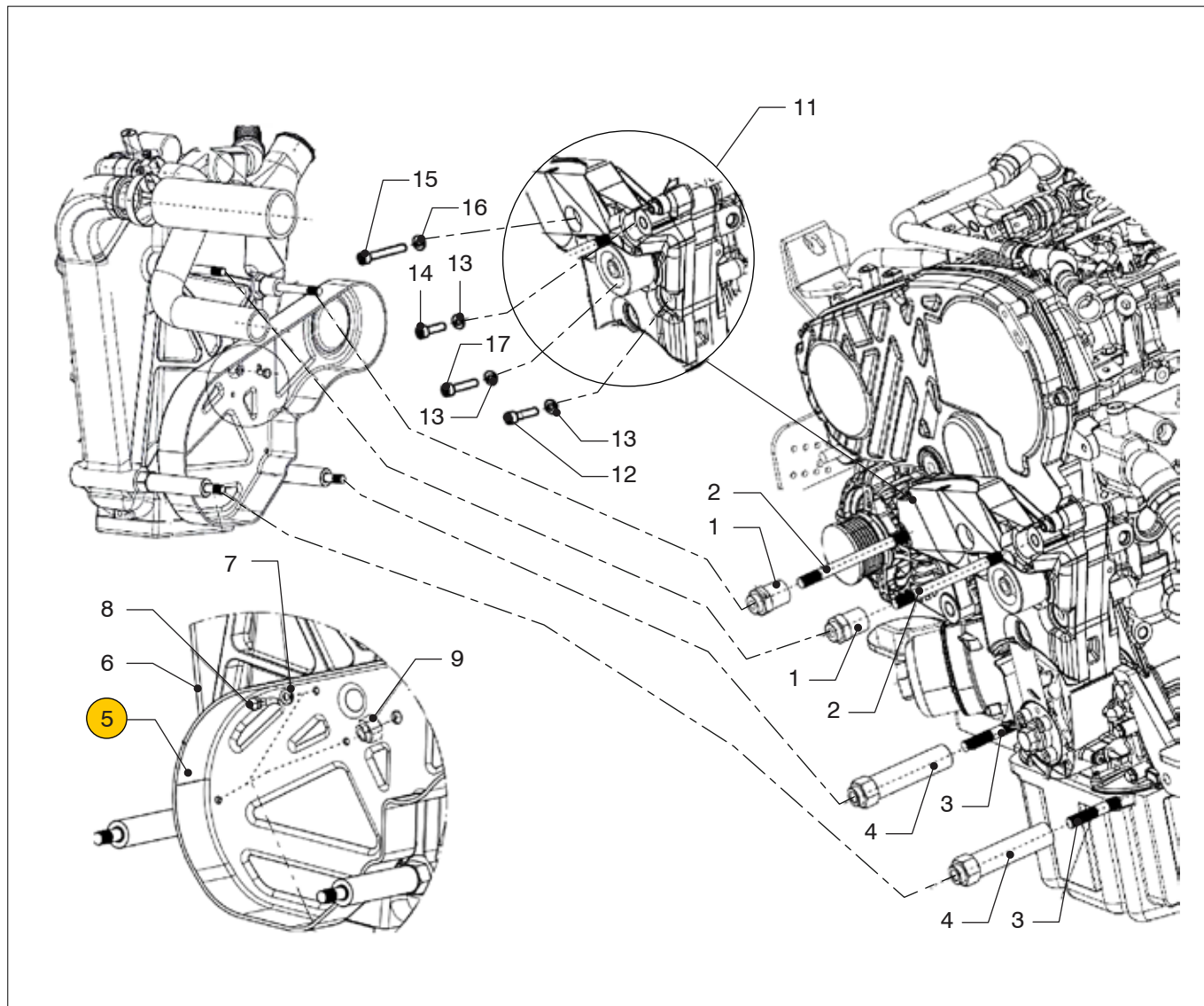


**VF4.145 VF4.200**  
**VF4.180**

### Inlaatspruitstuk

### Intake manifold

| pos. | qty | part     | benaming                   | description              |
|------|-----|----------|----------------------------|--------------------------|
| 1    | 1   | VFP01051 | Bout M6x16                 | Bolt M6x16               |
| 2    | 1   | VP000342 | Luchtdruktzender           | Air pressure transmitter |
| 3    | 2   | VFP01285 | Borgmoer M6                | Lock nut M6              |
| 4    | 1   | DM10492  | Inlaat spruitstuk          | Intake manifold assy     |
| 5    | 1   | VFP01775 | Pakking                    | Gasket                   |
| 6    | 9   | DM10494  | Ring M8                    | Washer M8                |
| 7    | 9   | VFP01202 | Draadeind M8               | Stud M8                  |
| 8    | 3   | R062R    | Ring M6                    | Washer M6                |
| 9    | 9   | VFP01205 | Borgmoer M8                | Lock nut M8              |
| 10   | 2   | VFP01088 | Bout M6x30                 | Bolt M6x30               |
| 11   | 3   | R062R    | Ring M6                    | Washer M6                |
| 12   | 1   | VFP01315 | Bochtstuk luchtinlaat      | Sleeve                   |
| 13   | 4   | HCS50    | Slangklem 46-70            | Clamp 46-70              |
| 14   | 1   | DM10498  | Moer M6                    | Nut M6                   |
| 15   | 1   | VFP01308 | Draadeind M6               | Stud M6                  |
| 16   | 1   | VFP01305 | Bochtstuk inlaatspruitstuk | Inlet intake cover       |
| 17   | 1   | VFP01316 | Pijp D.50                  | Pipe D.50                |

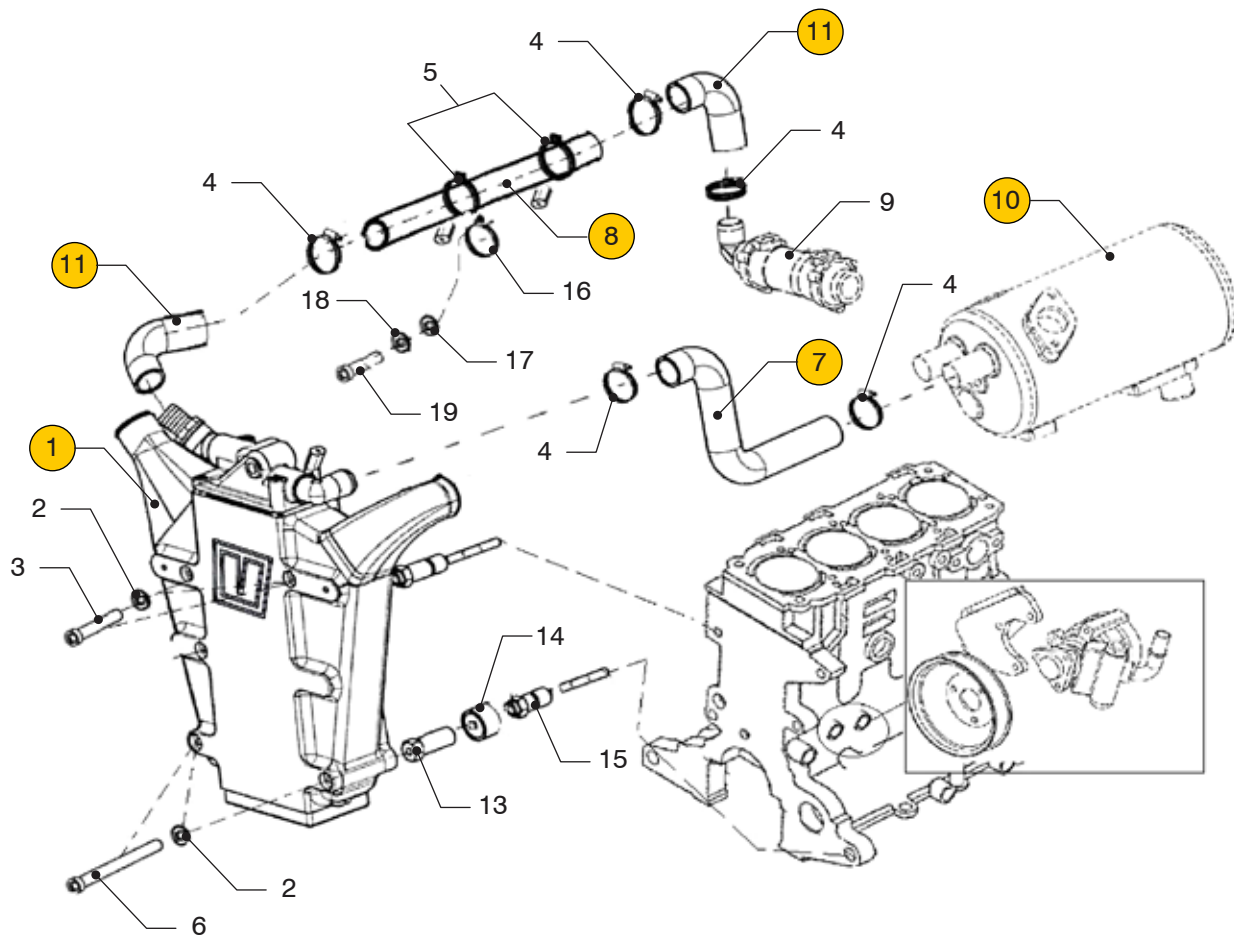


**VF4.145 VF4.200**  
**VF4.180**

### Interkoeling group

### Intercooling group

| pos. | qty | part    | benaming               | description                     |
|------|-----|---------|------------------------|---------------------------------|
| 1    | 2   | DM10550 | Speciale bout          | Special bolt                    |
| 2    | 2   | DM10551 | Draadeind M10x1,25x100 | Stud M10x1.25x100               |
| 3    | 2   | DM10552 | Draadeind M10x1,25x105 | Stud M10x1.25x105               |
| 4    | 2   | DM10553 | Speciale bout          | Special bolt                    |
| 5    | 1   | DM10158 | Deksel                 | Cover                           |
| 6    | 1   | DM10555 | Interkoeler group      | Preassembled groep intercooling |
| 7    | 4   | DM10556 | Ring M5                | Washer M5                       |
| 8    | 4   | DM10557 | Bout M5X10             | Bolt M5X10                      |
| 9    | 1   | DM10558 | Moer M10               | Nut M10                         |
| 10   | 1   | DM10559 | Draadeind M10x1,25x110 | Stud M10x1.25x110               |
| 11   | 1   | DM10560 | Steun                  | Support                         |
| 12   | 1   | DM10561 | Bout M8X1,25x50        | Bolt M8X1.25x50                 |
| 13   | 2   | DM10562 | Ring M8                | Washer M8                       |
| 14   | 1   | DM10563 | Bout M8X1,25x65        | Bolt M8X1.25x65                 |
| 15   | 1   | DM10564 | Bout M10X1,25x80       | Bolt M10X1.25x80                |
| 16   | 1   | DM10565 | Ring M10               | Washer M10                      |
| 17   | 1   | DM10566 | Bout M8X30             | Bolt M8X30                      |
| 18   | 1   | DM10567 | Ring M8                | Washer M8                       |

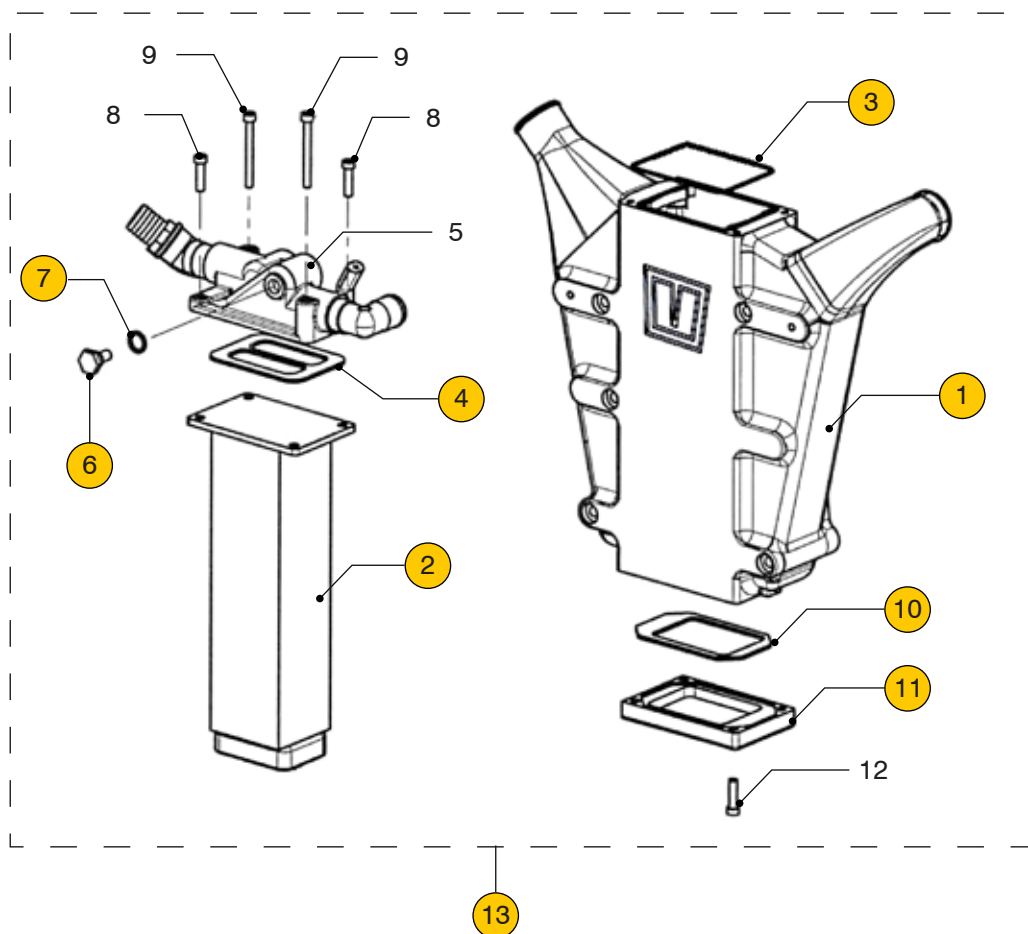


**VF4.145 VF4.200  
VF4.180**

**Inlaatluchtkoeler, bevestiging en aansluitingen**

**Intercooler, fastenings and connections**

| pos. | qty | part     | benaming                   | description                 |
|------|-----|----------|----------------------------|-----------------------------|
| 1    | 1   | VFP01317 | Inlaatluchtkoeler compleet | Intercooler assy            |
| 2    | 5   | VFP01319 | Ring M10                   | Washer M10                  |
| 3    | 2   | DM10572  | Bout                       | Bolt                        |
| 4    | 6   | VFP01253 | Slangklem 21-44            | Clamp 21-44                 |
| 5    | 2   | VFP01348 | Slangklem RSG1             | Clamp RSG1                  |
| 6    | 5   | VFP01318 | Bout M10x1,25x110          | Bolt M10x1.25x110           |
| 7    | 1   | VFP01327 | Gevormde slang             | Hose                        |
| 8    | 1   | DM10573  | Pijp                       | Hose                        |
| 9    | 1   | DM10574  | Keerkoppeling koeler       | Gearbox oil cooler          |
| 10   | 1   | VFP01260 | Warmte wisselaar           | Preassembled heat exchanger |
| 11   | 1   | VFP01256 | Waterslang D.32 L=0,30 mt. | Water hose D.32 L=0.30 mt.  |
| 13   | 1   | DM10577  | Afstandsbus                | Spacer                      |
| 14   | 1   | DM10578  | Lager                      | Bearing                     |
| 15   | 1   | DM10579  | Speciale moer              | Special nut                 |

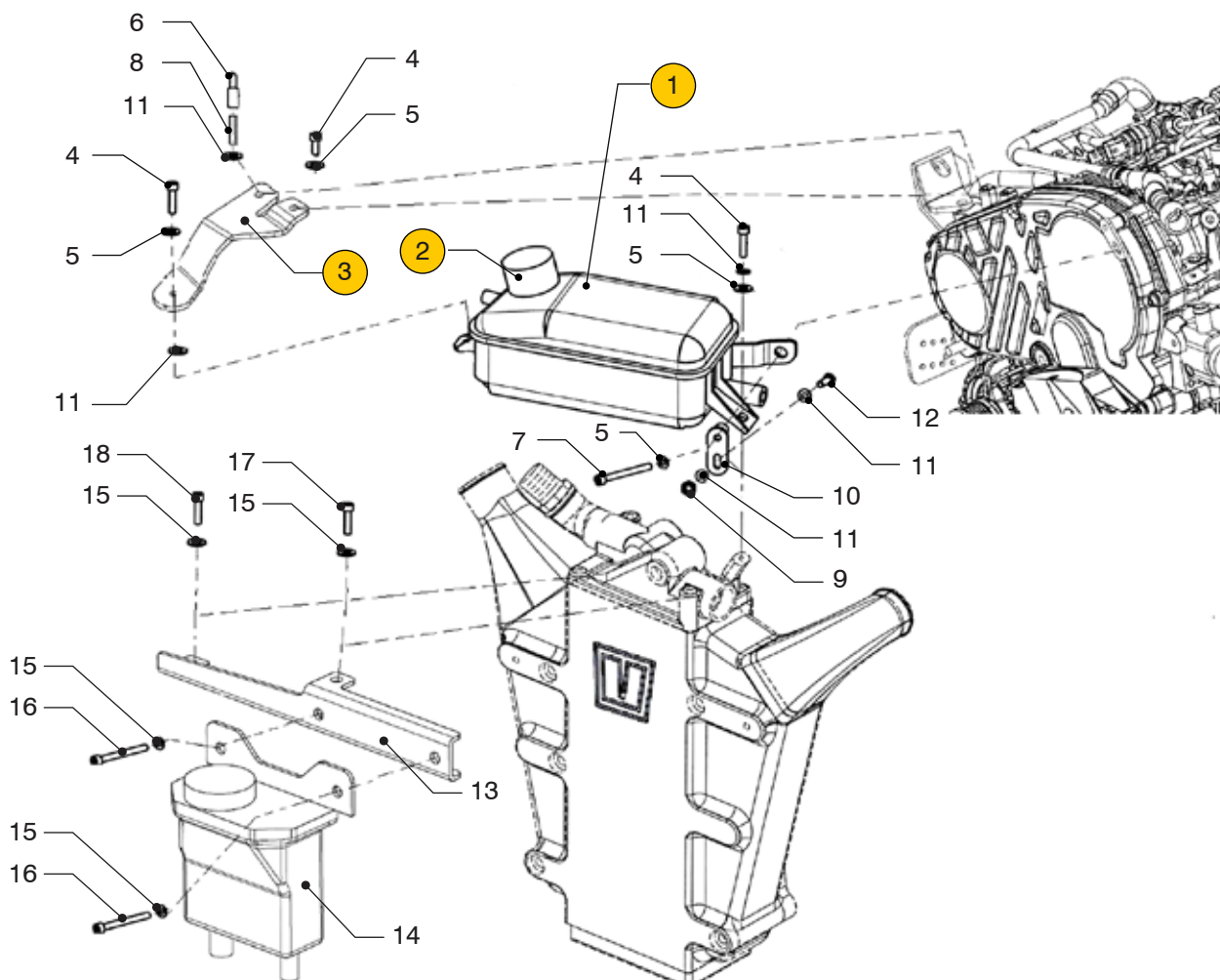


**VF4.145 VF4.200**  
**VF4.180**

#### Inlaatluchtkoeler

#### Intercooler

| pos. | qty | part     | benaming                   | description          |
|------|-----|----------|----------------------------|----------------------|
| 1    | 1   | VFP01317 | Inlaatluchtkoeler huis     | Intercooler house    |
| 2    | 1   | VFP01350 | Inlaatluchtkoeler element  | Intercooler element  |
| 3    | 1   | VFP01351 | O-ring                     | O-ring               |
| 4    | 1   | VFP01352 | Pakking                    | Gasket               |
| 5    | 1   | VFP01353 | Deksel                     | Cover assy           |
| 6    | 1   | VFP01354 | Zinkanode                  | Zinc anode           |
| 7    | 1   | VFP01355 | Koperring                  | Copper ring          |
| 8    | 2   | VFP01230 | Bout M8x1,25x30            | Bolt M8x1.25x30      |
| 9    | 2   | VFP01357 | Bout M8x1,25x60            | Bolt M8x1.25x60      |
| 10   | 1   | VFP01358 | Pakking                    | Gasket               |
| 11   | 1   | VFP01359 | Deksel                     | Cover                |
| 12   | 4   | DM10581  | Bout M8x1,25x25            | Bolt M8x1.25x25      |
| 13   | 1   | VFP01317 | Inlaatluchtkoeler compleet | Intercooler assembly |

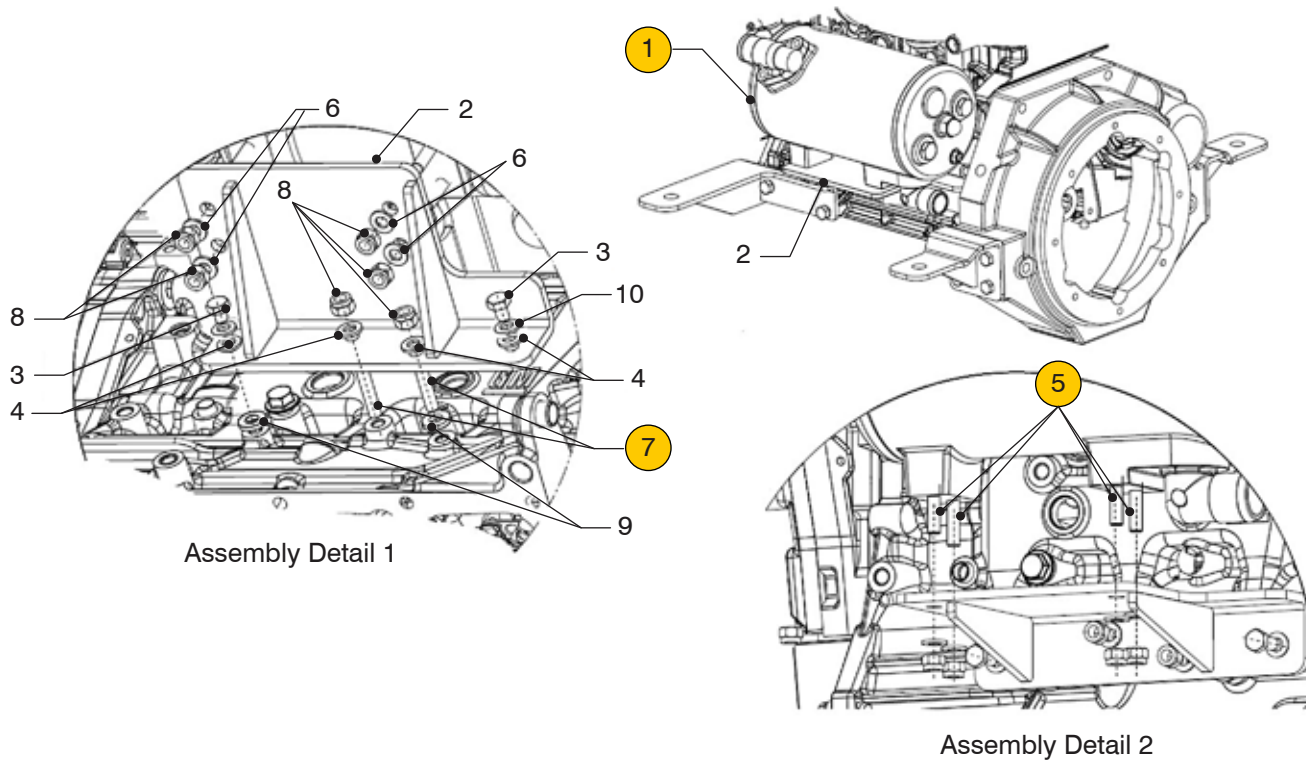


**VF4.145 VF4.200**  
**VF4.180**

### Expansietank

### Expansion tank

| pos. | qty | part     | benaming      | description    |
|------|-----|----------|---------------|----------------|
| ①    | 1   | VFP01496 | Expansietank  | Expansion tank |
| ②    | 1   | VFP01497 | Dop           | Cap            |
| ③    | 1   | VP000397 | Steun         | Support        |
| 4    | 1   | DM10583  | Bout M6x16    | Bolt M6x16     |
| 5    | 1   | R062R    | Ring M6       | Washer M6      |
| 6    | 1   | DM10584  | Speciale bout | Special bolt   |
| 7    | 1   | DM10585  | Bout M6x60    | Bolt M6x50     |
| 8    | 1   | DM10586  | Draadeind     | Stud           |
| 9    | 1   | DM10587  | Borgmoer M6   | Lock nut M6    |
| 10   | 1   | VFP01508 | Steun         | Support        |
| 11   | 2   | VFP01500 | Ring M6       | washer M6      |
| 12   | 1   | VFP01089 | Bout M6x20    | Bolt M6x20     |
| 13   | 1   | DM10588  | Steun         | Support        |
| 14   | 1   | DM10589  | Tank          | Tank           |
| 15   | 4   | DM10590  | Ring          | Washer         |
| 16   | 2   | DM10591  | Bout M8x20    | Bolt M8x20     |
| 17   | 1   | DM10592  | Bout M8x70    | Bolt M8x70     |
| 18   | 1   | DM10593  | Bout M8x35    | Bolt M8x35     |

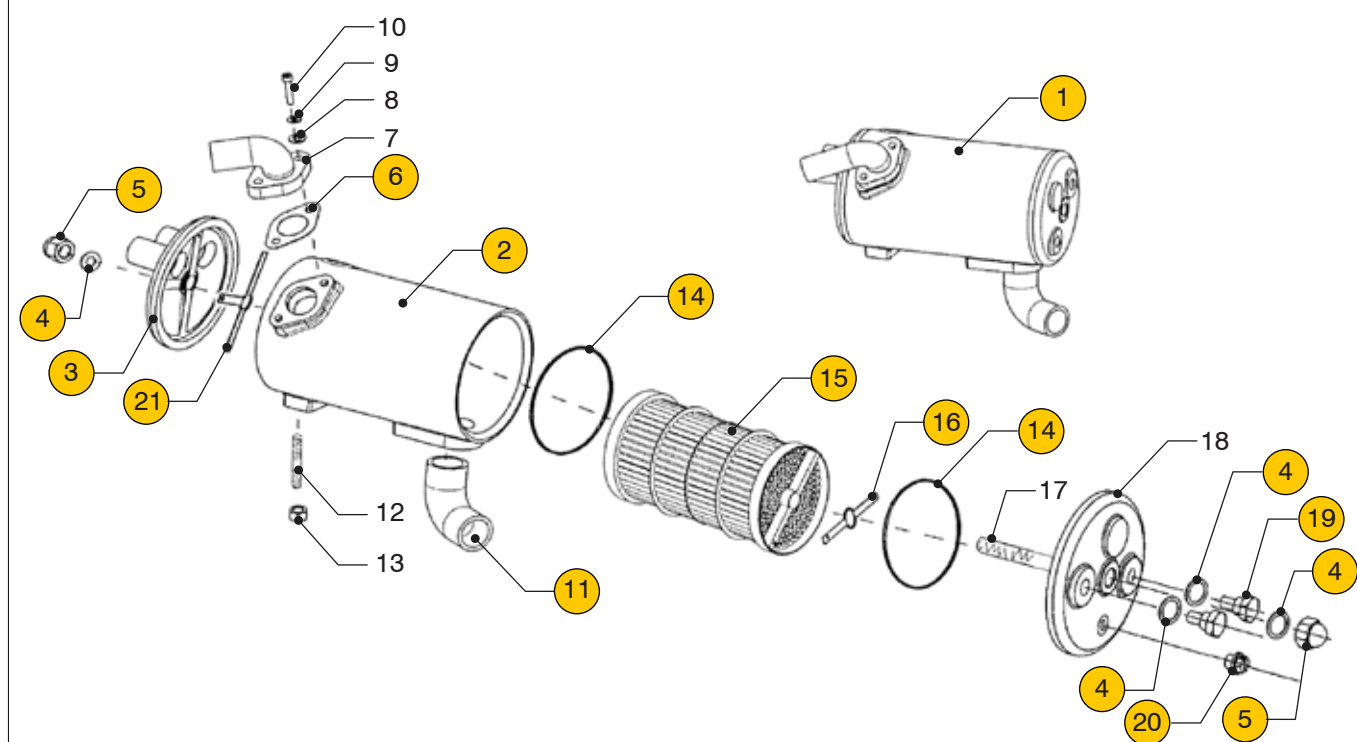


**VF4.145 VF4.200**  
**VF4.180**

**Warmtewisselaar**

**Heat exchanger**

| pos. | qty | part     | benaming        | description    |
|------|-----|----------|-----------------|----------------|
| 1    | 1   | VFP01515 | Warmtewisselaar | Heat exchanger |
| 2    | 1   | DM10601  | Steun           | Support        |
| 3    | 2   | DM10594  | Bout M8x20      | Bolt M8x20     |
| 4    | 2   | DM10595  | Ring M8         | Washer M8      |
| 5    | 4   | VFP01526 | Draadeind M8    | Stud M8        |
| 6    | 6   | DM10597  | Ring M8         | Washer M8      |
| 7    | 2   | VFP01279 | Draadeind M8    | Stud M8        |
| 8    | 6   | DM10599  | Moer M8         | Nut M8         |
| 9    | 2   | DM10705  | Ring M8         | Washer M8      |
| 10   | 2   | DM10706  | Ring M8         | Washer M8      |

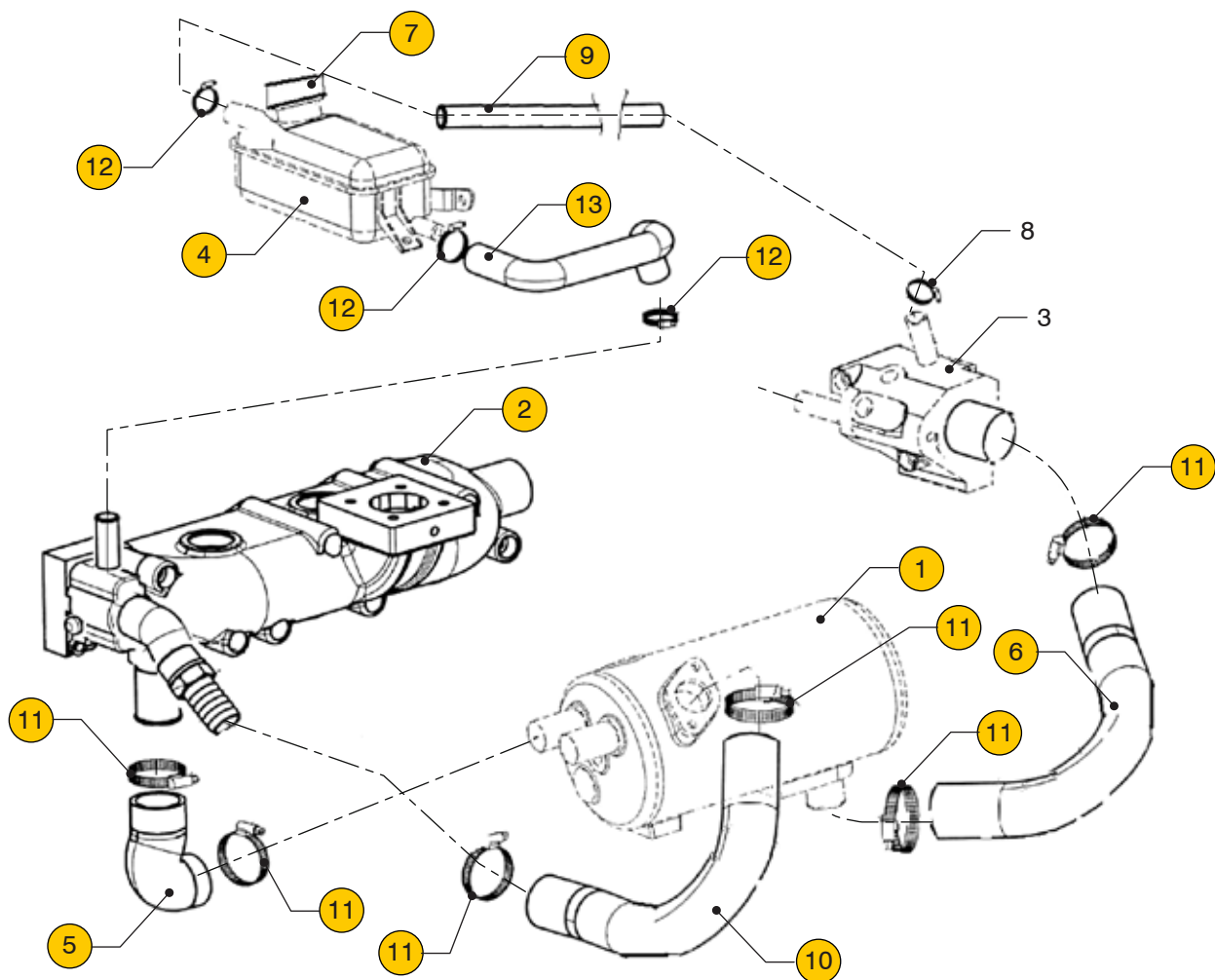


**VF4.145 VF4.200**  
**VF4.180**

**Warmtewisselaar**

**Heat exchanger**

| pos. | qty | part     | benaming                       | description          |
|------|-----|----------|--------------------------------|----------------------|
| 1    | 1   | VFP01515 | Warmtewisselaar                | Heat exchanger       |
| 2    | 1   | VFP01516 | Warmtewisselaar huis           | Body heat exchanger  |
| 3    | 1   | VP000375 | Warmtewisselaar aansluitdeksel | Heat exchanger cover |
| 4    | 4   | VP000377 | Ring M16                       | Washer M16           |
| 5    | 2   | DM10605  | Moer M16x2                     | Nut M16x2            |
| 6    | 1   | VP000377 | Pakking                        | Gasket               |
| 7    | 1   | DM10607  | Verbinding bocht               | Connection bend      |
| 8    | 2   | VFP01057 | Ring M8                        | Washer M8            |
| 9    | 2   | R062R    | Ring M6                        | Washer M6            |
| 10   | 2   | VFP01230 | Bout M8x1,25x30                | Bolt M8x1.25x30      |
| 11   | 1   | DM10609  | Verbinding slang               | Connection hose      |
| 12   | 3   | VFP01526 | Draadeind M8x1,25x32           | Stud M8x1.25x32      |
| 13   | 3   | VFP01205 | Moer M8                        | Nut M8               |
| 14   | 2   | VP000377 | O-ring                         | O-ring               |
| 15   | 1   | VFP01529 | Pijpenbundel                   | Exchanger            |
| 16   | 1   | VFP01530 | Pakking                        | Gasket               |
| 17   | 1   | VFP01531 | Draadeind M16x2                | Threaded rod M16x2   |
| 18   | 1   | VP000376 | Warmtewisselaar omkeer deksel  | Heat exchanger cover |
| 19   | 1   | VP000377 | Zinkanode                      | Zinc anode           |
| 20   | 1   | DM10612  | Plug                           | Plug                 |
| 21   | 1   | VP000377 | Pakking                        | Gasket               |

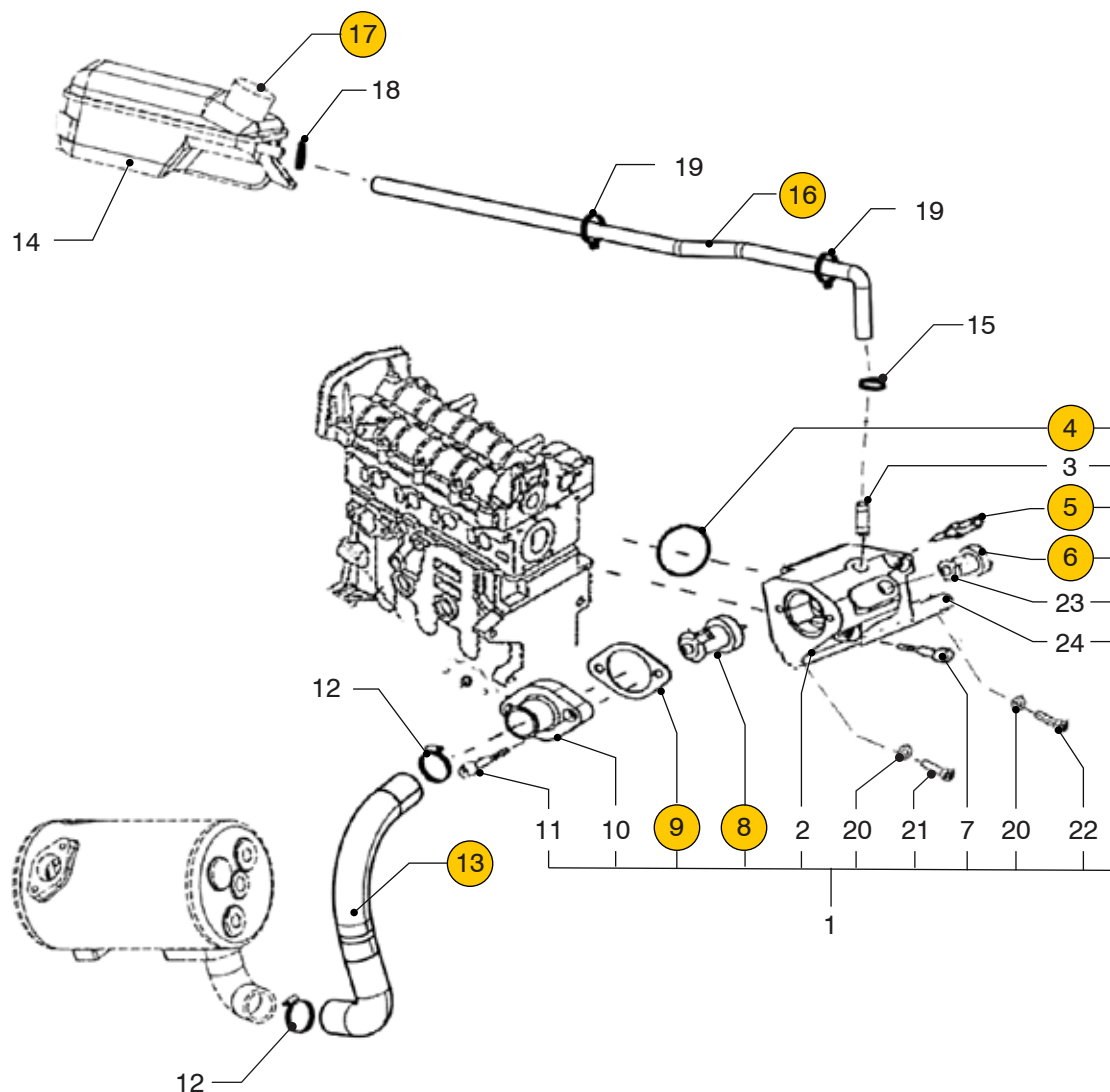


**VF4.145 VF4.200  
VF4.180**

**Slangen, binnenwater en buitenwater**

**Hoses, coolant and seawater**

| pos. | qty | part     | benaming                              | description                         |
|------|-----|----------|---------------------------------------|-------------------------------------|
| 1    | 1   | VFP01515 | Warmtewisselaar                       | Heat exchanger                      |
| 2    | 1   | VP000329 | Preassembled group exhaust spruitstuk | Preassembled group exhaust manifold |
| 3    | 1   | DM10613  | Thermostaathuis                       | Thermostat housing                  |
| 4    | 1   | VFP01496 | Tank                                  | Tank                                |
| 5    | 1   | VFP01378 | Gevormde slang                        | Sleeve                              |
| 6    | 1   | VFP01487 | Gevormde slang                        | Sleeve                              |
| 7    | 1   | VFP01497 | Dop expansie tank                     | Assembled cap                       |
| 9    | 1   | VFP01224 | Slang                                 | Silicon or rubber pipe              |
| 10   | 1   | VFP01791 | Gevormde slang                        | Sleeve                              |
| 11   | 2   | HCS25    | Slangklem 21-44                       | Clamp 21-44                         |
| 12   | 2   | HCS16    | Slangklem 14-27                       | Clamp 14-27                         |
| 13   | 1   | VP000356 | Gevormde slang                        | Sleeve                              |

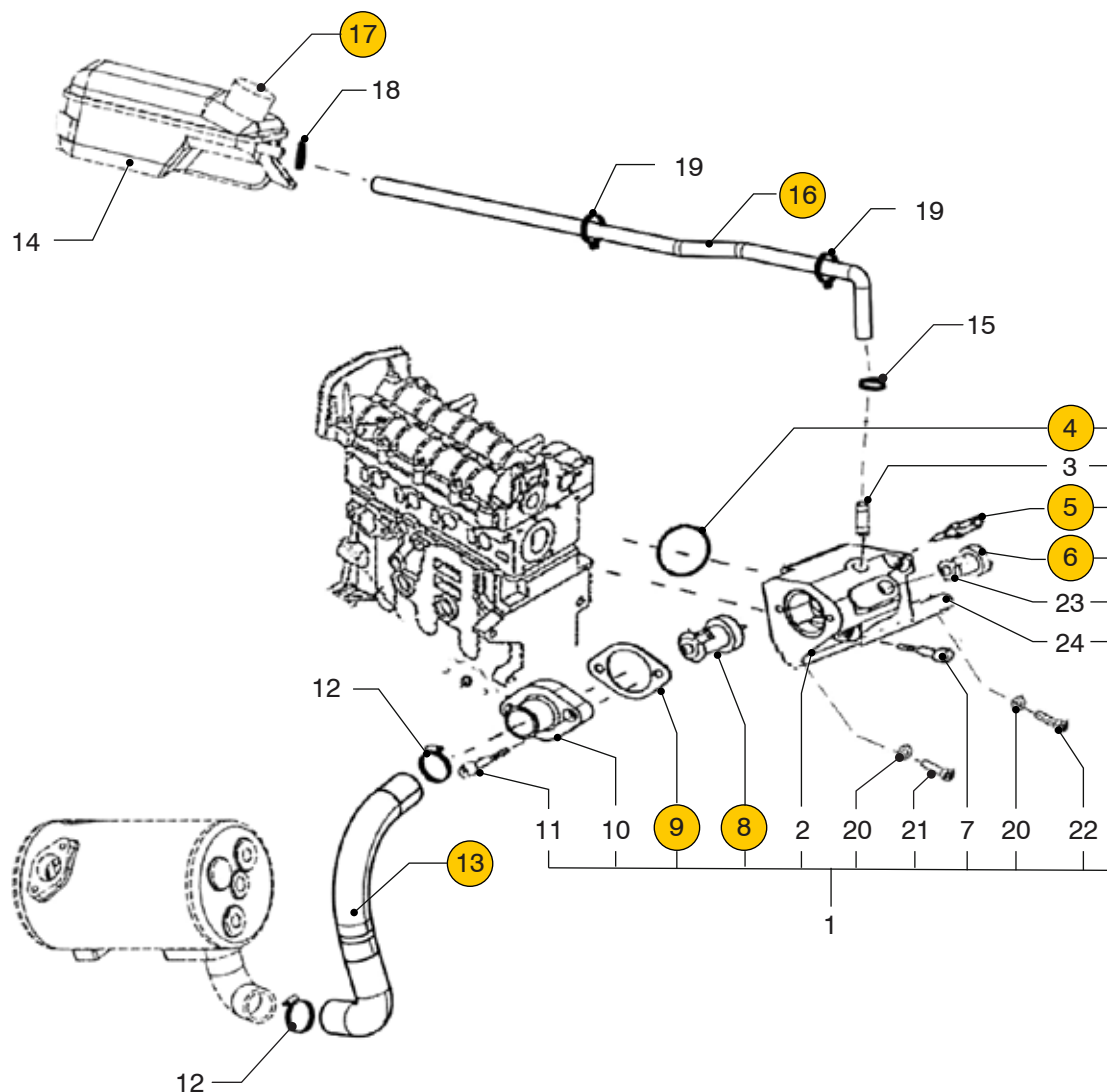


**VF4.145 VF4.200**  
**VF4.180**

# **Thermostaat**

# **Thermostat**

| pos. | qty | part     | benaming                       | description                |
|------|-----|----------|--------------------------------|----------------------------|
| 1    | 1   | DM10618  | Thermostaathuis compleet       | Thermostat assy            |
| 2    | 1   | DM10619  | Thermostaathuis                | Thermostat housing         |
| 3    | 1   | DM10620  | Verbinding                     | Connection                 |
| 4    | 1   | VP000392 | O-ring 55,25x2,62              | O-ring 55.25x2.62          |
| 5    | 1   | VFP01479 | Temp zender                    | Transmitter                |
| 6    | 1   | VP000399 | Temp schak.. 100°C             | Thermo switch 100°C        |
| 7    | 2   | DM10624  | Bout M8x1,25x85                | Bolt M8x1.25x85            |
| 8    | 1   | VFP01482 | Thermostaat                    | Thermostat valve           |
| 9    | 1   | VFP01483 | Pakking                        | Gasket                     |
| 10   | 1   | DM10627  | Verbinding thermostaathuis     | Connection thermostat body |
| 11   | 2   | DM10628  | Bout M8x1,25x20                | Bolt M8x1.25x20            |
| 12   | 2   | DM10629  | Slangklem 21-44                | Clamp 21-44                |
| 13   | 1   | VFP01487 | Gevormde slang                 | Sleeve                     |
| 14   | 5   | DM10631  | Tank                           | Clamp clic 14.5-16.5       |
| 15   | 1   | DM10632  | Slangklem 10-16                | Clamp 10-16                |
| 16   | 1   | VFP01224 | mtr. Slang D.8x14 (L=0,70 mt.) | mt. Hose (L=0.70 mt.)      |
| 17   | 3   | VFP01497 | Dop                            | Cap                        |
| 18   | 1   | DM10635  | Slangklem                      | Hose clamp                 |

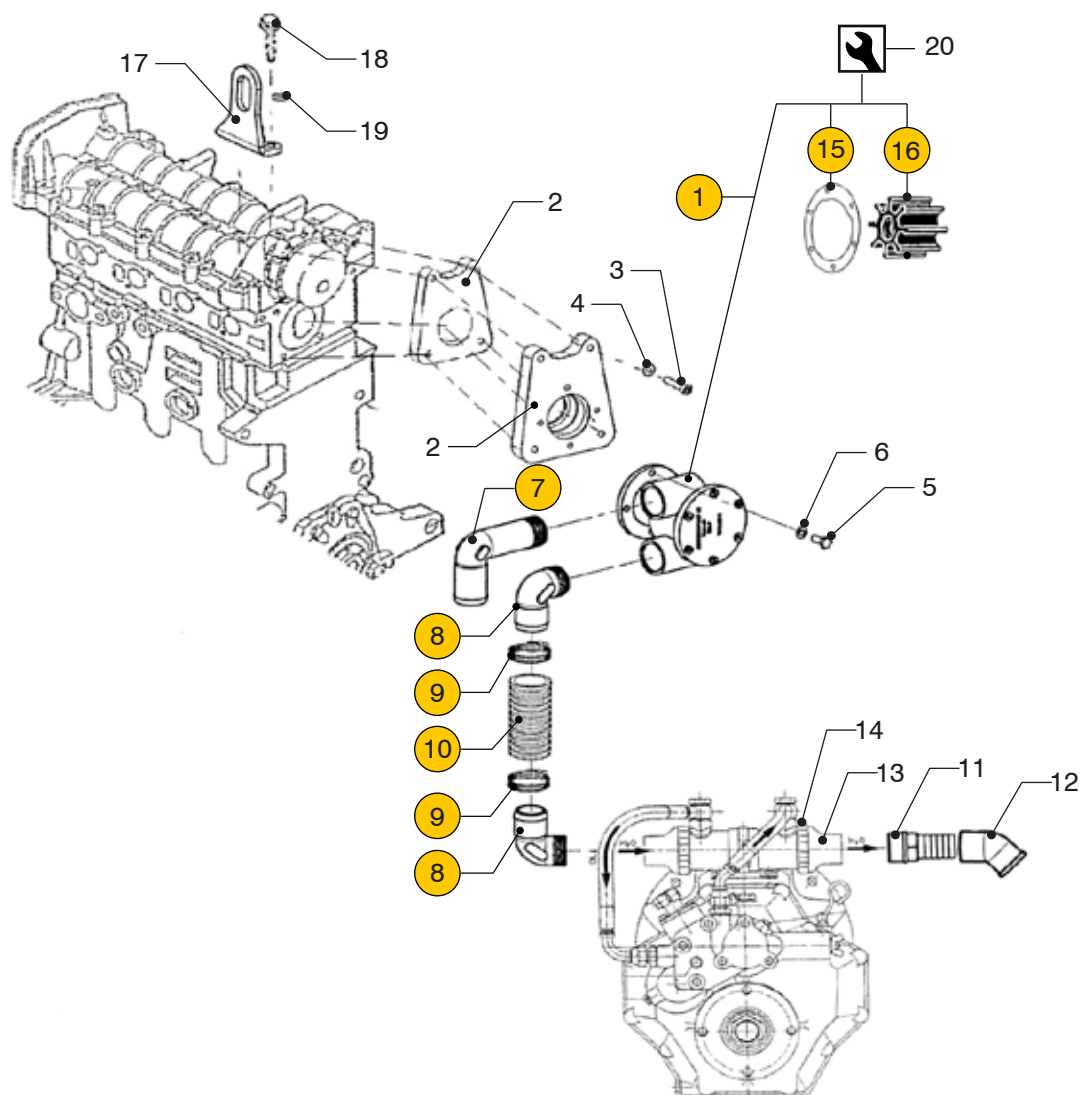


**VF4.145 VF4.200**  
**VF4.180**

**Thermostaat**

**Thermostat**

| pos. | qty | part    | benaming       | description   |
|------|-----|---------|----------------|---------------|
| 19   | 3   | DM10636 | Slangklem RSG1 | Clamp RSG1    |
| 20   | 1   | DM10637 | Ring           | Washer        |
| 21   | 1   | DM10638 | Bout           | Bolt          |
| 22   | 1   | DM10639 | Bout           | Bolt          |
| 23   | 1   | DM10707 | Ring           | Copper washer |
| 24   | 1   | DM10708 | Pijp           | Rigid pipe    |

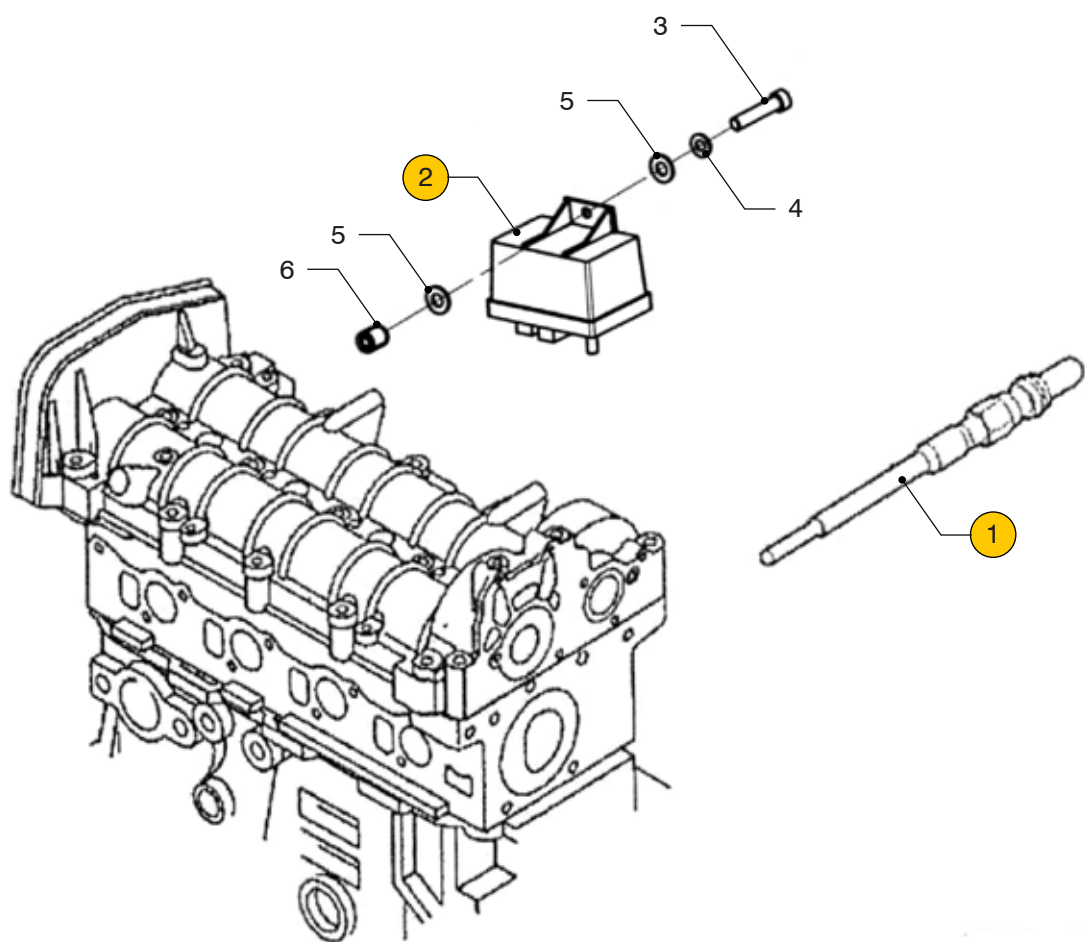


**VF4.145 VF4.200  
VF4.180**

**Buitenwaterpomp**

**Raw water pump**

| pos. | qty | part     | benaming                    | description                 |
|------|-----|----------|-----------------------------|-----------------------------|
| 1    | 1   | VFP01455 | Zeewaterpomp                | Sea water pump assy         |
| 2    | 1   | DM10641  | Steun                       | Support                     |
| 3    | 4   | DM10642  | Bout M6x35                  | Bolt M6x35                  |
| 4    | 4   | R062R    | Ring M6                     | Washer M6                   |
| 5    | 4   | DM10644  | Bout M6x16                  | Bolt M6x16                  |
| 6    | 4   | R062R    | Ring M6                     | Washer M6                   |
| 7    | 1   | VP000072 | Verbinding                  | Connection                  |
| 8    | 2   | VP000400 | Verbinding                  | Connection                  |
| 9    | 2   | HCS25    | Slangklem 21-44             | Clamp 21-44                 |
| 10   | 1   | VFP01256 | Waterslang D.32 L= 0,16 mt. | Water hose D.32 L= 0.16 mt. |
| 11   | 1   | DM10650  | Verbinding                  | Connection                  |
| 12   | 1   | DM10651  | Verbinding                  | Connection                  |
| 13   | 2   | DM10652  | Gevormde slang              | Sleeve                      |
| 14   | 2   | HCS25    | Slangklem 21-44             | Clamp 21-44                 |
| 15   | 1   | VP000351 | Pakking                     | Gasket                      |
| 16   | 1   | VP000351 | Impeller                    | Impeller                    |
| 17   | 1   | DM10656  | Hijsoog                     | Lifting eye bracket         |
| 18   | 1   | DM10657  | Bout                        | Bolt                        |
| 19   | 1   | DM10658  | Ring                        | Washer                      |

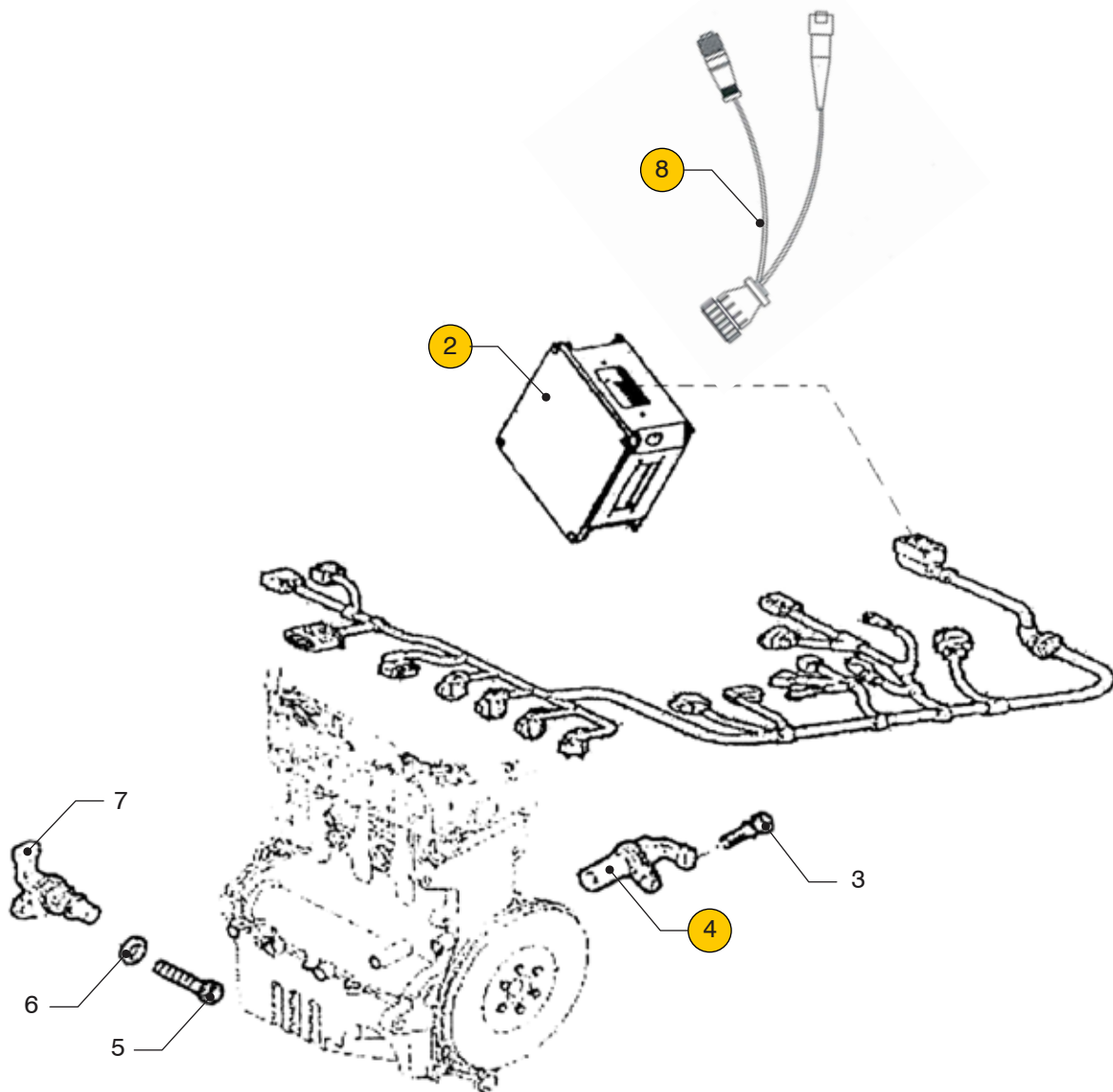


VF4.145 VF4.200  
VF4.180

## Gloeibougies

## Glow plugs

| pos. | qty | part     | benaming          | description    |
|------|-----|----------|-------------------|----------------|
| 1    | 4   | VP000357 | Gloeibougie       | Glow plug      |
| 2    | 1   | VFP01563 | Ecu Gloei bougies | Ecu glow plugs |
| 3    | 1   | DM10662  | Bout M6x35        | Bolt M6x35     |
| 4    | 1   | DM10663  | Ring M6           | Washer M6      |
| 5    | 2   | DM10664  | Ring M6           | Washer M6      |
| 6    | 1   | DM10665  | Bus               | Bush           |

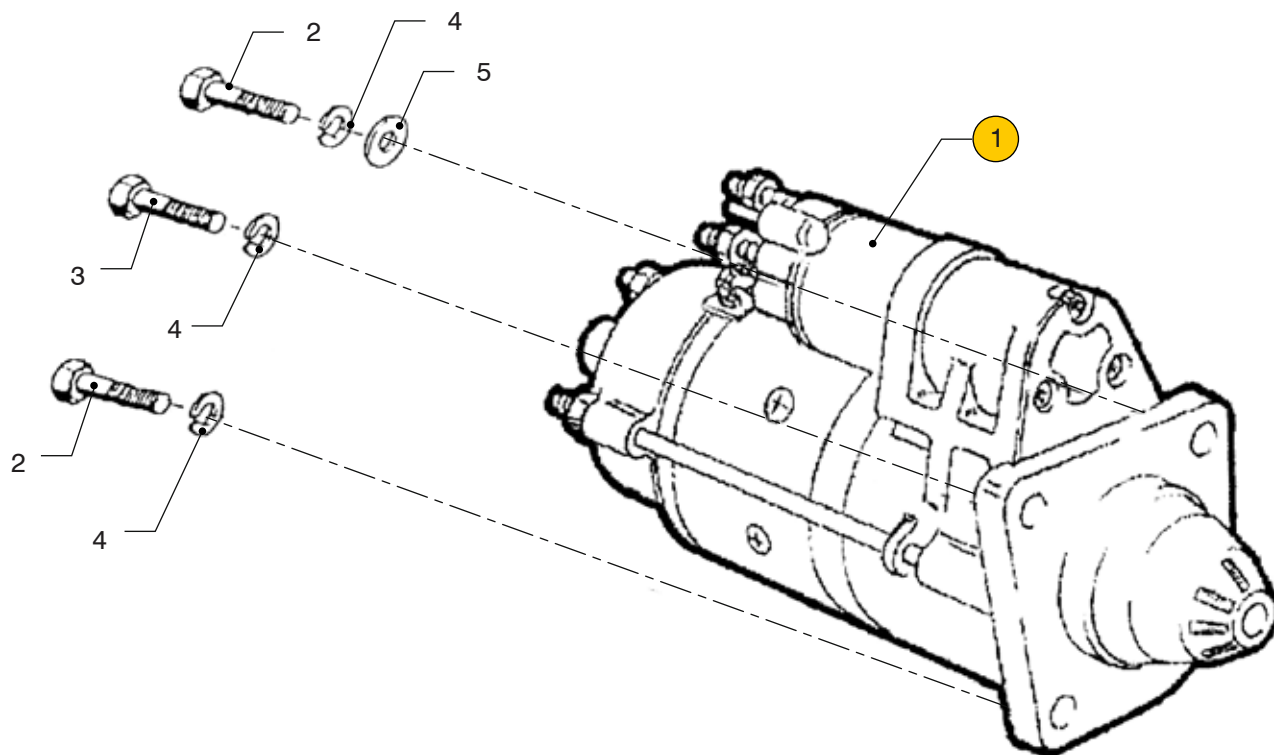


VF4.145 VF4.200  
VF4.180

#### Motorbedrading

#### Engine wiring loom

| pos. | qty | part     | benaming                  | description                |
|------|-----|----------|---------------------------|----------------------------|
| 1    | 1   | VP000383 | Motor bedrading VF4.145   | Engine wiring loom VF4.145 |
| 2    | 1   | VFP01900 | ECU voor VF4/5 motoren    | ECU for VF4/5 engines      |
| 3    | 1   | DM10667  | Bout M6X16                | Bolt M6X16                 |
| 4    | 1   | VP000358 | RPM sensor                | RPM sensor                 |
| 5    | 1   | DM10669  | Bout                      | Bolt                       |
| 6    | 1   | R062R    | Ring M6                   | Ring M6                    |
| 7    | 1   | DM10671  | Sensor                    | Sensor                     |
| 8    | 1   | VP000362 | Adapter kabel naar paneel | Adapter cable to panel     |

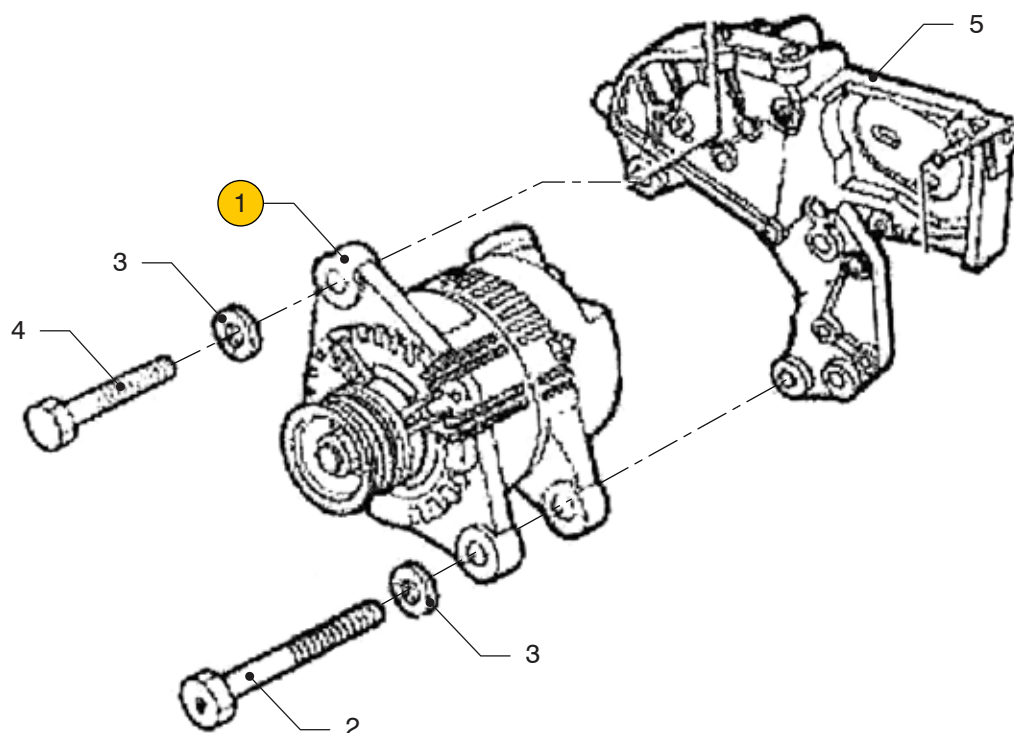


VF4.145 VF4.200  
VF4.180

Startmotor

Electric starter

| pos. | qty | part     | benaming                              | description                         |
|------|-----|----------|---------------------------------------|-------------------------------------|
| 1    | 1   | VFP01543 | Startmotor                            | Starter                             |
| 2    | 2   | VFP01171 | Bout M8x40                            | Bolt M8x40                          |
| 3    | 1   | VFP01546 | Bout M8x60 (versie met stern drive)   | Bolt M8x60 (vers. with stern drive) |
| 3    | 1   | VFP01545 | Bout M8x70 (versie met keerkoppeling) | Bolt M8x70 (vers. with gear box)    |
| 4    | 3   | VFP01057 | Ring M8                               | Washer M8                           |
| 5    | 3   | VFP01133 | Ring M8                               | Washer M8                           |

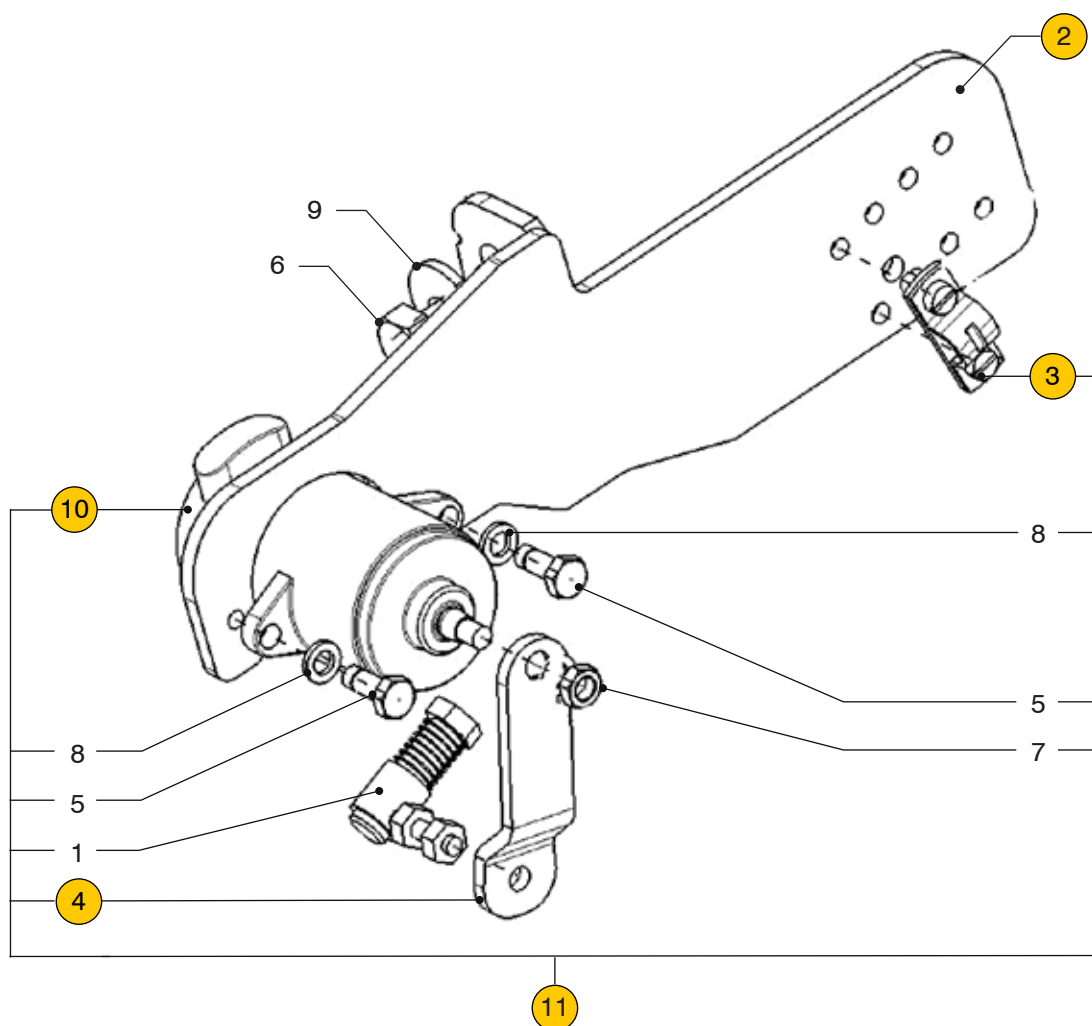


**VF4.145 VF4.200**  
**VF4.180**

# **Dynamo**

# **Alternator**

| pos. | qty | part     | benaming        | description              |
|------|-----|----------|-----------------|--------------------------|
| ①    | 1   | VP000339 | Dynamo          | Alternator               |
| 2    | 1   | DM10673  | Bout M12x90     | Bolt M12x1.5x140         |
| 3    | 2   | DM10674  | Ring M12        | Washer M12               |
| 4    | 1   | DM10675  | Bout M10x1,5x90 | Bolt M10x1.5x90          |
| 5    | 1   | DM10676  | Dynamosteun     | Alternator support assy. |

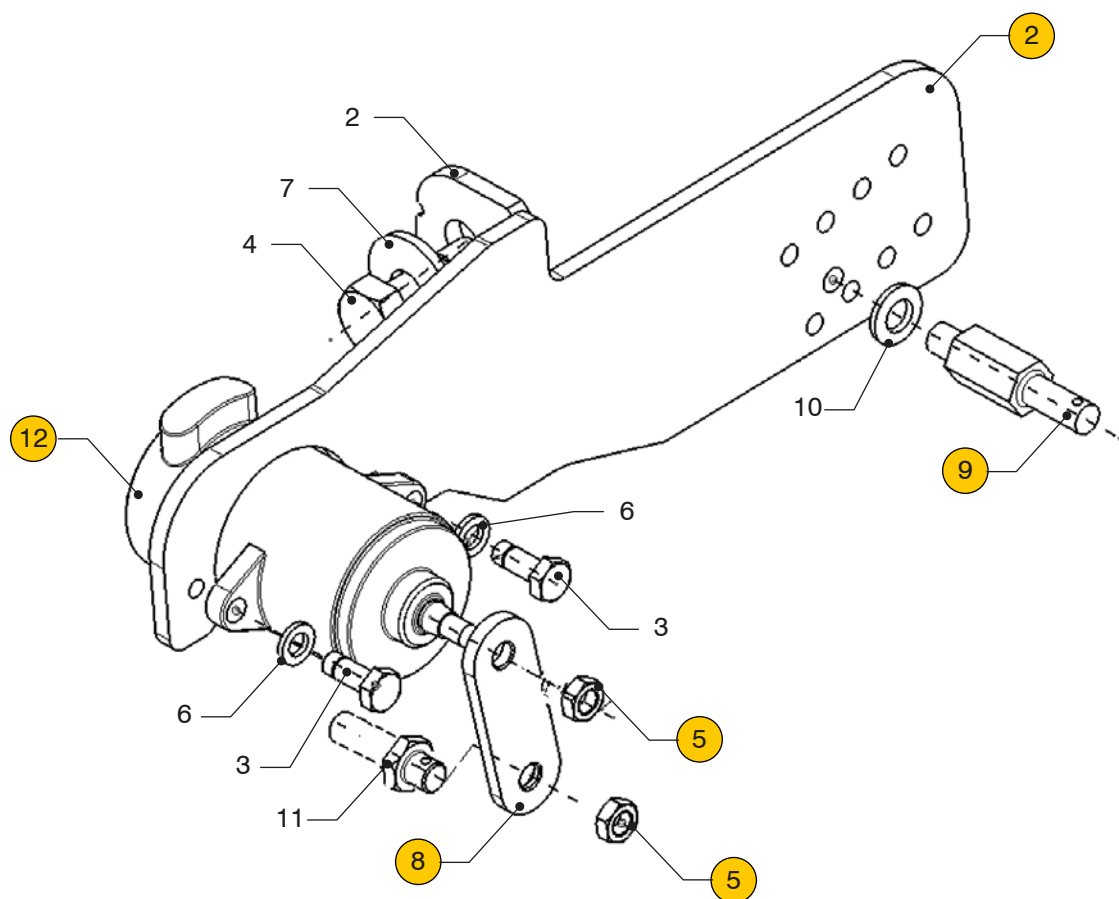


**VF4.145 VF4.200**  
**VF4.180**

### Potentiometer keerkoppeling

### Potentiometer gear box

| pos. | qty | part     | benaming                             | description                    |
|------|-----|----------|--------------------------------------|--------------------------------|
| 1    | 1   | DM10680  | Kabel verbindingsstuk                | Cable connection               |
| 2    | 1   | VP000401 | Steun                                | Support                        |
| 3    | 1   | VP000031 | Kabelklem                            | Cable clamp                    |
| 4    | 1   | VP000032 | Steun                                | Support                        |
| 5    | 2   | DM10694  | Bout M6X16                           | Bolt M6X16                     |
| 6    | 1   | DM10695  | Bout M12X30                          | Bolt M12X30                    |
| 7    | 1   | VFP01285 | Moer M6                              | Nut M6                         |
| 8    | 2   | DM10697  | Ring M6                              | Washer M6                      |
| 9    | 1   | DM10698  | Ring M12                             | Washer M12                     |
| 10   | 1   | VP000038 | Potentiometer los / linksom draaiend | Potentiometer only / clockwise |
| 11   | 1   | 18-15559 | Potentiometer SET / linksom draaiend | Potentiometer KIT / clockwise  |

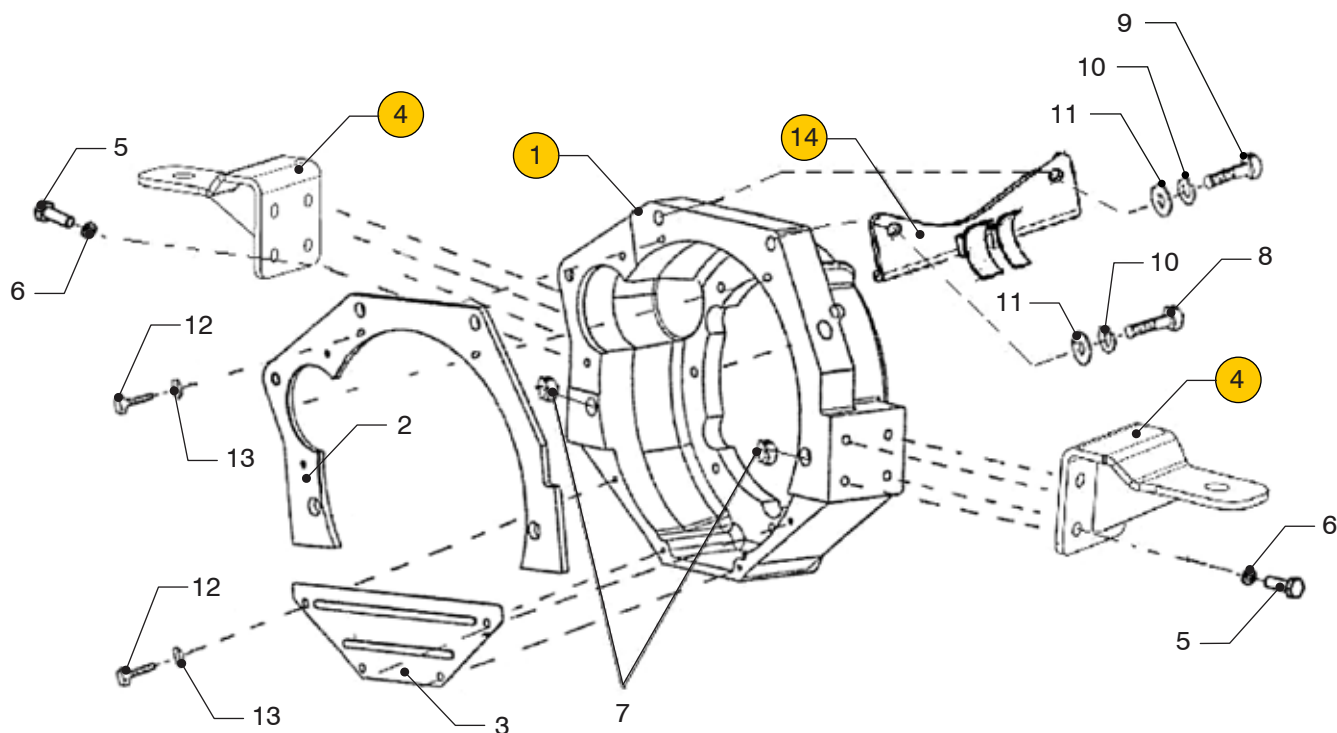


**VF4.145 VF4.200**  
**VF4.180**

**Potentiometer Drive versie**

**Potentiometer Drive version**

| pos. | qty | part     | benaming         | description     |
|------|-----|----------|------------------|-----------------|
| 2    | 1   | VP000401 | Steun            | Support         |
| 3    | 2   | DM10694  | Bout M6x16       | Bolt M6x16      |
| 4    | 1   | DM10695  | Bout M12X30      | Bolt M12X30     |
| 5    | 2   | VFP01285 | Moer M6          | Nut M6          |
| 6    | 2   | DM10697  | Ring M6          | Washer M6       |
| 7    | 1   | DM10698  | Ring M12         | Washer M12      |
| 8    | 1   | VP000039 | Plaat            | Plate           |
| 9    | 1   | VP000040 | Speciale bout M8 | Special bolt M8 |
| 10   | 1   | DM10710  | Ring M8          | Washer M8       |
| 11   | 1   | DM10711  | Pen              | Pin M6          |
| 12   | 1   | VP000038 | Potentiometer    | Potentiometer   |

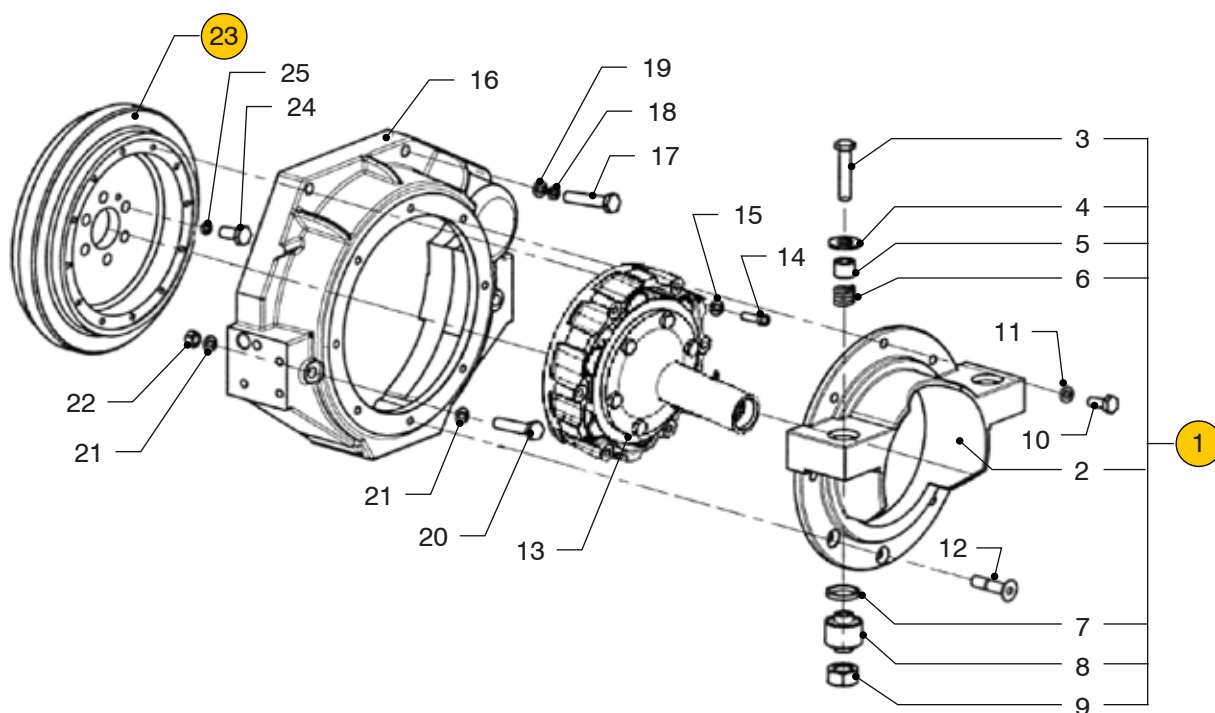


**VF4.145 VF4.200**  
**VF4.180**

**Vliegwielhuis voor keerkoppeling**

**Flywheel housing for gearbox**

| pos. | qty | part     | benaming          | description       |
|------|-----|----------|-------------------|-------------------|
| ①    | 1   | VFP01568 | Vliegwielhuis     | Flywheel housing  |
| 2    | 1   | VFP01569 | Plaat             | Plate             |
| 3    | 1   | VFP01570 | Plaat             | Plate             |
| ④    | 2   | VFP01571 | Motorsteun        | Engine support    |
| 5    | 8   | VFP01572 | Bout M10x1.5x30   | Bolt M10x1.5x30   |
| 6    | 8   | VFP01012 | Ring M10          | Washer M10        |
| 7    | 2   | DM80023  | Moer M12          | Nut M12           |
| 8    | 2   | VFP01575 | Bout M12x1.75x150 | Bolt M12x1.75x150 |
| 9    | 2   | VFP01576 | Bout M12x1,25x80  | Bolt M12x1.25x80  |
| 10   | 4   | VFP01258 | Ring M12          | Washer M12        |
| 11   | 4   | VFP01006 | Ring M12          | Washer M12        |
| 12   | 6   | VFP01051 | Bout M6x16        | Bolt M6x16        |
| 13   | 6   | R062R    | Ring M6           | Washer M6         |
| ⑭    | 1   | VFP01249 | Steun             | Support           |

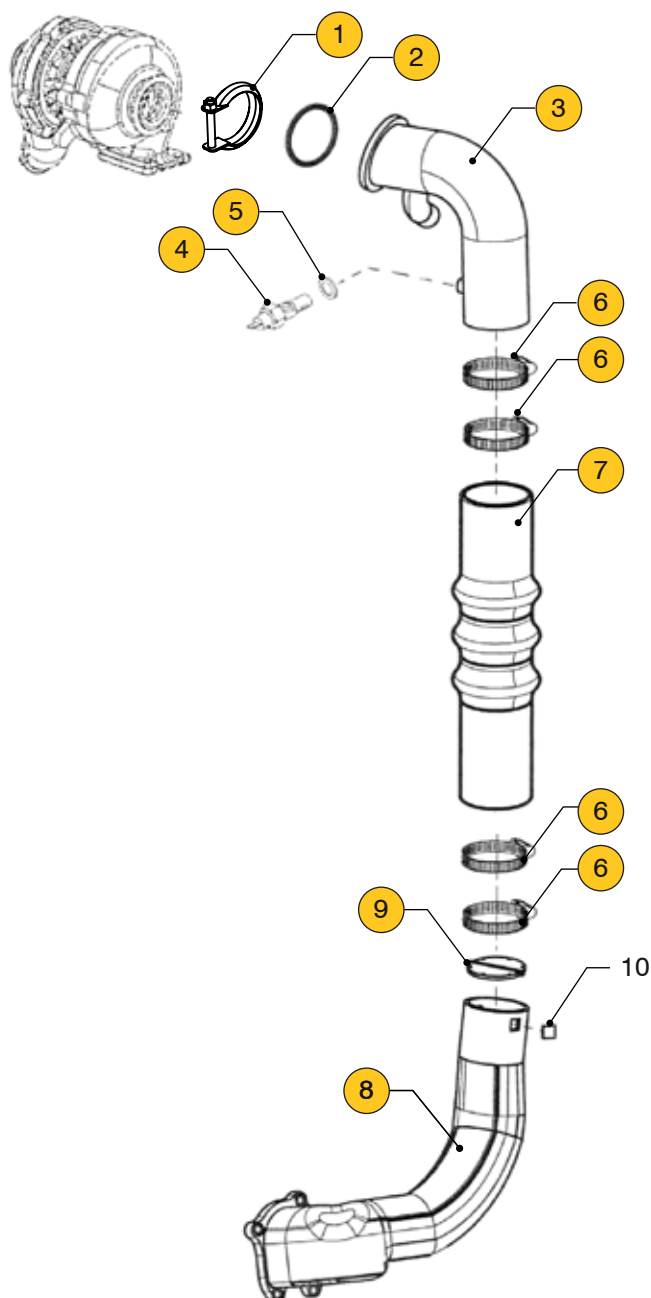


**VF4.145 VF4.200**  
**VF4.180**

**Set hekaandrijving 'Bravo', aandrijfdeel**

**Stern drive kit 'Bravo', drive part**

| pos. | qty | part     | benaming                  | description                        |
|------|-----|----------|---------------------------|------------------------------------|
| 1    | 1   | VFP01592 | Lantaarnstuk compleet     | Bell assembly stern drive complete |
| 2    | 1   | VFP01593 | Lantaarnstuk beugel Volvo | Bell stern drive                   |
| 3    | 2   | VFP01594 | Bout ½"x136               | Bolt ½"x136                        |
| 4    | 2   | VFP01595 | Ring                      | Washer                             |
| 5    | 2   | VFP01596 | Bus 13,3x22x16            | Bush 13.3x22x16                    |
| 6    | 2   | VFP01597 | Veer                      | Spring                             |
| 7    | 2   | VFP01598 | Afstandsbus               | Mount spacer                       |
| 8    | 2   | VFP01599 | Staatstuk montageset      | Housing mount kit                  |
| 9    | 2   | VFP01600 | Borgmoer ½"               | Lock nut ½"                        |
| 10   | 6   | VFP01601 | Bout M10x1,5x25           | Bolt M10x1.5x25                    |
| 11   | 6   | VFP01004 | Ring M10                  | Washer M10                         |
| 12   | 2   | VFP01603 | Bout M10x1,5x25           | Bolt M10x1.5x25                    |
| 13   | 1   | VFP01604 | Flexibele koppeling       | Flexible coupling                  |
| 14   | 12  | VFP01071 | Bout M8x1,25x25           | Bolt M8x1.25x25                    |
| 15   | 12  | VFP01057 | Ring M8                   | Washer M8                          |
| 16   | 1   | VFP01607 | Vliegwielhuis             | Flywheel housing                   |
| 17   | 2   | VFP01257 | Bout M12x1,25x60          | Bolt M12x1.25x60                   |
| 18   | 2   | VFP01258 | Ring M12                  | Washer M12                         |
| 19   | 2   | VFP01006 | Ring M12                  | Washer M12                         |
| 20   | 2   | VFP01005 | Bout M12x1,25x140         | Bolt M12x1.25x140                  |
| 21   | 4   | VFP01006 | Ring M12                  | Washer M12                         |
| 22   | 2   | VFP01613 | Moer M12                  | Nut M12                            |
| 23   | 1   | VFP01614 | Vliegwiel compleet        | Flywheel assembly                  |
| 24   | 6   | VFP01615 | Bout M12x1,25x29          | Bolt M12x1.25x29                   |
| 25   | 6   | VFP01616 | Ring M12                  | Washer M12                         |

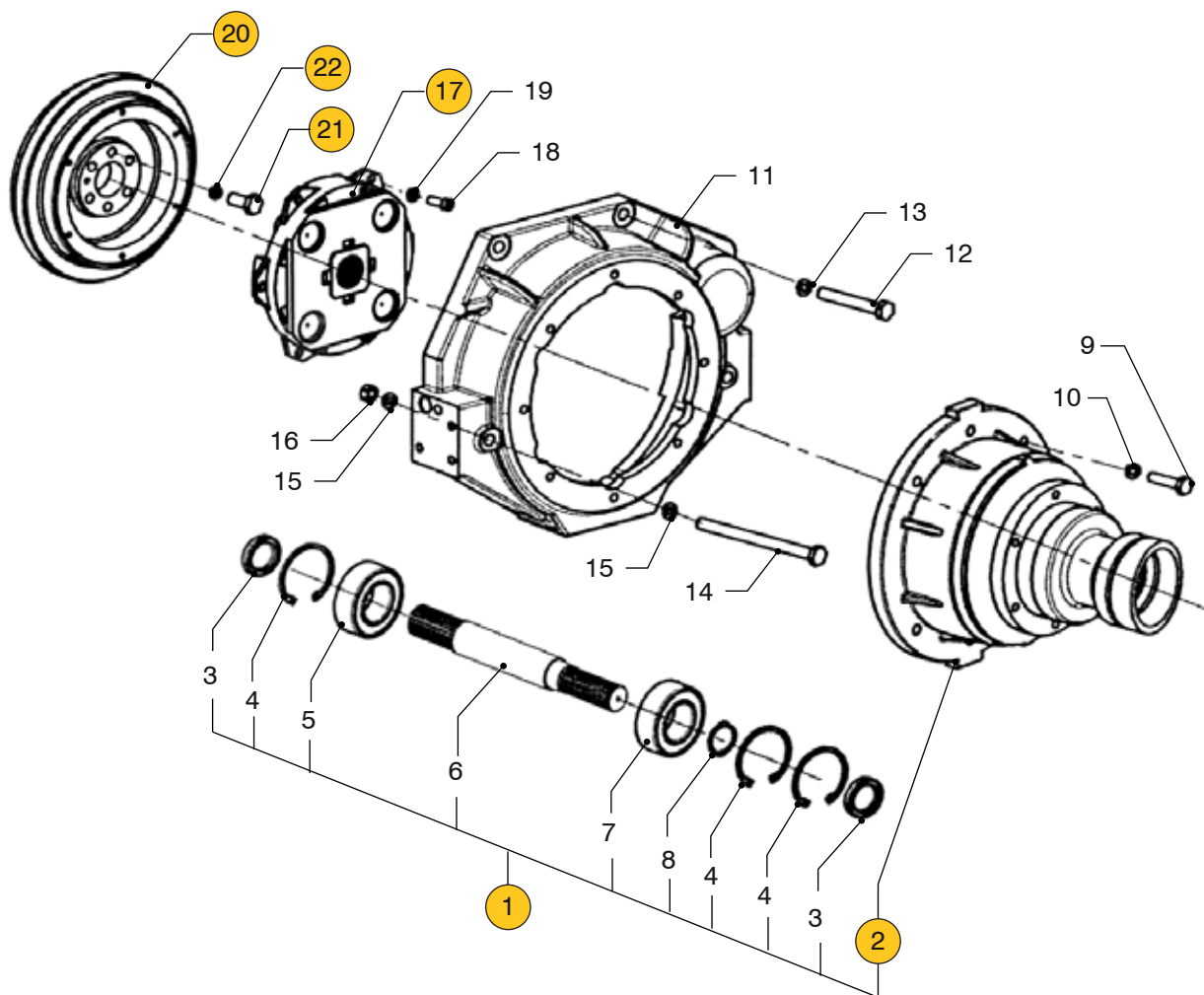


**VF4.145 VF4.200  
VF4.180**

**Set hekaandrijving 'Bravo', uitlaatdeel**

**Stern drive kit 'Bravo', exhaust part**

| pos. | qty | part     | benaming                 | description                 |
|------|-----|----------|--------------------------|-----------------------------|
| 1    | 1   | VFP01389 | C klem                   | C-clamp                     |
| 2    | 1   | VFP01388 | Pakking                  | Gasket                      |
| 3    | 1   | VP000363 | Uitlaatinjectiebocht VF4 | Exhaust injection elbow VF4 |
| 4    | 1   | STM2006  | Temp.schak. 75° M18x1,5  | Thermo switch 75° M18x1,5   |
| 5    | 1   | STM2019  | Koperen dichtring M18    | Copper washer M18           |
| 6    | 4   | VFP01622 | Slangklem 80-100         | Clamp 80-100                |
| 7    | 1   | VFP01623 | Gevormde slang           | Sleeve                      |
| 8    | 1   | VFP01624 | Uitlaatpijp              | Exhaust pipe                |
| 9    | 1   | VFP01625 | Terugslagklep            | Valve                       |
| 10   | 2   | VFP01626 | Rubber tip               | Rubber tip                  |

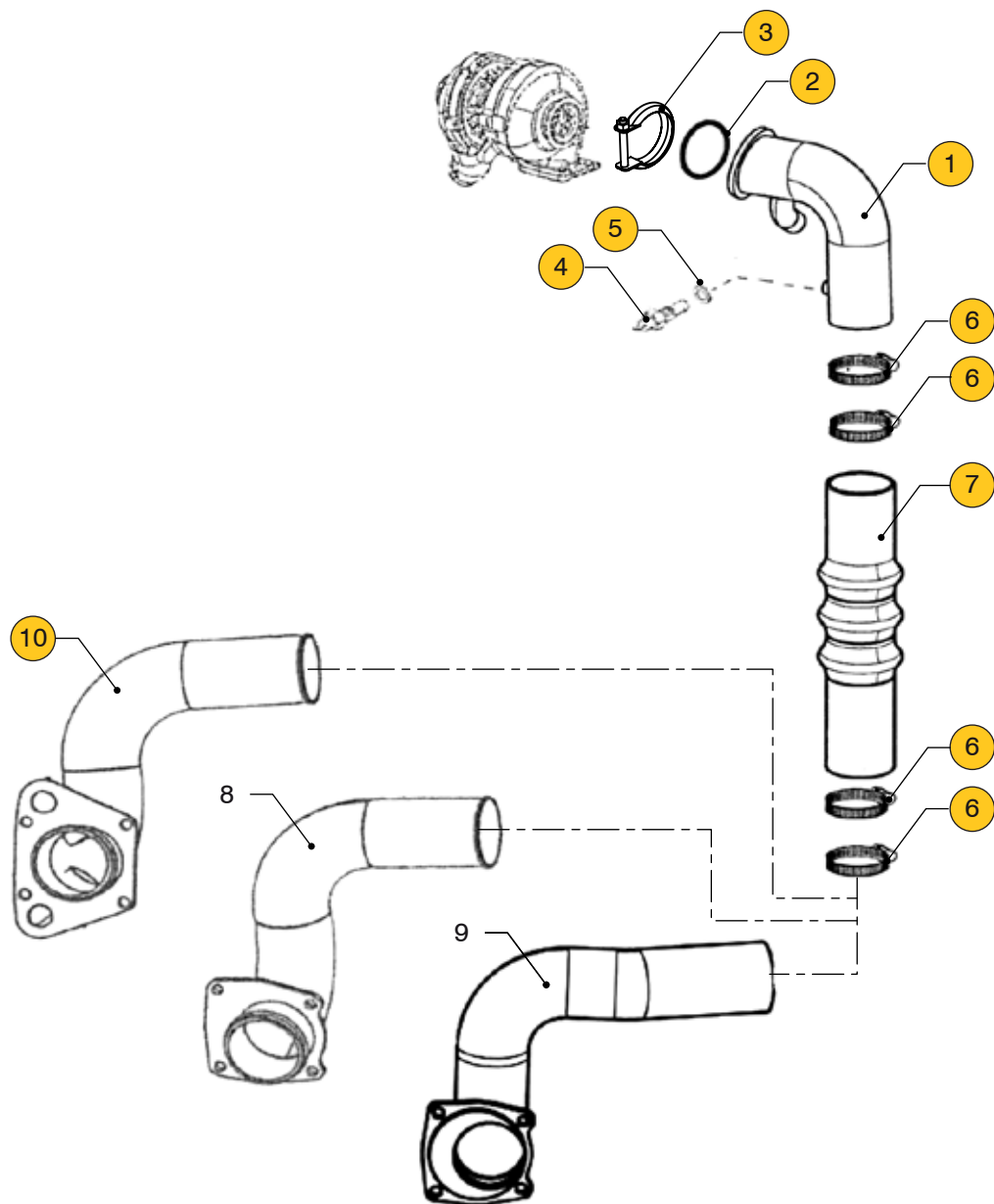


**VF4.145 VF4.200**  
**VF4.180**

**Set hekaandrijving 'Volvo 290 A-B'; aandrijfdeel**

**Stern drive kit 'Volvo 290 A-B'; drive part**

| pos. | qty | part     | benaming                    | description                     |
|------|-----|----------|-----------------------------|---------------------------------|
| 1    | 1   | VFP01627 | Lantaarnstuk compleet Volvo | Bell assembly stern drive Volvo |
| 2    | 1   | VFP01841 | Lantaarnstuk beugel Volvo   | Bell stern drive volvo          |
| 3    | 2   | VFP01629 | Keerring 35x62x7            | Seal 35x62x7                    |
| 4    | 3   | VFP01630 | Ring                        | Ring                            |
| 5    | 1   | VFP01631 | Lager 62x35x14              | Bearing 62x35x14                |
| 6    | 1   | VFP01632 | As                          | Shaft                           |
| 7    | 1   | VFP01633 | Lager 62x30x16              | Bearing 62x30x16                |
| 8    | 1   | VFP01634 | Ring                        | Ring                            |
| 9    | 8   | VFP01635 | Bout M10x1,5x40             | Bolt M10x1.5x40                 |
| 10   | 8   | VFP01012 | Ring M10                    | Washer M10                      |
| 11   | 1   | VFP01637 | Vliegwielhuis               | Flywheel housing                |
| 12   | 2   | VFP01576 | Bout M12x1,25x80            | Bolt M12x1.25x80                |
| 13   | 2   | VFP01258 | Ring M12                    | Washer M12                      |
| 14   | 2   | VFP01575 | Bout M12x1,75x150           | Bolt M12x1.75x150               |
| 15   | 6   | VFP01616 | Ring M12                    | Washer M12                      |
| 16   | 2   | VFP01642 | Moer M12x1,75               | Nut M12x1.75                    |
| 17   | 1   | VFP01643 | Koppeling                   | Coupling                        |
| 18   | 6   | VFP01071 | Bout M8x25                  | Bolt M8x25                      |
| 19   | 6   | VFP01057 | Ring M8                     | Washer M8                       |
| 20   | 1   | VFP01646 | Vliegwiel compleet          | Flywheel assembly               |
| 21   | 6   | VFP01069 | Bout M12x1,25x44            | Bolt M12x1.25x44                |
| 22   | 6   | VP000402 | Ring M12                    | Washer M12                      |

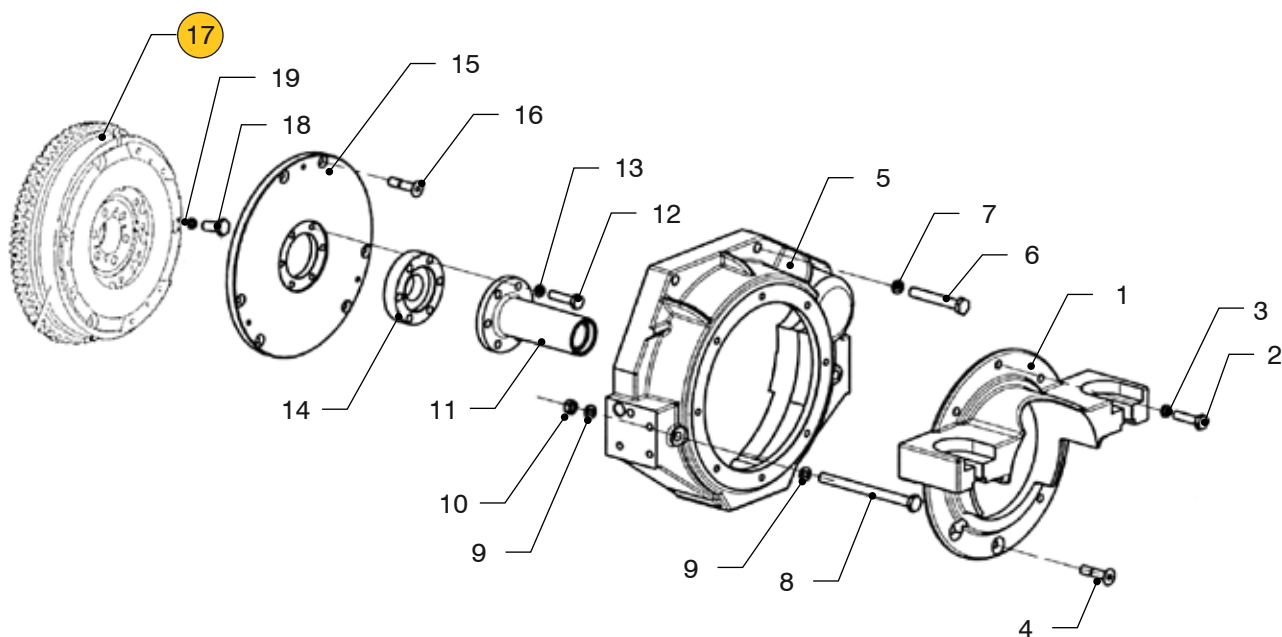


**VF4.145 VF4.200**  
**VF4.180**

**Set hekaandrijving 'Volvo 290 A-B', uitlaatdeel**

**Stern drive kit 'Volvo 290 A-B', exhaust part**

| pos. | qty | part     | benaming                                 | description                              |
|------|-----|----------|------------------------------------------|------------------------------------------|
| 1    | 1   | VP000363 | Uitlaatbocht VF4                         | Exhaust elbow VF4                        |
| 2    | 1   | VFP01388 | Pakking                                  | Gasket                                   |
| 3    | 1   | VFP01389 | C klem                                   | C-clamp                                  |
| 4    | 1   | STM2006  | Temp.schak. 75° M18x1,5                  | Thermo switch 75° M18x1.5                |
| 5    | 1   | STM2019  | Koperen dichtring M18                    | Sealing M18                              |
| 6    | 4   | VFP01622 | Slangklem 80-100                         | Clamp 80-100                             |
| 7    | 1   | VFP01623 | Gevormde slang                           | Sleeve                                   |
| 8    | 1   | VFP01656 | Uitlaatpijp voor stern drive Volvo 290 A | Exhaust pipe for stern drive Volvo 290 A |
| 9    | 1   | VFP01657 | Uitlaatpijp voor stern drive Volvo 290 B | Exhaust pipe for stern drive Volvo 290 B |
| 10   | 1   | STM9883  | Uitlaatpijp voor stern drive Volvo 290 C | Exhaust pipe for stern drive Volvo 290 C |

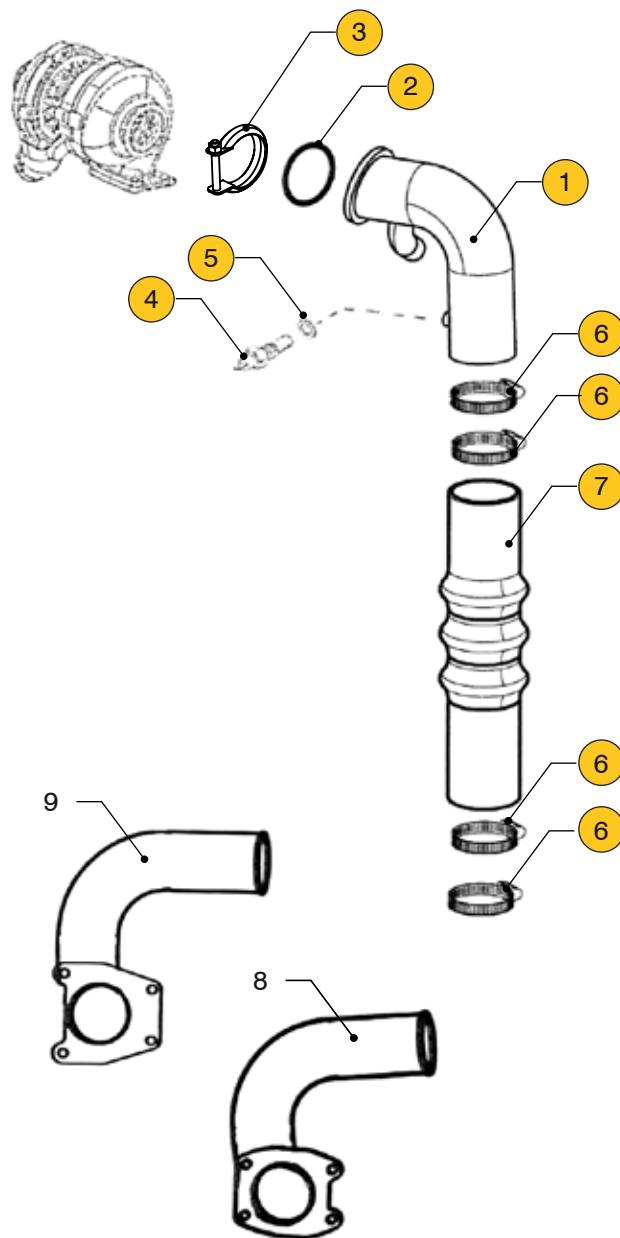


**VF4.145 VF4.200  
VF4.180**

**Set hekaandrijving 'Volvo SX A-M', aandrijfdeel**

**Stern drive kit 'Volvo SX A-M', drive part**

| pos. | qty | part     | benaming             | description            |
|------|-----|----------|----------------------|------------------------|
| 1    | 1   | VFP01658 | Lantaarnstuk Volvo   | Bell stern drive Volvo |
| 2    | 6   | VFP01601 | Bout M10x1,5x25      | Bolt M10x1.5x25        |
| 3    | 6   | VFP01004 | Ring M10             | Washer M10             |
| 4    | 2   | DM80024  | Bout M10x1,5x25      | Bolt M10x1.5x25        |
| 5    | 1   | DM80025  | Vliegwiel huis       | Flywheel housing       |
| 6    | 2   | VFP01257 | Bout M12x1,25x60     | Bolt M12x1.25x60       |
| 7    | 2   | VFP01258 | Ring M12             | Washer M12             |
| 8    | 2   | VFP01005 | Bout M12x1,25x140    | Bolt M12x1.25x140      |
| 9    | 4   | VFP01006 | Ring M12             | Washer M12             |
| 10   | 2   | VFP01613 | Moer M12             | Nut M12                |
| 11   | 1   | VFP01668 | Naaf, compleet       | Complete hub           |
| 12   | 6   | VFP01669 | Bout M10x1.5x45      | Bolt M10x1.5x45        |
| 13   | 6   | VFP01012 | Ring M10             | Washer M10             |
| 14   | 1   | VFP01671 | Afstandsbus          | Spacer                 |
| 15   | 1   | VFP01672 | Flens voor naaf      | Flange for hub         |
| 16   | 6   | VFP01673 | Bout M8x1,25x25      | Bolt M8x1.25x25        |
| 17   | 1   | VFP01067 | Vliegwiel assemblage | Flywheel assembly      |
| 18   | 6   | VFP01069 | Bout M12x1,25x44     | Bolt M12x1.25x44       |
| 19   | 6   | VFP01616 | Ring M12             | Washer M12             |

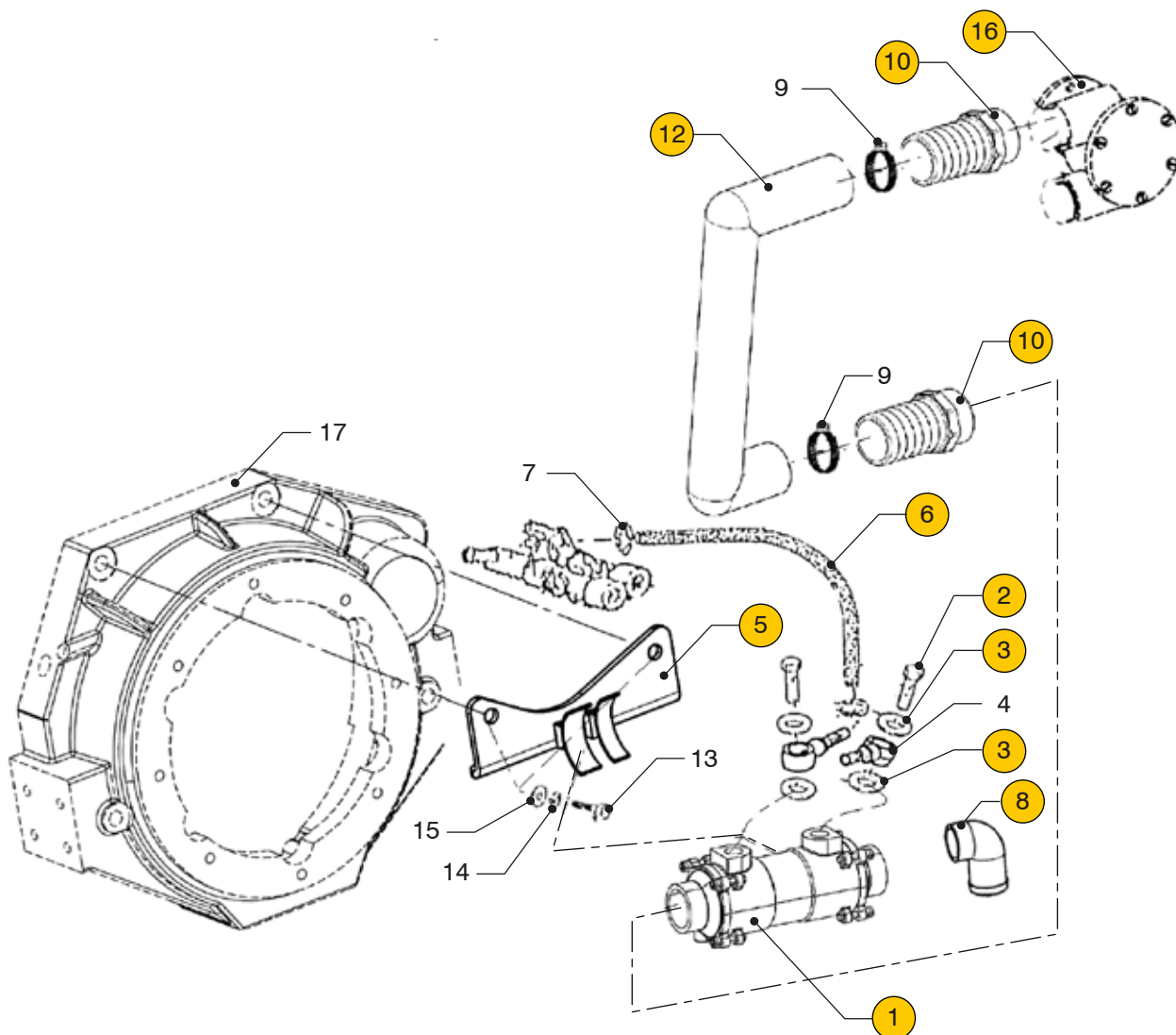


**VF4.145 VF4.200**  
**VF4.180**

**Set hekaandrijving 'Volvo SX A-M', uitlaatdeel**

**Stern drive kit 'Volvo SX A-M', exhaust part**

| pos. | qty | part     | benaming                                | description                             |
|------|-----|----------|-----------------------------------------|-----------------------------------------|
| 1    | 1   | VP000363 | Uitlaatbocht VF4                        | Exhaust elbow VF4                       |
| 2    | 1   | VFP01388 | Pakking                                 | Gasket                                  |
| 3    | 1   | VFP01389 | C klem                                  | C-clamp                                 |
| 4    | 1   | STM2006  | Temp.schak. 75° M18x1,5                 | Thermo switch 75° M18x1.5               |
| 5    | 1   | STM2019  | Koperen dichtring M18                   | Copper washer M18                       |
| 6    | 4   | VP000403 | Slangklem 80-100                        | Hose clamp 80-100                       |
| 7    | 1   | VFP01623 | Gevormde slang                          | Sleeve                                  |
| 8    | 1   | VFP01684 | Uitlaatpijp voor stern drive Volvo SX-M | Exhaust pipe for stern drive Volvo SX-M |
| 9    | 1   | DM80026  | Uitlaatpijp voor stern drive Volvo SX-A | Exhaust pipe for stern drive Volvo SX-A |

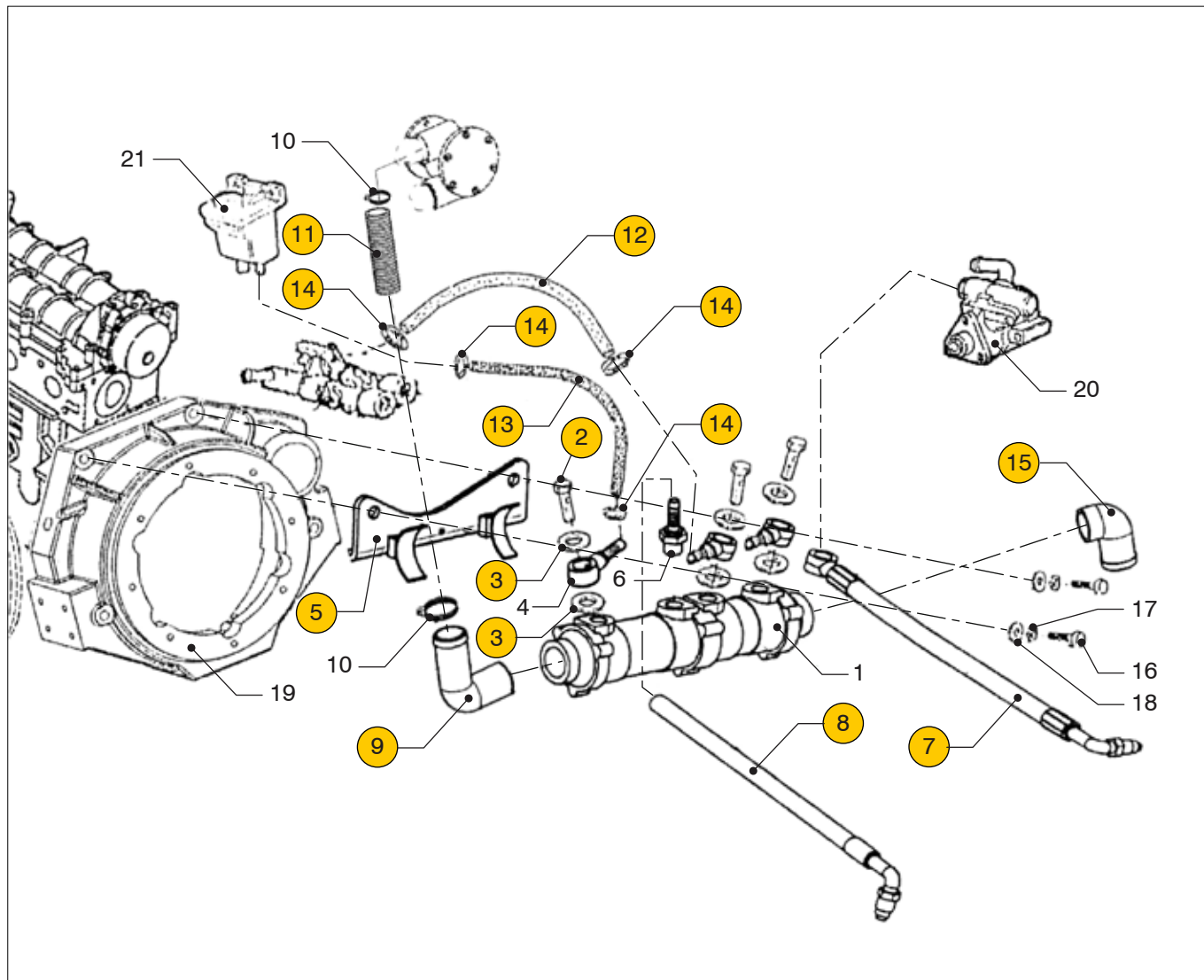


**VF4.145 VF4.200  
VF4.180**

**Brandstofwarmtewisselaar,  
motor ZONDER hydraulische pomp**

**Fuel heat exchanger,  
engine WITHOUT hydraulic pump**

| pos. | qty | part     | benaming                       | description                |
|------|-----|----------|--------------------------------|----------------------------|
| ①    | 1   | VP000070 | Brandstof warmtewisselaar      | Diesel heat exchanger      |
| ②    | 2   | VFP01246 | Banjo bout                     | Banjo bolt                 |
| ③    | 4   | VFP01247 | Koperring 3/8"                 | Copper ring 3/8"           |
| 4    | 2   | VFP01248 | Banjo oog 3/8"                 | Eye connection 3/8"        |
| ⑤    | 1   | VFP01249 | Steun                          | Support                    |
| ⑥    | 1   | VFP01224 | mtr. Slang D.8x14 (L=1,00 mt.) | mt. Hose fuel (L=1.00 mt.) |
| 7    | 2   | VFP01209 | Slangklem 10-16                | Clamp 10-16                |
| ⑧    | 1   | VFP01252 | Verbinding                     | Connection                 |
| 9    | 2   | DM10703  | Slangklem                      | Clamp                      |
| ⑩    | 1   | VP000072 | Slangpilaar                    | Junction                   |
| ⑫    | 1   | VP000073 | Slang                          | Hose                       |
| 13   | 2   | DM80027  | Bout                           | Bolt                       |
| 14   | 2   | DM80028  | Borg ring                      | Washer                     |
| 15   | 2   | DM80029  | Ring                           | Washer                     |
| ⑯    | 1   | VFP01455 | Buitenwaterpomp                | Raw water pump             |
| 17   | 1   | VFP01637 | Vliegwielhuis                  | Bell housing               |

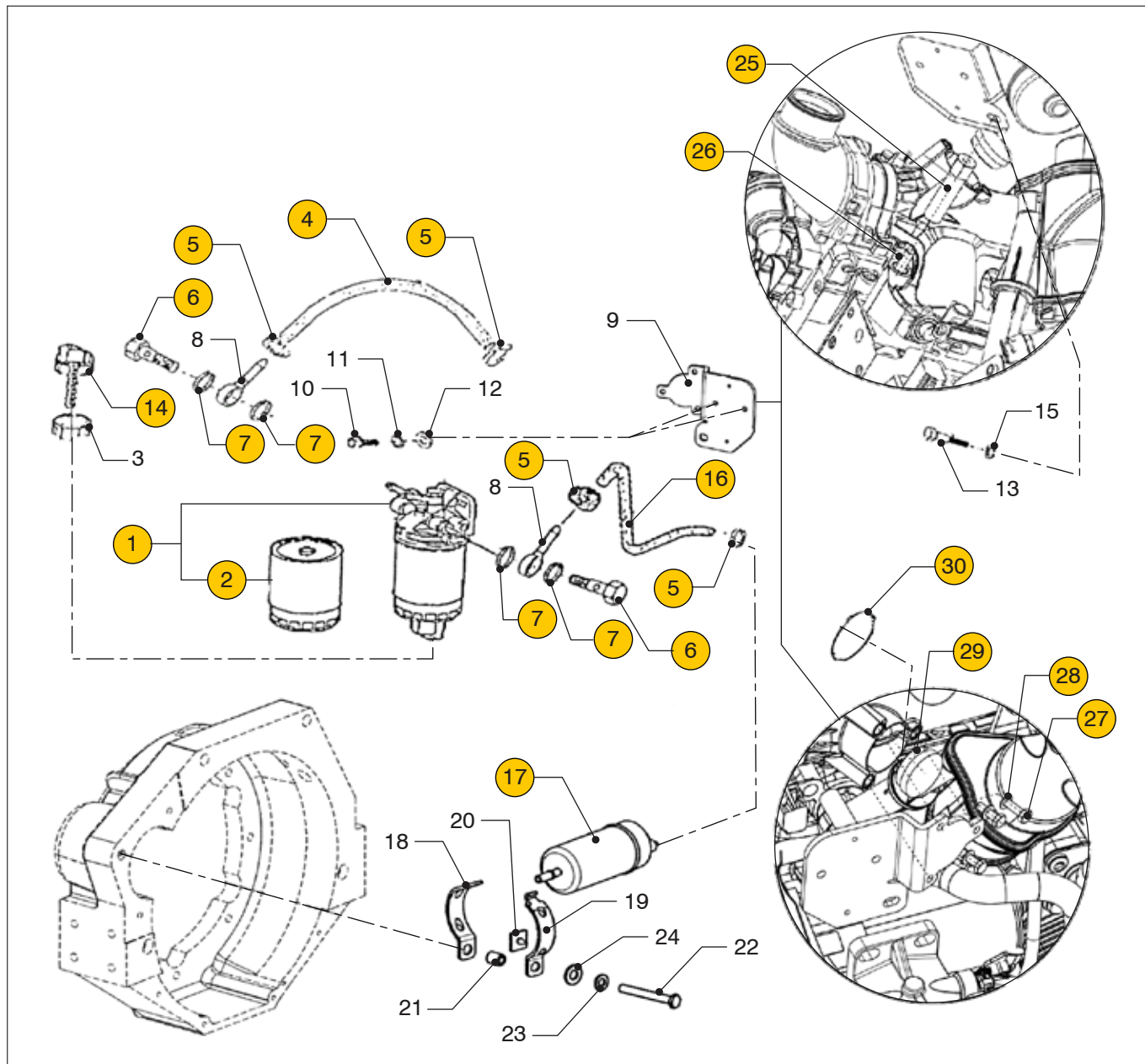


**VF4.145 VF4.200**  
**VF4.180**

**Brandstofwarmtewisselaar,  
motor MET hydraulische pomp**

**Fuel heat exchanger,  
engine WITH hydraulic pump**

| pos. | qty | part     | benaming                  | description           |
|------|-----|----------|---------------------------|-----------------------|
| 1    | 1   | DM10574  | Brandstof warmtewisselaar | Diesel heat exchanger |
| 2    | 3   | VFP01246 | Banjo bout                | Banjo bolt            |
| 3    | 6   | VFP01247 | Koperring                 | Copper ring           |
| 4    | 2   | VFP01248 | Banjo oog                 | Eye connection        |
| 5    | 1   | VFP01264 | Steun                     | Support               |
| 6    | 1   | DM80030  | Banjobout                 | Banjo bolt            |
| 7    | 1   | VFP01266 | Hydrauliekslang           | Hydraulic hose        |
| 8    | 1   | VFP01267 | Hydrauliekslang           | Hydraulic hose        |
| 9    | 2   | VFP01252 | Verbinding                | Connection            |
| 10   | 2   | VFP01253 | Slangklem 21-44           | Clamp 21-44           |
| 11   | 1   | VFP01256 | Waterslang (0,50 mt.)     | Water hose (0.50 mt.) |
| 12   | 1   | VFP01224 | Brandstofslang (1,00 mt.) | Fuel hose (1.00 mt.)  |
| 13   | 1   | DM10040  | Brandstofslang (0,60 mt.) | Fuel hose(0.60 mt.)   |
| 14   | 4   | HCS08    | Slangklem 10-16           | Clamp 10-16           |
| 15   | 1   | VP000404 | Bocht                     | Junction              |
| 16   | 2   | VFP01257 | Bout M12x1,25x60          | Bolt M12x1.25x60      |
| 17   | 2   | VFP01258 | Borg ring M12             | Washer M12            |
| 18   | 2   | VFP01006 | Ring M12                  | Washer M12            |
| 19   | 1   | VFP01637 | Vlieg wiel huis           | Bell housing          |
| 20   | 1   | DM10450  | Oliepomp                  | Oil pump              |
| 21   | 1   | DM10454  | Tank                      | Tank                  |

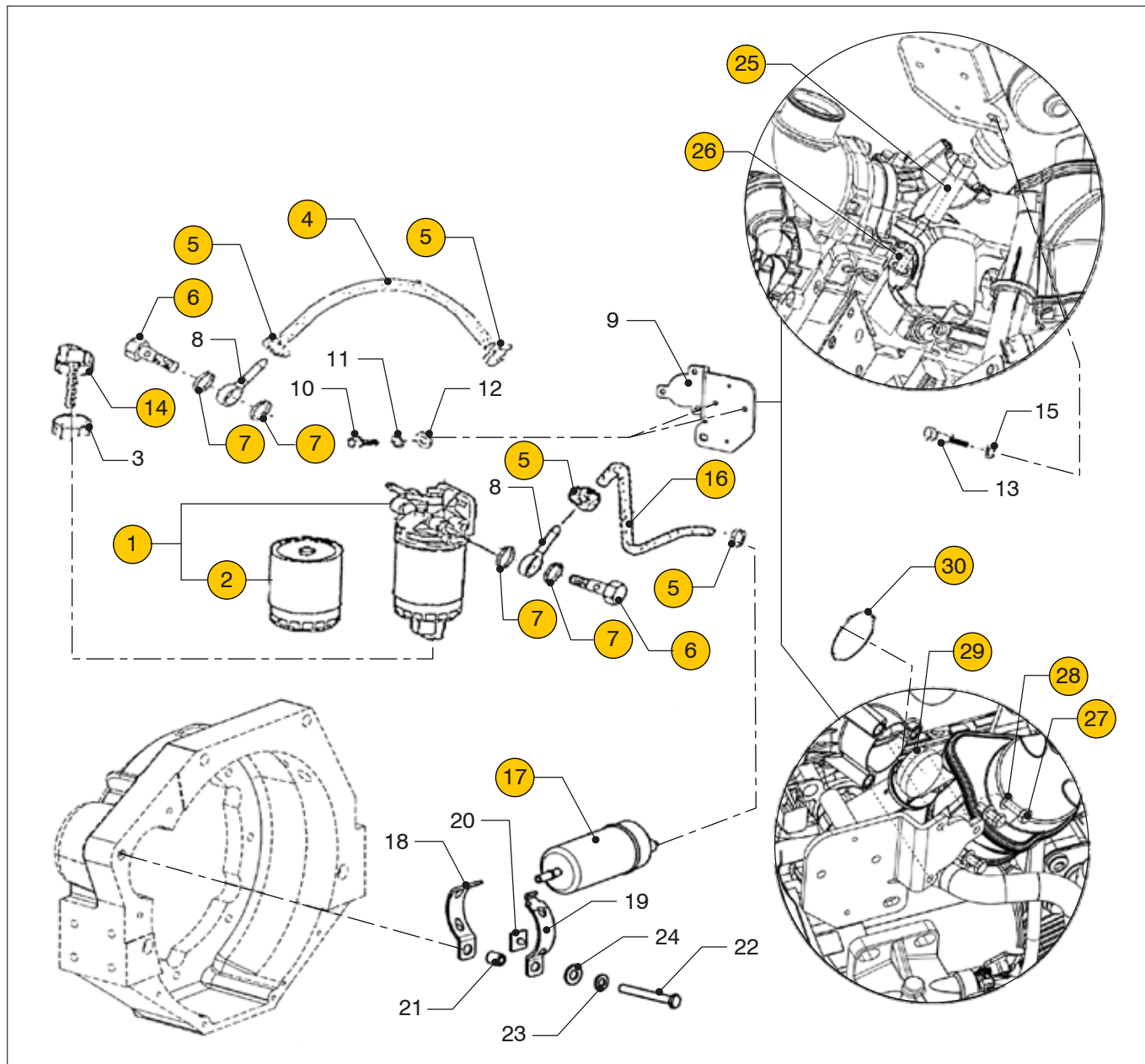


**VF4.145 VF4.200**  
**VF4.180**

**Brandstoffilter**

**Fuel filter**

| pos. | qty | part     | benaming                       | description                |
|------|-----|----------|--------------------------------|----------------------------|
| ①    | 1   | VFP01221 | Brandstoffilter compl.         | Fuel filter assembly       |
| ②    | 1   | STM9451  | Brandstoffilter                | Fuel filter                |
| 3    | 1   | DM10691  | Verbinding                     | Junction                   |
| ④    | 1   | VFP01224 | mtr. Slang D.8x14 (L=0,50 mt.) | mt. Hose fuel (L=0.50 mt.) |
| ⑤    | 4   | HCS08    | Slangklem 10-16                | Clamp 10-16                |
| ⑥    | 2   | VFP01226 | Banjo bout M14X1,5             | Banjo bolt M14X1,5         |
| ⑦    | 4   | STM1062  | Koperring M14                  | Copper ring M14            |
| 8    | 2   | VFP01228 | Banjo oog M14                  | Eye connection M14         |
| 9    | 1   | DM80031  | Steun                          | Support                    |
| 10   | 2   | VFP01074 | Bout M8x1,25x30                | Bolt M8x1.25x30            |
| 11   | 2   | VFP01057 | Ring M8                        | Washer M8                  |
| 12   | 2   | DM80034  | Ring M8                        | Washer M8                  |
| 13   | 1   | DM80035  | Bout M6X20                     | Bolt M6X20                 |
| ⑭    | 1   | VFP01223 | Sensor                         | Electrical actuator        |
| 15   | 1   | DM80036  | Ring M6                        | Washer M6                  |
| ⑮    | 1   | VP000087 | Slang                          | Silicon or rubber pipe     |
| ⑰    | 1   | VFP01237 | Brandstofpomp lage-druk        | Fuel pump low pressure     |

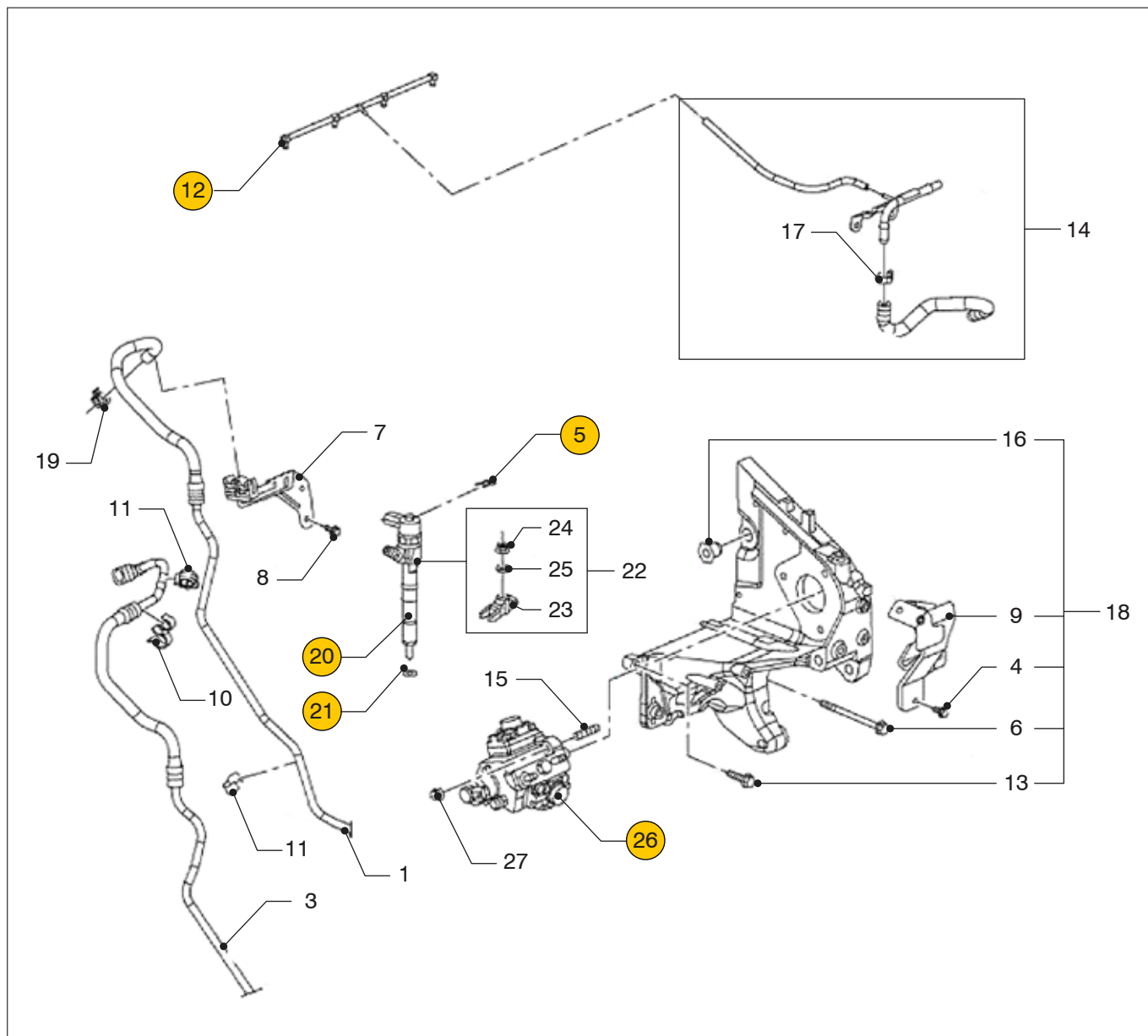


**VF4.145 VF4.200**  
**VF4.180**

**Brandstofffilter**

**Fuel filter**

| pos. | qty | part     | benaming         | description     |
|------|-----|----------|------------------|-----------------|
| 18   | 1   | VFP01238 | Steun            | Support         |
| 19   | 1   | VFP01239 | Steun            | Support         |
| 20   | 4   | VFP01240 | Rubberen pakking | Rubber gasket   |
| 21   | 1   | VFP01241 | Bus              | Bush            |
| 22   | 1   | VFP01545 | Bout M8x1,25x70  | Bolt M8x1.25x70 |
| 23   | 1   | VFP01057 | Ring M8          | Washer M8       |
| 24   | 1   | VFP01768 | Ring M8x20x3     | Washer M8x20x3  |
| 25   | 1   | VP000406 | Speciale bout    | Special bolt    |
| 26   | 1   | VFP01279 | Draadeind        | Stud            |
| 27   | 3   | VP000033 | Bout M6x16       | Bolt M6x16      |
| 28   | 3   | VFP01055 | Ring M6          | Washer M6       |
| 29   | 1   | VP000407 | Plug             | Plug            |
| 30   | 1   | VP000405 | O-ring           | O-ring          |

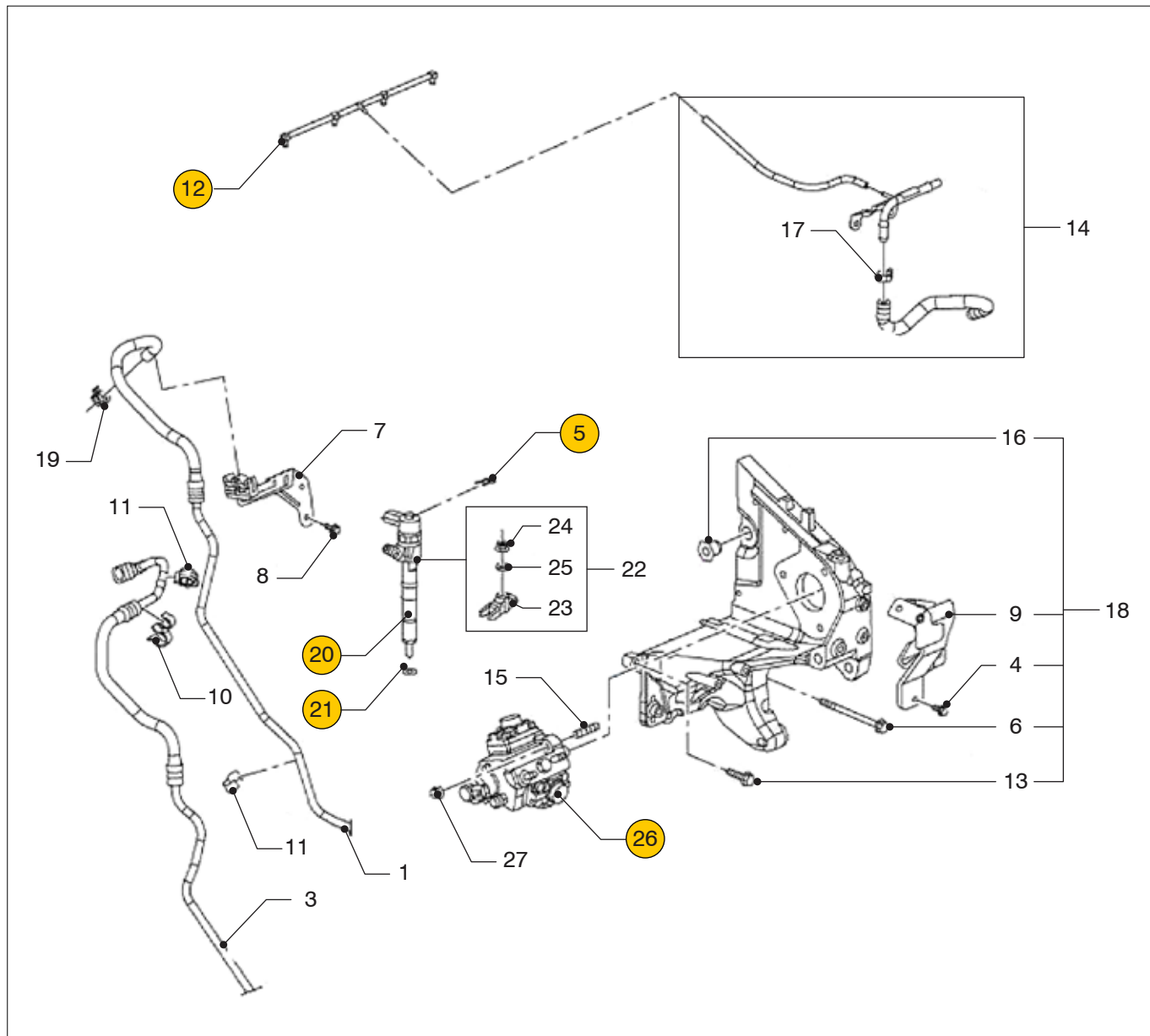


VF4.145 VF4.200  
VF4.180

# Brandstofinjectionstelsysteem, leidingen

# Fuel injection system, pipes

| pos. | qty | part     | benaming                        | description          |
|------|-----|----------|---------------------------------|----------------------|
| 1    | 1   | DM10681  | Brandstofleiding                | Flexible pipe        |
| 3    | 1   | DM10682  | Brandstofleiding                | Flexible pipe        |
| 4    | 2   | DM80045  | Bout M6 X 18                    | Bolt M6 X 18         |
| 5    | 1   | VP000412 | Lekleiding clip                 | Clip                 |
| 6    | 2   | DM80047  | Bout M8X110                     | Bolt M8X110          |
| 7    | 1   | DM80048  | Steun                           | Support              |
| 8    | 2   | DM80049  | Bout M6 X 13                    | Bolt M6 X 13         |
| 9    | 1   | DM80050  | Beugel                          | Plate                |
| 10   | 1   | DM80051  | Klem voor leiding               | Clamp for pipe       |
| 11   | 1   | DM80052  | Slangklem                       | Clamp                |
| 12   | 1   | VFP01192 | Brandstof lekleiding            | Fuel overflow line   |
| 13   | 3   | DM80053  | Bout M8 X 35                    | Bolt M8 X 35         |
| 14   | 1   | DM10684  | Pijp                            | Assembled rigid pipe |
| 15   | 3   | DM80054  | Tapeind M8                      | Stud M8              |
| 16   | 1   | DM80055  | Bus                             | Bush                 |
| 17   | 1   | DM80056  | Slangklem                       | Hose clamp           |
| 18   | 1   | DM80057  | Plaat voor montage injectiepomp | Complete plate       |

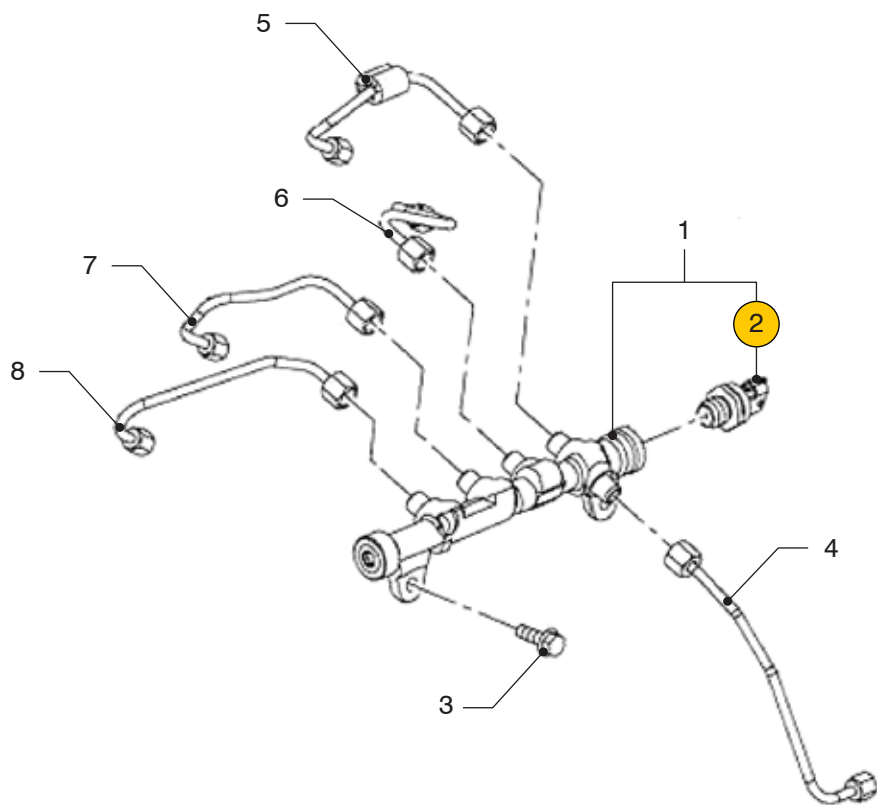


VF4.145 VF4.200  
VF4.180

# Brandstofinjectionstelsysteem, leidingen

# Fuel injection system, pipes

| pos. | qty | part     | benaming                | description    |
|------|-----|----------|-------------------------|----------------|
| 19   | 1   | DM10705  | Slangklem               | Clamp          |
| 20   | 4   | VP000109 | Verstuiver              | Injector       |
| 21   | 4   | VFP01187 | Koperring               | Copper ring    |
| 23   | 4   | DM80058  | Verstuiverklem          | Support        |
| 24   | 4   | VFP01097 | Moer M8                 | Nut M8         |
| 25   | 4   | DM80059  | Ring M8                 | Washer M8      |
| 26   | 1   | VP000384 | Brandstofinjectiontpomp | Injection pump |
| 27   | 3   | DM80060  | Moer M8                 | Nut M8         |



**VF4.145 VF4.200**  
**VF4.180**

### Brandstof injectie systeem

### Fuel injection distribution

| pos. | qty | part     | benaming         | description          |
|------|-----|----------|------------------|----------------------|
| 1    | 1   | DM10686  | Pijp             | Assembled rigid pipe |
| 2    | 1   | VP000385 | Sender           | Sender/actuator      |
| 3    | 2   | DM80061  | Bout M8 X 25     | Bolt M8 X 25         |
| 4    | 1   | DM80062  | Brandstofleiding | Fuel pipe            |
| 5    | 1   | DM80063  | Brandstofleiding | Fuel pipe            |
| 6    | 1   | DM80064  | Brandstofleiding | Fuel pipe            |
| 7    | 1   | DM80065  | Brandstofleiding | Fuel pipe            |
| 8    | 1   | DM80066  | Brandstofleiding | Fuel pipe            |

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| DM10025        | 2-2          | 3    | DM10110        | 2-6          | 13   | DM10217        | 2-11         | 18   | DM10369        | 2-23         | 17   |
| DM10027        | 2-2          | 5    | DM10111        | 2-6          | 14   | DM10250        | 2-12         | 1    | DM10372        | 2-24         | 20   |
| DM10028        | 2-2          | 6    | DM10112        | 2-6          | 15   | DM10252        | 2-12         | 3    | DM10373        | 2-24         | 21   |
| DM10030        | 2-2          | 8    | DM10114        | 2-6          | 17   | DM10255        | 2-12         | 6    | DM10375        | 2-24         | 22   |
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| DM10042        | 2-26         | 1    | DM10120        | 2-7          | 24   | DM10301        | 2-13         | 2    | DM10407        | 2-25         | 7    |
| DM10046        | 2-2          | 9    | DM10122        | 2-7          | 26   | DM10304        | 2-13         | 5    | DM10408        | 2-25         | 8    |
| DM10047        | 2-2          | 10   | DM10123        | 2-7          | 27   | DM10306        | 2-13         | 7    | DM10412        | 2-25         | 12   |
| DM10048        | 2-2          | 11   | DM10124        | 2-8          | 1    | DM10307        | 2-13         | 8    | DM10413        | 2-25         | 13   |
| DM10049        | 2-2          | 12   | DM10127        | 2-8          | 4    | DM10308        | 2-13         | 9    | DM10414        | 2-25         | 14   |
| DM10050        | 2-2          | 13   | DM10128        | 2-8          | 5    | DM10309        | 2-13         | 10   | DM10450        | 2-27         | 1    |
| DM10051        | 2-2          | 14   | DM10129        | 2-8          | 6    | DM10311        | 2-13         | 12   | DM10450        | 6-2          | 20   |
| DM10052        | 2-2          | 15   | DM10130        | 2-8          | 7    | DM10312        | 2-13         | 13   | DM10451        | 2-27         | 2    |
| DM10053        | 2-2          | 16   | DM10131        | 2-8          | 8    | DM10313        | 2-13         | 14   | DM10453        | 2-27         | 4    |
| DM10054        | 2-2          | 17   | DM10133        | 2-8          | 10   | DM10319        | 2-14         | 20   | DM10454        | 6-2          | 21   |
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| DM10056        | 2-2          | 19   | DM10135        | 2-8          | 12   | DM10321        | 2-14         | 22   | DM10458        | 2-27         | 9    |
| DM10058        | 2-3          | 21   | DM10136        | 2-8          | 13   | DM10324        | 2-14         | 25   | DM10459        | 2-27         | 10   |
| DM10059        | 2-3          | 22   | DM10137        | 2-8          | 14   | DM10327        | 2-14         | 28   | DM10460        | 2-27         | 11   |
| DM10062        | 2-3          | 25   | DM10138        | 2-8          | 15   | DM10328        | 2-14         | 29   | DM10463        | 2-27         | 14   |
| DM10065        | 2-3          | 28   | DM10139        | 2-8          | 16   | DM10329        | 2-14         | 30   | DM10464        | 2-27         | 15   |
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| DM10070        | 2-3          | 33   | DM10144        | 2-8          | 21   | DM10336        | 2-17         | 4    | DM10479        | 2-28         | 5    |
| DM10071        | 2-3          | 34   | DM10145        | 2-8          | 22   | DM10337        | 2-17         | 6    | DM10480        | 2-28         | 6    |
| DM10072        | 2-3          | 36   | DM10146        | 2-8          | 23   | DM10339        | 2-18         | 2    | DM10481        | 2-28         | 7    |
| DM10073        | 2-3          | 37   | DM10147        | 2-8          | 24   | DM10340        | 2-18         | 4    | DM10492        | 2-30         | 4    |
| DM10080        | 2-4          | 1    | DM10156        | 2-10         | 5    | DM10341        | 2-18         | 5    | DM10494        | 2-30         | 6    |
| DM10081        | 2-4          | 2    | DM10157        | 2-10         | 6    | DM10342        | 2-18         | 6    | DM10498        | 2-30         | 14   |
| DM10082        | 2-4          | 3    | DM10158        | 3-1          | 5    | DM10343        | 2-18         | 7    | DM10550        | 3-1          | 1    |
| DM10090        | 2-4          | 11   | DM10165        | 2-6          | 2    | DM10344        | 2-16         | 8    | DM10551        | 3-1          | 2    |
| DM10092        | 2-4          | 13   | DM10203        | 2-11         | 13   | DM10344        | 2-18         | 8    | DM10552        | 3-1          | 3    |
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| DM10590        | 3-4          | 15   | DM10680        | 4-5          | 1    | DM80060        | 6-6          | 27   | VFP01006       | 6-2          | 18   |
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| DM10597        | 3-5          | 6    | DM10694        | 4-5          | 5    | DM80066        | 6-7          | 8    | VFP01028       | 2-13         | 3    |
| DM10599        | 3-5          | 8    | DM10694        | 4-6          | 3    | HCS08          | 6-2          | 14   | VFP01029       | 2-23         | 5    |
| DM10601        | 3-5          | 2    | DM10695        | 4-5          | 6    | HCS08          | 6-3          | 5    | VFP01051       | 2-30         | 1    |
| DM10605        | 3-6          | 5    | DM10695        | 4-6          | 4    | HCS16          | 2-23         | 12   | VFP01051       | 5-1          | 12   |
| DM10607        | 3-6          | 7    | DM10697        | 4-5          | 8    | HCS16          | 3-7          | 12   | VFP01055       | 2-7          | 21   |
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| DM10612        | 3-6          | 20   | DM10698        | 4-5          | 9    | HCS25          | 2-23         | 18   | VFP01057       | 2-15         | 4    |
| DM10613        | 3-7          | 3    | DM10698        | 4-6          | 7    | HCS25          | 3-7          | 11   | VFP01057       | 2-15         | 6    |
| DM10618        | 3-8          | 1    | DM10703        | 6-1          | 9    | HCS25          | 3-10         | 9    | VFP01057       | 2-16         | 4    |
| DM10619        | 3-8          | 2    | DM10705        | 3-5          | 9    | HCS25          | 3-10         | 14   | VFP01057       | 2-17         | 5    |
| DM10620        | 3-8          | 3    | DM10705        | 6-6          | 19   | HCS50          | 2-30         | 13   | VFP01057       | 2-27         | 13   |
| DM10624        | 3-8          | 7    | DM10706        | 3-5          | 10   | R062R          | 2-21         | 10   | VFP01057       | 3-6          | 8    |
| DM10627        | 3-8          | 10   | DM10707        | 3-9          | 23   | R062R          | 2-21         | 12   | VFP01057       | 4-3          | 4    |
| DM10628        | 3-8          | 11   | DM10708        | 3-9          | 24   | R062R          | 2-21         | 17   | VFP01057       | 5-2          | 15   |
| DM10629        | 3-8          | 12   | DM10710        | 4-6          | 10   | R062R          | 2-30         | 8    | VFP01057       | 5-4          | 19   |
| DM10631        | 3-8          | 14   | DM10711        | 4-6          | 11   | R062R          | 2-30         | 11   | VFP01057       | 6-3          | 11   |
| DM10632        | 3-8          | 15   | DM80023        | 5-1          | 7    | R062R          | 3-4          | 5    | VFP01057       | 6-4          | 23   |
| DM10635        | 3-8          | 18   | DM80024        | 5-6          | 4    | R062R          | 3-6          | 9    | VFP01067       | 2-15         | 1    |
| DM10636        | 3-9          | 19   | DM80025        | 5-6          | 5    | R062R          | 3-10         | 4    | VFP01067       | 5-6          | 17   |
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| VFP01623       | 5-5          | 7    | VP000038       | 4-5          | 10   | VP000312       | 2-8          | 2    | VP000377       | 3-6          | 21   |
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| VFP01627       | 5-4          | 1    | VP000072       | 2-24         | 24   | VP000316       | 2-9          | 5    | VP000389       | 2-17         | 1    |
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| VFP01630       | 5-4          | 4    | VP000072       | 6-1          | 10   | VP000318       | 2-10         | 2    | VP000390       | 2-23         | 8    |
| VFP01631       | 5-4          | 5    | VP000073       | 6-1          | 12   | VP000319       | 2-12         | 4    | VP000391       | 2-23         | 14   |
| VFP01632       | 5-4          | 6    | VP000087       | 6-3          | 16   | VP000320       | 2-12         | 2    | VP000392       | 3-8          | 4    |
| VFP01633       | 5-4          | 7    | VP000088       | 2-3          | 23   | VP000321       | 2-14         | 23   | VP000394       | 2-27         | 3    |
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| VFP01658       | 5-6          | 1    | VP000099       | 2-8          | 9    | VP000337       | 2-28         | 2    | VP000405       | 6-4          | 30   |
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| VFP01684       | 5-7          | 8    | VP000106       | 2-13         | 17   | VP000351       | 3-10         | 15   |                |              |      |
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| VFP01768       | 6-4          | 24   | VP000108       | 2-14         | 24   | VP000356       | 3-7          | 13   |                |              |      |
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| VFP01775       | 2-30         | 5    | VP000301       | 2-2          | 7    | VP000363       | 5-5          | 1    |                |              |      |
| VFP01791       | 2-24         | 19   | VP000302       | 2-3          | 26   | VP000363       | 5-7          | 1    |                |              |      |
| VFP01791       | 3-7          | 10   | VP000302       | 2-20         | 3    | VP000366       | 2-4          | 5    |                |              |      |
| VFP01795       | 2-23         | 10   | VP000303       | 2-4          | 8    | VP000366       | 2-4          | 6    |                |              |      |
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